

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

F1_RE

NTP Study Number: C20523
Lock Date: 06/04/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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HISTORICAL CONTROL STUDIES
From June 2013 report

SAME ROUTE

20515-03 -- Metal working fluids (CIMSTAR 3800) (INHALATION AIR)

ALL ROUTES

20203-03 -- Green tea extract (GAVAGE WATER)

20515-03 -- Metal working fluids (CIMSTAR 3800) (INHALATION AIR)

20320-03 -- Tetrabromobisphenol A (GAVAGE CORN OIL)

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex
Adrenal Medulla
Islets, Pancreatic
Lung
Ovary
Pituitary Gland
Testes
Thymus
Thyroid Gland

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)

MALE RATS

Organ

Adrenal Cortex
Islets, Pancreatic

Lung

Skeletal Muscle
Thyroid Gland: Follicular Cell

All Organs

Morphology

Carcinoma
Adenoma
Carcinoma or Adenoma
Alveolar/Bronchiolar Carcinoma
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma
Hemangiosarcoma
Adenoma
Carcinoma or Adenoma
Hemangiosarcoma
Malignant Tumors

FEMALE RATS

Organ

Adrenal Cortex
Lung

Mammary Gland
Ovary
Pituitary Gland: Pars Distalis or Unspecified Site
Skin
Uterus

All Organs

Morphology

Adenoma
Alveolar/Bronchiolar Adenoma
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma
Fibroadenoma
Tubulostromal Adenoma
Adenoma
Schwannoma Malignant
Polyp Stromal
Sarcoma Stromal or Polyp Stromal
Benign Tumors
Malignant and Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/36 (3%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	2/50 (4%)			
HC TUMORS ALL ROUTES	3/150 (2%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	2/41.60
POLY-3 PERCENT (g)	0%	0%	0%	4.8%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.036*	(e)	(e)	P=0.221
POLY 1.5	P=0.038*	(e)	(e)	P=0.227
POLY 6	P=0.035*	(e)	(e)	P=0.217
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.035*	(e)	(e)	P=0.076
HISTCONT SAME RTE	P=0.187	(e)	(e)	P=0.472
HISTCONT ALL RTES	P=0.067	(e)	(e)	P=0.132
CURR VS HC SAME RTE	P=0.216			
CURR VS HC ALL RTES	P=0.347			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/44.72	2/47.08	1/40.94	0/40.60
POLY-3 PERCENT (g)	0%	4.3%	2.4%	0%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	1/32 (3%)	0/33 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
HC TUMORS SAME ROUTE	4/50 (8%)			
HC TUMORS ALL ROUTES	5/149 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.404N	P=0.249	P=0.482	(e)
POLY 1.5	P=0.397N	P=0.244	P=0.486	(e)
POLY 6	P=0.410N	P=0.255	P=0.480	(e)
COCH-ARM / FISHERS	P=0.385N	P=0.247	P=0.495	(e)
MAX-ISO-POLY-3	P=0.353	P=0.087	P=0.157	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	P=1.000	P=1.000	P=1.000	(e)
CURR VS HC SAME RTE	P=0.022*			
CURR VS HC ALL RTEs	P=0.268			

