

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

F1_R2

NTP Study Number: C20303
Lock Date: 05/09/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_004
PWG Approval Date: NONE

Experiment Number: 20303 - 05
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Date Report Requested: 12/12/2011
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First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 677

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|-------------------------|------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | Peripheral Nerve | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | Spinal Cord | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|-------------------|------------------|
| * Adrenal Cortex | | Adenoma | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Skin | | Trichoepithelioma | |
| | [Trichoepithelioma TGLs = 1-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
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 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-9] | | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| [Carcinoma TGLs = 1-3] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 1-3] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-14] | | | |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 4-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 514

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | |
|----------------------------------|----------------------------------|------------------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Mild |
| * Liver | Clear Cell Focus | |
| | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 2-14] | | |
| * Pancreas | Atrophy | Mild |
| * Pituitary Gland | Hyperplasia | Moderate |
| * Preputial Gland | Carcinoma | |
| [Carcinoma TGLs = 1-15] | | |
| * Spleen | Hematopoietic Cell Proliferation | Mild |
| * Testes | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 712

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--|------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Mild |
| | [Thrombosis TGLs = 3-6] | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8,9-6+18] | | |
| * Lung | | Leukemia Mononuclear | |
| | Lymph Node | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-21] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 10-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
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Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 712

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53524

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------|---------------------------------------|---------------------------|---------|
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14+15+16] | | |
| * Spleen | | Fibrosis | Mild |
| | [Fibrosis TGLs = 7-21] | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-21] | | |
| * Testes | | Bilateral, Interstit Cell | Adenoma |
| | [Adenoma TGLs = 4-9] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------------|----------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Marked |
| [Adenoma TGLs = 3-9] | | | |
| [Atrophy TGLs = 2-9] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Prostate | | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2,3-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|----------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Eye | Retina | Atrophy | Moderate |
| | Cornea | Cataract | Moderate |
| | [Inflammation TGLs = 1-13] | Inflammation | Chronic Active, Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Leukemia Mononuclear TGLs = 2-6] | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Intermed | Angiectasis | Mild |
| | [Angiectasis TGLs = 4-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 3-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------------------|----------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 5-16] | | | |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Hyperplasia | Mild |
| * Skin | | Basal Cell Carcinoma | |
| [Basal Cell Carcinoma TGLs = 1-14] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 4-9] | | | |

PRIMARY CAUSE OF DEATH - Skin Basal Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|---------------------------|-------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-14] | | | |
| * Pancreas | | Basophilic Focus | |
| | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | | Squamous Cell Papilloma | |
| [Squamous Cell Papilloma TGLs = 2-15] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 3-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 686

DOSE: Control

DISP: Natural Death

HISTO: 53530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|---------------------|------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Seminal Vesicle | | |

OBSERVATIONS

| | | | |
|--------------------------|---|---|---------------|
| * Adrenal Medulla | | Pheochromocytoma Benign Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 1-7] | | |
| * Heart | | Cardiomyopathy | Moderate |
| * Intestine Large, Cecum | | Inflammation | Acute, Marked |
| | | Necrosis | Moderate |
| | [Inflammation TGLs = 4-16] | | |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| * Pancreas | | Atrophy | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Hyperplasia | Mild |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Marked |
| | [Adenoma TGLs = 3-16] | | |
| | [Atrophy TGLs = 2-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 686

DOSE: Control

DISP: Natural Death

HISTO: 53530

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 719

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

- | | | | |
|---------------------------|---|----------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 4-7] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mediastinal | | Ectasia | Mild |
| | [Ectasia TGLs = 2-3] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-14] | | |
| * Testes | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Skin | | Hyperplasia | Squamous, Minimal |
| | | Inflammation | Chronic Active, Marked |
| | [Hyperplasia TGLs = 5-15] | | |
| | [Inflammation TGLs = 3,4-14+15] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 669

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Liver | * Lymph Node, Mesenteric | * Mammary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|----------------|-----------------|
| Blood Vessel | Aorta | Mineralization | Moderate |
| * Eye | Cornea | Inflammation | Acute, Moderate |
| * Heart | | Mineralization | Moderate |
| [Mineralization TGLs = 3-6] | | | |
| * Kidney | | Mineralization | Moderate |
| [Nephropathy TGLs = 5-7] | | Nephropathy | Marked |
| * Lung | | Mineralization | Moderate |
| * Nose | | Inflammation | Acute, Moderate |
| * Pancreas | | Atrophy | Mild |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 4-10] | | | |
| * Stomach, Forestomach | | Mineralization | Moderate |
| * Stomach, Glandular | | Mineralization | Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 6-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
| * Thymus | | | |

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|------------------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Alveolar Epith | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Thrombosis | Mild |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Angiectasis | Mild |
| | [Adenoma TGLs = 2-10] | | |
| | [Angiectasis TGLs = 1-10] | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53534

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 3,4,5-14]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------|---|---------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 4-7] | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 1-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-15] | | |
| * Nose | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 5-16] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------------|----------------|------------------|------------------|
| * Adrenal Cortex | | Adenoma | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2,3-14+15] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Hemorrhage | Mild |
| [Adenoma TGLs = 1-9] | | | |
| [Hemorrhage TGLs = 5-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 367

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Liver | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------|---|----------------|-------------------|
| * Bone | | Osteosarcoma | |
| | [Osteosarcoma TGLs = 5-14+20+22] | | |
| * Heart | | Cardiomyopathy | Minimal |
| | Pericardium | Osteosarcoma | Metastatic (Bone) |
| | [Osteosarcoma TGLs = 3-15] | | |
| * Kidney | | Nephropathy | Minimal |
| * Lung | | Osteosarcoma | Metastatic (Bone) |
| | [Osteosarcoma TGLs = 4,8,10,6,7,9-4+5+17+16+18] | | |
| * Lymph Node, Bronchial | | Osteosarcoma | Metastatic (Bone) |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| Skeletal Muscle | | Osteosarcoma | Metastatic (Bone) |
| | [Osteosarcoma TGLs = 2-21] | | |
| * Testes | Interstit Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------------|---------------------------|------------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma | TGLs = 4-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 1-15] | | | |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-9] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: Control

DISP: Natural Death

HISTO: 53540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|---------------------|------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Nose |
| * Seminal Vesicle | | | |

OBSERVATIONS

| | | | |
|-------------------|-------------------------------|------------------|------------------|
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 5-7+14] | | |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-15] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|----------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Prostate | | Hyperplasia | Minimal |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-14] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 5-9] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | [Adenoma TGLs = 1-3] | | |
| Tooth | | Dysplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 676

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|------------------------|-------------------------------|----------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Lung | Mediastinum | Inflammation | Granulomatous, Moderate |
| | [Inflammation TGLs = 1-4+5] | | |
| | Mesentery | Inflammation | Chronic Active, Mild |
| | [Inflammation TGLs = 2-14] | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Testes | Interstit Cell | Hyperplasia | Minimal |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 675

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Liver | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | Peripheral Nerve |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| Spinal Cord | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone | | Osteoma | |
| | [Osteoma TGLs = 4-17] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Lung | | Foreign Body Inflammation | Chronic Active, Marked |
| | [Inflammation TGLs = 1,2-5+4] | | |
| * Nose | | Foreign Body Inflammation | Acute, Minimal |
| * Pancreas | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 3-14+15] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 5-9] | | |

PRIMARY CAUSE OF DEATH - Lung Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 492

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|----------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| * Pancreas | | Atrophy | Minimal |
| * Preputial Gland | | Carcinoma | |
| | [Carcinoma TGLs = 2-14+15] | | |
| * Skin | | Inflammation | Chronic Active, Marked |
| | [Inflammation TGLs = 1-14+15] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Interstit Cell | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 551

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mandibular |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|---------------------------|-----------------|
| * Lymph Node, Mediastinal | * Mammary Gland |
|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-----------------------------|--------------------------------------|----------------------|---------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 551

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53545

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------------|-------------|---------|
| * Stomach, Forestomach [Ulcer TGLs = 7-15] | | Ulcer | Marked |
| * Testes [Adenoma TGLs = 5-9] | Interstit Cell | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|-----------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland | * Thymus |
|-------------------------|--------------------------|-----------------|----------|

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2,3-15+14] | | | |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 1,5-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 635

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------------|---------------|----------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Stomach, Forestomach | | Ulcer | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------|-------------------------------------|---------------------------|--------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-3] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-23] | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | Leukemia Mononuclear | |
| * Skin | | Cyst Epithelial Inclusion | |
| | | Squamous Cell Papilloma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53548

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst Epithelial Inclusion TGLs = 2-22]

[Squamous Cell Papilloma TGLs = 1-24]

* Spleen

Leukemia Mononuclear

* Testes

Atrophy

Moderate

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Carcinoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Marked |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-15] | | |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Prostate | | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53549

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|------------------------|----------------------|------|
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Mild |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-4+5] | | |
| | Lymph Node Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-14] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Moderate |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53550

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-9]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| Skeletal Muscle | | Lipoma | |
| | [Lipoma TGLs = 1-14+15] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53551

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|--|---------------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Bone Marrow | | Hyperplasia | Reticulum Cell, Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Skin | | Cyst Epithelial Inclusion | Moderate |
| | [Cyst Epithelial Inclusion TGLs = 1-7] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2,4-9] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 564

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

| | | | |
|--------------------------|---|----------------------------|------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLs = 4-6] | | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-4+5] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-16] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 564

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53553

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------------|--------------------------------------|------------------------------------|
| * Lymph Node, Mesenteric Mesentery [Inflammation TGLs = 8-17] | | Leukemia Mononuclear Inflammation | Chronic Active, Mild |
| * Nose | Respirat Epith | Hyperplasia Inflammation | Minimal Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen [Leukemia Mononuclear TGLs = 5-15] | | Leukemia Mononuclear | |
| * Testes [Adenoma TGLs = 7-9] | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 698

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------------|----------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-4+5] | | |
| | Lymph Node | Pancreatic | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | | Thrombosis | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 698

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53554

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|-------------------|
| * Prostate | | Inflammation | Suppurative, Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-14] | | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| | [Ulcer TGLs = 7,9-10+15] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 6-9] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 614

DOSE: Control

DISP: Natural Death

HISTO: 53555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------|-------------------------|--------------------------|
| * Bone | * Epididymis | * Esophagus | * Harderian Gland |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Eye |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Stomach, Glandular | * Urinary Bladder |

OBSERVATIONS

| | | | |
|--------------------------|---------------|------------------------------|----------|
| * Brain | | Hemorrhage | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-14] | | | |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------------------|----------------|------------------|----------|
| * Adrenal Cortex | | Adenoma | |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| [Cardiomyopathy TGLs = 1-6] | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Marked |
| [Adenoma TGLs = 2-14] | | | |
| [Atrophy TGLs = 3-14] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|------------------|----------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Nose | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Spleen | | Hyperplasia | Stromal, Moderate |
| | [Hyperplasia TGLs = 2-6] | | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |

Animal Note: TGL 3 = NCL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Eye | Retina | Atrophy | Marked |
| | | Cataract | Marked |
| | [Cataract TGLs = 1-13] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 6-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53558

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---|---|------------------------------|
| * Nose | Respirat Epith | Foreign Body Hyperplasia Inflammation | Mild Chronic Active, Mild |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Angiectasis Leukemia Mononuclear | Mild |
| | [Angiectasis TGLs = 7-10] | | |
| * Prostate | | Hyperplasia | Mild |
| * Skin | [Squamous Cell Papilloma TGLs = 2-14] | Squamous Cell Papilloma | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Testes | Interstit Cell | Adenoma Atrophy | Moderate |
| | [Adenoma TGLs = 4-9] | | |
| * Thymus | | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------------------------|---------------------------|-------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Eye | | Cataract | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14+15+16] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4,5-7+6] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Preputial Gland | | Adenoma | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 2-22] | | |
| * Testes | | Atrophy | Marked |
| | [Atrophy TGLs = 1-9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 645

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------------|----------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Testes | Interstit Cell | Hyperplasia | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: Control

DISP: Natural Death

HISTO: 53562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------------|------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Mesenchymal Tumor Malignant | |
| | | Nephropathy | Mild |
| | [Mesenchymal Tumor Malignant TGLs = 4-15+16+17] | | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-20] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 6-19] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: Control

DISP: Natural Death

HISTO: 53562

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|---------|
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-14] | | |
| * Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Kidney Mesenchymal Tumor Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 1-10] | | |
| * Testes | Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--|-------------------------|------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Eosinophilic Focus TGLs = 9,11,10,12-6+16+15] | | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-8] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 7-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53564

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|------|
| * Nose | | Leukemia Mononuclear | |
| | | Thrombosis | Mild |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 2-10] | | |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 4,5-15+16] | | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Carcinoma | |
| | [Carcinoma TGLs = 1-3] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: TGL 13 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 670

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-15] | | |
| * Nose | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 1-10] | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 670

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53565

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 2-14]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | [Nephropathy TGLs = 3-7] | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53566

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------------------|-------------|---------|
| [Fibrosis TGLs = 1-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|-------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | [Inflammation TGLs = 3-5] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | | Basal Cell Adenoma | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 562

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | |
|----------------------------|--|-------------------|
| * Adrenal Cortex | Mesothelioma Malignant | |
| * Adrenal Medulla | Hyperplasia | Moderate |
| * Epididymis | Mesothelioma Malignant | |
| * Heart | Cardiomyopathy | Mild |
| | Thrombosis | Marked |
| * Intestine Small, Ileum | Mesothelioma Malignant | |
| * Intestine Small, Jejunum | Mesothelioma Malignant | |
| * Kidney | Mesothelioma Malignant | |
| | Nephropathy | Mild |
| * Liver | Necrosis | Mild |
| | [Necrosis TGLs = 6-6] | |
| * Lung | Thrombosis | Mild |
| Mesentery | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 2-15] | |
| * Nose | Thrombosis | Moderate |
| * Pancreas | Mesothelioma Malignant | |
| * Pituitary Gland | Adenoma | |
| * Prostate | Inflammation | Suppurative, Mild |
| | Mesothelioma Malignant | |
| * Seminal Vesicle | Mesothelioma Malignant | |
| Skeletal Muscle | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 562

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53568

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------------|----------------------------------|----------|
| [Mesothelioma Malignant TGLs = 7,8-16+17] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Mesothelioma Malignant | |
| * Stomach, Forestomach | | Mesothelioma Malignant | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| | | Mesothelioma Malignant | |
| [Adenoma TGLs = 4-9] | | | |
| [Atrophy TGLs = 3-9] | | | |
| [Mesothelioma Malignant TGLs = 5-18] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Testes Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
| * Thymus | | | |

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|----------------|--------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Stomach, Forestomach | | Inflammation | Chronic Active, Moderate |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2-9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|---|---|---|
| * Adrenal Cortex | | Leukemia Mononuclear Necrosis | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear Nephropathy | Mild |
| * Liver | Bile Duct | Fatty Change Hyperplasia Leukemia Mononuclear | Diffuse, Mild Minimal |
| [Leukemia Mononuclear | TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Renal | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 4-15] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 5-16] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate Turbinate Olfactory Epi | Atrophy Hyperostosis Metaplasia | Moderate Moderate Respiratory, Mild |
| * Pancreas | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Suppurative, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53820

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|-------------------|
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Minimal |
| | | Ulcer | Marked |
| | [Hyperplasia TGLs = 6-10] | | |
| | [Ulcer TGLs = 6-16] | | |
| * Testes | | Adenoma | |
| | Interstit Cell | | |
| | [Adenoma TGLs = 1-9] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | Lymph Node Renal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-16] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-8] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53821

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Leukemia Mononuclear TGLs = 2,3-14]

Leukemia Mononuclear

* Testes

[Hemorrhage TGLs = 4-9]

Hemorrhage

Minimal

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLs = 1-9]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|---------------------|------------------------|----------------------|
| * Bone | * Epididymis | * Esophagus | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53823

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------|------------------------------------|-----------------------|
| * Pancreas | Olfactory Epi | Leukemia Mononuclear Metaplasia | Respiratory, Moderate |
| * Pituitary Gland [Adenoma TGLs = 6-10] | Pars Distalis | Leukemia Mononuclear Adenoma | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Spleen [Leukemia Mononuclear TGLs = 3,4-14] | | Leukemia Mononuclear | |
| * Testes | | Atrophy | Marked |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 543

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------|-------------------|--------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Thymus | * Thyroid Gland | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone Marrow | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Pituitary Gland | * Trachea | | |

OBSERVATIONS

| | | | |
|------------------------|--|------------------------|----------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 6-6] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| | | Thrombosis | Marked |
| * Prostate | | Mesothelioma Malignant | |
| * Spleen | | Mesothelioma Malignant | |
| * Stomach, Forestomach | | Mesothelioma Malignant | |
| * Stomach, Glandular | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 543

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53824

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

[Adenoma TGLs = 4,5-9]

[Mesothelioma Malignant TGLs = 2-15]

* Urinary Bladder

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

- Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 355

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------------------|---------------|---|---|
| * Kidney | | Hydronephrosis Inflammation Nephropathy | Moderate Suppurative, Mild Moderate |
| [Hydronephrosis TGLs = 3-7] | | | |
| * Liver | | Carcinoma | Metastatic (Urinary Bladder) |
| [Carcinoma TGLs = 4-14] | | | |
| * Lung | | Carcinoma | Metastatic (Urinary Bladder) |
| Mesentery | | Carcinoma | Metastatic (Urinary Bladder) |
| [Carcinoma TGLs = 2-17] | | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Moderate |
| | | Carcinoma | Metastatic (Urinary Bladder) |
| [Carcinoma TGLs = 7-6] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Prostate | | Carcinoma | Metastatic (Urinary Bladder) |
| * Seminal Vesicle | | Carcinoma | Metastatic (Urinary Bladder) |
| Skeletal Muscle | | Carcinoma | Metastatic (Urinary Bladder) |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 355

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53825

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLs = 6-18]

* Testes

Interstit Cell

Hyperplasia

Minimal

Hyperplasia

Mesothelium, Minimal

* Urinary Bladder

Transit Epithe

Carcinoma

[Carcinoma TGLs = 5-10+15+16]

PRIMARY CAUSE OF DEATH

- Urinary Bladder Transit Epithe Carcinoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|----------------------|----------------------------|---------------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| | | Hyperplasia | Marked |
| | [Carcinoma TGLs = 4-14] | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 1-4] | | |
| * Nose | | Atrophy | Mild |
| | | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | | Metaplasia | Respiratory, Moderate |
| | [Adenoma TGLs = 2-10] | Adenoma | |
| * Testes | | Bilateral, Interstit Cell | |
| | [Adenoma TGLs = 3,5-9] | | |
| * Thyroid Gland | | C Cell | |
| | | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|------------------|---------------------------|--------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLs = 2-9]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|--------------------------------|-------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 2-14] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-15] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 211

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------|------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 2-4] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|--------------------------------------|----------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Brain | [Histiocytic Sarcoma TGLs = 5-1] | Histiocytic Sarcoma | |
| * Heart | | Histiocytic Sarcoma | |
| * Kidney | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 6-7] | Nephropathy | Mild |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 4-6] | | |
| * Lung | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 2-4+5] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 7-10] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53830

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | | |
|-----------------|--|----------------|--------------------|---------|
| * Testes | [Hematopoietic Cell Proliferation TGLs = 3-14] [Adenoma TGLs = 1-9] | Interstit Cell | Adenoma Atrophy | Marked |
| * Thyroid Gland | | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Brain Histiocytic Sarcoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 213

TRT#: 3

SEX: Male

DAY ON TEST: 548

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|-----------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland | * Thymus |
|-------------------------|--------------------------|-----------------|----------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|------------------------|-------------------------|
| * Epididymis | | Granuloma Sperm | Moderate |
| [Granuloma Sperm TGLs = 4-9] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| [Basophilic Focus TGLs = 5-6] | | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Testes | | Atrophy | Marked |
| | | Mesothelioma Malignant | |
| [Atrophy TGLs = 2-9] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|-------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Marked |
| * Parathyroid Gland | | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53832

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------------------------------------|---------------------------|----------------------|
| * Pituitary Gland | Pars Distalis | Adenoma |
| * Skin | Subcut Tiss | Fibroma |
| [Fibroma TGLs = 1-14] | | |
| * Spleen | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLs = 3-16] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma |
| [Adenoma TGLs = 2-9] | | |
| * Thymus | | Leukemia Mononuclear |
| * Thyroid Gland | C Cell | Adenoma |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|----------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Eye | [Degeneration TGLs = 4-13] | Degeneration | Marked |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | [Nephropathy TGLs = 3-7] | Nephropathy | Marked |
| * Liver | | Angiectasis | Mild |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Skin | Subcut Tiss | Fibroma | |
| | | Hyperkeratosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53833

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------|---|-------------------------|----------|
| | [Fibroma TGLs = 1-15] | | |
| | [Hyperkeratosis TGLs = 2-16] | | |
| * Testes | | Atrophy | Moderate |
| | Arteriole | Inflammation | Moderate |
| | | Mesothelioma Malignant | |
| Tongue | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 6-14] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 216

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

INSUFFICIENT TISSUE

* Preputial Gland

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------|-------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 5-7] | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Clear Cell Focus TGLs = 4-6] | | |
| * Lung | | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 1-5] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 216

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53834

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------|---|---|
| * Pituitary Gland | Olfactory Epi Pars Distalis | Inflammation Metaplasia Hyperplasia | Chronic Active, Mild Respiratory, Mild Moderate |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma Atrophy | Marked |
| [Adenoma TGLs = 3-9] | | | |
| [Atrophy TGLs = 2-9] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Skin |
| * Thymus | * Thyroid Gland | * Trachea | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--|------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Necrosis | Minimal |
| | [Clear Cell Focus TGLs = 7-6] | | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 4-16] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53835

