

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

F2_R2

C Number: C99013
Lock Date: 03/27/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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HISTORICAL CONTROL STUDIES
From March 2010 report

SAME ROUTE

99027-03 -- Chromium picolinate monohydrate (ORAL FEED)
05174-05 -- Cresols (ORAL FEED)
99007-05 -- Goldenseal root powder (ORAL FEED)
20008-03 -- Milk thistle extract (ORAL FEED)

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)
96011-05 -- Cumene (INHALATION AIR)
97003-07 -- 1,2-Dibromo-2,4-dicyanobutane (SKIN ETHANOL)
99017-05 -- Diethylamine (INHALATION AIR)
88123-05 -- Formamide (GAVAGE WATER)
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)
88006-03 -- alpha-Methylstyrene (INHALATION AIR)
20008-03 -- Milk thistle extract (ORAL FEED)
99023-03 -- beta-Myrcene (GAVAGE CORN OIL)
97008-05 -- Propargyl alcohol (INHALATION AIR)
99020-05 -- Pulegone (GAVAGE CORN OIL)
99032-03 -- Pyrogallol (SKIN ETHANOL)
20114-07 -- Sodium dichromate dihydrate (VI) (ORAL WATER)
93025-07 -- Tetralin (INHALATION AIR)

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HISTORICAL CONTROL STUDIES
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88133-07 -- Trimethylolpropane triacrylate (SKIN ACETONE)
96019-05 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)
96015-05 -- Water disinfection byproducts (Dibromoacetonitrile) (ORAL WATER)

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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
Lung
Pituitary Gland
Testes
Thymus
Thyroid Gland

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF STYRENE-ACRYLONITRILE TRIMER

MALE RATS

Organ

Adrenal Medulla
Pituitary Gland: Pars Distalis or Unspecified Site

Testes
All Organs

FEMALE RATS

Organ

Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

All Organs

Morphology

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

Morphology

Fibroadenoma
Fibroma, Fibroadenoma or Adenoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Adenoma
Carcinoma or Adenoma
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated
Benign Tumors
Malignant Tumors
Malignant and Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	0/45.64	1/43.89	0/47.57
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	1/39 (3%)	0/44 (0%)
FIRST INCIDENCE	---	---	726 (T)	---
HC TUMORS SAME ROUTE	2/200 (1%)			
HC TUMORS ALL ROUTES	15/1298 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.722	(e)	P=0.499	(e)
POLY 1.5	P=0.711	(e)	P=0.498	(e)
POLY 6	P=0.735	(e)	P=0.502	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.400	(e)	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	4/44.10	5/45.64	3/43.89	1/47.57
POLY-3 PERCENT (g)	9.1%	11%	6.8%	2.1%
TERMINAL (d)	4/36 (11%)	5/39 (13%)	3/39 (8%)	1/44 (2%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	726 (T)
HC TUMORS SAME ROUTE	26/199 (13%)			
HC TUMORS ALL ROUTES	183/1295 (14%)			
STATISTICAL TESTS				
POLY 3	P=0.079N	P=0.522	P=0.503N	P=0.157N
POLY 1.5	P=0.086N	P=0.517	P=0.506N	P=0.166N
POLY 6	P=0.071N	P=0.526	P=0.495N	P=0.146N
COCH-ARM / FISHERS	P=0.095N	P=0.500	P=0.500N	P=0.181N
MAX-ISO-POLY-3	P=0.122N	P=0.384	P=0.349N	P=0.078N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	2/45.64	0/43.89	0/47.57
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/36 (0%)	2/39 (5%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	---	726 (T)	---	---
HC TUMORS SAME ROUTE	4/199 (2%)			
HC TUMORS ALL ROUTES	24/1295 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.387N	P=0.245	(e)	(e)
POLY 1.5	P=0.394N	P=0.243	(e)	(e)
POLY 6	P=0.379N	P=0.246	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.258N	P=0.083	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	4/50 (8%)	7/50 (14%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	4/44.10	7/45.64	3/43.89	1/47.57
POLY-3 PERCENT (g)	9.1%	15.3%	6.8%	2.1%
TERMINAL (d)	4/36 (11%)	7/39 (18%)	3/39 (8%)	1/44 (2%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	726 (T)
HC TUMORS SAME ROUTE	31/199 (16%)			
HC TUMORS ALL ROUTES	208/1295 (16%)			
STATISTICAL TESTS				
POLY 3	P=0.052N	P=0.280	P=0.503N	P=0.157N
POLY 1.5	P=0.057N	P=0.277	P=0.506N	P=0.166N
POLY 6	P=0.045N*	P=0.283	P=0.495N	P=0.146N
COCH-ARM / FISHERS	P=0.067N	P=0.262	P=0.500N	P=0.181N
MAX-ISO-POLY-3	P=0.067N	P=0.188	P=0.349N	P=0.078N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Clitoral/Preputial Gland Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/44.10	1/45.64	2/43.89	2/47.57
POLY-3 PERCENT (g)	2.3%	2.2%	4.6%	4.2%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	2/39 (5%)	2/44 (5%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	726 (T)
HC TUMORS SAME ROUTE	7/200 (4%)			
HC TUMORS ALL ROUTES	51/1295 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.367	P=0.753N	P=0.498	P=0.526
POLY 1.5	P=0.354	P=0.755N	P=0.496	P=0.516
POLY 6	P=0.383	P=0.752N	P=0.503	P=0.539
COCH-ARM / FISHERS	P=0.337	P=0.753N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.466	P=0.490N	P=0.279	P=0.309
HISTCONT SAME RTE	P=0.571	P=1.000	P=0.369	P=0.409
HISTCONT ALL RTEs	P=0.546	P=1.000	P=0.349	P=0.388

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/44.10	1/45.64	2/43.89	2/47.57
POLY-3 PERCENT (g)	4.5%	2.2%	4.6%	4.2%
TERMINAL (d)	2/36 (6%)	1/39 (3%)	2/39 (5%)	2/44 (5%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	726 (T)
HC TUMORS SAME ROUTE	11/200 (6%)			
HC TUMORS ALL ROUTES	68/1295 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.553	P=0.488N	P=0.692	P=0.666N
POLY 1.5	P=0.541	P=0.491N	P=0.690	P=0.677N
POLY 6	P=0.569	P=0.486N	P=0.691N	P=0.653N
COCH-ARM / FISHERS	P=0.526	P=0.500N	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.627	P=0.274N	P=0.497	P=0.469N
HISTCONT SAME RTE	P=0.750	P=1.000	P=0.641	P=1.000
HISTCONT ALL RTES	P=0.737	P=1.000	P=0.628	P=1.000

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Intestine Large: Colon/Rectum Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.10	2/46.36	0/43.89	0/47.57
POLY-3 PERCENT (g)	2.3%	4.3%	0%	0%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	726 (T)	474	---	---
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	2/1298 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.179N	P=0.517	P=0.501N	P=0.485N
POLY 1.5	P=0.183N	P=0.513	P=0.502N	P=0.491N
POLY 6	P=0.174N	P=0.522	P=0.498N	P=0.478N
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.182N	P=0.300	P=0.160N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Intestine Large: Colon/Rectum Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.10	2/46.36	0/43.89	0/47.57
POLY-3 PERCENT (g)	2.3%	4.3%	0%	0%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	726 (T)	474	---	---
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	3/1298 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.179N	P=0.517	P=0.501N	P=0.485N
POLY 1.5	P=0.183N	P=0.513	P=0.502N	P=0.491N
POLY 6	P=0.174N	P=0.522	P=0.498N	P=0.478N
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.182N	P=0.300	P=0.160N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.10	1/45.64	1/43.89	3/47.57
POLY-3 PERCENT (g)	2.3%	2.2%	2.3%	6.3%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/39 (3%)	3/44 (7%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	726 (T)
HC TUMORS SAME ROUTE	2/200 (1%)			
HC TUMORS ALL ROUTES	31/1298 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.178	P=0.753N	P=0.760	P=0.333
POLY 1.5	P=0.172	P=0.755N	P=0.758	P=0.322
POLY 6	P=0.187	P=0.752N	P=0.759N	P=0.347
COCH-ARM / FISHERS	P=0.163	P=0.753N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.236	P=0.490N	P=0.498	P=0.182
HISTCONT SAME RTE	P=0.036*	P=0.330	P=0.320	P=0.057
HISTCONT ALL RTES	P=0.272	P=1.000	P=0.628	P=0.206

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	2/45.74	0/43.89	0/47.57
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	---	701	---	---
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	19/1298 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.387N	P=0.245	(e)	(e)
POLY 1.5	P=0.394N	P=0.244	(e)	(e)
POLY 6	P=0.379N	P=0.247	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.259N	P=0.084	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.10	3/45.74	1/43.89	3/47.57
POLY-3 PERCENT (g)	2.3%	6.6%	2.3%	6.3%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	1/39 (3%)	3/44 (7%)
FIRST INCIDENCE	726 (T)	701	726 (T)	726 (T)
HC TUMORS SAME ROUTE	3/200 (2%)			
HC TUMORS ALL ROUTES	49/1298 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.342	P=0.318	P=0.760	P=0.333
POLY 1.5	P=0.330	P=0.316	P=0.758	P=0.322
POLY 6	P=0.358	P=0.321	P=0.759N	P=0.347
COCH-ARM / FISHERS	P=0.313	P=0.309	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.294	P=0.168	P=0.498	P=0.182
HISTCONT SAME RTE	P=0.124	P=0.062	P=0.430	P=0.059
HISTCONT ALL RTES	P=0.342	P=0.200	P=0.628	P=0.220

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	0/45.64	0/43.89	0/47.57
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/200 (0%)			
HC TUMORS ALL ROUTES	5/1298 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.10	0/45.64	0/43.89	0/47.57
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	9/1298 (1%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.10	2/46.36	1/43.89	3/47.57
POLY-3 PERCENT (g)	2.3%	4.3%	2.3%	6.3%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/39 (3%)	3/44 (7%)
FIRST INCIDENCE	726 (T)	474	726 (T)	726 (T)
HC TUMORS SAME ROUTE	3/200 (2%)			
HC TUMORS ALL ROUTES	41/1298 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.258	P=0.517	P=0.760	P=0.333
POLY 1.5	P=0.249	P=0.513	P=0.758	P=0.322
POLY 6	P=0.271	P=0.522	P=0.759N	P=0.347
COCH-ARM / FISHERS	P=0.237	P=0.500	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.270	P=0.300	P=0.498	P=0.182
HISTCONT SAME RTE	P=0.113	P=0.209	P=0.523	P=0.104
HISTCONT ALL RTEs	P=0.312	P=0.375	P=0.628	P=0.220

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.10	2/46.36	1/43.89	3/47.57
POLY-3 PERCENT (g)	2.3%	4.3%	2.3%	6.3%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/39 (3%)	3/44 (7%)
FIRST INCIDENCE	726 (T)	474	726 (T)	726 (T)
HC TUMORS SAME ROUTE	4/200 (2%)			
HC TUMORS ALL ROUTES	47/1298 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.258	P=0.517	P=0.760	P=0.333
POLY 1.5	P=0.249	P=0.513	P=0.758	P=0.322
POLY 6	P=0.271	P=0.522	P=0.759N	P=0.347
COCH-ARM / FISHERS	P=0.237	P=0.500	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.270	P=0.300	P=0.498	P=0.182
HISTCONT SAME RTE	P=0.112	P=0.228	P=0.630	P=0.104
HISTCONT ALL RTES	P=0.312	P=0.375	P=0.628	P=0.220

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.10	2/46.36	1/43.89	3/47.57
POLY-3 PERCENT (g)	2.3%	4.3%	2.3%	6.3%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/39 (3%)	3/44 (7%)
FIRST INCIDENCE	726 (T)	474	726 (T)	726 (T)
HC TUMORS SAME ROUTE	4/200 (2%)			
HC TUMORS ALL ROUTES	51/1298 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.258	P=0.517	P=0.760	P=0.333
POLY 1.5	P=0.249	P=0.513	P=0.758	P=0.322
POLY 6	P=0.271	P=0.522	P=0.759N	P=0.347
COCH-ARM / FISHERS	P=0.237	P=0.500	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.270	P=0.300	P=0.498	P=0.182
HISTCONT SAME RTE	P=0.112	P=0.228	P=0.630	P=0.104
HISTCONT ALL RTEs	P=0.312	P=0.375	P=0.628	P=0.220

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	16/50 (32%)	10/50 (20%)	13/50 (26%)	4/50 (8%)
POLY-3 RATE (b)	16/45.54	10/46.34	13/45.12	4/47.76
POLY-3 PERCENT (g)	35.1%	21.6%	28.8%	8.4%
TERMINAL (d)	12/36 (33%)	8/39 (21%)	10/39 (26%)	3/44 (7%)
FIRST INCIDENCE	523	624	534	677
HC TUMORS SAME ROUTE	51/200 (26%)			
HC TUMORS ALL ROUTES	604/1293 (47%)			
STATISTICAL TESTS				
POLY 3	P=0.003N**	P=0.111N	P=0.337N	P<0.001N**
POLY 1.5	P=0.003N**	P=0.113N	P=0.342N	P=0.002N**
POLY 6	P=0.002N**	P=0.111N	P=0.326N	P<0.001N**
COCH-ARM / FISHERS	P=0.005N**	P=0.127N	P=0.330N	P=0.003N**
MAX-ISO-POLY-3	P=0.002N**	P=0.074N	P=0.260N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	16/50 (32%)	10/50 (20%)	13/50 (26%)	4/50 (8%)
POLY-3 RATE (b)	16/45.54	10/46.34	13/45.12	4/47.76
POLY-3 PERCENT (g)	35.1%	21.6%	28.8%	8.4%
TERMINAL (d)	12/36 (33%)	8/39 (21%)	10/39 (26%)	3/44 (7%)
FIRST INCIDENCE	523	624	534	677
HC TUMORS SAME ROUTE	51/200 (26%)			
HC TUMORS ALL ROUTES	605/1293 (47%)			
STATISTICAL TESTS				
POLY 3	P=0.003N**	P=0.111N	P=0.337N	P<0.001N**
POLY 1.5	P=0.003N**	P=0.113N	P=0.342N	P=0.002N**
POLY 6	P=0.002N**	P=0.111N	P=0.326N	P<0.001N**
COCH-ARM / FISHERS	P=0.005N**	P=0.127N	P=0.330N	P=0.003N**
MAX-ISO-POLY-3	P=0.002N**	P=0.074N	P=0.260N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 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)	4/50 (8%)	5/50 (10%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	4/44.10	5/46.36	4/43.89	5/47.57
POLY-3 PERCENT (g)	9.1%	10.8%	9.1%	10.5%
TERMINAL (d)	4/36 (11%)	3/39 (8%)	4/39 (10%)	5/44 (11%)
FIRST INCIDENCE	726 (T)	617	726 (T)	726 (T)
HC TUMORS SAME ROUTE	13/200 (7%)			
HC TUMORS ALL ROUTES	112/1298 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.510	P=0.531	P=0.641	P=0.547
POLY 1.5	P=0.491	P=0.522	P=0.638	P=0.528
POLY 6	P=0.533	P=0.542	P=0.639N	P=0.570
COCH-ARM / FISHERS	P=0.467	P=0.500	P=0.643N	P=0.500
MAX-ISO-POLY-3	P=0.639	P=0.394	P=0.496	P=0.410
HISTCONT SAME RTE	P=0.443	P=0.335	P=0.476	P=0.348
HISTCONT ALL RTEs	P=0.750	P=0.501	P=0.627	P=0.522

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	7/50 (14%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	5/44.10	7/46.03	7/44.28	5/48.11
POLY-3 PERCENT (g)	11.3%	15.2%	15.8%	10.4%
TERMINAL (d)	5/36 (14%)	6/39 (15%)	6/39 (15%)	4/44 (9%)
FIRST INCIDENCE	726 (T)	617	617	559
HC TUMORS SAME ROUTE	13/200 (7%)			
HC TUMORS ALL ROUTES	113/1298 (9%)			
STATISTICAL TESTS				
POLY 3	P=0.433N	P=0.409	P=0.381	P=0.574N
POLY 1.5	P=0.462N	P=0.402	P=0.375	P=0.597N
POLY 6	P=0.398N	P=0.418	P=0.395	P=0.547N
COCH-ARM / FISHERS	P=0.500N	P=0.380	P=0.380	P=0.630N
MAX-ISO-POLY-3	P=0.488N	P=0.299	P=0.271	P=0.443N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	7/50 (14%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	5/44.10	7/46.03	8/45.14	6/48.11
POLY-3 PERCENT (g)	11.3%	15.2%	17.7%	12.5%
TERMINAL (d)	5/36 (14%)	6/39 (15%)	6/39 (15%)	5/44 (11%)
FIRST INCIDENCE	726 (T)	617	377	559
HC TUMORS SAME ROUTE	17/200 (9%)			
HC TUMORS ALL ROUTES	143/1298 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.547	P=0.409	P=0.290	P=0.561
POLY 1.5	P=0.515	P=0.402	P=0.281	P=0.536
POLY 6	P=0.532N	P=0.418	P=0.305	P=0.590
COCH-ARM / FISHERS	P=0.472	P=0.380	P=0.277	P=0.500
MAX-ISO-POLY-3	P=0.497	P=0.299	P=0.200	P=0.435
HISTCONT SAME RTE	P=0.196	P=0.068	P=0.056	P=0.128
HISTCONT ALL RTES	P=0.583	P=0.375	P=0.242	P=0.551

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	2/44.10	3/45.97	4/43.89	5/47.57
POLY-3 PERCENT (g)	4.5%	6.5%	9.1%	10.5%
TERMINAL (d)	2/36 (6%)	2/39 (5%)	4/39 (10%)	5/44 (11%)
FIRST INCIDENCE	726 (T)	635	726 (T)	726 (T)
HC TUMORS SAME ROUTE	10/200 (5%)			
HC TUMORS ALL ROUTES	67/1298 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.178	P=0.519	P=0.335	P=0.248
POLY 1.5	P=0.166	P=0.514	P=0.332	P=0.235
POLY 6	P=0.193	P=0.524	P=0.341	P=0.265
COCH-ARM / FISHERS	P=0.151	P=0.500	P=0.339	P=0.218
MAX-ISO-POLY-3	P=0.243	P=0.344	P=0.199	P=0.150
HISTCONT SAME RTE	P=0.106	P=0.455	P=0.231	P=0.147
HISTCONT ALL RTEs	P=0.270	P=0.434	P=0.241	P=0.179

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/44.10	1/46.03	1/43.89	0/47.57
POLY-3 PERCENT (g)	4.5%	2.2%	2.3%	0%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	1/39 (3%)	0/44 (0%)
FIRST INCIDENCE	726 (T)	617	726 (T)	---
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	10/1298 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.147N	P=0.485N	P=0.502N	P=0.221N
POLY 1.5	P=0.150N	P=0.489N	P=0.504N	P=0.227N
POLY 6	P=0.142N	P=0.481N	P=0.497N	P=0.213N
COCH-ARM / FISHERS	P=0.153N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.121N	P=0.272N	P=0.282N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	5/50 (10%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	4/44.10	5/46.36	4/43.89	5/47.57
POLY-3 PERCENT (g)	9.1%	10.8%	9.1%	10.5%
TERMINAL (d)	4/36 (11%)	3/39 (8%)	4/39 (10%)	5/44 (11%)
FIRST INCIDENCE	726 (T)	617	726 (T)	726 (T)
HC TUMORS SAME ROUTE	12/200 (6%)			
HC TUMORS ALL ROUTES	83/1298 (6%)			
STATISTICAL TESTS				
POLY 3	P=0.510	P=0.531	P=0.641	P=0.547
POLY 1.5	P=0.491	P=0.522	P=0.638	P=0.528
POLY 6	P=0.533	P=0.542	P=0.639N	P=0.570
COCH-ARM / FISHERS	P=0.467	P=0.500	P=0.643N	P=0.500
MAX-ISO-POLY-3	P=0.639	P=0.394	P=0.496	P=0.410
HISTCONT SAME RTE	P=0.360	P=0.296	P=0.429	P=0.307
HISTCONT ALL RTES	P=0.439	P=0.385	P=0.512	P=0.399

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	4/44.10	4/46.36	4/43.89	5/47.57
POLY-3 PERCENT (g)	9.1%	8.6%	9.1%	10.5%
TERMINAL (d)	4/36 (11%)	2/39 (5%)	4/39 (10%)	5/44 (11%)
FIRST INCIDENCE	726 (T)	617	726 (T)	726 (T)
HC TUMORS SAME ROUTE	11/200 (6%)			
HC TUMORS ALL ROUTES	77/1298 (6%)			
STATISTICAL TESTS				
POLY 3	P=0.454	P=0.616N	P=0.641	P=0.547
POLY 1.5	P=0.437	P=0.624N	P=0.638	P=0.528
POLY 6	P=0.476	P=0.606N	P=0.639N	P=0.570
COCH-ARM / FISHERS	P=0.415	P=0.643N	P=0.643N	P=0.500
MAX-ISO-POLY-3	P=0.618	P=0.470N	P=0.496	P=0.410
HISTCONT SAME RTE	P=0.201	P=0.372	P=0.343	P=0.224
HISTCONT ALL RTES	P=0.408	P=0.507	P=0.481	P=0.372

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	41/50 (82%)	49/50 (98%)	44/50 (88%)	49/50 (98%)
POLY-3 RATE (b)	41/45.84	49/49.43	44/46.10	49/49.02
POLY-3 PERCENT (g)	89.5%	99.1%	95.4%	100%
TERMINAL (d)	34/36 (94%)	39/39 (100%)	38/39 (97%)	44/44 (100%)
FIRST INCIDENCE	614	474	513	559
HC TUMORS SAME ROUTE	183/200 (92%)			
HC TUMORS ALL ROUTES	1053/1298 (81%)			
STATISTICAL TESTS				
POLY 3	P=0.014*	P=0.027*	P=0.212	P=0.014*
POLY 1.5	P=0.009**	P=0.017*	P=0.202	P=0.007**
POLY 6	P=0.037*	P=0.052	P=0.261	P=0.041*
COCH-ARM / FISHERS	P=0.022*	P=0.008**	P=0.288	P=0.008**
MAX-ISO-POLY-3	P=0.002**	P=0.009**	P=0.105	P=0.004**
HISTCONT SAME RTE	P=0.002**	P=0.010**	P=0.133	P=0.004**
HISTCONT ALL RTEs	P=0.002**	P=0.009**	P=0.121	P=0.004**

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Thymus				
Thymoma: Benign, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	2/48 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.57	1/46.20	0/43.89	0/47.57
POLY-3 PERCENT (g)	4.6%	2.2%	0%	0%
TERMINAL (d)	1/35 (3%)	0/39 (0%)	0/39 (0%)	0/44 (0%)
FIRST INCIDENCE	390	553	---	---
HC TUMORS SAME ROUTE	1/184 (1%)			
HC TUMORS ALL ROUTES	2/1219 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.097N	P=0.480N	P=0.235N	P=0.218N
POLY 1.5	P=0.097N	P=0.480N	P=0.235N	P=0.222N
POLY 6	P=0.095N	P=0.478N	P=0.234N	P=0.212N
COCH-ARM / FISHERS	P=0.096N	P=0.485N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.073N	P=0.267N	P=0.076N	P=0.074N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	12/50 (24%)	8/50 (16%)	6/50 (12%)	9/50 (18%)
POLY-3 RATE (b)	12/44.61	8/46.44	6/43.89	9/47.57
POLY-3 PERCENT (g)	26.9%	17.2%	13.7%	18.9%
TERMINAL (d)	9/36 (25%)	5/39 (13%)	6/39 (15%)	9/44 (21%)
FIRST INCIDENCE	645	624	726 (T)	726 (T)
HC TUMORS SAME ROUTE	23/198 (12%)			
HC TUMORS ALL ROUTES	169/1290 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.265N	P=0.194N	P=0.098N	P=0.254N
POLY 1.5	P=0.280N	P=0.203N	P=0.100N	P=0.276N
POLY 6	P=0.248N	P=0.186N	P=0.095N	P=0.230N
COCH-ARM / FISHERS	P=0.296N	P=0.227N	P=0.096N	P=0.312N
MAX-ISO-POLY-3	P=0.169N	P=0.136N	P=0.061N	P=0.189N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	12/50 (24%)	8/50 (16%)	6/50 (12%)	9/50 (18%)
POLY-3 RATE (b)	12/44.61	8/46.44	6/43.89	9/47.57
POLY-3 PERCENT (g)	26.9%	17.2%	13.7%	18.9%
TERMINAL (d)	9/36 (25%)	5/39 (13%)	6/39 (15%)	9/44 (21%)
FIRST INCIDENCE	645	624	726 (T)	726 (T)
HC TUMORS SAME ROUTE	30/198 (15%)			
HC TUMORS ALL ROUTES	198/1290 (15%)			
STATISTICAL TESTS				
POLY 3	P=0.265N	P=0.194N	P=0.098N	P=0.254N
POLY 1.5	P=0.280N	P=0.203N	P=0.100N	P=0.276N
POLY 6	P=0.248N	P=0.186N	P=0.095N	P=0.230N
COCH-ARM / FISHERS	P=0.296N	P=0.227N	P=0.096N	P=0.312N
MAX-ISO-POLY-3	P=0.169N	P=0.136N	P=0.061N	P=0.189N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	15/50 (30%)	7/50 (14%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	15/46.07	7/47.67	5/46.13	3/47.73
POLY-3 PERCENT (g)	32.6%	14.7%	10.8%	6.3%
TERMINAL (d)	7/36 (19%)	2/39 (5%)	1/39 (3%)	2/44 (5%)
FIRST INCIDENCE	614	546	295	684
HC TUMORS SAME ROUTE	72/200 (36%)			
HC TUMORS ALL ROUTES	502/1298 (39%)			
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.034N*	P=0.010N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.036N*	P=0.010N**	P<0.001N**
POLY 6	P<0.001N**	P=0.034N*	P=0.010N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.045N*	P=0.011N*	P=0.002N**
MAX-ISO-POLY-3	P<0.001N**	P=0.021N*	P=0.005N**	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	4/44.10	1/46.01	1/43.89	2/47.57
POLY-3 PERCENT (g)	9.1%	2.2%	2.3%	4.2%
TERMINAL (d)	4/36 (11%)	0/39 (0%)	1/39 (3%)	2/44 (5%)
FIRST INCIDENCE	726 (T)	624	726 (T)	726 (T)
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	32/1298 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.306N	P=0.166N	P=0.180N	P=0.303N
POLY 1.5	P=0.311N	P=0.170N	P=0.182N	P=0.317N
POLY 6	P=0.300N	P=0.162N	P=0.175N	P=0.287N
COCH-ARM / FISHERS	P=0.313N	P=0.181N	P=0.181N	P=0.339N
MAX-ISO-POLY-3	P=0.130N	P=0.080N	P=0.085N	P=0.184N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	4/44.10	1/46.01	1/43.89	2/47.57
POLY-3 PERCENT (g)	9.1%	2.2%	2.3%	4.2%
TERMINAL (d)	4/36 (11%)	0/39 (0%)	1/39 (3%)	2/44 (5%)
FIRST INCIDENCE	726 (T)	624	726 (T)	726 (T)
HC TUMORS SAME ROUTE	1/200 (1%)			
HC TUMORS ALL ROUTES	31/1298 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.306N	P=0.166N	P=0.180N	P=0.303N
POLY 1.5	P=0.311N	P=0.170N	P=0.182N	P=0.317N
POLY 6	P=0.300N	P=0.162N	P=0.175N	P=0.287N
COCH-ARM / FISHERS	P=0.313N	P=0.181N	P=0.181N	P=0.339N
MAX-ISO-POLY-3	P=0.130N	P=0.080N	P=0.085N	P=0.184N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	46/50 (92%)	49/50 (98%)	47/50 (94%)	49/50 (98%)
POLY-3 RATE (b)	46/47.07	49/49.43	47/47.21	49/49.02
POLY-3 PERCENT (g)	97.7%	99.1%	99.6%	100%
TERMINAL (d)	36/36 (100%)	39/39 (100%)	39/39 (100%)	44/44 (100%)
FIRST INCIDENCE	523	474	513	559
HC TUMORS SAME ROUTE	196/200 (98%)			
HC TUMORS ALL ROUTES	1248/1298 (96%)			
STATISTICAL TESTS				
POLY 3	P=0.188	P=0.652	P=0.576	P=0.458
POLY 1.5	P=0.122	P=0.421	P=0.434	P=0.236
POLY 6	P=0.535	P=0.943	P=0.919	P=0.905
COCH-ARM / FISHERS	P=0.194	P=0.181	P=0.500	P=0.181
MAX-ISO-POLY-3	P=0.056	P=0.209	P=0.113	P=0.064
HISTCONT SAME RTE	P=0.068	P=0.274	P=0.145	P=0.079
HISTCONT ALL RTES	P=0.063	P=0.255	P=0.132	P=0.071

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	22/50 (44%)	17/50 (34%)	11/50 (22%)	8/50 (16%)
POLY-3 RATE (b)	22/47.99	17/48.89	11/47.11	8/48.11
POLY-3 PERCENT (g)	45.8%	34.8%	23.4%	16.6%
TERMINAL (d)	11/36 (31%)	8/39 (21%)	5/39 (13%)	6/44 (14%)
FIRST INCIDENCE	390	546	295	621
HC TUMORS SAME ROUTE	105/200 (53%)			
HC TUMORS ALL ROUTES	721/1298 (56%)			
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.183N	P=0.016N*	P<0.001N**
POLY 1.5	P<0.001N**	P=0.187N	P=0.016N*	P<0.001N**
POLY 6	P<0.001N**	P=0.181N	P=0.018N*	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.206N	P=0.016N*	P=0.002N**
MAX-ISO-POLY-3	P<0.001N**	P=0.135N	P=0.010N**	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	49/50 (98%)	50/50 (100%)	49/50 (98%)	49/50 (98%)
POLY-3 RATE (b)	49/49.02	50/50.00	49/49.00	49/49.02
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	36/36 (100%)	39/39 (100%)	39/39 (100%)	44/44 (100%)
FIRST INCIDENCE	390	474	295	559
HC TUMORS SAME ROUTE	200/200 (100%)			
HC TUMORS ALL ROUTES	1286/1298 (99%)			
STATISTICAL TESTS				
POLY 3	P=1.000N	P=1.000	P=1.000	P=1.000
POLY 1.5	P=0.999N	P=1.000	P=1.000	P=1.000
POLY 6	P=1.000	P=1.000	P=1.000	P=1.000
COCH-ARM / FISHERS	P=0.539N	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.347	P=0.161	P=0.167	P=0.439
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/46.50	0/46.78	2/44.45	0/47.99
POLY-3 PERCENT (g)	2.2%	0%	4.5%	0%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	2/37 (5%)	0/46 (0%)
FIRST INCIDENCE	727 (T)	---	727 (T)	---
HC TUMORS SAME ROUTE	3/148 (2%)			
HC TUMORS ALL ROUTES	24/1245 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.451N	P=0.499N	P=0.484	P=0.494N
POLY 1.5	P=0.455N	P=0.498N	P=0.493	P=0.495N
POLY 6	P=0.445N	P=0.502N	P=0.474	P=0.492N
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.327N	P=0.159N	P=0.272	P=0.159N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	---	---	---	7/27 (T)
HC TUMORS SAME ROUTE	2/146 (1%)			
HC TUMORS ALL ROUTES	32/1238 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.203	(e)	(e)	P=0.506
POLY 1.5	P=0.202	(e)	(e)	P=0.505
POLY 6	P=0.205	(e)	(e)	P=0.508
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.135	(e)	(e)	P=0.167
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.50	0/46.78	0/44.45	1/48.40
POLY-3 PERCENT (g)	2.2%	0%	0%	2.1%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	727 (T)	---	---	611
HC TUMORS SAME ROUTE	2/146 (1%)			
HC TUMORS ALL ROUTES	7/1238 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.599	P=0.499N	P=0.509N	P=0.751N
POLY 1.5	P=0.597	P=0.498N	P=0.504N	P=0.754N
POLY 6	P=0.604	P=0.502N	P=0.515N	P=0.748N
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.407N	P=0.159N	P=0.170N	P=0.488N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/46.50	0/46.78	0/44.45	2/48.40
POLY-3 PERCENT (g)	2.2%	0%	0%	4.1%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	---	611
HC TUMORS SAME ROUTE	5/146 (3%)			
HC TUMORS ALL ROUTES	44/1238 (4%)			
STATISTICAL TESTS				
POLY 3	P=0.249	P=0.499N	P=0.509N	P=0.514
POLY 1.5	P=0.247	P=0.498N	P=0.504N	P=0.510
POLY 6	P=0.253	P=0.502N	P=0.515N	P=0.519
COCH-ARM / FISHERS	P=0.246	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.153	P=0.159N	P=0.170N	P=0.296
HISTCONT SAME RTE	P=0.193	(e)	(e)	P=0.398
HISTCONT ALL RTES	P=0.175	(e)	(e)	P=0.371

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Clitoral/Preputial Gland Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/46.50	3/46.78	2/44.45	2/47.99
POLY-3 PERCENT (g)	6.5%	6.4%	4.5%	4.2%
TERMINAL (d)	3/41 (7%)	3/38 (8%)	2/37 (5%)	2/46 (4%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	727 (T)
HC TUMORS SAME ROUTE	26/150 (17%)			
HC TUMORS ALL ROUTES	119/1247 (10%)			
STATISTICAL TESTS				
POLY 3	P=0.363N	P=0.659N	P=0.520N	P=0.486N
POLY 1.5	P=0.365N	P=0.656N	P=0.509N	P=0.489N
POLY 6	P=0.358N	P=0.659	P=0.534N	P=0.481N
COCH-ARM / FISHERS	P=0.371N	P=0.661N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.501N	P=0.496N	P=0.345N	P=0.314N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/46.50	3/46.78	2/44.45	2/47.99
POLY-3 PERCENT (g)	6.5%	6.4%	4.5%	4.2%
TERMINAL (d)	3/41 (7%)	3/38 (8%)	2/37 (5%)	2/46 (4%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	727 (T)
HC TUMORS SAME ROUTE	33/150 (22%)			
HC TUMORS ALL ROUTES	158/1247 (13%)			
STATISTICAL TESTS				
POLY 3	P=0.363N	P=0.659N	P=0.520N	P=0.486N
POLY 1.5	P=0.365N	P=0.656N	P=0.509N	P=0.489N
POLY 6	P=0.358N	P=0.659	P=0.534N	P=0.481N
COCH-ARM / FISHERS	P=0.371N	P=0.661N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.501N	P=0.496N	P=0.345N	P=0.314N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Intestine Large: Colon/Rectum Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.50	0/46.78	0/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	4/1250 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Intestine Large: Colon/Rectum Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	---	---	---	727 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	5/1250 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.203	(e)	(e)	P=0.506
POLY 1.5	P=0.202	(e)	(e)	P=0.505
POLY 6	P=0.205	(e)	(e)	P=0.508
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.135	(e)	(e)	P=0.167
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/46.50	0/46.78	1/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	1/37 (3%)	0/46 (0%)
FIRST INCIDENCE	---	---	727 (T)	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	22/1250 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.709	(e)	P=0.491	(e)
POLY 1.5	P=0.705	(e)	P=0.496	(e)
POLY 6	P=0.716	(e)	P=0.485	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.386	(e)	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.50	0/46.78	0/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	6/1250 (1%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/46.50	0/46.78	1/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	1/37 (3%)	0/46 (0%)
FIRST INCIDENCE	---	---	727 (T)	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	27/1250 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.709	(e)	P=0.491	(e)
POLY 1.5	P=0.705	(e)	P=0.496	(e)
POLY 6	P=0.716	(e)	P=0.485	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.386	(e)	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	4.3%	0%	0%	2.1%
TERMINAL (d)	2/41 (5%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	---	727 (T)
HC TUMORS SAME ROUTE	8/150 (5%)			
HC TUMORS ALL ROUTES	65/1250 (5%)			
STATISTICAL TESTS				
POLY 3	P=0.465N	P=0.236N	P=0.247N	P=0.489N
POLY 1.5	P=0.465N	P=0.235N	P=0.242N	P=0.491N
POLY 6	P=0.464N	P=0.239N	P=0.254N	P=0.486N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.135N	P=0.076N	P=0.086N	P=0.274N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/46.50	0/46.78	1/45.15	1/47.99
POLY-3 PERCENT (g)	4.3%	0%	2.2%	2.1%
TERMINAL (d)	2/41 (5%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	490	727 (T)
HC TUMORS SAME ROUTE	11/150 (7%)			
HC TUMORS ALL ROUTES	90/1250 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.497N	P=0.236N	P=0.510N	P=0.489N
POLY 1.5	P=0.499N	P=0.235N	P=0.504N	P=0.491N
POLY 6	P=0.494N	P=0.239N	P=0.519N	P=0.486N
COCH-ARM / FISHERS	P=0.500N	P=0.247N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.276N	P=0.076N	P=0.292N	P=0.274N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	36/50 (72%)	31/50 (62%)	26/50 (52%)	20/50 (40%)
POLY-3 RATE (b)	36/47.78	31/48.76	26/46.13	20/47.99
POLY-3 PERCENT (g)	75.3%	63.6%	56.4%	41.7%
TERMINAL (d)	31/41 (76%)	24/38 (63%)	20/37 (54%)	20/46 (44%)
FIRST INCIDENCE	566	509	558	727 (T)
HC TUMORS SAME ROUTE	87/150 (58%)			
HC TUMORS ALL ROUTES	655/1250 (52%)			
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.147N	P=0.037N*	P<0.001N**
POLY 1.5	P<0.001N**	P=0.151N	P=0.030N*	P<0.001N**
POLY 6	P<0.001N**	P=0.148N	P=0.048N*	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.198N	P=0.032N*	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.103N	P=0.024N*	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	36/50 (72%)	31/50 (62%)	27/50 (54%)	20/50 (40%)
POLY-3 RATE (b)	36/47.78	31/48.76	27/46.82	20/47.99
POLY-3 PERCENT (g)	75.3%	63.6%	57.7%	41.7%
TERMINAL (d)	31/41 (76%)	24/38 (63%)	20/37 (54%)	20/46 (44%)
FIRST INCIDENCE	566	509	490	727 (T)
HC TUMORS SAME ROUTE	88/150 (59%)			
HC TUMORS ALL ROUTES	670/1250 (54%)			
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.147N	P=0.049N*	P<0.001N**
POLY 1.5	P<0.001N**	P=0.151N	P=0.043N*	P<0.001N**
POLY 6	P<0.001N**	P=0.148N	P=0.058N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.198N	P=0.048N*	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.103N	P=0.032N*	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	36/50 (72%)	31/50 (62%)	27/50 (54%)	21/50 (42%)
POLY-3 RATE (b)	36/47.78	31/48.76	27/46.82	21/47.99
POLY-3 PERCENT (g)	75.3%	63.6%	57.7%	43.8%
TERMINAL (d)	31/41 (76%)	24/38 (63%)	20/37 (54%)	21/46 (46%)
FIRST INCIDENCE	566	509	490	727 (T)
HC TUMORS SAME ROUTE	89/150 (59%)			
HC TUMORS ALL ROUTES	702/1250 (56%)			
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.147N	P=0.049N*	P<0.001N**
POLY 1.5	P<0.001N**	P=0.151N	P=0.043N*	P<0.001N**
POLY 6	P<0.001N**	P=0.148N	P=0.058N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.198N	P=0.048N*	P=0.002N**
MAX-ISO-POLY-3	P<0.001N**	P=0.103N	P=0.032N*	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
OVERALL (a)	22/50 (44%)	12/50 (24%)	19/50 (38%)	9/50 (18%)
POLY-3 RATE (b)	22/47.68	12/48.32	19/46.88	9/48.40
POLY-3 PERCENT (g)	46.1%	24.8%	40.5%	18.6%
TERMINAL (d)	18/41 (44%)	7/38 (18%)	13/37 (35%)	8/46 (17%)
FIRST INCIDENCE	566	509	490	610
HC TUMORS SAME ROUTE	69/149 (46%)			
HC TUMORS ALL ROUTES	682/1247 (55%)			
STATISTICAL TESTS				
POLY 3	P=0.010N**	P=0.022N*	P=0.366N	P=0.003N**
POLY 1.5	P=0.010N**	P=0.022N*	P=0.345N	P=0.003N**
POLY 6	P=0.009N**	P=0.023N*	P=0.392N	P=0.003N**
COCH-ARM / FISHERS	P=0.013N*	P=0.028N*	P=0.342N	P=0.004N**
MAX-ISO-POLY-3	P=0.002N**	P=0.013N*	P=0.293N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	22/50 (44%)	12/50 (24%)	20/50 (40%)	9/50 (18%)
POLY-3 RATE (b)	22/47.68	12/48.32	20/46.88	9/48.40
POLY-3 PERCENT (g)	46.1%	24.8%	42.7%	18.6%
TERMINAL (d)	18/41 (44%)	7/38 (18%)	14/37 (38%)	8/46 (17%)
FIRST INCIDENCE	566	509	490	610
HC TUMORS SAME ROUTE	71/149 (48%)			
HC TUMORS ALL ROUTES	696/1247 (56%)			
STATISTICAL TESTS				
POLY 3	P=0.011N*	P=0.022N*	P=0.447N	P=0.003N**
POLY 1.5	P=0.011N*	P=0.022N*	P=0.424N	P=0.003N**
POLY 6	P=0.010N**	P=0.023N*	P=0.476N	P=0.003N**
COCH-ARM / FISHERS	P=0.014N*	P=0.028N*	P=0.420N	P=0.004N**
MAX-ISO-POLY-3	P=0.003N**	P=0.013N*	P=0.367N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 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)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	2.2%	0%	0%	2.1%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	---	727 (T)
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	21/1250 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.598	P=0.499N	P=0.509N	P=0.753N
POLY 1.5	P=0.596	P=0.498N	P=0.504N	P=0.755N
POLY 6	P=0.601	P=0.502N	P=0.515N	P=0.751N
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.407N	P=0.159N	P=0.170N	P=0.490N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/46.50	0/46.78	1/44.57	1/47.99
POLY-3 PERCENT (g)	0%	0%	2.2%	2.1%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	---	---	698	727 (T)
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	25/1250 (2%)			
STATISTICAL TESTS				
POLY 3	P=0.246	(e)	P=0.492	P=0.506
POLY 1.5	P=0.243	(e)	P=0.496	P=0.505
POLY 6	P=0.251	(e)	P=0.486	P=0.508
COCH-ARM / FISHERS	P=0.236	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.253	(e)	P=0.158	P=0.167
HISTCONT SAME RTE	P=0.321	(e)	P=0.211	P=0.222
HISTCONT ALL RTES	P=0.293	(e)	P=0.188	P=0.199

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/46.50	0/46.78	1/44.57	2/47.99
POLY-3 PERCENT (g)	0%	0%	2.2%	4.2%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	2/46 (4%)
FIRST INCIDENCE	---	---	698	727 (T)
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	31/1250 (3%)			
STATISTICAL TESTS				
POLY 3	P=0.074	(e)	P=0.492	P=0.244
POLY 1.5	P=0.073	(e)	P=0.496	P=0.243
POLY 6	P=0.075	(e)	P=0.486	P=0.247
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.086	(e)	P=0.158	P=0.083
HISTCONT SAME RTE	P=0.108	(e)	P=0.211	P=0.108
HISTCONT ALL RTES	P=0.098	(e)	P=0.188	P=0.095

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	2.2%	0%	0%	2.1%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	---	727 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	7/1250 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.598	P=0.499N	P=0.509N	P=0.753N
POLY 1.5	P=0.596	P=0.498N	P=0.504N	P=0.755N
POLY 6	P=0.601	P=0.502N	P=0.515N	P=0.751N
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.407N	P=0.159N	P=0.170N	P=0.490N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 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)	0/46.50	0/46.78	0/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	2/1250 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	2.2%	0%	0%	2.1%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	---	727 (T)
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	12/1250 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.598	P=0.499N	P=0.509N	P=0.753N
POLY 1.5	P=0.596	P=0.498N	P=0.504N	P=0.755N
POLY 6	P=0.601	P=0.502N	P=0.515N	P=0.751N
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.407N	P=0.159N	P=0.170N	P=0.490N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.50	0/46.78	0/44.45	1/47.99
POLY-3 PERCENT (g)	2.2%	0%	0%	2.1%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	0/37 (0%)	1/46 (2%)
FIRST INCIDENCE	727 (T)	---	---	727 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	9/1250 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.598	P=0.499N	P=0.509N	P=0.753N
POLY 1.5	P=0.596	P=0.498N	P=0.504N	P=0.755N
POLY 6	P=0.601	P=0.502N	P=0.515N	P=0.751N
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.407N	P=0.159N	P=0.170N	P=0.490N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Thymus				
Thymoma: Benign, Malignant, NOS				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/46.50	0/46.78	1/44.45	0/47.99
POLY-3 PERCENT (g)	2.2%	0%	2.3%	0%
TERMINAL (d)	1/41 (2%)	0/38 (0%)	1/37 (3%)	0/46 (0%)
FIRST INCIDENCE	727 (T)	---	727 (T)	---
HC TUMORS SAME ROUTE	0/145 (0%)			
HC TUMORS ALL ROUTES	6/1204 (1%)			
STATISTICAL TESTS				
POLY 3	P=0.402N	P=0.499N	P=0.751	P=0.494N
POLY 1.5	P=0.404N	P=0.498N	P=0.756	P=0.495N
POLY 6	P=0.399N	P=0.502N	P=0.744	P=0.492N
COCH-ARM / FISHERS	P=0.405N	P=0.500N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.255N	P=0.159N	P=0.487	P=0.159N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Thyroid Gland: C-Cell Adenoma				
TUMOR RATES				
OVERALL (a)	6/50 (12%)	5/50 (10%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	6/46.50	5/47.57	6/44.45	6/47.99
POLY-3 PERCENT (g)	12.9%	10.5%	13.5%	12.5%
TERMINAL (d)	6/41 (15%)	3/38 (8%)	6/37 (16%)	6/46 (13%)
FIRST INCIDENCE	727 (T)	509	727 (T)	727 (T)
HC TUMORS SAME ROUTE	9/146 (6%)			
HC TUMORS ALL ROUTES	126/1233 (10%)			
STATISTICAL TESTS				
POLY 3	P=0.531	P=0.484N	P=0.589	P=0.598N
POLY 1.5	P=0.527	P=0.484N	P=0.607	P=0.602N
POLY 6	P=0.539	P=0.488N	P=0.567	P=0.591N
COCH-ARM / FISHERS	P=0.515	P=0.500N	P=0.620N	P=0.620N
MAX-ISO-POLY-3	P=0.657	P=0.360N	P=0.467	P=0.476N
HISTCONT SAME RTE	P=0.121	P=0.284	P=0.157	P=0.171
HISTCONT ALL RTES	P=0.748	P=1.000	P=0.497	P=0.564

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	6/50 (12%)	5/50 (10%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	6/46.50	5/47.57	6/44.45	6/47.99
POLY-3 PERCENT (g)	12.9%	10.5%	13.5%	12.5%
TERMINAL (d)	6/41 (15%)	3/38 (8%)	6/37 (16%)	6/46 (13%)
FIRST INCIDENCE	727 (T)	509	727 (T)	727 (T)
HC TUMORS SAME ROUTE	11/146 (8%)			
HC TUMORS ALL ROUTES	141/1233 (11%)			
STATISTICAL TESTS				
POLY 3	P=0.531	P=0.484N	P=0.589	P=0.598N
POLY 1.5	P=0.527	P=0.484N	P=0.607	P=0.602N
POLY 6	P=0.539	P=0.488N	P=0.567	P=0.591N
COCH-ARM / FISHERS	P=0.515	P=0.500N	P=0.620N	P=0.620N
MAX-ISO-POLY-3	P=0.657	P=0.360N	P=0.467	P=0.476N
HISTCONT SAME RTE	P=0.218	P=0.411	P=0.213	P=0.245
HISTCONT ALL RTES	P=0.769	P=1.000	P=0.590	P=1.000

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	10/50 (20%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	6/47.72	10/47.29	7/45.53	9/49.08
POLY-3 PERCENT (g)	12.6%	21.2%	15.4%	18.3%
TERMINAL (d)	3/41 (7%)	6/38 (16%)	5/37 (14%)	7/46 (15%)
FIRST INCIDENCE	512	666	422	498
HC TUMORS SAME ROUTE	34/150 (23%)			
HC TUMORS ALL ROUTES	219/1250 (18%)			
STATISTICAL TESTS				
POLY 3	P=0.372	P=0.200	P=0.464	P=0.309
POLY 1.5	P=0.367	P=0.208	P=0.485	P=0.306
POLY 6	P=0.378	P=0.188	P=0.437	P=0.313
COCH-ARM / FISHERS	P=0.348	P=0.207	P=0.500	P=0.288
MAX-ISO-POLY-3	P=0.366	P=0.133	P=0.351	P=0.222
HISTCONT SAME RTE	P=0.460	P=0.177	P=0.472	P=0.298
HISTCONT ALL RTES	P=0.426	P=0.158	P=0.445	P=0.271

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	10/50 (20%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	6/47.72	10/47.29	7/45.53	9/49.08
POLY-3 PERCENT (g)	12.6%	21.2%	15.4%	18.3%
TERMINAL (d)	3/41 (7%)	6/38 (16%)	5/37 (14%)	7/46 (15%)
FIRST INCIDENCE	512	666	422	498
HC TUMORS SAME ROUTE	34/150 (23%)			
HC TUMORS ALL ROUTES	224/1250 (18%)			
STATISTICAL TESTS				
POLY 3	P=0.372	P=0.200	P=0.464	P=0.309
POLY 1.5	P=0.367	P=0.208	P=0.485	P=0.306
POLY 6	P=0.378	P=0.188	P=0.437	P=0.313
COCH-ARM / FISHERS	P=0.348	P=0.207	P=0.500	P=0.288
MAX-ISO-POLY-3	P=0.366	P=0.133	P=0.351	P=0.222
HISTCONT SAME RTE	P=0.460	P=0.177	P=0.472	P=0.298
HISTCONT ALL RTES	P=0.426	P=0.158	P=0.445	P=0.271

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL (a)	13/50 (26%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	13/47.17	2/47.47	3/45.80	2/49.08
POLY-3 PERCENT (g)	27.6%	4.2%	6.6%	4.1%
TERMINAL (d)	10/41 (24%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	641	578	547	498
HC TUMORS SAME ROUTE	24/150 (16%)			
HC TUMORS ALL ROUTES	263/1250 (21%)			
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.002N**	P=0.007N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.002N**	P=0.006N**	P<0.001N**
POLY 6	P<0.001N**	P=0.002N**	P=0.008N**	P<0.001N**
COCH-ARM / FISHERS	P=0.002N**	P=0.002N**	P=0.006N**	P=0.002N**
MAX-ISO-POLY-3	P<0.001N**	P<0.001N**	P=0.003N**	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Mesothelioma: Benign, Malignant, NOS				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.50	0/46.78	0/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	5/1250 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Mesothelioma: Malignant				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.50	0/46.78	0/44.45	0/47.99
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/41 (0%)	0/38 (0%)	0/37 (0%)	0/46 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	4/1250 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	42/50 (84%)	37/50 (74%)	39/50 (78%)	34/50 (68%)
POLY-3 RATE (b)	42/49.00	37/48.99	39/48.72	34/49.08
POLY-3 PERCENT (g)	85.7%	75.5%	80.1%	69.3%
TERMINAL (d)	34/41 (83%)	28/38 (74%)	29/37 (78%)	32/46 (70%)
FIRST INCIDENCE	512	509	422	498
HC TUMORS SAME ROUTE	130/150 (87%)			
HC TUMORS ALL ROUTES	1083/1250 (87%)			
STATISTICAL TESTS				
POLY 3	P=0.048N*	P=0.151N	P=0.316N	P=0.041N*
POLY 1.5	P=0.046N*	P=0.135N	P=0.281N	P=0.037N*
POLY 6	P=0.053N	P=0.180N	P=0.372N	P=0.049N*
COCH-ARM / FISHERS	P=0.059N	P=0.163N	P=0.306N	P=0.050N*
MAX-ISO-POLY-3	P=0.036N*	P=0.098N	P=0.228N	P=0.024N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	19/50 (38%)	5/50 (10%)	6/50 (12%)	12/50 (24%)
POLY-3 RATE (b)	19/47.82	5/48.02	6/45.80	12/49.49
POLY-3 PERCENT (g)	39.7%	10.4%	13.1%	24.3%
TERMINAL (d)	15/41 (37%)	0/38 (0%)	3/37 (8%)	9/46 (20%)
FIRST INCIDENCE	512	578	547	498
HC TUMORS SAME ROUTE	52/150 (35%)			
HC TUMORS ALL ROUTES	446/1250 (36%)			
STATISTICAL TESTS				
POLY 3	P=0.170N	P<0.001N**	P=0.003N**	P=0.077N
POLY 1.5	P=0.174N	P<0.001N**	P=0.002N**	P=0.080N
POLY 6	P=0.163N	P<0.001N**	P=0.003N**	P=0.072N
COCH-ARM / FISHERS	P=0.189N	P<0.001N**	P=0.002N**	P=0.097N
MAX-ISO-POLY-3	P=0.003N**	P<0.001N**	P=0.002N**	P=0.052N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 PPM	400 PPM	800 PPM	1600 PPM
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	44/50 (88%)	41/50 (82%)	41/50 (82%)	35/50 (70%)
POLY-3 RATE (b)	44/49.00	41/50.00	41/49.49	35/49.49
POLY-3 PERCENT (g)	89.8%	82%	82.9%	70.7%
TERMINAL (d)	36/41 (88%)	29/38 (76%)	29/37 (78%)	32/46 (70%)
FIRST INCIDENCE	512	509	422	498
HC TUMORS SAME ROUTE	141/150 (94%)			
HC TUMORS ALL ROUTES	1175/1250 (94%)			
STATISTICAL TESTS				
POLY 3	P=0.012N*	P=0.206N	P=0.238N	P=0.015N*
POLY 1.5	P=0.011N*	P=0.209N	P=0.227N	P=0.014N*
POLY 6	P=0.014N*	P=0.206N	P=0.257N	P=0.017N*
COCH-ARM / FISHERS	P=0.016N*	P=0.288N	P=0.288N	P=0.024N*
MAX-ISO-POLY-3	P=0.011N*	P=0.136N	P=0.159N	P=0.008N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
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First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

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) Value of Historical Controls statistic is only calculated when Poly-3 trend is positive and when there is more than one tumor in the treatment groups.
- (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 ***