

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**C Number:** C04580F

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Female

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lung

Hyperplasia, Alveolar Epithelium

Pancreas

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Spleen

Hemosiderosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_002

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart

Intestine Large

Kidney

Mammary gland

Pituitary gland

Anus Nos

Anterior Pituitary

Fibrosis

Parasitism

Nephropathy

Hyperplasia, Nos

Adenoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Brain		Glioma, Nos
Eye	Lacrimal Apparatus	Inflammation, Nos
	Nasolacrimal Duct	Inflammation, Nos
Kidney		Nephropathy
Larynx		Inflammation, Nos
Liver		Degeneration, Lipoid
		Inflammation, Granulomatous Focal
Lymph node		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Spleen		Hemosiderosis
Trachea		Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Degeneration, Lipoid

Clitoral gland

Inflammation, Suppurative

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Lung

Histiocytosis

Hyperplasia, Alveolar Epithelium

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Anterior Pituitary

Degeneration, Cystic

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Eye

Medulla

Pheochromocytoma

Heart

Lacrimal Apparatus

Inflammation, Nos

Kidney

Thrombosis, Nos

Liver

Nephropathy

Mammary gland

Degeneration, Lipoid

Nasal cavity

Hyperplasia, Nos

Peritoneum

Thrombosis, Nos

Peritoneal Cavity Nos

Hemosiderosis

Pituitary gland

Peritoneal Cavity Nos

Necrosis, Fat

Thyroid

Anterior Pituitary

Cyst, Nos

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortical Adenoma

Brain

Degeneration, Lipoid

Kidney

Hemorrhage

Lung

Nephropathy

Nuclear Enlargement

Mammary gland

Hemorrhage

Histiocytosis

Pituitary gland

Anterior Pituitary

Fibroadenoma

Hyperplasia, Nos

Unspecified

Multiple Organs Nos

Degeneration, Cystic

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Large  
Kidney  
Liver  
Mammary gland  
Nasal cavity  
Ovary  
Peritoneum  
  
Pituitary gland  
Unspecified  
Urinary bladder

Colon  
  
  
  
  
  
Peritoneal Cavity Nos  
Peritoneal Cavity Nos  
Anterior Pituitary  
Multiple Organs Nos

Parasitism  
Nephropathy  
Cytoplasmic Change, Basophilic  
Hyperplasia, Nos  
Inflammation, Nos  
Hyperplasia, Epithelial  
Granular-Cell Tumor, Invasive  
Inflammation, Granulomatous Focal  
Adenoma, Nos  
Leukemia, Mononuclear Cell  
Granular-Cell Tumor, Malignant  
Transitional-Cell Papilloma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Necrosis, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Suppurative
		Thrombosis, Nos
Pancreas		Atrophy, Focal
Parathyroid gland		Adenoma, Nos
Peritoneum	Peritoneal Cavity Nos	Necrosis, Fat
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Salivary gland		Inflammation, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Eye	Nasolacrimal Duct	Inflammation, Suppurative
Liver		Degeneration, Lipoid
		Necrosis, Nos
		Pigmentation, Nos
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Eye	Lacrimal Apparatus	Metaplasia, Squamous
Kidney		Nephropathy
Liver		Degeneration, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Metaplasia, Squamous
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_011

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Neoplastic Nodule
Lung		Histiocytosis
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Salivary gland		Metaplasia, Squamous
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_012

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Lipoid

Hyperplasia, Nos

Necrosis, Nos

Brain

Hemorrhage

Eye

Lacrimal Apparatus

Metaplasia, Squamous

Kidney

Nephropathy

Lung

Hemorrhage

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Necrosis, Nos

Eye

Lacrimal Apparatus

Dilatation, Ducts

Nasolacrimal Duct

Inflammation, Suppurative

Kidney

Nephropathy

Liver

Necrosis, Nos

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Anterior Pituitary

Hyperplasia, Nos

Stomach

Glandular Stomach

Erosion

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Lipoid

Brain

Hyperplasia, Nos

Kidney

Necrosis, Focal

Liver

Nephropathy

Lung

Degeneration, Nos

Mammary gland

Inflammation, Nos

Pituitary gland

Galactocele

Thyroid

Anterior Pituitary

Adenoma, Nos

Unspecified

C-Cell Adenoma

Uterus

Multiple Organs Nos

Leukemia, Mononuclear Cell

Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver		Degeneration, Lipoid
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Stomach	Glandular Stomach	Erosion
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Clitoral gland

Carcinoma, Nos

Heart

Inflammation, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Hyperplasia, Nos

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pancreas		Atrophy, Diffuse
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Skin		Squamous Cell Papilloma
Spleen		Fibrosis
		Hemosiderosis
Stomach	Glandular Stomach	Hemorrhage
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_018

