

TDMS No. 20011 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

1-Bromopropane

CAS Number: 106-94-5

Date Report Requested: 07/09/2008

Time Report Requested: 10:20:06

First Dose M/F: 07/14/03 / 07/14/03

Lab: BNW

C Number: C20011
Lock Date: 06/15/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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HISTORICAL CONTROL STUDIES From October 2007 Report

SAME ROUTE

- 96011-05 -- Cumene (INHALATION AIR)
- 88004-05 -- Divinylbenzene (INHALATION AIR)
- 97006-01 -- Methyl isobutyl ketone (INHALATION AIR)
- 88006-03 -- alpha-Methylstyrene (INHALATION AIR)
- 97008-05 -- Propargyl alcohol (INHALATION AIR)
- 96001-05 -- Stoddard solvent (type IIC) (INHALATION AIR)

ALL ROUTES

- 88138-03 -- Benzophenone (ORAL FEED)
- 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)
- 93020-07 -- Diisopropylcarbodiimide (SKIN ETHANOL)
- 88004-05 -- Divinylbenzene (INHALATION AIR)
- 88123-05 -- Formamide (GAVAGE WATER)
- 95011-07 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)
- 88105-03 -- Isoeugenol (GAVAGE CORN OIL)
- 97006-01 -- Methyl isobutyl ketone (INHALATION AIR)
- 91005-07 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)
- 92012-05 -- 2-Methylimidazole (ORAL FEED)
- 92013-05 -- 4-Methylimidazole (ORAL FEED)
- 88006-03 -- alpha-Methylstyrene (INHALATION AIR)
- 99023-03 -- beta-Myrcene (GAVAGE CORN OIL)
- 97008-05 -- Propargyl alcohol (INHALATION AIR)
- 20114-07 -- Sodium dichromate dihydrate (VI) (ORAL WATER)
- 96001-05 -- Stoddard solvent (type IIC) (INHALATION AIR)

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**HISTORICAL CONTROL STUDIES
From October 2007 Report**

- 96019-05 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)
- 96018-03 -- Water disinfection byproducts (Bromodichloromethane) (ORAL WATER)
- 96017-05 -- Water disinfection byproducts (Dibromoacetic acid) (ORAL WATER)
- 96015-05 -- Water disinfection byproducts (Dibromoacetonitrile) (ORAL WATER)
- 96010-03 -- Water disinfection byproducts (Sodium chlorate) (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
Brain
Clitoral/Preputial Gland
Islets, Pancreatic
Kidney
Liver
Lung
Nose
Ovary
Pituitary Gland
Prostate
Testes
Thymus
Thyroid Gland
Urinary Bladder

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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

1-Bromopropane

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First Dose M/F: 07/14/03 / 07/14/03

Lab: BNW

SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF 1-Bromopropane

MALE RATS

Organ

Clitoral/Preputial Gland
Islets, Pancreatic

Skin

Thyroid Gland: C-Cell

Thyroid Gland: Follicular Cell

All Organs

FEMALE RATS

Organ

Adrenal Cortex
Adrenal Medulla
Clitoral/Preputial Gland

Intestine Large: Colon/Rectum

Mammary Gland

Morphology

Carcinoma or Adenoma
Adenoma
Carcinoma or Adenoma
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma
Fibroma
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma
Keratoacanthoma
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma
Carcinoma
Carcinoma or Adenoma
Adenoma
Carcinoma or Adenoma
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated
Mesothelioma: Benign, Malignant, NOS
Mesothelioma: Malignant

Morphology

Adenoma
Pheochromocytoma: Benign, Complex, Malignant, NOS
Adenoma
Carcinoma or Adenoma
Adenoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma

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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

1-Bromopropane

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Time Report Requested: 10:20:06

First Dose M/F: 07/14/03 / 07/14/03

Lab: BNW

SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF 1-Bromopropane

Skin

Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B),
Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma,
Keratoacanthoma, Trichoepithelioma

All Organs

Benign Tumors
Malignant and Benign Tumors

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Adrenal Cortex
Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.67	0/40.69	1/37.74	0/35.8
POLY-3 PERCENT (g)	2.4%	0%	2.7%	0%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	668	---	729 (T)	---
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	6/1197 (1%)			

STATISTICAL TESTS

POLY 3	P=0.427N	P=0.505N	P=0.739	P=0.530N
POLY 1.5	P=0.418N	P=0.503N	P=0.748	P=0.517N
POLY 6	P=0.441N	P=0.505N	P=0.725	P=0.547N
COCH-ARM / FISHERS	P=0.405N	P=0.500N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.314N	P=0.164N	P=0.472	P=0.195N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Adrenal Medulla
Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	10/50 (20%)	9/50 (18%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	10/41.8	9/41.56	7/38.76	8/37.06
POLY-3 PERCENT (g)	23.9%	21.7%	18.1%	21.6%
TERMINAL (d)	8/23 (35%)	7/26 (27%)	3/18 (17%)	3/13 (23%)
FIRST INCIDENCE	660	585	618	453
HC TUMORS SAME RTE	48/299 (16%)			
HC TUMORS ALL RTES	181/1196 (15%)			

STATISTICAL TESTS

POLY 3	P=0.432N	P=0.506N	P=0.354N	P=0.509N
POLY 1.5	P=0.386N	P=0.507N	P=0.330N	P=0.461N
POLY 6	P=0.496N	P=0.493N	P=0.383N	P=0.572N
COCH-ARM / FISHERS	P=0.328N	P=0.500N	P=0.298N	P=0.398N
MAX-ISO-POLY-3	P=0.533N	P=0.400N	P=0.266N	P=0.405N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS**

TUMOR RATES

OVERALL (a)	11/50 (22%)	10/50 (20%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	11/42.6	10/41.56	8/38.76	10/37.43
POLY-3 PERCENT (g)	25.8%	24.1%	20.6%	26.7%
TERMINAL (d)	8/23 (35%)	8/26 (31%)	4/18 (22%)	4/13 (31%)
FIRST INCIDENCE	429	585	618	453
HC TUMORS SAME RTE	54/299 (18%)			
HC TUMORS ALL RTES	209/1196 (18%)			

STATISTICAL TESTS

POLY 3	P=0.525	P=0.526N	P=0.385N	P=0.566
POLY 1.5	P=0.515N	P=0.520N	P=0.352N	P=0.581N
POLY 6	P=0.454	P=0.521N	P=0.424N	P=0.501
COCH-ARM / FISHERS	P=0.440N	P=0.500N	P=0.306N	P=0.500N
MAX-ISO-POLY-3	P=0.594	P=0.424N	P=0.297N	P=0.465
HISTCONT SAME RTE	P=0.403	P=0.433	P=1.000	P=0.326
HISTCONT ALL RTES	P=0.244	P=0.359	P=0.587	P=0.253

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Clitoral/Preputial Gland
Adenoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	1/50 (2%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	4/41.67	1/40.76	1/37.34	1/36.12
POLY-3 PERCENT (g)	9.6%	2.5%	2.7%	2.8%
TERMINAL (d)	3/23 (13%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	669	711	688	642
HC TUMORS SAME RTE	3/297 (1%)			
HC TUMORS ALL RTES	43/1193 (4%)			

STATISTICAL TESTS

POLY 3	P=0.152N	P=0.184N	P=0.212N	P=0.224N
POLY 1.5	P=0.145N	P=0.183N	P=0.200N	P=0.204N
POLY 6	P=0.164N	P=0.182N	P=0.228N	P=0.251N
COCH-ARM / FISHERS	P=0.136N	P=0.181N	P=0.187N	P=0.181N
MAX-ISO-POLY-3	P=0.133N	P=0.089N	P=0.114N	P=0.127N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Clitoral/Preputial Gland
Carcinoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/41.7	2/40.95	3/38.08	0/35.8
POLY-3 PERCENT (g)	4.8%	4.9%	7.9%	0%
TERMINAL (d)	1/23 (4%)	1/26 (4%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	660	660	575	---
HC TUMORS SAME RTE	3/297 (1%)			
HC TUMORS ALL RTES	16/1193 (1%)			

STATISTICAL TESTS

POLY 3	P=0.257N	P=0.688	P=0.458	P=0.272N
POLY 1.5	P=0.232N	P=0.689	P=0.472	P=0.257N
POLY 6	P=0.294N	P=0.691	P=0.442	P=0.294N
COCH-ARM / FISHERS	P=0.200N	P=0.691N	P=0.490	P=0.247N
MAX-ISO-POLY-3	P=0.207N	P=0.492	P=0.294	P=0.109N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Clitoral/Preputial Gland
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	6/50 (12%)	3/50 (6%)	4/49 (8%)	1/50 (2%)
POLY-3 RATE (b)	6/41.93	3/41.02	4/38.24	1/36.12
POLY-3 PERCENT (g)	14.3%	7.3%	10.5%	2.8%
TERMINAL (d)	4/23 (17%)	1/26 (4%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	660	660	575	642
HC TUMORS SAME RTE	6/297 (2%)			
HC TUMORS ALL RTES	57/1193 (5%)			

STATISTICAL TESTS

POLY 3	P=0.080N	P=0.251N	P=0.428N	P=0.082N
POLY 1.5	P=0.069N	P=0.249N	P=0.409N	P=0.070N
POLY 6	P=0.098N	P=0.248N	P=0.451N	P=0.100N
COCH-ARM / FISHERS	P=0.056N	P=0.243N	P=0.383N	P=0.056N
MAX-ISO-POLY-3	P=0.076N	P=0.155N	P=0.308N	P=0.047N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Intestine Large: Colon/Rectum
Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.44	0/40.69	2/37.74	1/35.98
POLY-3 PERCENT (g)	0%	0%	5.3%	2.8%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	2/18 (11%)	0/13 (0%)
FIRST INCIDENCE	---	---	729 (T)	682
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	2/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.197	(e)	P=0.216	P=0.472
POLY 1.5	P=0.217	(e)	P=0.225	P=0.484
POLY 6	P=0.174	(e)	P=0.205	P=0.457
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.180	(e)	P=0.075	P=0.158
HISTCONT SAME RTE	P=0.065	(e)	P=0.031*	P=0.036*
HISTCONT ALL RTES	P=0.005**	(e)	P=0.002**	P=0.025*

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Islets, Pancreatic
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	5/50 (10%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	0/41.44	5/40.93	4/38.3	5/35.93
POLY-3 PERCENT (g)	0%	12.2%	10.4%	13.9%
TERMINAL (d)	0/23 (0%)	4/26 (15%)	1/18 (6%)	4/13 (31%)
FIRST INCIDENCE	---	666	608	697
HC TUMORS SAME RTE	19/299 (6%)			
HC TUMORS ALL RTES	73/1194 (6%)			

STATISTICAL TESTS

POLY 3	P=0.043*	P=0.029*	P=0.050*	P=0.019*
POLY 1.5	P=0.056	P=0.029*	P=0.054	P=0.024*
POLY 6	P=0.030*	P=0.029*	P=0.045*	P=0.015*
COCH-ARM / FISHERS	P=0.080	P=0.028*	P=0.059	P=0.028*
MAX-ISO-POLY-3	P=0.034*	P=0.009**	P=0.018*	P=0.009**
HISTCONT SAME RTE	P=0.040*	P=0.010**	P=0.020*	P=0.009**
HISTCONT ALL RTES	P=0.038*	P=0.009**	P=0.019*	P=0.009**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Islets, Pancreatic
Carcinoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	3/41.61	7/41.08	5/38.47	3/35.96
POLY-3 PERCENT (g)	7.2%	17%	13%	8.3%
TERMINAL (d)	2/23 (9%)	3/26 (12%)	3/18 (17%)	2/13 (15%)
FIRST INCIDENCE	686	687	578	687
HC TUMORS SAME RTE	14/299 (5%)			
HC TUMORS ALL RTES	27/1194 (2%)			

