Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
CAS Number: N/A

Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

C Number: Multiple

Study Gender: Male

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
CAS Number: N/A

Date Report Requested: 04/17/2019
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Lab: NTP

	Total Protein Concentration (mg/ml)					
	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	7.27 ± 1.03 (6)	8.37 ± 0.91 (6)	6.98 ± 0.80 (6)	8.69 ± 1.06 (6)	9.97 ± 1.18 (6)	7.41 ± 1.29 (6)
decaBDE	8.21 ± 1.21 (6) *	9.43 ± 0.19 (6)	9.35 ± 0.63 (6)	9.46 ± 0.46 (6)	10.04 ± 0.81 (6)	10.80 ± 0.41 (6)
HBCD	9.31 ± 0.88 (6) *	8.62 ± 0.94 (6)	8.89 ± 0.72 (6)	9.68 ± 0.62 (6)	7.55 ± 0.60 (6)	7.15 ± 0.61 (6)
TBB	8.00 ± 0.79 (5)	8.21 ± 1.25 (6)	8.41 ± 0.62 (6)	8.41 ± 0.89 (6)	9.33 ± 0.49 (6)	9.37 ± 1.68 (6)
TBPH	8.67 ± 0.93 (6)	9.77 ± 0.77 (6)	7.57 ± 0.78 (6)	7.90 ± 0.46 (6)	6.94 ± 0.74 (6)	8.19 ± 0.74 (6)
TBBPA-DBPE	8.31 ± 0.50 (6)	8.08 ± 0.54 (6)	8.83 ± 0.62 (6)	8.46 ± 0.25 (6)	7.69 ± 0.60 (6)	9.11 ± 0.34 (6)
BTBPE	9.59 ± 0.54 (6)	9.18 ± 1.02 (6)	10.27 ± 0.88 (6)	9.56 ± 0.36 (6)	10.59 ± 0.38 (6)	9.38 ± 0.56 (6)
DBDPE	10.74 ± 0.60 (6)	9.41 ± 0.84 (6)	10.32 ± 0.24 (6)	10.57 ± 1.10 (6)	10.77 ± 0.59 (6)	10.31 ± 0.36 (6)
HCDBCO	9.90 ± 0.99 (6)	10.67 ± 1.15 (6)	9.50 ± 0.51 (6)	10.14 ± 0.84 (6)	10.10 ± 0.82 (6)	9.77 ± 0.66 (6)

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
CAS Number: N/A

Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

	Cytochrome P450 1A1 Concentration (ng/ml)					
	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	18.6 ± 1.4 (6)	18.9 ± 0.8 (5)	19.3 ± 0.5 (6)	20.8 ± 1.2 (6)	22.1 ± 1.9 (6)	15.6 ± 0.8 (5)
decaBDE	18.8 ± 2.2 (6) *	19.9 ± 1.0 (6)	18.0 ± 1.3 (6)	22.4 ± 1.6 (6)	21.8 ± 1.7 (6)	22.0 ± 2.0 (6)
HBCD	21.4 ± 1.4 (6) *	30.1 ± 5.9 (6)	18.9 ± 2.6 (6)	22.3 ± 1.2 (5)	19.4 ± 1.3 (6)	17.9 ± 1.0 (6)
TBB	13.7 ± 0.8 (4)	34.2 ± 8.0 (6)	15.8 ± 1.0 (5)	27.8 ± 9.6 (6)	15.8 ± 0.6 (6)	25.3 ± 8.1 (6)
TBPH	25.7 ± 3.5 (6)	45.2 ± 14.6 (6)	45.8 ± 14.4 (6)	51.4 ± 9.0 (6)	31.2 ± 2.6 (6)	39.6 ± 6.8 (6)
TBBPA-DBPE	24.4 ± 1.8 (6) *	29.2 ± 1.6 (6)	24.2 ± 1.2 (6)	27.4 ± 2.1 (5)	27.6 ± 2.1 (5)	45.3 ± 8.5 (6)
BTBPE	34.5 ± 5.3 (6)	31.8 ± 7.0 (6)	40.7 ± 8.2 (6)	27.9 ± 5.0 (6)	28.5 ± 7.9 (6)	43.4 ± 2.7 (6)
DBDPE	20.8 ± 1.5 (6)	18.8 ± 1.6 (6)	16.8 ± 0.7 (6)	20.1 ± 1.4 (6)	20.7 ± 0.5 (6)	18.1 ± 0.9 (6)
HCDBCO	49.7 ± 6.5 (6)	47.5 ± 9.2 (6)	46.4 ± 3.4 (6)	57.2 ± 10.1 (6)	41.8 ± 6.3 (6)	42.8 ± 7.7 (6)