**TRT#:** 1  
**DOSE:** 400 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
	Cortex Nos	Hyperplasia, Nos
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Salivary gland		Inflammation, Nos
		Metaplasia, Squamous
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone

Osteosclerosis

Brain

Glioma, Nos

Liver

Inflammation, Nos

Lymph node

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Spleen

Hemosiderosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Ovary		Atrophy, Nos
		Hyperplasia, Epithelial
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1  
**DOSE:** 400 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_022

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Eye

Lacrimal Apparatus

Dilatation, Ducts

Lacrimal Apparatus

Inflammation, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lung

Hemorrhage

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Anterior Pituitary

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Degeneration, Lipoid

Lung

Edema, Nos

Hemorrhage

Mammary gland

Hyperplasia, Nos

Nasal cavity

Inflammation, Suppurative

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Spleen

Fibrosis

Hemorrhage

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Lipoid

Eye

Lacrimal Apparatus

Hyperplasia, Nos

Heart

Lacrimal Apparatus

Inflammation, Nos

Kidney

Metaplasia, Squamous

Fibrosis

Liver

Nephropathy

Nuclear Enlargement

Lung

Degeneration, Lipoid

Necrosis, Nos

Mammary gland

Histiocytosis

Nasal cavity

Hyperplasia, Nos

Inflammation, Suppurative

Ovary

Metaplasia, Squamous

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_027

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
	Cortex Nos	Hyperplasia, Nos
Clitoral gland		Adenoma, Nos
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Ovary		Atrophy, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		C-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_028

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Large  
Kidney

Colon

Parasitism

Liver

Nephropathy

Nuclear Enlargement

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos

Necrosis, Nos

Mammary gland

Hyperplasia, Nos

Nasal cavity

Inflammation, Suppurative

Metaplasia, Squamous

Ovary

Atrophy, Nos

Pancreas

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Anterior Pituitary

Degeneration, Cystic

Spleen

Fibrosis

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_029

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Mammary gland

Unspecified

Multiple Organs Nos

Nephropathy

Hyperplasia, Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Clitoral gland

Heart

Kidney

Liver

Mammary gland

Pituitary gland

Unspecified

Degeneration, Lipoid

Adenoma, Nos

Fibrosis

Inflammation, Nos

Nephropathy

Cytoplasmic Change, Basophilic

Hematopoiesis

Inflammation, Granulomatous Focal

Hyperplasia, Nos

Degeneration, Cystic

Hyperplasia, Nos

Perivasculitis

Anterior Pituitary

Anterior Pituitary

Multiple Organs Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Cervix Uteri	Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_032

**TRT#:** 1  
**DOSE:** 400 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Heart		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Clear-Cell Change
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Uterus		Endometrial Stromal Polyp
	Cervix Uteri	Hyperplasia, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_033

**TRT#:** 1  
**DOSE:** 400 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Kidney		Nephropathy
Liver		Degeneration, Nos
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Adenoma
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Ovary		Degeneration, Cystic
		Hyperplasia, Epithelial
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Salivary gland		Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Clitoral gland		Carcinoma, Nos
Heart		Inflammation, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Lymphoid
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Spleen		Hemosiderosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_035

**TRT#:** 1  
**DOSE:** 400 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Nasal cavity		Inflammation, Nos
Oral mucosa	Mouth Nos	Squamous Cell Papilloma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hemosiderosis
Uterus		Endometrial Stromal Polyp
		Inflammation, Suppurative

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney

Colon

Degeneration, Lipoid  
Parasitism  
Hyperplasia, Tubular Cell  
Nephropathy  
Nuclear Enlargement

Liver

Bile Duct

Degeneration, Nos  
Hyperplasia, Nos

Lung

Fibrosis  
Hemorrhage  
Histiocytosis  
Inflammation, Nos

Mammary gland

Hyperplasia, Nos

Nasal cavity

Thrombosis, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Salivary gland

Anterior Pituitary

Hyperplasia, Nos

Unspecified

Multiple Organs Nos

Hyperplasia, Epithelial

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Eye	Lacrimal Apparatus	Metaplasia, Squamous
Heart		Thrombosis, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Degeneration, Nos
Lung		Hemorrhage
Mammary gland		Adenoma, Nos
Nasal cavity		Thrombosis, Nos
Peritoneum	Peritoneal Cavity Nos	Angiectasis
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_038

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Nephropathy

Liver

Degeneration, Lipoid

Mammary gland

Hyperplasia, Nos

Nasal cavity

Thrombosis, Nos

Ovary

Cyst, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_039

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Nephropathy

Larynx

Inflammation, Nos

Lung

Hemorrhage

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Tongue

Granuloma, Foreign Body

Unspecified

Multiple Organs Nos

Squamous Cell Carcinoma

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart		Inflammation, Nos
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Spleen		Hemosiderosis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_041