STATISTICAL TESTS

POLY 3	P=0.516N	P=0.149	P=0.312	P=0.594
POLY 1.5	P=0.467N	P=0.151	P=0.331	P=0.623
POLY 6	P=0.539	P=0.151	P=0.289	P=0.555
COCH-ARM / FISHERS	P=0.401N	P=0.159	P=0.357	P=0.661N
MAX-ISO-POLY-3	P=0.372	P=0.085	P=0.204	P=0.430
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Islets, Pancreatic
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	10/50 (20%)	9/50 (18%)	8/50 (16%)
POLY-3 RATE (b)	3/41.61	10/41.32	9/39.03	8/36.09
POLY-3 PERCENT (g)	7.2%	24.2%	23.1%	22.2%
TERMINAL (d)	2/23 (9%)	5/26 (19%)	4/18 (22%)	6/13 (46%)
FIRST INCIDENCE	686	666	578	687
HC TUMORS SAME RTE	33/299 (11%)			
HC TUMORS ALL RTES	100/1194 (8%)			

STATISTICAL TESTS

POLY 3	P=0.093	P=0.031*	P=0.043*	P=0.057
POLY 1.5	P=0.129	P=0.032*	P=0.050*	P=0.073
POLY 6	P=0.057	P=0.031*	P=0.036*	P=0.040*
COCH-ARM / FISHERS	P=0.192	P=0.036*	P=0.061	P=0.100
MAX-ISO-POLY-3	P=0.071	P=0.015*	P=0.024*	P=0.036*
HISTCONT SAME RTE	P=0.083	P=0.016*	P=0.026*	P=0.041*
HISTCONT ALL RTES	P=0.005**	P=0.015*	P=0.025*	P=0.039*

TDMS No. 20011 - 05
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 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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 1-Bromopropane
 CAS Number: 106-94-5

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Liver
 Hepatocellular Carcinoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.61	1/40.69	0/37.74	0/35.8
POLY-3 PERCENT (g)	4.8%	2.5%	0%	0%
TERMINAL (d)	1/23 (4%)	1/26 (4%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	686	729 (T)	---	---
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	2/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.107N	P=0.508N	P=0.259N	P=0.272N
POLY 1.5	P=0.104N	P=0.506N	P=0.249N	P=0.257N
POLY 6	P=0.112N	P=0.508N	P=0.272N	P=0.293N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.123N	P=0.289N	P=0.097N	P=0.108N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Lung
Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	4/50 (8%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	2/41.44	4/40.99	1/37.74	5/36.47
POLY-3 PERCENT (g)	4.8%	9.8%	2.7%	13.7%
TERMINAL (d)	2/23 (9%)	3/26 (12%)	1/18 (6%)	3/13 (23%)
FIRST INCIDENCE	729 (T)	648	729 (T)	575
HC TUMORS SAME RTE	3/299 (1%)			
HC TUMORS ALL RTES	31/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.162	P=0.331	P=0.533N	P=0.165
POLY 1.5	P=0.182	P=0.332	P=0.518N	P=0.186
POLY 6	P=0.139	P=0.336	P=0.551N	P=0.141
COCH-ARM / FISHERS	P=0.210	P=0.339	P=0.500N	P=0.218
MAX-ISO-POLY-3	P=0.131	P=0.196	P=0.315N	P=0.098
HISTCONT SAME RTE	P=0.020*	P=0.040*	P=0.386	P=0.039*
HISTCONT ALL RTES	P=0.012*	P=0.081	P=1.000	P=0.031*

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Lung
Alveolar/Bronchiolar Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/41.44	1/40.69	2/37.76	1/35.91
POLY-3 PERCENT (g)	2.4%	2.5%	5.3%	2.8%
TERMINAL (d)	1/23 (4%)	1/26 (4%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	725	702
HC TUMORS SAME RTE	3/299 (1%)			
HC TUMORS ALL RTES	15/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.524	P=0.757	P=0.467	P=0.728
POLY 1.5	P=0.552	P=0.758	P=0.482	P=0.742
POLY 6	P=0.486	P=0.759	P=0.449	P=0.710
COCH-ARM / FISHERS	P=0.591	P=0.753N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.555	P=0.494	P=0.262	P=0.461
HISTCONT SAME RTE	P=0.198	P=0.307	P=0.082	P=0.282
HISTCONT ALL RTES	P=0.225	P=0.436	P=0.110	P=0.405

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Lung
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	5/50 (10%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	3/41.44	5/40.99	3/37.76	6/36.58
POLY-3 PERCENT (g)	7.2%	12.2%	8%	16.4%
TERMINAL (d)	3/23 (13%)	4/26 (15%)	2/18 (11%)	3/13 (23%)
FIRST INCIDENCE	729 (T)	648	725	575
HC TUMORS SAME RTE	6/299 (2%)			
HC TUMORS ALL RTES	46/1199 (4%)			

STATISTICAL TESTS

POLY 3	P=0.169	P=0.349	P=0.620	P=0.181
POLY 1.5	P=0.195	P=0.350	P=0.638	P=0.205
POLY 6	P=0.139	P=0.354	P=0.595	P=0.153
COCH-ARM / FISHERS	P=0.233	P=0.357	P=0.661N	P=0.243
MAX-ISO-POLY-3	P=0.176	P=0.225	P=0.454	P=0.115
HISTCONT SAME RTE	P=0.013*	P=0.053	P=0.145	P=0.047*
HISTCONT ALL RTES	P=0.005**	P=0.078	P=0.314	P=0.032*

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.44	0/40.69	0/37.74	0/35.8
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	5/299 (2%)			
HC TUMORS ALL RTES	8/1199 (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)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.05	2/40.69	1/37.9	1/36.03
POLY-3 PERCENT (g)	4.8%	4.9%	2.6%	2.8%
TERMINAL (d)	1/23 (4%)	2/26 (8%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	534	729 (T)	688	670
HC TUMORS SAME RTE	8/299 (3%)			
HC TUMORS ALL RTES	43/1199 (4%)			

STATISTICAL TESTS

POLY 3	P=0.382N	P=0.683	P=0.536N	P=0.554N
POLY 1.5	P=0.363N	P=0.686	P=0.521N	P=0.531N
POLY 6	P=0.408N	P=0.682	P=0.556N	P=0.582N
COCH-ARM / FISHERS	P=0.337N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.520N	P=0.486	P=0.319N	P=0.337N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.05	2/40.69	1/37.9	1/36.03
POLY-3 PERCENT (g)	4.8%	4.9%	2.6%	2.8%
TERMINAL (d)	1/23 (4%)	2/26 (8%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	534	729 (T)	688	670
HC TUMORS SAME RTE	14/299 (5%)			
HC TUMORS ALL RTES	55/1199 (5%)			

STATISTICAL TESTS

POLY 3	P=0.382N	P=0.683	P=0.536N	P=0.554N
POLY 1.5	P=0.363N	P=0.686	P=0.521N	P=0.531N
POLY 6	P=0.408N	P=0.682	P=0.556N	P=0.582N
COCH-ARM / FISHERS	P=0.337N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.520N	P=0.486	P=0.319N	P=0.337N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)
Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.67	0/40.69	1/37.74	2/36.28
POLY-3 PERCENT (g)	2.4%	0%	2.7%	5.5%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	669	---	729 (T)	642
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	3/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.217	P=0.505N	P=0.739	P=0.452
POLY 1.5	P=0.230	P=0.503N	P=0.748	P=0.472
POLY 6	P=0.201	P=0.505N	P=0.725	P=0.427
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.213	P=0.164N	P=0.472	P=0.255
HISTCONT SAME RTE	P=0.031*	(e)	P=0.161	P=0.059
HISTCONT ALL RTES	P<0.001**	(e)	P=0.066	P=0.006**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.67	0/40.69	1/37.74	2/36.28
POLY-3 PERCENT (g)	2.4%	0%	2.7%	5.5%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	669	---	729 (T)	642
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	8/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.217	P=0.505N	P=0.739	P=0.452
POLY 1.5	P=0.230	P=0.503N	P=0.748	P=0.472
POLY 6	P=0.201	P=0.505N	P=0.725	P=0.427
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.213	P=0.164N	P=0.472	P=0.255
HISTCONT SAME RTE	P=0.055	(e)	P=0.228	P=0.074
HISTCONT ALL RTES	P=0.009**	(e)	P=0.185	P=0.021*

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Oral Mucosa Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.67	0/40.69	1/37.74	2/36.28
POLY-3 PERCENT (g)	2.4%	0%	2.7%	5.5%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	669	---	729 (T)	642
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	3/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.217	P=0.505N	P=0.739	P=0.452
POLY 1.5	P=0.230	P=0.503N	P=0.748	P=0.472
POLY 6	P=0.201	P=0.505N	P=0.725	P=0.427
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.213	P=0.164N	P=0.472	P=0.255
HISTCONT SAME RTE	P=0.031*	(e)	P=0.161	P=0.059
HISTCONT ALL RTES	P<0.001**	(e)	P=0.066	P=0.006**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Adenoma**

TUMOR RATES

OVERALL (a)	37/50 (74%)	36/50 (72%)	33/50 (66%)	31/49 (63%)
POLY-3 RATE (b)	37/46.37	36/47.35	33/44.94	31/43.49
POLY-3 PERCENT (g)	79.8%	76%	73.4%	71.3%
TERMINAL (d)	19/23 (83%)	20/26 (77%)	12/18 (67%)	9/13 (69%)
FIRST INCIDENCE	534	505	514	394
HC TUMORS SAME RTE	215/298 (72%)			
HC TUMORS ALL RTES	541/1192 (45%)			

STATISTICAL TESTS

POLY 3	P=0.189N	P=0.421N	P=0.307N	P=0.226N
POLY 1.5	P=0.151N	P=0.464N	P=0.287N	P=0.197N
POLY 6	P=0.264N	P=0.356N	P=0.318N	P=0.284N
COCH-ARM / FISHERS	P=0.122N	P=0.500N	P=0.257N	P=0.175N
MAX-ISO-POLY-3	P=0.270N	P=0.323N	P=0.225N	P=0.160N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	37/50 (74%)	36/50 (72%)	33/50 (66%)	31/49 (63%)
POLY-3 RATE (b)	37/46.37	36/47.35	33/44.94	31/43.49
POLY-3 PERCENT (g)	79.8%	76%	73.4%	71.3%
TERMINAL (d)	19/23 (83%)	20/26 (77%)	12/18 (67%)	9/13 (69%)
FIRST INCIDENCE	534	505	514	394
HC TUMORS SAME RTE	216/298 (73%)			
HC TUMORS ALL RTES	547/1192 (46%)			