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
CAS Number: N/A

Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

Cytochrome P450 1A1 Tissue Concentration (ng/mg)

	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	2.790 ± 0.379 (6)	2.773 ± 0.434 (6)	2.935 ± 0.315 (6)	2.552 ± 0.271 (6)	2.327 ± 0.306 (6)	2.763 ± 0.280 (6)
decaBDE	2.098 ± 0.104 (5)	2.112 ± 0.111 (6)	2.052 ± 0.037 (5)	2.373 ± 0.143 (6)	2.223 ± 0.205 (6)	2.057 ± 0.214 (6)
HBCD	2.377 ± 0.233 (6)	3.573 ± 0.551 (6)	2.360 ± 0.617 (6)	3.075 ± 0.768 (6)	2.610 ± 0.162 (6)	2.615 ± 0.310 (6)
TBB	1.875 ± 0.102 (4)	4.750 ± 1.094 (6)	1.842 ± 0.066 (5)	3.332 ± 1.066 (6)	1.715 ± 0.120 (6)	3.583 ± 1.454 (6)
TBPH	3.020 ± 0.365 (6)	4.600 ± 1.230 (6)	6.115 ± 1.550 (6)	6.772 ± 1.403 (6)	4.947 ± 0.902 (6)	4.903 ± 0.752 (6)
TBBPA-DBPE	2.648 ± 0.069 (5) *	3.660 ± 0.249 (6) *	2.785 ± 0.167 (6)	3.258 ± 0.209 (5)	3.660 ± 0.436 (5)	5.103 ± 1.055 (6)
BTBPE	3.588 ± 0.515 (6)	3.452 ± 0.620 (6)	3.902 ± 0.625 (6)	2.968 ± 0.585 (6)	2.633 ± 0.671 (6)	4.723 ± 0.439 (6)
DBDPE	1.967 ± 0.169 (6)	2.015 ± 0.099 (6)	1.635 ± 0.090 (6)	1.945 ± 0.114 (6)	1.948 ± 0.094 (6)	1.755 ± 0.058 (6)
HCDBCO	5.095 ± 0.577 (6)	4.337 ± 0.589 (6)	4.930 ± 0.370 (6)	5.628 ± 0.889 (6)	4.068 ± 0.371 (6)	4.618 ± 1.067 (6)

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
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Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

	Cytochrome P450 2B1 Concentration (ng/ml)					
	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	3.20 ± 0.05 (6)	3.41 ± 0.19 (6)	3.39 ± 0.23 (6)	3.45 ± 0.21 (6)	3.14 ± 0.07 (6)	3.19 ± 0.17 (6)
decaBDE	2.47 ± 0.10 (6)	2.80 ± 0.31 (6)	2.78 ± 0.21 (6)	2.46 ± 0.12 (6)	2.46 ± 0.19 (6)	2.32 ± 0.05 (6)
HBCD	3.27 ± 0.15 (6) *	3.18 ± 0.16 (6)	3.23 ± 0.14 (6)	2.93 ± 0.12 (6)	2.79 ± 0.09 (6)	3.06 ± 0.19 (6)
TBB	3.95 ± 0.25 (5)	3.32 ± 0.10 (6)	3.65 ± 0.19 (6)	3.88 ± 0.20 (6)	3.92 ± 0.26 (6)	3.33 ± 0.10 (6)
TBPH	3.45 ± 0.13 (6)	3.29 ± 0.14 (6)	3.63 ± 0.09 (6)	3.36 ± 0.11 (6)	3.47 ± 0.13 (6)	3.47 ± 0.12 (6)
TBBPA-DBPE	3.45 ± 0.09 (6) **	3.61 ± 0.10 (6)	3.50 ± 0.09 (6)	3.60 ± 0.11 (6)	3.77 ± 0.10 (6)	3.84 ± 0.06 (6) *
BTBPE	3.43 ± 0.23 (6)	3.55 ± 0.24 (6)	3.61 ± 0.14 (6)	3.99 ± 0.26 (6)	3.91 ± 0.27 (6)	3.40 ± 0.13 (6)
DBDPE	4.32 ± 0.27 (6)	4.42 ± 0.30 (6)	4.06 ± 0.34 (6)	4.30 ± 0.22 (6)	4.52 ± 0.31 (6)	4.24 ± 0.19 (6)
HCDBCO	3.50 ± 0.21 (6)	3.59 ± 0.21 (6)	3.43 ± 0.24 (6)	3.37 ± 0.22 (6)	3.82 ± 0.15 (6)	3.62 ± 0.13 (6)