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Spleen		Leukemia, Mononuclear Cell
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Nos
Uterus		Endometrial Stromal Sarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Mammary gland

Pituitary gland

Thyroid

Unspecified

Uterus

Anterior Pituitary

Anterior Pituitary

Multiple Organs Nos

Cortical Adenoma

Fibrosis

Inflammation, Nos

Nephropathy

Nuclear Enlargement

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Adenoma, Nos

Degeneration, Cystic

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
		Inflammation, Nos
Kidney		Cyst, Nos
		Inflammation, Chronic Focal
		Nephropathy
		Nuclear Enlargement
Liver		Inflammation, Granulomatous Focal
	Periportal	Inflammation, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Tongue		Hyperplasia, Epithelial
Zymbal gland		Carcinoma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C04580F

Test Type: Long-Term

Route: Inhalation

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Tetrachloroethylene

CAS Number: 127-18-4

Date Report Requested: 10/26/2014

Time Report Requested: 10:52:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_044

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 400 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Lacrimal Apparatus Nasolacrimal Duct Lacrimal Apparatus Crystalline Lens	Degeneration, Nos Inflammation, Nos Inflammation, Suppurative Metaplasia, Squamous Mineralization
Heart		Fibrosis Inflammation, Nos
Kidney		Nephropathy Nuclear Enlargement
Larynx		Hyperplasia, Epithelial Inflammation, Nos
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Ovary		Atrophy, Nos Cyst, Nos Hyperplasia, Granulosa Cell Inflammation, Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Unspecified	Adipose Tissue Adipose Tissue	Degeneration, Nos Inflammation, Nos
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Lipoid

Eye

Lacrimal Apparatus

Hyperplasia, Nos

Nasolacrimal Duct

Inflammation, Nos

Colon

Inflammation, Suppurative

Intestine Large

Parasitism

Kidney

Nephropathy

Liver

Degeneration, Lipoid

Mammary gland

Hyperplasia, Nos

Ovary

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Anterior Pituitary

Hyperplasia, Nos

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma, Malignant
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Intermedia	Hyperplasia, Nos
Salivary gland		Inflammation, Nos
		Metaplasia, Squamous
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_047

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Nephropathy

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Stomach

Forestomach

Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_048

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Larynx

Liver

Lung

Mammary gland

Nasal cavity

Pancreas

Pituitary gland

Salivary gland

Spleen

Thyroid

Anterior Pituitary

Degeneration, Lipoid

Fibrosis

Nephropathy

Nuclear Enlargement

Inflammation, Nos

Cytoplasmic Change, Basophilic

Leukocytosis, Nos

Histiocytosis

Hyperplasia, Nos

Inflammation, Nos

Atrophy, Focal

Degeneration, Cystic

Hyperplasia, Epithelial

Hematopoiesis

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 400 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Heart

Cortex Nos

Hyperplasia, Nos  
Fibrosis

Intestine Large

Colon  
Rectum

Inflammation, Nos  
Parasitism  
Parasitism

Kidney

Nephropathy  
Nuclear Enlargement

Larynx

Inflammation, Nos

Lymph node

Mandibular Lymph Node

Hyperplasia, Nos

Nasal cavity

Inflammation, Nos

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_050

**TRT#:** 1  
**DOSE:** 400 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Fibrosis
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Kidney		Nephropathy
Liver		Degeneration, Nos
		Regenerative, Nodule
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Peritoneum	Peritoneal Cavity Nos	Necrosis, Fat
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_001

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Pancreas	Acinus	Focal Cellular Change
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_002

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Degeneration, Lipoid

Heart

Hematopoiesis

Kidney

Thrombosis, Nos

Liver

Hematopoiesis

Mammary gland

Nephropathy

Nasal cavity

Degeneration, Lipoid

Pituitary gland

Anterior Pituitary

Fibroadenoma

Stomach

Forestomach

Hyperplasia, Nos

Forestomach

Metaplasia, Squamous

Forestomach

Thrombosis, Nos

Unspecified

Multiple Organs Nos

Adenoma, Nos

Hyperplasia, Epithelial

Inflammation, Nos

Ulcer, Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Eye		Degeneration, Nos
Heart		Fibrosis
		Inflammation, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Thyroid		C-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_004

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Degeneration, Lipoid

Kidney

Nephropathy

Liver

Degeneration, Lipoid

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

Anterior Pituitary

Hyperplasia, Nos

Skin

Keratoacanthoma

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_005

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Eye	Lacrimal Apparatus	Metaplasia, Squamous
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Nos
Lung		Histiocytosis
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Cervix Uteri	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_006

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Adipose Tissue	Degeneration, Nos
	Adipose Tissue	Inflammation, Granulomatous Focal
	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Degeneration, Lipoid
	Bile Duct	Hyperplasia, Nos
Lung		Fibrosis
		Histiocytosis
		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_008