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/49 (2%)	1/49 (2%)
POLY-3 RATE (b)	0/44.72	2/47.08	1/40.94	1/40.60
POLY-3 PERCENT (g)	0%	4.3%	2.4%	2.5%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	1/32 (3%)	1/33 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	4/50 (8%)			
HC TUMORS ALL ROUTES	5/149 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.589	P=0.249	P=0.482	P=0.481
POLY 1.5	P=0.601	P=0.244	P=0.486	P=0.486
POLY 6	P=0.579	P=0.255	P=0.480	P=0.476
COCH-ARM / FISHERS	P=0.621	P=0.247	P=0.495	P=0.495
MAX-ISO-POLY-3	P=0.298	P=0.087	P=0.157	P=0.157
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.022*			
CURR VS HC ALL RTEs	P=0.268			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	5/45.11	1/47.14	0/41.94	1/42.19
POLY-3 PERCENT (g)	11.1%	2.1%	0%	2.4%
TERMINAL (d)	3/36 (8%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	662	715	---	540
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.172N	P=0.092N	P=0.037N*	P=0.117N
POLY 1.5	P=0.166N	P=0.096N	P=0.035N*	P=0.112N
POLY 6	P=0.179N	P=0.087N	P=0.039N*	P=0.122N
COCH-ARM / FISHERS	P=0.160N	P=0.102N	P=0.028N*	P=0.102N
MAX-ISO-POLY-3	P=0.017N*	P=0.042N*	P=0.015N*	P=0.059N
HISTCONT SAME RTE	P=0.176	P=1.000	(e)	P=0.491
HISTCONT ALL RTES	P=0.269	P=1.000	P=1.000	P=0.496
CURR VS HC SAME RTE	P=0.015*			
CURR VS HC ALL RTES	P=0.004**			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	5/50 (10%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	5/45.11	1/47.14	0/41.94	2/42.19
POLY-3 PERCENT (g)	11.1%	2.1%	0%	4.7%
TERMINAL (d)	3/36 (8%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	662	715	---	540
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.394N	P=0.092N	P=0.037N*	P=0.244N
POLY 1.5	P=0.383N	P=0.096N	P=0.035N*	P=0.234N
POLY 6	P=0.406N	P=0.087N	P=0.039N*	P=0.253N
COCH-ARM / FISHERS	P=0.370N	P=0.102N	P=0.028N*	P=0.218N
MAX-ISO-POLY-3	P=0.044N*	P=0.042N*	P=0.015N*	P=0.146N
HISTCONT SAME RTE	P=0.118	P=1.000	(e)	P=0.304
HISTCONT ALL RTES	P=0.081	P=1.000	P=1.000	P=0.138
CURR VS HC SAME RTE	P=0.015*			
CURR VS HC ALL RTES	P=0.004**			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	2/41.60
POLY-3 PERCENT (g)	0%	0%	0%	4.8%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.036*	(e)	(e)	P=0.221
POLY 1.5	P=0.038*	(e)	(e)	P=0.227
POLY 6	P=0.035*	(e)	(e)	P=0.217
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.035*	(e)	(e)	P=0.076
HISTCONT SAME RTE	P=0.136	(e)	(e)	P=0.303
HISTCONT ALL RTES	P=0.040*	(e)	(e)	P=0.078
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	3/41.60
POLY-3 PERCENT (g)	0%	0%	0%	7.2%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	3/34 (9%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.007**	(e)	(e)	P=0.106
POLY 1.5	P=0.007**	(e)	(e)	P=0.110
POLY 6	P=0.006**	(e)	(e)	P=0.102
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	P=0.038*
HISTCONT SAME RTE	P=0.157	(e)	(e)	P=0.299
HISTCONT ALL RTES	P=0.050*	(e)	(e)	P=0.065
CURR VS HC SAME RTE	P=0.236			
CURR VS HC ALL RTES	P=0.339			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	14/50 (28%)	13/50 (26%)	15/50 (30%)	16/50 (32%)
POLY-3 RATE (b)	14/47.36	13/47.68	15/45.46	16/47.01
POLY-3 PERCENT (g)	29.6%	27.3%	33%	34%
TERMINAL (d)	7/36 (19%)	9/39 (23%)	6/33 (18%)	7/34 (21%)
FIRST INCIDENCE	421	684	452	367
HC TUMORS SAME ROUTE	16/49 (33%)			
HC TUMORS ALL ROUTES	54/149 (36%)			
STATISTICAL TESTS				
POLY 3	P=0.310	P=0.492N	P=0.447	P=0.403
POLY 1.5	P=0.315	P=0.499N	P=0.451	P=0.405
POLY 6	P=0.306	P=0.479N	P=0.456	P=0.406
COCH-ARM / FISHERS	P=0.322	P=0.500N	P=0.500	P=0.414
MAX-ISO-POLY-3	P=0.447	P=0.401N	P=0.363	P=0.321
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.558			
CURR VS HC ALL RTES	P=0.187			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Intermedia Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/44.72	1/47.08	2/41.94	0/41.60
POLY-3 PERCENT (g)	2.2%	2.1%	4.8%	0%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	2/33 (6%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
HC TUMORS SAME ROUTE	2/49 (4%)			
HC TUMORS ALL ROUTES	5/149 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.359N	P=0.749N	P=0.478	P=0.514N
POLY 1.5	P=0.347N	P=0.754N	P=0.483	P=0.509N
POLY 6	P=0.370N	P=0.743N	P=0.474	P=0.519N
COCH-ARM / FISHERS	P=0.327N	P=0.753N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.305N	P=0.485N	P=0.268	P=0.176N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.536			
CURR VS HC ALL RTES	P=0.573			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skeletal Muscle Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	2/42.19
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	---	---	---	540
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.037*	(e)	(e)	P=0.224
POLY 1.5	P=0.038*	(e)	(e)	P=0.229
POLY 6	P=0.036*	(e)	(e)	P=0.221
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.035*	(e)	(e)	P=0.076
HISTCONT SAME RTE	P=0.134	(e)	(e)	P=0.304
HISTCONT ALL RTES	P=0.039*	(e)	(e)	P=0.078
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.72	3/47.99	0/41.94	1/41.60
POLY-3 PERCENT (g)	2.2%	6.3%	0%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	323	---	729 (T)
HC TUMORS SAME ROUTE	2/50 (4%)			
HC TUMORS ALL ROUTES	15/150 (10%)			
STATISTICAL TESTS				
POLY 3	P=0.462N	P=0.331	P=0.513N	P=0.744
POLY 1.5	P=0.456N	P=0.321	P=0.510N	P=0.750
POLY 6	P=0.467N	P=0.342	P=0.515N	P=0.740
COCH-ARM / FISHERS	P=0.448N	P=0.309	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.330N	P=0.181	P=0.174N	P=0.479
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.567			
CURR VS HC ALL RTES	P=0.088			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	1/47.60	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	571	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	4/150 (3%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	2/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	4.3%	0%	0%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	2/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.387N	P=0.249	(e)	(e)
POLY 1.5	P=0.387N	P=0.244	(e)	(e)
POLY 6	P=0.387N	P=0.255	(e)	(e)
COCH-ARM / FISHERS	P=0.387N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.293N	P=0.087	(e)	(e)
HISTCONT SAME RTE	P=0.502	P=0.315	(e)	(e)
HISTCONT ALL RTES	P=1.000	P=0.224	(e)	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.268			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.72	3/47.99	0/41.94	1/41.60
