

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
CAS Number: 75-35-4

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

F1_R2

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

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HISTORICAL CONTROL STUDIES
From May 2011 report

SAME ROUTE

20011-05 -- 1-Bromopropane (INHALATION AIR)
99017-05 -- Diethylamine (INHALATION AIR)
93025-07 -- Tetralin (INHALATION AIR)

ALL ROUTES

99024-07 -- Androstenedione (GAVAGE METHYLCELLULOSE)
99037-05 -- alpha/beta Thujone mixture (GAVAGE METHYLCELLULOSE)
99028-05 -- bis(2-Chloroethoxy)methane (SKIN ETHANOL)
20011-05 -- 1-Bromopropane (INHALATION AIR)
99027-03 -- Chromium picolinate monohydrate (ORAL FEED)
05174-05 -- Cresols (ORAL FEED)
97003-07 -- 1,2-Dibromo-2,4-dicyanobutane (SKIN ETHANOL)
99017-05 -- Diethylamine (INHALATION AIR)
99031-03 -- Ginkgo biloba extract (GAVAGE CORN OIL)
20005-05 -- Ginseng (GAVAGE WATER)
99007-05 -- Goldenseal root powder (ORAL FEED)
95011-07 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)
88105-03 -- Isoeugenol (GAVAGE CORN OIL)
20007-05 -- Kava kava extract (GAVAGE CORN OIL)
95003-05 -- Methyl trans-styryl ketone (SKIN ETHANOL)
20008-03 -- Milk thistle extract (ORAL FEED)
99023-03 -- beta-Myrcene (GAVAGE CORN OIL)
20107-03 -- N,N-Dimethyl-p-toluidine (GAVAGE CORN OIL)
20009-03 -- beta-Picoline (ORAL WATER)
99020-05 -- Pulegone (GAVAGE CORN OIL)
99032-03 -- Pyrogallol (SKIN ETHANOL)
20114-07 -- Sodium dichromate dihydrate (VI) (ORAL WATER)
93025-07 -- Tetralin (INHALATION AIR)
88133-07 -- Trimethylolpropane triacrylate (SKIN ACETONE)

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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
Clitoral/Preputial Gland
Islets, Pancreatic
Kidney
Liver
Lung
Nose
Pancreas
Pituitary Gland
Testes
Thyroid Gland
Urinary Bladder

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF VINYLIDENE CHLORIDE

MALE RATS

Organ

Adrenal Cortex
Adrenal Medulla
Clitoral/Preputial Gland
Nose
Skin

Testes
All Organs

FEMALE RATS

Organ

Adrenal Medulla

Clitoral/Preputial Gland
Pituitary Gland: Pars Distalis or Unspecified Site
Thyroid Gland: C-Cell

Uterus
All Organs

Morphology

Adenoma
Pheochromocytoma Benign
Carcinoma or Adenoma
Adenoma
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma
Adenoma
Mesothelioma: Benign, Malignant, NOS
Mesothelioma: Malignant
Malignant Tumors

