

Experiment Number: 10472 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

F2_HSD Rats

NTP Study Number: C10472B
Lock Date: 08/29/2013
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 03/08/2016

Note: Animals arranged according to days on test.

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HARLAN SPRAGUE DAWLEY RATS MALE Control	DAY ON TEST																								ANIMAL ID	males (cont...)
	0 3 7 4	0 4 8 5	0 4 8 8	0 4 9 3	0 5 0 5	0 5 1 6	0 5 3 3	0 5 3 7	0 5 4 2	0 5 6 8	0 5 8 4	0 5 8 8	0 5 9 9	0 6 1 8	0 6 3 1	0 6 4 8	0 6 6 1	0 6 6 3	0 6 7 2	0 6 7 4	0 6 7 7	0 7 2 2	0 7 2 3	0 7 2 6		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00024		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000		
	2	3	1	4	0	4	3	5	1	1	4	1	2	3	3	4	1	2	2	1	0	0	0	00000		
	4	1	9	7	4	6	5	0	4	8	7	8	0	3	0	6	9	7	5	6	8	9	6	00000		

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	M	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Keratoacanthoma																								
Keratoacanthoma, Multiple																								
Squamous Cell Papilloma																X								
Sebaceous Gland, Adenoma																								X
Subcutaneous Tissue, Fibrous Histiocytoma																X								
Subcutaneous Tissue, Hemangioma																								
Subcutaneous Tissue, Lipoma																								

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																								

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glioma Malignant																								
Peripheral Nerve																								
Spinal Cord																								

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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	0 3 7 4	0 4 8 5	0 4 8 8	0 4 9 3	0 5 0 5	0 5 1 6	0 5 3 3	0 5 3 7	0 5 4 2	0 5 6 8	0 5 8 4	0 5 8 8	0 5 8 9	0 5 9 0	0 6 1 8	0 6 3 1	0 6 4 8	0 6 6 1	0 6 6 3	0 6 7 2	0 6 7 4	0 6 7 7	0 7 2 2	0 7 2 3			0 7 2 6
Lung Carcinoma, Metastatic, Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SPECIAL SENSES SYSTEM																											
Eye Iris, Leiomyoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Zymbal's Gland Carcinoma																											
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SYSTEMIC LESIONS																											
Multiple Organ Leukemia Granulocytic Leukemia Mononuclear Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
			X																								
															X			X		X							
																							X				

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HARLAN SPRAGUE DAWLEY RATS MALE Control	DAY ON TEST																									* TOTALS
	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	
ANIMAL ID	0001	0002	0003	0001	0002	0003	0002	0003	0004	0003	0007	0008	0003	0005	0009	0005	0007	0001	0002	0003	0005	0006	0001	0004	0002	0003
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Leiomyoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum Leiomyosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery																										2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Tooth Odontoma																										1 1

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								* TOTALS	
	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079	079		079
Control	0001	0002	0003	0001	0002	0003	0002	0004	0007	0008	0009	0004	0009	0005	0007	0000	0001	0002	0003	0000	0005	0006	0001	0004	0002	0003

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																										3
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pheochromocytoma Benign		X			X																	X		X		8
Pheochromocytoma Malignant												X														2
Bilateral, Pheochromocytoma Benign					X								X									X				4
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma			X		X	X		X																		8
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	48	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma	X			X	X								X	X						X	X	X			11	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Adenoma																							X			2
C-cell, Carcinoma													X													1

GENERAL BODY SYSTEM

NONE

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	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729		0729
ANIMAL ID	0001	0002	0003	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	50

GENITAL SYSTEM

Coagulating Gland																											1
Epididymis Sarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node					+																				+		7
Lymph Node, Bronchial	M	M	+	+	M	+	M	+	+	M	M	+	+	+	+	M	+	+	M	+	+	+	M	M	M	30	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	48	

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	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729		0729
ANIMAL ID	0001	0002	0003	0001	0002	0003	0002	0004	0007	0008	0009	0005	0009	0005	0007	0000	0001	0002	0003	0000	0005	0006	0001	0002	0003	0000	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Carcinoma, Metastatic, Lung																										1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Iris, Leiomyoma																										1	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Zymbal's Gland																										1	
Carcinoma																										1	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SYSTEMIC LESIONS																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Granulocytic																										1	
Leukemia Mononuclear																										3	
Mesothelioma Malignant																										1	

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HARLAN SPRAGUE DAWLEY RATS MALE 100 ppm	DAY ON TEST																								ANIMAL ID	males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	0	0	1	1	4	8	1	2	5	6	7	8	0	1	3	4	4	4	5	5	7	7	8	8	9	
	3	6	0	8	7	5	5	5	8	5	0	9	7	8	1	0	3	0	5	5	4	6	0	3	5	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	4	3	4	1	1	4	3	0	1	2	2	4	3	0	3	1	1	4	4	2	5	4	4	2	4	
	4	1	1	5	3	3	7	3	2	2	4	7	8	9	8	6	6	9	0	9	5	0	6	5		

Stomach, Glandular +

Tongue

CARDIOVASCULAR SYSTEM

Blood Vessel +

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex Adenoma +

Adrenal Medulla Pheochromocytoma Benign Bilateral, Pheochromocytoma Benign + + + + + + X + + + + + + + + + + + + X + + X + + +

Islets, Pancreatic Adenoma Carcinoma + X + + + + + X

Parathyroid Gland +

Pituitary Gland Carcinoma, Metastatic, Zymbal'S Gland Pars Distalis, Adenoma + + + + + + + + + + X + + + + + + + + + + X

Thyroid Gland Bilateral, C-cell, Adenoma C-cell, Adenoma + + + + + + + + + + M + + + + + + + + + + X

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0
3	3	3	3	3	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	
0	0	1	1	4	8	1	2	5	6	7	8	0	1	3	4	4	4	5	5	7	7	8	8	9	9	0	
3	6	0	8	7	5	5	5	8	5	0	9	7	8	1	0	3	0	5	5	4	6	0	3	5	5	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
4	3	4	1	1	4	3	0	1	2	2	4	3	0	3	1	1	4	4	2	5	4	4	2	4	4	0	
4	1	1	5	3	3	7	3	2	2	4	7	8	9	8	6	6	9	5	0	6	7	0	0	5	0	0	

Schwannoma Malignant, Metastatic, Skeletal Muscle

X

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma																									
Carcinoma, Metastatic, Salivary Glands			X																						
Carcinoma, Metastatic, Zymbal'S Gland											X														
Mediastinum, Paraganglioma																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Zymbal's Gland																									
Adenoma																									
Carcinoma																									

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 100 ppm	DAY ON TEST																									* TOTALS
	0710	0715	0727	0729	0739	0749	0759	0769	0779	0789	0799	0809	0819	0829	0839	0849	0859	0869	0879	0889	0899	0909	0919	0929		
ANIMAL ID	00211	00213	00221	00229	00239	00249	00259	00269	00279	00289	00299	00309	00319	00329	00339	00349	00359	00369	00379	00389	00399	00409	00419	00429		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum Adenocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	50 1
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum Adenocarcinoma	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	50 2
Liver Hepatocellular Adenoma Hepatocellular Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	50 1 2
Mesentery	+																								2
Pancreas Acinus, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Salivary Glands Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Stomach, Forestomach Squamous Cell Papilloma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE 100 ppm																								* TOTALS	
	ANIMAL ID	002111	000319	000024	000009	000007	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009	000009		000009
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1
	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	0
	0	5	7	4	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Tongue		+																								1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma													X													1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pheochromocytoma Benign					X										X	X		X					X			8
Bilateral, Pheochromocytoma Benign			X									X														5
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma													X					X	X					X		5
Carcinoma						X			X	X																4
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	48
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Carcinoma, Metastatic, Zymbal'S Gland																										1
Pars Distalis, Adenoma			X						X	X										X			X			6
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Bilateral, C-cell, Adenoma													X													1
C-cell, Adenoma								X														X		X		4