POLY-3 PERCENT (g)	2.2%	6.3%	0%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	323	---	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	10/150 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.462N	P=0.331	P=0.513N	P=0.744
POLY 1.5	P=0.456N	P=0.321	P=0.510N	P=0.750
POLY 6	P=0.467N	P=0.342	P=0.515N	P=0.740
COCH-ARM / FISHERS	P=0.448N	P=0.309	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.330N	P=0.181	P=0.174N	P=0.479
HISTCONT SAME RTE	P=0.652	P=0.326	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.827			
CURR VS HC ALL RTES	P=0.227			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/44.72	3/47.99	0/41.94	1/41.60
POLY-3 PERCENT (g)	2.2%	6.3%	0%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	323	---	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	9/150 (6%)			
STATISTICAL TESTS				
POLY 3	P=0.462N	P=0.331	P=0.513N	P=0.744
POLY 1.5	P=0.456N	P=0.321	P=0.510N	P=0.750
POLY 6	P=0.467N	P=0.342	P=0.515N	P=0.740
COCH-ARM / FISHERS	P=0.448N	P=0.309	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.330N	P=0.181	P=0.174N	P=0.479
HISTCONT SAME RTE	P=0.652	P=0.326	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.827			
CURR VS HC ALL RTES	P=0.281			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	1/47.08	2/41.94	1/41.60
POLY-3 PERCENT (g)	0%	2.1%	4.8%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	2/33 (6%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	2/50 (4%)			
HC TUMORS ALL ROUTES	4/150 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.479	P=0.510	P=0.223	P=0.486
POLY 1.5	P=0.495	P=0.506	P=0.226	P=0.491
POLY 6	P=0.466	P=0.516	P=0.220	P=0.481
COCH-ARM / FISHERS	P=0.522	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.234	P=0.172	P=0.076	P=0.158
HISTCONT SAME RTE	P=0.683	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.616	P=1.000	P=0.492	P=1.000
CURR VS HC SAME RTE	P=0.097			
CURR VS HC ALL RTES	P=0.208			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus				
Thymoma Benign				
TUMOR RATES				
OVERALL (a)	3/48 (6%)	3/49 (6%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	3/43.33	3/47.47	4/42.17	1/41.60
POLY-3 PERCENT (g)	6.9%	6.3%	9.5%	2.4%
TERMINAL (d)	2/34 (6%)	2/39 (5%)	3/33 (9%)	1/34 (3%)
FIRST INCIDENCE	535	589	666	729 (T)
HC TUMORS SAME ROUTE	1/40 (3%)			
HC TUMORS ALL ROUTES	4/138 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.252N	P=0.619N	P=0.485	P=0.320N
POLY 1.5	P=0.233N	P=0.632N	P=0.494	P=0.309N
POLY 6	P=0.270N	P=0.605N	P=0.480	P=0.329N
COCH-ARM / FISHERS	P=0.203N	P=0.651N	P=0.523	P=0.293N
MAX-ISO-POLY-3	P=0.288N	P=0.455N	P=0.337	P=0.172N
HISTCONT SAME RTE	P=0.413	P=0.381	P=0.270	P=1.000
HISTCONT ALL RTES	P=0.365	P=0.184	P=0.069	P=1.000
CURR VS HC SAME RTE	P=0.445			
CURR VS HC ALL RTES	P=0.285			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	5/50 (10%)	2/50 (4%)	7/50 (14%)
POLY-3 RATE (b)	3/44.72	5/47.08	2/41.94	7/42.92
POLY-3 PERCENT (g)	6.7%	10.6%	4.8%	16.3%
TERMINAL (d)	3/36 (8%)	5/39 (13%)	2/33 (6%)	4/34 (12%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	409
HC TUMORS SAME ROUTE	7/50 (14%)			
HC TUMORS ALL ROUTES	16/150 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.105	P=0.385	P=0.529N	P=0.140
POLY 1.5	P=0.111	P=0.372	P=0.523N	P=0.146
POLY 6	P=0.100	P=0.400	P=0.534N	P=0.137
COCH-ARM / FISHERS	P=0.123	P=0.357	P=0.500N	P=0.159
MAX-ISO-POLY-3	P=0.110	P=0.260	P=0.354N	P=0.082
HISTCONT SAME RTE	P=0.370	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	P=0.237	P=1.000	P=1.000	P=0.240
CURR VS HC SAME RTE	P=0.176			
CURR VS HC ALL RTEs	P=0.255			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicular Cell Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	1/47.08	3/41.94	1/41.60
POLY-3 PERCENT (g)	0%	2.1%	7.2%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	3/33 (9%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	4/150 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.489	P=0.510	P=0.107	P=0.486
POLY 1.5	P=0.508	P=0.506	P=0.110	P=0.491
POLY 6	P=0.473	P=0.516	P=0.105	P=0.481
COCH-ARM / FISHERS	P=0.541	P=0.500	P=0.121	P=0.500
MAX-ISO-POLY-3	P=0.163	P=0.172	P=0.038*	P=0.158
HISTCONT SAME RTE	P=0.382	P=1.000	P=0.302	P=1.000
HISTCONT ALL RTES	P=0.503	P=1.000	P=0.244	P=1.000
CURR VS HC SAME RTE	P=0.218			
CURR VS HC ALL RTES	P=0.276			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicular Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	1/47.08	1/42.50	0/41.60
POLY-3 PERCENT (g)	0%	2.1%	2.4%	0%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	729 (T)	551	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTEs	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicular Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	2/47.08	4/42.50	1/41.60
POLY-3 PERCENT (g)	0%	4.3%	9.4%	2.4%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	3/33 (9%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	551	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	4/150 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.595	P=0.249	P=0.054	P=0.486
POLY 1.5	P=0.615	P=0.244	P=0.055	P=0.491
POLY 6	P=0.577	P=0.255	P=0.053	P=0.481
COCH-ARM / FISHERS	P=0.619N	P=0.247	P=0.059	P=0.500
MAX-ISO-POLY-3	P=0.142	P=0.087	P=0.019*	P=0.158
HISTCONT SAME RTE	P=0.369	P=1.000	P=0.251	P=1.000
HISTCONT ALL RTEs	P=0.435	P=1.000	P=0.128	P=1.000
CURR VS HC SAME RTE	P=0.218			
CURR VS HC ALL RTEs	P=0.276			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/44.72	2/47.08	1/41.94	3/42.94
POLY-3 PERCENT (g)	0%	4.3%	2.4%	7%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	459
HC TUMORS SAME ROUTE	3/50 (6%)			
HC TUMORS ALL ROUTES	6/150 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.122	P=0.249	P=0.487	P=0.111
POLY 1.5	P=0.126	P=0.244	P=0.490	P=0.114
POLY 6	P=0.119	P=0.255	P=0.485	P=0.110
COCH-ARM / FISHERS	P=0.133	P=0.247	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.063	P=0.087	P=0.158	P=0.038*
HISTCONT SAME RTE	P=0.344	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.363	P=1.000	P=1.000	P=0.409
CURR VS HC SAME RTE	P=0.056			
CURR VS HC ALL RTES	P=0.168			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/45.09	2/47.08	1/41.94	3/42.94
POLY-3 PERCENT (g)	2.2%	4.3%	2.4%	7%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	626	729 (T)	729 (T)	459
HC TUMORS SAME ROUTE	3/50 (6%)			
HC TUMORS ALL ROUTES	7/150 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.227	P=0.515	P=0.744	P=0.288
POLY 1.5	P=0.234	P=0.508	P=0.748	P=0.294
POLY 6	P=0.220	P=0.522	P=0.741	P=0.283
COCH-ARM / FISHERS	P=0.246	P=0.500	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.217	P=0.297	P=0.479	P=0.147