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
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Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

	Cytochrome P450 2B1 Tissue Concentration (ng/mg)					
	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	0.496 ± 0.081 (6)	0.424 ± 0.042 (6)	0.511 ± 0.049 (6)	0.424 ± 0.048 (6)	0.335 ± 0.037 (6)	0.472 ± 0.055 (6)
decaBDE	0.353 ± 0.075 (6) *	0.297 ± 0.030 (6)	0.308 ± 0.038 (6)	0.266 ± 0.027 (6)	0.254 ± 0.031 (6)	0.217 ± 0.009 (6)
HBCD	0.369 ± 0.041 (6)	0.409 ± 0.074 (6)	0.373 ± 0.025 (6)	0.314 ± 0.033 (6)	0.377 ± 0.023 (6)	0.443 ± 0.049 (6)
TBB	0.503 ± 0.032 (5)	0.379 ± 0.031 (5)	0.445 ± 0.037 (6)	0.484 ± 0.054 (6)	0.425 ± 0.034 (6)	0.440 ± 0.107 (6)
TBPH	0.414 ± 0.032 (6)	0.346 ± 0.028 (6)	0.503 ± 0.047 (6)	0.431 ± 0.021 (6)	0.535 ± 0.071 (6)	0.443 ± 0.045 (6)
TBBPA-DBPE	0.421 ± 0.018 (6)	0.455 ± 0.028 (6)	0.405 ± 0.029 (6)	0.428 ± 0.018 (6)	0.505 ± 0.041 (6)	0.424 ± 0.019 (6)
BTBPE	0.362 ± 0.029 (6)	0.413 ± 0.055 (6)	0.366 ± 0.037 (6)	0.420 ± 0.029 (6)	0.375 ± 0.037 (6)	0.370 ± 0.031 (6)
DBDPE	0.410 ± 0.040 (6)	0.497 ± 0.068 (6)	0.394 ± 0.032 (6)	0.427 ± 0.043 (6)	0.422 ± 0.023 (6)	0.415 ± 0.028 (6)
HCDBCO	0.376 ± 0.049 (6)	0.361 ± 0.050 (6)	0.369 ± 0.041 (6)	0.346 ± 0.037 (6)	0.394 ± 0.041 (6)	0.378 ± 0.023 (6)

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
CAS Number: N/A

Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

	Cytochrome P450 1A2 Concentration (ng/ml)					
	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	48.7 ± 14.5 (6)	49.0 ± 8.7 (6)	39.2 ± 4.9 (6)	36.9 ± 4.1 (6)	55.3 ± 15.8 (6)	46.7 ± 5.6 (6)
decaBDE	25.7 ± 5.7 (6)	43.2 ± 5.0 (6)	33.4 ± 5.3 (6)	43.2 ± 4.5 (6)	43.0 ± 2.8 (6)	43.1 ± 6.7 (6)
HBCD	47.6 ± 3.5 (5) **	59.7 ± 10.3 (6)	39.2 ± 7.9 (6)	49.0 ± 6.1 (6)	40.3 ± 4.7 (6)	28.8 ± 4.4 (6) *
TBB	42.7 ± 2.7 (5)	41.7 ± 7.5 (6)	48.2 ± 4.2 (6)	40.7 ± 5.1 (6)	51.3 ± 4.3 (6)	41.4 ± 6.2 (6)
TBPH	37.4 ± 3.6 (6)	50.0 ± 8.0 (6)	39.7 ± 5.5 (6)	37.0 ± 1.4 (6)	35.9 ± 5.6 (6)	34.5 ± 4.0 (6)
TBBPA-DBPE	37.6 ± 1.3 (5)	62.3 ± 13.6 (6)	72.2 ± 19.7 (6)	37.4 ± 3.8 (6)	41.7 ± 5.9 (6)	34.3 ± 4.0 (6)
BTBPE	38.9 ± 3.7 (6)	36.9 ± 4.5 (6)	50.4 ± 5.9 (6)	42.0 ± 3.5 (6)	42.4 ± 5.2 (6)	43.9 ± 1.8 (6)
DBDPE	50.0 ± 4.9 (6)	48.8 ± 17.6 (6)	33.3 ± 2.9 (6)	40.2 ± 6.4 (6)	46.0 ± 4.5 (6)	30.1 ± 6.4 (6)
HCDBCO	47.8 ± 3.6 (6)	50.3 ± 6.4 (6)	39.0 ± 1.1 (5)	48.1 ± 5.6 (6)	41.1 ± 3.6 (6)	39.5 ± 3.2 (5)