STATISTICAL TESTS

POLY 3	P=0.189N	P=0.421N	P=0.307N	P=0.226N
POLY 1.5	P=0.151N	P=0.464N	P=0.287N	P=0.197N
POLY 6	P=0.264N	P=0.356N	P=0.318N	P=0.284N
COCH-ARM / FISHERS	P=0.122N	P=0.500N	P=0.257N	P=0.175N
MAX-ISO-POLY-3	P=0.270N	P=0.323N	P=0.225N	P=0.160N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.44	1/41.17	2/38.4	1/35.8
POLY-3 PERCENT (g)	0%	2.4%	5.2%	2.8%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	0/18 (0%)	1/13 (8%)
FIRST INCIDENCE	---	585	618	729 (T)
HC TUMORS SAME RTE	3/299 (1%)			
HC TUMORS ALL RTES	12/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.297	P=0.499	P=0.220	P=0.471
POLY 1.5	P=0.326	P=0.498	P=0.227	P=0.483
POLY 6	P=0.261	P=0.501	P=0.212	P=0.455
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.242	P=0.158	P=0.075	P=0.158
HISTCONT SAME RTE	P=0.226	P=0.198	P=0.090	P=0.198
HISTCONT ALL RTES	P=0.116	P=0.188	P=0.067	P=0.188

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Basal Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.44	2/40.69	1/37.87	2/35.96
POLY-3 PERCENT (g)	0%	4.9%	2.6%	5.6%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	0/18 (0%)	1/13 (8%)
FIRST INCIDENCE	---	729 (T)	697	687
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	6/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.198	P=0.233	P=0.482	P=0.206
POLY 1.5	P=0.217	P=0.234	P=0.490	P=0.219
POLY 6	P=0.174	P=0.233	P=0.472	P=0.191
COCH-ARM / FISHERS	P=0.245	P=0.247	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.158	P=0.075	P=0.158	P=0.075
HISTCONT SAME RTE	P=0.024*	P=0.026*	P=0.032*	P=0.034*
HISTCONT ALL RTES	P=0.004**	P=0.022*	P=0.176	P=0.023*

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

Skin
 Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	0/41.44	3/41.17	3/38.52	3/35.96
POLY-3 PERCENT (g)	0%	7.3%	7.8%	8.3%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	0/18 (0%)	2/13 (15%)
FIRST INCIDENCE	---	585	618	687
HC TUMORS SAME RTE	4/299 (1%)			
HC TUMORS ALL RTES	25/1199 (2%)			

STATISTICAL TESTS

POLY 3	P=0.111	P=0.117	P=0.105	P=0.094
POLY 1.5	P=0.132	P=0.117	P=0.111	P=0.104
POLY 6	P=0.088	P=0.118	P=0.099	P=0.083
COCH-ARM / FISHERS	P=0.164	P=0.121	P=0.121	P=0.121
MAX-ISO-POLY-3	P=0.112	P=0.037*	P=0.037*	P=0.037*
HISTCONT SAME RTE	P=0.029*	P=0.042*	P=0.042*	P=0.041*
HISTCONT ALL RTES	P=0.010**	P=0.040*	P=0.040*	P=0.039*

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 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%)	7/50 (14%)	9/50 (18%)	10/50 (20%)
POLY-3 RATE (b)	1/41.67	7/41.24	9/39.79	10/37.51
POLY-3 PERCENT (g)	2.4%	17%	22.6%	26.7%
TERMINAL (d)	0/23 (0%)	5/26 (19%)	2/18 (11%)	4/13 (31%)
FIRST INCIDENCE	669	585	488	562
HC TUMORS SAME RTE	15/299 (5%)			
HC TUMORS ALL RTES	112/1199 (9%)			

STATISTICAL TESTS

POLY 3	P=0.003**	P=0.028*	P=0.006**	P=0.002**
POLY 1.5	P=0.005**	P=0.028*	P=0.007**	P=0.002**
POLY 6	P=0.002**	P=0.028*	P=0.005**	P<0.001**
COCH-ARM / FISHERS	P=0.010**	P=0.030*	P=0.008**	P=0.004**
MAX-ISO-POLY-3	P=0.004**	P=0.011*	P=0.002**	P<0.001**
HISTCONT SAME RTE	P=0.004**	P=0.012*	P=0.002**	P<0.001**
HISTCONT ALL RTES	P=0.004**	P=0.011*	P=0.002**	P<0.001**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	5/50 (10%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/42	5/41.56	1/37.89	0/35.8
POLY-3 PERCENT (g)	7.1%	12%	2.6%	0%
TERMINAL (d)	1/23 (4%)	2/26 (8%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	646	560	690	---
HC TUMORS SAME RTE	21/299 (7%)			
HC TUMORS ALL RTES	121/1199 (10%)			

STATISTICAL TESTS

POLY 3	P=0.053N	P=0.349	P=0.342N	P=0.149N
POLY 1.5	P=0.045N*	P=0.351	P=0.326N	P=0.136N
POLY 6	P=0.067N	P=0.353	P=0.365N	P=0.170N
COCH-ARM / FISHERS	P=0.037N*	P=0.357	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.072N	P=0.226	P=0.191N	P=0.065N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	5/50 (10%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/42	5/41.56	2/38.3	0/35.8
POLY-3 PERCENT (g)	7.1%	12%	5.2%	0%
TERMINAL (d)	1/23 (4%)	2/26 (8%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	646	560	614	---
HC TUMORS SAME RTE	26/299 (9%)			
HC TUMORS ALL RTES	146/1199 (12%)			

STATISTICAL TESTS

POLY 3	P=0.075N	P=0.349	P=0.542N	P=0.149N
POLY 1.5	P=0.063N	P=0.351	P=0.524N	P=0.136N
POLY 6	P=0.095N	P=0.353	P=0.566N	P=0.170N
COCH-ARM / FISHERS	P=0.050N*	P=0.357	P=0.500N	P=0.121N
MAX-ISO-POLY-3	P=0.086N	P=0.226	P=0.367N	P=0.065N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	0/41.44	3/40.69	6/39.01	6/37.09
POLY-3 PERCENT (g)	0%	7.4%	15.4%	16.2%
TERMINAL (d)	0/23 (0%)	3/26 (12%)	2/18 (11%)	2/13 (15%)
FIRST INCIDENCE	---	729 (T)	488	562
HC TUMORS SAME RTE	9/299 (3%)			
HC TUMORS ALL RTES	71/1199 (6%)			

STATISTICAL TESTS

POLY 3	P=0.008**	P=0.115	P=0.012*	P=0.010**
POLY 1.5	P=0.010**	P=0.116	P=0.013*	P=0.012*
POLY 6	P=0.005**	P=0.115	P=0.010**	P=0.008**
COCH-ARM / FISHERS	P=0.016*	P=0.121	P=0.013*	P=0.013*
MAX-ISO-POLY-3	P=0.012*	P=0.037*	P=0.004**	P=0.004**
HISTCONT SAME RTE	P=0.013*	P=0.042*	P=0.004**	P=0.004**
HISTCONT ALL RTES	P=0.012*	P=0.040*	P=0.004**	P=0.004**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Lipoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/41.54	0/40.69	1/37.86	1/36.05
POLY-3 PERCENT (g)	4.8%	0%	2.6%	2.8%
TERMINAL (d)	1/23 (4%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	703	---	699	663
HC TUMORS SAME RTE	6/299 (2%)			
HC TUMORS ALL RTES	11/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.521N	P=0.241N	P=0.532N	P=0.549N
POLY 1.5	P=0.512N	P=0.240N	P=0.518N	P=0.529N
POLY 6	P=0.535N	P=0.240N	P=0.551N	P=0.576N
COCH-ARM / FISHERS	P=0.500N	P=0.247N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.348N	P=0.080N	P=0.315N	P=0.333N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/41.67	1/40.76	0/37.74	2/36.06
POLY-3 PERCENT (g)	2.4%	2.5%	0%	5.6%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	0/18 (0%)	1/13 (8%)
FIRST INCIDENCE	669	711	---	659
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	4/1199 (0%)			

STATISTICAL TESTS

POLY 3	P=0.333	P=0.756	P=0.520N	P=0.450
POLY 1.5	P=0.347	P=0.757	P=0.511N	P=0.471
POLY 6	P=0.313	P=0.757	P=0.531N	P=0.422
COCH-ARM / FISHERS	P=0.366	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.255	P=0.493	P=0.182N	P=0.253
HISTCONT SAME RTE	P=0.037*	P=0.086	(e)	P=0.043*
HISTCONT ALL RTES	P=0.006**	P=0.096	(e)	P=0.009**

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

Skin
 Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/41.67	3/40.76	1/37.87	4/36.23
POLY-3 PERCENT (g)	2.4%	7.4%	2.6%	11%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	0/18 (0%)	2/13 (15%)
FIRST INCIDENCE	669	711	697	659
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	9/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.124	P=0.297	P=0.739	P=0.138
POLY 1.5	P=0.140	P=0.299	P=0.749	P=0.154
POLY 6	P=0.105	P=0.296	P=0.727	P=0.118
COCH-ARM / FISHERS	P=0.164	P=0.309	P=0.753N	P=0.181
MAX-ISO-POLY-3	P=0.099	P=0.150	P=0.473	P=0.072
HISTCONT SAME RTE	P=0.012*	P=0.026*	P=0.091	P=0.030*
HISTCONT ALL RTES	P<0.001**	P=0.007**	P=0.249	P=0.003**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	6/50 (12%)	8/50 (16%)
POLY-3 RATE (b)	1/41.67	4/40.76	6/39.01	8/37.35
POLY-3 PERCENT (g)	2.4%	9.8%	15.4%	21.4%
TERMINAL (d)	0/23 (0%)	3/26 (12%)	2/18 (11%)	3/13 (23%)
FIRST INCIDENCE	669	711	488	562
HC TUMORS SAME RTE	11/299 (4%)			
HC TUMORS ALL RTES	91/1199 (8%)			

STATISTICAL TESTS

POLY 3	P=0.006**	P=0.171	P=0.044*	P=0.009**
POLY 1.5	P=0.008**	P=0.173	P=0.049*	P=0.011*
POLY 6	P=0.004**	P=0.170	P=0.038*	P=0.006**
COCH-ARM / FISHERS	P=0.012*	P=0.181	P=0.056	P=0.015*
MAX-ISO-POLY-3	P=0.008**	P=0.081	P=0.021*	P=0.004**
HISTCONT SAME RTE	P=0.009**	P=0.097	P=0.023*	P=0.005**
HISTCONT ALL RTES	P=0.009**	P=0.092	P=0.021*	P=0.004**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	0/41.44	3/40.69	6/39.01	6/37.09
POLY-3 PERCENT (g)	0%	7.4%	15.4%	16.2%
TERMINAL (d)	0/23 (0%)	3/26 (12%)	2/18 (11%)	2/13 (15%)
FIRST INCIDENCE	---	729 (T)	488	562
HC TUMORS SAME RTE	11/299 (4%)			
HC TUMORS ALL RTES	87/1199 (7%)			

STATISTICAL TESTS

POLY 3	P=0.008**	P=0.115	P=0.012*	P=0.010**
POLY 1.5	P=0.010**	P=0.116	P=0.013*	P=0.012*
POLY 6	P=0.005**	P=0.115	P=0.010**	P=0.008**
COCH-ARM / FISHERS	P=0.016*	P=0.121	P=0.013*	P=0.013*
MAX-ISO-POLY-3	P=0.012*	P=0.037*	P=0.004**	P=0.004**
HISTCONT SAME RTE	P=0.013*	P=0.042*	P=0.004**	P=0.004**
HISTCONT ALL RTES	P=0.012*	P=0.040*	P=0.004**	P=0.004**