Morphology

Pheochromocytoma Benign
Pheochromocytoma: Benign, Complex, Malignant, NOS
Carcinoma
Carcinoma or Adenoma
Adenoma
Carcinoma
Carcinoma or Adenoma
Polyp Stromal
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated
Malignant Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	4/49 (8%)	4/50 (8%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/41.57	4/40.46	1/37.86	0/37.88
POLY-3 PERCENT (g)	9.6%	9.9%	2.6%	0%
TERMINAL (d)	3/25 (12%)	3/27 (11%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	661	535	555	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	17/1199 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.026N*	P=0.629	P=0.207N	P=0.072N
POLY 1.5	P=0.024N*	P=0.637	P=0.195N	P=0.067N
POLY 6	P=0.030N*	P=0.624	P=0.222N	P=0.081N
COCH-ARM / FISHERS	P=0.021N*	P=0.631N	P=0.181N	P=0.056N
MAX-ISO-POLY-3	P=0.040N*	P=0.483	P=0.110N	P=0.030N*
HISTCONT SAME RTE	P=0.464	P=0.050*	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.348	P<0.001**	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.012*			
CURR VS HC ALL RTES	P<0.001**			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	5/49 (10%)	11/50 (22%)	8/48 (17%)	8/50 (16%)
POLY-3 RATE (b)	5/41.81	11/41.43	8/37.26	8/38.72
POLY-3 PERCENT (g)	12%	26.6%	21.5%	20.7%
TERMINAL (d)	2/25 (8%)	7/27 (26%)	4/21 (19%)	5/19 (26%)
FIRST INCIDENCE	654	466	642	628
HC TUMORS SAME ROUTE	26/150 (17%)			
HC TUMORS ALL ROUTES	165/1195 (14%)			
STATISTICAL TESTS				
POLY 3	P=0.301	P=0.076	P=0.201	P=0.223
POLY 1.5	P=0.340	P=0.081	P=0.225	P=0.247
POLY 6	P=0.251	P=0.072	P=0.175	P=0.194
COCH-ARM / FISHERS	P=0.408	P=0.093	P=0.263	P=0.290
MAX-ISO-POLY-3	P=0.183	P=0.044*	P=0.138	P=0.153
HISTCONT SAME RTE	P=0.478	P=0.144	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.102	P=0.019*	P=0.188	P=0.229
CURR VS HC SAME RTE	P=0.182			
CURR VS HC ALL RTES	P=0.495			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	2/49 (4%)	1/50 (2%)	0/48 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/41.52	1/40.15	0/36.31	1/37.88
POLY-3 PERCENT (g)	4.8%	2.5%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/21 (0%)	1/19 (5%)
FIRST INCIDENCE	686	649	---	729 (T)
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	20/1195 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.377N	P=0.512N	P=0.268N	P=0.532N
POLY 1.5	P=0.371N	P=0.506N	P=0.257N	P=0.517N
POLY 6	P=0.387N	P=0.516N	P=0.283N	P=0.553N
COCH-ARM / FISHERS	P=0.364N	P=0.492N	P=0.253N	P=0.492N
MAX-ISO-POLY-3	P=0.284N	P=0.294N	P=0.104N	P=0.316N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.665	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.873			
CURR VS HC ALL RTES	P=0.213			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	6/49 (12%)	12/50 (24%)	8/48 (17%)	9/50 (18%)
POLY-3 RATE (b)	6/41.85	12/41.72	8/37.26	9/38.72
POLY-3 PERCENT (g)	14.3%	28.8%	21.5%	23.2%
TERMINAL (d)	2/25 (8%)	7/27 (26%)	4/21 (19%)	6/19 (32%)
FIRST INCIDENCE	654	466	642	628
HC TUMORS SAME ROUTE	33/150 (22%)			
HC TUMORS ALL ROUTES	189/1195 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.311	P=0.087	P=0.296	P=0.228
POLY 1.5	P=0.353	P=0.092	P=0.325	P=0.255
POLY 6	P=0.257	P=0.085	P=0.263	P=0.195
COCH-ARM / FISHERS	P=0.424	P=0.104	P=0.371	P=0.303
MAX-ISO-POLY-3	P=0.223	P=0.052	P=0.215	P=0.161
HISTCONT SAME RTE	P=1.000	P=0.277	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.168	P=0.033*	P=0.359	P=0.239
CURR VS HC SAME RTE	P=0.092			
CURR VS HC ALL RTES	P=0.531			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Bone				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.99	0/39.85	0/37.70	1/37.99
POLY-3 PERCENT (g)	4.7%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	367	---	---	701
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	18/1199 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.458N	P=0.254N	P=0.267N	P=0.543N
POLY 1.5	P=0.457N	P=0.249N	P=0.255N	P=0.528N
POLY 6	P=0.460N	P=0.258N	P=0.282N	P=0.563N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.188N	P=0.092N	P=0.104N	P=0.327N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.556	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.705			
CURR VS HC ALL RTES	P=0.169			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Clitoral/Preputial Gland Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/49 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/41.91	0/38.85	2/37.14	0/37.88
POLY-3 PERCENT (g)	4.8%	0%	5.4%	0%
TERMINAL (d)	2/25 (8%)	0/26 (0%)	2/22 (9%)	0/19 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	47/1198 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.263N	P=0.254N	P=0.650	P=0.260N
POLY 1.5	P=0.257N	P=0.250N	P=0.665	P=0.252N
POLY 6	P=0.274N	P=0.257N	P=0.633	P=0.272N
COCH-ARM / FISHERS	P=0.247N	P=0.253N	P=0.684	P=0.247N
MAX-ISO-POLY-3	P=0.156N	P=0.091N	P=0.452	P=0.098N
HISTCONT SAME RTE	P=0.753	P=1.000	P=0.461	P=1.000
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.730			
CURR VS HC ALL RTES	P=0.949			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Clitoral/Preputial Gland Carcinoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/49 (2%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/43.25	1/38.99	3/38.20	0/37.88
POLY-3 PERCENT (g)	4.6%	2.6%	7.9%	0%
TERMINAL (d)	0/25 (0%)	0/26 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	492	694	555	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	19/1198 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.281N	P=0.536N	P=0.443	P=0.268N
POLY 1.5	P=0.265N	P=0.526N	P=0.462	P=0.256N
POLY 6	P=0.305N	P=0.544N	P=0.424	P=0.284N
COCH-ARM / FISHERS	P=0.241N	P=0.508N	P=0.490	P=0.247N
MAX-ISO-POLY-3	P=0.216N	P=0.319N	P=0.285	P=0.104N
HISTCONT SAME RTE	P=0.561	P=1.000	P=0.125	P=1.000
HISTCONT ALL RTES	P=0.391	P=1.000	P=0.009**	P=1.000
CURR VS HC SAME RTE	P=0.523			
CURR VS HC ALL RTES	P=0.200			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	1/49 (2%)	5/49 (10%)	0/50 (0%)
POLY-3 RATE (b)	4/43.25	1/38.99	5/38.20	0/37.88
POLY-3 PERCENT (g)	9.3%	2.6%	13.1%	0%
TERMINAL (d)	2/25 (8%)	0/26 (0%)	3/22 (14%)	0/19 (0%)
FIRST INCIDENCE	492	694	555	---
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	65/1198 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.141N	P=0.211N	P=0.422	P=0.078N
POLY 1.5	P=0.129N	P=0.202N	P=0.447	P=0.071N
POLY 6	P=0.161N	P=0.218N	P=0.395	P=0.089N
COCH-ARM / FISHERS	P=0.114N	P=0.187N	P=0.487	P=0.059N
MAX-ISO-POLY-3	P=0.080N	P=0.113N	P=0.302	P=0.034N*
HISTCONT SAME RTE	P=0.670	P=1.000	P=0.207	P=1.000
HISTCONT ALL RTES	P=0.749	P=1.000	P=0.063	P=1.000
CURR VS HC SAME RTE	P=0.554			
CURR VS HC ALL RTES	P=0.442			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	2/42.16	2/39.85	3/37.70	1/37.48
POLY-3 PERCENT (g)	4.7%	5%	8%	2.7%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	3/22 (14%)	1/19 (5%)
FIRST INCIDENCE	676	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	9/150 (6%)			
HC TUMORS ALL ROUTES	89/1197 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.455N	P=0.674	P=0.449	P=0.541N
POLY 1.5	P=0.439N	P=0.681	P=0.470	P=0.529N
POLY 6	P=0.481N	P=0.669	P=0.422	P=0.559N
COCH-ARM / FISHERS	P=0.412N	P=0.691N	P=0.500	P=0.508N
MAX-ISO-POLY-3	P=0.434N	P=0.477	P=0.289	P=0.323N
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=0.653			
CURR VS HC ALL RTES	P=0.394			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Carcinoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	4/50 (8%)	4/49 (8%)
POLY-3 RATE (b)	2/41.91	2/39.88	4/37.88	4/37.85
POLY-3 PERCENT (g)	4.8%	5%	10.6%	10.6%
TERMINAL (d)	2/25 (8%)	1/27 (4%)	3/22 (14%)	1/19 (5%)
FIRST INCIDENCE	729 (T)	723	683	676
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	17/1197 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.170	P=0.677	P=0.290	P=0.290
POLY 1.5	P=0.181	P=0.682	P=0.309	P=0.303
POLY 6	P=0.154	P=0.674	P=0.269	P=0.274
COCH-ARM / FISHERS	P=0.202	P=0.691N	P=0.339	P=0.329
MAX-ISO-POLY-3	P=0.274	P=0.479	P=0.176	P=0.175
HISTCONT SAME RTE	P=0.051	P=1.000	P=0.107	P=0.106
HISTCONT ALL RTES	P<0.001**	P=0.127	P<0.001**	P<0.001**
CURR VS HC SAME RTE	P=0.851			
CURR VS HC ALL RTES	P=0.139			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	4/50 (8%)	7/50 (14%)	5/49 (10%)
POLY-3 RATE (b)	4/42.16	4/39.88	7/37.88	5/37.85
POLY-3 PERCENT (g)	9.5%	10%	18.5%	13.2%
TERMINAL (d)	2/25 (8%)	3/27 (11%)	6/22 (27%)	2/19 (11%)
FIRST INCIDENCE	676	723	683	676
HC TUMORS SAME ROUTE	14/150 (9%)			
HC TUMORS ALL ROUTES	106/1197 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.298	P=0.613	P=0.199	P=0.432
POLY 1.5	P=0.321	P=0.623	P=0.224	P=0.451
POLY 6	P=0.267	P=0.606	P=0.170	P=0.406
COCH-ARM / FISHERS	P=0.361	P=0.643N	P=0.262	P=0.487
MAX-ISO-POLY-3	P=0.332	P=0.467	P=0.133	P=0.308
HISTCONT SAME RTE	P=0.307	P=1.000	P=0.145	P=0.472
HISTCONT ALL RTES	P=0.357	P=1.000	P=0.142	P=0.399
CURR VS HC SAME RTE	P=0.749			
CURR VS HC ALL RTES	P=0.875			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	2/40.38	1/37.31	1/37.88
POLY-3 PERCENT (g)	0%	5%	2.7%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	---	656	729 (T)	729 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	1/1196 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.451	P=0.228	P=0.477	P=0.480
POLY 1.5	P=0.469	P=0.231	P=0.484	P=0.487
POLY 6	P=0.426	P=0.229	P=0.467	P=0.470
COCH-ARM / FISHERS	P=0.499	P=0.247	P=0.495	P=0.500
MAX-ISO-POLY-3	P=0.282	P=0.075	P=0.157	P=0.158
HISTCONT SAME RTE	P=0.156	P=0.078	P=0.234	P=0.236
HISTCONT ALL RTES	P<0.001**	P<0.001**	P=0.016*	P=0.017*
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.535			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	2/40.38	1/37.31	1/37.88
POLY-3 PERCENT (g)	0%	5%	2.7%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	---	656	729 (T)	729 (T)
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	6/1196 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.451	P=0.228	P=0.477	P=0.480
POLY 1.5	P=0.469	P=0.231	P=0.484	P=0.487
POLY 6	P=0.426	P=0.229	P=0.467	P=0.470
COCH-ARM / FISHERS	P=0.499	P=0.247	P=0.495	P=0.500
MAX-ISO-POLY-3	P=0.282	P=0.075	P=0.157	P=0.158
HISTCONT SAME RTE	P=0.228	P=0.132	P=0.460	P=0.465
HISTCONT ALL RTES	P=0.026*	P=0.004**	P=0.250	P=0.256
CURR VS HC SAME RTE	P=0.429			
CURR VS HC ALL RTES	P=0.587			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.98	1/39.92	0/37.70	0/37.88
POLY-3 PERCENT (g)	2.4%	2.5%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	712	711	---	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	18/1199 (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)			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	3/42.70	1/39.85	3/37.88	3/38.34