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 100 ppm	DAY ON TEST																									* TOTALS
	0710	0715	0717	0724	0729	0739	0749	0759	0769	0779	0789	0799	0809	0819	0829	0839	0849	0859	0869	0879	0889	0899	0909	0919		
ANIMAL ID	00211	00221	00222	00223	00224	00225	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	50	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Interstitial Cell, Adenoma																							X		2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node	+										+											+	+		7	
Lymph Node, Bronchial	M	M	+	M	M	+	+	+	+	+	M	M	+	M	M	+	+	+	+	M	+	+	M	+	M	26
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 100 ppm	DAY ON TEST																									* TOTALS	
	0710	0711	0712	0714	0715	0716	0717	0718	0719	0720	0721	0722	0723	0724	0725	0726	0727	0728	0729	0730	0731	0732	0733	0734	0735		
ANIMAL ID	00211	00213	00211	00219	00202	00204	00209	00207	00208	00206	00208	00203	00204	00205	00202	00201	00206	00207	00200	00204	00202	00202	00202	00203	00202		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	M	+	+	M	M	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	M	+	+	38		
Adenoma																									1		
Fibroadenoma													X												1		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Keratoacanthoma								X																X	2		
Squamous Cell Papilloma						X																		X	2		
Sebaceous Gland, Adenoma																							X		2		
Subcutaneous Tissue, Fibroma											X		X							X					4		
Subcutaneous Tissue, Fibrous Histiocytoma																									1		
Subcutaneous Tissue, Lipoma																X									1		
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Skeletal Muscle	+																						+		6		
Hemangiosarcoma																							X		1		
Schwannoma Malignant																									1		
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Glioma Malignant																						X			1		
Peripheral Nerve	+																								5		
Spinal Cord	+																								5		

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								ANIMAL ID	* TOTALS
	0710	0715	0717	0722	0724	0729	0731	0732	0739	0741	0742	0749	0751	0752	0759	0761	0762	0769	0771	0772	0779	0781	0782	0789		
100 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00211	1

Schwannoma Malignant, Metastatic, Skeletal Muscle

1

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma							X																		2
Carcinoma, Metastatic, Salivary Glands																									1
Carcinoma, Metastatic, Zymbal'S Gland																									1
Mediastinum, Paraganglioma										X															1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Zymbal's Gland																									2
Adenoma																									1
Carcinoma																									1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

		DAY ON TEST																								males (cont...)	
HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm		0 4 6 3	0 4 7 7	0 5 0 0	0 5 1 4	0 5 2 8	0 5 2 8	0 5 3 0	0 5 3 4	0 5 7 1	0 5 9 0	0 5 9 7	0 6 0 3	0 6 0 7	0 6 0 7	0 6 1 1	0 6 1 8	0 6 1 8	0 6 2 6	0 6 3 5	0 6 3 5	0 6 5 5	0 6 6 9	0 6 7 4	0 6 7 8		0 6 8 3
		0 0 4 0 1	0 0 4 4 4	0 0 4 3 6	0 0 4 4 9	0 0 4 4 8	0 0 4 4 8	0 0 4 4 3	0 0 4 4 0	0 0 4 4 3	0 0 4 4 7	0 0 4 4 6	0 0 4 4 4	0 0 4 4 2	0 0 4 4 4	0 0 4 4 2	0 0 4 4 3	0 0 4 4 2	0 0 4 4 1	0 0 4 4 5	0 0 4 4 7	0 0 4 4 8	0 0 4 4 4	0 0 4 4 8	0 0 1 0 5		0 0 4 0 1
	ANIMAL ID																										

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Adenocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesentery				+																							
Pancreas Acinus, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST																								ANIMAL ID	males (cont...)
	0 4 6 3	0 4 7 7	0 5 0 0	0 5 1 4	0 5 2 8	0 5 2 8	0 5 3 0	0 5 3 4	0 5 7 1	0 5 9 0	0 5 9 7	0 6 0 3	0 6 0 7	0 6 0 7	0 6 1 1	0 6 1 8	0 6 1 8	0 6 2 6	0 6 3 3	0 6 3 5	0 6 5 5	0 6 6 9	0 6 7 4	0 6 7 8		
	0 0 4 0 1	0 0 4 4 4	0 0 4 3 6	0 0 4 1 6	0 0 4 3 9	0 0 4 4 8	0 0 4 0 8	0 0 4 3 7	0 0 4 3 4	0 0 4 3 6	0 0 4 2 4	0 0 4 2 7	0 0 4 2 0	0 0 4 2 4	0 0 4 2 3	0 0 4 2 2	0 0 4 3 1	0 0 4 4 0	0 0 4 4 5	0 0 4 4 7	0 0 4 2 8	0 0 4 0 4	0 0 4 1 8	0 0 4 0 5	0 0 4 0 5	

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Endocardium, Schwannoma Malignant	X																									

ENDOCRINE SYSTEM

Adrenal Cortex Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Malignant			X		X			X			X					X					X		X			
Bilateral, Pheochromocytoma Benign							X		X					X												
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland Bilateral, C-cell, Adenoma	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Adenoma																										
C-cell, Carcinoma																										X
Follicular Cell, Adenoma																										

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST		ANIMAL ID																				males (cont...)		
	0 4 6 3	0 4 7 7	0 5 0 0	0 5 1 4	0 5 2 8	0 5 2 8	0 5 3 0	0 5 3 4	0 5 7 1	0 5 9 0	0 5 9 7	0 6 0 3	0 6 0 7	0 6 0 7	0 6 1 1	0 6 1 8	0 6 1 8	0 6 2 6	0 6 3 3	0 6 3 5	0 6 5 5	0 6 6 9		0 6 7 4	0 6 7 8
	0 0 4 0 1	0 0 4 4 6	0 0 4 4 6	0 0 4 4 6	0 0 4 4 9	0 0 4 4 8	0 0 4 4 8	0 0 4 4 0	0 0 4 4 7	0 0 4 4 6	0 0 4 4 4	0 0 4 4 7	0 0 4 4 0	0 0 4 4 2	0 0 4 4 3	0 0 4 4 2	0 0 4 4 1	0 0 4 4 5	0 0 4 4 7	0 0 4 4 8	0 0 4 4 4	0 0 4 4 8	0 0 4 4 5	0 0 4 4 5	0 0 4 4 5

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes Interstitial Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node				+			+							+			+	+	+		+				
Lymph Node, Bronchial	+	+	+	M	+	+	M	+	M	+	M	+	M	+	+	+	M	+	M	+	M	M	+	+	+
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