HISTCONT SAME RTE	P=0.344	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.476	P=1.000	P=1.000	P=0.497
CURR VS HC SAME RTE	P=0.309			
CURR VS HC ALL RTES	P=0.461			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	1/42.35
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	459
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.72	1/47.08	1/42.17	1/41.60
POLY-3 PERCENT (g)	4.5%	2.1%	2.4%	2.4%
TERMINAL (d)	2/36 (6%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	666	729 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	3/150 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.527N	P=0.482N	P=0.520N	P=0.525N
POLY 1.5	P=0.516N	P=0.490N	P=0.516N	P=0.516N
POLY 6	P=0.538N	P=0.473N	P=0.523N	P=0.532N
COCH-ARM / FISHERS	P=0.499N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.454N	P=0.271N	P=0.303N	P=0.308N
HISTCONT SAME RTE	P=0.243	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.743	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.626			
CURR VS HC ALL RTES	P=0.527			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	24/50 (48%)	25/50 (50%)	23/50 (46%)	27/50 (54%)
POLY-3 RATE (b)	24/48.34	25/49.33	23/46.41	27/47.15
POLY-3 PERCENT (g)	49.7%	50.7%	49.6%	57.3%
TERMINAL (d)	15/36 (42%)	17/39 (44%)	13/33 (39%)	17/34 (50%)
FIRST INCIDENCE	421	323	270	367
HC TUMORS SAME ROUTE	32/50 (64%)			
HC TUMORS ALL ROUTES	88/150 (59%)			
STATISTICAL TESTS				
POLY 3	P=0.243	P=0.540	P=0.578N	P=0.293
POLY 1.5	P=0.267	P=0.523	P=0.564N	P=0.311
POLY 6	P=0.224	P=0.563	P=0.582	P=0.282
COCH-ARM / FISHERS	P=0.307	P=0.500	P=0.500N	P=0.345
MAX-ISO-POLY-3	P=0.375	P=0.459	P=0.496N	P=0.230
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.073			
CURR VS HC ALL RTES	P=0.077			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	6/50 (12%)	3/50 (6%)	10/50 (20%)
POLY-3 RATE (b)	4/45.67	6/48.51	3/42.59	10/43.69
POLY-3 PERCENT (g)	8.8%	12.4%	7%	22.9%
TERMINAL (d)	2/36 (6%)	4/39 (10%)	1/33 (3%)	7/34 (21%)
FIRST INCIDENCE	421	323	551	459
HC TUMORS SAME ROUTE	13/50 (26%)			
HC TUMORS ALL ROUTES	33/150 (22%)			
STATISTICAL TESTS				
POLY 3	P=0.029*	P=0.408	P=0.538N	P=0.059
POLY 1.5	P=0.032*	P=0.393	P=0.530N	P=0.063
POLY 6	P=0.026*	P=0.426	P=0.543N	P=0.056
COCH-ARM / FISHERS	P=0.040*	P=0.370	P=0.500N	P=0.074
MAX-ISO-POLY-3	P=0.040*	P=0.292	P=0.386N	P=0.034*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.015*			
CURR VS HC ALL RTES	P=0.020*			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	26/50 (52%)	27/50 (54%)	24/50 (48%)	31/50 (62%)
POLY-3 RATE (b)	26/48.34	27/49.85	24/46.98	31/48.65
POLY-3 PERCENT (g)	53.8%	54.2%	51.1%	63.7%
TERMINAL (d)	17/36 (47%)	18/39 (46%)	13/33 (39%)	19/34 (56%)
FIRST INCIDENCE	421	323	270	367
HC TUMORS SAME ROUTE	37/50 (74%)			
HC TUMORS ALL ROUTES	107/150 (71%)			
STATISTICAL TESTS				
POLY 3	P=0.149	P=0.566	P=0.476N	P=0.214
POLY 1.5	P=0.155	P=0.538	P=0.472N	P=0.212
POLY 6	P=0.142	P=0.560N	P=0.469N	P=0.217
COCH-ARM / FISHERS	P=0.160	P=0.500	P=0.421N	P=0.210
MAX-ISO-POLY-3	P=0.236	P=0.485	P=0.395N	P=0.159
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.024*			
CURR VS HC ALL RTES	P=0.008**			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	2/43.95
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	---	---	---	731 (T)
HC TUMORS SAME ROUTE	2/50 (4%)			
HC TUMORS ALL ROUTES	3/150 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.043*	(e)	(e)	P=0.248
POLY 1.5	P=0.043*	(e)	(e)	P=0.244
POLY 6	P=0.043*	(e)	(e)	P=0.252
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	P=0.086
HISTCONT SAME RTE	P=0.332	(e)	(e)	P=1.000
HISTCONT ALL RTEs	P=0.196	(e)	(e)	P=0.363
CURR VS HC SAME RTE	P=0.186			
CURR VS HC ALL RTEs	P=0.289			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/42.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/49 (2%)			
HC TUMORS ALL ROUTES	4/148 (3%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.41	1/43.21
POLY-3 PERCENT (g)	0%	0%	2.3%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	674	661
HC TUMORS SAME ROUTE	2/49 (4%)			
HC TUMORS ALL ROUTES	5/148 (3%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	1/44.21
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	661
HC TUMORS SAME ROUTE	1/49 (2%)			
HC TUMORS ALL ROUTES	1/149 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	1/44.21
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	661
HC TUMORS SAME ROUTE	1/49 (2%)			
HC TUMORS ALL ROUTES	1/149 (1%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.19	3/43.95
POLY-3 PERCENT (g)	0%	0%	2.3%	6.8%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	3/30 (10%)
FIRST INCIDENCE	---	---	731 (T)	731 (T)
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.024*	(e)	P=0.511	P=0.127
POLY 1.5	P=0.023*	(e)	P=0.507	P=0.124
POLY 6	P=0.024*	(e)	P=0.514	P=0.130
COCH-ARM / FISHERS	P=0.022*	(e)	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.032*	(e)	P=0.172	P=0.045*
HISTCONT SAME RTE	P=0.106	(e)	P=0.494	P=0.251
HISTCONT ALL RTES	P=0.023*	(e)	P=0.242	P=0.047*
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.19	3/43.95
POLY-3 PERCENT (g)	0%	0%	2.3%	6.8%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	3/30 (10%)
FIRST INCIDENCE	---	---	731 (T)	731 (T)
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.024*	(e)	P=0.511	P=0.127
POLY 1.5	P=0.023*	(e)	P=0.507	P=0.124
POLY 6	P=0.024*	(e)	P=0.514	P=0.130
COCH-ARM / FISHERS	P=0.022*	(e)	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.032*	(e)	P=0.172	P=0.045*
HISTCONT SAME RTE	P=0.106	(e)	P=0.494	P=0.251
HISTCONT ALL RTEs	P=0.023*	(e)	P=0.242	P=0.047*
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTEs	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	4/43.17	1/42.23	2/44.56	1/44.41
POLY-3 PERCENT (g)	9.3%	2.4%	4.5%	2.3%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	535	731 (T)	626	593
HC TUMORS SAME ROUTE	2/50 (4%)			
HC TUMORS ALL ROUTES	8/150 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.231N	P=0.185N	P=0.322N	P=0.170N
POLY 1.5	P=0.233N	P=0.186N	P=0.327N	P=0.173N
POLY 6	P=0.230N	P=0.182N	P=0.319N	P=0.167N
COCH-ARM / FISHERS	P=0.244N	P=0.181N	P=0.339N	P=0.181N
MAX-ISO-POLY-3	P=0.097N	P=0.090N	P=0.192N	P=0.081N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.388			
CURR VS HC ALL RTEs	P=0.478			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	5/50 (10%)	6/50 (12%)
POLY-3 RATE (b)	4/42.03	4/42.25	5/44.75	6/44.71
POLY-3 PERCENT (g)	9.5%	9.5%	11.2%	13.4%
TERMINAL (d)	3/30 (10%)	3/33 (9%)	3/33 (9%)	2/30 (7%)