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin: Sebaceous Gland Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.44	0/40.69	2/38.61	1/36.03
POLY-3 PERCENT (g)	0%	0%	5.2%	2.8%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	---	---	534	670
HC TUMORS SAME RTE	6/299 (2%)			
HC TUMORS ALL RTES	8/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.197	(e)	P=0.221	P=0.472
POLY 1.5	P=0.217	(e)	P=0.228	P=0.484
POLY 6	P=0.172	(e)	P=0.213	P=0.457
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.184	(e)	P=0.075	P=0.158
HISTCONT SAME RTE	P=0.222	(e)	P=0.090	P=0.198
HISTCONT ALL RTES	P=0.129	(e)	P=0.057	P=0.188

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin: Sebaceous Gland
 Carcinoma or Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.44	1/40.69	2/38.61	1/36.03
POLY-3 PERCENT (g)	0%	2.5%	5.2%	2.8%
TERMINAL (d)	0/23 (0%)	1/26 (4%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	---	729 (T)	534	670
HC TUMORS SAME RTE	6/299 (2%)			
HC TUMORS ALL RTES	9/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.301	P=0.496	P=0.221	P=0.472
POLY 1.5	P=0.328	P=0.497	P=0.228	P=0.484
POLY 6	P=0.267	P=0.497	P=0.213	P=0.457
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.242	P=0.158	P=0.075	P=0.158
HISTCONT SAME RTE	P=0.291	P=0.198	P=0.090	P=0.198
HISTCONT ALL RTES	P=0.089	P=0.188	P=0.064	P=0.188

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Testes
Adenoma**

TUMOR RATES

OVERALL (a)	34/50 (68%)	38/50 (76%)	32/50 (64%)	29/50 (58%)
POLY-3 RATE (b)	34/46	38/45.95	32/42.19	29/42.24
POLY-3 PERCENT (g)	73.9%	82.7%	75.9%	68.7%
TERMINAL (d)	17/23 (74%)	22/26 (85%)	18/18 (100%)	8/13 (62%)
FIRST INCIDENCE	501	528	520	500
HC TUMORS SAME RTE	228/299 (76%)			
HC TUMORS ALL RTES	1035/1199 (86%)			

STATISTICAL TESTS

POLY 3	P=0.198N	P=0.204	P=0.516	P=0.371N
POLY 1.5	P=0.139N	P=0.216	P=0.562N	P=0.299N
POLY 6	P=0.284N	P=0.201	P=0.332	P=0.448N
COCH-ARM / FISHERS	P=0.082N	P=0.252	P=0.417N	P=0.204N
MAX-ISO-POLY-3	P=0.215N	P=0.135	P=0.410	P=0.289N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: C-Cell
Adenoma**

TUMOR RATES

OVERALL (a)	5/50 (10%)	4/50 (8%)	3/50 (6%)	3/49 (6%)
POLY-3 RATE (b)	5/42	4/41.36	3/38.99	3/35.5
POLY-3 PERCENT (g)	11.9%	9.7%	7.7%	8.5%
TERMINAL (d)	2/23 (9%)	3/26 (12%)	1/18 (6%)	2/13 (15%)
FIRST INCIDENCE	660	505	488	710
HC TUMORS SAME RTE	20/298 (7%)			
HC TUMORS ALL RTES	151/1185 (13%)			

STATISTICAL TESTS

POLY 3	P=0.356N	P=0.510N	P=0.397N	P=0.451N
POLY 1.5	P=0.326N	P=0.507N	P=0.379N	P=0.415N
POLY 6	P=0.399N	P=0.510N	P=0.423N	P=0.502N
COCH-ARM / FISHERS	P=0.287N	P=0.500N	P=0.357N	P=0.369N
MAX-ISO-POLY-3	P=0.478N	P=0.371N	P=0.271N	P=0.322N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

Thyroid Gland: C-Cell Carcinoma

TUMOR RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	4/41.44	3/40.85	2/38.3	0/35.42
POLY-3 PERCENT (g)	9.7%	7.3%	5.2%	0%
TERMINAL (d)	4/23 (17%)	2/26 (8%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	729 (T)	687	554	---
HC TUMORS SAME RTE	9/298 (3%)			
HC TUMORS ALL RTES	38/1185 (3%)			

STATISTICAL TESTS

POLY 3	P=0.051N	P=0.508N	P=0.373N	P=0.082N
POLY 1.5	P=0.045N*	P=0.507N	P=0.358N	P=0.073N
POLY 6	P=0.060N	P=0.503N	P=0.393N	P=0.094N
COCH-ARM / FISHERS	P=0.038N*	P=0.500N	P=0.339N	P=0.061N
MAX-ISO-POLY-3	P=0.072N	P=0.354N	P=0.236N	P=0.037N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: C-Cell
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)	5/50 (10%)	3/49 (6%)
POLY-3 RATE (b)	9/42	7/41.52	5/39.55	3/35.5
POLY-3 PERCENT (g)	21.4%	16.9%	12.6%	8.5%
TERMINAL (d)	6/23 (26%)	5/26 (19%)	2/18 (11%)	2/13 (15%)
FIRST INCIDENCE	660	505	488	710
HC TUMORS SAME RTE	28/298 (9%)			
HC TUMORS ALL RTES	188/1185 (16%)			

STATISTICAL TESTS

POLY 3	P=0.066N	P=0.400N	P=0.223N	P=0.102N
POLY 1.5	P=0.054N	P=0.400N	P=0.210N	P=0.084N
POLY 6	P=0.086N	P=0.395N	P=0.242N	P=0.131N
COCH-ARM / FISHERS	P=0.042N*	P=0.393N	P=0.194N	P=0.065N
MAX-ISO-POLY-3	P=0.103N	P=0.298N	P=0.151N	P=0.070N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: Follicular Cell
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/41.44	0/40.69	0/37.74	2/35.59
POLY-3 PERCENT (g)	0%	0%	0%	5.6%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	0/18 (0%)	1/13 (8%)
FIRST INCIDENCE	---	---	---	687
HC TUMORS SAME RTE	2/298 (1%)			
HC TUMORS ALL RTES	15/1185 (1%)			

STATISTICAL TESTS

POLY 3	P=0.039*	(e)	(e)	P=0.204
POLY 1.5	P=0.041*	(e)	(e)	P=0.216
POLY 6	P=0.036*	(e)	(e)	P=0.190
COCH-ARM / FISHERS	P=0.045*	(e)	(e)	P=0.242
MAX-ISO-POLY-3	P=0.031*	(e)	(e)	P=0.074
HISTCONT SAME RTE	P=0.036*	(e)	(e)	P=0.078
HISTCONT ALL RTES	P=0.035*	(e)	(e)	P=0.084

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

Thyroid Gland: Follicular Cell Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/41.44	2/40.69	2/38.21	1/35.42
POLY-3 PERCENT (g)	0%	4.9%	5.2%	2.8%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	1/18 (6%)	1/13 (8%)
FIRST INCIDENCE	---	729 (T)	590	729 (T)
HC TUMORS SAME RTE	4/298 (1%)			
HC TUMORS ALL RTES	12/1185 (1%)			

STATISTICAL TESTS

POLY 3	P=0.388	P=0.233	P=0.219	P=0.469
POLY 1.5	P=0.419	P=0.234	P=0.227	P=0.480
POLY 6	P=0.346	P=0.233	P=0.209	P=0.454
COCH-ARM / FISHERS	P=0.462	P=0.247	P=0.247	P=0.495
MAX-ISO-POLY-3	P=0.255	P=0.075	P=0.075	P=0.157
HISTCONT SAME RTE	P=0.306	P=0.091	P=0.090	P=0.196
HISTCONT ALL RTES	P=0.104	P=0.086	P=0.085	P=0.186

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: Follicular Cell
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	3/49 (6%)
POLY-3 RATE (b)	0/41.44	2/40.69	2/38.21	3/35.59
POLY-3 PERCENT (g)	0%	4.9%	5.2%	8.4%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	1/18 (6%)	2/13 (15%)
FIRST INCIDENCE	---	729 (T)	590	687
HC TUMORS SAME RTE	6/298 (2%)			
HC TUMORS ALL RTES	27/1185 (2%)			

STATISTICAL TESTS

POLY 3	P=0.075	P=0.233	P=0.219	P=0.093
POLY 1.5	P=0.086	P=0.234	P=0.227	P=0.102
POLY 6	P=0.062	P=0.233	P=0.209	P=0.082
COCH-ARM / FISHERS	P=0.104	P=0.247	P=0.247	P=0.117
MAX-ISO-POLY-3	P=0.076	P=0.075	P=0.075	P=0.036*
HISTCONT SAME RTE	P=0.045*	P=0.091	P=0.090	P=0.041*
HISTCONT ALL RTES	P=0.035*	P=0.086	P=0.085	P=0.038*

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Zymbal's Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.44	1/40.69	2/38.44	1/36.42
POLY-3 PERCENT (g)	0%	2.5%	5.2%	2.8%
TERMINAL (d)	0/23 (0%)	1/26 (4%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	---	729 (T)	488	527
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	10/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.306	P=0.496	P=0.220	P=0.474
POLY 1.5	P=0.331	P=0.497	P=0.228	P=0.485
POLY 6	P=0.275	P=0.497	P=0.211	P=0.460
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.239	P=0.158	P=0.075	P=0.158
HISTCONT SAME RTE	P=0.155	P=0.198	P=0.075	P=0.198
HISTCONT ALL RTES	P=0.125	P=0.188	P=0.082	P=0.188

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/41.44	1/40.69	2/38.44	2/37.1
POLY-3 PERCENT (g)	0%	2.5%	5.2%	5.4%
TERMINAL (d)	0/23 (0%)	1/26 (4%)	1/18 (6%)	0/13 (0%)
FIRST INCIDENCE	---	729 (T)	488	500
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	11/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.129	P=0.496	P=0.220	P=0.213
POLY 1.5	P=0.142	P=0.497	P=0.228	P=0.223
POLY 6	P=0.114	P=0.497	P=0.211	P=0.200
COCH-ARM / FISHERS	P=0.160	P=0.500	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.158	P=0.158	P=0.075	P=0.075
HISTCONT SAME RTE	P=0.033*	P=0.198	P=0.075	P=0.077
HISTCONT ALL RTES	P=0.016*	P=0.188	P=0.085	P=0.085

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
 Histiocytic Sarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.44	0/40.69	1/37.86	2/36.45
POLY-3 PERCENT (g)	0%	0%	2.6%	5.5%
TERMINAL (d)	0/23 (0%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	---	---	698	562
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	8/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.057	(e)	P=0.482	P=0.209
POLY 1.5	P=0.062	(e)	P=0.490	P=0.220
POLY 6	P=0.051	(e)	P=0.472	P=0.195
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.077	(e)	P=0.158	P=0.075
HISTCONT SAME RTE	P=0.059	(e)	P=0.198	P=0.078
HISTCONT ALL RTES	P=0.018*	(e)	P=0.188	P=0.032*

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

All Organs
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

TUMOR RATES	#	#	#	#
OVERALL (a)	29/50 (58%)	22/50 (44%)	16/50 (32%)	24/50 (48%)
POLY-3 RATE (b)	29/46.29	22/44.17	16/39.88	24/40.08
POLY-3 PERCENT (g)	62.7%	49.8%	40.1%	59.9%
TERMINAL (d)	13/23 (57%)	10/26 (39%)	8/18 (44%)	9/13 (69%)
FIRST INCIDENCE	501	540	578	527
HC TUMORS SAME RTE	145/299 (49%)			
HC TUMORS ALL RTES	465/1199 (39%)			