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--|---------------------------|------------------------|
| * Pituitary Gland | Pars Distalis | Adenoma |
| [Adenoma TGLs = 6-10] | | |
| * Prostate | | Mesothelioma Malignant |
| * Seminal Vesicle | | Mesothelioma Malignant |
| Skeletal Muscle | | Mesothelioma Malignant |
| [Mesothelioma Malignant TGLs = 2-14] | | |
| * Spleen | | Leukemia Mononuclear |
| * Stomach, Forestomach | | Mesothelioma Malignant |
| * Stomach, Glandular | | Mesothelioma Malignant |
| * Testes | Bilateral, Interstit Cell | Adenoma |
| | | Mesothelioma Malignant |
| [Adenoma TGLs = 8-17] | | |
| [Mesothelioma Malignant TGLs = 3-15] | | |
| * Urinary Bladder | | Mesothelioma Malignant |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 218

TRT#: 3

SEX: Male

DAY ON TEST: 711

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | Pericardium | Cardiomyopathy | Minimal |
| | [Mesothelioma Malignant TGLs = 4-21] | Mesothelioma Malignant | |
| * Kidney | Renal Tubule | Hyperplasia | Mild |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 5-18] | | |
| | [Inflammation TGLs = 6-6+18] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | [Mesothelioma Malignant TGLs = 11,12-5+4+17] | Mesothelioma Malignant | |
| * Mammary Gland | | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 1-14+15] | | |
| Mesentery | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 218

TRT#: 3

SEX: Male

DAY ON TEST: 711

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53836

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------|--|---------------------------|------------------------|
| | [Necrosis TGLs = 8-19] | | |
| * Nose | | Turbinate | Atrophy |
| | | Turbinate | Hyperostosis |
| | | Respirat Epith | Hyperplasia |
| | | | Inflammation |
| | | Olfactory Epi | Metaplasia |
| * Pituitary Gland | | Pars Distalis | Adenoma |
| | [Adenoma TGLs = 9-10] | | |
| Pleura | | | Mesothelioma Malignant |
| Skeletal Muscle | | | Mesothelioma Malignant |
| | [Mesothelioma Malignant TGLs = 3-20] | | |
| * Spleen | | | Mesothelioma Malignant |
| * Stomach, Forestomach | | | Ulcer |
| * Testes | | Bilateral, Interstit Cell | Adenoma |
| | | | Mesothelioma Malignant |
| | [Adenoma TGLs = 7-9] | | |
| * Urinary Bladder | | Transit Epithe | Carcinoma |
| | [Carcinoma TGLs = 13-10] | | |
| PRIMARY CAUSE OF DEATH | | - Pleura | Mesothelioma Malignant |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|----------------------|---|-------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 2-14] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 599

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|------------------------------|----------------|------------------------|-------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-7] | | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Stomach, Forestomach | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 599

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53838

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Mesothelioma Malignant

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|------------------------------|-------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Marked |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Degeneration TGLs = 3-15] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53839

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|---|---------------------------|----------------------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 5-10] | | |
| * Preputial Gland | | Hyperplasia | Mild |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-16] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Thymus | | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 222

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 1-6] | | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2,3-9] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|-------------------------|----------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Larynx | | Carcinoma | Metastatic (Thyroid Gland) |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Carcinoma | Metastatic (Thyroid Gland) |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-15] | | |
| Lymph Node | Pancreatic | | |
| | [Leukemia Mononuclear TGLs = 8-18] | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Carcinoma | Metastatic (Thyroid Gland) |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53841

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 7-14]

Leukemia Mononuclear

* Lymph Node, Mesenteric

Necrosis

Mesentery

Fat

Mild

[Necrosis TGLs = 6-17]

* Nose

Turbinates

Atrophy

Moderate

Turbinates

Hyperostosis

Mild

Olfactory Epi

Metaplasia

Respiratory, Moderate

Thrombosis

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 2-10]

* Prostate

Inflammation

Suppurative, Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 4-16]

* Testes

Mesothelioma Malignant

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLs = 1-3]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

AUTO PRECLUDES DIAG.

| | |
|--------------------------|----------------------------|
| * Intestine Large, Colon | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

| | | | |
|--------------------------|------------------------------------|-------------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| * Intestine Large, Cecum | | Inflammation | Acute, Moderate |
| * Kidney | Renal Tubule | Carcinoma | |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Marked |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 3-6] | | |
| * Lung | | Histiocytic Sarcoma | |
| * Lymph Node, Bronchial | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 1-3] | | |
| * Lymph Node, Mesenteric | | Histiocytic Sarcoma | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53842

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--------------------------|---|-------------------------------|
| * Pancreas | Olfactory Epi | Metaplasia Hyperplasia Mesothelioma Malignant | Respiratory, Moderate Mild |
| * Pituitary Gland [Adenoma TGLs = 4-10] | Pars Distalis | Adenoma | |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| * Spleen [Histiocytic Sarcoma TGLs = 2-14] | | Histiocytic Sarcoma Mesothelioma Malignant | |
| * Stomach, Glandular | | Mesothelioma Malignant | |
| * Testes | | Atrophy | Moderate |
| * Thyroid Gland | Interstit Cell C Cell | Hyperplasia Adenoma | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Histiocytic Sarcoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------|-------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53843

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------|--|---------------------------|----------|
| * Prostate | | Hyperplasia | Moderate |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 1-7] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Marked |
| | [Adenoma TGLs = 5-9] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 226

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|--|-------------------------|----------------------|
| * Adrenal Cortex | | Adenoma | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | [Squamous Cell Carcinoma TGLs = 3-5] | Squamous Cell Carcinoma | |
| * Nose | Turbinate | Atrophy | Mild |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Hyperplasia | Mild |
| * Salivary Glands | | Atrophy | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 226

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53844

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

[Adenoma TGLs = 1,4-9]

[Atrophy TGLs = 2-9]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 227

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mediastinal | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Larynx | | Inflammation | Chronic Active, Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-19] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 227

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53845

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------------------|---------------------------------------|---|
| * Pancreas | Olfactory Epi | Inflammation Metaplasia Atrophy | Chronic Active, Moderate Respiratory, Marked Mild |
| * Skin | Subcut Tiss | Hyperplasia Fibroma | Minimal |
| [Fibroma TGLs = 1-14+15] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 2-17] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 4-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 228

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|---------------------------------|---------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Hyperplasia | Mesothelium, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 3-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Hyperplasia | Minimal |
| [Adenoma TGLs = 2,4-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 228

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53846

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 229

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Small, Jejunum | | Sarcoma Stromal | |
| | [Sarcoma Stromal TGLs = 5-14] | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 6,7-5+14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-7] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 229

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53847

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------------------------|---------------------------|-----------|
| [Adenoma TGLs = 2-10] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma |
| [Adenoma TGLs = 4,8-9] | | |
| * Thyroid Gland | C Cell | Carcinoma |
| [Carcinoma TGLs = 1-3] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 230

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 2-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 1-4] | | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 3-9] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------------------------|----------------|------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 2,3-7+6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLs = 1-14] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53849

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Hyperplasia

Mild

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLs = 4-3]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 232

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|--------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Nose | [Hepatodiaphragmatic Nodule TGLs = 2-6] | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Turbinate | Hyperplasia | Minimal |
| | Respirat Epith | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Prostate | | Hyperplasia | Moderate |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 232

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53850

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 233

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|-------------------------|------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Degeneration | Cystic, Moderate |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-16] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 233

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53851

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------------|
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-14] | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| | [Adenoma TGLs = 3-9] | | |
| | [Atrophy TGLs = 4-9] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 234

TRT#: 3

SEX: Male

DAY ON TEST: 466

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|-------------------------------|-------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Inflammation | Chronic Active, Moderate |
| * Kidney | | Inflammation | Suppurative, Mild |
| | | Nephropathy | Moderate |
| | | Thrombosis | Moderate |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 4-6] | | |
| * Lung | | Inflammation | Acute, Marked |
| | | Thrombosis | Moderate |
| | [Inflammation TGLs = 2-4+5] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-7] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 234

TRT#: 3

SEX: Male

DAY ON TEST: 466

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53852

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|----------------|-------------|---------|
| * Spleen | | Necrosis | Mild |
| [Necrosis TGLs = 5-6] | | | |
| * Testes | Interstit Cell | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Heart Inflammation

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 235

TRT#: 3

SEX: Male

DAY ON TEST: 535

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------|--------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Islets, Pancreatic | * Kidney | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Thymus |
| * Thyroid Gland | * Trachea | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

| | | | |
|------------------|--|------------------------|-------------------|
| * Adrenal Cortex | | Adenoma | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 7-6] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-14] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | | Thrombosis | Marked |
| * Pancreas | | Mesothelioma Malignant | |
| Peritoneum | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 2,4,8-17+15+16] | | |
| * Prostate | | Inflammation | Suppurative, Mild |
| | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 235

TRT#: 3

SEX: Male

DAY ON TEST: 535

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53853

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------------------------|---------------------------|------------------------|
| * Seminal Vesicle | | Mesothelioma Malignant |
| * Spleen | | Mesothelioma Malignant |
| * Stomach, Forestomach | | Mesothelioma Malignant |
| * Stomach, Glandular | | Mesothelioma Malignant |
| * Testes | Bilateral, Interstit Cell | Adenoma |
| | | Mesothelioma Malignant |
| [Adenoma TGLs = 5,6-9] | | |
| * Urinary Bladder | | Mesothelioma Malignant |

PRIMARY CAUSE OF DEATH - Peritoneum Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 236

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|----------------------|--|-------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 6-6] | | |
| | [Clear Cell Focus TGLs = 6-6] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-16] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 236

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53854

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--------------------------------|-----------------------------------|-------------------|
| * Pituitary Gland | Olfactory Epi Pars Distalis | Metaplasia Adenoma | Respiratory, Mild |
| Skeletal Muscle | | Mesothelioma Malignant | |
| [Mesothelioma Malignant | TGLs = 2-14] | | |
| * Testes | Interstit Cell | Adenoma Mesothelioma Malignant | |
| [Adenoma | TGLs = 4-9] | | |
| [Mesothelioma Malignant | TGLs = 3-15] | | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 237

TRT#: 3

SEX: Male

DAY ON TEST: 294

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|--------------------------|---------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|-----------------------------|--------------------------|----------------------------|

OBSERVATIONS

| | | | |
|------------|---------------|----------------|-------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Minimal |
| * Skin | Subcut Tiss | Sarcoma | |

[Sarcoma TGLs = 1-14+15]

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------|---------------------------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Cyst | Mild |
| | | Nephropathy | Mild |
| | [Cyst TGLs = 6-16] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| * Lymph Node, Bronchial | | Ectasia | Moderate |
| | [Ectasia TGLs = 1-3] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53856

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|----------------|-------------|---------|
| * Prostate | | Hyperplasia | Mild |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 239

TRT#: 3

SEX: Male

DAY ON TEST: 661

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
| * Thymus | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|--------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Eye | Cornea | Inflammation | Acute, Mild |
| * Kidney | Renal Tubule | Carcinoma | |
| | | Nephropathy | Mild |
| | [Carcinoma TGLs = 3-14] | | |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 4-9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 239

TRT#: 3

SEX: Male

DAY ON TEST: 661

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53857

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Carcinoma

[Carcinoma TGLs = 1-15]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 240

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|-------------------------|------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 241

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|-----------|--|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | | [Eosinophilic Focus TGLs = 5,6,7,8,9,10-19+18+17+20+21+22] | |
| | | [Leukemia Mononuclear TGLs = 10-6] | |
| | | [Mixed Cell Focus TGLs = 10-22] | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 241

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53859

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | | |
|-------------------|--------------------------------------|---------------------------|----------------------|--------------------------|
| * Nose | [Necrosis TGLs = 3-18] | Turbinate | Atrophy | Moderate |
| | | Turbinate | Hyperostosis | Mild |
| | | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Preputial Gland | | Pars Distalis | Hyperplasia | Marked |
| | | | Carcinoma | |
| * Spleen | [Carcinoma TGLs = 1-14+15] | | Leukemia Mononuclear | |
| * Testes | [Leukemia Mononuclear TGLs = 2-17] | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 4-9] | | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 242

TRT#: 3

SEX: Male

DAY ON TEST: 607

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|-------------------|
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Minimal |
| * Skin | Subcut Tiss | Sarcoma | |
| | [Sarcoma TGLs = 1-14+15+16] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2-9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 242

TRT#: 3

SEX: Male

DAY ON TEST: 607

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53860

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 243

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|--------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Epididymis | | Hyperplasia | Mesothelium, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Eosinophilic Focus TGLs = 2-6] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Hyperplasia | Minimal |
| | | Hyperplasia | Mesothelium, Minimal |
| | [Adenoma TGLs = 1-9] | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 244

TRT#: 3

SEX: Male

DAY ON TEST: 492

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|------------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Moderate |
| | [Hemorrhage TGLs = 3-10] | | |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 2-14] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 245

TRT#: 3

SEX: Male

DAY ON TEST: 649

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|------------------------|--|----------------------------|--------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Necrosis | Moderate |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 3-14] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 4-7+14] | | |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Marked |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 246

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------|---------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Harderian Gland | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Moderate |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 246

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53864

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-9]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 247

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|----------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Cataract | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 247

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53865

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------------------------------------|---------------------------|----------------------|
| * Pituitary Gland | Pars Distalis | Leukemia Mononuclear |
| [Adenoma TGLs = 4-10] | | Adenoma |
| * Skin | | Keratoacanthoma |
| [Keratoacanthoma TGLs = 1-14] | | |
| * Spleen | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLs = 2-16] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma |
| [Adenoma TGLs = 3,5-9] | | |
| * Thymus | | Leukemia Mononuclear |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 248

TRT#: 3

SEX: Male

DAY ON TEST: 560

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- | | |
|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-4+5] | | |
| | Lymph Node Renal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-15] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 248

TRT#: 3

SEX: Male

DAY ON TEST: 560

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53866

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | | |
|-------------------|---|---------------------------|----------------------|-------------------|
| * Nose | [Leukemia Mononuclear TGLs = 7-17] | Turbinate | Atrophy | Mild |
| | | Turbinate | Hyperostosis | Mild |
| | | | Leukemia Mononuclear | |
| * Pituitary Gland | | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | | Leukemia Mononuclear | |
| * Testes | [Leukemia Mononuclear TGLs = 4,5-16+18] | Bilateral, Interstit Cell | Adenoma | |
| * Thymus | [Adenoma TGLs = 3,8-9] | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 249

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------------------|---------------------------|------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| [Clear Cell Focus TGLs = 1-6] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-7] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 3,4-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 250

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
| * Thymus | | | |

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

| | | | |
|----------------------|-------------------------------------|-------------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Epididymis | | Hyperplasia | Mesothelium, Minimal |
| * Harderian Gland | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Carcinoma | |
| | [Carcinoma TGLs = 4-14] | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 250

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53868

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--------------------------------------|----------------------|-----------------------|
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| Peritoneum | Mesothelium | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Stomach, Forestomach | | Ulcer | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------|--|------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 8-7] | | |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mesothelioma Malignant | |
| | | Necrosis | Minimal |
| | [Clear Cell Focus TGLs = 7-6] | | |
| | [Eosinophilic Focus TGLs = 7-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 2-3] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53719

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--|------------------------|------------------------|
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Mild |
| Peritoneum | Tunica Vaginal | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 4-14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-16] | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 3-9] | | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 705

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Esophagus | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------|---|----------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Granular Cell Tumor Benign | |
| | [Granular Cell Tumor Benign TGLs = 14-20] | | |
| * Epididymis | | Mesothelioma Malignant | |
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Cyst | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Cyst TGLs = 12-21] | | |
| | [Leukemia Mononuclear TGLs = 11-6+21] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 16-4+5] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Mesothelioma Malignant | |
| | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 705

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53720

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|-------------------------|-------------------------|
| | [Mesothelioma Malignant TGLs = 7-16] | | |
| | [Necrosis TGLs = 8-21] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | | Thrombosis | Mild |
| * Pancreas | | Atrophy | Moderate |
| | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 15-10] | | |
| * Prostate | | Hyperplasia | Mild |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-15] | | |
| * Skin | Subcut Tiss | Fibroma | |
| | | Squamous Cell Papilloma | |
| | [Fibroma TGLs = 13-17+18] | | |
| | [Squamous Cell Papilloma TGLs = 1-23] | | |
| * Spleen | | Leukemia Mononuclear | |
| | | Mesothelioma Malignant | |
| | | Necrosis | Moderate |
| | [Leukemia Mononuclear TGLs = 9-22] | | |
| | [Necrosis TGLs = 10-22] | | |
| * Stomach, Forestomach | | Ulcer | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 5-9] | | |
| | [Mesothelioma Malignant TGLs = 3,4-14+9] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 403

TRT#: 5

SEX: Male

DAY ON TEST: 603

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|-------------------|--------------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Intestine Large, Colon | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | |

MISSING

| | | | |
|-------------------------|--------------------------|-----------------|-------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland | * Preputial Gland |
|-------------------------|--------------------------|-----------------|-------------------|

AUTO PRECLUDES DIAG.

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone Marrow | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mediastinal | * Seminal Vesicle | * Thymus | * Urinary Bladder |

OBSERVATIONS

| | | | |
|-------------------|-------------------------|----------------|--------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Prostate | | Inflammation | Suppurative, Moderate |
| * Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 1 = NCL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 642

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|-------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-6] | | |
| Peritoneum | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | | |
| * Prostate | | Hyperplasia | Mild |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 2-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 642

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53722

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Mesothelioma Malignant

* Testes

Interstit Cell

Adenoma

Mesothelioma Malignant

[Adenoma TGLs = 3-9]

[Mesothelioma Malignant TGLs = 4-15]

PRIMARY CAUSE OF DEATH - Testes Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------------------------|-----------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland | * Parathyroid Gland |
| * Thymus | | | |

INSUFFICIENT TISSUE

| | |
|-------------------|-----------------|
| * Pituitary Gland | * Thyroid Gland |
|-------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 1-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| * Pancreas | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Testes | Interstit Cell | Atrophy | Minimal |
| | [Adenoma TGLs = 2-9] | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 500

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|-------------------|-----------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Skin | * Thymus | * Thyroid Gland | * Trachea |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | | |

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|----------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mesothelioma Malignant | |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 5-6] | | |
| | Mesentery | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 4-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Marked |
| * Pancreas | | Mesothelioma Malignant | |
| Peritoneum | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 500

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53724

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|------------------------|---------------------------|-----------------------------------|
| * Seminal Vesicle | | Mesothelioma Malignant |
| * Spleen | | Mesothelioma Malignant |
| * Stomach, Forestomach | | Mesothelioma Malignant |
| * Stomach, Glandular | | Mesothelioma Malignant |
| * Testes | Bilateral, Interstit Cell | Adenoma Mesothelioma Malignant |
| | [Adenoma TGLs = 2,3-9] | |
| * Urinary Bladder | | Mesothelioma Malignant |

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|--|---------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Histiocytic Sarcoma | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Histiocytic Sarcoma | |
| | | Nephropathy | Mild |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 8-6] | | |
| * Lung | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 3-4+5] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Moderate |
| * Pancreas | | Atrophy | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Suppurative, Moderate |
| * Skin | | Cyst Epithelial Inclusion | |
| | Subcut Tiss | Histiocytic Sarcoma | |
| | [Cyst Epithelial Inclusion TGLs = 10-19] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53725

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--|----------------------------------|---------|
| [Histiocytic Sarcoma TGLs = 9-14+15+16] | | |
| * Spleen | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLs = 6-18] | | |
| * Stomach, Glandular | Necrosis | Minimal |
| * Testes | Bilateral, Interstit Cell | |
| | Adenoma | |
| | Mesothelioma Malignant | |
| [Adenoma TGLs = 5-9] | | |
| [Mesothelioma Malignant TGLs = 4-19] | | |
| * Thyroid Gland | C Cell | |
| | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Histiocytic Sarcoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 660

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | Peripheral Nerve | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| Spinal Cord | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-----------------------------|----------------|------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| [Nephropathy TGLs = 3-7] | | | |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Mild |
| [Fatty Change TGLs = 6-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 660

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53726

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Atrophy

Marked

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 2-15]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--|-------------------------|-------------------------|
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 5-17] | | |
| | [Eosinophilic Focus TGLs = 3,4,6-15+16+18] | | |
| | [Mixed Cell Focus TGLs = 2-14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Marked |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53727

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|----------------|----------------------|-----------------------|
| * Pancreas | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Atrophy | Minimal |
| * Spleen | | Hyperplasia | Mild |
| * Testes | Interstit Cell | Leukemia Mononuclear | |
| [Adenoma TGLs = 1-9] | | Adenoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------------------|-------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| | [Leukemia Mononuclear TGLs = 9-7] | | |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| | [Leukemia Mononuclear TGLs = 12-18] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53728

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|------------------------|--------------------------|
| [Leukemia Mononuclear TGLs = 13-16] | | | |
| Mesentery | | Mesothelioma Malignant | |
| | Fat | Necrosis | Mild |
| [Necrosis TGLs = 10-17] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 11-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 5,6,7-15] | | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Hyperplasia | Mild |
| | | Mesothelioma Malignant | |
| [Hyperplasia TGLs = 14-9] | | | |
| [Mesothelioma Malignant TGLs = 8-9] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Carcinoma | |
| [Carcinoma TGLs = 3-3] | | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 411