FIRST INCIDENCE	702	725	626	593
HC TUMORS SAME ROUTE	4/50 (8%)			
HC TUMORS ALL ROUTES	11/150 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.326	P=0.641N	P=0.539	P=0.408
POLY 1.5	P=0.314	P=0.639	P=0.524	P=0.393
POLY 6	P=0.339	P=0.628N	P=0.556	P=0.428
COCH-ARM / FISHERS	P=0.288	P=0.643N	P=0.500	P=0.370
MAX-ISO-POLY-3	P=0.460	P=0.496N	P=0.401	P=0.292
HISTCONT SAME RTE	P=0.093	P=1.000	P=0.485	P=0.305
HISTCONT ALL RTES	P=0.281	P=1.000	P=0.402	P=0.252
CURR VS HC SAME RTE	P=0.879			
CURR VS HC ALL RTES	P=0.867			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	4/50 (8%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	8/43.29	4/42.25	6/44.75	6/44.71
POLY-3 PERCENT (g)	18.5%	9.5%	13.4%	13.4%
TERMINAL (d)	4/30 (13%)	3/33 (9%)	4/33 (12%)	2/30 (7%)
FIRST INCIDENCE	535	725	626	593
HC TUMORS SAME ROUTE	6/50 (12%)			
HC TUMORS ALL ROUTES	18/150 (12%)			
STATISTICAL TESTS				
POLY 3	P=0.499N	P=0.186N	P=0.360N	P=0.361N
POLY 1.5	P=0.508N	P=0.188N	P=0.369N	P=0.371N
POLY 6	P=0.493N	P=0.182N	P=0.353N	P=0.351N
COCH-ARM / FISHERS	P=0.534N	P=0.178N	P=0.387N	P=0.387N
MAX-ISO-POLY-3	P=0.321N	P=0.117N	P=0.261N	P=0.262N
HISTCONT SAME RTE	P=0.369	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.504			
CURR VS HC ALL RTES	P=0.467			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	9/50 (18%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	2/41.92	9/43.68	7/44.93	5/44.82
POLY-3 PERCENT (g)	4.8%	20.6%	15.6%	11.2%
TERMINAL (d)	2/30 (7%)	6/33 (18%)	5/33 (15%)	2/30 (7%)
FIRST INCIDENCE	731 (T)	354	604	572
HC TUMORS SAME ROUTE	9/50 (18%)			
HC TUMORS ALL ROUTES	28/150 (19%)			
STATISTICAL TESTS				
POLY 3	P=0.515N	P=0.029*	P=0.095	P=0.243
POLY 1.5	P=0.535N	P=0.026*	P=0.089	P=0.232
POLY 6	P=0.492N	P=0.033*	P=0.103	P=0.258
COCH-ARM / FISHERS	P=0.567N	P=0.026*	P=0.080	P=0.218
MAX-ISO-POLY-3	P=0.115	P=0.014*	P=0.053	P=0.145
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.035*			
CURR VS HC ALL RTES	P=0.008**			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	10/50 (20%)	9/50 (18%)	6/50 (12%)
POLY-3 RATE (b)	6/43.17	10/43.68	9/45.31	6/45.29
POLY-3 PERCENT (g)	13.9%	22.9%	19.9%	13.3%
TERMINAL (d)	3/30 (10%)	7/33 (21%)	6/33 (18%)	2/30 (7%)
FIRST INCIDENCE	535	354	604	572
HC TUMORS SAME ROUTE	11/50 (22%)			
HC TUMORS ALL ROUTES	34/150 (23%)			
STATISTICAL TESTS				
POLY 3	P=0.303N	P=0.210	P=0.321	P=0.587N
POLY 1.5	P=0.317N	P=0.203	P=0.309	P=0.600N
POLY 6	P=0.289N	P=0.222	P=0.334	P=0.572N
COCH-ARM / FISHERS	P=0.344N	P=0.207	P=0.288	P=0.620N
MAX-ISO-POLY-3	P=0.399N	P=0.140	P=0.233	P=0.465N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.227			
CURR VS HC ALL RTES	P=0.069			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	9/50 (18%)	13/50 (26%)	12/50 (24%)	11/50 (22%)
POLY-3 RATE (b)	9/43.29	13/43.70	12/45.50	11/45.58
POLY-3 PERCENT (g)	20.8%	29.8%	26.4%	24.1%
TERMINAL (d)	5/30 (17%)	9/33 (27%)	8/33 (24%)	4/30 (13%)
FIRST INCIDENCE	535	354	604	572
HC TUMORS SAME ROUTE	13/50 (26%)			
HC TUMORS ALL ROUTES	40/150 (27%)			
STATISTICAL TESTS				
POLY 3	P=0.528N	P=0.236	P=0.356	P=0.451
POLY 1.5	P=0.548N	P=0.228	P=0.339	P=0.431
POLY 6	P=0.506N	P=0.251	P=0.374	P=0.476
COCH-ARM / FISHERS	P=0.534	P=0.235	P=0.312	P=0.402
MAX-ISO-POLY-3	P=0.428	P=0.168	P=0.273	P=0.356
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.416			
CURR VS HC ALL RTES	P=0.182			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Ovary				
Granulosa Cell Tumor Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	2/42.23	0/44.19	2/43.95
POLY-3 PERCENT (g)	0%	4.7%	0%	4.6%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	---	731 (T)	---	731 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.294	P=0.238	(e)	P=0.248
POLY 1.5	P=0.289	P=0.235	(e)	P=0.244
POLY 6	P=0.299	P=0.244	(e)	P=0.252
COCH-ARM / FISHERS	P=0.283	P=0.247	(e)	P=0.247
MAX-ISO-POLY-3	P=0.139	P=0.077	(e)	P=0.086
HISTCONT SAME RTE	P=0.373	P=0.464	(e)	P=0.484
HISTCONT ALL RTES	P=0.137	P=0.132	(e)	P=0.134
CURR VS HC SAME RTE	P=0.445			
CURR VS HC ALL RTES	P=0.473			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Ovary				
Granulosa Cell Tumor: Benign, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/41.92	3/42.23	0/44.19	2/43.95
POLY-3 PERCENT (g)	2.4%	7.1%	0%	4.6%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	731 (T)	731 (T)	---	731 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	2/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.581	P=0.307	P=0.489N	P=0.516
POLY 1.5	P=0.575	P=0.302	P=0.493N	P=0.510
POLY 6	P=0.587	P=0.317	P=0.486N	P=0.524
COCH-ARM / FISHERS	P=0.567	P=0.309	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.435N	P=0.156	P=0.158N	P=0.298
HISTCONT SAME RTE	P=0.468	P=0.299	P=1.000	P=0.484
HISTCONT ALL RTES	P=0.299	P=0.079	P=1.000	P=0.197
CURR VS HC SAME RTE	P=0.722			
CURR VS HC ALL RTES	P=0.744			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Ovary				
Tubulostromal Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	2/43.95
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	---	---	---	731 (T)
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.043*	(e)	(e)	P=0.248
POLY 1.5	P=0.043*	(e)	(e)	P=0.244
POLY 6	P=0.043*	(e)	(e)	P=0.252
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	P=0.086
HISTCONT SAME RTE	P=0.126	(e)	(e)	P=0.305
HISTCONT ALL RTES	P=0.035*	(e)	(e)	P=0.077
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	34/50 (68%)	33/50 (66%)	32/50 (64%)	24/50 (48%)
POLY-3 RATE (b)	34/47.16	33/47.33	32/47.70	24/48.25
POLY-3 PERCENT (g)	72.1%	69.7%	67.1%	49.8%
TERMINAL (d)	20/30 (67%)	20/33 (61%)	21/33 (64%)	11/30 (37%)
FIRST INCIDENCE	534	346	516	436
HC TUMORS SAME ROUTE	35/50 (70%)			
HC TUMORS ALL ROUTES	88/150 (59%)			
STATISTICAL TESTS				
POLY 3	P=0.007N**	P=0.489N	P=0.377N	P=0.018N*
POLY 1.5	P=0.008N**	P=0.516N	P=0.384N	P=0.022N*
POLY 6	P=0.006N**	P=0.450N	P=0.386N	P=0.016N*
COCH-ARM / FISHERS	P=0.015N*	P=0.500N	P=0.417N	P=0.034N*
MAX-ISO-POLY-3	P=0.011N*	P=0.397N	P=0.295N	P=0.011N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.768	P=0.298	P=0.375	P=1.000
CURR VS HC SAME RTE	P=0.947			
CURR VS HC ALL RTES	P=0.362			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Intermedia Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.35	0/42.23	1/44.19	0/43.95
POLY-3 PERCENT (g)	2.4%	0%	2.3%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	606	---	731 (T)	---
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	7/150 (5%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skeletal Muscle Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.19	2/43.97