STATISTICAL TESTS

POLY 3	P=0.429N	P=0.147N	P=0.024N*	P=0.483N
POLY 1.5	P=0.325N	P=0.134N	P=0.013N*	P=0.357N
POLY 6	P=0.513	P=0.163N	P=0.054N	P=0.555
COCH-ARM / FISHERS	P=0.214N	P=0.115N	P=0.008N**	P=0.212N
MAX-ISO-POLY-3	P=0.196N	P=0.107N	P=0.020N*	P=0.397N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
 Mesothelioma: Benign, Malignant, NOS**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/41.44	2/40.69	2/38.36	4/37.07
POLY-3 PERCENT (g)	0%	4.9%	5.2%	10.8%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	0/18 (0%)	1/13 (8%)
FIRST INCIDENCE	---	729 (T)	536	394
HC TUMORS SAME RTE	7/299 (2%)			
HC TUMORS ALL RTES	35/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.031*	P=0.233	P=0.220	P=0.046*
POLY 1.5	P=0.036*	P=0.234	P=0.227	P=0.052
POLY 6	P=0.025*	P=0.233	P=0.210	P=0.040*
COCH-ARM / FISHERS	P=0.044*	P=0.247	P=0.247	P=0.059
MAX-ISO-POLY-3	P=0.029*	P=0.075	P=0.075	P=0.018*
HISTCONT SAME RTE	P=0.034*	P=0.091	P=0.090	P=0.020*
HISTCONT ALL RTES	P=0.027*	P=0.086	P=0.085	P=0.019*

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
 Mesothelioma: Malignant**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/41.44	2/40.69	2/38.36	4/37.07
POLY-3 PERCENT (g)	0%	4.9%	5.2%	10.8%
TERMINAL (d)	0/23 (0%)	2/26 (8%)	0/18 (0%)	1/13 (8%)
FIRST INCIDENCE	---	729 (T)	536	394
HC TUMORS SAME RTE	7/299 (2%)			
HC TUMORS ALL RTES	34/1199 (3%)			

STATISTICAL TESTS

POLY 3	P=0.031*	P=0.233	P=0.220	P=0.046*
POLY 1.5	P=0.036*	P=0.234	P=0.227	P=0.052
POLY 6	P=0.025*	P=0.233	P=0.210	P=0.040*
COCH-ARM / FISHERS	P=0.044*	P=0.247	P=0.247	P=0.059
MAX-ISO-POLY-3	P=0.029*	P=0.075	P=0.075	P=0.018*
HISTCONT SAME RTE	P=0.034*	P=0.091	P=0.090	P=0.020*
HISTCONT ALL RTES	P=0.028*	P=0.086	P=0.085	P=0.019*

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Osteosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.72	0/40.69	0/37.74	0/35.8
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	1/23 (4%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	653	---	---	---
HC TUMORS SAME RTE	4/299 (1%)			
HC TUMORS ALL RTES	11/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.110N	P=0.242N	P=0.260N	P=0.272N
POLY 1.5	P=0.111N	P=0.241N	P=0.250N	P=0.257N
POLY 6	P=0.110N	P=0.242N	P=0.274N	P=0.294N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.064N	P=0.081N	P=0.097N	P=0.109N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.72	0/40.69	0/37.74	0/35.8
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	1/23 (4%)	0/26 (0%)	0/18 (0%)	0/13 (0%)
FIRST INCIDENCE	653	---	---	---
HC TUMORS SAME RTE	4/299 (1%)			
HC TUMORS ALL RTES	13/1199 (1%)			

STATISTICAL TESTS

POLY 3	P=0.110N	P=0.242N	P=0.260N	P=0.272N
POLY 1.5	P=0.111N	P=0.241N	P=0.250N	P=0.257N
POLY 6	P=0.110N	P=0.242N	P=0.274N	P=0.294N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.064N	P=0.081N	P=0.097N	P=0.109N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	48/50 (96%)	49/50 (98%)	47/50 (94%)	48/50 (96%)
POLY-3 RATE (b)	48/49.21	49/49.08	47/48.08	48/49.04
POLY-3 PERCENT (g)	97.6%	99.8%	97.8%	97.9%
TERMINAL (d)	23/23 (100%)	26/26 (100%)	18/18 (100%)	13/13 (100%)
FIRST INCIDENCE	429	505	488	394
HC TUMORS SAME RTE	293/299 (98%)			
HC TUMORS ALL RTES	1166/1199 (97%)			

STATISTICAL TESTS

POLY 3	P=0.611N	P=0.444	P=0.794	P=0.760
POLY 1.5	P=0.547N	P=0.410	P=0.691N	P=0.717
POLY 6	P=0.728N	P=0.683	P=0.870	P=0.871
COCH-ARM / FISHERS	P=0.500N	P=0.500	P=0.500N	P=0.691N
MAX-ISO-POLY-3	P=0.501	P=0.098	P=0.464	P=0.442
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	38/50 (76%)	33/50 (66%)	32/50 (64%)	32/50 (64%)
POLY-3 RATE (b)	38/47.87	33/45.5	32/43.53	32/42.96
POLY-3 PERCENT (g)	79.4%	72.5%	73.5%	74.5%
TERMINAL (d)	18/23 (78%)	19/26 (73%)	15/18 (83%)	11/13 (85%)
FIRST INCIDENCE	429	316	488	394
HC TUMORS SAME RTE	193/299 (65%)			
HC TUMORS ALL RTES	686/1199 (57%)			

STATISTICAL TESTS

POLY 3	P=0.366N	P=0.287N	P=0.328N	P=0.373N
POLY 1.5	P=0.258N	P=0.239N	P=0.228N	P=0.255N
POLY 6	P=0.523N	P=0.365N	P=0.504N	P=0.536N
COCH-ARM / FISHERS	P=0.148N	P=0.189N	P=0.138N	P=0.138N
MAX-ISO-POLY-3	P=0.407N	P=0.213N	P=0.248N	P=0.287N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Males			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
Malignant and Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	48/50 (96%)	49/50 (98%)
POLY-3 RATE (b)	50/50	50/50	48/48.58	49/49.29
POLY-3 PERCENT (g)	100%	100%	98.8%	99.4%
TERMINAL (d)	23/23 (100%)	26/26 (100%)	18/18 (100%)	13/13 (100%)
FIRST INCIDENCE	429	316	488	394
HC TUMORS SAME RTE	299/299 (100%)			
HC TUMORS ALL RTES	1195/1199 (100%)			

STATISTICAL TESTS

POLY 3	P=0.592N	(e)	P=0.826N	P=0.992N
POLY 1.5	P=0.360N	(e)	P=0.463N	P=0.800N
POLY 6	P=0.997N	(e)	P=1.000N	P=1.000N
COCH-ARM / FISHERS	P=0.246N	(e)	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.189N	(e)	P=0.092N	P=0.161N
HISTCONT SAME RTE	(h)	(e)	(h)	(h)
HISTCONT ALL RTES	(h)	(e)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Adrenal Cortex
Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/45.43	3/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	6.6%	6.9%	0%	0%
TERMINAL (d)	2/34 (6%)	3/33 (9%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	701	730 (T)	---	---
HC TUMORS SAME RTE	2/300 (1%)			
HC TUMORS ALL RTES	17/1098 (2%)			

STATISTICAL TESTS

POLY 3	P=0.042N*	P=0.645	P=0.131N	P=0.156N
POLY 1.5	P=0.039N*	P=0.652	P=0.126N	P=0.143N
POLY 6	P=0.046N*	P=0.638	P=0.138N	P=0.172N
COCH-ARM / FISHERS	P=0.034N*	P=0.661N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.065N	P=0.481	P=0.048N*	P=0.071N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Adrenal Medulla
Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	2/50 (4%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.31	4/43.93	1/42.9	0/37.64
POLY-3 PERCENT (g)	4.4%	9.1%	2.3%	0%
TERMINAL (d)	2/34 (6%)	3/33 (9%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	687	607	---
HC TUMORS SAME RTE	10/299 (3%)			
HC TUMORS ALL RTES	27/1091 (3%)			

STATISTICAL TESTS

POLY 3	P=0.118N	P=0.323	P=0.519N	P=0.281N
POLY 1.5	P=0.106N	P=0.329	P=0.511N	P=0.266N
POLY 6	P=0.131N	P=0.318	P=0.528N	P=0.297N
COCH-ARM / FISHERS	P=0.086N	P=0.339	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.130N	P=0.193	P=0.301N	P=0.117N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS**

TUMOR RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/45.52	4/43.93	1/42.9	0/37.64
POLY-3 PERCENT (g)	6.6%	9.1%	2.3%	0%
TERMINAL (d)	2/34 (6%)	3/33 (9%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	677	687	607	---
HC TUMORS SAME RTE	13/299 (4%)			
HC TUMORS ALL RTES	36/1091 (3%)			

STATISTICAL TESTS

POLY 3	P=0.062N	P=0.481	P=0.327N	P=0.156N
POLY 1.5	P=0.055N	P=0.488	P=0.318N	P=0.143N
POLY 6	P=0.071N	P=0.473	P=0.337N	P=0.172N
COCH-ARM / FISHERS	P=0.044N*	P=0.500	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.097N	P=0.332	P=0.176N	P=0.071N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Clitoral/Preputial Gland
Adenoma**

TUMOR RATES

OVERALL (a)	3/49 (6%)	9/50 (18%)	3/49 (6%)	3/49 (6%)
POLY-3 RATE (b)	3/44.52	9/43.81	3/41.62	3/37.66
POLY-3 PERCENT (g)	6.7%	20.5%	7.2%	8%
TERMINAL (d)	2/33 (6%)	8/33 (24%)	3/30 (10%)	1/24 (4%)
FIRST INCIDENCE	677	719	730 (T)	627
HC TUMORS SAME RTE	5/299 (2%)			
HC TUMORS ALL RTES	104/1096 (10%)			

STATISTICAL TESTS

POLY 3	P=0.390N	P=0.054	P=0.631	P=0.583
POLY 1.5	P=0.355N	P=0.059	P=0.644	P=0.608
POLY 6	P=0.428N	P=0.050*	P=0.615	P=0.558
COCH-ARM / FISHERS	P=0.283N	P=0.065	P=0.661N	P=0.661N
MAX-ISO-POLY-3	P=0.338N	P=0.029*	P=0.466	P=0.421
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Clitoral/Preputial Gland
Carcinoma**

TUMOR RATES

OVERALL (a)	1/49 (2%)	3/50 (6%)	2/49 (4%)	1/49 (2%)
POLY-3 RATE (b)	1/44.31	3/44.12	2/41.62	1/37.15
POLY-3 PERCENT (g)	2.3%	6.8%	4.8%	2.7%
TERMINAL (d)	1/33 (3%)	2/33 (6%)	2/30 (7%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	632	730 (T)	724
HC TUMORS SAME RTE	5/299 (2%)			
HC TUMORS ALL RTES	29/1096 (3%)			