		DAY ON TEST																								males (cont...)
HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	ANIMAL ID	0 4 6 3	0 4 7 7	0 5 0 0	0 5 1 4	0 5 2 8	0 5 2 8	0 5 3 0	0 5 3 4	0 5 7 1	0 5 9 0	0 5 9 7	0 6 0 3	0 6 0 7	0 6 0 7	0 6 1 1	0 6 1 8	0 6 2 6	0 6 3 5	0 6 3 5	0 6 5 9	0 6 7 4	0 6 7 8	0 6 8 3		
		0 0 4 0 1	0 0 4 3 4	0 0 4 1 6	0 0 4 3 6	0 0 4 1 9	0 0 4 0 8	0 0 4 0 8	0 0 4 0 0	0 0 4 3 7	0 0 4 3 4	0 0 4 2 4	0 0 4 2 7	0 0 4 4 4	0 0 4 4 0	0 0 4 4 2	0 0 4 4 3	0 0 4 4 2	0 0 4 4 3	0 0 4 4 2	0 0 4 4 7	0 0 4 4 8	0 0 4 4 4	0 0 4 4 8	0 0 4 0 5	

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	M	+	+	+	M	+	M	M	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basal Cell Adenoma																									
Keratoacanthoma																									
Keratoacanthoma, Multiple																									
Sebaceous Gland, Adenoma																									
Subcutaneous Tissue, Fibroma										X	X														
Subcutaneous Tissue, Hemangioma																X									
Subcutaneous Tissue, Lipoma																									
Subcutaneous Tissue, Schwannoma Malignant																									

MUSCULOSKELETAL SYSTEM

Bone Osteosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									+

NERVOUS SYSTEM

Brain Glioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve																									+
Spinal Cord																									+

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST																				ANIMAL ID	males (cont...)					
	0 4 6 3	0 4 7 7	0 5 0 0	0 5 1 4	0 5 2 8	0 5 2 8	0 5 3 0	0 5 3 4	0 5 7 1	0 5 9 0	0 5 9 7	0 6 0 3	0 6 0 7	0 6 0 7	0 6 1 1	0 6 1 8	0 6 1 8	0 6 2 6	0 6 3 5	0 6 3 5			0 6 5 5	0 6 6 9	0 6 7 4	0 6 7 8	0 6 8 3
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lung Pheochromocytoma Malignant, Metastatic, Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
URINARY SYSTEM																											
Kidney Lipoma Renal Tubule, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Urinary Bladder Urothelium, Papilloma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SYSTEMIC LESIONS																											
Multiple Organ Histiocytic Sarcoma Lymphoma Malignant Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								* TOTALS	
	0689	0691	0696	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697		0697
ANIMAL ID	00421	00441	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum Adenocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery																											1
Pancreas Acinus, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST																								* TOTALS	
	0689	0691	0696	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697	0697		
ANIMAL ID	00421	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441	00441		
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Heart Endocardium, Schwannoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1	
ENDOCRINE SYSTEM																										
Adrenal Cortex Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1	
Adrenal Medulla Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 12	
Pheochromocytoma Malignant																									2	
Bilateral, Pheochromocytoma Benign																									4	
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49 7	
Thyroid Gland Bilateral, C-cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49 1	
C-cell, Adenoma																									2	
C-cell, Carcinoma																									1	
Follicular Cell, Adenoma																									1	
GENERAL BODY SYSTEM																										
NONE																										

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
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 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST		ANIMAL ID																				* TOTALS			
	0689	0661	0696	0697	0697	0673	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677		0677	0677	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	2	1	4	0	1	3	1	2	2	4	0	0	1	1	2	2	3	5	0	1	1	3	3	3	4	
	1	4	1	9	9	8	1	5	7	9	2	3	2	7	6	9	4	0	6	0	3	2	3	5	3	50

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes Interstitial Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node										+													+		10	
Lymph Node, Bronchial	+	+	M	M	+	M	+	M	+	M	+	+	+	M	M	+	M	+	+	M	M	M	M	+	+	29
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	

* .. Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 10472 - 03
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST		ANIMAL ID																												* TOTALS					
	0689	0661	0666	0667	0670	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671	0671		0671	0671	0671	0671	0671
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lung Pheochromocytoma Malignant, Metastatic, Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
SPECIAL SENSES SYSTEM																																				
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
URINARY SYSTEM																																				
Kidney Lipoma Renal Tubule, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 2
Urinary Bladder Urothelium, Papilloma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
SYSTEMIC LESIONS																																				
Multiple Organ Histiocytic Sarcoma Lymphoma Malignant Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1 1