POLY-3 PERCENT (g)	7%	2.5%	7.9%	7.8%
TERMINAL (d)	1/25 (4%)	1/27 (4%)	2/22 (9%)	2/19 (11%)
FIRST INCIDENCE	614	729 (T)	683	593
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	30/1199 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.413	P=0.330N	P=0.606	P=0.612
POLY 1.5	P=0.430	P=0.321N	P=0.630	P=0.631
POLY 6	P=0.387	P=0.338N	P=0.576	P=0.585
COCH-ARM / FISHERS	P=0.456	P=0.309N	P=0.661N	P=0.661N
MAX-ISO-POLY-3	P=0.475	P=0.179N	P=0.441	P=0.447
HISTCONT SAME RTE	P=0.055	P=1.000	P=0.112	P=0.113
HISTCONT ALL RTEs	P=0.038*	P=1.000	P=0.080	P=0.082
CURR VS HC SAME RTE	P=0.101			
CURR VS HC ALL RTEs	P=0.128			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/42.70	2/39.85	4/37.88	4/38.34
POLY-3 PERCENT (g)	7%	5%	10.6%	10.4%
TERMINAL (d)	1/25 (4%)	2/27 (7%)	3/22 (14%)	3/19 (16%)
FIRST INCIDENCE	614	729 (T)	683	593
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	44/1199 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.281	P=0.532N	P=0.435	P=0.441
POLY 1.5	P=0.300	P=0.520N	P=0.462	P=0.463
POLY 6	P=0.252	P=0.542N	P=0.401	P=0.410
COCH-ARM / FISHERS	P=0.331	P=0.500N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.393	P=0.356N	P=0.299	P=0.303
HISTCONT SAME RTE	P=0.053	P=1.000	P=0.108	P=0.109
HISTCONT ALL RTEs	P=0.017*	P=1.000	P=0.045*	P=0.047*
CURR VS HC SAME RTE	P=0.442			
CURR VS HC ALL RTEs	P=0.394			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	1/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	2.7%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	2/1199 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.91	1/40.30	1/37.94	2/38.22
POLY-3 PERCENT (g)	2.4%	2.5%	2.6%	5.2%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	729 (T)	599	666	670
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	33/1199 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.322	P=0.752	P=0.738	P=0.468
POLY 1.5	P=0.333	P=0.754	P=0.747	P=0.479
POLY 6	P=0.307	P=0.752	P=0.728	P=0.453
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.394	P=0.488	P=0.472	P=0.262
HISTCONT SAME RTE	P=0.235	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.406	P=1.000	P=1.000	P=0.371
CURR VS HC SAME RTE	P=0.598			
CURR VS HC ALL RTES	P=0.772			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/41.91	1/40.30	2/37.94	2/38.22
POLY-3 PERCENT (g)	2.4%	2.5%	5.3%	5.2%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	729 (T)	599	666	670
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	37/1199 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.302	P=0.752	P=0.465	P=0.468
POLY 1.5	P=0.315	P=0.754	P=0.479	P=0.479
POLY 6	P=0.285	P=0.752	P=0.449	P=0.453
COCH-ARM / FISHERS	P=0.337	P=0.753N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.420	P=0.488	P=0.261	P=0.262
HISTCONT SAME RTE	P=0.278	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.463	P=1.000	P=0.439	P=0.444
CURR VS HC SAME RTE	P=0.598			
CURR VS HC ALL RTES	P=0.685			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	0/41.10	0/39.85	1/37.70	4/38.22
POLY-3 PERCENT (g)	0%	0%	2.7%	10.5%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	3/19 (16%)
FIRST INCIDENCE	---	---	729 (T)	635
HC TUMORS SAME ROUTE	0/149 (0%)			
HC TUMORS ALL ROUTES	0/1198 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.004**	(e)	P=0.483	P=0.051
POLY 1.5	P=0.005**	(e)	P=0.491	P=0.055
POLY 6	P=0.004**	(e)	P=0.472	P=0.045*
COCH-ARM / FISHERS	P=0.006**	(e)	P=0.505	P=0.061
MAX-ISO-POLY-3	P=0.006**	(e)	P=0.159	P=0.019*
HISTCONT SAME RTE	P=0.017*	(e)	P=0.237	P=0.037*
HISTCONT ALL RTES	P<0.001**	(e)	P<0.001**	P<0.001**
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pancreas				
Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/41.91	0/39.85	2/37.86	1/37.53
POLY-3 PERCENT (g)	0%	0%	5.3%	2.7%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	---	689	718
HC TUMORS SAME ROUTE	0/149 (0%)			
HC TUMORS ALL ROUTES	21/1194 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.215	(e)	P=0.215	P=0.478
POLY 1.5	P=0.224	(e)	P=0.224	P=0.484
POLY 6	P=0.201	(e)	P=0.204	P=0.469
COCH-ARM / FISHERS	P=0.241	(e)	P=0.247	P=0.495
MAX-ISO-POLY-3	P=0.170	(e)	P=0.075	P=0.157
HISTCONT SAME RTE	P=0.123	(e)	P=0.080	P=0.235
HISTCONT ALL RTES	P=0.545	(e)	P=0.276	P=1.000
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.417			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	34/50 (68%)	28/49 (57%)	26/49 (53%)	33/50 (66%)
POLY-3 RATE (b)	34/46.25	28/43.42	26/40.70	33/44.37
POLY-3 PERCENT (g)	73.5%	64.5%	63.9%	74.4%
TERMINAL (d)	17/25 (68%)	16/27 (59%)	16/21 (76%)	15/19 (79%)
FIRST INCIDENCE	562	548	418	437
HC TUMORS SAME ROUTE	104/150 (69%)			
HC TUMORS ALL ROUTES	562/1197 (47%)			
STATISTICAL TESTS				
POLY 3	P=0.429	P=0.235N	P=0.217N	P=0.561
POLY 1.5	P=0.470	P=0.216N	P=0.149N	P=0.593N
POLY 6	P=0.348	P=0.253N	P=0.359N	P=0.493
COCH-ARM / FISHERS	P=0.537N	P=0.182N	P=0.094N	P=0.500N
MAX-ISO-POLY-3	P=0.369	P=0.175N	P=0.165N	P=0.461
HISTCONT SAME RTE	P=0.497	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.067	P=0.200	P=0.228	P=0.064
CURR VS HC SAME RTE	P=0.924			
CURR VS HC ALL RTES	P=0.004**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.44	0/36.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/21 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	4/1197 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	34/50 (68%)	28/49 (57%)	26/49 (53%)	33/50 (66%)
POLY-3 RATE (b)	34/46.25	28/43.42	26/40.70	33/44.37
POLY-3 PERCENT (g)	73.5%	64.5%	63.9%	74.4%
TERMINAL (d)	17/25 (68%)	16/27 (59%)	16/21 (76%)	15/19 (79%)
FIRST INCIDENCE	562	548	418	437
HC TUMORS SAME ROUTE	105/150 (70%)			
HC TUMORS ALL ROUTES	566/1197 (47%)			
STATISTICAL TESTS				
POLY 3	P=0.429	P=0.235N	P=0.217N	P=0.561
POLY 1.5	P=0.470	P=0.216N	P=0.149N	P=0.593N
POLY 6	P=0.348	P=0.253N	P=0.359N	P=0.493
COCH-ARM / FISHERS	P=0.537N	P=0.182N	P=0.094N	P=0.500N
MAX-ISO-POLY-3	P=0.369	P=0.175N	P=0.165N	P=0.461
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.075	P=0.210	P=0.238	P=0.069
CURR VS HC SAME RTE	P=0.847			
CURR VS HC ALL RTEs	P=0.004**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/42.17	0/39.85	2/38.03	1/37.88
POLY-3 PERCENT (g)	4.7%	0%	5.3%	2.6%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	661	---	637	729 (T)
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	15/1199 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.553N	P=0.250N	P=0.657	P=0.537N
POLY 1.5	P=0.544N	P=0.245N	P=0.672	P=0.523N
POLY 6	P=0.568N	P=0.253N	P=0.638	P=0.557N
COCH-ARM / FISHERS	P=0.531N	P=0.247N	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.481N	P=0.088N	P=0.459	P=0.320N
HISTCONT SAME RTE	P=0.180	P=1.000	P=0.132	P=0.467
HISTCONT ALL RTES	P=0.250	P=1.000	P=0.072	P=1.000
CURR VS HC SAME RTE	P=0.096			
CURR VS HC ALL RTES	P=0.094			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/42.26	0/39.85	2/38.03	1/37.88
POLY-3 PERCENT (g)	7.1%	0%	5.3%	2.6%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	661	---	637	729 (T)
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	25/1199 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.356N	P=0.129N	P=0.548N	P=0.345N
POLY 1.5	P=0.348N	P=0.125N	P=0.528N	P=0.330N
POLY 6	P=0.370N	P=0.132N	P=0.572N	P=0.367N
COCH-ARM / FISHERS	P=0.337N	P=0.121N	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.253N	P=0.047N*	P=0.372N	P=0.194N
HISTCONT SAME RTE	P=0.678	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.504	P=1.000	P=0.245	P=1.000
CURR VS HC SAME RTE	P=0.528			
CURR VS HC ALL RTES	P=0.061			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
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)	9/50 (18%)	4/50 (8%)	6/50 (12%)	4/50 (8%)
POLY-3 RATE (b)	9/42.54	4/40.54	6/38.64	4/38.60
POLY-3 PERCENT (g)	21.2%	9.9%	15.5%	10.4%
TERMINAL (d)	5/25 (20%)	3/27 (11%)	3/22 (14%)	2/19 (11%)
FIRST INCIDENCE	661	492	574	535
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	92/1199 (8%)			
STATISTICAL TESTS				
POLY 3	P=0.169N	P=0.131N	P=0.357N	P=0.152N
POLY 1.5	P=0.157N	P=0.126N	P=0.328N	P=0.138N
POLY 6	P=0.190N	P=0.135N	P=0.393N	P=0.175N
COCH-ARM / FISHERS	P=0.139N	P=0.117N	P=0.288N	P=0.117N
MAX-ISO-POLY-3	P=0.143N	P=0.081N	P=0.266N	P=0.101N
HISTCONT SAME RTE	P=0.213	P=0.297	P=0.106	P=0.277
HISTCONT ALL RTES	P=0.346	P=1.000	P=0.106	P=0.485
CURR VS HC SAME RTE	P=0.013*			
CURR VS HC ALL RTES	P=0.007**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/42.10	4/39.85	3/37.80	3/37.88
POLY-3 PERCENT (g)	2.4%	10%	7.9%	7.9%
TERMINAL (d)	0/25 (0%)	4/27 (15%)	2/22 (9%)	3/19 (16%)
FIRST INCIDENCE	679	729 (T)	705	729 (T)
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	97/1199 (8%)			
STATISTICAL TESTS				
POLY 3	P=0.293	P=0.161	P=0.267	P=0.267
POLY 1.5	P=0.317	P=0.167	P=0.282	P=0.281
POLY 6	P=0.259	P=0.156	P=0.248	P=0.248
COCH-ARM / FISHERS	P=0.357	P=0.181	P=0.309	P=0.309
MAX-ISO-POLY-3	P=0.236	P=0.078	P=0.140	P=0.141
HISTCONT SAME RTE	P=0.301	P=0.185	P=0.404	P=0.406
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.389			
CURR VS HC ALL RTES	P=0.126			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	6/50 (12%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	1/42.10	6/41.21	3/37.80	5/38.27
POLY-3 PERCENT (g)	2.4%	14.6%	7.9%	13.1%
TERMINAL (d)	0/25 (0%)	4/27 (15%)	2/22 (9%)	4/19 (21%)
FIRST INCIDENCE	679	294	705	617
HC TUMORS SAME ROUTE	11/150 (7%)			
HC TUMORS ALL ROUTES	126/1199 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.143	P=0.051	P=0.267	P=0.079
POLY 1.5	P=0.161	P=0.053	P=0.282	P=0.087
POLY 6	P=0.121	P=0.050*	P=0.248	P=0.069
COCH-ARM / FISHERS	P=0.194	P=0.056	P=0.309	P=0.102
MAX-ISO-POLY-3	P=0.088	P=0.022*	P=0.140	P=0.039*
HISTCONT SAME RTE	P=0.364	P=0.196	P=1.000	P=0.290
HISTCONT ALL RTES	P=0.729	P=0.412	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.185			
CURR VS HC ALL RTES	P=0.056			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.91	2/41.21	0/37.70	2/38.27
POLY-3 PERCENT (g)	0%	4.9%	0%	5.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	1/19 (5%)
FIRST INCIDENCE	---	294	---	617
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	30/1199 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.219	P=0.233	(e)	P=0.217
POLY 1.5	P=0.229	P=0.234	(e)	P=0.224
POLY 6	P=0.206	P=0.233	(e)	P=0.208
COCH-ARM / FISHERS	P=0.247	P=0.247	(e)	P=0.247
MAX-ISO-POLY-3	P=0.119	P=0.075	(e)	P=0.075
HISTCONT SAME RTE	P=0.460	P=0.495	(e)	P=0.461
HISTCONT ALL RTES	P=0.461	P=0.391	(e)	P=0.360
CURR VS HC SAME RTE	P=0.280			
CURR VS HC ALL RTES	P=0.280			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	3/42.19	3/40.54	3/38.21	2/38.60