Experiment Number: Multiple
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA49X: Summary of Cytochrome Activity
Test Compound: Flame Retardants
CAS Number: N/A

Date Report Requested: 04/17/2019
Time Report Requested: 08:52:49
Lab: NTP

	Cytochrome P450 1A2 Tissue Concentration (ng/mg)					
	Treatment Groups (umol/kg)					
Test Article	**0**	**0.1**	**1**	**10**	**100**	**1000**
PBDE-47	6.762 ± 1.700 (6)	5.973 ± 1.043 (6)	5.988 ± 0.879 (6)	4.757 ± 0.975 (6)	5.808 ± 1.756 (6)	7.072 ± 1.206 (6)
decaBDE	3.127 ± 0.453 (6)	4.578 ± 0.546 (6)	3.480 ± 0.425 (6)	4.550 ± 0.466 (6)	4.327 ± 0.205 (6)	4.025 ± 0.605 (6)
HBCD	6.392 ± 0.872 (6) **	7.120 ± 1.021 (6)	4.728 ± 1.105 (6)	5.023 ± 0.441 (6)	5.532 ± 0.878 (6)	3.388 ± 0.184 (5) **
TBB	5.442 ± 0.386 (5)	5.118 ± 0.625 (6)	5.902 ± 0.641 (6)	4.957 ± 0.596 (6)	5.655 ± 0.709 (6)	4.833 ± 0.765 (6)
TBPH	4.478 ± 0.461 (6)	4.958 ± 0.596 (6)	5.183 ± 0.340 (6)	4.767 ± 0.358 (6)	5.218 ± 0.555 (6)	4.225 ± 0.292 (6)
TBBPA-DBPE	5.682 ± 1.041 (6) *	7.532 ± 1.253 (6)	7.707 ± 1.676 (6)	4.425 ± 0.440 (6)	5.317 ± 0.527 (6)	3.783 ± 0.480 (6)
BTBPE	4.078 ± 0.364 (6)	4.003 ± 0.335 (6)	4.945 ± 0.518 (6)	4.378 ± 0.262 (6)	3.983 ± 0.422 (6)	4.712 ± 0.173 (6)
DBDPE	4.685 ± 0.425 (6)	4.843 ± 1.393 (6)	3.243 ± 0.309 (6)	3.788 ± 0.405 (6)	4.312 ± 0.433 (6)	3.572 ± 0.249 (6)
HCDBCO	5.125 ± 0.719 (6)	4.757 ± 0.458 (6)	3.946 ± 0.158 (5)	4.732 ± 0.363 (6)	4.080 ± 0.203 (6)	5.252 ± 0.980 (6)

Experiment Number: Multiple
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Lab: NTP

UDP GT1A1 Concentration (ng/ml)

	Treatment Groups (umol/kg)			
Test Article	**0**	**0.1**	**1**	**10**
PBDE-47	15048.917 ± 1453.437 (6) **	16626.417 ± 2304.970 (6)	14805.417 ± 1592.598 (6)	16437.750 ± 1793.113 (6)
decaBDE	11061.083 ± 1851.625 (6) **	15939.083 ± 713.246 (6)	16076.083 ± 1586.115 (6)	17720.833 ± 1132.744 (6) **
HBCD	18262.167 ± 1841.528 (6) **	21260.167 ± 3128.318 (6)	13823.500 ± 1827.737 (6)	16312.750 ± 2500.187 (6)
TBB	11287.125 ± 198.577 (4)	13978.250 ± 1948.175 (6)	16187.250 ± 2124.849 (6)	12792.583 ± 1596.482 (6)
TBPH	19421.083 ± 3103.378 (6)	24017.083 ± 2110.616 (6)	18496.750 ± 2403.382 (6)	18099.167 ± 2758.902 (6)
TBBPA-DBPE	17282.667 ± 1785.099 (6)	20381.167 ± 3017.919 (6)	19972.917 ± 1403.424 (6)	21572.917 ± 2386.067 (6)
BTBPE	14498.500 ± 1347.583 (6)	14673.917 ± 1368.540 (6)	15930.250 ± 2267.098 (6)	15258.583 ± 753.312 (6)
DBDPE	18885.833 ± 2295.280 (6)	16300.917 ± 2921.952 (6)	15339.833 ± 1486.417 (6)	20042.750 ± 4679.150 (6)
HCDBCO	19495.500 ± 2684.533 (6)	19156.000 ± 1408.278 (6)	16560.100 ± 551.379 (5)	16856.750 ± 2981.839 (6)

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PA49X: Summary of Cytochrome Activity
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Lab: NTP

UDP GT1A1 Concentration (ng/ml)

	Treatment Groups (umol/kg)	
Test Article	**100**	**1000**
PBDE-47	25644.667 ± 2938.265 (6) **	22583.917 ± 2239.463 (6) *
decaBDE	19192.000 ± 1181.587 (6) **	19371.167 ± 1438.438 (6) **
HBCD	12470.100 ± 882.771 (5) *	13628.083 ± 1136.968 (6) *
TBB	15428.583 ± 1152.366 (6)	17277.667 ± 2292.356 (6)
TBPH	19806.000 ± 3544.573 (6)	19351.167 ± 3271.917 (6)
TBBPA-DBPE	16410.000 ± 1749.834 (6)	18369.250 ± 1749.258 (6)
BTBPE	15899.333 ± 874.109 (6)	15404.500 ± 1276.204 (6)
DBDPE	18513.083 ± 1598.900 (6)	17187.167 ± 1463.519 (6)
HCDBCO	20329.167 ± 1448.137 (6)	19725.250 ± 2361.806 (6)

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Lab: NTP

UDP GT1A1 Tissue Concentration (ng/mg)

	Treatment Groups (umol/kg)			
Test Article	**0**	**0.1**	**1**	**10**
PBDE-47	2376.768 ± 487.613 (6)	2092.099 ± 370.681 (6)	2282.695 ± 337.689 (6)	2039.353 ± 317.127 (6)
decaBDE	1333.481 ± 62.450 (6) **	1695.179 ± 85.595 (6) *	1707.247 ± 83.514 (6) *	1882.562 ± 108.587 (6) **
HBCD	1973.089 ± 103.760 (6)	2561.153 ± 348.670 (6)	1618.925 ± 240.680 (6)	1669.753 ± 219.588 (6)
TBB	1593.184 ± 80.025 (5)	1813.335 ± 244.355 (6)	1661.244 ± 87.524 (5)	1543.427 ± 186.494 (6)
TBPH	2228.271 ± 225.663 (6)	2516.253 ± 267.877 (6)	2438.750 ± 191.428 (6)	2248.733 ± 226.668 (6)
TBBPA-DBPE	2059.958 ± 109.630 (6)	2511.993 ± 301.098 (6)	2290.029 ± 143.148 (6)	2535.729 ± 230.732 (6)
BTBPE	1512.975 ± 111.572 (6)	1611.921 ± 49.895 (6)	1540.997 ± 155.885 (6)	1600.952 ± 74.575 (6)
DBDPE	1751.855 ± 182.530 (6)	1677.362 ± 172.115 (6)	1497.705 ± 163.224 (6)	1778.288 ± 275.959 (6)
HCDBCO	1987.018 ± 215.450 (6)	1837.278 ± 110.077 (6)	1926.714 ± 150.645 (6)	1635.941 ± 212.602 (6)

Experiment Number: Multiple
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UDP GT1A1 Tissue Concentration (ng/mg)

	Treatment Groups (umol/kg)	
Test Article	**100**	**1000**
PBDE-47	2633.788 ± 249.490 (6)	3368.914 ± 513.011 (6)
decaBDE	1941.897 ± 114.874 (6) **	1791.413 ± 104.139 (6) **
HBCD	2072.019 ± 325.013 (6)	1950.475 ± 181.504 (6)
TBB	1680.362 ± 162.104 (6)	2214.796 ± 46.390 (5)
TBPH	2784.631 ± 345.679 (6)	2328.577 ± 281.198 (6)
TBBPA-DBPE	2132.415 ± 161.326 (6)	2006.024 ± 150.128 (6)
BTBPE	1568.491 ± 16.937 (5)	1634.752 ± 68.265 (6)
DBDPE	1736.869 ± 161.313 (6)	1660.615 ± 107.544 (6)
HCDBCO	2044.236 ± 142.173 (6)	1995.764 ± 126.307 (6)

LEGEND

Data are displayed as mean ± SEM (N) unless otherwise noted

Statistical analysis performed by Jonchkeere (trend) and Shirley or Dunn (pairwise) tests

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at P <= 0.05

** Statistically significant at P <= 0.01

Legacy Flame Retardants: PBDE-47 = 2,2',4,4'-Tetrabromodiphenyl ether; decaBDE = Decabromodiphenyl ether; HBCD = 1,3,5,7,9,11-Hexabromocyclododecane

Emerging Flame Retardants: TBB = 2-Ethylhexyl-2,3,4,5-tetrabromobenzoate; TBPH = Bis(2-ethylhexyl) tetrabromophthalate; TBBPA-DBPE = Tetrabromobisphenol A-bis(2,3 dibromopropyl ether); BTBPE = 1,2-Bis(2,4,6-tribromophenoxy)ethane; DBDPE = 1,2-Bis(pentabromophenyl)ethane; HCDBCO = Hexachlorocyclopentadienyl-dibromocyclooctane

PBDE-47: One value for Cytochrome P450 1A1 Concentration in the 0.1 umol/kg group and one value for Cytochrome P450 1A1 Concentration in the 1000 umol/kg group were excluded because they were outliers.

decaBDE: One value for Cytochrome P450 1A1 Tissue Concentration in the 0 mg/kg group and one value for Cytochrome P450 1A1 Tissue Concentration in the 1 umol/kg group were excluded because they were outliers.

HBCD: One value for Cytochrome P450 1A2 Concentration in the 0 umol/kg group, one value for Cytochrome P450 1A1 Concentration in the 10 umol/kg group, one value for UDP Glucuronosyltransferase 1 Concentration in the 100 umol/kg group, and one value for Cytochrome P450 1A2 Tissue Concentration in the 1000 umol/kg group were excluded because they were outliers.

TBB: One value for Cytochrome P450 Concentration in the 0 umol/kg group, one value for Cytochrome P450 1A1 Tissue Concentration in the 0 umol/kg group, one value for UDP Glucuronosyltransferase 1 Concentration in the 0 umol/kg group, one value for Cytochrome P450 2B1 Tissue Concentration in the 0.1 umol/kg group, one value for Cytochrome P450 1A1 Concentration in the 1 umol/kg group, one value for Cytochrome P450 1A1 Tissue Concentration in the 1 umol/kg group, one value for UDP Glucuronosyltransferase 1 Tissue Concentration in the 1 umol/kg group, and one value for UDP Glucuronosyltransferase 1 Tissue Concentration in the 1000 umol/kg group were excluded because they were outliers.

TBBPA-DBPE: One value for Cytochrome P450 1A1 Tissue Concentration in the 0 umol/kg group, one value for Cytochrome P450 1A2 Concentration in the 0 umol/kg group, one value for Cytochrome P450 1A1 Concentration in the 10 umol/kg group, one value for Cytochrome P450 1A1 Tissue Concentration in the 10 umol/kg group, one value for Cytochrome P450 1A1 Concentration in the 100 umol/kg group, and one value for Cytochrome P450 1A1 Tissue Concentration in the 100 umol/kg group were excluded because they were outliers.

BTBPE: One value for UDP Glucuronosyltransferase 1 Tissue Concentration in the 100 umol/kg group was excluded because it was an outlier.

HCDBCO: One value for Cytochrome P450 1A2 Concentration in the 1 umol/kg group, one value for Cytochrome P450 1A2 Tissue Concentration in the 1 umol/kg group, one value for UDP Glucuronosyltransferase 1 Concentration in the 1 umol/kg group, and one value for Cytochrome P450 1A2 Concentration in the 1000 umol/kg group were excluded because they were outliers.

** END OF REPORT **