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 p-Chloro-a,a,a-trifluorotoluene
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HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																								ANIMAL ID	males (cont...)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	0096	00421	00430	00436	00437	00442	00444	00448	00456	00462	00466	00472	00478	00484	00490	00496	00502	00508	00514	00520	00526	00532	00538	00544			00600	00606	00612	00618	00624	00630	00636	00642	00648	00654	00660	00666	00672	00678	00684	00690	00696	00702	00708	00714	00720	00726	00732	00738	00744	00750	00756	00762	00768	00774	00780	00786	00792	00798	00804	00810	00816	00822	00828	00834	00840	00846	00852	00858	00864	00870	00876	00882	00888	00894	00900	00906	00912	00918	00924	00930	00936	00942	00948	00954	00960	00966	00972	00978	00984	00990	00996	01002	01008	01014	01020	01026	01032	01038	01044	01050	01056	01062	01068	01074	01080	01086	01092	01098	01104	01110	01116	01122	01128	01134	01140	01146	01152	01158	01164	01170	01176	01182	01188	01194	01200	01206	01212	01218	01224	01230	01236	01242	01248	01254	01260	01266	01272	01278	01284	01290	01296	01302	01308	01314	01320	01326	01332	01338	01344	01350	01356	01362	01368	01374	01380	01386	01392	01398	01404	01410	01416	01422	01428	01434	01440	01446	01452	01458	01464	01470	01476	01482	01488	01494	01500	01506	01512	01518	01524	01530	01536	01542	01548	01554	01560	01566	01572	01578	01584	01590	01596	01602	01608	01614	01620	01626	01632	01638	01644	01650	01656	01662	01668	01674	01680	01686	01692	01698	01704	01710	01716	01722	01728	01734	01740	01746	01752	01758	01764	01770	01776	01782	01788	01794	01800	01806	01812	01818	01824	01830	01836	01842	01848	01854	01860	01866	01872	01878	01884	01890	01896	01902	01908	01914	01920	01926	01932	01938	01944	01950	01956	01962	01968	01974	01980	01986	01992	01998	02004	02010	02016	02022	02028	02034	02040	02046	02052	02058	02064	02070	02076	02082	02088	02094	02100	02106	02112	02118	02124	02130	02136	02142	02148	02154	02160	02166	02172	02178	02184	02190	02196	02202	02208	02214	02220	02226	02232	02238	02244	02250	02256	02262	02268	02274	02280	02286	02292	02298	02304	02310	02316	02322	02328	02334	02340	02346	02352	02358	02364	02370	02376	02382	02388	02394	02400	02406	02412	02418	02424	02430	02436	02442	02448	02454	02460	02466	02472	02478	02484	02490	02496	02502	02508	02514	02520	02526	02532	02538	02544	02550	02556	02562	02568	02574	02580	02586	02592	02598	02604	02610	02616	02622	02628	02634	02640	02646	02652	02658	02664	02670	02676	02682	02688	02694	02700	02706	02712	02718	02724	02730	02736	02742	02748	02754	02760	02766	02772	02778	02784	02790	02796	02802	02808	02814	02820	02826	02832	02838	02844	02850	02856	02862	02868	02874	02880	02886	02892	02898	02904	02910	02916	02922	02928	02934	02940	02946	02952	02958	02964	02970	02976	02982	02988	02994	03000	03006	03012	03018	03024	03030	03036	03042	03048	03054	03060	03066	03072	03078	03084	03090	03096	03102	03108	03114	03120	03126	03132	03138	03144	03150	03156	03162	03168	03174	03180	03186	03192	03198	03204	03210	03216	03222	03228	03234	03240	03246	03252	03258	03264	03270	03276	03282	03288	03294	03300	03306	03312	03318	03324	03330	03336	03342	03348	03354	03360	03366	03372	03378	03384	03390	03396	03402	03408	03414	03420	03426	03432	03438	03444	03450	03456	03462	03468	03474	03480	03486	03492	03498	03504	03510	03516	03522	03528	03534	03540	03546	03552	03558	03564	03570	03576	03582	03588	03594	03600	03606	03612	03618	03624	03630	03636	03642	03648	03654	03660	03666	03672	03678	03684	03690	03696	03702	03708	03714	03720	03726	03732	03738	03744	03750	03756	03762	03768	03774	03780	03786	03792	03798	03804	03810	03816	03822	03828	03834	03840	03846	03852	03858	03864	03870	03876	03882	03888	03894	03900	03906	03912	03918	03924	03930	03936	03942	03948	03954	03960	03966	03972	03978	03984	03990	03996	04002	04008	04014	04020	04026	04032	04038	04044	04050	04056	04062	04068	04074	04080	04086	04092	04098	04104	04110	04116	04122	04128	04134	04140	04146	04152	04158	04164	04170	04176	04182	04188	04194	04200	04206	04212	04218	04224	04230	04236	04242	04248	04254	04260	04266	04272	04278	04284	04290	04296	04302	04308	04314	04320	04326	04332	04338	04344	04350	04356	04362	04368	04374	04380	04386	04392	04398	04404	04410	04416	04422	04428	04434	04440	04446	04452	04458	04464	04470	04476	04482	04488	04494	04500	04506	04512	04518	04524	04530	04536	04542	04548	04554	04560	04566	04572	04578	04584	04590	04596	04602	04608	04614	04620	04626	04632	04638	04644	04650	04656	04662	04668	04674	04680	04686	04692	04698	04704	04710	04716	04722	04728	04734	04740	04746	04752	04758	04764	04770	04776	04782	04788	04794	04800	04806	04812	04818	04824	04830	04836	04842	04848	04854	04860	04866	04872	04878	04884	04890	04896	04902	04908	04914	04920	04926	04932	04938	04944	04950	04956	04962	04968	04974	04980	04986	04992	04998	05004	05010	05016	05022	05028	05034	05040	05046	05052	05058	05064	05070	05076	05082	05088	05094	05100	05106	05112	05118	05124	05130	05136	05142	05148	05154	05160	05166	05172	05178	05184	05190	05196	05202	05208	05214	05220	05226	05232	05238	05244	05250	05256	05262	05268	05274	05280	05286	05292	05298	05304	05310	05316	05322	05328	05334	05340	05346	05352	05358	05364	05370	05376	05382	05388	05394	05400	05406	05412	05418	05424	05430	05436	05442	05448	05454	05460	05466	05472	05478	05484	05490	05496	05502	05508	05514	05520	05526	05532	05538	05544	05550	05556	05562	05568	05574	05580	05586	05592	05598	05604	05610	05616	05622	05628	05634	05640	05646	05652	05658	05664	05670	05676	05682	05688	05694	05700	05706	05712	05718	05724	05730	05736	05742	05748	05754	05760	05766	05772	05778	05784	05790	05796	05802	05808	05814	05820	05826	05832	05838	05844	05850	05856	05862	05868	05874	05880	05886	05892	05898	05904	05910	05916	05922	05928	05934	05940	05946	05952	05958	05964	05970	05976	05982	05988	05994	05998	06004	06010	06016	06022	06028	06034	06040	06046	06052	06058	06064	06070	06076	06082	06088	06094	06100	06106	06112	06118	06124	06130	06136	06142	06148	06154	06160	06166	06172	06178	06184	06190	06196	06202	06208	06214	06220	06226	06232	06238	06244	06250	06256	06262	06268	06274	06280	06286	06292	06298	06304	06310	06316	06322	06328	06334	06340	06346	06352	06358	06364	06370	06376	06382	06388	06394	06400	06406	06412	06418	06424	06430	06436	06442	06448	06454	06460	06466	06472	06478	06484	06490	06496	06502	06508	06514	06520	06526	06532	06538	06544	06550	06556	06562	06568	06574	06580	06586	06592	06598	06604	06610	06616	06622	06628	06634	06640	06646	06652	06658	06664	06670	06676	06682	06688	06694	06700	06706	06712	06718	06724	06730	06736	06742	06748	06754	06760	06766	06772	06778	06784	06790	06796	06802	06808	06814	06820	06826	06832	06838	06844	06850	06856	06862	06868	06874	06880	06886	06892	06898	06904	06910	06916	06922	06928	06934	06940	06946	06952	06958	06964	06970	06976	06982	06988	06994	06998	07004	07010	07016	07022	07028	07034	07040	07046	07052	07058	07064	07070	07076	07082	07088	07094	07100	07106	07112	07118	07124	07130	07136	07142	07148	07154	07160	07166	07172	07178	07184	07190	07196	07202	07208	07214	07220	07226	07232	07238	07244	07250	07256	07262	07268	07274	07280	07286	07292	07298	07304	07310	07316	07322	07328	07334	07340	07346	07352	07358	07364	07370	07376	07382	07388	07394	07400	07406	07412	07418	07424	07430	07436	07442	07448	07454	07460	07466	07472	07478	07484	07490	07496	07502	07508	07514	07520	07526	07532	07538	07544	07550	07556	07562	07568	07574	07580	07586	07592	07598	07604	07610	07616

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																				ANIMAL ID	males (cont...)			
	0096	0042	0043	0046	0047	0048	0048	0048	0049	0051	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055			0056	0061	0061
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	4	3	3	1	2	3	0	4	0	4	0	2	4	4	2	5	4	0	3	4	2	2	2	3	
	8	7	2	8	3	1	4	7	3	1	8	7	0	2	9	0	7	6	6	5	2	5	4	2	X

Follicular Cell, Adenoma

X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node					+					+												+			
Lymph Node, Bronchial	+	+	+	+	M	M	M	M	+	+	M	M	M	M	+	+	M	M	+	+	+	+	+	M	M
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST		ANIMAL ID																				males (cont...)			
	0096	0096	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648	006648		006648	006648	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	M	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	M	+	M	M	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Keratoacanthoma				X																						
Squamous Cell Papilloma													X													
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Peripheral Nerve																										
Spinal Cord																										
RESPIRATORY SYSTEM																										
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma																										
Alveolar/Bronchiolar Carcinoma																										