POLY-3 PERCENT (g)	7.1%	7.4%	7.9%	5.2%
TERMINAL (d)	1/25 (4%)	2/27 (7%)	2/22 (9%)	0/19 (0%)
FIRST INCIDENCE	675	492	574	535
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	57/1199 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.441N	P=0.645	P=0.617	P=0.541N
POLY 1.5	P=0.425N	P=0.650	P=0.635	P=0.526N
POLY 6	P=0.466N	P=0.642	P=0.593	P=0.561N
COCH-ARM / FISHERS	P=0.397N	P=0.661N	P=0.661N	P=0.500N
MAX-ISO-POLY-3	P=0.554N	P=0.479	P=0.451	P=0.365N
HISTCONT SAME RTE	P=0.136	P=0.066	P=0.067	P=0.132
HISTCONT ALL RTES	P=0.645	P=0.424	P=0.386	P=1.000
CURR VS HC SAME RTE	P=0.028*			
CURR VS HC ALL RTES	P=0.666			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/41.21	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	4.9%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	294	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	9/1199 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.432N	P=0.233	(e)	(e)
POLY 1.5	P=0.421N	P=0.234	(e)	(e)
POLY 6	P=0.447N	P=0.233	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.288N	P=0.075	(e)	(e)
HISTCONT SAME RTE	P=0.416	P=0.078	(e)	(e)
HISTCONT ALL RTES	P=0.589	P=0.032*	(e)	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.630			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/41.91	1/39.85	1/37.80	1/37.88
POLY-3 PERCENT (g)	7.2%	2.5%	2.7%	2.6%
TERMINAL (d)	3/25 (12%)	1/27 (4%)	0/22 (0%)	1/19 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	705	729 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	6/1199 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.258N	P=0.323N	P=0.343N	P=0.342N
POLY 1.5	P=0.252N	P=0.317N	P=0.327N	P=0.328N
POLY 6	P=0.269N	P=0.326N	P=0.361N	P=0.361N
COCH-ARM / FISHERS	P=0.242N	P=0.309N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.250N	P=0.172N	P=0.191N	P=0.191N
HISTCONT SAME RTE	P=0.096	P=0.238	P=0.236	P=0.236
HISTCONT ALL RTES	P=0.019*	P=0.233	P=0.222	P=0.223
CURR VS HC SAME RTE	P=0.003**			
CURR VS HC ALL RTES	P<0.001**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	4/50 (8%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	6/42.19	4/40.54	4/38.31	3/38.60
POLY-3 PERCENT (g)	14.2%	9.9%	10.4%	7.8%
TERMINAL (d)	4/25 (16%)	3/27 (11%)	2/22 (9%)	1/19 (5%)
FIRST INCIDENCE	675	492	574	535
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	70/1199 (6%)			
STATISTICAL TESTS				
POLY 3	P=0.244N	P=0.394N	P=0.431N	P=0.286N
POLY 1.5	P=0.230N	P=0.386N	P=0.406N	P=0.270N
POLY 6	P=0.266N	P=0.398N	P=0.461N	P=0.309N
COCH-ARM / FISHERS	P=0.208N	P=0.370N	P=0.370N	P=0.243N
MAX-ISO-POLY-3	P=0.295N	P=0.276N	P=0.312N	P=0.189N
HISTCONT SAME RTE	P=0.093	P=0.051	P=0.052	P=0.079
HISTCONT ALL RTES	P=0.443	P=0.298	P=0.263	P=1.000
CURR VS HC SAME RTE	P<0.001**			
CURR VS HC ALL RTES	P=0.064			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	4/50 (8%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	6/42.19	4/40.54	4/38.31	3/38.60
POLY-3 PERCENT (g)	14.2%	9.9%	10.4%	7.8%
TERMINAL (d)	4/25 (16%)	3/27 (11%)	2/22 (9%)	1/19 (5%)
FIRST INCIDENCE	675	492	574	535
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	63/1199 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.244N	P=0.394N	P=0.431N	P=0.286N
POLY 1.5	P=0.230N	P=0.386N	P=0.406N	P=0.270N
POLY 6	P=0.266N	P=0.398N	P=0.461N	P=0.309N
COCH-ARM / FISHERS	P=0.208N	P=0.370N	P=0.370N	P=0.243N
MAX-ISO-POLY-3	P=0.295N	P=0.276N	P=0.312N	P=0.189N
HISTCONT SAME RTE	P=0.082	P=0.045*	P=0.046*	P=0.066
HISTCONT ALL RTES	P=0.324	P=0.238	P=0.210	P=0.463
CURR VS HC SAME RTE	P<0.001**			
CURR VS HC ALL RTES	P=0.037*			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.17	0/39.85	2/38.03	0/37.88
POLY-3 PERCENT (g)	2.4%	0%	5.3%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	661	---	637	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	3/1199 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.486N	P=0.511N	P=0.464	P=0.521N
POLY 1.5	P=0.476N	P=0.507N	P=0.479	P=0.513N
POLY 6	P=0.502N	P=0.514N	P=0.447	P=0.533N
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.352N	P=0.172N	P=0.260	P=0.184N
HISTCONT SAME RTE	P=0.269	(e)	P=0.080	(e)
HISTCONT ALL RTES	P=0.134	P=1.000	P<0.001**	P=1.000
CURR VS HC SAME RTE	P=0.074			
CURR VS HC ALL RTES	P=0.033*			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	32/50 (64%)	35/50 (70%)	39/50 (78%)	25/50 (50%)
POLY-3 RATE (b)	32/45.19	35/43.47	39/44.37	25/42.52
POLY-3 PERCENT (g)	70.8%	80.5%	87.9%	58.8%
TERMINAL (d)	21/25 (84%)	24/27 (89%)	21/22 (96%)	11/19 (58%)
FIRST INCIDENCE	551	535	500	449
HC TUMORS SAME ROUTE	99/150 (66%)			
HC TUMORS ALL ROUTES	953/1199 (80%)			
STATISTICAL TESTS				
POLY 3	P=0.072N	P=0.186	P=0.026*	P=0.155N
POLY 1.5	P=0.070N	P=0.235	P=0.042*	P=0.142N
POLY 6	P=0.083N	P=0.149	P=0.017*	P=0.177N
COCH-ARM / FISHERS	P=0.063N	P=0.335	P=0.093	P=0.113N
MAX-ISO-POLY-3	P=0.011N*	P=0.128	P=0.013*	P=0.112N
HISTCONT SAME RTE	P=0.656	P=0.137	P=0.038*	P=1.000
HISTCONT ALL RTES	P=1.000	P=1.000	P=0.417	P=1.000
CURR VS HC SAME RTE	P=0.726			
CURR VS HC ALL RTES	P=0.005**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	5/49 (10%)	4/49 (8%)	1/48 (2%)
POLY-3 RATE (b)	4/42.38	5/39.89	4/36.70	1/37.27
POLY-3 PERCENT (g)	9.4%	12.5%	10.9%	2.7%
TERMINAL (d)	3/25 (12%)	3/27 (11%)	4/21 (19%)	1/19 (5%)
FIRST INCIDENCE	591	611	729 (T)	729 (T)
HC TUMORS SAME ROUTE	17/150 (11%)			
HC TUMORS ALL ROUTES	179/1189 (15%)			
STATISTICAL TESTS				
POLY 3	P=0.152N	P=0.462	P=0.563	P=0.219N
POLY 1.5	P=0.140N	P=0.469	P=0.592	P=0.209N
POLY 6	P=0.174N	P=0.463	P=0.525	P=0.235N
COCH-ARM / FISHERS	P=0.121N	P=0.487	P=0.631	P=0.194N
MAX-ISO-POLY-3	P=0.172N	P=0.331	P=0.419	P=0.120N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.447			
CURR VS HC ALL RTES	P=0.189			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	3/49 (6%)	3/49 (6%)	3/48 (6%)
POLY-3 RATE (b)	3/41.96	3/39.75	3/37.44	3/37.73
POLY-3 PERCENT (g)	7.2%	7.6%	8%	8%
TERMINAL (d)	2/25 (8%)	2/27 (7%)	1/21 (5%)	1/19 (5%)
FIRST INCIDENCE	717	563	586	635
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	28/1189 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.523	P=0.638	P=0.609	P=0.613
POLY 1.5	P=0.536	P=0.641	P=0.627	P=0.623
POLY 6	P=0.502	P=0.640	P=0.590	P=0.599
COCH-ARM / FISHERS	P=0.561	P=0.651	P=0.651	P=0.641
MAX-ISO-POLY-3	P=0.684	P=0.472	P=0.444	P=0.447
HISTCONT SAME RTE	P=0.408	P=0.465	P=0.421	P=0.426
HISTCONT ALL RTES	P=0.025*	P=0.099	P=0.090	P=0.089
CURR VS HC SAME RTE	P=0.736			
CURR VS HC ALL RTES	P=0.100			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	7/50 (14%)	8/49 (16%)	6/49 (12%)	4/48 (8%)
POLY-3 RATE (b)	7/42.43	8/40.43	6/37.44	4/37.73
POLY-3 PERCENT (g)	16.5%	19.8%	16%	10.6%
TERMINAL (d)	5/25 (20%)	5/27 (19%)	4/21 (19%)	2/19 (11%)
FIRST INCIDENCE	591	563	586	635
HC TUMORS SAME ROUTE	23/150 (15%)			
HC TUMORS ALL ROUTES	205/1189 (17%)			
STATISTICAL TESTS				
POLY 3	P=0.227N	P=0.459	P=0.597N	P=0.330N
POLY 1.5	P=0.210N	P=0.464	P=0.564N	P=0.314N
POLY 6	P=0.256N	P=0.466	P=0.605	P=0.353N
COCH-ARM / FISHERS	P=0.183N	P=0.483	P=0.516N	P=0.286N
MAX-ISO-POLY-3	P=0.303N	P=0.350	P=0.477N	P=0.233N
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=0.780			
CURR VS HC ALL RTES	P=0.606			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: Follicular Cell Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/41.91	0/39.21	0/36.70	0/37.27
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/21 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	12/1189 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: Follicular Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)	0/48 (0%)
POLY-3 RATE (b)	0/41.91	0/39.21	1/36.70	0/37.27
POLY-3 PERCENT (g)	0%	0%	2.7%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/21 (5%)	0/19 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	22/1189 (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)			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Urinary Bladder Carcinoma				
TUMOR RATES				
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.32	2/40.81	0/37.14	0/37.88
POLY-3 PERCENT (g)	0%	4.9%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	355	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/1198 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.432N	P=0.234	(e)	(e)
POLY 1.5	P=0.420N	P=0.237	(e)	(e)
POLY 6	P=0.448N	P=0.232	(e)	(e)
COCH-ARM / FISHERS	P=0.402N	P=0.253	(e)	(e)
MAX-ISO-POLY-3	P=0.285N	P=0.077	(e)	(e)
HISTCONT SAME RTE	P=0.415	P=0.078	(e)	(e)
HISTCONT ALL RTES	P=0.107	P<0.001**	(e)	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/40.35	1/37.82	0/37.88
POLY-3 PERCENT (g)	0%	5%	2.6%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	656	698	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	8/1199 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.501N	P=0.228	P=0.480	(e)
POLY 1.5	P=0.486N	P=0.231	P=0.488	(e)
POLY 6	P=0.521N	P=0.229	P=0.470	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.339	P=0.075	P=0.158	(e)
HISTCONT SAME RTE	P=0.279	P=0.078	P=0.236	(e)
HISTCONT ALL RTES	P=0.332	P=0.017*	P=0.352	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.625			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	17/50 (34%)	17/50 (34%)	16/50 (32%)	20/50 (40%)
POLY-3 RATE (b)	17/44.61	17/42.68	16/41.15	20/43.04
POLY-3 PERCENT (g)	38.1%	39.8%	38.9%	46.5%
TERMINAL (d)	8/25 (32%)	9/27 (33%)	6/22 (27%)	7/19 (37%)
FIRST INCIDENCE	551	560	563	437
HC TUMORS SAME ROUTE	79/150 (53%)			
HC TUMORS ALL ROUTES	435/1199 (36%)			
STATISTICAL TESTS				
POLY 3	P=0.237	P=0.522	P=0.560	P=0.278
POLY 1.5	P=0.254	P=0.540	P=0.574N	P=0.297
POLY 6	P=0.207	P=0.514	P=0.520	P=0.249
COCH-ARM / FISHERS	P=0.291	P=0.583N	P=0.500N	P=0.339
MAX-ISO-POLY-3	P=0.340	P=0.433	P=0.470	P=0.214
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.540	P=1.000	P=1.000	P=0.308
CURR VS HC SAME RTE	P=0.023*			
CURR VS HC ALL RTES	P=0.856			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	12/50 (24%)	28/50 (56%)	23/50 (46%)
POLY-3 RATE (b)	1/42.45	12/42.95	28/44.19	23/43.64
POLY-3 PERCENT (g)	2.4%	27.9%	63.4%	52.7%
TERMINAL (d)	0/25 (0%)	5/27 (19%)	10/22 (46%)	7/19 (37%)
FIRST INCIDENCE	562	535	500	449
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	37/1199 (3%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
HISTCONT SAME RTE	P=0.005**	P=0.012*	P=0.002**	P=0.004**
HISTCONT ALL RTES	P<0.001**	P<0.001**	P<0.001**	P<0.001**
CURR VS HC SAME RTE	P=0.075			
CURR VS HC ALL RTES	P=0.678			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	12/50 (24%)	28/50 (56%)	23/50 (46%)