TRT#: 5

SEX: Male

DAY ON TEST: 586

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Urinary Bladder | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------|----------------|----------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Esophagus | | Carcinoma | Metastatic (Thyroid Gland) |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| [Nephropathy TGLs = 5-7] | | | |
| * Larynx | | Carcinoma | Metastatic (Thyroid Gland) |
| * Liver | | Degeneration | Cystic, Mild |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Carcinoma | Metastatic (Thyroid Gland) |
| [Carcinoma TGLs = 3-4+5] | | | |
| Lymph Node | Pancreatic | Congestion | Mild |
| [Congestion TGLs = 6-6] | | | |
| * Lymph Node, Mesenteric | | Congestion | Mild |
| [Congestion TGLs = 9-8] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 8-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 411

TRT#: 5

SEX: Male

DAY ON TEST: 586

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53729

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|--------------------|----------------------------|
| * Pituitary Gland [Adenoma TGLs = 4-10] | Pars Distalis | Adenoma | |
| * Testes [Adenoma TGLs = 7-9] | Interstit Cell | Adenoma Atrophy | Moderate |
| * Thymus [Carcinoma TGLs = 2-3] | | Carcinoma | Metastatic (Thyroid Gland) |
| * Thyroid Gland [Carcinoma TGLs = 1-3] | C Cell | Carcinoma | |
| * Trachea | | Carcinoma | Metastatic (Thyroid Gland) |

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 412

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| | [Nephropathy TGLs = 3-7] | | |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Cyst Epithelial Inclusion | Mild |
| | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14+15] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 2-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 412

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53730

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 413

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
| * Thymus | | | |

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| | [Nephropathy TGLs = 4-7] | | |
| * Liver | | Clear Cell Focus | |
| | [Clear Cell Focus TGLs = 3-6] | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | Alveolar Epith | Metaplasia | Squamous, Mild |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Adenoma | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 413

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53731

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Moderate

Atrophy

[Adenoma TGLs = 2-9]

[Atrophy TGLs = 1-9]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 414

TRT#: 5

SEX: Male

DAY ON TEST: 642

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|--|-------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| | [Thrombosis TGLs = 12-6] | | |
| * Kidney | | Infarct | Moderate |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| | [Infarct TGLs = 11-7] | | |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2,4,3-6+14] | | |
| * Lung | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 414

TRT#: 5

SEX: Male

DAY ON TEST: 642

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53732

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------------------|------------------------|--------------------------|
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 10-8] | | |
| Mesentery | | Mesothelioma Malignant | |
| | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 7-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Leukemia Mononuclear | |
| | | Mesothelioma Malignant | |
| [Leukemia Mononuclear | TGLs = 5-15] | | |
| [Mesothelioma Malignant | TGLs = 6-15] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| [Adenoma | TGLs = 8-9] | | |
| [Mesothelioma Malignant | TGLs = 9-17] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 415

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Moderate |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 415

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53733

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--------------------------------|-----------------------|---------------------|
| * Pituitary Gland [Adenoma TGLs = 6-10] | Olfactory Epi Pars Distalis | Metaplasia Adenoma | Respiratory, Marked |
| * Prostate | | Hyperplasia | Minimal |
| * Spleen [Leukemia Mononuclear TGLs = 2-14] | | Leukemia Mononuclear | |
| * Testes [Adenoma TGLs = 4-9] [Atrophy TGLs = 5-9] | Interstit Cell | Adenoma Atrophy | Marked |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell C Cell | Adenoma Carcinoma | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 416

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | Renal Tubule | Carcinoma | |
| | | Nephropathy | Mild |
| | [Carcinoma TGLs = 8-17] | | |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mesothelioma Malignant | |
| | | Mixed Cell Focus | |
| | [Hepatodiaphragmatic Nodule TGLs = 7-19] | | |
| | [Mixed Cell Focus TGLs = 6-6] | | |
| * Lung | | Carcinoma | Metastatic (Kidney) |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 416

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53734

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|------------------------|------------------------|
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 4-14] | | |
| * Stomach, Forestomach | | Mesothelioma Malignant | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 2-9] | | |
| | [Mesothelioma Malignant TGLs = 3-16+9] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hyperplasia | Moderate |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 417

TRT#: 5

SEX: Male

DAY ON TEST: 296

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|------------|----------------|--------------|-----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 418

TRT#: 5

SEX: Male

DAY ON TEST: 418

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|--------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Prostate | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 419

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-7] | | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | Renal Tubule | Necrosis | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-4+5] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 419

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53737

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|----------------|------------------------|--------------------------|
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 2-3] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 10-16] | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma | TGLs = 1-17] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | Capsule | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 7-14] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | Tunic | Hyperplasia | Minimal |
| | | Mesothelioma Malignant | |
| [Adenoma | TGLs = 9-9] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 420

TRT#: 5

SEX: Male

DAY ON TEST: 557

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-----------------------------|----------------|------------------|--------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | Arteriole | Inflammation | Minimal |
| * Intestine Large, Colon | Arteriole | Inflammation | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| [Fatty Change TGLs = 1-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Lymph Node, Bronchial | | Congestion | Mild |
| [Congestion TGLs = 3-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |
| * Prostate | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 420

TRT#: 5

SEX: Male

DAY ON TEST: 557

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53738

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|----------------|--------------|-----------------|
| * Skin | | Inflammation | Acute, Moderate |
| * Testes | | Atrophy | Moderate |
| | Interstit Cell | Hyperplasia | Minimal |
| | Arteriole | Inflammation | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 502

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Thymus | * Trachea | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

| | | | |
|---------------------------|-----------------------------|------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| Blood Vessel | Aorta | Mineralization | Moderate |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Transit Epithe | Hyperplasia | Moderate |
| | | Inflammation | Suppurative, Marked |
| | | Nephropathy | Marked |
| | [Inflammation TGLs = 5-7] | | |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Mineralization | Mild |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 2-3] | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| * Parathyroid Gland | | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 502

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53739

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------|----------------|----------------|-----------------------|
| Penis | | Inflammation | Suppurative, Marked |
| [Inflammation TGLs = 6-14] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Inflammation | Suppurative, Moderate |
| * Stomach, Glandular | | Mineralization | Marked |
| * Testes | | Atrophy | Marked |
| [Atrophy TGLs = 3-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Urinary Bladder | Transit Epithe | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH - Penis Inflammation

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 422

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------------|--------------------------------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 5-7] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 2-6] | | |
| | [Mixed Cell Focus TGLs = 2,4-6+14] | | |
| * Lymph Node, Bronchial | | Ectasia | Marked |
| | [Ectasia TGLs = 1-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Moderate |
| * Parathyroid Gland | | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 422

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53740

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 3-9]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 423

TRT#: 5

SEX: Male

DAY ON TEST: 689

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------|-------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Pheochromocytoma Benign | |
| * Heart | | Mesothelioma Malignant | |
| | [Thrombosis TGLs = 3-14] | Thrombosis | Moderate |
| * Intestine Large, Rectum | | Thrombosis | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| | Bile Duct | Inflammation | Suppurative, Marked |
| | | Necrosis | Moderate |
| | [Inflammation TGLs = 6-6+15] | | |
| | [Necrosis TGLs = 5-15] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 423

TRT#: 5

SEX: Male

DAY ON TEST: 689

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53741

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------------------|------------------------|------------------------|
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Marked |
| * Pancreas | Duct | Carcinoma | |
| | | Inflammation | Chronic Active, Marked |
| [Carcinoma TGLs = 8-17] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| [Adenoma TGLs = 7-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pancreas Duct Carcinoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 424

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|-----------------|--------|
| * Lymph Node, Bronchial | * Mammary Gland | * Skin |
|-------------------------|-----------------|--------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|---------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 424

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53742

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | | |
|-------------------|--------------------------------------|----------------|----------------------|--------------------------|
| | [Necrosis TGLs = 6-16] | | | |
| * Nose | | Turbinate | Atrophy | Moderate |
| | | Turbinate | Hyperostosis | Moderate |
| | | Respirat Epith | Hyperplasia | Moderate |
| | | | Inflammation | Chronic Active, Moderate |
| | | | Leukemia Mononuclear | |
| | | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | | Atrophy | Minimal |
| | | | Leukemia Mononuclear | |
| * Pituitary Gland | | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | | |
| * Prostate | | | Inflammation | Suppurative, Mild |
| * Spleen | | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | | |
| * Testes | | Interstit Cell | Hyperplasia | Minimal |
| * Thymus | | | Leukemia Mononuclear | |
| * Thyroid Gland | | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 425

TRT#: 5

SEX: Male

DAY ON TEST: 683

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|--|---------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Islets, Pancreatic | | Carcinoma | |
| [Carcinoma TGLs = 5-14] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 1-4+5] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Marked |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3,4-14] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 425

TRT#: 5

SEX: Male

DAY ON TEST: 683

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53743

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

[Adenoma TGLs = 2-9]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|----------------|------------------------|---------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | Bilateral | Hyperplasia | Moderate |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Marked |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Carcinoma | |

[Carcinoma TGLs = 1-17]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53744

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------------------|------------------------|------------------------|
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Marked |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Trichoepithelioma | |
| [Trichoepithelioma TGLs = 2-18] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| [Adenoma TGLs = 4-9] | | | |
| [Mesothelioma Malignant TGLs = 5-16] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Mild |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 427

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Trachea |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|----------------------------|--|-------------------------|--------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Pheochromocytoma Benign | |
| * Heart | | Mesothelioma Malignant | |
| | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| * Intestine Large, Cecum | | Mesothelioma Malignant | |
| * Intestine Small, Jejunum | | Mesothelioma Malignant | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 4-6] | | |
| * Lung | | Thrombosis | Minimal |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 7-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Marked |
| * Pancreas | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 427

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53745

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|------------------------|---------|
| * Prostate | | Mesothelioma Malignant | |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-14] | | |
| * Spleen | | Mesothelioma Malignant | |
| * Stomach, Forestomach | | Mesothelioma Malignant | |
| * Stomach, Glandular | | Mesothelioma Malignant | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 6-9] | | |
| | [Mesothelioma Malignant TGLs = 5-15] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 428

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 1-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 429

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| Mesentery | | Mesothelioma Malignant | |
| | Fat | Necrosis | Mild |
| | [Mesothelioma Malignant TGLs = 2-14] | | |
| | [Necrosis TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 429

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53747

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-10]

* Testes

Mesothelioma Malignant

* Thyroid Gland

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 430

TRT#: 5

SEX: Male

DAY ON TEST: 535

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|--------------------------|---------------------|----------------------|
| * Bone | * Brain | * Esophagus | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Thymus |
| * Thyroid Gland | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Larynx | * Stomach, Glandular | * Trachea | |

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| | [Thrombosis TGLs = 3-6] | | |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Marked |
| | [Necrosis TGLs = 4-6] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Thrombosis | Marked |
| * Pancreas | | Mesothelioma Malignant | |
| Peritoneum | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 7-16] | | |
| * Prostate | | Mesothelioma Malignant | |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 430

TRT#: 5

SEX: Male

DAY ON TEST: 535

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53748

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Mesothelioma Malignant

* Stomach, Forestomach

Mesothelioma Malignant

* Testes

Interstit Cell

Adenoma

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 5-9+14]

PRIMARY CAUSE OF DEATH

- Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 431

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------------|---|-------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Eosinophilic Focus TGLs = 4,5,6,8-6+14+15+7] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10-4+5] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-15] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 431

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53749

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|------------------------|
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 3-14] | | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |
| * Thymus | | Leukemia Mononuclear | |

Animal Note: TGL 7 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 432

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|------------------------|----------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Harderian Gland | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|-----------------------------|--------------------------|----------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|------------------------|------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Sarcoma | |
| | [Sarcoma TGLs = 5-11+12] | | |
| * Seminal Vesicle | | Hyperplasia | Mild |
| * Skin | | Trichoepithelioma | |
| | [Trichoepithelioma TGLs = 2-15] | | |
| * Testes | | Atrophy | Mild |
| | Interstit Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 432

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53750

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

[Atrophy TGLs = 4-9]

PRIMARY CAUSE OF DEATH

- Nose Sarcoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 433

TRT#: 5

SEX: Male

DAY ON TEST: 555

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
| * Thymus | | | |

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|-----------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Marked |
| | [Thrombosis TGLs = 3-14+4] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Mild |
| * Lung | | Thrombosis | Mild |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-16] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Moderate |
| * Pancreas | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 433

TRT#: 5

SEX: Male

DAY ON TEST: 555

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53751

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--|-----------------------------------|----------------------|
| * Preputial Gland [Carcinoma TGLs = 4-9] | Carcinoma | |
| * Prostate | Inflammation | Suppurative, Minimal |
| Skeletal Muscle [Mesothelioma Malignant TGLs = 9-15] | Mesothelioma Malignant | |
| * Spleen [Mesothelioma Malignant TGLs = 8-6] | Mesothelioma Malignant | |
| * Stomach, Forestomach | Mesothelioma Malignant | |
| * Testes Bilateral, Interstit Cell | Adenoma Mesothelioma Malignant | |
| [Adenoma TGLs = 6-9] [Mesothelioma Malignant TGLs = 7-17] | | |
| * Urinary Bladder | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Heart Thrombosis

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 434

TRT#: 5

SEX: Male

DAY ON TEST: 574

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | Alveolar Epith | Metaplasia | Mucous, Mild |
| | [Leukemia Mononuclear TGLs = 2-4+5] | | |
| | Lymph Node Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-14] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-15] | | |
| * Nose | | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Moderate |
| | Turbinates | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 434

TRT#: 5

SEX: Male

DAY ON TEST: 574

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53752

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|--|----------------------|----------|
| * Pancreas | | Thrombosis | Moderate |
| * Skin | | Atrophy | Mild |
| | [Keratoacanthoma TGLs = 1-16] | Keratoacanthoma | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4,5-14] | | |
| * Stomach, Glandular | | Ulcer | Moderate |
| | [Ulcer TGLs = 9-15] | | |
| * Testes | | Adenoma | |
| | [Adenoma TGLs = 8-9] | | |
| * Thyroid Gland | | Hyperplasia | Minimal |
| | Interstit Cell | | |
| | C Cell | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 435

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-------------------------|------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 1-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 436

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------------|--------------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | Alveolar Epith | Hyperplasia | Mild |
| | [Alveolar/Bronchiolar Carcinoma | | |
| | TGLs = 2-5+16] | | |
| | [Hyperplasia TGLs = 4-4] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 436

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53754

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

[Adenoma TGLs = 3-9]

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 437

TRT#: 5

SEX: Male

DAY ON TEST: 423

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------------|--------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| | [Nephropathy TGLs = 2-7] | | |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | [Inflammation TGLs = 3,4-14+5] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Seminal Vesicle | | Adenoma | |
| * Skin | | Inflammation | Chronic Active, Marked |
| | [Inflammation TGLs = 1-9+17] | | |
| * Testes | Interstit Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Skin Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 438

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|----------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| | [Carcinoma TGLs = 5-14] | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 438

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53756

ORGAN AND ACCOUNTABLE SITE STATUS

Necrosis

Mild

[Leukemia Mononuclear TGLs = 2-14]

[Necrosis TGLs = 3-14]

* Testes

Interstit Cell

Adenoma

[Adenoma TGLs = 6-9]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 439

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | |
|-----------------------------------|--------------------|------------------------|
| * Adrenal Cortex | Hyperplasia | Mild |
| * Adrenal Medulla | Hyperplasia | Mild |
| * Harderian Gland | Hyperplasia | Moderate |
| * Heart | Cardiomyopathy | Mild |
| * Kidney | Nephropathy | Marked |
| [Nephropathy TGLs = 4-7] | | |
| * Liver | Degeneration | Cystic, Minimal |
| | Eosinophilic Focus | |
| | Fatty Change | Diffuse, Minimal |
| | Inflammation | Chronic, Mild |
| | Mixed Cell Focus | |
| [Eosinophilic Focus TGLs = 3-6] | | |
| [Mixed Cell Focus TGLs = 3-6] | | |
| * Nose | Turbinate | Moderate |
| | Turbinate | Moderate |
| | Respirat Epith | Mild |
| | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Respiratory, Marked |
| | Olfactory Epi | Squamous, Mild |
| | Atrophy | |
| | Hyperostosis | |
| | Hyperplasia | |
| | Metaplasia | |
| | Metaplasia | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 439

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53757

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|-------------------------------|-------------|----------|
| * Pancreas | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-14+15+16] | | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2-9] | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| [Hyperplasia TGLs = 8-7] | | | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| [Clear Cell Focus TGLs = 7-6] | | | |
| * Lymph Node, Bronchial | | Ectasia | Mild |
| [Ectasia TGLs = 4-22] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53758

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------------------|------------------------|-----------------------|
| [Adenoma TGLs = 6-10] | | | |
| * Prostate | | Inflammation | Suppurative, Moderate |
| * Skin | Subcut Tiss | Fibroma | Multiple |
| [Fibroma TGLs = 1,3-14+15+16+18+19+20] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 9-24] | | | |
| * Thyroid Gland | Follicular Cel | Carcinoma | |
| [Carcinoma TGLs = 5-3] | | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 441

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Nephropathy | Mild |
| | | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-15] | | |
| Mesentery | | Inflammation | Chronic Active, Mild |
| | Fat | Necrosis | Mild |
| | [Inflammation TGLs = 7-16] | | |
| | [Necrosis TGLs = 4-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 441

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53759

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---|---|-----------------------------------|
| * Pancreas | Olfactory Epi | Metaplasia Atrophy | Respiratory, Moderate Moderate |
| * Pituitary Gland | Pars Distalis | Leukemia Mononuclear Hyperplasia Leukemia Mononuclear | Moderate |
| * Spleen | [Hyperplasia TGLs = 1-10] | Leukemia Mononuclear | |
| * Testes | [Leukemia Mononuclear TGLs = 3-14] Bilateral, Interstit Cell | Adenoma | |
| * Thymus | [Adenoma TGLs = 5-9] | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 442

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLs = 5-5] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 442

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53760

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|---------------------------|--------------------------------------|-------------------------------------|
| * Pancreas | Olfactory Epi | Metaplasia Atrophy Hyperplasia | Respiratory, Marked Mild Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Preputial Gland | | Adenoma | |
| [Adenoma TGLs = 1-14] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2,3-9] | | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 443

TRT#: 5

SEX: Male

DAY ON TEST: 596

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Bone | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-14] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-15] | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 443

TRT#: 5

SEX: Male

DAY ON TEST: 596

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53761

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|------------------------|-------------------------|
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Suppurative, Mild |
| | | Leukemia Mononuclear | |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 2-14] | | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| | | Necrosis | Minimal |
| | [Necrosis TGLs = 9-15] | | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 3-9] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 444

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------------|----------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|--------------------------|-----------------|---------------------|
| * Lymph Node, Mandibular | * Mammary Gland | * Parathyroid Gland |
|--------------------------|-----------------|---------------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|----------------------|---------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Necrosis | Mild |
| | | Nephropathy | Mild |
| | [Necrosis TGLs = 5-17] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-15] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-18] | | |
| * Nose | Turbinate | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 444

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53762

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|-----------------------|
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Moderate |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-16] | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Moderate |
| | | Leukemia Mononuclear | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Hyperplasia | Mild |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 445

TRT#: 5

SEX: Male

DAY ON TEST: 575

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------|------------------------|-------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Harderian Gland | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Seminal Vesicle |

OBSERVATIONS

| | | | |
|---------------------------|--|------------------------|----------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Mild |
| | [Thrombosis TGLs = 2-14] | | |
| * Liver | | Inflammation | Chronic, Mild |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 7-6] | | |
| * Lymph Node, Mediastinal | | Congestion | Moderate |
| | [Congestion TGLs = 3-3] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 8-17] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| | | Thrombosis | Marked |
| * Preputial Gland | | Carcinoma | |
| | [Carcinoma TGLs = 4-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 445

TRT#: 5

SEX: Male

DAY ON TEST: 575

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53763

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--|------------------------|---------|
| * Prostate | Hyperplasia | Mild |
| * Spleen | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 6-6] | | |
| * Stomach, Glandular | Necrosis | Minimal |
| [Necrosis TGLs = 10-10+16] | | |
| * Testes | Interstit Cell | |
| | Adenoma | |
| | Atrophy | Marked |
| | Mesothelioma Malignant | |
| [Adenoma TGLs = 5-9] | | |
| [Mesothelioma Malignant TGLs = 9-16] | | |

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 446

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------------------|---------------|-----------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Pancreatic | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 7-6] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 6-8] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-7] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Skin | Subcut Tiss | Schwannoma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 446

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53764

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLs = 1-14]
* Testes Interstit Cell Adenoma
[Adenoma TGLs = 2-9]

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

Animal Note: TGL 3 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 447

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|----------------|------------------------------|--------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Mild |
| [Clear Cell Focus TGLs = 5-6] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma TGLs = 1-5] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Prostate | | Hyperplasia | Mild |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 447

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53765

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2,3-9]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 448

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Epididymis | | Hyperplasia | Mesothelium, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| [Clear Cell Focus TGLs = 3-6] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Alveolar Epith | Hyperplasia | Mild |
| [Hyperplasia TGLs = 2-5] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 448

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53766

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------------------|-------------|---------|
| [Adenoma TGLs = 1-14] | | | |
| * Prostate | | Hyperplasia | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Hyperplasia | Minimal |
| [Adenoma TGLs = 4-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 449

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

INSUFFICIENT TISSUE

* Adrenal Medulla

OBSERVATIONS

| | | | |
|----------------------|---------------------------------|------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 4-6] | | |
| | [Mixed Cell Focus TGLs = 4-6] | | |
| * Nose | Respirat Epith | Adenoma | |
| | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 449