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																								* TOTALS
	0617	0621	0624	0628	0629	0634	0634	0631	0638	0638	0622	0626	0628	0633	0633	0634	0639	0639	0639	0639	0639	0639	0639	0639	
ANIMAL ID	00628	00638	00635	00636	00634	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	00630	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	
	1	2	4	4	4	5	5	6	6	6	7	8	8	0	0	0	0	1	1	2	2	2	3	3	
	7	1	5	8	9	4	4	1	8	8	2	6	8	3	3	4	9	5	8	7	9	9	0	0	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Carcinoma																								1
Schwannoma Malignant, Metastatic, Heart																								1
Mesentery														+										1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Acinus, Adenoma				X																				1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST		ANIMAL ID																				* TOTALS					
	0617	0615	0644	0648	0649	0654	0664	0666	0668	0668	0668	0672	0676	0678	0680	0681	0683	0685	0687	0689	0691	0692		0693	0694	0695	0696	0697
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	49
INTEGUMENTARY SYSTEM																												
Mammary Gland	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	M	+	M	M	M	+	+	+	+	37
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Keratoacanthoma																											X	3
Squamous Cell Papilloma																											X	1
MUSCULOSKELETAL SYSTEM																												
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle														+														2
NERVOUS SYSTEM																												
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Peripheral Nerve														+														2
Spinal Cord														+														2
RESPIRATORY SYSTEM																												
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma																												1
Alveolar/Bronchiolar Carcinoma																											X	2

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE Control	DAY ON TEST		ANIMAL ID																				females (cont...)	
	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	1	1	1	7	5	5	8	2	3	3	3	3	4	5	5	8	9	9	9	9	4	6
	3	1	1	1	3	0	9	4	8	4	4	4	6	6	0	6	9	4	0	1	9	6	6	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	1	2	0	3	2	2	3	1	1	3	4	1	4	4	0	4	1	3	1	0	1	4	1
	9	1	2	5	6	6	1	3	2	4	8	4	7	2	7	4	6	3	9	6	3	1	4	0

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma																							
Mesentery													+										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE Control	DAY ON TEST																								ANIMAL ID	females (cont...)	
	030	033	037	040	044	048	052	055	059	063	067	071	075	079	083	087	091	095	099	103	107	111	115	119			123
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	001111111111111111111111	

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex +

Adrenal Medulla +

Islets, Pancreatic Adenoma Carcinoma +

Parathyroid Gland + + + + + M + + + M + + + + + + + + + + + M + + +

Pituitary Gland Pars Distalis, Adenoma + + + + + + + + X X + + + + + X + X X X X X

Thyroid Gland C-cell, Adenoma + + + + + + + + + + X + + + + + + + + + + + + + +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland +

Ovary Granulosa Cell Tumor Benign Thecoma Benign + X + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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Experiment Number: 10472 - 03
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 Route: RESPIRATORY EXPOSURE WHOLE BODY
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 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE Control	DAY ON TEST																								ANIMAL ID	females (cont...)
	0 3 0 3	0 3 1 1	0 3 1 1	0 3 7 3	0 4 5 0	0 4 5 9	0 4 4 4	0 5 8 8	0 5 2 4	0 5 3 4	0 5 3 4	0 5 3 4	0 5 3 4	0 5 3 4	0 5 4 0	0 5 5 6	0 5 8 9	0 5 9 0	0 5 9 1	0 5 9 9	0 6 4 6	0 6 4 6	0 6 6 4	0 6 7 4		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0011		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1111		
	3	1	2	0	3	2	2	3	1	1	3	4	1	4	4	0	4	1	3	1	0	1	4	3120		
	9	1	2	5	6	6	1	3	2	4	8	4	7	2	7	4	0	6	0	9	6	3	1	9125		

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																								
Polyp Stromal																		X			X			
Squamous Cell Carcinoma																								
Vagina	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Granular Cell Tumor Benign																								
Schwannoma Malignant								X																

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																							+	
Lymph Node, Bronchial	M	+	+	+	M	M	+	+	+	M	M	M	+	+	+	M	+	M	+	+	M	+	M	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma	X															X						X		
Adenoma							X																	

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Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE Control	DAY ON TEST																								females (cont...)
	0 3 0 3	0 3 1 1	0 3 1 1	0 3 7 3	0 4 5 0	0 4 5 9	0 4 4 4	0 5 8 8	0 5 2 4	0 5 3 4	0 5 3 4	0 5 3 4	0 5 3 4	0 5 3 4	0 5 4 0	0 5 5 6	0 5 8 9	0 5 9 0	0 5 9 1	0 5 9 9	0 6 4 6	0 6 4 6	0 6 4 4	0 6 6 7	
ANIMAL ID	0 0 1 3 9	0 0 1 1 1	0 0 1 2 2	0 0 1 3 5	0 0 1 2 6	0 0 1 2 2	0 0 1 3 1	0 0 1 3 2	0 0 1 1 4	0 0 1 1 3	0 0 1 1 4	0 0 1 3 8	0 0 1 4 7	0 0 1 4 2	0 0 1 4 4	0 0 1 0 4	0 0 1 4 6	0 0 1 3 0	0 0 1 1 9	0 0 1 1 6	0 0 1 1 3	0 0 1 1 4	0 0 1 1 1	0 0 1 1 0	0 0 1 1 4
Fibroadenoma		X	X		X				X	X		X									X	X			
Fibroadenoma, Multiple																									X
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basal Cell Carcinoma											X														
MUSCULOSKELETAL SYSTEM																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																									
Liposarcoma																									
NERVOUS SYSTEM																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glioma Malignant																									
Cranial Nerve, Schwannoma Malignant																									
Peripheral Nerve																									
Spinal Cord																									
RESPIRATORY SYSTEM																									
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basal Cell Carcinoma, Metastatic, Skin												X													
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE Control	DAY ON TEST																								* TOTALS	
	0696	0710	0729	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731		
ANIMAL ID	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123	00123		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	49	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																								X	1	
Carcinoma		X																							1	
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	45	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma	X	X	X	X	X				X						X	X	X	X							18	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Adenoma																									2	
GENERAL BODY SYSTEM																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granulosa Cell Tumor Benign																X						X			3	
Thecoma Benign																		X							1	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
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 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE Control	DAY ON TEST																								* TOTALS
	0696	0710	0712	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	0713	
ANIMAL ID	00123	00127	00130	00132	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	00133	
Fibroadenoma	X				X		X				X				X		X		X		X				17
Fibroadenoma, Multiple										X													X		3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basal Cell Carcinoma																									1
MUSCULOSKELETAL SYSTEM																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																									3
Liposarcoma																							X		1
NERVOUS SYSTEM																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Glioma Malignant																							X		1
Cranial Nerve, Schwannoma Malignant																									1
Peripheral Nerve																									1
Spinal Cord																									1
RESPIRATORY SYSTEM																									
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basal Cell Carcinoma, Metastatic, Skin																									1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10472 - 03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