STATISTICAL TESTS

POLY 3	P=0.556N	P=0.303	P=0.478	P=0.720
POLY 1.5	P=0.531N	P=0.307	P=0.487	P=0.733
POLY 6	P=0.583N	P=0.301	P=0.468	P=0.706
COCH-ARM / FISHERS	P=0.477N	P=0.316	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.476	P=0.154	P=0.268	P=0.453
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Clitoral/Preputial Gland
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	4/49 (8%)	12/50 (24%)	4/49 (8%)	4/49 (8%)
POLY-3 RATE (b)	4/44.52	12/44.16	4/41.62	4/37.68
POLY-3 PERCENT (g)	9%	27.2%	9.6%	10.6%
TERMINAL (d)	3/33 (9%)	10/33 (30%)	4/30 (13%)	1/24 (4%)
FIRST INCIDENCE	677	632	730 (T)	627
HC TUMORS SAME RTE	10/299 (3%)			
HC TUMORS ALL RTES	133/1096 (12%)			

STATISTICAL TESTS

POLY 3	P=0.353N	P=0.023*	P=0.606	P=0.549
POLY 1.5	P=0.312N	P=0.025*	P=0.621	P=0.578
POLY 6	P=0.396N	P=0.021*	P=0.587	P=0.520
COCH-ARM / FISHERS	P=0.234N	P=0.030*	P=0.643N	P=0.643N
MAX-ISO-POLY-3	P=0.274N	P=0.012*	P=0.461	P=0.408
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Intestine Large: Colon/Rectum
 Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	0/45.31	1/43.77	2/42.9	5/37.68
POLY-3 PERCENT (g)	0%	2.3%	4.7%	13.3%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	1/30 (3%)	4/24 (17%)
FIRST INCIDENCE	---	730 (T)	607	719
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	2/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.004**	P=0.493	P=0.225	P=0.018*
POLY 1.5	P=0.005**	P=0.496	P=0.230	P=0.021*
POLY 6	P=0.003**	P=0.490	P=0.219	P=0.015*
COCH-ARM / FISHERS	P=0.007**	P=0.500	P=0.247	P=0.028*
MAX-ISO-POLY-3	P=0.006**	P=0.158	P=0.076	P=0.009**
HISTCONT SAME RTE	P=0.005**	P=0.023*	P=0.023*	P=0.009**
HISTCONT ALL RTES	P<0.001**	P=0.029*	P=0.002**	P<0.001**

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Islets, Pancreatic
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	2/43.77	1/42.47	0/37.64
POLY-3 PERCENT (g)	0%	4.6%	2.4%	0%
TERMINAL (d)	0/34 (0%)	2/33 (6%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---
HC TUMORS SAME RTE	7/299 (2%)			
HC TUMORS ALL RTES	21/1092 (2%)			

STATISTICAL TESTS

POLY 3	P=0.526N	P=0.229	P=0.487	(e)
POLY 1.5	P=0.504N	P=0.233	P=0.492	(e)
POLY 6	P=0.550N	P=0.226	P=0.481	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.366	P=0.076	P=0.158	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Islets, Pancreatic
Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.31	1/43.77	1/42.47	0/37.64
POLY-3 PERCENT (g)	2.2%	2.3%	2.4%	0%
TERMINAL (d)	1/34 (3%)	1/33 (3%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	---
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	4/1092 (0%)			

STATISTICAL TESTS

POLY 3	P=0.352N	P=0.753	P=0.746	P=0.537N
POLY 1.5	P=0.339N	P=0.756	P=0.752	P=0.525N
POLY 6	P=0.366N	P=0.750	P=0.739	P=0.550N
COCH-ARM / FISHERS	P=0.311N	P=0.753N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.390N	P=0.489	P=0.481	P=0.203N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Islets, Pancreatic
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.31	3/43.77	2/42.47	0/37.64
POLY-3 PERCENT (g)	2.2%	6.9%	4.7%	0%
TERMINAL (d)	1/34 (3%)	3/33 (9%)	2/30 (7%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	---
HC TUMORS SAME RTE	8/299 (3%)			
HC TUMORS ALL RTES	25/1092 (2%)			

STATISTICAL TESTS

POLY 3	P=0.315N	P=0.293	P=0.477	P=0.537N
POLY 1.5	P=0.290N	P=0.298	P=0.487	P=0.525N
POLY 6	P=0.344N	P=0.287	P=0.466	P=0.550N
COCH-ARM / FISHERS	P=0.242N	P=0.309	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.252N	P=0.149	P=0.268	P=0.203N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Liver
Hepatocellular Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/34 (3%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	0/1099 (0%)			

STATISTICAL TESTS

POLY 3	P=0.285N	P=0.507N	P=0.513N	P=0.537N
POLY 1.5	P=0.292N	P=0.504N	P=0.508N	P=0.525N
POLY 6	P=0.278N	P=0.510N	P=0.519N	P=0.550N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.191N	P=0.167N	P=0.174N	P=0.203N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Lung
Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.31	4/44.11	1/42.47	2/38.05
POLY-3 PERCENT (g)	2.2%	9.1%	2.4%	5.3%
TERMINAL (d)	1/34 (3%)	3/33 (9%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	635	730 (T)	627
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	24/1099 (2%)			

STATISTICAL TESTS

POLY 3	P=0.509	P=0.170	P=0.746	P=0.440
POLY 1.5	P=0.537	P=0.174	P=0.752	P=0.458
POLY 6	P=0.479	P=0.167	P=0.739	P=0.420
COCH-ARM / FISHERS	P=0.596	P=0.181	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.408	P=0.081	P=0.481	P=0.249
HISTCONT SAME RTE	P=0.126	P=0.022*	P=0.153	P=0.052
HISTCONT ALL RTES	P=0.382	P=0.093	P=0.609	P=0.308

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Lung
 Alveolar/Bronchiolar Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.45	1/43.93	2/43.72	0/37.64
POLY-3 PERCENT (g)	2.2%	2.3%	4.6%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	694	687	417	---
HC TUMORS SAME RTE	2/299 (1%)			
HC TUMORS ALL RTES	6/1099 (1%)			

STATISTICAL TESTS

POLY 3	P=0.431N	P=0.753	P=0.486	P=0.537N
POLY 1.5	P=0.410N	P=0.756	P=0.492	P=0.525N
POLY 6	P=0.455N	P=0.750	P=0.479	P=0.551N
COCH-ARM / FISHERS	P=0.366N	P=0.753N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.340N	P=0.490	P=0.273	P=0.204N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Lung
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/45.45	5/44.28	3/43.72	2/38.05
POLY-3 PERCENT (g)	4.4%	11.3%	6.9%	5.3%
TERMINAL (d)	1/34 (3%)	3/33 (9%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	694	635	417	627
HC TUMORS SAME RTE	3/299 (1%)			
HC TUMORS ALL RTES	29/1099 (3%)			

STATISTICAL TESTS

POLY 3	P=0.521N	P=0.205	P=0.482	P=0.628
POLY 1.5	P=0.489N	P=0.210	P=0.490	P=0.649
POLY 6	P=0.555N	P=0.202	P=0.472	P=0.605
COCH-ARM / FISHERS	P=0.420N	P=0.218	P=0.500	P=0.691N
MAX-ISO-POLY-3	P=0.457	P=0.114	P=0.311	P=0.432
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	4/46.25	3/44.28	3/42.65	1/37.64
POLY-3 PERCENT (g)	8.7%	6.8%	7%	2.7%
TERMINAL (d)	0/34 (0%)	2/33 (6%)	2/30 (7%)	1/24 (4%)
FIRST INCIDENCE	612	575	684	730 (T)
HC TUMORS SAME RTE	32/300 (11%)			
HC TUMORS ALL RTES	60/1100 (6%)			

STATISTICAL TESTS

POLY 3	P=0.196N	P=0.524N	P=0.544N	P=0.248N
POLY 1.5	P=0.175N	P=0.514N	P=0.526N	P=0.223N
POLY 6	P=0.223N	P=0.536N	P=0.568N	P=0.279N
COCH-ARM / FISHERS	P=0.135N	P=0.500N	P=0.500N	P=0.181N
MAX-ISO-POLY-3	P=0.260N	P=0.372N	P=0.392N	P=0.149N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	25/50 (50%)	20/50 (40%)	21/50 (42%)	16/50 (32%)
POLY-3 RATE (b)	25/46.51	20/46.73	21/43.35	16/38.75
POLY-3 PERCENT (g)	53.8%	42.8%	48.4%	41.3%
TERMINAL (d)	18/34 (53%)	12/33 (36%)	16/30 (53%)	11/24 (46%)
FIRST INCIDENCE	638	528	642	501
HC TUMORS SAME RTE	133/300 (44%)			
HC TUMORS ALL RTEs	574/1100 (52%)			

STATISTICAL TESTS

POLY 3	P=0.200N	P=0.194N	P=0.383N	P=0.172N
POLY 1.5	P=0.136N	P=0.202N	P=0.334N	P=0.118N
POLY 6	P=0.298N	P=0.182N	P=0.449N	P=0.254N
COCH-ARM / FISHERS	P=0.054N	P=0.211N	P=0.274N	P=0.052N
MAX-ISO-POLY-3	P=0.234N	P=0.142N	P=0.310N	P=0.141N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	20/50 (40%)	23/50 (46%)	16/50 (32%)
POLY-3 RATE (b)	27/47.27	20/46.73	23/43.35	16/38.75
POLY-3 PERCENT (g)	57.1%	42.8%	53.1%	41.3%
TERMINAL (d)	18/34 (53%)	12/33 (36%)	18/30 (60%)	11/24 (46%)
FIRST INCIDENCE	612	528	642	501
HC TUMORS SAME RTE	157/300 (52%)			
HC TUMORS ALL RTES	619/1100 (56%)			

STATISTICAL TESTS

POLY 3	P=0.149N	P=0.115N	P=0.428N	P=0.102N
POLY 1.5	P=0.090N	P=0.114N	P=0.357N	P=0.061N
POLY 6	P=0.251N	P=0.116N	P=0.528N	P=0.178N
COCH-ARM / FISHERS	P=0.030N*	P=0.115N	P=0.274N	P=0.021N*
MAX-ISO-POLY-3	P=0.142N	P=0.080N	P=0.351N	P=0.086N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)
Squamous Cell Carcinoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	4/1100 (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)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	10/1100 (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)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Oral Mucosa Squamous Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	4/1100 (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. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Ovary
 Granulosa-Theca Tumor Malignant**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.65	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	1/34 (3%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	638	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	0/1098 (0%)			

STATISTICAL TESTS

POLY 3	P=0.106N	P=0.247N	P=0.253N	P=0.283N
POLY 1.5	P=0.109N	P=0.243N	P=0.247N	P=0.267N
POLY 6	P=0.103N	P=0.251N	P=0.262N	P=0.301N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.074N	P=0.085N	P=0.092N	P=0.119N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Adenoma**

TUMOR RATES

OVERALL (a)	35/50 (70%)	33/50 (66%)	28/50 (56%)	30/50 (60%)
POLY-3 RATE (b)	35/47.38	33/48.38	28/45.19	30/42.08
POLY-3 PERCENT (g)	73.9%	68.2%	62%	71.3%
TERMINAL (d)	25/34 (74%)	21/33 (64%)	20/30 (67%)	17/24 (71%)
FIRST INCIDENCE	633	433	534	450
HC TUMORS SAME RTE	188/298 (63%)			
HC TUMORS ALL RTES	613/1093 (56%)			