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53767

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|----------------|-------------|----------|
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLs = 1-14] | | | |
| * Prostate | | Hyperplasia | Mild |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| [Adenoma TGLs = 2-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 450

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------|---------------------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Islets, Pancreatic | | Carcinoma | |
| | [Carcinoma TGLs = 3-14] | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 450

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53768

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-10]

* Testes

Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 701

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---|------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 8,10,9-6+17] | | |
| | Lymph Node Pancreatic | Hyperplasia | Lymphoid, Minimal |
| | [Hyperplasia TGLs = 12-17] | | |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 1-3] | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 13-8] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 701

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53619

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|------------------------|-------------------------|
| * Pancreas | Olfactory Epi | Inflammation | Chronic Active, Minimal |
| Peritoneum | | Metaplasia | Respiratory, Moderate |
| | | Atrophy | Minimal |
| [Mesothelioma Malignant TGLs = 6-16] | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 11-10] | | | |
| * Spleen | | Mesothelioma Malignant | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| [Adenoma TGLs = 7-9] | | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 3,4-14+9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------|---------------------------------|------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Mixed Cell Focus TGLs = 3-6] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-15+16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53620

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Infiltration Cellular

Polymorphnuclr, Moderate

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLs = 1-3]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|---|----------------|----------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Moderate |
| | | Mixed Cell Focus | |
| | | | |
| [Clear Cell Focus TGLs = 6-6] | | | |
| [Hepatodiaphragmatic Nodule TGLs = 2-7] | | | |
| [Mixed Cell Focus TGLs = 3-6] | | | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| [Ectasia TGLs = 4-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53621

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------|------------------------|--------------------------|
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Inflammation | Chronic Active, Moderate |
| [Adenoma TGLs = 5-10] | | Adenoma | |
| * Testes | | Mesothelioma Malignant | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|-------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| | [Nephropathy TGLs = 9-7] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | [Clear Cell Focus TGLs = 8-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 3-5] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-17] | | |
| * Nose | Respirat Epith | Adenoma | |
| | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53622

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--|------------------------|------------------------|
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Pars Distalis | Adenoma | |
| * Pituitary Gland | | | |
| | [Adenoma TGLs = 7-10] | | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 2-16] | | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-14] | | |
| * Spleen | | Mesothelioma Malignant | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 4-9] | | |
| | [Mesothelioma Malignant TGLs = 5-9+18] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 635

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------------------|----------------|------------------------|--------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Moderate |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2,4-14+15] | | | |
| * Nose | Respirat Epith | Adenoma | |
| | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| [Carcinoma TGLs = 1-3] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|---------------------------|--|-------------------------|--------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | Bilateral | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 6-7] | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 5-7] | | |
| * Liver | | Degeneration | Cystic, Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 7-15] | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53624

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------------------|----------------------|--------------------------|
| * Pancreas | Olfactory Epi | Inflammation | Chronic Active, Moderate |
| | | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Atrophy | Minimal |
| [Adenoma TGLs = 4-10] | | Adenoma | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| [Fibrosis TGLs = 3-14] | | | |
| [Leukemia Mononuclear TGLs = 2-14] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 1-9] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------|--------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Marked |
| [Nephropathy TGLs = 2-7] | | | |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Mild |
| [Necrosis TGLs = 4-6] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53625

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|-----------------------------|------------------------|--------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Metaplasia | Squamous, Mild |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Moderate |
| | [Fatty Change TGLs = 4-6] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Testes | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53626

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

Hyperplasia

Minimal

* Thyroid Gland

C Cell

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | |
|---------------------------|----------------------|--------------------------|
| * Adrenal Cortex | Leukemia Mononuclear | |
| * Adrenal Medulla | Hyperplasia | Mild |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Leukemia Mononuclear | |
| * Liver | Nephropathy | Mild |
| | Clear Cell Focus | |
| | Degeneration | Cystic, Mild |
| | Eosinophilic Focus | |
| | Fatty Change | Diffuse, Mild |
| | Inflammation | Chronic, Moderate |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Nose | Leukemia Mononuclear | |
| | Respirat Epith | |
| | Turbinate | Marked |
| | Turbinate | Moderate |
| | Respirat Epith | Moderate |
| | Hyperostosis | |
| | Hyperplasia | Moderate |
| | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53627

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|-------------------------------------|--------------------------------------|--|
| * Pancreas | Olfactory Epi | Metaplasia Atrophy Hyperplasia | Respiratory, Moderate Minimal Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Hyperplasia | Moderate |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Testes | Bilateral, Interstit Cell Tunic | Adenoma Hyperplasia | Minimal |
| | [Adenoma TGLs = 1-9] | | |
| * Thymus | | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---|----------------|------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| Coagulating Gland | | Hyperplasia | Moderate |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Fatty Change | Diffuse, Minimal |
| | | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Moderate |
| [Clear Cell Focus TGLs = 3-6] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma TGLs = 1-5] | | | |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Moderate |
| [Hyperplasia TGLs = 4-3] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Marked |
| | | Inflammation | Chronic Active, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53628

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------------------|--------------------------------|-----------------------------------|---------------------|
| * Pituitary Gland | Olfactory Epi Pars Distalis | Metaplasia Adenoma | Respiratory, Marked |
| * Testes | Interstit Cell | Adenoma Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 2-9] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 611

TRT#: 7

SEX: Male

DAY ON TEST: 449

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------------|------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-1] | | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Larynx | | Leukemia Mononuclear | |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-4+5] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-7] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 611

TRT#: 7

SEX: Male

DAY ON TEST: 449

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53629

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------|--------------------------------------|----------------------|--------------------------|
| | | Inflammation | Chronic Active, Moderate |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-15] | | |
| * Testes | Interstit Cell | Adenoma | |
| | Tunic | Hyperplasia | Minimal |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 612

TRT#: 7

SEX: Male

DAY ON TEST: 542

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Esophagus | * Eye | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------------|------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-1] | | |
| * Epididymis | | Mesothelioma Malignant | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-4+5] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 612

TRT#: 7

SEX: Male

DAY ON TEST: 542

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53630

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|----------------|------------------------|--------------------------|
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Leukemia Mononuclear | |
| | | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Mild |
| * Pancreas | | Atrophy | Mild |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 1-14] | | | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Testes | Interstit Cell | Hyperplasia | Minimal |
| | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 613

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|---------------------------|----------------------------|----------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Rectum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Thymus | * Trachea | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------------------|---|------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Leukemia Mononuclear | |
| * Heart | | Mesothelioma Malignant | |
| | [Thrombosis TGLs = 10-6] | Thrombosis | Moderate |
| * Intestine Large, Cecum | | Mesothelioma Malignant | |
| * Intestine Large, Colon | | Mesothelioma Malignant | |
| * Intestine Small, Duodenum | | Mesothelioma Malignant | |
| * Intestine Small, Ileum | | Mesothelioma Malignant | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-17] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 2,8-14+17] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 613

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53631

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|--|---|
| | Olfactory Epi | Inflammation Metaplasia Thrombosis | Chronic Active, Marked Respiratory, Marked Mild |
| * Pancreas | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Prostate | | Mesothelioma Malignant | |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-15] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Stomach, Forestomach | | Mesothelioma Malignant Ulcer | Moderate |
| * Stomach, Glandular | | Mesothelioma Malignant | |
| * Testes | Bilateral, Interstit Cell | Adenoma Mesothelioma Malignant | |
| | [Adenoma TGLs = 7-9] | | |
| | [Mesothelioma Malignant TGLs = 6-16] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: TGL 5 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 614

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|--|--------------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | [Clear Cell Focus TGLs = 4-6] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 2-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 614

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53632

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Basal Cell Adenoma

[Basal Cell Adenoma TGLs = 1-14]

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 615

TRT#: 7

SEX: Male

DAY ON TEST: 670

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------|------------------------------------|--------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15+16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 616

TRT#: 7

SEX: Male

DAY ON TEST: 10

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|--------------|------------|-----------------------|--------------------------|
| * Epididymis | | Degeneration | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| * Nose | Turbinates | Atrophy | Mild |
| | Turbinates | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| Pleura | | Hyperplasia | Mild |
| | | Infiltration Cellular | Mononuclear CI, Moderate |

PRIMARY CAUSE OF DEATH - Pleura Infiltration Cellular

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 617

TRT#: 7

SEX: Male

DAY ON TEST: 718

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------|-----------------------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Islets, Pancreatic | | Carcinoma | |
| | [Carcinoma TGLs = 1-14] | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | [Fatty Change TGLs = 3-6] | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Pancreas | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Acinus | Carcinoma | |
| | [Carcinoma TGLs = 2-15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 617

TRT#: 7

SEX: Male

DAY ON TEST: 718

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53635

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 618

TRT#: 7

SEX: Male

DAY ON TEST: 676

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-------------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-16] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 618

TRT#: 7

SEX: Male

DAY ON TEST: 676

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53636

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|--------------------|
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-15] | | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Testes | Interstit Cell | Hyperplasia | Minimal |
| Tongue | | Hyperplasia | Squamous, Moderate |
| | [Hyperplasia TGLs = 1-14] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 619

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------------|----------------------|--------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | [Leukemia Mononuclear TGLs = 7-14] | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| * Liver | | Degeneration | Cystic, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | [Leukemia Mononuclear TGLs = 6-4+5] | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 619

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53637

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|----------------|----------------------|---------|
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 4-15] | | | |
| * Stomach, Forestomach | | Ulcer | Marked |
| [Ulcer TGLs = 5,8-10+15] | | | |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLs = 3-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 620

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Pheochromocytoma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Cholangiocarcinoma | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Marked |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 5-6+18] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 7-6] | | |
| | [Mixed Cell Focus TGLs = 5-18] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 620

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53638

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------|----------------|----------------------|------------------------|
| [Hyperplasia TGLs = 9-5] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-18] | | | |
| * Nose | Turbinat | Atrophy | Marked |
| | Turbinat | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 8-10] | | | |
| * Prostate | | Hyperplasia | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLs = 2-14+15+16] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLs = 3-9] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 621

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--------------------------|------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Inflammation | Chronic, Mild |
| Mesentery | | Mesothelioma Malignant | |
| | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Olfactory Epi | Metaplasia | Squamous, Minimal |
| * Pancreas | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 621

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53639

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Mesothelioma Malignant

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 622

TRT#: 7

SEX: Male

DAY ON TEST: 600

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------|--------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| | | Thrombosis | Mild |
| | [Cardiomyopathy TGLs = 8-14] | | |
| * Kidney | | Infarct | Mild |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| | [Infarct TGLs = 9,10-16+7] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-15] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 622

TRT#: 7

SEX: Male

DAY ON TEST: 600

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53640

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--|----------------------|------------------------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 4,5-15] | | |
| | [Necrosis TGLs = 7-15] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 623

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Thymus | * Trachea |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

| | | | |
|-----------------|--|------------------------|--------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Kidney | | Mesothelioma Malignant | |
| | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Mild |
| | | Necrosis | Moderate |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Thrombosis | Marked |
| | | Atrophy | Minimal |
| Peritoneum | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-15] | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 623

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53641

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|--|----------|
| * Spleen | [Mesothelioma Malignant TGLs = 7-14] | Fibrosis Mesothelioma Malignant | Moderate |
| * Stomach, Forestomach | [Fibrosis TGLs = 2-6] | Mesothelioma Malignant | |
| * Stomach, Glandular | | Mesothelioma Malignant | |
| * Testes | Bilateral, Interstit Cell | Ulcer Adenoma Mesothelioma Malignant | Moderate |
| * Thyroid Gland | [Adenoma TGLs = 4-9] [Mesothelioma Malignant TGLs = 5-17] C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Animal Note: TGL 8 - NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 624

TRT#: 7

SEX: Male

DAY ON TEST: 619

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------|--------------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Mild |
| * Lung | [Hepatodiaphragmatic Nodule TGLs = 3-6] | | |
| | Alveolar Epith | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 1-5] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Prostate | | Inflammation | Suppurative, Moderate |
| | [Inflammation TGLs = 4-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 625

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|--------------------------|---------------------------|----------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------------|-------------------------|---------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-4+5] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinates | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 625

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53643

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------------|
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Mild |
| | [Angiectasis TGLs = 2-10] | | |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-15] | | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 6-9] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 626

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-------------------------------------|------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 3-17+18] | | |
| | [Mixed Cell Focus TGLs = 3-18] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 626

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53644

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------------|---------------|------------------------|------|
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |
| * Prostate | | Hyperplasia | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLs = 1-14+15] | | | |
| * Testes | | Mesothelioma Malignant | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 627

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------|-------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Testes | Interstit Cell | Adenoma | |

[Adenoma TGLs = 2-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 627

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53645

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 628

TRT#: 7

SEX: Male

DAY ON TEST: 628

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Trachea |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland | * Thymus |
|-------------------------|--------------------------|---------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------|-------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| Coagulating Gland | | Pheochromocytoma Benign | |
| * Heart | | Hyperplasia | Moderate |
| * Kidney | Transit Epithe | Cardiomyopathy | Mild |
| | | Hyperplasia | Minimal |
| | [Nephropathy TGLs = 2-7] | Nephropathy | Marked |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| | [Fatty Change TGLs = 1-6] | | |
| * Nose | Turbinat | Atrophy | Marked |
| | Turbinat | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Prostate | | Inflammation | Suppurative, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 628

TRT#: 7

SEX: Male

DAY ON TEST: 628

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53646

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Transit Epithe

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 629

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------|--------------------------------------|---------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| | [Nephropathy TGLs = 4-7] | | |
| * Liver | | Inflammation | Chronic, Mild |
| * Lung | | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 3-4] | | |
| * Nose | | Turbinate | Moderate |
| | | Turbinate | Moderate |
| | | Respirat Epith | Mild |
| | | Inflammation | Chronic Active, Marked |
| | | Olfactory Epi | Respiratory, Moderate |
| * Skin | | Metaplasia | |
| | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1,6-15+14] | | |
| * Testes | | Bilateral, Interstit Cell | Adenoma |
| | [Adenoma TGLs = 5-9] | | |
| * Thyroid Gland | | C Cell | Carcinoma |
| | [Carcinoma TGLs = 2-3] | | |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 630

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Pheochromocytoma Benign | |
| * Eye | Cornea | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Degeneration | Cystic, Mild |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLs = 6-14] | | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | | Metaplasia | Osseous, Mild |
| | [Metaplasia TGLs = 4-4+5] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 630

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53648

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|----------------|----------------------|------------------------|
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 2-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Respirat Epith | Adenoma | |
| | Turbinat | Atrophy | Marked |
| | Turbinat | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma | TGLs = 7-10] | | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| [Fibrosis | TGLs = 3-6] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| Tongue | | Hyperplasia | Squamous, Mild |
| [Hyperplasia | TGLs = 1-7] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 631

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Marked |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Pars Distalis | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 631

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53649

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|------------------------|---------------------------|----------------------|
| * Spleen | | Leukemia Mononuclear |
| [Leukemia Mononuclear | TGLs = 2-6] | |
| * Testes | Bilateral, Interstit Cell | Adenoma |
| [Adenoma | TGLs = 1-9] | |
| * Thymus | | Leukemia Mononuclear |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 632

TRT#: 7

SEX: Male

DAY ON TEST: 694

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------|--|------------------------|-------------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| Coagulating Gland | | Inflammation | Suppurative, Moderate |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Inflammation | Suppurative, Moderate |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Osteosarcoma | Metastatic (Uncertain Primary Site) |
| | [Osteosarcoma TGLs = 3-4+5] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 8-19] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 632

TRT#: 7

SEX: Male

DAY ON TEST: 694

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53650

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|---|-------------------------------------|
| * Pancreas | Olfactory Epi | Metaplasia Atrophy Mesothelioma Malignant | Respiratory, Marked Moderate |
| [Mesothelioma Malignant TGLs = 2-20] | | | |
| Peritoneum | | Osteosarcoma | Metastatic (Uncertain Primary Site) |
| [Osteosarcoma TGLs = 4-14+15+16] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 10-10] | | | |
| * Prostate | | Inflammation | Suppurative, Marked |
| Skeletal Muscle | | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 7-18] | | | |
| * Spleen | | Mesothelioma Malignant | |
| * Testes | Interstit Cell | Adenoma Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 5,6-17+9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | Transit Epithe | Hyperplasia Inflammation | Mild Acute, Mild |
| [Inflammation TGLs = 9-22] | | | |

PRIMARY CAUSE OF DEATH - Peritoneum Osteosarcoma Uncertain Primary Site

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 633

TRT#: 7

SEX: Male

DAY ON TEST: 437

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------|-------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Larynx | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Testes | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thyroid Gland | * Trachea | | |

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|--------------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Moderate |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 633

TRT#: 7

SEX: Male

DAY ON TEST: 437

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53651

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-10]

* Prostate

Inflammation

Suppurative, Moderate

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 4,7-15]

* Stomach, Forestomach

Ulcer

Marked

[Ulcer TGLs = 6-10]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 634

TRT#: 7

SEX: Male

DAY ON TEST: 583

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-14] | | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-17] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-8] | | |
| * Nose | Turbinate | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 634

TRT#: 7

SEX: Male

DAY ON TEST: 583

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53652

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|--|----------------------|------------------------|
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Leukemia Mononuclear | |
| | | Metaplasia | Respiratory, Marked |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3,4,5-16] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 701

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|-----------------------------|----------------------|
| * Adrenal Medulla | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Pancreas | * Preputial Gland |
| * Prostate | * Skin | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|--------------------------|----------------------------|-------------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Seminal Vesicle |
|--------------------------|--------------------------|----------------------------|-------------------|

OBSERVATIONS

| | | | |
|---------------------------|--|------------------------|---------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone | | Osteosarcoma | |
| | [Osteosarcoma TGLs = 9-14] | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10-15] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-19] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 701

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53653

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|--|------------------------|-------------------------|
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Salivary Glands | | Leukemia Mononuclear | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 4-17] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-15] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| | | Necrosis | Minimal |
| | [Necrosis TGLs = 11-10] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 7,8-16+9] | | |
| | [Mesothelioma Malignant TGLs = 5-18] | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 636

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------------|-------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Epididymis | | Mesothelioma Malignant | |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 5-7] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 4-6] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Marked |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | Subcut Tiss | Lipoma | |
| | | Squamous Cell Papilloma | |
| | [Fibrosarcoma TGLs = 2-16+17+18] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 636

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53654

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------|---|------------------------|--|
| | [Lipoma TGLs = 6-20] | | |
| | [Squamous Cell Papilloma TGLs = 1-14] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 3-9] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 637

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 2-6] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Adenoma | |
| * Seminal Vesicle | | Adenoma | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 638

TRT#: 7

SEX: Male

DAY ON TEST: 593

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|---|------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 9-9] | | |
| * Heart | | Thrombosis | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mesothelioma Malignant | |
| | [Inflammation TGLs = 4-6+14] | | |
| | [Mesothelioma Malignant TGLs = 5-14] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 10-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Marked |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 638

TRT#: 7

SEX: Male

DAY ON TEST: 593

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53656

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|------------------------|----------|
| * Prostate | | Hyperplasia | Minimal |
| | | Mesothelioma Malignant | |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-16] | | |
| * Spleen | | Mesothelioma Malignant | |
| * Stomach, Forestomach | | Mesothelioma Malignant | |
| * Stomach, Glandular | | Mesothelioma Malignant | |
| * Testes | Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 8-9] | | |
| | [Mesothelioma Malignant TGLs = 7-17] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|-----------------------------|------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Epididymis | | Mesothelioma Malignant | |
| * Esophagus | | Hyperplasia | Squamous, Moderate |
| * Kidney | Transit Epithe | Hyperplasia | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | [Fatty Change TGLs = 1-7] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mesenteric | | Inflammation | Granulomatous, Moderate |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53657

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate

Inflammation

Suppurative, Mild

* Testes

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 640

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | |
|---------------------------|----------------------------|------------------|
| * Adrenal Cortex | Hyperplasia | Mild |
| | Leukemia Mononuclear | |
| * Adrenal Medulla | Hyperplasia | Moderate |
| | Leukemia Mononuclear | |
| * Bone Marrow | Leukemia Mononuclear | |
| * Brain | Leukemia Mononuclear | |
| * Epididymis | Mesothelioma Malignant | |
| * Heart | Leukemia Mononuclear | |
| | Thrombosis | Mild |
| [Thrombosis TGLs = 4-6] | | |
| * Kidney | Infarct | Mild |
| | Leukemia Mononuclear | |
| | Nephropathy | Mild |
| [Infarct TGLs = 13-21] | | |
| * Liver | Degeneration | Cystic, Moderate |
| | Hepatodiaphragmatic Nodule | |
| Bile Duct | Hyperplasia | Minimal |
| | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 640

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53658

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Hepatodiaphragmatic Nodule TGLs = 12-20]

[Leukemia Mononuclear TGLs = 11-6+20]

* Lung

Leukemia Mononuclear

Lymph Node

Pancreatic

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 15-20]

* Lymph Node, Mediastinal

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 3-3]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 16-8]

* Mammary Gland

Fibroadenoma

[Fibroadenoma TGLs = 1-14]

Mesentery

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 8-16]

* Nose

Turbinate

Atrophy

Marked

Turbinate

Hyperostosis

Moderate

Respirat Epith

Hyperplasia

Minimal

Inflammation

Chronic Active, Moderate

Olfactory Epi

Metaplasia

Respiratory, Marked

Olfactory Epi

Metaplasia

Squamous, Minimal

* Pancreas

Atrophy

Mild

* Pituitary Gland

Angiectasis

Mild

Pars Distalis

Hyperplasia

Mild

[Hyperplasia TGLs = 14-10]