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First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS FEMALE																									* TOTALS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Control																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
ANIMAL ID	0696	0710	0712	0719	0723	0731	0733	0738	0741	0743	0747	0751	0753	0757	0761	0763	0767	0771	0773	0777	0781	0783	0787	0791	0793	0797	0801	0803	0807	0811	0813	0817	0821	0823	0827	0831	0833	0837	0841	0843	0847	0851	0853	0857	0861	0863	0867	0871	0873	0877	0881	0883	0887	0891	0893	0897	0901	0903	0907	0911	0913	0917	0921	0923	0927	0931	0933	0937	0941	0943	0947	0951	0953	0957	0961	0963	0967	0971	0973	0977	0981	0983	0987	0991	0993	0997	1001	1003	1007	1011	1013	1017	1021	1023	1027	1031	1033	1037	1041	1043	1047	1051	1053	1057	1061	1063	1067	1071	1073	1077	1081	1083	1087	1091	1093	1097	1101	1103	1107	1111	1113	1117	1121	1123	1127	1131	1133	1137	1141	1143	1147	1151	1153	1157	1161	1163	1167	1171	1173	1177	1181	1183	1187	1191	1193	1197	1201	1203	1207	1211	1213	1217	1221	1223	1227	1231	1233	1237	1241	1243	1247	1251	1253	1257	1261	1263	1267	1271	1273	1277	1281	1283	1287	1291	1293	1297	1301	1303	1307	1311	1313	1317	1321	1323	1327	1331	1333	1337	1341	1343	1347	1351	1353	1357	1361	1363	1367	1371	1373	1377	1381	1383	1387	1391	1393	1397	1401	1403	1407	1411	1413	1417	1421	1423	1427	1431	1433	1437	1441	1443	1447	1451	1453	1457	1461	1463	1467	1471	1473	1477	1481	1483	1487	1491	1493	1497	1501	1503	1507	1511	1513	1517	1521	1523	1527	1531	1533	1537	1541	1543	1547	1551	1553	1557	1561	1563	1567	1571	1573	1577	1581	1583	1587	1591	1593	1597	1601	1603	1607	1611	1613	1617	1621	1623	1627	1631	1633	1637	1641	1643	1647	1651	1653	1657	1661	1663	1667	1671	1673	1677	1681	1683	1687	1691	1693	1697	1701	1703	1707	1711	1713	1717	1721	1723	1727	1731	1733	1737	1741	1743	1747	1751	1753	1757	1761	1763	1767	1771	1773	1777	1781	1783	1787	1791	1793	1797	1801	1803	1807	1811	1813	1817	1821	1823	1827	1831	1833	1837	1841	1843	1847	1851	1853	1857	1861	1863	1867	1871	1873	1877	1881	1883	1887	1891	1893	1897	1901	1903	1907	1911	1913	1917	1921	1923	1927	1931	1933	1937	1941	1943	1947	1951	1953	1957	1961	1963	1967	1971	1973	1977	1981	1983	1987	1991	1993	1997	2001	2003	2007	2011	2013	2017	2021	2023	2027	2031	2033	2037	2041	2043	2047	2051	2053	2057	2061	2063	2067	2071	2073	2077	2081	2083	2087	2091	2093	2097	2101	2103	2107	2111	2113	2117	2121	2123	2127	2131	2133	2137	2141	2143	2147	2151	2153	2157	2161	2163	2167	2171	2173	2177	2181	2183	2187	2191	2193	2197	2201	2203	2207	2211	2213	2217	2221	2223	2227	2231	2233	2237	2241	2243	2247	2251	2253	2257	2261	2263	2267	2271	2273	2277	2281	2283	2287	2291	2293	2297	2301	2303	2307	2311	2313	2317	2321	2323	2327	2331	2333	2337	2341	2343	2347	2351	2353	2357	2361	2363	2367	2371	2373	2377	2381	2383	2387	2391	2393	2397	2401	2403	2407	2411	2413	2417	2421	2423	2427	2431	2433	2437	2441	2443	2447	2451	2453	2457	2461	2463	2467	2471	2473	2477	2481	2483	2487	2491	2493	2497	2501	2503	2507	2511	2513	2517	2521	2523	2527	2531	2533	2537	2541	2543	2547	2551	2553	2557	2561	2563	2567	2571	2573	2577	2581	2583	2587	2591	2593	2597	2601	2603	2607	2611	2613	2617	2621	2623	2627	2631	2633	2637	2641	2643	2647	2651	2653	2657	2661	2663	2667	2671	2673	2677	2681	2683	2687	2691	2693	2697	2701	2703	2707	2711	2713	2717	2721	2723	2727	2731	2733	2737	2741	2743	2747	2751	2753	2757	2761	2763	2767	2771	2773	2777	2781	2783	2787	2791	2793	2797	2801	2803	2807	2811	2813	2817	2821	2823	2827	2831	2833	2837	2841	2843	2847	2851	2853	2857	2861	2863	2867	2871	2873	2877	2881	2883	2887	2891	2893	2897	2901	2903	2907	2911	2913	2917	2921	2923	2927	2931	2933	2937	2941	2943	2947	2951	2953	2957	2961	2963	2967	2971	2973	2977	2981	2983	2987	2991	2993	2997	3001	3003	3007	3011	3013	3017	3021	3023	3027	3031	3033	3037	3041	3043	3047	3051	3053	3057	3061	3063	3067	3071	3073	3077	3081	3083	3087	3091	3093	3097	3101	3103	3107	3111	3113	3117	3121	3123	3127	3131	3133	3137	3141	3143	3147	3151	3153	3157	3161	3163	3167	3171	3173	3177	3181	3183	3187	3191	3193	3197	3201	3203	3207	3211	3213	3217	3221	3223	3227	3231	3233	3237	3241	3243	3247	3251	3253	3257	3261	3263	3267	3271	3273	3277	3281	3283	3287	3291	3293	3297	3301	3303	3307	3311	3313	3317	3321	3323	3327	3331	3333	3337	3341	3343	3347	3351	3353	3357	3361	3363	3367	3371	3373	3377	3381	3383	3387	3391	3393	3397	3401	3403	3407	3411	3413	3417	3421	3423	3427	3431	3433	3437	3441	3443	3447	3451	3453	3457	3461	3463	3467	3471	3473	3477	3481	3483	3487	3491	3493	3497	3501	3503	3507	3511	3513	3517	3521	3523	3527	3531	3533	3537	3541	3543	3547	3551	3553	3557	3561	3563	3567	3571	3573	3577	3581	3583	3587	3591	3593	3597	3601	3603	3607	3611	3613	3617	3621	3623	3627	3631	3633	3637	3641	3643	3647	3651	3653	3657	3661	3663	3667	3671	3673	3677	3681	3683	3687	3691	3693	3697	3701	3703	3707	3711	3713	3717	3721	3723	3727	3731	3733	3737	3741	3743	3747	3751	3753	3757	3761	3763	3767	3771	3773	3777	3781	3783	3787	3791	3793	3797	3801	3803	3807	3811	3813	3817	3821	3823	3827	3831	3833	3837	3841	3843	3847	3851	3853	3857	3861	3863	3867	3871	3873	3877	3881	3883	3887	3891	3893	3897	3901	3903	3907	3911	3913	3917	3921	3923	3927	3931	3933	3937	3941	3943	3947	3951	3953	3957	3961	3963	3967	3971	3973	3977	3981	3983	3987	3991	3993	3997	4001	4003	4007	4011	4013	4017	4021	4023	4027	4031	4033	4037	4041	4043	4047	4051	4053	4057	4061	4063	4067	4071	4073	4077	4081	4083	4087	4091	4093	4097	4101	4103	4107	4111	4113	4117	4121	4123	4127	4131	4133	4137	4141	4143	4147	4151	4153	4157	4161	4163	4167	4171	4173	4177	4181	4183	4187	4191	4193	4197	4201	4203	4207	4211	4213	4217	4221	4223	4227	4231	4233	4237	4241	4243	4247	4251	4253	4257	4261	4263	4267	4271	4273	4277	4281	4283	4287	4291	4293	4297	4301	4303	4307	4311	4313	4317	4321	4323	4327	4331	4333	4337	4341	4343	4347	4351	4353	4357	4361	4363	4367	4371	4373	4377	4381	4383	4387	4391	4393	4397	4401	4403	4407	4411	4413	4417	4421	4423	4427	4431	4433	4437	4441	4443	4447	4451	4453	4457	4461	4463	4467	4471	4473	4477	4481	4483	4487	4491	4493	4497	4501	4503	4507	4511	4513	4517	4521	4523	4527	4531	4533	4537	4541	4543	4547	4551	4553	4557	4561	4563	4567	4571	4573	4577	4581	4583	4587	4591	4593	4597	4601	4603	4607	4611	4613	4617	4621	4623	4627	4631	4633	4637	4641	4643	4647	4651	4653	4657	4661	4663	4667	4671	4673	4677	4681	4683	4687	4691	4693	4697	4701	4703	4707	4711	4713	4717	4721	4723	4727	4731	4733	4737	4741	4743	4747	4751	4753	4757	4761	4763	4767	4771	4773	4777	4781	4783	4787	4791	4793	4797	4801	4803	4807	4811	4813	4817	4821	4823	4827	4831	4833	4837	4841	4843	4847	4851	4853	4857	4861	4863	4867	4871	4873	4877	4881	4883	4887	4891	4893	4897	4901	4903	4907	4911	4913	4917	4921	4923	4927	4931	4933	4937	4941	4943	4947	4951	4953	4957	4961	4963	4967	4971	4973	4977	4981	4983	4987	4991	4993	4997	5001	5003	5007	5011	5013	5017	5021	5023	5027	5031	5033	5037	5041	5043	5047	5051	5053	5057	5061	5063	5067	