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	---	731 (T)	725
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.096	(e)	P=0.511	P=0.248
POLY 1.5	P=0.094	(e)	P=0.507	P=0.244
POLY 6	P=0.097	(e)	P=0.514	P=0.252
COCH-ARM / FISHERS	P=0.089	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.093	(e)	P=0.172	P=0.086
HISTCONT SAME RTE	P=0.113	(e)	P=0.494	P=0.305
HISTCONT ALL RTES	P=0.040*	(e)	P=0.242	P=0.077
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	2/44.10
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	711
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	2/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.043*	(e)	(e)	P=0.248
POLY 1.5	P=0.043*	(e)	(e)	P=0.244
POLY 6	P=0.044*	(e)	(e)	P=0.254
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.044*	(e)	(e)	P=0.087
HISTCONT SAME RTE	P=0.125	(e)	(e)	P=0.306
HISTCONT ALL RTES	P=0.174	(e)	(e)	P=0.281
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.518			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.19	2/43.97
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	---	731 (T)	725
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.096	(e)	P=0.511	P=0.248
POLY 1.5	P=0.094	(e)	P=0.507	P=0.244
POLY 6	P=0.097	(e)	P=0.514	P=0.252
COCH-ARM / FISHERS	P=0.089	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.093	(e)	P=0.172	P=0.086
HISTCONT SAME RTE	P=0.113	(e)	P=0.494	P=0.305
HISTCONT ALL RTES	P=0.040*	(e)	P=0.242	P=0.077
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.19	2/43.97
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	---	731 (T)	725
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.096	(e)	P=0.511	P=0.248
POLY 1.5	P=0.094	(e)	P=0.507	P=0.244
POLY 6	P=0.097	(e)	P=0.514	P=0.252
COCH-ARM / FISHERS	P=0.089	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.093	(e)	P=0.172	P=0.086
HISTCONT SAME RTE	P=0.113	(e)	P=0.494	P=0.305
HISTCONT ALL RTES	P=0.040*	(e)	P=0.242	P=0.077
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.19	2/43.97
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	---	731 (T)	725
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.096	(e)	P=0.511	P=0.248
POLY 1.5	P=0.094	(e)	P=0.507	P=0.244
POLY 6	P=0.097	(e)	P=0.514	P=0.252
COCH-ARM / FISHERS	P=0.089	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.093	(e)	P=0.172	P=0.086
HISTCONT SAME RTE	P=0.113	(e)	P=0.494	P=0.305
HISTCONT ALL RTES	P=0.040*	(e)	P=0.242	P=0.077
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus				
Thymoma Benign				
TUMOR RATES				
OVERALL (a)	8/48 (17%)	4/49 (8%)	7/49 (14%)	10/49 (20%)
POLY-3 RATE (b)	8/40.72	4/42.12	7/43.60	10/43.99
POLY-3 PERCENT (g)	19.6%	9.5%	16.1%	22.7%
TERMINAL (d)	6/28 (21%)	4/33 (12%)	6/32 (19%)	6/29 (21%)
FIRST INCIDENCE	613	731 (T)	614	436
HC TUMORS SAME ROUTE	5/48 (10%)			
HC TUMORS ALL ROUTES	9/147 (6%)			
STATISTICAL TESTS				
POLY 3	P=0.180	P=0.157N	P=0.442N	P=0.468
POLY 1.5	P=0.175	P=0.165N	P=0.457N	P=0.449
POLY 6	P=0.183	P=0.147N	P=0.429N	P=0.486
COCH-ARM / FISHERS	P=0.157	P=0.168N	P=0.482N	P=0.416
MAX-ISO-POLY-3	P=0.266	P=0.096N	P=0.337N	P=0.367
HISTCONT SAME RTE	P=0.110	P=1.000	P=0.305	P=0.212
HISTCONT ALL RTEs	P=0.025*	P=0.409	P=0.085	P=0.037*
CURR VS HC SAME RTE	P=0.299			
CURR VS HC ALL RTEs	P=0.029*			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	7/49 (14%)	4/50 (8%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	7/41.72	4/42.23	4/44.19	6/44.45
POLY-3 PERCENT (g)	16.8%	9.5%	9.1%	13.5%
TERMINAL (d)	5/29 (17%)	4/33 (12%)	4/33 (12%)	5/30 (17%)
FIRST INCIDENCE	615	731 (T)	731 (T)	577
HC TUMORS SAME ROUTE	3/50 (6%)			
HC TUMORS ALL ROUTES	13/150 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.565	P=0.252N	P=0.227N	P=0.451N
POLY 1.5	P=0.557	P=0.257N	P=0.235N	P=0.463N
POLY 6	P=0.571	P=0.242N	P=0.221N	P=0.439N
COCH-ARM / FISHERS	P=0.532	P=0.251N	P=0.251N	P=0.484N
MAX-ISO-POLY-3	P=0.326N	P=0.161N	P=0.147N	P=0.339N
HISTCONT SAME RTE	P=0.073	P=0.417	P=0.461	P=0.250
HISTCONT ALL RTES	P=0.338	P=1.000	P=1.000	P=0.331
CURR VS HC SAME RTE	P=0.139			
CURR VS HC ALL RTES	P=0.270			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicular Cell Adenoma				
TUMOR RATES				
OVERALL (a)	0/49 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/40.92	1/42.23	2/44.39	1/43.95
POLY-3 PERCENT (g)	0%	2.4%	4.5%	2.3%
TERMINAL (d)	0/29 (0%)	1/33 (3%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	677	731 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	5/150 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.550	P=0.506	P=0.256	P=0.514
POLY 1.5	P=0.542	P=0.503	P=0.250	P=0.510
POLY 6	P=0.557	P=0.512	P=0.261	P=0.519
COCH-ARM / FISHERS	P=0.526	P=0.505	P=0.253	P=0.505
MAX-ISO-POLY-3	P=0.259	P=0.165	P=0.092	P=0.175
HISTCONT SAME RTE	P=0.373	P=1.000	P=0.490	P=1.000
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.468			
CURR VS HC ALL RTES	P=0.194			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicular Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	1/49 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.05	2/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	2.4%	4.7%	0%	0%
TERMINAL (d)	0/29 (0%)	2/33 (6%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	697	731 (T)	---	---
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.218N	P=0.510	P=0.485N	P=0.486N
POLY 1.5	P=0.220N	P=0.505	P=0.489N	P=0.490N
POLY 6	P=0.215N	P=0.519	P=0.482N	P=0.483N
COCH-ARM / FISHERS	P=0.222N	P=0.508	P=0.495N	P=0.495N
MAX-ISO-POLY-3	P=0.178N	P=0.290	P=0.157N	P=0.157N
HISTCONT SAME RTE	P=1.000	P=0.464	P=1.000	P=1.000
HISTCONT ALL RTEs	P=0.603	P=0.132	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.720			
CURR VS HC ALL RTEs	P=0.336			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicular Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	1/49 (2%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/41.05	3/42.23	2/44.39	1/43.95
POLY-3 PERCENT (g)	2.4%	7.1%	4.5%	2.3%
TERMINAL (d)	0/29 (0%)	3/33 (9%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	697	731 (T)	677	731 (T)
HC TUMORS SAME ROUTE	2/50 (4%)			
HC TUMORS ALL ROUTES	6/150 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.398N	P=0.315	P=0.527	P=0.746N
POLY 1.5	P=0.404N	P=0.310	P=0.520	P=0.750N
POLY 6	P=0.392N	P=0.324	P=0.535	P=0.741N
COCH-ARM / FISHERS	P=0.416N	P=0.316	P=0.508	P=0.747N
MAX-ISO-POLY-3	P=0.458N	P=0.163	P=0.309	P=0.480N
HISTCONT SAME RTE	P=0.723	P=0.445	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=0.338	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.684			
CURR VS HC ALL RTES	P=0.526			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/41.92	1/42.23	2/44.39	1/43.95
POLY-3 PERCENT (g)	2.4%	2.4%	4.5%	2.3%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	677	731 (T)
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.621N	P=0.759N	P=0.520	P=0.750N
POLY 1.5	P=0.625N	P=0.759	P=0.512	P=0.754N
POLY 6	P=0.618N	P=0.754N	P=0.528	P=0.746N
COCH-ARM / FISHERS	P=0.637N	P=0.753N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.613	P=0.497N	P=0.302	P=0.486N
HISTCONT SAME RTE	P=0.161	P=0.485	P=0.306	P=0.493
HISTCONT ALL RTES	P=0.106	P=0.239	P=0.077	P=0.241
CURR VS HC SAME RTE	P=0.136			
CURR VS HC ALL RTES	P=0.045*			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	1/41.92	1/42.53	4/44.35	1/44.05
POLY-3 PERCENT (g)	2.4%	2.4%	9%	2.3%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	3/33 (9%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	649	689	705
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	7/150 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.558N	P=0.758N	P=0.196	P=0.750N
POLY 1.5	P=0.565N	P=0.760	P=0.189	P=0.754N
POLY 6	P=0.554N	P=0.751N	P=0.202	P=0.745N
COCH-ARM / FISHERS	P=0.582N	P=0.753N	P=0.181	P=0.753N
MAX-ISO-POLY-3	P=0.367	P=0.495N	P=0.100	P=0.486N
HISTCONT SAME RTE	P=0.381	P=1.000	P=0.252	P=1.000
HISTCONT ALL RTES	P=0.636	P=1.000	P=0.226	P=1.000
CURR VS HC SAME RTE	P=0.731			
CURR VS HC ALL RTES	P=0.420			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	0/50 (0%)	8/50 (16%)	1/50 (2%)
POLY-3 RATE (b)	6/42.31	0/42.23	8/44.28	1/43.95
POLY-3 PERCENT (g)	14.2%	0%	18.1%	2.3%
TERMINAL (d)	5/30 (17%)	0/33 (0%)	7/33 (21%)	1/30 (3%)
FIRST INCIDENCE	618	---	708	731 (T)
HC TUMORS SAME ROUTE	5/50 (10%)			
HC TUMORS ALL ROUTES	10/150 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.130N	P=0.015N*	P=0.421	P=0.049N*
POLY 1.5	P=0.134N	P=0.016N*	P=0.409	P=0.052N
POLY 6	P=0.129N	P=0.014N*	P=0.432	P=0.047N*
COCH-ARM / FISHERS	P=0.156N	P=0.013N*	P=0.387	P=0.056N
MAX-ISO-POLY-3	P=0.039N*	P=0.004N**	P=0.316	P=0.022N*
HISTCONT SAME RTE	P=0.548	P=1.000	P=0.250	P=1.000
HISTCONT ALL RTES	P=0.474	P=1.000	P=0.052	P=1.000
CURR VS HC SAME RTE	P=0.656			
CURR VS HC ALL RTES	P=0.199			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	7/50 (14%)	0/50 (0%)	9/50 (18%)	1/50 (2%)
POLY-3 RATE (b)	7/42.41	0/42.23	9/44.44	1/43.95
POLY-3 PERCENT (g)	16.5%	0%	20.3%	2.3%
TERMINAL (d)	5/30 (17%)	0/33 (0%)	7/33 (21%)	1/30 (3%)
FIRST INCIDENCE	618	---	689	731 (T)
HC TUMORS SAME ROUTE	6/50 (12%)			
HC TUMORS ALL ROUTES	12/150 (8%)			
STATISTICAL TESTS				
POLY 3	P=0.089N	P=0.007N**	P=0.431	P=0.026N*
POLY 1.5	P=0.092N	P=0.008N**	P=0.417	P=0.027N*
POLY 6	P=0.088N	P=0.007N**	P=0.444	P=0.024N*
COCH-ARM / FISHERS	P=0.113N	P=0.006N**	P=0.393	P=0.030N*
MAX-ISO-POLY-3	P=0.019N*	P=0.002N**	P=0.330	P=0.011N*
HISTCONT SAME RTE	P=0.572	P=1.000	P=0.248	P=1.000
HISTCONT ALL RTES	P=0.514	P=1.000	P=0.058	P=1.000
CURR VS HC SAME RTE	P=0.655			
CURR VS HC ALL RTES	P=0.196			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/42.81	0/42.23	4/45.54	1/43.95
POLY-3 PERCENT (g)	4.7%	0%	8.8%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	536	---	590	731 (T)
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	1/150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.526N	P=0.240N	P=0.366	P=0.491N
POLY 1.5	P=0.529N	P=0.241N	P=0.355	P=0.494N
POLY 6	P=0.527N	P=0.237N	P=0.378	P=0.489N
COCH-ARM / FISHERS	P=0.544N	P=0.247N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.364	P=0.079N	P=0.230	P=0.275N
HISTCONT SAME RTE	P=0.279	(e)	P=0.225	P=0.493
HISTCONT ALL RTES	P=0.187	P=1.000	P=0.043*	P=1.000
CURR VS HC SAME RTE	P=0.077			
CURR VS HC ALL RTES	P=0.103			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	1/42.23	0/44.19	1/43.95
POLY-3 PERCENT (g)	0%	2.4%	0%	2.3%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	---	731 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	5/150 (3%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	1/42.23	0/44.19	1/43.95
POLY-3 PERCENT (g)	0%	2.4%	0%	2.3%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	---	731 (T)
HC TUMORS SAME ROUTE	1/50 (2%)			
HC TUMORS ALL ROUTES	5/150 (3%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.12	0/42.23	0/44.19	1/44.13
POLY-3 PERCENT (g)	4.6%	0%	0%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	352	---	---	684
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.665N	P=0.242N	P=0.232N	P=0.492N
POLY 1.5	P=0.665N	P=0.243N	P=0.234N	P=0.496N
POLY 6	P=0.667N	P=0.238N	P=0.229N	P=0.487N
COCH-ARM / FISHERS	P=0.670N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.137N	P=0.080N	P=0.076N	P=0.276N
HISTCONT SAME RTE	P=0.128	(e)	(e)	P=0.493
HISTCONT ALL RTES	P=0.036*	(e)	(e)	P=0.242
CURR VS HC SAME RTE	P=0.086			
CURR VS HC ALL RTES	P=0.010**			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/50 (0%)			
HC TUMORS ALL ROUTES	0/150 (0%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	42/50 (84%)	39/50 (78%)	40/50 (80%)	35/50 (70%)
POLY-3 RATE (b)	42/47.59	39/48.22	40/48.49	35/48.88
POLY-3 PERCENT (g)	88.3%	80.9%	82.5%	71.6%
TERMINAL (d)	27/30 (90%)	25/33 (76%)	27/33 (82%)	20/30 (67%)
FIRST INCIDENCE	534	346	516	436
HC TUMORS SAME ROUTE	42/50 (84%)			
HC TUMORS ALL ROUTES	118/150 (79%)			
STATISTICAL TESTS				
POLY 3	P=0.031N*	P=0.229N	P=0.296N	P=0.031N*
POLY 1.5	P=0.039N*	P=0.274N	P=0.325N	P=0.042N*
POLY 6	P=0.027N*	P=0.188N	P=0.282N	P=0.024N*
COCH-ARM / FISHERS	P=0.072N	P=0.306N	P=0.398N	P=0.077N
MAX-ISO-POLY-3	P=0.027N*	P=0.152N	P=0.204N	P=0.018N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.852			
CURR VS HC ALL RTES	P=0.357			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	13/50 (26%)	11/50 (22%)	15/50 (30%)	16/50 (32%)
POLY-3 RATE (b)	13/45.26	11/43.99	15/47.13	16/45.81
POLY-3 PERCENT (g)	28.7%	25%	31.8%	34.9%
TERMINAL (d)	4/30 (13%)	7/33 (21%)	7/33 (21%)	6/30 (20%)
FIRST INCIDENCE	352	104	516	593
HC TUMORS SAME ROUTE	11/50 (22%)			
HC TUMORS ALL ROUTES	37/150 (25%)			
STATISTICAL TESTS				
POLY 3	P=0.225	P=0.438N	P=0.461	P=0.340
POLY 1.5	P=0.219	P=0.431N	P=0.441	P=0.334
POLY 6	P=0.234	P=0.440N	P=0.483	P=0.350
COCH-ARM / FISHERS	P=0.207	P=0.408N	P=0.412	P=0.330
MAX-ISO-POLY-3	P=0.329	P=0.347N	P=0.374	P=0.263
HISTCONT SAME RTE	P=0.115	P=1.000	P=0.235	P=0.212
HISTCONT ALL RTES	P=0.180	P=1.000	P=0.315	P=0.187
CURR VS HC SAME RTE	P=0.614			
CURR VS HC ALL RTES	P=0.888			

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Metal working fluids (Trim VX)
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	47/50 (94%)	43/50 (86%)	44/50 (88%)	41/50 (82%)
POLY-3 RATE (b)	47/50.00	43/50.00	44/50.00	41/49.45
POLY-3 PERCENT (g)	94%	86%	88%	82.9%
TERMINAL (d)	27/30 (90%)	26/33 (79%)	27/33 (82%)	23/30 (77%)
FIRST INCIDENCE	352	104	516	436
HC TUMORS SAME ROUTE	43/50 (86%)			
HC TUMORS ALL ROUTES	126/150 (84%)			
STATISTICAL TESTS				
POLY 3	P=0.123N	P=0.159N	P=0.243N	P=0.074N
POLY 1.5	P=0.110N	P=0.159N	P=0.243N	P=0.067N
POLY 6	P=0.148N	P=0.159N	P=0.243N	P=0.087N
COCH-ARM / FISHERS	P=0.095N	P=0.159N	P=0.243N	P=0.061N
MAX-ISO-POLY-3	P=0.075N	P=0.091N	P=0.148N	P=0.039N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.317			
CURR VS HC ALL RTES	P=0.138			

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Metal working fluids (Trim VX)
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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (n) No statistics are calculated if all dose groups have fewer than two tumors.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
- ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
- N Indicates a negative trend for all tests
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***