Skeletal Muscle

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 10-18]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 9-19]

* Stomach, Forestomach

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 640

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53658

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 5,6-9]

[Mesothelioma Malignant TGLs = 7-17]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 641

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|------------------------|-------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Kidney | * Lung |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Testes | * Thymus |
| * Urinary Bladder | | | |

MISSING

| | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone Marrow | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Seminal Vesicle | * Thyroid Gland | * Trachea | |

OBSERVATIONS

| | | | |
|-------------------------|--------------------------------------|-----------------------|-----------------------|
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| * Lymph Node, Bronchial | | Infiltration Cellular | Histiocyte, Moderate |
| | [Infiltration Cellular TGLs = 2-7] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Thrombosis | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 3-10] | | |
| * Prostate | | Inflammation | Suppurative, Moderate |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14] | | |
| * Stomach, Glandular | | Necrosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 641

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53659

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLs = 4-10]

PRIMARY CAUSE OF DEATH

- Heart Thrombosis

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 642

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|------------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Carcinoma | |
| | | Nephropathy | Marked |
| | [Carcinoma TGLs = 1-14] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| | | Mixed Cell Focus | |
| | | Necrosis | Minimal |
| | [Clear Cell Focus TGLs = 3-6] | | |
| | [Mixed Cell Focus TGLs = 2-7] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Hyperplasia | Mild |
| | [Alveolar/Bronchiolar Adenoma TGLs = 7-5] | | |
| | [Hyperplasia TGLs = 5-16] | | |
| * Nose | Turbinates | Atrophy | Marked |
| | | Foreign Body | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 642

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53660

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|----------------|--------------|------------------------|
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 643

TRT#: 7

SEX: Male

DAY ON TEST: 583

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | |

MISSING

- | | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Thrombosis | Moderate |
| | [Thrombosis TGLs = 2-6] | | |
| * Intestine Large, Colon | | Adenoma | |
| | [Adenoma TGLs = 13-8] | | |
| * Kidney | Renal Tubule | Hyperplasia | Marked |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mesothelioma Malignant | |
| | [Leukemia Mononuclear TGLs = 7-6] | | |
| | [Mesothelioma Malignant TGLs = 8,12-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 643

TRT#: 7

SEX: Male

DAY ON TEST: 583

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53661

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|---------------------------|------------------------|-------------------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Mesothelioma Malignant | |
| [Mesothelioma Malignant | TGLs = 6-17] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | | Mesothelioma Malignant | |
| [Mesothelioma Malignant | TGLs = 10-15] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| Skeletal Muscle | | Mesothelioma Malignant | |
| [Mesothelioma Malignant | TGLs = 11-18] | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear | TGLs = 9-14] | | |
| * Stomach, Forestomach | | Mesothelioma Malignant | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| [Mesothelioma Malignant | TGLs = 4,5-9+16] | | |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 644

TRT#: 7

SEX: Male

DAY ON TEST: 653

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|-------------------------|--------------------------|---------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|---|-------------------------|------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| * Epididymis | | Mesothelioma Malignant | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 8,9-6+14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 10-17] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Olfactory Epi | Metaplasia | Squamous, Minimal |
| * Pancreas | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 644

TRT#: 7

SEX: Male

DAY ON TEST: 653

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53662

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--|------------------------|----------------|
| * Prostate | | Mesothelioma Malignant | |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 2-15] | | |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 6-6] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 4-9] | | |
| | [Mesothelioma Malignant TGLs = 5-16] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Testes Mesothelioma Malignant

Animal Note: TGL 3 = NCL

Animal Note: TGL 7 = NCL

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 607

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thyroid Gland | * Trachea | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|--|-----------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Harderian Gland | | Degeneration | Moderate |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Inflammation | Suppurative, Mild |
| | | Leukemia Mononuclear | |
| | | Mesenchymal Tumor Malignant | |
| | [Mesenchymal Tumor Malignant TGLs = 7-7] | | |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Inflammation TGLs = 5-6] | | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Carcinoma | Metastatic (Kidney) |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-4+5] | | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 607

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53663

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---|----------------------|------------------------|
| | [Leukemia Mononuclear TGLs = 13,14-19] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 15,16-18] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epi | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Olfactory Epi | Metaplasia | Squamous, Mild |
| * Pancreas | | Atrophy | Minimal |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 11-10] | | |
| * Prostate | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 12-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | | Necrosis | Moderate |
| | [Leukemia Mononuclear TGLs = 4,8,9-16+17] | | |
| | [Necrosis TGLs = 10-17] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Urinary Bladder | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 646

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Skin | * Thyroid Gland | * Trachea |

MISSING

| | | | |
|-------------------------|--------------------------|-----------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland | * Thymus |
|-------------------------|--------------------------|-----------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------------|------------------------|---------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| | [Nephropathy TGLs = 8-7] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLs = 11-16] | | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-16] | | |
| | [Leukemia Mononuclear TGLs = 12-17] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 646

TRT#: 7

SEX: Male

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53664

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------------------|---|--|------------------------|
| * Lymph Node, Mesenteric Mesentery | | Leukemia Mononuclear Mesothelioma Malignant Necrosis | Mild |
| | Fat | | |
| | [Necrosis TGLs = 9-19] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Marked |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Metaplasia | Squamous, Minimal |
| | | Adenoma | |
| * Seminal Vesicle | | Leukemia Mononuclear | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 10-15] | Mesothelioma Malignant | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3,4-17] | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-17] | | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Stomach, Glandular | | Necrosis | Mild |
| | [Necrosis TGLs = 13-18] | | |
| * Testes | | Atrophy | Moderate |
| | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 6-14] | | |
| * Urinary Bladder | | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 647

TRT#: 7

SEX: Male

DAY ON TEST: 619

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Skin | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------------|---------------------|

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|--------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Marked |
| | [Thrombosis TGLs = 8-6] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Inflammation | Acute, Mild |
| | | Necrosis | Mild |
| | [Necrosis TGLs = 6-6] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 7-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Mesothelioma Malignant | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Seminal Vesicle | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 647

TRT#: 7

SEX: Male

DAY ON TEST: 619

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53665

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLs = 3-14]

* Spleen

Mesothelioma Malignant

* Stomach, Forestomach

Mesothelioma Malignant

* Stomach, Glandular

Mesothelioma Malignant

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

[Adenoma TGLs = 5-9]

[Mesothelioma Malignant TGLs = 4-15]

PRIMARY CAUSE OF DEATH

- Heart Thrombosis

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 648

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Esophagus | * Harderian Gland |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Leukemia Mononuclear | |
| * Eye | | Degeneration | Marked |
| | [Degeneration TGLs = 6-13] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-3] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 648

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53666

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--|----------------------|------------------------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-7] | | |
| * Nose | Turbinates | Atrophy | Marked |
| | Turbinates | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | Leukemia Mononuclear | |
| * Preputial Gland | | Leukemia Mononuclear | |
| * Prostate | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3,4-14+6] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Interstit Cell | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 2-9] | | |
| * Thymus | | Leukemia Mononuclear | |
| Tissue NOS | Abdominal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-15] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 649

TRT#: 7

SEX: Male

DAY ON TEST: 617

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Mammary Gland |
|-------------------------|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|------------------|---------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Eye | Retina | Atrophy | Marked |
| | | Cataract | Marked |
| | [Cataract TGLs = 2-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Fibrous Histiocytoma | Metastatic (Skin) |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 4-14] | | |
| * Lung | | Fibrous Histiocytoma | Metastatic (Skin) |
| | Alveolar Epith | Hyperplasia | Mild |
| | [Fibrous Histiocytoma TGLs = 3-4+5] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 649

TRT#: 7

SEX: Male

DAY ON TEST: 617

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53667

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas

Atrophy

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Skin

Subcut Tiss

Fibrous Histiocytoma

[Fibrous Histiocytoma TGLs = 1-15]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrous Histiocytoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 650

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 3-6] | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Moderate |
| [Basophilic Focus TGLs = 2-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Atrophy | Mild |
| | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Testes | Interstit Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|-------------------|--|---------------------------------|---------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Harderian Gland | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 5-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 6-9] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Ovary | | Granulosa-Theca Tumor Malignant | |
| | [Granulosa-Theca Tumor Malignant TGLs = 3-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Uterus | Bilateral | Polyp Stromal | |
| | [Polyp Stromal TGLs = 1,2-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|------------------|-------------------------|--------------------------|---------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|------------------|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| | | Hypertrophy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2,3-17+16+18] | | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Minimal |
| | Pars Distalis | Hyperplasia | Mild |
| [Angiectasis TGLs = 5-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLs = 4-14] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 551

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|--------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | Alveolar Epith | Metaplasia | Squamous, Minimal |
| | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-16] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1,2-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 724

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | Cornea | Inflammation | Chronic Active, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Hydronephrosis | Mild |
| | | Leukemia Mononuclear | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 6-18] | | |
| * Nose | | Inflammation | Acute, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 724

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53572

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------------------------------------|----------------------|------------------------|
| * Spleen | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 2-16] | | |
| * Stomach, Forestomach | Ulcer | Moderate |
| [Ulcer TGLs = 8-10] | | |
| * Urinary Bladder | Inflammation | Chronic Active, Mild |
| [Inflammation TGLs = 3-17] | | |
| * Uterus | Inflammation | Chronic Active, Marked |
| [Inflammation TGLs = 4-14] | | |

PRIMARY CAUSE OF DEATH - Uterus Inflammation

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 666

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------|------------------------------------|------------------|-------------------|
| * Adrenal Cortex | | Carcinoma | |
| | | Hypertrophy | Mild |
| | [Carcinoma TGLs = 5-7] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1-15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 6-14] | | |
| * Parathyroid Gland | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-----------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | Bilateral | Adenoma | |
| | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-9] | | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Mild |
| [Angiectasis TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--|------------------|----------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 2,3,5,6,4,7-14+16+6+7+15] | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | |
|---|------------------------------|------------------|
| * Adrenal Cortex | Hyperplasia | Mild |
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Inflammation | Chronic, Minimal |
| * Lung | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma TGLs = 2-4] | | |
| * Mammary Gland | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14+15] | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Mandibular |
|------------------|--------------------------|

OBSERVATIONS

- | | | | |
|------------------|---------------------------------------|--------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Marked |
| * Bone | | Osteosarcoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Hyperplasia | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Eosinophilic Focus TGLs = 8-6] | | |
| | [Mixed Cell Focus TGLs = 9,10-6+14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 11-4] | | |
| * Mammary Gland | | Carcinoma | Multiple |
| | | Fibroadenoma | Multiple |
| | [Carcinoma TGLs = 2,7-14+16] | | |
| | [Fibroadenoma TGLs = 5,6-17+18+15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53577

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|----------------|-------------|----------|
| * Ovary | Interstit Cell | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2,3,4-16+17+18+19] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 6-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 111

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|---------------------------|-------------------------|--------------------------|
| * Intestine Large, Rectum | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|---------------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 3-4] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15+16+18+19+20] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 4-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 112

TRT#: 2

SEX: Female

DAY ON TEST: 724

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|------------------------------|---------------|------------------|------------------------------|
| * Brain | | Carcinoma | Metastatic (Pituitary Gland) |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLs = 4-14] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 3-15] | | | |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| [Carcinoma TGLs = 2-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 113

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------|------------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | |
| | | [Carcinoma TGLs = 2-23] | |
| | | [Fibroadenoma TGLs = 1-22] | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | [Adenoma TGLs = 3-10] | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 115

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------|------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 5-7] | | |
| * Clitoral Gland | | Carcinoma | |
| | [Carcinoma TGLs = 1-14] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3-15+16] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 116

TRT#: 2

SEX: Female

DAY ON TEST: 547

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---|--------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Eye | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 3-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| Lymph Node | Deep Cervical | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-14] | | |
| * Lymph Node, Mediastinal | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-16] | | |
| * Nose | | Lymphoma Malignant | |
| * Skin | Subcut Tiss | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 5,6-14+11+12+17] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------------------|----------------|----------------------------|------------------|
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule | TGLs = 5-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | |
| [Carcinoma | TGLs = 2-15] | | |
| [Fibroadenoma | TGLs = 1-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 3-7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma | TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 118

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Minimal |
| | Pars Distalis | Hyperplasia | Mild |
| | [Angiectasis TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 3-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 119

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | |
|--------------------------------------|--------------------|--------------------------|
| * Kidney | Nephropathy | Minimal |
| * Larynx | Inflammation | Chronic Active, Moderate |
| * Liver | Basophilic Focus | |
| | Eosinophilic Focus | |
| | Inflammation | Chronic, Minimal |
| * Mammary Gland | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2-15+16+14] | | |
| * Pituitary Gland | Adenoma | |
| [Adenoma TGLs = 3-10] | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 120

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 2-14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3,5-16+15] | | | |
| * Pancreas | Acinus | Atrophy | Mild |
| | | Basophilic Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLs = 1-17] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLs = 6-10] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 661

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| Blood Vessel | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLs = 3-14] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2-15+16+17] | | | |
| * Ovary | Bursa | Dilatation | Mild |
| [Dilatation TGLs = 4-9] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5-10] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 122

TRT#: 2

SEX: Female

DAY ON TEST: 687

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------------------|----------------|-------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mediastinal | | Ectasia | Moderate |
| [Ectasia TGLs = 2-18] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-18] | | | |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| Tongue | | Squamous Cell Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 122

TRT#: 2

SEX: Female

DAY ON TEST: 687

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53590

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Carcinoma TGLs = 3-16]

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 123

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|---------------------------|---|----------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-15+16+17+18] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-20] | | |
| * Thymus | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 123

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53591

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 4-10]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 124

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-21+22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 592

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|----------------------------|---------------|------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Bronchial | | Congestion | Moderate |
| [Congestion TGLs = 4-14] | | | |
| * Mammary Gland | | Carcinoma | |
| [Carcinoma TGLs = 3-15] | | | |
| * Nose | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------------|---------------|------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Uterus | | Polyp Stromal | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 127

TRT#: 2

SEX: Female

DAY ON TEST: 579

DOSE: Control

DISP: Natural Death

HISTO: 53595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum

OBSERVATIONS

- | | | | |
|-------------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mediastinal | | Hemorrhage | Moderate |
| [Hemorrhage TGLs = 2-3] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-16] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4,5-14+15] | | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 128

TRT#: 2

SEX: Female

DAY ON TEST: 719

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|------------------|----------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | |
| | [Carcinoma TGLs = 4-15] | | |
| | [Fibroadenoma TGLs = 3-14] | | |
| * Nose | | Foreign Body | |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| * Ovary | Bursa | Dilatation | Mild |
| | [Dilatation TGLs = 5-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 129

TRT#: 2

SEX: Female

DAY ON TEST: 656

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|----------------------|-------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Rectum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Trachea | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-----------------------------|--------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-14] | | |
| * Ovary | Bursa | Dilatation | Minimal |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 2-9] | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-6] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 129

TRT#: 2

SEX: Female

DAY ON TEST: 656

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53597

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------|----------------------|---------|
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Leukemia Mononuclear | |
| * Uterus | | Leukemia Mononuclear | |

[Leukemia Mononuclear TGLs = 3-10]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-----------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 687

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------------------|---------------|------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 4-14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-16] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Bone Marrow | | Hyperplasia | Reticulum Cell, Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| [Mixed Cell Focus TGLs = 2-7] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLs = 1-10] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 675

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-3] | | |
| | [Leukemia Mononuclear TGLs = 6-18] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-16] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-19] | | |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 675

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53601

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---|----------------------|----------|
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Minimal |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7,8-17+20] | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| | | Ulcer | Mild |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------------|----------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 2-9+14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-7] | | | |
| * Nose | | Foreign Body | |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | | Sertoli Cell Tumor Malignant | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLs = 5-10] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 631

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Bronchial | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Harderian Gland | | Inflammation | Chronic, Mild |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| * Nose | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 631

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53603

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLs = 1-10]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------|--------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Focal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 1-7] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Basal Cell Adenoma | |
| | [Basal Cell Adenoma TGLs = 2-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 703

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--|--------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Hyperplasia | Oncocytic, Moderate |
| | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 7-6+16] | | |
| | [Mixed Cell Focus TGLs = 7-16] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mediastinal | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 6-3] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 3,4,5-17+18+14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 8-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 703

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53605

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 138

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Minimal |
| [Hepatocellular Adenoma TGLs = 1-7] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 3-14] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 2-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 139

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | Retina | Atrophy | Mild |
| | | Cataract | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infarct | Mild |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| | [Infarct TGLs = 4-7] | | |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 5-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 139

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53607

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Fibrosis

Mild

Leukemia Mononuclear

[Fibrosis TGLs = 3-14]

[Leukemia Mononuclear TGLs = 2-14]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 140

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------------------|---------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| [Fatty Change TGLs = 2-6] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 141

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-------------------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Focal |
| | | Inflammation | Chronic, Minimal |
| | [Fatty Change TGLs = 6-7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| | [Fibroadenoma TGLs = 1-14] | | |
| | [Hyperplasia TGLs = 2,3-15+16+18] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 5-10] | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 142

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------------|---------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 4-7] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Galactocele | Mild |
| [Fibroadenoma TGLs = 1-14] | | | |
| [Galactocele TGLs = 2-15] | | | |
| * Nose | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Spleen | | Fibrosis | Moderate |
| [Fibrosis TGLs = 5-6+16] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 143

TRT#: 2

SEX: Female

DAY ON TEST: 694

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|------------------------------------|---------------|------------------|-------------------------------------|
| * Bone | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLs = 11-19] | | | |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLs = 9-20] | | | |
| * Lung | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLs = 3,4,5,6,7,8-5+4] | | | |
| * Lymph Node, Mesenteric | | Congestion | Moderate |
| [Congestion TGLs = 12-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 10-10] | | | |
| Skeletal Muscle | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLs = 1-14+15] | | | |
| * Thymus | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLs = 2-17+18] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Lung Sarcoma Uncertain Primary Site

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 144

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------------|------------------|------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Angiectasis TGLs = 3-7] | | |
| | [Clear Cell Focus TGLs = 2-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 1-14+16] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 145

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 146

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---|---------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-7] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Skin | | Cyst Epithelial Inclusion | Moderate |
| | [Cyst Epithelial Inclusion TGLs = 2-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 146

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53614

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 5-6]

* Thymus

Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 147

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 148

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | |
|-------------------------------------|--|-------------------------|
| * Adrenal Cortex | Leukemia Mononuclear Vacuolization Cytoplasmic | Moderate |
| * Adrenal Medulla | Leukemia Mononuclear | |
| * Clitoral Gland | Adenoma | |
| [Adenoma TGLs = 1-9] | | |
| * Eye | Degeneration | Marked |
| [Degeneration TGLs = 5-13] | | |
| * Harderian Gland | Hyperplasia | Mild |
| * Heart | Leukemia Mononuclear | |
| * Kidney | Leukemia Mononuclear Nephropathy | Minimal |
| * Liver | Basophilic Focus Inflammation Leukemia Mononuclear | Chronic, Minimal |
| [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Nose | Inflammation | Chronic Active, Minimal |
| * Ovary | Bursa Dilatation Leukemia Mononuclear | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 148

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53616

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|-------------|----------------------|-----------------|
| [Dilatation TGLs = 2-9] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3-6] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 53617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Mild |
| | [Angiectasis TGLs = 2-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 150

TRT#: 2

SEX: Female

DAY ON TEST: 691

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | |
|---------------------------|--------------------------------------|---------|
| * Adrenal Cortex | Leukemia Mononuclear | |
| * Adrenal Medulla | Hyperplasia | Mild |
| * Bone Marrow | Leukemia Mononuclear | |
| * Kidney | Leukemia Mononuclear | |
| * Liver | Nephropathy | Minimal |
| | Basophilic Focus | |
| | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15] | |
| * Ovary | Bursa | Mild |
| * Pituitary Gland | Pars Distalis | |
| | [Adenoma TGLs = 4-10] | |
| * Spleen | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-17] | |
| * Stomach, Forestomach | Ulcer | Minimal |
| * Thymus | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 150

TRT#: 2

SEX: Female

DAY ON TEST: 691

DOSE: Control

DISP: Moribund Sacrifice

HISTO: 53618

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------------|-------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | [Basophilic Focus TGLs = 5-6] | | |
| | [Clear Cell Focus TGLs = 5-6] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 2,3-7+14] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Ovary | | Granulosa Cell Tumor Benign | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|--------------------|-------------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-15+16+17+18] | | |
| | Mesentery | Fat | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|--------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53871

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--------------------------------------|----------------------|-------------|
| [Adenoma TGLs = 6-10] | | |
| * Spleen | Fibrosis | Mild |
| | Hemorrhage | Mild |
| | Leukemia Mononuclear | |
| [Fibrosis TGLs = 2-15] | | |
| [Hemorrhage TGLs = 3-16] | | |
| [Leukemia Mononuclear TGLs = 4-14] | | |
| * Stomach, Forestomach | Leukemia Mononuclear | |
| * Stomach, Glandular | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia |
| * Uterus | Leukemia Mononuclear | Mild |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|--------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16+17+18] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 6-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 5-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 3-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53872

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Note: TGLs 7 and 8 were normal subcutaneous fat.