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 100 ppm	DAY ON TEST																								ANIMAL ID	females (cont...)	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0
	0	3	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	
	6	9	5	5	6	1	3	3	3	3	5	8	1	1	1	4	4	4	4	4	5	7	7	7	7	0	
	5	5	8	9	3	1	4	4	4	7	8	5	2	2	8	0	3	6	6	6	8	2	3	4	4	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	
	2	3	4	4	1	2	0	0	4	2	3	3	0	1	0	4	2	0	2	2	4	1	4	0	3	0	
	6	6	9	2	8	2	3	8	0	4	4	9	5	3	6	5	2	4	3	7	4	6	4	8	0		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cholangiocarcinoma																									
Hepatocellular Adenoma																									
Mesentery																									
Schwannoma Malignant, Metastatic, Skeletal Muscle																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acinus, Adenoma																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 100 ppm	DAY ON TEST																								females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6	3	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6		
ANIMAL ID	5	5	8	9	3	1	4	4	4	7	8	5	2	2	8	0	3	6	6	6	2	3	4		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
	2	3	4	4	1	2	0	4	2	3	3	0	1	0	4	2	0	2	4	1	4	0	3		
	6	6	9	2	8	8	3	8	0	4	4	9	5	3	6	5	2	4	3	7	4	6	8		
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Glioma Malignant																									
Granular Cell Tumor Benign																							X		
Cranial Nerve, Schwannoma Malignant											X														
Peripheral Nerve					+	+					+						+								
Spinal Cord					+	+					+						+								
RESPIRATORY SYSTEM																									
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Carcinoma, Metastatic, Thyroid Gland																									
Cystic Keratinizing Epithelioma																									
Fibrous Histiocytoma, Metastatic, Skin																					X				
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Zymbal's Gland																							+		
Carcinoma																							X		
URINARY SYSTEM																									

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10472 - 03
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 Route: RESPIRATORY EXPOSURE WHOLE BODY
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 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

DAY ON TEST	ANIMAL ID																								females (cont...)	
	0005	0035	0048	0049	0051	0055	0055	0055	0055	0055	0055	0056	0066	0066	0066	0066	0066	0066	0066	0066	0066	0067	0073	0074		0074
HARLAN SPRAGUE DAWLEY RATS FEMALE 100 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	2	3	4	4	1	2	0	0	4	2	3	3	0	1	0	4	2	0	2	2	4	1	4	0	3	
	6	6	9	2	8	8	3	8	0	4	4	9	5	3	6	5	2	4	3	7	7	6	8	2	8	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SYSTEMIC LESIONS																										
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
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 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 100 ppm	DAY ON TEST																								* TOTALS
	0674	0691	0692	0708	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	
ANIMAL ID	00341	00337	00332	00305	00301	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	7	9	9	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	1	2	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	0	3	1	0	1	1	1	1	2	3	3	3	4	5	0	1	1	1	2	2	2	3	4	
	1	7	2	5	1	0	1	1	7	9	1	5	7	4	0	9	2	4	9	0	1	5	3	6	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cholangiocarcinoma									X												X				2
Hepatocellular Adenoma																									2
Mesentery																									1
Schwannoma Malignant, Metastatic, Skeletal Muscle																									1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Acinus, Adenoma																							X		1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS FEMALE																								* TOTALS
	0674	0691	0692	0708	0703	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	0701	
ANIMAL ID	0034	0037	0032	0005	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

Tooth 1

CARDIOVASCULAR SYSTEM

Blood Vessel	+																								50
Heart	+																								50

ENDOCRINE SYSTEM

Adrenal Cortex	+																								50
Adenoma																									1
Capsule, Schwannoma Malignant, Metastatic, Skeletal Muscle																									1
Adrenal Medulla	+																								50
Pheochromocytoma Benign	X																								3
Pheochromocytoma Malignant																									1
Islets, Pancreatic	+																								50
Adenoma																									1
Parathyroid Gland	+																								44
Pituitary Gland	+																								50
Pars Distalis, Adenoma	X																								14
Thyroid Gland	+																								50
C-cell, Adenoma																									8
C-cell, Carcinoma																									2
Follicular Cell, Adenoma																									1

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 100 ppm	DAY ON TEST																								* TOTALS
	064	061	062	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	
ANIMAL ID	00341	00307	00302	00305	00301	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Schwannoma Malignant, Metastatic, Skeletal Muscle																									1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	48
Thymoma Benign							X																		1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma		X				X																			3
Adenocarcinoma, Multiple															X										1
Adenoma				X				X														X			4
Fibroadenoma								X		X	X					X		X	X	X					20
Fibroadenoma, Multiple	X								X				X	X									X		8
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Subcutaneous Tissue, Fibroma																									1
Subcutaneous Tissue, Fibrous Histiocytoma																									1
Subcutaneous Tissue, Lipoma		X																							1
Subcutaneous Tissue, Schwannoma Malignant											X														1

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																									6
Schwannoma Malignant																									1