STATISTICAL TESTS

POLY 3	P=0.418N	P=0.347N	P=0.149N	P=0.485N
POLY 1.5	P=0.325N	P=0.371N	P=0.127N	P=0.391N
POLY 6	P=0.524N	P=0.328N	P=0.185N	P=0.589N
COCH-ARM / FISHERS	P=0.149N	P=0.415N	P=0.107N	P=0.201N
MAX-ISO-POLY-3	P=0.377N	P=0.269N	P=0.106N	P=0.392N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Pituitary Gland: Pars Distalis or Unspecified Site
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	35/50 (70%)	34/50 (68%)	29/50 (58%)	30/50 (60%)
POLY-3 RATE (b)	35/47.38	34/48.38	29/45.24	30/42.08
POLY-3 PERCENT (g)	73.9%	70.3%	64.1%	71.3%
TERMINAL (d)	25/34 (74%)	22/33 (67%)	20/30 (67%)	17/24 (71%)
FIRST INCIDENCE	633	433	534	450
HC TUMORS SAME RTE	189/298 (63%)			
HC TUMORS ALL RTES	626/1093 (57%)			

STATISTICAL TESTS

POLY 3	P=0.404N	P=0.433N	P=0.206N	P=0.485N
POLY 1.5	P=0.310N	P=0.457N	P=0.178N	P=0.391N
POLY 6	P=0.514N	P=0.414N	P=0.251N	P=0.589N
COCH-ARM / FISHERS	P=0.137N	P=0.500N	P=0.149N	P=0.201N
MAX-ISO-POLY-3	P=0.427N	P=0.345N	P=0.151N	P=0.392N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.31	1/43.77	0/42.47	1/37.64
POLY-3 PERCENT (g)	0%	2.3%	0%	2.7%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	0/30 (0%)	1/24 (4%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	3/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.357	P=0.493	(e)	P=0.463
POLY 1.5	P=0.373	P=0.496	(e)	P=0.475
POLY 6	P=0.340	P=0.490	(e)	P=0.450
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.255	P=0.158	(e)	P=0.158
HISTCONT SAME RTE	P=0.092	P=0.023*	(e)	P=0.032*
HISTCONT ALL RTES	P=0.096	P=0.057	(e)	P=0.056

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Basal Cell Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	1/37.64
POLY-3 PERCENT (g)	0%	0%	0%	2.7%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	730 (T)
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	3/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.177	(e)	(e)	P=0.463
POLY 1.5	P=0.184	(e)	(e)	P=0.475
POLY 6	P=0.171	(e)	(e)	P=0.450
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.123	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

Skin
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.31	1/43.77	0/42.47	2/37.64
POLY-3 PERCENT (g)	0%	2.3%	0%	5.3%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	0/30 (0%)	2/24 (8%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	12/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.116	P=0.493	(e)	P=0.198
POLY 1.5	P=0.123	P=0.496	(e)	P=0.210
POLY 6	P=0.108	P=0.490	(e)	P=0.186
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.077	P=0.158	(e)	P=0.075
HISTCONT SAME RTE	P=0.066	P=0.125	(e)	P=0.053
HISTCONT ALL RTES	P=0.087	P=0.189	(e)	P=0.085

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 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%)	1/50 (2%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/45.31	1/43.77	1/42.47	4/37.64
POLY-3 PERCENT (g)	2.2%	2.3%	2.4%	10.6%
TERMINAL (d)	1/34 (3%)	1/33 (3%)	1/30 (3%)	4/24 (17%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
HC TUMORS SAME RTE	2/300 (1%)			
HC TUMORS ALL RTES	24/1100 (2%)			

STATISTICAL TESTS

POLY 3	P=0.050*	P=0.753	P=0.746	P=0.128
POLY 1.5	P=0.055	P=0.756	P=0.752	P=0.143
POLY 6	P=0.044*	P=0.750	P=0.739	P=0.112
COCH-ARM / FISHERS	P=0.067	P=0.753N	P=0.753N	P=0.181
MAX-ISO-POLY-3	P=0.064	P=0.489	P=0.481	P=0.070
HISTCONT SAME RTE	P=0.013*	P=0.239	P=0.235	P=0.035*
HISTCONT ALL RTES	P=0.059	P=0.619	P=0.609	P=0.053

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/34 (6%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	2/300 (1%)			
HC TUMORS ALL RTES	19/1100 (2%)			

STATISTICAL TESTS

POLY 3	P=0.106N	P=0.245N	P=0.252N	P=0.281N
POLY 1.5	P=0.109N	P=0.242N	P=0.246N	P=0.266N
POLY 6	P=0.104N	P=0.248N	P=0.259N	P=0.297N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.072N	P=0.083N	P=0.090N	P=0.117N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/34 (6%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	4/300 (1%)			
HC TUMORS ALL RTES	25/1100 (2%)			

STATISTICAL TESTS

POLY 3	P=0.106N	P=0.245N	P=0.252N	P=0.281N
POLY 1.5	P=0.109N	P=0.242N	P=0.246N	P=0.266N
POLY 6	P=0.104N	P=0.248N	P=0.259N	P=0.297N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.072N	P=0.083N	P=0.090N	P=0.117N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/45.31	0/43.77	1/42.47	1/37.64
POLY-3 PERCENT (g)	2.2%	0%	2.4%	2.7%
TERMINAL (d)	1/34 (3%)	0/33 (0%)	1/30 (3%)	1/24 (4%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	8/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.486	P=0.507N	P=0.746	P=0.718
POLY 1.5	P=0.502	P=0.504N	P=0.752	P=0.732
POLY 6	P=0.468	P=0.510N	P=0.739	P=0.701
COCH-ARM / FISHERS	P=0.539	P=0.500N	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.507	P=0.167N	P=0.481	P=0.451
HISTCONT SAME RTE	P=0.143	(e)	P=0.153	P=0.152
HISTCONT ALL RTES	P=0.404	(e)	P=0.340	P=0.324

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Skin				
Lipoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	1/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	---	---	730 (T)	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.616	(e)	P=0.487	(e)
POLY 1.5	P=0.642	(e)	P=0.492	(e)
POLY 6	P=0.588	(e)	P=0.481	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.408	(e)	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Squamous Cell Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1100 (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)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

Skin
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	1/37.64
POLY-3 PERCENT (g)	0%	0%	0%	2.7%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	730 (T)
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	4/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.177	(e)	(e)	P=0.463
POLY 1.5	P=0.184	(e)	(e)	P=0.475
POLY 6	P=0.171	(e)	(e)	P=0.450
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.123	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.31	0/43.77	1/42.47	2/37.64
POLY-3 PERCENT (g)	2.2%	0%	2.4%	5.3%
TERMINAL (d)	1/34 (3%)	0/33 (0%)	1/30 (3%)	2/24 (8%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	12/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.210	P=0.507N	P=0.746	P=0.436
POLY 1.5	P=0.222	P=0.504N	P=0.752	P=0.457
POLY 6	P=0.199	P=0.510N	P=0.739	P=0.413
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.210	P=0.167N	P=0.481	P=0.247
HISTCONT SAME RTE	P=0.029*	(e)	P=0.153	P=0.053
HISTCONT ALL RTES	P=0.127	(e)	P=0.416	P=0.107

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.31	0/43.77	1/42.47	2/37.64
POLY-3 PERCENT (g)	2.2%	0%	2.4%	5.3%
TERMINAL (d)	1/34 (3%)	0/33 (0%)	1/30 (3%)	2/24 (8%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	11/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.210	P=0.507N	P=0.746	P=0.436
POLY 1.5	P=0.222	P=0.504N	P=0.752	P=0.457
POLY 6	P=0.199	P=0.510N	P=0.739	P=0.413
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.210	P=0.167N	P=0.481	P=0.247
HISTCONT SAME RTE	P=0.029*	(e)	P=0.153	P=0.053
HISTCONT ALL RTES	P=0.110	(e)	P=0.398	P=0.102

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin: Sebaceous Gland
Adenoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	1/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.581N	P=0.493	(e)	(e)
POLY 1.5	P=0.576N	P=0.496	(e)	(e)
POLY 6	P=0.586N	P=0.490	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.442N	P=0.158	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Skin: Sebaceous Gland
Carcinoma or Adenoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	1/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	1/1100 (0%)			

STATISTICAL TESTS

POLY 3	P=0.581N	P=0.493	(e)	(e)
POLY 1.5	P=0.576N	P=0.496	(e)	(e)
POLY 6	P=0.586N	P=0.490	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.442N	P=0.158	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: C-Cell
Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/45.31	3/44.03	3/42.62	4/37.64
POLY-3 PERCENT (g)	6.6%	6.8%	7%	10.6%
TERMINAL (d)	3/34 (9%)	2/33 (6%)	2/30 (7%)	4/24 (17%)
FIRST INCIDENCE	730 (T)	659	694	730 (T)
HC TUMORS SAME RTE	14/299 (5%)			
HC TUMORS ALL RTES	124/1086 (11%)			

STATISTICAL TESTS

POLY 3	P=0.310	P=0.649	P=0.634	P=0.400
POLY 1.5	P=0.340	P=0.654	P=0.645	P=0.432
POLY 6	P=0.279	P=0.645	P=0.621	P=0.365
COCH-ARM / FISHERS	P=0.404	P=0.661N	P=0.661N	P=0.500
MAX-ISO-POLY-3	P=0.434	P=0.485	P=0.469	P=0.277
HISTCONT SAME RTE	P=0.134	P=0.451	P=0.426	P=0.166
HISTCONT ALL RTES	P=0.510	P=0.613	P=0.594	P=0.347

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

Thyroid Gland: C-Cell Carcinoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/45.31	2/43.77	2/42.47	2/38.01
POLY-3 PERCENT (g)	2.2%	4.6%	4.7%	5.3%
TERMINAL (d)	1/34 (3%)	2/33 (6%)	2/30 (7%)	1/24 (4%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	626
HC TUMORS SAME RTE	6/299 (2%)			
HC TUMORS ALL RTES	18/1086 (2%)			

STATISTICAL TESTS

POLY 3	P=0.341	P=0.488	P=0.477	P=0.439
POLY 1.5	P=0.366	P=0.493	P=0.487	P=0.458
POLY 6	P=0.315	P=0.483	P=0.466	P=0.419
COCH-ARM / FISHERS	P=0.423	P=0.500	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.425	P=0.273	P=0.268	P=0.249
HISTCONT SAME RTE	P=0.107	P=0.175	P=0.170	P=0.153
HISTCONT ALL RTES	P=0.057	P=0.195	P=0.189	P=0.171

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: C-Cell
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)	5/50 (10%)	6/50 (12%)
POLY-3 RATE (b)	4/45.31	5/44.03	5/42.62	6/38.01
POLY-3 PERCENT (g)	8.8%	11.4%	11.7%	15.8%
TERMINAL (d)	4/34 (12%)	4/33 (12%)	4/30 (13%)	5/24 (21%)
FIRST INCIDENCE	730 (T)	659	694	626
HC TUMORS SAME RTE	20/299 (7%)			
HC TUMORS ALL RTES	141/1086 (13%)			

STATISTICAL TESTS

POLY 3	P=0.212	P=0.482	P=0.462	P=0.264
POLY 1.5	P=0.243	P=0.489	P=0.477	P=0.296
POLY 6	P=0.182	P=0.476	P=0.443	P=0.232
COCH-ARM / FISHERS	P=0.316	P=0.500	P=0.500	P=0.370
MAX-ISO-POLY-3	P=0.302	P=0.348	P=0.332	P=0.186
HISTCONT SAME RTE	P=0.043*	P=0.241	P=0.224	P=0.106
HISTCONT ALL RTES	P=0.353	P=0.440	P=0.418	P=0.226