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver		Degeneration, Lipoid Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_009

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Nephropathy
Liver		Degeneration, Cystic
		Degeneration, Lipoid
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_010

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Medulla

Hyperplasia, Nos

Eye

Crystalline Lens

Mineralization

Kidney

Nephropathy

Liver

Degeneration, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_011

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland		Adenoma, Nos
Heart		Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Hyperplasia, Epithelial Inflammation, Suppurative
Ovary		Atrophy, Nos Hyperplasia, Epithelial
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_013

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Mammary gland

Nasal cavity

Pituitary gland

Spleen

Thyroid

Uterus

Anterior Pituitary

Endometrium

Degeneration, Lipoid

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Hyperplasia, Epithelial

Inflammation, Nos

Degeneration, Cystic

Leukemia, Mononuclear Cell

Hyperplasia, C Cell

Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Eye

Kidney

Liver

Lymph node

Mammary gland

Nasal cavity

Pituitary gland

Salivary gland

Spleen

Thyroid

Lacrimal Apparatus

Lacrimal Apparatus

Thoracic Lymph Node

Anterior Pituitary

Hematopoiesis

Inflammation, Nos

Metaplasia, Squamous

Nephropathy

Angiectasis

Cytoplasmic Change, Basophilic

Hematopoiesis

Necrosis, Nos

Hemosiderosis

Adenocarcinoma, Nos

Hyperplasia, Nos

Inflammation, Suppurative

Metaplasia, Squamous

Adenoma, Nos

Hyperplasia, Epithelial

Inflammation, Nos

Hematopoiesis

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Clitoral gland

Heart

Kidney

Liver

Lung

Mammary gland

Pancreas

Salivary gland

Thyroid

Uterus

Degeneration, Lipoid

Carcinoma, Nos

Fibrosis

Inflammation, Nos

Nephropathy

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Hyperplasia, Alveolar Epithelium

Hyperplasia, Nos

Atrophy, Focal

Metaplasia, Squamous

Hyperplasia, C Cell

Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Peritoneum	Peritoneal Cavity Nos	Inflammation, Granulomatous Focal
	Peritoneal Cavity Nos	Necrosis, Fat
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Nos
	Forestomach	Ulcer, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_017

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytologic Alteration, Nos
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Degeneration, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Tooth		Necrosis, Focal
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Nephropathy
Liver		Degeneration, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Salivary gland		Metaplasia, Squamous
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Heart

Cortex Nos

Hyperplasia, Nos

Kidney  
Liver

Fibrosis

Inflammation, Nos

Nephropathy

Nasal cavity

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Hyperplasia, Epithelial

Ovary

Inflammation, Suppurative

Hyperplasia, Epithelial

Spleen

Hemosiderosis

Thyroid

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_020

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Nephropathy

Liver

Degeneration, Lipoid

Bile Duct

Hyperplasia, Nos

Mammary gland

Hyperplasia, Nos

Nasal cavity

Thrombosis, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_021

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Hemorrhage
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Kidney		Nephropathy
Liver		Degeneration, Lipoid
	Bile Duct	Hyperplasia, Nos
		Pigmentation, Nos
Lung		Congestion, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Brain		Cytoplasmic Vacuolization
Clitoral gland		Hyperplasia, Focal
Eye	Lacrimal Apparatus Nasolacrimal Duct	Inflammation, Nos Inflammation, Suppurative
Heart		Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Lung		C-Cell Carcinoma, Metastatic Edema, Nos
Mammary gland		Hyperplasia, Nos
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary Anterior Pituitary	Degeneration, Cystic Hyperplasia, Nos
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_023

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye	Lacrimal Apparatus	Inflammation, Nos
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_024

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Eye

Heart

Kidney

Liver

Mammary gland

Nasal cavity

Pituitary gland

Uterus

Nasolacrimal Duct

Anterior Pituitary

Degeneration, Cystic

Inflammation, Suppurative

Fibrosis

Nephropathy

Necrosis, Nos

Hyperplasia, Nos

Inflammation, Suppurative

Hyperplasia, Nos

Endometrial Stromal Sarcoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Eye	Lacrimal Apparatus	Fibrosis
	Lacrimal Apparatus	Inflammation, Nos
	Lacrimal Apparatus	Metaplasia, Squamous
Heart		Fibrosis
		Inflammation, Nos
		Thrombosis, Nos
Kidney		Nephropathy
Liver		Degeneration, Lipoid
		Inflammation, Suppurative
		Necrosis, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Degeneration, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_026