POLY-3 RATE (b)	1/42.45	12/42.95	28/44.19	23/43.64
POLY-3 PERCENT (g)	2.4%	27.9%	63.4%	52.7%
TERMINAL (d)	0/25 (0%)	5/27 (19%)	10/22 (46%)	7/19 (37%)
FIRST INCIDENCE	562	535	500	449
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	36/1199 (3%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
HISTCONT SAME RTE	P=0.005**	P=0.012*	P=0.002**	P=0.004**
HISTCONT ALL RTES	P<0.001**	P<0.001**	P<0.001**	P<0.001**
CURR VS HC SAME RTE	P=0.075			
CURR VS HC ALL RTES	P=0.699			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.99	0/39.85	0/37.70	1/37.99
POLY-3 PERCENT (g)	4.7%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	367	---	---	701
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	19/1199 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.458N	P=0.254N	P=0.267N	P=0.543N
POLY 1.5	P=0.457N	P=0.249N	P=0.255N	P=0.528N
POLY 6	P=0.460N	P=0.258N	P=0.282N	P=0.563N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.188N	P=0.092N	P=0.104N	P=0.327N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.587	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.885			
CURR VS HC ALL RTES	P=0.197			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	47/50 (94%)	48/50 (96%)	47/50 (94%)	48/50 (96%)
POLY-3 RATE (b)	47/47.79	48/48.18	47/47.85	48/48.41
POLY-3 PERCENT (g)	98.4%	99.6%	98.2%	99.2%
TERMINAL (d)	25/25 (100%)	27/27 (100%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	551	466	418	437
HC TUMORS SAME ROUTE	140/150 (93%)			
HC TUMORS ALL ROUTES	1148/1199 (96%)			
STATISTICAL TESTS				
POLY 3	P=0.685	P=0.780	P=0.890N	P=0.831
POLY 1.5	P=0.454	P=0.536	P=0.780N	P=0.549
POLY 6	P=0.975N	P=1.000	P=0.999N	P=1.000
COCH-ARM / FISHERS	P=0.456	P=0.500	P=0.661N	P=0.500
MAX-ISO-POLY-3	P=0.432	P=0.116	P=0.464N	P=0.278
HISTCONT SAME RTE	P=0.094	P=0.119	P=0.262	P=0.153
HISTCONT ALL RTES	P=0.464	P=0.386	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.315			
CURR VS HC ALL RTES	P=0.943			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	35/50 (70%)	39/50 (78%)	42/50 (84%)
POLY-3 RATE (b)	27/47.67	35/47.83	39/46.46	42/47.15
POLY-3 PERCENT (g)	56.6%	73.2%	83.9%	89.1%
TERMINAL (d)	11/25 (44%)	16/27 (59%)	16/22 (73%)	17/19 (90%)
FIRST INCIDENCE	367	294	500	437
HC TUMORS SAME ROUTE	102/150 (68%)			
HC TUMORS ALL ROUTES	631/1199 (53%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.064	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	P=0.064	P=0.003**	P<0.001**
POLY 6	P<0.001**	P=0.074	P=0.002**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.074	P=0.010**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.040*	P<0.001**	P<0.001**
HISTCONT SAME RTE	P=0.025*	P=0.474	P=0.088	P=0.048*
HISTCONT ALL RTES	P<0.001**	P=0.048*	P=0.006**	P<0.001**
CURR VS HC SAME RTE	P=0.072			
CURR VS HC ALL RTES	P=0.866			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	49/50 (98%)	49/50 (98%)
POLY-3 RATE (b)	50/50.00	50/50.00	49/49.07	49/49.00
POLY-3 PERCENT (g)	100%	100%	99.9%	100%
TERMINAL (d)	25/25 (100%)	27/27 (100%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	367	294	418	437
HC TUMORS SAME ROUTE	149/150 (99%)			
HC TUMORS ALL ROUTES	1184/1199 (99%)			
STATISTICAL TESTS				
POLY 3	P=1.000N	(e)	P=1.000N	P=1.000N
POLY 1.5	P=0.991N	(e)	P=0.998N	P=1.000N
POLY 6	P=1.000N	(e)	P=1.000N	P=0.500N
COCH-ARM / FISHERS	P=0.236N	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.389N	(e)	P=0.161N	P=0.161N
HISTCONT SAME RTE	P=0.243	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.409	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.446			
CURR VS HC ALL RTES	P=0.611			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/45.39	3/41.79	1/41.57	1/41.62
POLY-3 PERCENT (g)	4.4%	7.2%	2.4%	2.4%
TERMINAL (d)	2/30 (7%)	3/26 (12%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	670
HC TUMORS SAME ROUTE	15/150 (10%)			
HC TUMORS ALL ROUTES	31/1145 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.307N	P=0.462	P=0.531N	P=0.530N
POLY 1.5	P=0.297N	P=0.478	P=0.519N	P=0.519N
POLY 6	P=0.323N	P=0.442	P=0.541N	P=0.547N
COCH-ARM / FISHERS	P=0.279N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.365N	P=0.298	P=0.314N	P=0.313N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.690	P=0.200	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.214			
CURR VS HC ALL RTEs	P=0.629			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	5/50 (10%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	0/45.39	5/41.79	2/41.57	2/41.23
POLY-3 PERCENT (g)	0%	12%	4.8%	4.9%
TERMINAL (d)	0/30 (0%)	5/26 (19%)	2/29 (7%)	2/19 (11%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	33/1140 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.411	P=0.024*	P=0.218	P=0.216
POLY 1.5	P=0.433	P=0.027*	P=0.225	P=0.222
POLY 6	P=0.375	P=0.021*	P=0.211	P=0.205
COCH-ARM / FISHERS	P=0.468	P=0.028*	P=0.247	P=0.242
MAX-ISO-POLY-3	P=0.111	P=0.009**	P=0.076	P=0.074
HISTCONT SAME RTE	P=0.316	P=0.059	P=0.463	P=0.459
HISTCONT ALL RTES	P=0.153	P<0.001**	P=0.436	P=0.432
CURR VS HC SAME RTE	P=0.234			
CURR VS HC ALL RTES	P=0.170			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	1/45.39	0/41.79	2/41.64	0/41.23
POLY-3 PERCENT (g)	2.2%	0%	4.8%	0%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	---	715	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	4/1140 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.477N	P=0.516N	P=0.470	P=0.519N
POLY 1.5	P=0.473N	P=0.510N	P=0.481	P=0.513N
POLY 6	P=0.488N	P=0.525N	P=0.460	P=0.529N
COCH-ARM / FISHERS	P=0.466N	P=0.500N	P=0.500	P=0.505N
MAX-ISO-POLY-3	P=0.344N	P=0.179N	P=0.264	P=0.181N
HISTCONT SAME RTE	P=0.379	P=1.000	P=0.132	P=1.000
HISTCONT ALL RTES	P=0.159	P=1.000	P=0.002**	P=1.000
CURR VS HC SAME RTE	P=0.450			
CURR VS HC ALL RTES	P=0.079			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	5/50 (10%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	1/45.39	5/41.79	3/41.64	2/41.23
POLY-3 PERCENT (g)	2.2%	12%	7.2%	4.9%
TERMINAL (d)	1/30 (3%)	5/26 (19%)	2/29 (7%)	2/19 (11%)
FIRST INCIDENCE	731 (T)	731 (T)	715	731 (T)
HC TUMORS SAME ROUTE	6/150 (4%)			
HC TUMORS ALL ROUTES	41/1140 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.541	P=0.083	P=0.275	P=0.467
POLY 1.5	P=0.561	P=0.091	P=0.286	P=0.477
POLY 6	P=0.504	P=0.074	P=0.265	P=0.448
COCH-ARM / FISHERS	P=0.573N	P=0.102	P=0.309	P=0.492
MAX-ISO-POLY-3	P=0.230	P=0.040*	P=0.143	P=0.261
HISTCONT SAME RTE	P=0.391	P=0.106	P=0.372	P=1.000
HISTCONT ALL RTES	P=0.213	P=0.003**	P=0.187	P=1.000
CURR VS HC SAME RTE	P=0.535			
CURR VS HC ALL RTES	P=0.520			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Bone				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.41	1/42.16	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	725	625	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	3/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Clitoral/Preputial Gland Adenoma				
TUMOR RATES				
OVERALL (a)	4/47 (9%)	8/48 (17%)	3/45 (7%)	4/48 (8%)
POLY-3 RATE (b)	4/42.44	8/40.48	3/37.77	4/40.14
POLY-3 PERCENT (g)	9.4%	19.8%	7.9%	10%
TERMINAL (d)	3/28 (11%)	6/24 (25%)	3/26 (12%)	0/18 (0%)
FIRST INCIDENCE	724	535	731 (T)	670
HC TUMORS SAME ROUTE	4/149 (3%)			
HC TUMORS ALL ROUTES	113/1147 (10%)			
STATISTICAL TESTS				
POLY 3	P=0.401N	P=0.151	P=0.564N	P=0.613
POLY 1.5	P=0.384N	P=0.166	P=0.549N	P=0.627
POLY 6	P=0.427N	P=0.134	P=0.577N	P=0.591
COCH-ARM / FISHERS	P=0.351N	P=0.188	P=0.525N	P=0.631N
MAX-ISO-POLY-3	P=0.364N	P=0.095	P=0.410N	P=0.467
HISTCONT SAME RTE	P=0.213	P=0.032*	P=0.193	P=0.109
HISTCONT ALL RTES	P=0.701	P=0.112	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.111			
CURR VS HC ALL RTES	P=0.720			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Clitoral/Preputial Gland Carcinoma				
TUMOR RATES				
OVERALL (a)	1/47 (2%)	0/48 (0%)	0/45 (0%)	5/48 (10%)
POLY-3 RATE (b)	1/42.41	0/39.79	0/37.77	5/40.25
POLY-3 PERCENT (g)	2.4%	0%	0%	12.4%
TERMINAL (d)	1/28 (4%)	0/24 (0%)	0/26 (0%)	3/18 (17%)
FIRST INCIDENCE	731 (T)	---	---	579
HC TUMORS SAME ROUTE	5/149 (3%)			
HC TUMORS ALL ROUTES	39/1147 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.008**	P=0.513N	P=0.523N	P=0.088
POLY 1.5	P=0.008**	P=0.506N	P=0.518N	P=0.095
POLY 6	P=0.007**	P=0.522N	P=0.528N	P=0.079
COCH-ARM / FISHERS	P=0.009**	P=0.495N	P=0.511N	P=0.107
MAX-ISO-POLY-3	P=0.004**	P=0.175N	P=0.184N	P=0.042*
HISTCONT SAME RTE	P=0.104	P=1.000	P=1.000	P=0.104
HISTCONT ALL RTES	P=0.117	P=1.000	P=1.000	P=0.037*
CURR VS HC SAME RTE	P=0.724			
CURR VS HC ALL RTES	P=0.619			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	5/47 (11%)	8/48 (17%)	3/45 (7%)	8/48 (17%)
POLY-3 RATE (b)	5/42.44	8/40.48	3/37.77	8/40.64
POLY-3 PERCENT (g)	11.8%	19.8%	7.9%	19.7%
TERMINAL (d)	4/28 (14%)	6/24 (25%)	3/26 (12%)	3/18 (17%)
FIRST INCIDENCE	724	535	731 (T)	579
HC TUMORS SAME ROUTE	9/149 (6%)			
HC TUMORS ALL ROUTES	151/1147 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.294	P=0.243	P=0.422N	P=0.245
POLY 1.5	P=0.307	P=0.262	P=0.406N	P=0.259
POLY 6	P=0.273	P=0.219	P=0.435N	P=0.224
COCH-ARM / FISHERS	P=0.337	P=0.290	P=0.382N	P=0.290
MAX-ISO-POLY-3	P=0.255	P=0.165	P=0.294N	P=0.167
HISTCONT SAME RTE	P=0.091	P=0.049*	P=1.000	P=0.049*
HISTCONT ALL RTES	P=0.507	P=0.292	P=1.000	P=0.296
CURR VS HC SAME RTE	P=0.319			
CURR VS HC ALL RTES	P=0.572			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	1/41.64	1/41.39
POLY-3 PERCENT (g)	0%	0%	2.4%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	1/19 (5%)
FIRST INCIDENCE	---	---	715	731 (T)
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	21/1144 (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)			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	1/42.12	1/41.59	0/41.39
POLY-3 PERCENT (g)	0%	2.4%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	639	726	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	3/1144 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	1/42.12	2/41.66	1/41.39
POLY-3 PERCENT (g)	0%	2.4%	4.8%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	1/19 (5%)
FIRST INCIDENCE	---	639	715	731 (T)
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	24/1144 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.328	P=0.485	P=0.218	P=0.482
POLY 1.5	P=0.342	P=0.491	P=0.225	P=0.488
POLY 6	P=0.305	P=0.478	P=0.212	P=0.471
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.230	P=0.158	P=0.076	P=0.158
HISTCONT SAME RTE	P=0.455	P=1.000	P=0.331	P=1.000
HISTCONT ALL RTES	P=0.520	P=1.000	P=0.252	P=1.000
CURR VS HC SAME RTE	P=0.271			
CURR VS HC ALL RTES	P=0.246			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/149 (1%)			