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLs = 2-3]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | | |
|------------------|-------------------------|--------------------------|---------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|------------------|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------|---------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 4-6] | | |
| | [Clear Cell Focus TGLs = 4-6] | | |
| | [Mixed Cell Focus TGLs = 4-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-16] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53873

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------|-------------|-------------------|
| * Pancreas | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Acinus | Atrophy | Minimal |
| [Adenoma TGLs = 2-10] | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------------|--------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3,4-10] | | |
| * Skin | | Inflammation | Chronic Active, Moderate |
| | [Inflammation TGLs = 2,5,6-7+14+15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53874

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 470

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-5] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | | Thrombosis | Minimal |
| * Ovary | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 470

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53875

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|---------------------------------------|----------------------|---------|
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6,7-6] | | |
| * Stomach, Glandular | | Necrosis | Mild |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|--|--------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,3,5-14+15+16] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53876

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 4 = NCL

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|----------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|--------------------------|--------------------------|--------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

| | | | |
|-------------------|---------------|------------------|-------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |

[Adenoma TGLs = 1-10]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | |
|---|------------------------|------------------|
| * Adrenal Cortex | Hyperplasia | Mild |
| * Adrenal Medulla | Hyperplasia | Mild |
| * Heart | Cardiomyopathy | Minimal |
| | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 4,8-16+6] | | |
| * Kidney | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| | Inflammation | Chronic, Minimal |
| | Mixed Cell Focus | |
| [Mixed Cell Focus TGLs = 15-14] | | |
| * Lung | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLs = 6,7-4+5] | | |
| * Lymph Node, Mediastinal | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 3-3] | | |
| * Mammary Gland | Carcinoma | Multiple |
| | Fibroadenoma | Multiple |
| [Carcinoma TGLs = 11,12-20+19] | | |
| [Fibroadenoma TGLs = 9,10,13-22+23+21+15] | | |
| * Nose | Turbinate | Moderate |
| | Turbinate | Mild |
| | Atrophy | |
| | Hyperostosis | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53878

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--------------------------------|--|--|
| * Pituitary Gland [Adenoma TGLs = 14-10] | Olfactory Epi Pars Distalis | Inflammation Metaplasia Adenoma | Chronic Active, Minimal Respiratory, Mild |
| Pleura Skeletal Muscle [Mesothelioma Malignant TGLs = 2,5-18+17] | | Mesothelioma Malignant Mesothelioma Malignant | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|------------------------------|----------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53879

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--|----------------------------|------|
| * Ovary | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| Vagina | | Granular Cell Tumor Benign | |
| | [Granular Cell Tumor Benign TGLs = 5-10] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------|--|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3-14+15+16] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 4-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53880

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------|----------------------|---------|
| * Pituitary Gland [Adenoma TGLs = 6-10] | Pars Distalis | Adenoma | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 541

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Urinary Bladder | * Uterus | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|--------------------------------------|----------------------|-------------------------|
| Blood Vessel | Aorta | Schwannoma Malignant | Metastatic (Heart) |
| * Eye | Retina | Atrophy | Mild |
| * Harderian Gland | | Schwannoma Malignant | Metastatic (Heart) |
| | [Schwannoma Malignant TGLs = 6-13] | | |
| * Heart | | Schwannoma Malignant | |
| * Kidney | | Schwannoma Malignant | Metastatic (Heart) |
| * Larynx | | Schwannoma Malignant | Metastatic (Heart) |
| * Liver | | Basophilic Focus | |
| | | Fibrosis | Focal, Moderate |
| | [Inflammation TGLs = 11-15] | Inflammation | Chronic, Minimal |
| * Lung | | Schwannoma Malignant | Metastatic (Heart) |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-17+19] | Schwannoma Malignant | Metastatic (Heart) |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 13,14-16+7] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 541

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53881

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|--------------------|
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 7-10] | | | |
| * Salivary Glands | | Schwannoma Malignant | Metastatic (Heart) |
| [Schwannoma Malignant TGLs = 5-18] | | | |
| Skeletal Muscle | | Schwannoma Malignant | Metastatic (Heart) |
| [Schwannoma Malignant TGLs = 3-16] | | | |
| * Spleen | | Schwannoma Malignant | Metastatic (Heart) |
| [Schwannoma Malignant TGLs = 12-6] | | | |
| * Thyroid Gland | | Schwannoma Malignant | Metastatic (Heart) |
| * Trachea | | Schwannoma Malignant | Metastatic (Heart) |

PRIMARY CAUSE OF DEATH - Heart Schwannoma Malignant

Animal Note: TGLs 8,9,10 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 719

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

| | | | |
|----------------------|---------------------------------|------------------|------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Fatty Change TGLs = 4-6] | | |
| | [Mixed Cell Focus TGLs = 3-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Foreign Body | |
| | Respirat Epith | Hyperostosis | Minimal |
| | | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 719

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53882

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|----------------|---------|------|
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |
| * Thyroid Gland | Follicular Cel | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 571

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------------|--------------------------------|--------------|-----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 6-9] | | |
| | Peritoneum | Inflammation | Acute, Moderate |
| | [Inflammation TGLs = 3-6+14] | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Moderate |
| | [Angiectasis TGLs = 2-10] | | |
| * Spleen | | Inflammation | Acute, Mild |
| | [Inflammation TGLs = 4-6] | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Moderate |
| * Stomach, Glandular | | Necrosis | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 571

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53883

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Inflammation

Animal Note: TGLs 1,5,6,7 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------------|-------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Pheochromocytoma Benign | |
| * Clitoral Gland | | Hyperplasia | Minimal |
| * Eye | Retina | Atrophy | Marked |
| | | Cataract | Moderate |
| | [Cataract TGLs = 1-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 4-6+18] | | |
| | [Fatty Change TGLs = 4-18] | | |
| | [Mixed Cell Focus TGLs = 4-18] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53884

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------------|---------------|--------------|-------------------------|
| [Fibroadenoma TGLs = 2,3-14+15] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | Acinus | Atrophy | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--|--------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 6-6] | | |
| | [Clear Cell Focus TGLs = 6-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Marked |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| | [Fibroadenoma TGLs = 9-23] | | |
| | [Hyperplasia TGLs = 3,4,8,9-16+17+18+19+20+21+22+23] | | |
| * Nose | Turbinates | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53885

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|-------------------------------|---------------|-----------------------|
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 7-10] | | |

Animal Note: TGL 2 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 2-6] | | |
| | [Mixed Cell Focus TGLs = 2-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Marked |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53886

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLs = 1-10]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 661

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|------------------|------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Carcinoma | Metastatic (Pituitary Gland) |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Fibrosis | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| | [Carcinoma TGLs = 3-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 4-10] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|-------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 2-14] | | |
| * Eye | | Degeneration | Marked |
| | [Degeneration TGLs = 1-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Pars Distalis | Angiectasis | Moderate |
| | [Angiectasis TGLs = 3-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 451

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|-------------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Infarct | Mild |
| | | Nephropathy | Minimal |
| | [Infarct TGLs = 4-7] | | |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | | Thrombosis | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 451

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53889

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Necrosis

Minimal

[Necrosis TGLs = 3-10]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|---------------|------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-15+16] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 709

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|--|------------|----------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLs = 2-15] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| [Leukemia Mononuclear TGLs = 4-6+17] | | | |
| [Mixed Cell Focus TGLs = 7-17] | | | |
| * Lymph Node, Mediastinal | | Hyperplasia | Plasma Cell, Mild |
| [Hyperplasia TGLs = 3-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-17] | | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 709

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53891

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--------------------------------|---------------------------------------|--|
| * Pituitary Gland [Adenoma TGLs = 6-10] | Olfactory Epi Pars Distalis | Inflammation Metaplasia Adenoma | Chronic Active, Minimal Respiratory, Moderate |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------------|---------------------|

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Moderate |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | [Basophilic Focus TGLs = 3-15] | | |
| | [Clear Cell Focus TGLs = 3-15] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53892

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------|------------|-----------------------|
| * Pancreas | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Acinus | Adenoma | |
| [Adenoma TGLs = 4-10] | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Adenoma | |
| [Adenoma TGLs = 1-3] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|-------------------|--------------------------------------|------------------------------|--------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| | | Metaplasia | Squamous, Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | [Basophilic Focus TGLs = 5-6] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15+16] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3,6-7+14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | | Granulosa-Theca Tumor Benign | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53893

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 4-10]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 661

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Hydrocephalus | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| Mesentery | | Inflammation | Chronic Active, Mild |
| | [Inflammation TGLs = 3-10] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 2-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Moderate |
| * Clitoral Gland | | Adenoma | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 3-19] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Skin | Subcut Tiss | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 1-15+16+17+18] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

| | | | |
|---------------------|------------------------------|----------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | [Hepatodiaphragmatic Nodule | TGLs = 2-6] | |
| | Mesentery | Fat | |
| | [Necrosis | TGLs = 3-7] | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| * Parathyroid Gland | | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53896

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Thymoma Benign

[Thymoma Benign TGLs = 1-3]

* Thyroid Gland

C Cell

Carcinoma

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 535

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Larynx | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 5-9] | | |
| * Heart | | Thrombosis | Moderate |
| | [Thrombosis TGLs = 4-6] | | |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Necrosis | Minimal |
| | [Leukemia Mononuclear TGLs = 1-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | | Thrombosis | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 535

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53897

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-10]

* Spleen

Leukemia Mononuclear

* Stomach, Forestomach

Necrosis

Mild

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------------|-------------------------|-----------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Carcinoma | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 3-6] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| Oral Mucosa | | Squamous Cell Papilloma | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Skin | Subcut Tiss | Neural Crest Tumor | |
| | [Neural Crest Tumor TGLs = 4-16] | | |
| * Spleen | | Inflammation | Granulomatous, Marked |
| | [Inflammation TGLs = 1-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53898

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------|--------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Hyperplasia | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | Bronchiole | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | [Inflammation TGLs = 8-5] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-3] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-15+16+14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53899

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------------|----------------------|-----------------------|
| Mesentery [Necrosis TGLs = 3,7-7+14] | Fat | Necrosis | Mild |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| [Dilatation TGLs = 6-9] | Bursa | Dilatation | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|-------------------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 2-6] | | |
| | [Mixed Cell Focus TGLs = 2-6] | | |
| * Lung | Bronchiole | Hyperplasia | Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 4-16] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Basophilic Focus TGLs = 7-14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3,4-15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-17] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53901

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Basal Cell Adenoma

[Basal Cell Adenoma TGLs = 1-14]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------|--------------------------------------|--------------------|------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Carcinoma | Metastatic (Pituitary Gland) |
| * Clitoral Gland | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Fatty Change | Focal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 4-19] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-20] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53902

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|----------------|-------------|-----------------------|
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| [Carcinoma TGLs = 5-10] | Pars Distalis | Carcinoma | |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|--------------------------|-----------------------------|-------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Pancreas | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Thymus |
| * Thyroid Gland | * Trachea | * Uterus | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------------|---------------------|

AUTO PRECLUDES DIAG.

| | |
|--------------------------|----------------------------|
| * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------|------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Rectum | | Leiomyosarcoma | Metastatic (Vagina) |
| * Islets, Pancreatic | | Carcinoma | |
| | [Carcinoma TGLs = 3-6] | | |
| * Kidney | | Hydronephrosis | Moderate |
| | | Mineralization | Moderate |
| | Papilla | Necrosis | Mild |
| | | Nephropathy | Moderate |
| | [Hydronephrosis TGLs = 4-7] | | |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 7-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 25 ppm

DISP: Natural Death

HISTO: 53903

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------|---------------|----------------|---------------------|
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Mild |
| [Dilatation TGLs = 5-9] | Bursa | Dilatation | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| [Hyperplasia TGLs = 2-10] | | | |
| * Stomach, Glandular | | Mineralization | Moderate |
| * Urinary Bladder | | Leiomyosarcoma | Metastatic (Vagina) |
| Vagina | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLs = 6-14] | | | |

PRIMARY CAUSE OF DEATH - Vagina Leiomyosarcoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 551

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | |
|--|--------------------|------------------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Eosinophilic Focus | |
| | Inflammation | Chronic, Minimal |
| | Mixed Cell Focus | |
| [Mixed Cell Focus TGLs = 4-14] | | |
| * Mammary Gland | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2-15+16+17+18+19] | | |
| * Nose | Turbinate | Atrophy |
| | Turbinate | Hyperostosis |
| | | Inflammation |
| | Olfactory Epi | Metaplasia |
| * Ovary | Bursa | Dilatation |
| [Dilatation TGLs = 5-9] | | |
| * Pancreas | Acinus | Atrophy |
| * Pituitary Gland | Pars Distalis | Adenoma |
| [Adenoma TGLs = 3-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 63905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|-----------------------|
| * Clitoral Gland | | Inflammation | Chronic Active, Mild |
| * Eye | Retina | Atrophy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 3-6] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 2-9] | | |
| * Pancreas | Acinus | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 63905

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 625

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|------------------|-------------------------|
| * Bone | | Osteoma | |
| | [Osteoma TGLs = 6-14] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-15+16] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 7-10] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 633

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------|------------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| * Mammary Gland | | Galactocele | Moderate |
| | [Galactocele TGLs = 6-9] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-10] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 694

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------|--|----------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Larynx | | Inflammation | Chronic Active, Moderate |
| | | Metaplasia | Squamous, Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Hepatodiaphragmatic Nodule TGLs = 7-16] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 2-3] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 694

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53908

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------|-------------|----------|
| * Ovary [Dilatation TGLs = 3-17] | Bursa | Dilatation | Moderate |
| * Pituitary Gland [Adenoma TGLs = 8-10] | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 600

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+16] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 600

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53909

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 4-15]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--------------------------------------|-------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 4-14] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-14] | | |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 6-10] | | |
| * Thyroid Gland | C Cell | Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53910

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLs = 3-3]

* Uterus

Polyp Stromal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53911

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|-------------------------------------|----------------------|------|
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 5-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 2-10] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|-------------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Eye | | Degeneration | Marked |
| | [Degeneration TGLs = 2-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Hyperplasia | Moderate |
| | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53912

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

Moderate

Pars Distalis

Angiectasis

[Adenoma TGLs = 3-10]

[Angiectasis TGLs = 3-10]

* Thyroid Gland

C Cell

Carcinoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 613

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Bronchial |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|------------------|--------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 3-16] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-15] | | |
| * Spleen | | Hyperplasia | Lymphoid, Moderate |
| | [Hyperplasia TGLs = 2-14] | | |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 691

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Trachea | | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

INSUFFICIENT TISSUE

* Intestine Large, Cecum

OBSERVATIONS

| | | | |
|-------------------|-------------------------------------|----------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 9-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 691

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53914

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|---|----------------------|------------------------|
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-21] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10-22] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Galactocele | Mild |
| | | Leukemia Mononuclear | |
| | [Fibroadenoma TGLs = 1,6-14+15+16+19] | | |
| | [Galactocele TGLs = 2-21] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 7-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-18] | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Urinary Bladder | | Leukemia Mononuclear | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 8-10] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 610

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------------------------|------------------------|---|---|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation Hyperplasia | Moderate Mild |
| [Hematopoietic Cell Proliferation | TGLs = 10-7] | | |
| * Kidney | | Mesenchymal Tumor Malignant | |
| [Mesenchymal Tumor Malignant | TGLs = 8-7+14] | | |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Liver | | Hepatodiaphragmatic Nodule Inflammation | Chronic, Minimal |
| [Hepatodiaphragmatic Nodule | TGLs = 9-15] | | |
| * Lung | | Mesenchymal Tumor Malignant | Metastatic (Kidney) |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma | TGLs = 4-16] | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 7-15] | | |
| * Nose | Turbinate Turbinate | Atrophy Hyperostosis Inflammation | Moderate Minimal Chronic Active, Mild |
| * Ovary | Olfactory Epi Bursa | Metaplasia Dilatation | Respiratory, Mild Mild |
| [Dilatation | TGLs = 5-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 610

DOSE: 25 ppm

DISP: Moribund Sacrifice

HISTO: 53915

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Ulcer

Mild

* Stomach, Glandular

Necrosis

Moderate

[Necrosis TGLs = 11-10]

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 6-10]

PRIMARY CAUSE OF DEATH - Kidney Mesenchymal Tumor Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Eye | [Degeneration TGLs = 1-13] | Degeneration | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| | [Mixed Cell Focus TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Hypertrophy | Mild |
| | [Angiectasis TGLs = 4-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53916

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|--|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Mild |
| | | [Clear Cell Focus TGLs = 3-15] | |
| | | [Hepatodiaphragmatic Nodule TGLs = 2-14] | |
| * Mammary Gland | | Fibroadenoma | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 1-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Brain | | Oligodendroglioma Benign | |
| * Clitoral Gland | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 2-6] | | |
| | [Clear Cell Focus TGLs = 2-6] | | |
| | [Mixed Cell Focus TGLs = 2-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mediastinal | | Carcinoma | Metastatic (Thyroid Gland) |
| * Nose | Turbinate | Atrophy | Mild |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 53918

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------|-------------|---------------------|
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Marked |
| [Dilatation TGLs = 3-9] | Bursa | Dilatation | Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| [Carcinoma TGLs = 1-3] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 583

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

AUTO PRECLUDES DIAG.

| | |
|--------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon |
|--------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|------------------------------|-----------------------|----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Mild |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 583

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53769

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|-----------------|--|------------------|--------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | [Clear Cell Focus TGLs = 1,4,5-15+6] | | |
| * Lung | Alveolar Epith | Metaplasia | Squamous, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 3-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------|-----------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland | * Thyroid Gland |
|-------------------------|--------------------------|---------------------|-----------------|

OBSERVATIONS

| | | | |
|--|----------------|--------------------|--------------------------|
| * Adrenal Cortex | | Adenoma | |
| | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 2-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Uterus | | Sarcoma Stromal | |
| [Sarcoma Stromal TGLs = 1-14+15+16+18+19+20+21+22] | | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | |
|---------------------------|---------------------------------------|------------------|
| * Adrenal Cortex | Leukemia Mononuclear | |
| * Bone Marrow | Leukemia Mononuclear | |
| * Heart | Leukemia Mononuclear | |
| * Intestine Small, Ileum | Leukemia Mononuclear | |
| * Kidney | Leukemia Mononuclear | |
| | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| | Fatty Change | Diffuse, Mild |
| | Inflammation | Chronic, Minimal |
| | Leukemia Mononuclear | |
| | [Inflammation TGLs = 6-6] | |
| | [Leukemia Mononuclear TGLs = 5,7-6] | |
| * Lung | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-4+5] | |
| * Lymph Node, Bronchial | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | |
| * Lymph Node, Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 15-21] | |
| * Mammary Gland | Galactocele | Moderate |
| | [Galactocele TGLs = 13,14-19+20] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53772

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|-----------------------|
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 11,12-17+18] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Moderate |
| [Dilatation TGLs = 9-9] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 8-15] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Sarcoma Stromal | |
| [Sarcoma Stromal TGLs = 10-16] | | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: TGL 6 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 2-14] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Focal |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------|--------------------------------------|--------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 5-6] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15+16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Parathyroid Gland | | Angiectasis | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53774

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|---------------|-------------|---------|
| [Angiectasis TGLs = 3-3] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| [Hyperplasia TGLs = 4-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 634

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-----------------|--|------------------------|--------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| | [Necrosis TGLs = 4-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 6-9] | | |
| Mesentery | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 5-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Mild |
| * Ovary | | Mesothelioma Malignant | |
| * Pancreas | | Mesothelioma Malignant | |
| Peritoneum | | Mesothelioma Malignant | |
| Skeletal Muscle | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 3-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 634

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53775

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Moderate

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 672

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|---------------------|--------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | | |

OBSERVATIONS

| | | | |
|-----------------------------|---------------|--------------|-------------------------|
| * Liver | | Inflammation | Chronic, Minimal |
| [Inflammation TGLs = 1-6] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Moderate |
| [Dilatation TGLs = 2-9] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Parathyroid Gland | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|----------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Focal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Fatty Change TGLs = 6-6] | | |
| | [Mixed Cell Focus TGLs = 5-14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 4-9] | | |
| * Pancreas | Acinus | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53777

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------|------------------|------|
| * Pituitary Gland [Adenoma TGLs = 3-10] | Pars Distalis | Adenoma | |
| * Salivary Glands | | Basophilic Focus | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 510

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|-------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4-15+16+17+18] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Olfactory Epi | Metaplasia | Squamous, Minimal |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 6-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | | |
| * Thymus | | Thymoma Malignant | |
| | [Thymoma Malignant TGLs = 5-3+14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 511

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------------------|----------------|----------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| [Hepatodiaphragmatic Nodule | TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma | TGLs = 1-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 4-15] | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 511

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53779

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--------------------------------|---------------------------|-------------------------------|
| * Pituitary Gland [Angiectasis TGLs = 5-10] | Olfactory Epi Pars Distalis | Metaplasia Angiectasis | Respiratory, Moderate Mild |
| * Spleen | | Leukemia Mononuclear | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Mild |
| * Thyroid Gland [Carcinoma TGLs = 2-3] | C Cell C Cell | Carcinoma Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 512

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------------------------|----------------|------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Mild |
| [Clear Cell Focus TGLs = 4-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | Alveolar Epith | Metaplasia | Squamous, Mild |
| [Metaplasia TGLs = 3-5] | | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 2,6-15+16+9] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 5-10] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 512

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53780

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Carcinoma

[Carcinoma TGLs = 1-14]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 513

TRT#: 6

SEX: Female

DAY ON TEST: 621

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|---------------------------|-------------------------------------|------------------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | | |
| | [Leukemia Mononuclear TGLs = 1-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-15+16] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 513

TRT#: 6

SEX: Female

DAY ON TEST: 621

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53781

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|-----------------------|
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Leukemia Mononuclear | Moderate |
| * Pituitary Gland | Pars Distalis | Atrophy | Mild |
| | | Hyperplasia | |
| * Spleen | | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 514

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|------------------|---|----------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Eye | Retina | Atrophy | Moderate |
| | | Cataract | Mild |
| | [Cataract TGLs = 1-13] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | [Angiectasis TGLs = 8-17] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 7-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,4-18+15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 514

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53782

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|---------------------------------|---------------|-----------------|
| * Pituitary Gland | Pars Distalis | Adenoma |
| [Adenoma TGLs = 6-10] | | |
| * Skin | | Keratoacanthoma |
| [Keratoacanthoma TGLs = 3-14] | | |
| * Thyroid Gland | C Cell | Carcinoma |
| [Carcinoma TGLs = 5-3] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 515

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| Lacrimal Gland | | Cytoplasmic Alteration | Mild |
| | [Cytoplasmic Alteration TGLs = 3-14] | | |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Hepatodiaphragmatic Nodule TGLs = 1-6] | | |
| | [Mixed Cell Focus TGLs = 1-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 2-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 516

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|-------------------------|--------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 517

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-----------------|-----------------------------------|--------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 2-6] | | |
| | [Eosinophilic Focus TGLs = 2-6] | | |
| | [Mixed Cell Focus TGLs = 2-6] | | |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | [Inflammation TGLs = 1-5] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 5,6-16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-14] | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Marked |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 517

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53785

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--------------------------------|-----------------------|-----------------------|
| * Pituitary Gland | Olfactory Epi Pars Distalis | Metaplasia Adenoma | Respiratory, Moderate |
| * Skin | | | |
| Note: TGL 4 and 7 were normal subcutaneous fat. | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 518

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-----------------------------|----------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| [Degeneration TGLs = 3-6] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 5-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| [Dilatation TGLs = 2-9] | | | |
| * Pancreas | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 4-10] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 518

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53786

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|--------------------------------|----------------|------|
| * Skin | | Hyperkeratosis | Mild |
| | [Hyperkeratosis TGLs = 1-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 519

TRT#: 6

SEX: Female

DAY ON TEST: 663

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|-----------------------|
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Adenoma | |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 7-15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 6-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 519

TRT#: 6

SEX: Female

DAY ON TEST: 663

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53787

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 4-14]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 520

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|--------------------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| | [Cardiomyopathy TGLs = 2-6] | | |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 4-6] | | |
| | [Mixed Cell Focus TGLs = 4,6-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | | Granulosa Cell Tumor Malignant | |
| | [Granulosa Cell Tumor Malignant TGLs = 5-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 520

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53788

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 3-10]

* Thyroid Gland

C Cell

Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 521

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|------------------|---------------------------------|------------------------------|------------------------|
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 2-14] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Focal |
| | | Inflammation | Chronic, Mild |
| | [Clear Cell Focus TGLs = 4-6] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-7] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 521

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53789

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|---------------|-------------|----------|
| [Dilatation TGLs = 3-9] | | | |
| * Pancreas | Acinus | Atrophy | Marked |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 6-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 522

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 7-6] | | |
| | [Clear Cell Focus TGLs = 7-6] | | |
| | [Mixed Cell Focus TGLs = 7-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Lymph Node, Mediastinal | | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 3-3] | | |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | |
| | [Carcinoma TGLs = 2-15] | | |
| | [Fibroadenoma TGLs = 1-14] | | |
| Mesentery | Fat | Hemorrhage | Mild |
| | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 522

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53790

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | | |
|-------------------|-------------------------------|---------------|-------------------------|--|
| | [Hemorrhage TGLs = 4-14] | | | |
| | [Necrosis TGLs = 5-7] | | | |
| * Nose | Turbinate | Atrophy | Marked | |
| | Turbinate | Hyperostosis | Moderate | |
| | | Inflammation | Chronic Active, Minimal | |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate | |
| * Pituitary Gland | Pars Distalis | Adenoma | | |
| | [Adenoma TGLs = 8-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal | |
| * Uterus | | Polyp Stromal | | |
| | [Polyp Stromal TGLs = 6-10] | | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 523

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|---|--|------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 4-7] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus Clear Cell Focus Inflammation Mixed Cell Focus | Chronic, Mild |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| Lymph Node | Deep Cervical | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 6-14] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 523

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53791

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|---------------|-------------|-----------------------|
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| [Hyperplasia TGLs = 2-10] | Pars Distalis | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 524

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------------|---------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Harderian Gland | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| [Mixed Cell Focus TGLs = 3-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-15+16] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Moderate |
| [Dilatation TGLs = 2-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

ANIMAL ID: 524

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53792

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas

Acinus

Atrophy

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 5-10]

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 525

TRT#: 6

SEX: Female

DAY ON TEST: 606

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|--------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone | | Chondroma | |
| | [Chondroma TGLs = 2-12] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Mild |
| | [Necrosis TGLs = 3-14] | | |
| Mesentery | | Fat | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Nose | | Turbinate | Moderate |
| | | Turbinate | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | | Olfactory Epi | Respiratory, Moderate |
| * Ovary | | Bursa | Mild |
| | [Dilatation TGLs = 5-9] | | |
| * Pituitary Gland | | Pars Distalis | Moderate |
| | [Angiectasis TGLs = 1-10] | | |
| * Thyroid Gland | | C Cell | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 525

TRT#: 6

SEX: Female

DAY ON TEST: 606

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53793

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 6-10]

PRIMARY CAUSE OF DEATH

- Bone Chondroma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 526

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Necrosis | Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Mild |
| * Ovary | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 2-9] | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 526

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53794

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 1-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 527

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | | |
|------------------|-------------------------|--------------------------|---------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|------------------|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|------------------------|--|---|
| * Kidney | | Hyperplasia Nephropathy | Oncocytic, Minimal Minimal |
| * Liver | | Basophilic Focus Clear Cell Focus Fatty Change Inflammation | Diffuse, Minimal Chronic, Mild |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland [Fibroadenoma TGLs = 3-14] | | Fibroadenoma | |
| * Nose | Turbinate Turbinate | Atrophy Hyperostosis Inflammation | Marked Moderate Chronic Active, Minimal |
| * Ovary | Olfactory Epi Bursa | Metaplasia Dilatation | Respiratory, Moderate Moderate |
| [Dilatation TGLs = 1-9] | | | |
| * Pituitary Gland [Adenoma TGLs = 2-10] | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 528

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| | | Basophilic Focus | |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-4+5] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15+16] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-18] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 528

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53796

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|-------------------------|
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Follicle | Cyst | Mild |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-18] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 529

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Parathyroid Gland | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | |
|---|----------------------------|------------------|
| * Adrenal Cortex | Hyperplasia | Mild |
| * Heart | Cardiomyopathy | Mild |
| * Intestine Large, Rectum | Adenoma | |
| [Adenoma TGLs = 12-8] | | |
| * Kidney | Nephropathy | Mild |
| * Liver | Angiectasis | Moderate |
| | Basophilic Focus | |
| | Clear Cell Focus | |
| | Eosinophilic Focus | |
| | Fatty Change | Diffuse, Minimal |
| | Hepatodiaphragmatic Nodule | |
| | Inflammation | Chronic, Mild |
| | Leukemia Mononuclear | |
| [Angiectasis TGLs = 8,9,10-6+7+15] | | |
| [Clear Cell Focus TGLs = 6-14] | | |
| [Eosinophilic Focus TGLs = 7-14] | | |
| [Hepatodiaphragmatic Nodule TGLs = 5-6] | | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,3-14+16+17] | | |
| * Nose | Turbinate | Moderate |
| | Atrophy | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 529

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53797

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|----------------------|-------------------------|
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | | Cyst | Moderate |
| | [Cyst TGLs = 11-9] | | |
| * Pancreas | Acinus | Atrophy | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Salivary Glands | | Basophilic Focus | |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 4-9+18+19+20+21+22+23] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 530

TRT#: 6

SEX: Female

DAY ON TEST: 514

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

MISSING

| | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---|----------------------|-------------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | Renal Tubule | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 2-7] | | |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| * Lung | | | |
| | [Leukemia Mononuclear TGLs = 1-17] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3,4-14+15] | | |
| * Stomach, Glandular | | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 530

TRT#: 6

SEX: Female

DAY ON TEST: 514

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53798

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 531

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-----------------|---|------------------|--------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Larynx | | Inflammation | Chronic Active, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 5-6] | | |
| | [Fatty Change TGLs = 5-6] | | |
| * Lung | Bronchiole | Hyperplasia | Mild |
| | Alveolar Epith | Hyperplasia | Mild |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15+16+17] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 3-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 531

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53799

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------|-------------|------|
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 532

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|--------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Eye | Retina | Atrophy | Marked |
| | [Cataract TGLs = 2-13] | Cataract | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Mild |
| | | Fatty Change | Diffuse, Marked |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 603

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Adrenal Medulla | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Mammary Gland |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Bone | | Hyperostosis | Moderate |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-15] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-4+5] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-7] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 603

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53801

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|--------------------------------------|----------------------------------|------|
| * Spleen | [Leukemia Mononuclear TGLs = 3-10] | Fibrosis Leukemia Mononuclear | Mild |
| | [Fibrosis TGLs = 5-14] | | |
| * Thymus | [Leukemia Mononuclear TGLs = 4-14] | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 534

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------|------------------|-------------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 1-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 535

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|-------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Pituitary Gland |
|-------------------------|--------------------------|---------------------------|-------------------|

OBSERVATIONS

| | | |
|--|------------------------|---------------|
| * Adrenal Cortex | Leukemia Mononuclear | |
| * Adrenal Medulla | Hyperplasia | Mild |
| | Leukemia Mononuclear | |
| * Bone Marrow | Leukemia Mononuclear | |
| * Islets, Pancreatic | Carcinoma | |
| [Carcinoma TGLs = 13-22] | | |
| * Kidney | Nephropathy | Mild |
| * Liver | Basophilic Focus | |
| | Degeneration | Cystic, Mild |
| | Hepatocellular Adenoma | |
| | Inflammation | Chronic, Mild |
| | Leukemia Mononuclear | |
| | Necrosis | Mild |
| [Leukemia Mononuclear TGLs = 8,10,11-23+6] | | |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 12-21] | | |
| * Mammary Gland | Carcinoma | |
| | Fibroadenoma | |
| [Carcinoma TGLs = 6-14+15+16] | | |
| [Fibroadenoma TGLs = 7, 9-17+18] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 535

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53803

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|-------------------------|
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4,5-21+22] | | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Moderate |
| | | Leukemia Mononuclear | |
| [Dilatation TGLs = 3-9] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 1-20] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 536

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 50 ppm

DISP: Natural Death

HISTO: 53804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lung | * Lymph Node, Mesenteric | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|------------------------|---|------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4-15+16+14+17] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5-10] | | |
| * Stomach, Forestomach | | Ulcer | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 514

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------|----------------|------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Moderate |
| [Necrosis TGLs = 4-6] | | | |
| * Lung | | Hemorrhage | Minimal |
| | | Sarcoma | Metastatic (Skeletal Muscle) |
| [Hemorrhage TGLs = 2-4] | | | |
| Lymph Node | Deep Cervical | Hemorrhage | Moderate |
| [Hemorrhage TGLs = 1-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| Skeletal Muscle | | Sarcoma | |
| [Sarcoma TGLs = 5-15] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 514

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53805

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Sarcoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 538

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 6-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4-17+16+15+14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | [Dilatation TGLs = 5-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 539

TRT#: 6

SEX: Female

DAY ON TEST: 579

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|-------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
|-------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Nephropathy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | Deep Cervical | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-14] | | |
| | [Leukemia Mononuclear TGLs = 2-17] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-16] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10-8] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 11-15] | | |
| Mesentery | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 539

TRT#: 6

SEX: Female

DAY ON TEST: 579

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53807

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|--|----------------------|-------------------------|
| | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 9-18] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-9] | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | [Angiectasis TGLs = 3-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5,6-14] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 540

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------------|-----------|------------------|---------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLs = 9-16] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLs = 5-6] | | | |
| [Clear Cell Focus TGLs = 5-6] | | | |
| [Mixed Cell Focus TGLs = 5-6] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Galactocele | Moderate |
| [Fibroadenoma TGLs = 1-17] | | | |
| [Galactocele TGLs = 2-18] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 6-7] | | | |
| * Nose | Turbinate | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 540

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53808

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|------------------------------|--------------|-----------------------|
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Carcinoma | |
| | [Carcinoma TGLs = 7-14+16] | | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 541

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 5-6] | | |
| | [Clear Cell Focus TGLs = 3,5-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 541

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53809

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 6-10]

* Skin

Inflammation

Chronic Active, Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 542

TRT#: 6

SEX: Female

DAY ON TEST: 423

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Bronchial |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thyroid Gland

OBSERVATIONS

| | | | |
|-----------------|---------------------------------------|------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15+16+17] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 543

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-----------------------------------|---------------|--------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Cyst | Moderate |
| [Cyst TGLs = 8-14] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 5-6] | | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2-14+15] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-7] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Mild |
| | | Yolk Sac Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 543

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53811

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------------|---------------|-------------|---------|
| [Dilatation TGLs = 7-9] | | | |
| [Yolk Sac Carcinoma TGLs = 6-9] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 544

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---|--------------------------------|--|---|
| * Clitoral Gland [Hyperplasia TGLs = 5-9] | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver [Basophilic Focus TGLs = 3-6] [Clear Cell Focus TGLs = 3-6] | | Basophilic Focus Clear Cell Focus Inflammation | Chronic, Minimal |
| * Mammary Gland [Fibroadenoma TGLs = 2-14+15] | | Fibroadenoma | |
| Mesentery [Necrosis TGLs = 4-7] | Fat | Necrosis | Mild |
| * Nose | Turbinate Turbinate | Atrophy Hyperostosis Inflammation | Moderate Moderate Chronic Active, Minimal |
| * Pituitary Gland [Hyperplasia TGLs = 1-10] | Olfactory Epi Pars Distalis | Metaplasia Hyperplasia | Respiratory, Moderate Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 544

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53812

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 545

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Eye | | Degeneration | Marked |
| | [Degeneration TGLs = 2-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 545

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53813

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|--|----------------------------------|----------|
| [Hyperplasia TGLs = 3-10] Skeletal Muscle | Fibrosis | Moderate |
| [Fibrosis TGLs = 1-14] * Spleen | Fibrosis Leukemia Mononuclear | Mild |
| [Fibrosis TGLs = 4-6] [Leukemia Mononuclear TGLs = 5-6] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 546

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------------------|--------------------------|
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| [Clear Cell Focus TGLs = 3-6] | | | |
| * Lung | Alveolar Epith | Alveolar/Bronchiolar Adenoma | |
| | | Hyperplasia | Moderate |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 2-16+17] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-14] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | Olfactory Epi | Metaplasia | Respiratory, Marked |
| [Adenoma TGLs = 5-10] | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 546

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53814

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|-------------|-------------|---------|
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLs = 1-15] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 547

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|-------------------------|
| * Eye | | Cataract | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Basophilic Focus TGLs = 4-6] | | |
| | [Clear Cell Focus TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 3-5] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-7] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 547

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53815

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|-------------|-------------|---------|
| * Skin | Subcut Tiss | Sarcoma | |
| [Sarcoma TGLs = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 548

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Ovary | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|---------------------------|---|----------------------|-----------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4,5-15+16] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-8] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Thymus | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 548

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53816

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 549

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---|----------------|----------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLs = 7-7] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| [Fatty Change TGLs = 6-18] | | | |
| * Lung | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| [Pheochromocytoma Malignant TGLs = 2-4+5] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14+15+16] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-19] | | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 549

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 50 ppm

DISP: Moribund Sacrifice

HISTO: 53817

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------|-------------|-----------------------|
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| [Dilatation TGLs = 4-9] | Bursa | Dilatation | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 8-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 5 = NCL

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 550

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 4-6] | | |
| | [Fatty Change TGLs = 4-6] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2,3-14+7] | | |
| * Nose | Turbinate | Atrophy | Moderate |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Periovarn Tiss | Cyst | Mild |
| | [Cyst TGLs = 5-9] | | |
| * Pancreas | | Inflammation | Granulomatous, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 550

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 53818

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mandibular | * Parathyroid Gland | * Skin |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|---------------------------|-------------------------------------|--|-------------------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear Necrosis | Mild |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Nephropathy Hyperplasia Inflammation Leukemia Mononuclear | Minimal Minimal Chronic, Mild |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Leukemia Mononuclear Metaplasia | Respiratory, Moderate |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53669

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|----------------------|--------|
| * Salivary Glands | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1,2-14] | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| | | Ulcer | Marked |
| | [Ulcer TGLs = 6-10] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Thymus | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-3] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Urinary Bladder | | Leukemia Mononuclear | |
| * Uterus | Endometrium | Carcinoma | |
| | | Leukemia Mononuclear | |
| | [Carcinoma TGLs = 5-10] | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 395

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------|-------------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-10] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Moderate |
| * Ovary | Bursa | Dilatation | Mild |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 1-9] | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 395

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53670

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 2-6]

* Stomach, Forestomach

Leukemia Mononuclear

Ulcer

Moderate

* Stomach, Glandular

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 705

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | |
|---------------------------|---|---------------|
| * Adrenal Cortex | Leukemia Mononuclear | |
| * Adrenal Medulla | Leukemia Mononuclear | |
| * Bone Marrow | Leukemia Mononuclear | |
| * Heart | Leukemia Mononuclear | |
| * Kidney | Leukemia Mononuclear | |
| | Nephropathy | Minimal |
| * Liver | Angiectasis | Mild |
| | Basophilic Focus | |
| | Degeneration | Cystic, Mild |
| | Fatty Change | Diffuse, Mild |
| | Inflammation | Chronic, Mild |
| | Leukemia Mononuclear | |
| | [Angiectasis TGLs = 6-18] | |
| | [Degeneration TGLs = 6-18] | |
| | [Leukemia Mononuclear TGLs = 3,4-6+18+19] | |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15+16] | |
| * Nose | Turbinate | Atrophy |
| | | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 705

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53671

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------|--------------------------------------|--|--------------------------------|
| | Turbinate | Hyperostosis Inflammation Leukemia Mononuclear | Mild Chronic Active, Marked |
| | Olfactory Epi | Metaplasia Leukemia Mononuclear | Respiratory, Marked |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma Leukemia Mononuclear | |
| | [Adenoma TGLs = 2-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-20] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| PRIMARY CAUSE OF DEATH | | | |
| | - Spleen | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|-----------|----------------------|----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| [Angiectasis TGLs = 5-14] | | | |
| [Basophilic Focus TGLs = 4-6] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | |
| [Carcinoma TGLs = 1-15] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2,6-7+14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53672

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------|----------------------|-----------------------|
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| [Dilatation TGLs = 3-9] | Bursa | Dilatation | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 7-10] | | | |
| * Spleen | | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 704

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|---------------------|----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14+15] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-17] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Polyp, Inflammatory | Marked |
| [Dilatation TGLs = 2-17] | | Dilatation | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 704

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53673

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

- Nose Polyp, Inflammatory

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

| | | | |
|---------------------------|--|----------------------|-----------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 6-1] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Marked |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-14] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1,8-3+15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53674

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--------------------------------------|----------------------|------------------------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-16+17] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Leukemia Mononuclear | |
| | | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Moderate |
| * Ovary | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |
| * Stomach, Glandular | | Necrosis | Minimal |
| | [Necrosis TGLs = 7-10] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|-----------------|---|------------------|------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 7-6] | | |
| | [Mixed Cell Focus TGLs = 7-6] | | |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | [Carcinoma TGLs = 2-16] | | |
| | [Fibroadenoma TGLs = 1,2,6-14+16+17+18+19+15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53675

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------|-------------|---------|
| [Dilatation TGLs = 3-9] | | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|--------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 3,4,5,6-6+14+15+16] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17+18+19] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-7] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Carcinoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 642

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--------------------------|------------------------------------|------------------|--------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Minimal |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Metaplasia | Squamous, Mild |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 1-3] | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 6-15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 642

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53677

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------|-----------------------------------|----------------|
| * Ovary | Bursa | Polyp, Inflammatory Dilatation | Mild Marked |
| [Dilatation TGLs = 4-9] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 567

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

| | |
|-------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
|-------------------------|---------------------------|

AUTO PRECLUDES DIAG.

| | | |
|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|----------------------------|

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

| | | | |
|----------------------|--------------------------|-----------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Stomach, Glandular | | Necrosis | Mild |
| | [Necrosis TGLs = 2-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 567

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53678

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 1-14]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 711

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---|----------------|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 9-6] | | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| | | Mixed Cell Focus | |
| [Clear Cell Focus TGLs = 7-6] | | | |
| [Mixed Cell Focus TGLs = 6-14] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,2,3-15+17+18+16] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 8-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 711

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53679

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------|---------------|---------|
| * Ovary [Dilatation TGLs = 4-9] | Bursa | Dilatation | Mild |
| Peritoneum | Mesothelium | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus [Polyp Stromal TGLs = 5-10] | | Polyp Stromal | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 712

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|--------------------------|---|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Clitoral Gland | | Carcinoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| Lacrimal Gland | | Degeneration | Mild |
| | [Degeneration TGLs = 8-22] | | |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 11-6] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4-14+15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5,6,7,10-18+19+20+21] | | |
| * Nose | Turbinates | Atrophy | Marked |
| | Turbinates | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 712

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53680

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------|---------------------------|-----------------------|
| * Pituitary Gland | Olfactory Epi Pars Distalis | Metaplasia Hyperplasia | Respiratory, Moderate |
| * Spleen | | Leukemia Mononuclear | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 713

TRT#: 8

SEX: Female

DAY ON TEST: 655

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|------------------|-------------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|------------------|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-----------------|------------------------------------|--------------------|-------------------------|
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| | [Fatty Change TGLs = 3-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 4-15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 6-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 713