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Liver

Lung

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Hemorrhage

Adenoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Brain

Carcinoma, Nos, Invasive

Malacia

Heart

Fibrosis

Inflammation, Nos

Intestine Large

Colon

Parasitism

Kidney

Nephropathy

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Spleen

Hemosiderosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_028

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Nephropathy

Liver

Nephrosis, Nos

Mammary gland

Degeneration, Lipoid

Pituitary gland

Hyperplasia, Nos

Unspecified

Anterior Pituitary

Adenoma, Nos

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_029

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Brain		Carcinoma, Nos, Invasive Hemorrhage
Heart		Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Nos
Mammary gland		Fibrosis
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos Carcinoma, Nos
Thymus		Degeneration, Cystic Metaplasia, Squamous
Uterus		Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_030

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Eye

Heart

Kidney

Liver

Lymph node

Mammary gland

Ovary

Pituitary gland

Unspecified

Crystalline Lens

Mandibular Lymph Node

Anterior Pituitary

Multiple Organs Nos

Degeneration, Lipoid

Degeneration, Nos

Mineralization

Fibrosis

Nephropathy

Nuclear Enlargement

Cytoplasmic Change, Basophilic

Degeneration, Lipoid

Inflammation, Granulomatous Focal

Hyperplasia, Nos

Hyperplasia, Nos

Cyst, Nos

Degeneration, Cystic

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_031

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye	Lacrimal Apparatus	Inflammation, Nos
Heart		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Necrosis, Nos
Mammary gland		Hyperplasia, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Brain	Olfactory Sensory Epithelium	Inflammation, Suppurative
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
Kidney		Nephropathy
Liver		Degeneration, Lipoid
	Bile Duct	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Suppurative
		Metaplasia, Squamous
Ovary		Atrophy, Nos
Pancreas	Islets	Hyperplasia, Nos
Pharynx	Pharyngeal Mucous Gland	Inflammation, Nos
	Pharyngeal Mucous Gland	Metaplasia, Squamous
Salivary gland		Inflammation, Nos
		Metaplasia, Squamous
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Degeneration, Lipoid

Liver

Hematopoiesis

Mammary gland

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Adenocarcinoma, Nos

Spleen

Degeneration, Cystic

Uterus

Hematopoiesis

Hematoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_034

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
	Periportal	Inflammation, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell
Unspecified	Adipose Tissue	Inflammation, Nos
	Adipose Tissue	Pigmentation, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_035

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Fibrosis

Liver

Thrombosis, Nos

Degeneration, Lipoid

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_036

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
		Thrombosis, Nos
Kidney		Nephropathy
Liver		Degeneration, Lipoid
		Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Thrombosis, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Suppurative
	Forestomach	Ulcer, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Heart		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lymph node	Thoracic Lymph Node	Hemosiderosis
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Squamous Cell Papilloma
Spleen		Hemosiderosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortical Adenoma

Eye

Nasolacrimal Duct

Degeneration, Lipoid

Heart

Hyperplasia, Nos

Fibrosis

Kidney

Inflammation, Nos

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Inflammation, Granulomatous Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Anterior Pituitary

Degeneration, Cystic

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_039

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_040

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Histiocytosis
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Suppurative
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Salivary gland		Metaplasia, Squamous
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_041

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Eye	Lacrimal Apparatus	Dilatation, Ducts
	Lacrimal Apparatus	Inflammation, Nos
	Lacrimal Apparatus	Thrombosis, Nos
Kidney		Nephropathy
Liver		Degeneration, Lipoid
		Inflammation, Suppurative
		Thrombosis, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Nasal cavity		Metaplasia, Squamous
		Necrosis, Nos
		Thrombosis, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Skin		Inflammation, Suppurative
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_042

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Degeneration, Lipoid
Nasal cavity		Thrombosis, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Larynx		Hyperplasia, Epithelial
		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
Lung		Fibrosis
		Histiocytosis
		Hyperplasia, Alveolar Epithelium
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Salivary gland		Inflammation, Nos
		Metaplasia, Squamous
Thyroid		C-Cell Adenoma
Uterus		Endometrial Stromal Sarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Heart		Fibrosis
		Inflammation, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Nos
Peritoneum	Peritoneal Cavity Nos	Necrosis, Fat
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_045

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Fibrosis

Heart

Hyperplasia, Nos

Kidney

Fibrosis

Mammary gland

Inflammation, Nos

Nasal cavity

Nephropathy

Pituitary gland

Hyperplasia, Nos

Anterior Pituitary

Thrombosis, Nos

Anterior Pituitary

Degeneration, Cystic

Skin

Hyperplasia, Nos

Unspecified

Multiple Organs Nos

Abscess, Nos

Uterus

Leukemia, Mononuclear Cell

Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_046

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Larynx		Inflammation, Suppurative
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 200 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Necrosis, Nos
Brain		Hemorrhage
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
Kidney		Nephropathy
Liver		Degeneration, Lipoid
		Necrosis, Nos
Oral mucosa		Foreign Body, Nos
		Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Thyroid		Degeneration, Cystic
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_048