HC TUMORS ALL ROUTES	1/1136 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	1/41.82	0/41.39
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	663	---
HC TUMORS SAME ROUTE	1/149 (1%)			
HC TUMORS ALL ROUTES	1/1136 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.39	0/41.79	1/41.59	2/41.39
POLY-3 PERCENT (g)	2.2%	0%	2.4%	4.8%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	0/29 (0%)	2/19 (11%)
FIRST INCIDENCE	731 (T)	---	726	731 (T)
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	11/1150 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.235	P=0.516N	P=0.741	P=0.468
POLY 1.5	P=0.240	P=0.510N	P=0.748	P=0.480
POLY 6	P=0.227	P=0.525N	P=0.734	P=0.449
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.222	P=0.179N	P=0.475	P=0.263
HISTCONT SAME RTE	P=0.064	P=1.000	P=0.478	P=0.132
HISTCONT ALL RTES	P=0.045*	P=1.000	P=0.481	P=0.047*
CURR VS HC SAME RTE	P=0.448			
CURR VS HC ALL RTES	P=0.491			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	0/41.79	4/42.59	0/41.39
POLY-3 PERCENT (g)	2.2%	0%	9.4%	0%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	2/29 (7%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	---	526	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	25/1150 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.564N	P=0.516N	P=0.159	P=0.518N
POLY 1.5	P=0.552N	P=0.510N	P=0.166	P=0.512N
POLY 6	P=0.587N	P=0.525N	P=0.154	P=0.529N
COCH-ARM / FISHERS	P=0.531N	P=0.500N	P=0.181	P=0.500N
MAX-ISO-POLY-3	P=0.241N	P=0.179N	P=0.079	P=0.181N
HISTCONT SAME RTE	P=0.304	P=1.000	P=0.045*	P=1.000
HISTCONT ALL RTES	P=0.461	P=1.000	P=0.017*	P=1.000
CURR VS HC SAME RTE	P=0.437			
CURR VS HC ALL RTES	P=0.902			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	1/45.39	0/41.79	4/42.59	1/41.39
POLY-3 PERCENT (g)	2.2%	0%	9.4%	2.4%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	2/29 (7%)	1/19 (5%)
FIRST INCIDENCE	731 (T)	---	526	731 (T)
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	27/1150 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.405	P=0.516N	P=0.159	P=0.740
POLY 1.5	P=0.419	P=0.510N	P=0.166	P=0.748
POLY 6	P=0.378	P=0.525N	P=0.154	P=0.727
COCH-ARM / FISHERS	P=0.444	P=0.500N	P=0.181	P=0.753N
MAX-ISO-POLY-3	P=0.190	P=0.179N	P=0.079	P=0.474
HISTCONT SAME RTE	P=0.249	P=1.000	P=0.066	P=1.000
HISTCONT ALL RTES	P=0.330	P=1.000	P=0.019*	P=1.000
CURR VS HC SAME RTE	P=0.840			
CURR VS HC ALL RTES	P=0.842			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	1/50 (2%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	5/45.93	1/41.79	2/41.59	4/41.47
POLY-3 PERCENT (g)	10.9%	2.4%	4.8%	9.7%
TERMINAL (d)	2/30 (7%)	1/26 (4%)	1/29 (3%)	3/19 (16%)
FIRST INCIDENCE	592	731 (T)	726	712
HC TUMORS SAME ROUTE	16/150 (11%)			
HC TUMORS ALL ROUTES	45/1150 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.558	P=0.124N	P=0.258N	P=0.564N
POLY 1.5	P=0.566	P=0.114N	P=0.242N	P=0.540N
POLY 6	P=0.542	P=0.138N	P=0.275N	P=0.602N
COCH-ARM / FISHERS	P=0.580	P=0.102N	P=0.218N	P=0.500N
MAX-ISO-POLY-3	P=0.285N	P=0.065N	P=0.160N	P=0.427N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.270	P=1.000	P=1.000	P=0.144
CURR VS HC SAME RTE	P=0.859			
CURR VS HC ALL RTES	P=0.042*			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	37/50 (74%)	34/50 (68%)	31/50 (62%)	39/50 (78%)
POLY-3 RATE (b)	37/48.33	34/46.08	31/45.10	39/45.76
POLY-3 PERCENT (g)	76.6%	73.8%	68.7%	85.2%
TERMINAL (d)	22/30 (73%)	19/26 (73%)	20/29 (69%)	17/19 (90%)
FIRST INCIDENCE	547	541	423	607
HC TUMORS SAME ROUTE	66/150 (44%)			
HC TUMORS ALL ROUTES	581/1150 (51%)			
STATISTICAL TESTS				
POLY 3	P=0.167	P=0.469N	P=0.260N	P=0.198
POLY 1.5	P=0.210	P=0.411N	P=0.205N	P=0.254
POLY 6	P=0.125	P=0.535N	P=0.333N	P=0.142
COCH-ARM / FISHERS	P=0.328	P=0.330N	P=0.142N	P=0.408
MAX-ISO-POLY-3	P=0.120	P=0.374N	P=0.196N	P=0.136
HISTCONT SAME RTE	P=0.021*	P=0.057	P=0.087	P=0.029*
HISTCONT ALL RTES	P<0.001**	P=0.029*	P=0.093	P<0.001**
CURR VS HC SAME RTE	P=0.009**			
CURR VS HC ALL RTES	P=0.003**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	38/50 (76%)	34/50 (68%)	31/50 (62%)	40/50 (80%)
POLY-3 RATE (b)	38/48.79	34/46.08	31/45.10	40/45.84
POLY-3 PERCENT (g)	77.9%	73.8%	68.7%	87.3%
TERMINAL (d)	22/30 (73%)	19/26 (73%)	20/29 (69%)	17/19 (90%)
FIRST INCIDENCE	547	541	423	607
HC TUMORS SAME ROUTE	73/150 (49%)			
HC TUMORS ALL ROUTES	615/1150 (54%)			
STATISTICAL TESTS				
POLY 3	P=0.135	P=0.408N	P=0.212N	P=0.163
POLY 1.5	P=0.181	P=0.340N	P=0.156N	P=0.229
POLY 6	P=0.093	P=0.491N	P=0.294N	P=0.103
COCH-ARM / FISHERS	P=0.307	P=0.252N	P=0.097N	P=0.405
MAX-ISO-POLY-3	P=0.078	P=0.319N	P=0.158N	P=0.109
HISTCONT SAME RTE	P=0.023*	P=0.084	P=0.134	P=0.034*
HISTCONT ALL RTES	P=0.002**	P=0.049*	P=0.147	P<0.001**
CURR VS HC SAME RTE	P=0.019*			
CURR VS HC ALL RTES	P=0.005**			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	1/41.63
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	669
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	1/1146 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pancreas				
Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	1/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/1144 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	32/50 (64%)	36/49 (73%)	25/49 (51%)	28/49 (57%)
POLY-3 RATE (b)	32/48.41	36/45.36	25/43.65	28/44.25
POLY-3 PERCENT (g)	66.1%	79.4%	57.3%	63.3%
TERMINAL (d)	18/30 (60%)	20/25 (80%)	16/29 (55%)	11/19 (58%)
FIRST INCIDENCE	551	535	514	642
HC TUMORS SAME ROUTE	100/149 (67%)			
HC TUMORS ALL ROUTES	631/1148 (55%)			
STATISTICAL TESTS				
POLY 3	P=0.215N	P=0.105	P=0.252N	P=0.473N
POLY 1.5	P=0.182N	P=0.142	P=0.200N	P=0.420N
POLY 6	P=0.266N	P=0.072	P=0.316N	P=0.541N
COCH-ARM / FISHERS	P=0.124N	P=0.212	P=0.135N	P=0.311N
MAX-ISO-POLY-3	P=0.164N	P=0.072	P=0.198N	P=0.388N
HISTCONT SAME RTE	P=1.000	P=0.179	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.386	P=0.010**	P=1.000	P=0.342
CURR VS HC SAME RTE	P=0.486			
CURR VS HC ALL RTES	P=0.303			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/49 (4%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/45.41	2/41.21	0/40.59	1/40.93
POLY-3 PERCENT (g)	2.2%	4.9%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/25 (0%)	0/29 (0%)	1/19 (5%)
FIRST INCIDENCE	724	661	---	731 (T)
HC TUMORS SAME ROUTE	2/149 (1%)			
HC TUMORS ALL ROUTES	15/1148 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.527N	P=0.466	P=0.522N	P=0.737
POLY 1.5	P=0.519N	P=0.477	P=0.515N	P=0.744
POLY 6	P=0.539N	P=0.453	P=0.529N	P=0.725
COCH-ARM / FISHERS	P=0.505N	P=0.492	P=0.505N	P=0.747
MAX-ISO-POLY-3	P=0.413N	P=0.261	P=0.185N	P=0.471
HISTCONT SAME RTE	P=0.608	P=0.256	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.552	P=0.082	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.843			
CURR VS HC ALL RTES	P=0.702			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	33/50 (66%)	38/49 (78%)	25/49 (51%)	29/49 (59%)
POLY-3 RATE (b)	33/48.44	38/45.78	25/43.65	29/44.25
POLY-3 PERCENT (g)	68.1%	83%	57.3%	65.5%
TERMINAL (d)	18/30 (60%)	20/25 (80%)	16/29 (55%)	12/19 (63%)
FIRST INCIDENCE	551	535	514	642
HC TUMORS SAME ROUTE	102/149 (69%)			
HC TUMORS ALL ROUTES	646/1148 (56%)			
STATISTICAL TESTS				
POLY 3	P=0.191N	P=0.067	P=0.189N	P=0.482N
POLY 1.5	P=0.156N	P=0.092	P=0.146N	P=0.426N
POLY 6	P=0.247N	P=0.049*	P=0.246N	P=0.556N
COCH-ARM / FISHERS	P=0.103N	P=0.146	P=0.095N	P=0.311N
MAX-ISO-POLY-3	P=0.111N	P=0.043*	P=0.145N	P=0.395N
HISTCONT SAME RTE	P=1.000	P=0.084	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.354	P=0.006**	P=1.000	P=0.303
CURR VS HC SAME RTE	P=0.515			
CURR VS HC ALL RTES	P=0.253			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	1/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	2.4%	0%	0%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	6/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	1/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	2.4%	0%	0%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	9/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
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)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.96	1/41.79	1/41.80	0/41.39
POLY-3 PERCENT (g)	4.4%	2.4%	2.4%	0%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	551	731 (T)	670	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	20/1150 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.164N	P=0.533N	P=0.533N	P=0.261N
POLY 1.5	P=0.160N	P=0.519N	P=0.521N	P=0.252N
POLY 6	P=0.171N	P=0.550N	P=0.544N	P=0.276N
COCH-ARM / FISHERS	P=0.153N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.158N	P=0.317N	P=0.316N	P=0.099N
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=0.434			
CURR VS HC ALL RTES	P=0.264			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	2/42.20	2/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	4.7%	4.8%	0%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	2/29 (7%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	613	731 (T)	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	28/1150 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.330N	P=0.475	P=0.469	P=0.518N
POLY 1.5	P=0.318N	P=0.485	P=0.481	P=0.512N
POLY 6	P=0.351N	P=0.462	P=0.459	P=0.529N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.246N	P=0.266	P=0.264	P=0.181N
HISTCONT SAME RTE	P=0.607	P=0.334	P=0.328	P=1.000
HISTCONT ALL RTES	P=0.708	P=0.339	P=0.329	P=1.000
CURR VS HC SAME RTE	P=0.926			
CURR VS HC ALL RTES	P=0.813			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	2/42.20	3/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	4.7%	7.2%	0%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	3/29 (10%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	613	731 (T)	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	34/1150 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.378N	P=0.475	P=0.274	P=0.518N
POLY 1.5	P=0.363N	P=0.485	P=0.286	P=0.512N
POLY 6	P=0.404N	P=0.462	P=0.263	P=0.529N
COCH-ARM / FISHERS	P=0.337N	P=0.500	P=0.309	P=0.500N
MAX-ISO-POLY-3	P=0.207N	P=0.266	P=0.143	P=0.181N
HISTCONT SAME RTE	P=0.518	P=0.334	P=0.128	P=1.000
HISTCONT ALL RTES	P=0.690	P=0.475	P=0.120	P=1.000
CURR VS HC SAME RTE	P=0.926			
CURR VS HC ALL RTES	P=0.663			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	1/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	7/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.96	0/41.79	1/41.80	0/41.39