TRT#: 8

SEX: Female

DAY ON TEST: 655

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53681

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 2-10]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 714

TRT#: 8

SEX: Female

DAY ON TEST: 677

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | Retina | Atrophy | Moderate |
| | | Cataract | Mild |
| | [Cataract TGLs = 5-13] | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Moderate |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinates | Atrophy | Marked |
| | Turbinates | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 714

TRT#: 8

SEX: Female

DAY ON TEST: 677

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53682

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|-----------------------|
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| [Dilatation TGLs = 1-9] | Bursa | Dilatation | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 6-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 2-14] | | Necrosis | Moderate |
| [Necrosis TGLs = 3-15] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 715

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------------|--|----------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-9+15+16+14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 3-9] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 715

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53683

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------|----------------------|------|
| * Pancreas | Acinus | Atrophy | Mild |
| * Pituitary Gland [Adenoma TGLs = 5-10] | Pars Distalis | Adenoma | |
| * Spleen | | Leukemia Mononuclear | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 716

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|----------|
| * Lymph Node, Bronchial | * Thymus |
|-------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|---|----------------------|---------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 7,11-6+16] | | |
| * Lung | | Leukemia Mononuclear | |
| | Lymph Node Deep Cervical | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-18] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-17] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10-8] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 716

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53684

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|----------------|----------------------|------------------------|
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 2-14] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 8-17] | | | |
| * Nose | Turbinat | Atrophy | Marked |
| | Turbinat | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Dilatation | Moderate |
| [Dilatation TGLs = 9-9] | | | |
| * Pituitary Gland | Pars Distalis | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 5-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 6-16] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 717

TRT#: 8

SEX: Female

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|--|----------------------------|------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Marked |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLs = 8-14] | | |
| | [Leukemia Mononuclear TGLs = 9,11-6+18] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-17] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 717

TRT#: 8

SEX: Female

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53685

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--------------------------------|-----------------------|----------------|
| * Pituitary Gland | Olfactory Epi Pars Distalis | Metaplasia Adenoma | Squamous, Mild |
| [Adenoma TGLs = 10-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3,7-15] | | | |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLs = 4-10] | | | |
| Vagina | | Polyp | |
| [Polyp TGLs = 5-16] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 718

TRT#: 8

SEX: Female

DAY ON TEST: 579

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|-----------------------|
| * Clitoral Gland | | Carcinoma | |
| [Carcinoma TGLs = 2-16] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Mild |
| [Necrosis TGLs = 5-6] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 7-17] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLs = 3-15] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Clitoral Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 719

TRT#: 8

SEX: Female

DAY ON TEST: 712

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|--------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| | | Carcinoma | |
| | [Carcinoma TGLs = 1-15] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 3-14] | | |
| | [Mixed Cell Focus TGLs = 3-14] | | |
| * Mammary Gland | | Carcinoma | |
| | [Carcinoma TGLs = 2-16] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-16] | | |
| * Nose | Turbinate | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 719

TRT#: 8

SEX: Female

DAY ON TEST: 712

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53687

ORGAN AND ACCOUNTABLE SITE STATUS

Chondroma

Turbinate

Hyperostosis

Moderate

Respirat Epith

Hyperplasia

Mild

Inflammation

Chronic Active, Marked

Olfactory Epi

Metaplasia

Respiratory, Marked

[Chondroma TGLs = 6-11]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 4-10]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 720

TRT#: 8

SEX: Female

DAY ON TEST: 642

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|----------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Mild |
| * Ovary | Bursa | Dilatation | Marked |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 3-15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 720

TRT#: 8

SEX: Female

DAY ON TEST: 642

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53688

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 8-10]

* Spleen

Leukemia Mononuclear
Necrosis

Moderate

[Leukemia Mononuclear TGLs = 4-14]

[Necrosis TGLs = 5,6,7-14]

* Stomach, Forestomach

Leukemia Mononuclear

* Stomach, Glandular

Leukemia Mononuclear

Necrosis

Mild

* Thymus

Leukemia Mononuclear

* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 721

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| [Clear Cell Focus TGLs = 3-6] | | | |
| * Lung | Alveolar Epith | Metaplasia | Squamous, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-14] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Mild |
| [Dilatation TGLs = 2-9] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 721

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53689

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 722

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| | | Fatty Change | Diffuse, Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 5-15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 722

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53690

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|----------------|----------------------|--------------------|
| | Respirat Epith | Metaplasia | Squamous, Moderate |
| | | Thrombosis | Mild |
| Oral Mucosa | Pharyngeal | Hyperplasia | Squamous, Moderate |
| [Hyperplasia TGLs = 6-16] | | | |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 2-14] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| PRIMARY CAUSE OF DEATH | - Spleen | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 723

TRT#: 8

SEX: Female

DAY ON TEST: 670

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------|------------------------|
| * Adrenal Cortex | | Adenoma | |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Marked |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Moderate |
| | [Fatty Change TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 723

TRT#: 8

SEX: Female

DAY ON TEST: 670

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53691

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLs = 2-3]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 724

TRT#: 8

SEX: Female

DAY ON TEST: 655

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | |
|-------------------------|--------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Thymus |
|-------------------------|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 724

TRT#: 8

SEX: Female

DAY ON TEST: 655

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53692

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|---------------------|
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Moderate |
| * Ovary | Bursa | Dilatation | Marked |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 2-9] | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-14] | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Mild |
| | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 725

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Clitoral Gland | | Carcinoma | |
| | [Carcinoma TGLs = 1-9] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| | [Clear Cell Focus TGLs = 5-7] | | |
| | [Inflammation TGLs = 6-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 3-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 725

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53693

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------|------------|---------------------|
| * Pancreas | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Acinus | Atrophy | Mild |
| [Adenoma TGLs = 4-10] | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 726

TRT#: 8

SEX: Female

DAY ON TEST: 628

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lung | * Ovary | * Parathyroid Gland |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

| | | | |
|--------------------------|------------------------------------|--------------------|-----------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Mild |
| | | Necrosis | Minimal |
| | [Inflammation TGLs = 2,3-6] | | |
| Lymph Node | Renal | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 6-14] | | |
| * Lymph Node, Bronchial | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 4-7] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-9] | | |
| * Lymph Node, Mesenteric | | Inflammation | Granulomatous, Marked |
| | [Inflammation TGLs = 8-8] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 7-15+16] | | |
| Mesentery | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 5-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 726

TRT#: 8

SEX: Female

DAY ON TEST: 628

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53694

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|-------------------------|---------------------------------------|--|
| * Pancreas | Olfactory Epi Acinus | Inflammation Metaplasia Atrophy | Chronic Active, Marked Respiratory, Marked Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Salivary Glands | | Basophilic Focus | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 727

TRT#: 8

SEX: Female

DAY ON TEST: 717

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|-------------------------------------|----------------------|-------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | | Necrosis | Moderate |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 5,6-15+16] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 727

TRT#: 8

SEX: Female

DAY ON TEST: 717

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53695

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|--------------------------------------|----------------------|------------------------|
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 3-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-14] | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 7-14] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 728

TRT#: 8

SEX: Female

DAY ON TEST: 683

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | | | |
|-------------------------|--------------------------|---------------------------|----------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|-------------------------|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | | |
|--------------------------|---|----------------------|------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Moderate |
| | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Moderate |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 6-21] | | |
| | [Mixed Cell Focus TGLs = 6-21] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-4+5] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-22] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-14+15+16+17+18+19] | | |
| * Nose | Turbinates | Atrophy | Marked |
| | Turbinates | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 728

TRT#: 8

SEX: Female

DAY ON TEST: 683

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53696

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|------------------------|--|--|
| * Ovary | Olfactory Epi Bursa | Inflammation Metaplasia Dilatation Leukemia Mononuclear | Chronic Active, Minimal Respiratory, Moderate Marked |
| [Dilatation TGLs = 5-9] | | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-10] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 4-22] | | | |
| * Stomach, Forestomach | | Hyperplasia | Squamous, Moderate |
| [Hyperplasia TGLs = 9-23] | | | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 729

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------|---|----------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Clitoral Gland | | Carcinoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Moderate |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 4-6] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 3-6] | | |
| | [Mixed Cell Focus TGLs = 4-6] | | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 5-15] | | |
| * Nose | Turbinate | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 729

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53697

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|----------------|--------------|------------------------|
| | Turbinate | Foreign Body | |
| | Respirat Epith | Hyperostosis | Marked |
| | | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Pars Distalis | Adenoma | |
| * Pituitary Gland | | | |
| [Adenoma TGLs = 2-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 730

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|---|------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 4-16] | | |
| | [Mixed Cell Focus TGLs = 3-6] | | |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | [Carcinoma TGLs = 1-17+18+19] | | |
| | [Fibroadenoma TGLs = 1,5-17+18+19+16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 731

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lung | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | |
|-------------------------|--------------------------|---------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Parathyroid Gland |
|-------------------------|--------------------------|---------------------|

AUTO PRECLUDES DIAG.

| | |
|-------|--------------------------|
| * Eye | * Intestine Large, Cecum |
|-------|--------------------------|

OBSERVATIONS

| | | | |
|------------------|---------------------------------|--------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Moderate |
| | [Clear Cell Focus TGLs = 2-6] | | |
| | [Fatty Change TGLs = 2-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Nose | Respirat Epith | Adenoma | |
| | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 731

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53699

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|-------------------------|---------------|---------|
| * Pituitary Gland | Pars Distalis | Adenoma |
| [Adenoma TGLs = 3-10] | | |
| * Thyroid Gland | C Cell | Adenoma |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 732

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Parathyroid Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | |
|---------------------------|---|---------------|
| * Adrenal Cortex | Leukemia Mononuclear | |
| * Adrenal Medulla | Hyperplasia | Moderate |
| | Leukemia Mononuclear | |
| | Pheochromocytoma Benign | |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Leukemia Mononuclear | |
| | Nephropathy | Minimal |
| * Liver | Eosinophilic Focus | |
| | Hepatocellular Adenoma | |
| | Hepatodiaphragmatic Nodule | |
| | Inflammation | Chronic, Mild |
| | Leukemia Mononuclear | |
| | Mixed Cell Focus | |
| | [Hepatodiaphragmatic Nodule TGLs = 10-7] | |
| | [Leukemia Mononuclear TGLs = 8,9-6] | |
| * Lung | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4-15+16+17+14] | |
| * Nose | Turbinate | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 732

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53700

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---------------------------------------|----------------------|------------------------|
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 5-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Atrophy | Mild |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 11-14] | | |
| | [Leukemia Mononuclear TGLs = 6,7-6] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 733

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|---------------------------|----------------------------|
| * Bone | * Bone Marrow | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|-----------------------------------|--------------------|------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Brain | | Carcinoma | Metastatic (Pituitary Gland) |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Hyperplasia | Moderate |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Necrosis | Mild |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Eosinophilic Focus TGLs = 3-6] | | |
| | [Necrosis TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-15] | | |
| * Nose | Turbinate | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 733

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53701

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---------------------------|--------------|------------------------|
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Dilatation | Mild |
| | [Dilatation TGLs = 2-9] | | |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| | [Carcinoma TGLs = 5-10] | | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 734

TRT#: 8

SEX: Female

DAY ON TEST: 701

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 6-20] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | Lymph Node | Leukemia Mononuclear | |
| | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | | |
| | [Leukemia Mononuclear TGLs = 4-22] | | |
| | [Leukemia Mononuclear TGLs = 15-24] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 14-8] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 734

TRT#: 8

SEX: Female

DAY ON TEST: 701

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53702

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---|----------------------|------------------------|
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,12-14+15+16+18+23] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 7,8,13-22+21+23] | | |
| * Nose | Turbinat | Atrophy | Marked |
| | Turbinat | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 9-9] | | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 11-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-21] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 735

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mesenteric | * Mammary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

| | | | |
|---------------------------|---------------------------------|--------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Moderate |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 5-5] | | |
| * Lymph Node, Mediastinal | | Ectasia | Minimal |
| | [Ectasia TGLs = 1-3] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 735

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53703

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|----------------|-------------|---------------------|
| * Ovary | Respirat Epith | Metaplasia | Squamous, Mild |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | Bursa | Dilatation | Marked |
| [Dilatation TGLs = 2-9] | | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 4-10] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 736

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 3,4-6+14] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-7+14+15] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Marked |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 6-10] | | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 7-10] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 736

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53704

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 5 = NCL

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 737

TRT#: 8

SEX: Female

DAY ON TEST: 116

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Larynx | * Liver | * Lung |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------------|---------------|-----------------------|--------------------------|
| * Heart | Pericardium | Fibrosis | Mild |
| [Fibrosis TGLs = 2-9] | | | |
| * Nose | Turbinates | Atrophy | Moderate |
| | Turbinates | Hyperostosis | Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Mild |
| Pleura | | Hyperplasia | Mild |
| | | Infiltration Cellular | Mononuclear CI, Moderate |

PRIMARY CAUSE OF DEATH - Heart Pericardium Fibrosis

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 738

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|--|----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Marked |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,8-17+14+18] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 738

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53706

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------------|
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| | | Polyp, Inflammatory | Moderate |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 5-16] | | |
| | [Leukemia Mononuclear TGLs = 4-16] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 739

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Uterus | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------|---|----------------------------|---------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| | | Thrombosis | Moderate |
| | [Thrombosis TGLs = 5-6] | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | | Necrosis | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 2-6] | | |
| | [Leukemia Mononuclear TGLs = 1-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 7-14+15] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 739

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53707

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|-------------------------------------|----------------------|----------------------|
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Olfactory Epi | Leukemia Mononuclear | |
| | | Metaplasia | Respiratory, Marked |
| | | Thrombosis | Mild |
| * Ovary | Bursa | Dilatation | Moderate |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 6-9] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 8-10] | | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 4-6] | | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |
| * Urinary Bladder | | Leukemia Mononuclear | |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 740

TRT#: 8

SEX: Female

DAY ON TEST: 697

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Larynx | * Lung |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | | |
|--------------------------|---------------------------|----------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Thymus |
|--------------------------|---------------------------|----------|

OBSERVATIONS

| | | |
|--|-----------------------|------------------|
| * Adrenal Cortex | Hyperplasia | Mild |
| * Adrenal Medulla | Hyperplasia | Mild |
| * Clitoral Gland | Adenoma | |
| [Adenoma TGLs = 2-16] | | |
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Degeneration | Cystic, Moderate |
| | Eosinophilic Focus | |
| | Fatty Change | Diffuse, Mild |
| | Inflammation | Chronic, Mild |
| | Mixed Cell Focus | |
| | Necrosis | Mild |
| [Degeneration TGLs = 6-6] | | |
| [Inflammation TGLs = 5-14] | | |
| [Mixed Cell Focus TGLs = 5-14] | | |
| * Lymph Node, Bronchial | Infiltration Cellular | Histiocyte, Mild |
| [Infiltration Cellular TGLs = 3-3] | | |
| * Lymph Node, Mesenteric | Histiocytic Sarcoma | |
| * Mammary Gland | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-18+19+20+21+22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 740

TRT#: 8

SEX: Female

DAY ON TEST: 697

DOSE: 100 ppm

DISP: Natural Death

HISTO: 53708

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|----------------------------|--------------|-------------------------|
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Ovary | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 4-15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7-10] | | |
| * Stomach, Glandular | | Necrosis | Minimal |
| | [Necrosis TGLs = 8-17] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 741

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Lymph Node, Bronchial |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------|---|--------------------|-----------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Hypertrophy | Mild |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Degeneration | Cystic, Mild |
| | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Marked |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Mild |
| | [Angiectasis TGLs = 8-14] | | |
| | [Degeneration TGLs = 8-14] | | |
| | [Fatty Change TGLs = 6-6+14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Thrombosis | Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,4,5-17+18+19+20+21+22+23+24+16+14] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 741

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53709

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|----------------|--------------|------------------------|
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-7] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 742

TRT#: 8

SEX: Female

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------------------|----------------|-----------------------------|------------------------|
| * Brain | | Oligodendroglioma Malignant | |
| [Oligodendroglioma Malignant | TGLs = 6-1] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Mild |
| [Hepatodiaphragmatic Nodule | TGLs = 3-6] | | |
| [Inflammation | TGLs = 2-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma | TGLs = 5-15] | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 4-14] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | | Cyst | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 742

TRT#: 8

SEX: Female

DAY ON TEST: 656

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53710

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 1-9]

| | | | |
|-------------------|---------------|-------------|---------|
| * Pancreas | Acinus | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Brain Oligodendroglioma Malignant

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 743

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | | | |
|------------------|-------------------------|--------------------------|---------------------------|
| * Clitoral Gland | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|------------------|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|------------------|--------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Moderate |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Clear Cell Focus TGLs = 3-6] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-9+14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-7] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Respirat Epith | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Marked |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-10] | | |
| * Skin | | Inflammation | Chronic Active, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 744

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53712

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

* Thyroid Gland

* Uterus

C Cell

Leukemia Mononuclear

Hyperplasia

Polyp Stromal

Minimal

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 745

TRT#: 8

SEX: Female

DAY ON TEST: 586

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Mammary Gland | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|--|----------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5,6,7-5+4+17] | | |
| | Lymph Node Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-16] | | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-18] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 745

TRT#: 8

SEX: Female

DAY ON TEST: 586

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53713

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|---------|
| * Ovary | Bursa | Dilatation | Mild |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 10-9] | | |
| * Pancreas | Acinus | Atrophy | Minimal |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-15] | | |
| * Thymus | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-14] | | |
| * Urinary Bladder | | Leukemia Mononuclear | |
| * Uterus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 746

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|---|-------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | [Basophilic Focus TGLs = 7-6] | | |
| | [Clear Cell Focus TGLs = 6-6] | | |
| | [Eosinophilic Focus TGLs = 8,9-14+15] | | |
| | [Leukemia Mononuclear TGLs = 5-6+14+15] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 13-15] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 746

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53714

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---------------------------------------|----------------------|-------------------------|
| | [Leukemia Mononuclear TGLs = 14-14] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 10-7] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Marked |
| | | Inflammation | Chronic Active, Minimal |
| * Ovary | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | Bursa | Dilatation | Marked |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 2-9] | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 12-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-14] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Leukemia Mononuclear | |
| | | Polyp Stromal | |
| | [Hyperplasia TGLs = 3-10] | | |

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 747

TRT#: 8

SEX: Female

DAY ON TEST: 607

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------------|----------------------|---------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Infarct | Mild |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| | [Infarct TGLs = 9-7] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-6] | | |
| | Lymph Node | Leukemia Mononuclear | |
| | Pancreatic | | |
| | [Leukemia Mononuclear TGLs = 6-15] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 12-8] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,10-16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 11-18] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 747

TRT#: 8

SEX: Female

DAY ON TEST: 607

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53715

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------------------------------------|----------------------|------------------------|
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Mild |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Marked |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Marked |
| * Ovary | Bursa | Dilatation | Moderate |
| | [Dilatation TGLs = 7-9] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 3-10] | | |
| * Spleen | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 4-14] | | |
| | [Necrosis TGLs = 5-14] | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| | | Ulcer | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 748

TRT#: 8

SEX: Female

DAY ON TEST: 691

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | | |
|-------------------------|--------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------------|--------------------------|---------------------------|

OBSERVATIONS

| | | | |
|------------------------------|---------------|------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Moderate |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | | Fibroadenoma | |
| * Mammary Gland | | | |
| [Fibroadenoma TGLs = 2-14] | | | |
| * Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-16] | | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-10] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|------------------|---|--------------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Clitoral Gland | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 6-6] | | |
| | [Mixed Cell Focus TGLs = 6-6] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 1-5] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3-14+15+16+17] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-7] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | | Foreign Body | |
| | Turbinate | Hyperostosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 53717

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|--------------------------------|-----------------------------|---------------------------------|
| | Respirat Epith | Hyperplasia Inflammation | Minimal Chronic Active, Mild |
| * Pituitary Gland | Olfactory Epi Pars Distalis | Metaplasia Adenoma | Respiratory, Marked |
| [Adenoma TGLs = 5-10] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

ANIMAL ID: 750

TRT#: 8

SEX: Female

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Trachea | | |

MISSING

| | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

| | | | |
|-------------------|--|----------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | | Metaplasia | Osseous, Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-20] | | |
| * Kidney | | Infarct | Mild |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| | [Infarct TGLs = 13-7] | | |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Inflammation | Chronic, Moderate |
| | | Leukemia Mononuclear | |
| | | Necrosis | Mild |
| | [Leukemia Mononuclear TGLs = 10,11,12-20+18+6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-4+5] | | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

ANIMAL ID: 750

TRT#: 8

SEX: Female

DAY ON TEST: 698

DOSE: 100 ppm

DISP: Moribund Sacrifice

HISTO: 53718

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------------------------------|----------------------|-----------------------|
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-19] | | |
| | [Leukemia Mononuclear TGLs = 15-21] | | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 14-8] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14+15+16] | | |
| * Nose | Turbinate | Atrophy | Marked |
| | Turbinate | Hyperostosis | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | | Leukemia Mononuclear | |
| | Olfactory Epi | Metaplasia | Respiratory, Moderate |
| | | Thrombosis | Minimal |
| * Ovary | Bursa | Dilatation | Moderate |
| | | Leukemia Mononuclear | |
| | [Dilatation TGLs = 8-21] | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| | [Fibrosis TGLs = 7-19] | | |
| | [Leukemia Mononuclear TGLs = 6-18] | | |
| * Stomach, Glandular | | Necrosis | Minimal |
| | [Necrosis TGLs = 16-22] | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Leukemia Mononuclear | |
| * Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

*** END OF REPORT ***