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart

Degeneration, Lipoid  
Fibrosis

Intestine Small  
Kidney

Ileum, Ileum

Inflammation, Nos  
Parasitism

Liver

Nephropathy  
Nuclear Enlargement  
Cytoplasmic Change, Basophilic  
Inflammation, Granulomatous Focal

Lymph node  
Mammary gland

Mandibular Lymph Node

Hyperplasia, Nos  
Hyperplasia, Nos

Pituitary gland  
Salivary gland

Anterior Pituitary

Degeneration, Cystic

Uterus

Endometrium

Metaplasia, Squamous  
Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Clitoral gland		Carcinoma, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Histiocytosis
		Hyperplasia, Lymphoid
Lymph node	Thoracic Lymph Node	Hyperplasia, Nos
		Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Cyst, Nos
	Endometrium	Deciduoma
		Endometrial Stromal Polyp
		Leiomyosarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_050

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 200 PPM

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
		Nuclear Enlargement
Larynx		Inflammation, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Histiocytosis
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Thymus		Degeneration, Cystic
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_001

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Heart

Inflammation, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Mammary gland

Fibroadenoma

Nasal cavity

Foreign Body, Nos

Pituitary gland

Anterior Pituitary

Inflammation, Suppurative

Thyroid

Hyperplasia, Nos

C-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_002

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Nephropathy
Liver		Cytoplasmic Change, Eosinophilic
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_003

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Heart		Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Cortex Nos

Hyperplasia, Nos  
Nephropathy  
Cytoplasmic Change, Basophilic  
Inflammation, Granulomatous Focal

Lung  
Mammary gland  
Nasal cavity  
Pancreas

Hyperplasia, Alveolar Epithelium  
Hyperplasia, Nos  
Inflammation, Suppurative

Pituitary gland  
Thyroid  
Uterus

Anterior Pituitary

Atrophy, Focal  
Degeneration, Cystic  
Hyperplasia, C Cell  
Dilatation, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_005

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Nephropathy
Larynx		Inflammation, Nos
Liver		Cytoplasmic Change, Basophilic
		Cytoplasmic Change, Eosinophilic
Mammary gland		Adenocarcinoma, Nos
		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Squamous Cell Papilloma
Trachea		Hyperplasia, Epithelial
		Inflammation, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_006

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Clitoral gland

Kidney

Liver

Mammary gland

Pituitary gland

Spleen

Anterior Pituitary

Carcinoma, Nos

Nephropathy

Hematopoiesis

Hyperplasia, Nos

Degeneration, Cystic

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_007

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Large  
Kidney  
Larynx

Colon

Parasitism  
Nephropathy  
Hyperplasia, Epithelial  
Inflammation, Nos  
Cytoplasmic Change, Basophilic  
Degeneration, Cystic  
Hyperplasia, Nos  
Hemosiderosis  
Hyperplasia, C Cell

Liver  
Pituitary gland

Anterior Pituitary  
Anterior Pituitary

Spleen  
Thyroid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_008

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Eye	Nasolacrimal Duct	Inflammation, Suppurative
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Ovary		Atrophy, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Hemosiderosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_009

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain		Hemorrhage
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Kidney		Nephropathy
Liver		Degeneration, Nos
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Hyperplasia, Epithelial
Mammary gland		Hyperplasia, Nos
Nasal cavity		Metaplasia, Squamous
Ovary		Atrophy, Nos
		Hyperplasia, Epithelial
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_010

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Kidney

Ovary

Pituitary gland

Salivary gland

Thyroid

Uterus

Anterior Pituitary

Degeneration, Lipoid

Nephropathy

Atrophy, Nos

Degeneration, Cystic

Metaplasia, Squamous

Hyperplasia, C Cell

Dilatation, Nos

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_011

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortical Adenoma

Degeneration, Lipoid

Medulla

Hyperplasia, Nos

Heart

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Ovary

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Thyroid

C-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_012

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Nos
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_013

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Kidney		Inflammation, Suppurative Nephropathy
Liver		Degeneration, Lipoid
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Nos
Lymph node		Hyperplasia, Nos
	Mandibular Lymph Node	Inflammation, Suppurative
	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Thrombosis, Nos
Nasal cavity		Adenoma, Nos
Pituitary gland	Intermedia	Leukemia, Mononuclear Cell
Unspecified	Multiple Organs Nos	

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_014

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Kidney		Nephropathy
Liver		Degeneration, Lipoid
Nasal cavity		Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Hyperplasia, Epithelial
		Inflammation, Nos
Spleen		Hemosiderosis
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Nos
	Forestomach	Ulcer, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_015