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 100 ppm	DAY ON TEST																									* TOTALS	
	064	061	062	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067	067		
ANIMAL ID	00341	00307	00302	00305	00301	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300	00300		
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Glioma Malignant																										1	
Granular Cell Tumor Benign																										1	
Cranial Nerve, Schwannoma Malignant																										1	
Peripheral Nerve																										4	
Spinal Cord																										4	
RESPIRATORY SYSTEM																											
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Carcinoma, Metastatic, Thyroid Gland																										1	
Cystic Keratinizing Epithelioma																										1	
Fibrous Histiocytoma, Metastatic, Skin																										1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Zymbal's Gland																										1	
Carcinoma																										1	
URINARY SYSTEM																											

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS FEMALE																								ANIMAL ID	females (cont...)
	035	047	048	049	048	053	051	055	056	054	054	055	062	066	066	066	066	066	068	068	072	072	077	077		
300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	005349	

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

ENDOCRINE SYSTEM

Adrenal Cortex Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland C-cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM

NONE																								
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST																								females (cont...)
	035	047	048	049	057	058	059	059	059	064	064	064	066	066	066	066	066	066	067	067	067	067			
ANIMAL ID	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074			
Adenoma																									
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Granulosa-Theca Tumor Benign																									
Yolk Sac Carcinoma																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Polyp Stromal									X													X			
Polyp Stromal, Multiple															X					X					
Sarcoma Stromal																									
Yolk Sac Carcinoma, Metastatic, Ovary																									
Vagina	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+			
Paraganglioma																									
Schwannoma Malignant																				X					

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node	+								+											+	+			
Lymph Node, Bronchial	+	M	M	M	M	M	M	+	M	+	M	+	M	M	M	M	+	+	+	+	M	+	M	M
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Yolk Sac Carcinoma, Metastatic, Ovary																								

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST																				ANIMAL ID	females (cont...)			
	035	047	048	049	048	052	055	055	055	056	058	058	060	062	066	066	066	066	068	068			070	070	071
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	7	2	4	5	6	8	9	0	0	4	4	4	5	6	6	6	9	0	0	1	1
	9	7	8	9	8	3	1	8	4	4	0	2	5	0	2	3	4	5	6	8	2	2	2	4	7
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	3	4	0	2	4	2	2	0	3	1	2	1	3	4	0	3	0	1	3	1	1	0	2	0	3
	9	5	9	1	4	4	0	2	1	5	8	7	2	4	4	5	1	8	7	3	7	6	1	2	2

Thymus +

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma										X										X					
Fibroadenoma	X			X	X			X			X			X			X				X				X
Fibroadenoma, Multiple														X				X	X	X			X		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Subcutaneous Tissue, Hibernoma														X											
Subcutaneous Tissue, Schwannoma Malignant																									

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve																									
Spinal Cord																									

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST																								* TOTALS			
	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731				
ANIMAL ID	0058	0052	0059	0058	0053	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055			
Adenoma																									X	1		
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granulosa-Theca Tumor Benign																										X	1	
Yolk Sac Carcinoma																										X	1	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Polyp Stromal	X	X	X	X		X		X																		X	12	
Polyp Stromal, Multiple																										X	4	
Sarcoma Stromal																										X	1	
Yolk Sac Carcinoma, Metastatic, Ovary																										X	1	
Vagina	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Paraganglioma																										X	1	
Schwannoma Malignant																											1	
HEMATOPOIETIC SYSTEM																												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node																												5
Lymph Node, Bronchial	+	M	M	+	M	+	M	M	+	M	M	M	+	M	+	M	M	+	+	+	M	+	+	M	+		22	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Yolk Sac Carcinoma, Metastatic, Ovary																										X	1	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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Experiment Number: 10472 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

p-Chloro-a,a,a-trifluorotoluene
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016
 Time Report Requested: 11:15:09
 First Dose M/F: 01/17/11 / 01/17/11
 Lab: BNW

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST		ANIMAL ID																				* TOTALS			
	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1		0 7 3 1		
Thymus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Adenocarcinoma																								3		
Fibroadenoma	X	X		X			X	X		X	X		X			X	X			X				20		
Fibroadenoma, Multiple			X		X						X				X						X	X		11		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Subcutaneous Tissue, Hibernoma																								1		
Subcutaneous Tissue, Schwannoma Malignant														X										1		
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Skeletal Muscle																								1		
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Peripheral Nerve																								2		
Spinal Cord																								1		
RESPIRATORY SYSTEM																										
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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 + .. Tissue examined microscopically
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	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731		0731	
ANIMAL ID	0058	0052	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	0055	
Cystic Keratinizing Epithelioma																											1	
Yolk Sac Carcinoma, Metastatic, Ovary																												1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Schwannoma Malignant																											1	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Zymbal's Gland																											1	
URINARY SYSTEM																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SYSTEMIC LESIONS																												
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																											2	
Lymphoma Malignant																											1	

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HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																								* TOTALS
	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	
ANIMAL ID	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum Leiomyoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	50 1
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																									1
Hepatocellular Adenoma					X	X		X																	4
Mesentery																									2
Adenocarcinoma, Metastatic, Uterus																									1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma, Metastatic, Uterus																									1
Acinus, Adenoma													X												1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma, Metastatic, Uterus																									1

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	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731		
ANIMAL ID	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719	00719		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
ENDOCRINE SYSTEM																											
Adrenal Cortex Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1	
Adrenal Medulla Pheochromocytoma Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 6	
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1	
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	M	+	M	M	M	+	+	+	+	+	+	+	+	42		
Pituitary Gland Pars Distalis, Adenoma Pars Intermedia, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 5 2	
Thyroid Gland Bilateral, C-cell, Adenoma C-cell, Adenoma C-cell, Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3 11 1	
GENERAL BODY SYSTEM																											

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS FEMALE																								* TOTALS
	1000 ppm																								
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	1	2	2	2	3	3	3	3	3	4	4	0	1	1	1	1	2	2	3	3	3	4	4	4	4
	9	0	4	8	6	7	8	9	4	7	1	1	4	6	8	2	6	2	4	5	1	3	6	8	9

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma										X								X		X					5
Leiomyosarcoma																									1
Polyp Stromal			X				X		X						X	X						X			10
Polyp Stromal, Multiple															X										2
Schwannoma Malignant																									1
Vagina	+	M	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	M	+	+	+	+	38
Schwannoma Malignant																									1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node															+										3
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland																									1
Lymph Node, Bronchial	M	+	+	M	+	+	M	M	M	M	+	M	M	M	+	M	M	M	+	M	M	M	M	+	20
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenocarcinoma, Metastatic, Uterus																									1

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	1	2	2	2	3	3	3	3	4	4	0	1	1	1	1	2	2	3	3	3	4	4	4	4	4	
	9	0	4	8	6	7	8	9	4	7	1	1	4	6	8	2	6	4	5	1	3	6	8	9	9	

Peripheral Nerve 1
 Spinal Cord 1

RESPIRATORY SYSTEM

Larynx + 50
 Lung + 50
 Adenocarcinoma, Metastatic, Uterus 1
 Carcinoma, Metastatic, Thyroid Gland 1
 Nose + 50
 Trachea + 50

SPECIAL SENSES SYSTEM

Eye + 50
 Harderian Gland + 50
 Zymbal's Gland 2
 Carcinoma 1

URINARY SYSTEM

Kidney + 50
 Renal Tubule, Adenoma X 1
 Urinary Bladder + 50

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