POLY-3 PERCENT (g)	2.2%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	551	---	670	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	6/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	1/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	2/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	2/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.96	0/41.79	1/41.80	0/41.39
POLY-3 PERCENT (g)	2.2%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	551	---	670	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	12/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.96	0/41.79	1/41.80	0/41.39
POLY-3 PERCENT (g)	2.2%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	551	---	670	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	8/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	1/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	6/48 (13%)	11/50 (22%)
POLY-3 RATE (b)	3/45.39	4/42.25	6/41.15	11/41.95
POLY-3 PERCENT (g)	6.6%	9.5%	14.6%	26.2%
TERMINAL (d)	3/30 (10%)	2/26 (8%)	4/28 (14%)	6/19 (32%)
FIRST INCIDENCE	731 (T)	625	579	669
HC TUMORS SAME ROUTE	10/150 (7%)			
HC TUMORS ALL ROUTES	138/1136 (12%)			
STATISTICAL TESTS				
POLY 3	P=0.004**	P=0.461	P=0.195	P=0.012*
POLY 1.5	P=0.004**	P=0.477	P=0.205	P=0.014*
POLY 6	P=0.003**	P=0.442	P=0.186	P=0.008**
COCH-ARM / FISHERS	P=0.006**	P=0.500	P=0.223	P=0.020*
MAX-ISO-POLY-3	P=0.005**	P=0.318	P=0.121	P=0.007**
HISTCONT SAME RTE	P=0.011*	P=0.415	P=0.062	P=0.026*
HISTCONT ALL RTES	P=0.047*	P=1.000	P=1.000	P=0.011*
CURR VS HC SAME RTE	P=0.810			
CURR VS HC ALL RTES	P=0.163			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	6/50 (12%)	2/48 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/45.39	6/41.79	2/40.61	2/41.62
POLY-3 PERCENT (g)	0%	14.4%	4.9%	4.8%
TERMINAL (d)	0/30 (0%)	6/26 (23%)	1/28 (4%)	1/19 (5%)
FIRST INCIDENCE	---	731 (T)	670	670
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	14/1136 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.474	P=0.011*	P=0.213	P=0.218
POLY 1.5	P=0.499	P=0.013*	P=0.219	P=0.225
POLY 6	P=0.435	P=0.009**	P=0.208	P=0.208
COCH-ARM / FISHERS	P=0.541	P=0.013*	P=0.237	P=0.247
MAX-ISO-POLY-3	P=0.092	P=0.004**	P=0.073	P=0.075
HISTCONT SAME RTE	P=0.217	P=0.029*	P=0.127	P=0.130
HISTCONT ALL RTES	P=0.023*	P<0.001**	P=0.099	P=0.107
CURR VS HC SAME RTE	P=0.350			
CURR VS HC ALL RTES	P=0.360			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	10/50 (20%)	8/48 (17%)	13/50 (26%)
POLY-3 RATE (b)	3/45.39	10/42.25	8/41.38	13/42.18
POLY-3 PERCENT (g)	6.6%	23.7%	19.3%	30.8%
TERMINAL (d)	3/30 (10%)	8/26 (31%)	5/28 (18%)	7/19 (37%)
FIRST INCIDENCE	731 (T)	625	579	669
HC TUMORS SAME ROUTE	11/150 (7%)			
HC TUMORS ALL ROUTES	151/1136 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.006**	P=0.023*	P=0.071	P=0.003**
POLY 1.5	P=0.008**	P=0.028*	P=0.076	P=0.004**
POLY 6	P=0.004**	P=0.019*	P=0.067	P=0.002**
COCH-ARM / FISHERS	P=0.013*	P=0.036*	P=0.087	P=0.006**
MAX-ISO-POLY-3	P=0.004**	P=0.013*	P=0.041*	P=0.002**
HISTCONT SAME RTE	P=0.015*	P=0.029*	P=0.037*	P=0.022*
HISTCONT ALL RTES	P=0.004**	P=0.067	P=0.262	P=0.003**
CURR VS HC SAME RTE	P=0.682			
CURR VS HC ALL RTES	P=0.109			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: Follicular Cell Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/48 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	2/41.83	0/40.38	1/41.50
POLY-3 PERCENT (g)	0%	4.8%	0%	2.4%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/28 (0%)	0/19 (0%)
FIRST INCIDENCE	---	719	---	704
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	7/1136 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.500	P=0.219	(e)	P=0.482
POLY 1.5	P=0.514	P=0.227	(e)	P=0.489
POLY 6	P=0.479	P=0.210	(e)	P=0.472
COCH-ARM / FISHERS	P=0.538	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.331	P=0.076	(e)	P=0.158
HISTCONT SAME RTE	P=0.273	P=0.079	(e)	P=0.238
HISTCONT ALL RTES	P=0.184	P=0.003**	(e)	P=0.302
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.516			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: Follicular Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/48 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	2/41.83	0/40.38	1/41.50
POLY-3 PERCENT (g)	0%	4.8%	0%	2.4%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/28 (0%)	0/19 (0%)
FIRST INCIDENCE	---	719	---	704
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	11/1136 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.500	P=0.219	(e)	P=0.482
POLY 1.5	P=0.514	P=0.227	(e)	P=0.489
POLY 6	P=0.479	P=0.210	(e)	P=0.472
COCH-ARM / FISHERS	P=0.538	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.331	P=0.076	(e)	P=0.158
HISTCONT SAME RTE	P=0.273	P=0.079	(e)	P=0.238
HISTCONT ALL RTES	P=0.411	P=0.032*	(e)	P=0.483
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.452			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Urinary Bladder Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/1149 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	11/50 (22%)	9/50 (18%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	11/46.38	9/43.00	4/42.65	8/42.33
POLY-3 PERCENT (g)	23.7%	20.9%	9.4%	18.9%
TERMINAL (d)	8/30 (27%)	5/26 (19%)	2/29 (7%)	5/19 (26%)
FIRST INCIDENCE	579	610	514	567
HC TUMORS SAME ROUTE	22/150 (15%)			
HC TUMORS ALL ROUTES	183/1150 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.258N	P=0.475N	P=0.062N	P=0.385N
POLY 1.5	P=0.242N	P=0.445N	P=0.055N	P=0.355N
POLY 6	P=0.285N	P=0.511N	P=0.069N	P=0.434N
COCH-ARM / FISHERS	P=0.217N	P=0.402N	P=0.045N*	P=0.306N
MAX-ISO-POLY-3	P=0.207N	P=0.379N	P=0.039N*	P=0.298N
HISTCONT SAME RTE	P=0.473	P=0.151	P=1.000	P=0.350
HISTCONT ALL RTES	P=0.713	P=0.364	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.223			
CURR VS HC ALL RTES	P=0.310			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Uterus				
Sarcoma Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	2/42.11	0/41.39
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	---	---	563	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	5/1150 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.559	(e)	P=0.221	(e)
POLY 1.5	P=0.572	(e)	P=0.227	(e)
POLY 6	P=0.533	(e)	P=0.216	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.254	(e)	P=0.076	(e)
HISTCONT SAME RTE	P=0.551	(e)	P=0.255	(e)
HISTCONT ALL RTES	P=0.194	(e)	P=0.003**	(e)
CURR VS HC SAME RTE	P=0.470			
CURR VS HC ALL RTES	P=0.487			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	11/50 (22%)	9/50 (18%)	6/50 (12%)	8/50 (16%)
POLY-3 RATE (b)	11/46.38	9/43.00	6/43.20	8/42.33
POLY-3 PERCENT (g)	23.7%	20.9%	13.9%	18.9%
TERMINAL (d)	8/30 (27%)	5/26 (19%)	3/29 (10%)	5/19 (26%)
FIRST INCIDENCE	579	610	514	567
HC TUMORS SAME ROUTE	24/150 (16%)			
HC TUMORS ALL ROUTES	187/1150 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.290N	P=0.475N	P=0.179N	P=0.385N
POLY 1.5	P=0.272N	P=0.445N	P=0.165N	P=0.355N
POLY 6	P=0.321N	P=0.511N	P=0.192N	P=0.434N
COCH-ARM / FISHERS	P=0.242N	P=0.402N	P=0.143N	P=0.306N
MAX-ISO-POLY-3	P=0.323N	P=0.379N	P=0.126N	P=0.298N
HISTCONT SAME RTE	P=0.627	P=0.325	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.745	P=0.388	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.355			
CURR VS HC ALL RTES	P=0.345			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	1/41.53
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	697
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	5/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	11/50 (22%)	13/50 (26%)	25/50 (50%)
POLY-3 RATE (b)	10/46.68	11/44.80	13/45.94	25/45.76
POLY-3 PERCENT (g)	21.4%	24.6%	28.3%	54.6%
TERMINAL (d)	3/30 (10%)	4/26 (15%)	3/29 (10%)	8/19 (42%)
FIRST INCIDENCE	631	451	421	395
HC TUMORS SAME ROUTE	48/150 (32%)			
HC TUMORS ALL ROUTES	227/1150 (20%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.457	P=0.300	P<0.001**
POLY 1.5	P<0.001**	P=0.477	P=0.305	P<0.001**
POLY 6	P<0.001**	P=0.426	P=0.297	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.318	P=0.002**
MAX-ISO-POLY-3	P<0.001**	P=0.363	P=0.224	P<0.001**
HISTCONT SAME RTE	P=0.048*	P=1.000	P=1.000	P=0.024*
HISTCONT ALL RTES	P<0.001**	P=0.409	P=0.203	P<0.001**
CURR VS HC SAME RTE	P=0.055			
CURR VS HC ALL RTES	P=0.939			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	1/41.79	1/41.92	0/41.39
POLY-3 PERCENT (g)	0%	2.4%	2.4%	0%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	731 (T)	634	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	2/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	1/41.79	1/41.92	0/41.39
POLY-3 PERCENT (g)	0%	2.4%	2.4%	0%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	731 (T)	634	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	2/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.41	1/42.16	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	725	625	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	3/1150 (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: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	47/50 (94%)	47/50 (94%)	44/50 (88%)	45/50 (90%)
POLY-3 RATE (b)	47/49.51	47/47.98	44/48.53	45/46.90
POLY-3 PERCENT (g)	94.9%	98%	90.7%	96%
TERMINAL (d)	29/30 (97%)	26/26 (100%)	26/29 (90%)	19/19 (100%)
FIRST INCIDENCE	547	535	423	567
HC TUMORS SAME ROUTE	128/150 (85%)			
HC TUMORS ALL ROUTES	1005/1150 (87%)			
STATISTICAL TESTS				
POLY 3	P=0.541N	P=0.380	P=0.325N	P=0.612
POLY 1.5	P=0.443N	P=0.500	P=0.295N	P=0.666N
POLY 6	P=0.570	P=0.284	P=0.345N	P=0.506
COCH-ARM / FISHERS	P=0.233N	P=0.661N	P=0.243N	P=0.357N
MAX-ISO-POLY-3	P=0.354N	P=0.177	P=0.195N	P=0.392
HISTCONT SAME RTE	P=0.167	P=0.064	P=0.459	P=0.103
HISTCONT ALL RTES	P=0.094	P=0.024*	P=1.000	P=0.090
CURR VS HC SAME RTE	P=0.201			
CURR VS HC ALL RTES	P=0.277			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	24/50 (48%)	25/50 (50%)	26/50 (52%)	38/50 (76%)
POLY-3 RATE (b)	24/48.65	25/46.56	26/47.23	38/47.34
POLY-3 PERCENT (g)	49.3%	53.7%	55.1%	80.3%
TERMINAL (d)	8/30 (27%)	13/26 (50%)	12/29 (41%)	15/19 (79%)
FIRST INCIDENCE	547	451	421	395
HC TUMORS SAME ROUTE	75/150 (50%)			
HC TUMORS ALL ROUTES	392/1150 (34%)			
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.413	P=0.361	P<0.001**
POLY 1.5	P<0.001**	P=0.453	P=0.384	P<0.001**
POLY 6	P<0.001**	P=0.350	P=0.336	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.500	P=0.421	P=0.004**
MAX-ISO-POLY-3	P<0.001**	P=0.337	P=0.291	P<0.001**
HISTCONT SAME RTE	P=0.014*	P=1.000	P=0.271	P=0.018*
HISTCONT ALL RTES	P<0.001**	P=0.027*	P=0.017*	P<0.001**
CURR VS HC SAME RTE	P=0.600			
CURR VS HC ALL RTES	P=0.067			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Vinylidene chloride
 CAS Number: 75-35-4

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	49/50 (98%)	49/50 (98%)	47/50 (94%)	49/50 (98%)
POLY-3 RATE (b)	49/50.00	49/49.48	47/49.78	49/49.00
POLY-3 PERCENT (g)	98%	99%	94.4%	100%
TERMINAL (d)	29/30 (97%)	26/26 (100%)	27/29 (93%)	19/19 (100%)
FIRST INCIDENCE	547	451	421	395
HC TUMORS SAME ROUTE	143/150 (95%)			
HC TUMORS ALL ROUTES	1082/1150 (94%)			
STATISTICAL TESTS				
POLY 3	P=0.452	P=0.669	P=0.338N	P=0.506
POLY 1.5	P=0.455	P=0.716	P=0.322N	P=0.529
POLY 6	P=0.466	P=0.591	P=0.367N	P=0.504
COCH-ARM / FISHERS	P=0.556N	P=0.753N	P=0.309N	P=0.753N
MAX-ISO-POLY-3	P=0.249	P=0.322	P=0.172N	P=0.165
HISTCONT SAME RTE	P=0.147	P=0.209	P=1.000	P=0.143
HISTCONT ALL RTES	P=0.057	P=0.080	P=1.000	P=0.033*
CURR VS HC SAME RTE	P=0.512			
CURR VS HC ALL RTES	P=0.349			

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Vinylidene chloride
CAS Number: 75-35-4

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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 ***