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Brain

Eye

Heart

Kidney

Liver

Lung

Meninges

Lacrimal Apparatus

Thoracic Lymph Node

Lymph node

Mammary gland

Nasal cavity

Ovary

Pancreas

Peritoneum

Unspecified

Peritoneal Cavity Nos

Multiple Organs Nos

Cortical Adenoma

Inflammation, Nos

Metaplasia, Squamous

Fibrosis

Nephropathy

Degeneration, Lipoid

Fibrosis

Hyperplasia, Alveolar Epithelium

Inflammation, Nos

Inflammation, Nos

Hyperplasia, Nos

Inflammation, Suppurative

Atrophy, Nos

Atrophy, Diffuse

Necrosis, Fat

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_016

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Inflammation, Granulomatous Focal
Lymph node	Mesenteric Lymph Node	Hemosiderosis
	Mesenteric Lymph Node	Histiocytosis
	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Unspecified	Tail	Neurofibrosarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_017

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Clitoral gland  
Heart

Degeneration, Lipoid  
Carcinoma, Nos  
Fibrosis

Intestine Large  
Kidney  
Liver

Colon

Inflammation, Nos  
Parasitism  
Nephropathy  
Cytoplasmic Change, Basophilic  
Inflammation, Granulomatous Focal

Mammary gland  
Pancreas  
Pituitary gland  
Thyroid

Islets

Anterior Pituitary

Hyperplasia, Nos  
Hyperplasia, Nos  
Adenoma, Nos  
Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_018

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Nos

Eye

Nasolacrimal Duct

Inflammation, Suppurative

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lung

Hemorrhage

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Trachea

Inflammation, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_019

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Clitoral gland

Degeneration, Lipoid

Adenoma, Nos

Eye

Nasolacrimal Duct  
Lacrimal Apparatus

Inflammation, Suppurative

Inflammation, Suppurative

Kidney

Metaplasia, Squamous

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Mammary gland

Hyperplasia, Nos

Pancreas

Atrophy, Focal

Pituitary gland

Intermedia

Carcinoma, Nos

Spleen

Hemosiderosis

Stomach

Forestomach

Hyperplasia, Epithelial

Forestomach

Inflammation, Suppurative

Forestomach

Ulcer, Nos

Thyroid

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_020

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Oral mucosa

Spleen

Stomach

Glandular Stomach

Inflammation, Chronic

Hemosiderosis

Erosion

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_021

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Liver

Pancreas

Pituitary gland

Unspecified

Uterus

Anterior Pituitary

Multiple Organs Nos

Hyperplasia, Focal

Necrosis, Nos

Atrophy, Focal

Hyperplasia, Nos

Leukemia, Mononuclear Cell

Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_022

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Alveolar/Bronchiolar Carcinoma
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Mediastinum Nos	Alveolar/Bronchiolar Carcinoma, Invasive
Uterus		Fibroma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_023

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Ovary		Atrophy, Nos
Pancreas		Atrophy, Diffuse
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Degeneration, Cystic
Thyroid		Hyperplasia, C Cell
Unspecified	Adipose Tissue	Degeneration, Nos
	Adipose Tissue	Inflammation, Nos
	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_024

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Eye

Heart

Kidney

Liver

Nasolacrimal Duct

Bile Duct

Mammary gland

Nasal cavity

Spleen

Hematopoiesis

Inflammation, Suppurative

Thrombosis, Nos

Nephropathy

Degeneration, Lipoid

Hyperplasia, Nos

Pigmentation, Nos

Hyperplasia, Nos

Inflammation, Suppurative

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_025

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Brain		Glioma, Nos
Clitoral gland		Adenoma, Nos
Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Larynx		Inflammation, Nos
Liver		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_026

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Mammary gland

Pituitary gland

Thyroid

Anterior Pituitary

Intermedia

Degeneration, Lipoid

Fibrosis

Nephropathy

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Hyperplasia, Nos

Degeneration, Cystic

Hyperplasia, Nos

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_027

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Blood vessel		Inflammation, Chronic
Heart		Fibrosis
		Inflammation, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Skin	Eyelid Nos	Neurofibroma
Spleen		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_028

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Bile Duct

Pituitary gland

Thyroid

Unspecified

Anterior Pituitary

Multiple Organs Nos

Degeneration, Lipoid

Fibrosis

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Neoplastic Nodule

Adenoma, Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_029

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone	Mandible	Odontoma, Nos
Larynx		Inflammation, Suppurative
Lung		Congestion, Nos
Oral mucosa		Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
Spleen		Hemosiderosis
Stomach	Glandular Stomach	Erosion
	Forestomach	Hyperplasia, Epithelial
Thymus		Degeneration, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_030

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Adenocarcinoma, Nos
		Fibroadenoma
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_031

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Pituitary gland

Spleen

Stomach

Thyroid

Unspecified

Anterior Pituitary

Forestomach

Pelvis

Degeneration, Lipoid

Nephropathy

Cytoplasmic Change, Basophilic

Degeneration, Lipoid

Adenoma, Nos

Hemosiderosis

Hyperplasia, Epithelial

Hyperplasia, C Cell

Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_032

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
	Medulla	Hyperplasia, Nos
Bone marrow		Fibrosis
Heart		Fibrosis
		Mineralization
Kidney		Nephropathy
Mammary gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_033