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: Follicular Cell
Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	1/43.77	1/42.47	0/37.64
POLY-3 PERCENT (g)	0%	2.3%	2.4%	0%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	5/1086 (1%)			

STATISTICAL TESTS

POLY 3	P=0.643N	P=0.493	P=0.487	(e)
POLY 1.5	P=0.627N	P=0.496	P=0.492	(e)
POLY 6	P=0.660N	P=0.490	P=0.481	(e)
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.436	P=0.158	P=0.158	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

Thyroid Gland: Follicular Cell Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	1/37.64
POLY-3 PERCENT (g)	0%	0%	0%	2.7%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	730 (T)
HC TUMORS SAME RTE	0/299 (0%)			
HC TUMORS ALL RTES	6/1086 (1%)			

STATISTICAL TESTS

POLY 3	P=0.177	(e)	(e)	P=0.463
POLY 1.5	P=0.184	(e)	(e)	P=0.475
POLY 6	P=0.171	(e)	(e)	P=0.450
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.123	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**Thyroid Gland: Follicular Cell
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.31	1/43.77	1/42.47	1/37.64
POLY-3 PERCENT (g)	0%	2.3%	2.4%	2.7%
TERMINAL (d)	0/34 (0%)	1/33 (3%)	1/30 (3%)	1/24 (4%)
FIRST INCIDENCE	---	730 (T)	730 (T)	730 (T)
HC TUMORS SAME RTE	1/299 (0%)			
HC TUMORS ALL RTES	10/1086 (1%)			

STATISTICAL TESTS

POLY 3	P=0.315	P=0.493	P=0.487	P=0.463
POLY 1.5	P=0.337	P=0.496	P=0.492	P=0.475
POLY 6	P=0.292	P=0.490	P=0.481	P=0.450
COCH-ARM / FISHERS	P=0.384	P=0.500	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.334	P=0.158	P=0.158	P=0.158
HISTCONT SAME RTE	P=0.103	P=0.119	P=0.119	P=0.122
HISTCONT ALL RTES	P=0.293	P=0.189	P=0.189	P=0.188

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	8/50 (16%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	8/46.24	8/44.36	8/43.27	7/39.12
POLY-3 PERCENT (g)	17.3%	18%	18.5%	17.9%
TERMINAL (d)	6/34 (18%)	6/33 (18%)	5/30 (17%)	3/24 (13%)
FIRST INCIDENCE	438	577	607	590
HC TUMORS SAME RTE	62/300 (21%)			
HC TUMORS ALL RTES	203/1100 (19%)			

STATISTICAL TESTS

POLY 3	P=0.519	P=0.573	P=0.551	P=0.584
POLY 1.5	P=0.536N	P=0.585	P=0.573	P=0.598N
POLY 6	P=0.479	P=0.562	P=0.530	P=0.548
COCH-ARM / FISHERS	P=0.434N	P=0.607N	P=0.607N	P=0.500N
MAX-ISO-POLY-3	P=0.702	P=0.463	P=0.442	P=0.473
HISTCONT SAME RTE	P=0.822	P=0.596	P=0.571	P=0.608
HISTCONT ALL RTES	P=0.817	P=0.587	P=0.562	P=0.599

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Uterus				
Sarcoma Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/46.01	0/43.77	1/42.47	1/38.01
POLY-3 PERCENT (g)	4.4%	0%	2.4%	2.6%
TERMINAL (d)	1/34 (3%)	0/33 (0%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	493	---	730 (T)	627
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	8/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.521N	P=0.248N	P=0.528N	P=0.566N
POLY 1.5	P=0.515N	P=0.244N	P=0.516N	P=0.545N
POLY 6	P=0.527N	P=0.253N	P=0.541N	P=0.587N
COCH-ARM / FISHERS	P=0.500N	P=0.247N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.371N	P=0.087N	P=0.311N	P=0.351N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	8/50 (16%)	8/50 (16%)	8/50 (16%)
POLY-3 RATE (b)	10/46.93	8/44.36	8/43.27	8/39.49
POLY-3 PERCENT (g)	21.3%	18%	18.5%	20.3%
TERMINAL (d)	7/34 (21%)	6/33 (18%)	5/30 (17%)	3/24 (13%)
FIRST INCIDENCE	438	577	607	590
HC TUMORS SAME RTE	65/300 (22%)			
HC TUMORS ALL RTEs	211/1100 (19%)			

STATISTICAL TESTS

POLY 3	P=0.516N	P=0.449N	P=0.472N	P=0.558N
POLY 1.5	P=0.475N	P=0.430N	P=0.443N	P=0.510N
POLY 6	P=0.540	P=0.466N	P=0.500N	P=0.598N
COCH-ARM / FISHERS	P=0.375N	P=0.398N	P=0.398N	P=0.398N
MAX-ISO-POLY-3	P=0.620N	P=0.350N	P=0.373N	P=0.455N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Zymbal's Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.72	1/43.9	2/43.24	0/37.64
POLY-3 PERCENT (g)	2.2%	2.3%	4.6%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	612	697	451	---
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	6/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.434N	P=0.752	P=0.481	P=0.538N
POLY 1.5	P=0.412N	P=0.755	P=0.489	P=0.526N
POLY 6	P=0.459N	P=0.748	P=0.469	P=0.552N
COCH-ARM / FISHERS	P=0.366N	P=0.753N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.339N	P=0.488	P=0.270	P=0.206N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.72	1/43.9	2/43.24	0/37.64
POLY-3 PERCENT (g)	2.2%	2.3%	4.6%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	1/30 (3%)	0/24 (0%)
FIRST INCIDENCE	612	697	451	---
HC TUMORS SAME RTE	3/300 (1%)			
HC TUMORS ALL RTES	6/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.434N	P=0.752	P=0.481	P=0.538N
POLY 1.5	P=0.412N	P=0.755	P=0.489	P=0.526N
POLY 6	P=0.459N	P=0.748	P=0.469	P=0.552N
COCH-ARM / FISHERS	P=0.366N	P=0.753N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.339N	P=0.488	P=0.270	P=0.206N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	1/44.27	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	577	---	---
HC TUMORS SAME RTE	4/300 (1%)			
HC TUMORS ALL RTES	9/1100 (1%)			

STATISTICAL TESTS

POLY 3	P=0.580N	P=0.495	(e)	(e)
POLY 1.5	P=0.575N	P=0.497	(e)	(e)
POLY 6	P=0.585N	P=0.494	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.444N	P=0.158	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

TDMS No. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

All Organs
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

TUMOR RATES	#	#	#	#
OVERALL (a)	16/50 (32%)	13/50 (26%)	17/50 (34%)	15/50 (30%)
POLY-3 RATE (b)	16/46.69	13/44.49	17/45.2	15/38.81
POLY-3 PERCENT (g)	34.3%	29.2%	37.6%	38.7%
TERMINAL (d)	9/34 (27%)	10/33 (30%)	8/30 (27%)	10/24 (42%)
FIRST INCIDENCE	633	590	541	611
HC TUMORS SAME RTE	100/300 (33%)			
HC TUMORS ALL RTES	265/1100 (24%)			

STATISTICAL TESTS

POLY 3	P=0.294	P=0.385N	P=0.453	P=0.423
POLY 1.5	P=0.364	P=0.361N	P=0.471	P=0.505
POLY 6	P=0.228	P=0.416N	P=0.435	P=0.337
COCH-ARM / FISHERS	P=0.531	P=0.330N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.440	P=0.306N	P=0.369	P=0.349
HISTCONT SAME RTE	P=0.534	P=1.000	P=0.482	P=0.457
HISTCONT ALL RTES	P=0.175	P=0.546	P=0.285	P=0.304

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 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)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	4/1100 (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)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 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)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/300 (0%)			
HC TUMORS ALL RTES	3/1100 (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)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Osteosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	5/1100 (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)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.31	0/43.77	0/42.47	0/37.64
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/33 (0%)	0/30 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/300 (0%)			
HC TUMORS ALL RTES	5/1100 (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. 20011 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 1-Bromopropane
 CAS Number: 106-94-5

Date Report Requested: 07/09/2008
 Time Report Requested: 10:20:06
 First Dose M/F: 07/14/03 / 07/14/03
 Lab: BNW

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	45/50 (90%)	46/50 (92%)	36/50 (72%)	41/50 (82%)
POLY-3 RATE (b)	45/48.22	46/49.87	36/45.43	41/44.13
POLY-3 PERCENT (g)	93.3%	92.2%	79.3%	92.9%
TERMINAL (d)	33/34 (97%)	30/33 (91%)	26/30 (87%)	23/24 (96%)
FIRST INCIDENCE	438	433	534	450
HC TUMORS SAME RTE	253/300 (84%)			
HC TUMORS ALL RTES	966/1100 (88%)			

STATISTICAL TESTS

POLY 3	P=0.399N	P=0.577N	P=0.028N*	P=0.654N
POLY 1.5	P=0.277N	P=0.637	P=0.023N*	P=0.514N
POLY 6	P=0.519N	P=0.448N	P=0.038N*	P=0.689
COCH-ARM / FISHERS	P=0.076N	P=0.500	P=0.020N*	P=0.194N
MAX-ISO-POLY-3	P=0.175N	P=0.412N	P=0.014N*	P=0.463N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
Malignant Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	26/50 (52%)	23/50 (46%)	28/50 (56%)	20/50 (40%)
POLY-3 RATE (b)	26/48.77	23/46.05	28/47.53	20/39.71
POLY-3 PERCENT (g)	53.3%	50%	58.9%	50.4%
TERMINAL (d)	13/34 (38%)	15/33 (46%)	15/30 (50%)	12/24 (50%)
FIRST INCIDENCE	493	575	417	578
HC TUMORS SAME RTE	144/300 (48%)			
HC TUMORS ALL RTES	428/1100 (39%)			

STATISTICAL TESTS

POLY 3	P=0.519N	P=0.452N	P=0.363	P=0.475N
POLY 1.5	P=0.394N	P=0.406N	P=0.392	P=0.350N
POLY 6	P=0.410	P=0.510N	P=0.319	P=0.554
COCH-ARM / FISHERS	P=0.175N	P=0.345N	P=0.421	P=0.158N
MAX-ISO-POLY-3	P=0.590N	P=0.373N	P=0.292	P=0.398N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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

DOSE	Females			
	CONTROL	125 PPM	250 PPM	500 PPM

**All Organs
Malignant and Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	49/50 (98%)	48/50 (96%)	46/50 (92%)	43/50 (86%)
POLY-3 RATE (b)	49/50	48/50	46/49.64	43/44.5
POLY-3 PERCENT (g)	98%	96%	92.7%	96.6%
TERMINAL (d)	33/34 (97%)	31/33 (94%)	27/30 (90%)	24/24 (100%)
FIRST INCIDENCE	438	433	417	450
HC TUMORS SAME RTE	279/300 (93%)			
HC TUMORS ALL RTES	1039/1100 (95%)			

STATISTICAL TESTS

POLY 3	P=0.415N	P=0.500N	P=0.211N	P=0.613N
POLY 1.5	P=0.196N	P=0.500N	P=0.195N	P=0.277N
POLY 6	P=0.558	P=0.500N	P=0.237N	P=0.728
COCH-ARM / FISHERS	P=0.010N**	P=0.500N	P=0.181N	P=0.030N*
MAX-ISO-POLY-3	P=0.326N	P=0.281N	P=0.099N	P=0.312N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

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 ***