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Degeneration, Lipoid

Kidney

Hyperplasia, Nos

Larynx

Nephropathy

Lung

Inflammation, Suppurative

Mammary gland

Histiocytosis

Nasal cavity

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Thrombosis, Nos

Thyroid

Adenoma, Nos

Unspecified

Multiple Organs Nos

C-Cell Adenoma

Leukemia, Mononuclear Cell

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_034

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Clitoral gland		Hyperplasia, Focal
Heart		Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pancreas		Atrophy, Diffuse
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_035

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Eye	Nasolacrimal Duct	Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Histiocytosis
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain		Hemorrhage
		Necrosis, Focal
Kidney		Nephropathy
Liver		Degeneration, Lipoid
Mammary gland		Hyperplasia, Nos
Ovary		Atrophy, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos
Spleen		Necrosis, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Nos
	Forestomach	Ulcer, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_037

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Necrosis, Nos
Nasal cavity		Hyperplasia, Epithelial
		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Spleen		Hematopoiesis
Unspecified	Groin	Neurilemoma, Malignant

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_038

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Eye

Nasolacrimal Duct

Inflammation, Suppurative

Heart

Fibrosis

Kidney

Inflammation, Nos

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Inflammation, Granulomatous Focal

Carcinoma, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_039

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Nasal cavity		Inflammation, Suppurative
Ovary		Atrophy, Nos
Pancreas		Atrophy, Focal
	Islets	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Glandular Stomach	Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_040

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart

Cortex Nos

Hyperplasia, Nos  
Fibrosis

Intestine Large  
Kidney  
Liver

Colon

Inflammation, Nos  
Parasitism  
Nephropathy  
Cytoplasmic Change, Basophilic  
Inflammation, Granulomatous Focal

Mammary gland  
Nasal cavity  
Pituitary gland  
Spleen  
Trachea

Anterior Pituitary

Hyperplasia, Nos  
Inflammation, Nos  
Adenoma, Nos  
Hemosiderosis  
Inflammation, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_041

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Cytoplasmic Vacuolization

Kidney

Nephropathy

Larynx

Inflammation, Nos

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_042

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Degeneration, Lipoid

Heart

Fibrosis

Kidney

Nephropathy

Larynx

Inflammation, Suppurative

Liver

Degeneration, Lipoid

Mammary gland

Necrosis, Nos

Nasal cavity

Hyperplasia, Nos

Pancreas

Inflammation, Suppurative

Parathyroid gland

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

Thyroid

Degeneration, Cystic

Unspecified

Anterior Pituitary

Hyperplasia, Nos

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_043

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Nephropathy
Liver		Degeneration, Lipoid
		Inflammation, Granulomatous Focal
	Periportal	Inflammation, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Spleen		Hemosiderosis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_044

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Heart		Fibrosis
		Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pancreas	Acinus	Focal Cellular Change
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_045

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Degeneration, Lipoid

Heart

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Lung

Fibrosis

Histiocytosis

Hyperplasia, Alveolar Epithelium

Mammary gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Spleen

Hemosiderosis

Thyroid

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_046

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Colon

Parasitism

Liver

Inflammation, Nos

Pituitary gland

Anterior Pituitary

Degeneration, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_047

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Degeneration, Lipoid
Eye	Lacrimal Apparatus	Inflammation, Nos
	Lacrimal Apparatus	Metaplasia, Squamous
Heart		Fibrosis
Kidney		Nephropathy
Mammary gland		Hyperplasia, Nos
Nasal cavity		Metaplasia, Squamous
		Thrombosis, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic
Stomach	Forestomach	Hyperplasia, Epithelial
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_048

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Clitoral gland		Adenoma, Nos
Heart		Fibrosis
		Inflammation, Nos
Intestine Large	Colon	Parasitism
	Rectum	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Cystic
	Anterior Pituitary	Hyperplasia, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04580F  
**Test Type:** Long-Term  
**Route:** Inhalation  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Tetrachloroethylene  
**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 10:52:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_049

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Blood vessel		Hypertrophy, Nos Inflammation, Chronic
Eye	Nasolacrimal Duct	Inflammation, Suppurative
Heart		Fibrosis Inflammation, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Hyperplasia, Nos
Nasal cavity		Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Degeneration, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04580F

**Test Type:** Long-Term

**Route:** Inhalation

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Tetrachloroethylene

**CAS Number:** 127-18-4

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 10:52:22

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_050

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Clitoral gland		Hyperplasia, Focal
		Inflammation, Suppurative
Heart		Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Nasal cavity		Inflammation, Nos
Ovary		Atrophy, Nos
Pancreas		Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE