

SGS

AXYS

2045 Mills Road West

TEL: (250) 655-5800

Sidney, BC, Canada V8L5X2

TOLL-FREE: 1-888-373-0881

SGS AXYS Client No.: 4066

Client Address: Tetra Tech, Inc. - Pacific Guardian Ctr.
737 Bishop St., Suite 2340, Mauka Tower
Honolulu, HI, US, 96813-3201

The SGS AXYS contact for these data is Dale Robinson.

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"The sample(s) to which the findings recorded herein (the "Findings") relate was[were] drawn and [or] provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is[are] said to be extracted."

BATCH SUMMARY

Batch ID: WG87963	Date: 07-Dec-2023
Analysis Type: Polybrominated Diphenylether	Matrix Type: Solid
BATCH MAKEUP	
Contract: 4066 Samples: L40563-1 LAHAINA ASH DU-1	Blank: WG87963-101 Reference or Spike: WG87963-102 Duplicate:
Comments: 1. Data are considered final. 2. Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data. 3. Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples. 4. Lock mass interference was observed under PBDPE 209/209L for the field sample, as indicated by 'G' flag on report. Sample data are not considered significantly affected.	

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February 2017

FQA-006 Rev. 4. 20-Sep-2013

4066

Project #: 103S864023138

Samples Intact

SGS AXYS

SGS AXYS METHOD MLA-033 Rev 06

Form 1A

BROMINATED DIPHENYLETHER CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
LAHAINA ASH DU-1
Sample Collection:
08-Nov-2023 11:00

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4066

Project No.

DOH MAUI WILDFIRE - LAHAINA ASH DU-1

Lab Sample I.D.:

L40563-1

Matrix: SOLID

Sample Size: 9.71 g (dry)

Sample Receipt Date: 17-Nov-2023

Initial Calibration Date: 09-Aug-2023

Extraction Date: 01-Dec-2023

Instrument ID: HR GC/MS

Analysis Date: 06-Dec-2023 Time: 13:01:55

GC Column ID: DB5HT

Extract Volume (uL): 50

Sample Data Filename: BE31_195 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: BE31_195 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: BE31_195 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 2.80

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
2,4-DiBDE	7			18.9	0.103 (Q)	0.49	0.935
2,4'-DiBDE	8	8 + 11		34.0	0.103 (Q)	0.51	0.964
2,6-DiBDE	10		J	0.204	0.103 (Q)	0.48	0.877
3,3'-DiBDE	11	8 + 11					
3,4-DiBDE	12	12 + 13		17.9	0.103 (Q)	0.52	0.980
3,4'-DiBDE	13	12 + 13					
4,4'-DiBDE	15			37.1	0.103 (Q)	0.51	1.001
2,2',4-TriBDE	17	17 + 25		166	1.16 (S)	1.02	0.975
2,3',4-TriBDE	25	17 + 25					
2,4,4'-TriBDE	28	28 + 33		197	0.931 (S)	1.02	1.001
2,4,6-TriBDE	30		U		1.31 (S)		
2,4',6-TriBDE	32		J	1.88	0.991 (S)	1.01	0.958
2',3,4-TriBDE	33	28 + 33					
3,3',4-TriBDE	35		J	4.87	0.727 (S)	1.02	1.016
3,4,4'-TriBDE	37			14.9	0.666 (S)	1.03	1.035
2,2',4,4'-TeBDE	47			1420	0.103 (Q)	0.68	1.001
2,2',4,5'-TeBDE	49			218	0.103 (Q)	0.68	0.977
2,2',4,6'-TeBDE	51			26.3	0.103 (Q)	0.71	0.970
2,3',4,4'-TeBDE	66			110	0.103 (Q)	0.68	1.020
2,3',4',6-TeBDE	71			26.3	0.103 (Q)	0.71	0.982
2,4,4',6-TeBDE	75		J	4.87	0.103 (Q)	0.72	0.965
3,3',4,4'-TeBDE	77		J	2.09	0.103 (Q)	0.63	1.001
3,3',4,5'-TeBDE	79		R J	1.86	0.103 (Q)	0.99	1.012
2,2',3,4,4'-PeBDE	85			24.1	0.355 (S)	1.06	0.993
2,2',4,4',5-PeBDE	99			1070	0.279 (S)	1.03	1.000
2,2',4,4',6-PeBDE	100			191	0.206 (S)	1.04	1.000
2,3,3',4,4'-PeBDE	105		U		0.474 (S)		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
2,3,4,5,6-PeBDE	116		U		0.792 (S)		
2,3',4,4',6-PeBDE	119	119 + 120		5.38	0.409 (S)	1.07	1.010
2,3',4,5,5'-PeBDE	120	119 + 120					
3,3',4,4',5-PeBDE	126		J	0.551	0.213 (S)	1.12	1.000
2,2',3,3',4,4'-HxBDE	128		R J	4.05	1.05 (S)	1.31	1.085
2,2',3,4,4',5'-HxBDE	138	138 + 166		6.82	0.416 (S)	0.84	1.042
2,2',3,4,4',6'-HxBDE	140		J	2.33	0.267 (S)	0.75	1.021
2,2',4,4',5,5'-HxBDE	153			66.3	0.278 (S)	0.76	1.000
2,2',4,4',5,6'-HxBDE	154			54.6	0.218 (S)	0.78	1.000
2,2',4,4',6,6'-HxBDE	155		J	4.23	0.195 (S)	0.79	0.983
2,3,4,4',5,6-HxBDE	166	138 + 166					
2,2',3,4,4',5,6-HpBDE	181		R J	1.21	0.914 (S)	0.82	1.044
2,2',3,4,4',5,6-HpBDE	183		B	10.5	0.534 (S)	1.07	1.000
2,3,3',4,4',5,6-HpBDE	190		U		1.67 (S)		
2,2',3,4,4',5,5',6-OcBDE	203			21.1	1.07 (S)	0.83	1.011
2,2',3,3',4,4',5,5',6-NoBDE	206		MAX	68.7	2.27 (S)	1.03	1.109
2,2',3,3',4,4',5,6,6'-NoBDE	207		B MAX	76.1	3.14 (S)	1.14	1.094
2,2',3,3',4,5,5',6,6'-NoBDE	208		B MAX	38.8	3.32 (S)	1.00	1.086
2,2',3,3',4,4',5,5',6,6'-DeBDE	209		G	1000	15.4 (S)	0.82	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; R = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; J = concentration less than limit of quantification; G = lock mass interference present; MAX = concentration is an estimated maximum value.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

For Axys Internal Use Only [XSL Template: Form16141A.xsl; Created: 07-Dec-2023 17:04:19; Application: XMLTransformer-1.18.46;
Report Filename: 1614_PBDPE_1614LS_L40563-1_Form1A_BE31_195S6_SJ3354567.html; Workgroup: WG87963; Design ID: 5275]

BROMINATED DIPHENYLETHER ANALYSIS REPORT

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4066
Matrix: SOLID
Sample Receipt Date: 17-Nov-2023
Extraction Date: 01-Dec-2023
Analysis Date: 06-Dec-2023 Time: 13:01:55
Extract Volume (uL): 50
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. DOH MAUI WILDFIRE - LAHAINA ASH DU-1
Lab Sample I.D.: L40563-1
Sample Size: 9.71 g (dry)
Initial Calibration Date: 09-Aug-2023
Instrument ID: HR GC/MS
GC Column ID: DB5HT
Sample Data Filename: BE31_195 S: 6
Blank Data Filename: BE31_195 S: 5
Cal. Ver. Data Filename: BE31_195 S: 1
% Moisture: 2.80

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-4,4'-DiBDE	15L			2000	1800	90.1	0.52	0.689
13C12-2,4,4'-TriBDE	28L			2000	1840	91.8	1.00	0.844
13C12-2,2',4,4'-TeBDE	47L			2000	1670	83.4	1.56	0.989
13C12-3,3',4,4'-TeBDE	77L			2000	1880	94.1	1.54	1.039
13C12-2,2',4,4',5-PeBDE	99L			2000	2280	114	1.03	1.124
13C12-2,2',4,4',6-PeBDE	100L			2000	2060	103	1.05	1.094
13C12-3,3',4,4',5-PeBDE	126L			2000	1940	97.0	1.06	1.184
13C12-2,2',4,4',5,5'-HxBDE	153L			2000	1630	81.4	1.38	0.887
13C12-2,2',4,4',5,6'-HxBDE	154L			2000	1610	80.3	1.33	0.859
13C12-2,2',3,4,4',5,6-HpBDE	183L			2000	1200	60.1	1.02	0.968
13C12-2,2',3,3',4,4',6,6'-OcBDE	197L			2000	1780	88.8	0.84	1.060
13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L		G	20000	6550	32.7	1.30	1.079
CLEANUP STANDARD								
13C12-2,2',3,4,4',6-HxBDE	139L			2000	1440	71.9	1.41	1.012

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

SGS AXYS METHOD MLA-033 Rev 06

Form 1A

CLIENT SAMPLE NO.

Lab Blank

Sample Collection:

N/A

BROMINATED DIPHENYLETHER CONGENER ANALYSIS REPORT

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4066

Project No.

N/A

Lab Sample I.D.:

WG87963-101

Matrix: SOLID

Sample Size: 10.0 g

Sample Receipt Date: N/A

Initial Calibration Date: 09-Aug-2023

Extraction Date: 01-Dec-2023

Instrument ID: HR GC/MS

Analysis Date: 06-Dec-2023 Time: 12:03:08

GC Column ID: DB5HT

Extract Volume (uL): 50

Sample Data Filename: BE31_195 S: 5

Injection Volume (uL): 1.0

Blank Data Filename: BE31_195 S: 5

Dilution Factor: N/A

Cal. Ver. Data Filename: BE31_195 S: 1

Concentration Units: pg/g

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
2,4-DiBDE	7		U		0.100 (Q)		
2,4'-DiBDE	8	8 + 11	U		0.100 (Q)		
2,6-DiBDE	10		U		0.100 (Q)		
3,3'-DiBDE	11	8 + 11					
3,4-DiBDE	12	12 + 13	U		0.100 (Q)		
3,4'-DiBDE	13	12 + 13					
4,4'-DiBDE	15		U		0.100 (Q)		
2,2',4-TriBDE	17	17 + 25	U		0.100 (Q)		
2,3',4-TriBDE	25	17 + 25					
2,4,4'-TriBDE	28	28 + 33	R J	0.155	0.100 (Q)	0.79	1.002
2,4,6-TriBDE	30		U		0.103 (S)		
2,4',6-TriBDE	32		U		0.100 (Q)		
2',3,4-TriBDE	33	28 + 33					
3,3',4-TriBDE	35		U		0.100 (Q)		
3,4,4'-TriBDE	37		U		0.100 (Q)		
2,2',4,4'-TeBDE	47		J	4.44	0.100 (Q)	0.64	1.001
2,2',4,5'-TeBDE	49		R J	0.101	0.100 (Q)	0.97	0.977
2,2',4,6'-TeBDE	51		U		0.100 (Q)		
2,3',4,4'-TeBDE	66		J	0.144	0.100 (Q)	0.69	1.020
2,3',4',6-TeBDE	71		U		0.100 (Q)		
2,4,4',6-TeBDE	75		U		0.100 (Q)		
3,3',4,4'-TeBDE	77		U		0.100 (Q)		
3,3',4,5'-TeBDE	79		U		0.100 (Q)		
2,2',3,4,4'-PeBDE	85		U		0.100 (Q)		
2,2',4,4',5-PeBDE	99		J	3.22	0.100 (Q)	1.14	1.001
2,2',4,4',6-PeBDE	100		J	0.744	0.100 (Q)	0.94	1.000
2,3,3',4,4'-PeBDE	105		U		0.100 (Q)		

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This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
2,3,4,5,6-PeBDE	116		U		0.119 (S)		
2,3',4,4',6-PeBDE	119	119 + 120	U		0.100 (Q)		
2,3',4,5,5'-PeBDE	120	119 + 120					
3,3',4,4',5-PeBDE	126		U		0.100 (Q)		
2,2',3,3',4,4'-HxBDE	128		U		0.824 (S)		
2,2',3,4,4',5'-HxBDE	138	138 + 166	U		0.450 (S)		
2,2',3,4,4',6'-HxBDE	140		U		0.288 (S)		
2,2',4,4',5,5'-HxBDE	153		R J	0.734	0.328 (S)	0.63	1.000
2,2',4,4',5,6'-HxBDE	154		R J	0.356	0.215 (S)	0.89	1.001
2,2',4,4',6,6'-HxBDE	155		U		0.211 (S)		
2,3,4,4',5,6-HxBDE	166	138 + 166					
2,2',3,4,4',5,6-HpBDE	181		U		0.133 (S)		
2,2',3,4,4',5',6-HpBDE	183		R J	2.13	0.100 (Q)	0.83	1.000
2,3,3',4,4',5,6-HpBDE	190		U		0.244 (S)		
2,2',3,4,4',5,5',6-OcBDE	203		R J	1.41	0.632 (S)	0.94	1.011
2,2',3,3',4,4',5,5',6-NoBDE	206		R	5.20	2.19 (S)	1.29	1.109
2,2',3,3',4,4',5,6,6'-NoBDE	207		R	7.61	3.02 (S)	1.27	1.094
2,2',3,3',4,5,5',6,6'-NoBDE	208		MAX	5.75	3.19 (S)	0.90	1.087
2,2',3,3',4,4',5,5',6,6'-DeBDE	209		J	31.4	8.26 (S)	0.84	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; R = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than limit of quantification; MAX = concentration is an estimated maximum value.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

BROMINATED DIPHENYLETHER ANALYSIS REPORT

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4066
Matrix: SOLID
Sample Receipt Date: N/A
Extraction Date: 01-Dec-2023
Analysis Date: 06-Dec-2023 Time: 12:03:08
Extract Volume (uL): 50
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. N/A
Lab Sample I.D.: WG87963-101
Sample Size: 10.0 g
Initial Calibration Date: 09-Aug-2023
Instrument ID: HR GC/MS
GC Column ID: DB5HT
Sample Data Filename: BE31_195 S: 5
Blank Data Filename: BE31_195 S: 5
Cal. Ver. Data Filename: BE31_195 S: 1

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-4,4'-DiBDE	15L			2000	1430	71.6	0.52	0.689
13C12-2,4,4'-TriBDE	28L			2000	1470	73.7	1.03	0.844
13C12-2,2',4,4'-TeBDE	47L			2000	1450	72.6	1.55	0.989
13C12-3,3',4,4'-TeBDE	77L			2000	1610	80.5	1.59	1.039
13C12-2,2',4,4',5-PeBDE	99L			2000	1890	94.6	1.04	1.123
13C12-2,2',4,4',6-PeBDE	100L			2000	1770	88.7	1.05	1.094
13C12-3,3',4,4',5-PeBDE	126L			2000	1650	82.6	1.04	1.184
13C12-2,2',4,4',5,5'-HxBDE	153L			2000	1370	68.5	1.47	0.887
13C12-2,2',4,4',5,6'-HxBDE	154L			2000	1270	63.6	1.39	0.858
13C12-2,2',3,4,4',5,6'-HpBDE	183L			2000	1110	55.7	1.01	0.968
13C12-2,2',3,3',4,4',6,6'-OcBDE	197L			2000	1570	78.5	0.85	1.060
13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L			20000	9350	46.8	1.23	1.080
CLEANUP STANDARD								
13C12-2,2',3,4,4',6-HxBDE	139L			2000	1240	61.8	1.38	1.012

- (1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

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Report Filename: 1614_PBDPE_1614LS_WG87963-101_Form2_BE31_195S5_SJ3354565.html; Workgroup: WG87963; Design ID: 5275]

BROMINATED DIPHENYLETHER ONGOING PRECISION AND RECOVERY (OPR)

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4066	Lab Sample I.D.:	WG87963-102
Matrix:	SOLID	Initial Calibration Date:	09-Aug-2023
Extraction Date:	01-Dec-2023	Instrument ID:	HR GC/MS
Analysis Date:	06-Dec-2023	GC Column ID:	DB5HT
Extract Volume (uL):	50	OPR Data Filename:	BE31_195 S: 2
Injection Volume (uL):	1.0	Blank Data Filename:	BE31_195 S: 5
Dilution Factor:	N/A	Cal. Ver. Data Filename:	BE31_195 S: 1

CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS ² (ng/mL)	% RECOVERY
2,4,4'-TriBDE	28	28 + 33		1.05	97.4	87.1	48.7 - 146	89.4
2',3,4'-TriBDE	33	28 + 33						
2,2',4,4'-TeBDE	47			0.68	50.0	52.7	25.0 - 75.0	105
2,2',4,4',5-PeBDE	99			1.04	50.0	49.1	25.0 - 75.0	98.2
2,2',4,4',6-PeBDE	100			1.01	50.0	49.3	25.0 - 75.0	98.6
2,2',4,4',5,5'-HxBDE	153			0.75	50.0	49.2	25.0 - 75.0	98.4
2,2',4,4',5,6'-HxBDE	154			0.76	50.0	49.2	25.0 - 75.0	98.5
2,2',3,4,4',5,6'-HpBDE	183			0.99	50.0	49.5	25.0 - 75.0	99.1
2,2',3,3',4,4',5,5',6,6'-DeBDE	209			0.86	500	511	250 - 750	102

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for OPR as specified in Table 6, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

BROMINATED DIPHENYLETHER ONGOING PRECISION AND RECOVERY (OPR)

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4066	Lab Sample I.D.:	WG87963-102
Matrix:	SOLID	Initial Calibration Date:	09-Aug-2023
Extraction Date:	01-Dec-2023	Instrument ID:	HR GC/MS
Analysis Date:	06-Dec-2023	GC Column ID:	DB5HT
Time:	09:06:56		
Extract Volume (uL):	50	OPR Data Filename:	BE31_195 S: 2
Injection Volume (uL):	1.0	Blank Data Filename:	BE31_195 S: 5
Dilution Factor:	N/A	Cal. Ver. Data Filename:	BE31_195 S: 1

CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS ³ (ng/mL)	% RECOVERY
13C12-4,4'-DiBDE	15L			0.53	100	60.7	30.0 - 200	60.7
13C12-2,4,4'-TriBDE	28L			0.98	100	62.5	30.0 - 200	62.5
13C12-2,2',4,4'-TeBDE	47L			1.52	100	64.0	30.0 - 200	64.0
13C12-3,3',4,4'-TeBDE	77L			1.54	100	70.8	30.0 - 200	70.8
13C12-2,2',4,4',5-PeBDE	99L			1.05	100	79.8	30.0 - 200	79.8
13C12-2,2',4,4',6-PeBDE	100L			1.06	100	76.0	30.0 - 200	76.0
13C12-3,3',4,4',5-PeBDE	126L			1.01	100	68.7	30.0 - 200	68.7
13C12-2,2',4,4',5,5'-HxBDE	153L			1.39	100	65.8	30.0 - 200	65.8
13C12-2,2',4,4',5,6'-HxBDE	154L			1.38	100	61.9	30.0 - 200	61.9
13C12-2,2',3,4,4',5,6-HpBDE	183L			1.02	100	49.7	30.0 - 200	49.7
13C12-2,2',3,3',4,4',6,6'-OcBDE	197L			0.79	100	78.6	30.0 - 200	78.6
13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L			1.23	1000	440	100 - 2000	44.0

CLEANUP STANDARD

13C12-2,2',3,4,4',6-HxBDE	139L			1.34	100	59.0	30.0 - 200	59.0
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(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report.
(3) Contract-required limits for OPR as specified in Table 6, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Henry Huang_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

BROMINATED DIPHENYLETHER INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 09-Aug-2023

Instrument ID: HR GC/MS

GC Column ID: DB5HT

CS0 Data Filename: N/A
CS1 Data Filename: BE31_161E S: 4
CS2 Data Filename: BE31_161E S: 3
CS3 Data Filename: BE31_161E S: 2
CS4 Data Filename: BE31_161E S: 6
CS5 Data Filename: BE31_161E S: 5
CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV ² (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
2,4,4'-TriBDE	28	28 + 33			0.99	1.00	1.00	1.02	0.86	0.98	6.79
2',3,4-TriBDE	33	28 + 33									
2,2',4,4'-TeBDE	47				1.03	1.04	1.03	1.09	1.01	1.04	2.65
2,2',4,4',5-PeBDE	99				1.08	1.05	1.04	1.08	1.06	1.06	1.69
2,2',4,4',6-PeBDE	100				1.13	1.10	1.07	1.11	1.04	1.09	3.41
2,2',4,4',5,5'-HxBDE	153				0.94	0.94	1.01	1.01	0.98	0.98	3.70
2,2',4,4',5,6'-HxBDE	154				0.99	0.97	0.97	1.00	0.99	0.98	1.46
2,2',3,4,4',5',6-HpBDE	183				0.54	0.47	0.47	0.51	0.50	0.50	6.28
2,2',3,3',4,4',5,5',6,6'-DeBDE	209				1.23	1.25	1.20	1.26	1.03	1.20	7.88

(1) Where applicable, custom lab flags have been used on this report.
(2) For contract CV specifications, see Section 10.4.4, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Leanne Henley_____

BROMINATED DIPHENYLETHER INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 09-Aug-2023

Instrument ID: HR GC/MS

GC Column ID: DB5HT

CS0 Data Filename: N/A
CS1 Data Filename: BE31_161E S: 4
CS2 Data Filename: BE31_161E S: 3
CS3 Data Filename: BE31_161E S: 2
CS4 Data Filename: BE31_161E S: 6
CS5 Data Filename: BE31_161E S: 5
CS6 Data Filename: N/A

				RELATIVE RESPONSE (RR)								
				CS0	CS1	CS2	CS3	CS4	CS5	CS6	MEAN RR	CV ³ (%RSD)
COMPOUND	IUPAC NO. ¹	CO- ELUTIONS	LAB FLAG ²									
13C12-2,4,4'-TriBDE	28L				1.19	1.13	1.06	1.30	1.45		1.23	12.4
13C12-2,2',4,4'-TeBDE	47L				0.95	0.91	0.86	1.05	1.12		0.98	10.8
13C12-2,2',4,4',5-PeBDE	99L				0.59	0.56	0.55	0.67	0.83		0.64	18.2
13C12-2,2',4,4',6-PeBDE	100L				0.86	0.81	0.79	0.95	1.12		0.91	14.6
13C12-2,2',4,4',5,5'-HxBDE	153L				2.39	2.41	2.40	2.76	3.27		2.65	14.4
13C12-2,2',4,4',5,6'-HxBDE	154L				3.75	3.74	3.85	4.12	4.54		4.00	8.51
13C12-2,2',3,4,4',5,6-HpBDE	183L				1.98	2.10	2.14	2.54	3.19		2.39	20.8
13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L				0.45	0.42	0.56	1.42	1.44		0.86	61.0
CLEAN-UP STANDARD												
13C12-2,2',3,4,4',6-HxBDE	139L				1.69	1.75	1.72	1.72	1.61		1.70	3.24

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report.
(3) For contract CV specifications, see Section 10.5.6, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Leanne Henley_____

BROMINATED DIPHENYLETHER INITIAL CALIBRATION ION ABUNDANCE RATIOS

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 09-Aug-2023

Instrument ID: HR GC/MS

GC Column ID: DB5HT

CS0 Data Filename: N/A
CS1 Data Filename: BE31_161E S: 4
CS2 Data Filename: BE31_161E S: 3
CS3 Data Filename: BE31_161E S: 2
CS4 Data Filename: BE31_161E S: 6
CS5 Data Filename: BE31_161E S: 5
CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO							QC LIMITS ²
					CS0	CS1	CS2	CS3	CS4	CS5	CS6	
2,4,4'-TriBDE	28	28 + 33		M+2/M+4		1.04	0.99	1.00	1.01	1.00		0.88-1.18
2',3,4-TriBDE	33	28 + 33										
2,2',4,4'-TeBDE	47			M+2/M+4		0.74	0.67	0.69	0.69	0.77		0.60-0.81
2,2',4,4',5-PeBDE	99			M+4/M+6		0.92	1.12	1.08	1.03	1.03		0.88-1.18
2,2',4,4',6-PeBDE	100			M+4/M+6		1.04	1.02	1.04	1.03	1.03		0.88-1.18
2,2',4,4',5,5'-HxBDE	153			M+4/M+6		0.67	0.73	0.77	0.77	0.76		0.65-0.89
2,2',4,4',5,6'-HxBDE	154			M+4/M+6		0.74	0.77	0.77	0.76	0.76		0.65-0.89
2,2',3,4,4',5',6-HpBDE	183			M+6/M+8		1.01	1.02	1.01	1.04	1.02		0.88-1.18
2,2',3,3',4,4',5,5',6,6'-DeBDE	209			M+8/M+10		0.79	0.80	0.86	0.86	0.80		0.73-0.99

(1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8 Method 1614 for m/z specifications and ion abundance ratio control limits; QC Limits apply to CS2 to CS5 only.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Leanne Henley_____

BROMINATED DIPHENYLETHER INITIAL CALIBRATION ION ABUNDANCE RATIOS

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 09-Aug-2023

Instrument ID: HR GC/MS

GC Column ID: DB5HT

CS0 Data Filename: N/A
CS1 Data Filename: BE31_161E S: 4
CS2 Data Filename: BE31_161E S: 3
CS3 Data Filename: BE31_161E S: 2
CS4 Data Filename: BE31_161E S: 6
CS5 Data Filename: BE31_161E S: 5
CS6 Data Filename: N/A

Labeled Compound	IUPAC No. ¹	Co-elutions	Lab Flag ²	M/Z's Forming Ratio ³	ION Abundance Ratio							QC Limits ³
					CS0	CS1	CS2	CS3	CS4	CS5	CS6	
13C12-2,4,4'-TriBDE	28L			M+2/M+4		1.03	1.00	1.00	1.02	1.04		0.88-1.18
13C12-2,2',4,4'-TeBDE	47L			M+4/M+6		1.56	1.52	1.51	1.53	1.54		1.31-1.77
13C12-2,2',4,4',5-PeBDE	99L			M+4/M+6		1.07	1.03	1.07	1.07	1.08		0.88-1.18
13C12-2,2',4,4',6-PeBDE	100L			M+4/M+6		1.07	1.05	1.06	1.05	1.08		0.88-1.18
13C12-2,2',4,4',5,5'-HxBDE	153L			M+6/M+8		1.39	1.38	1.41	1.38	1.39		1.16-1.58
13C12-2,2',4,4',5,6'-HxBDE	154L			M+6/M+8		1.40	1.37	1.39	1.39	1.41		1.16-1.58
13C12-2,2',3,4,4',5,6-HpBDE	183L			M+6/M+8		1.06	1.02	1.01	1.04	1.06		0.88-1.18
13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L			M+10/M+12		1.22	1.19	1.24	1.25	1.23		1.05-1.41
Clean-up Standard												
13C12-2,2',3,4,4',6-HxBDE	139L			M+6/M+8		1.39	1.39	1.39	1.39	1.37		1.16-1.58

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report.
(3) See Table 8 Method 1614 for m/z specifications and ion abundance ratio control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.
Signed: _____Leanne Henley_____

BROMINATED DIPHENYLETHER CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:

09-Aug-2023

VER Data Filename:

BE31_195 S: 1

Instrument ID:

HR GC/MS

Analysis Date:

06-Dec-2023

GC Column ID:

DB5HT

Analysis Time:

08:10:05

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE ⁴ (ng/mL)
2,4,4'-TriBDE	28	28 + 33		M+2/M+4	1.03	0.88-1.18	90.1	68.2 - 127
2',3,4-TriBDE	33	28 + 33						
2,2',4,4'-TeBDE	47			M+2/M+4	0.68	0.60-0.81	53.1	35.0 - 65.0
2,2',4,4',5-PeBDE	99			M+4/M+6	1.03	0.88-1.18	50.9	35.0 - 65.0
2,2',4,4',6-PeBDE	100			M+4/M+6	1.04	0.88-1.18	51.0	35.0 - 65.0
2,2',4,4',5,5'-HxBDE	153			M+4/M+6	0.77	0.65-0.89	51.7	35.0 - 65.0
2,2',4,4',5,6'-HxBDE	154			M+4/M+6	0.76	0.65-0.89	51.6	35.0 - 65.0
2,2',3,4,4',5',6-HpBDE	183			M+6/M+8	1.03	0.88-1.18	51.0	35.0 - 65.0
2,2',3,3',4,4',5,5',6,6'-DeBDE	209			M+8/M+10	0.81	0.73-0.99	472	350 - 650

(1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1614, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1614.
(4) Contract-required concentration range as specified in Table 6, Method 1614, under VER.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Angela Schlak_____

BROMINATED DIPHENYLETHER CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:

09-Aug-2023

VER Data Filename:

BE31_195 S: 1

Instrument ID:

HR GC/MS

Analysis Date:

06-Dec-2023

GC Column ID:

DB5HT

Analysis Time:

08:10:05

LABELLED COMPOUND	IUPAC NO. ¹	CO- ELUTIONS	LAB FLAG ²	MZ's FORMING RATIO ³	ION ABUND. RATIO	QC LIMITS ⁴	CONC. FOUND (ng/mL)	CONC. RANGE ⁵ (ng/mL)
13C12-2,4,4'-TriBDE	28L			M+2/M+4	1.02	0.88-1.18	94.9	50.0 - 150
13C12-2,2',4,4'-TeBDE	47L			M+4/M+6	1.55	1.31-1.77	92.0	50.0 - 150
13C12-2,2',4,4',5-PeBDE	99L			M+4/M+6	1.05	0.88-1.18	117	50.0 - 150
13C12-2,2',4,4',6-PeBDE	100L			M+4/M+6	1.05	0.88-1.18	108	50.0 - 150
13C12-2,2',4,4',5,5'-HxBDE	153L			M+6/M+8	1.37	1.16-1.58	70.9	50.0 - 150
13C12-2,2',4,4',5,6'-HxBDE	154L			M+6/M+8	1.39	1.16-1.58	65.1	50.0 - 150
13C12-2,2',3,4,4',5,6-HpBDE	183L			M+6/M+8	1.04	0.88-1.18	61.3	50.0 - 150

CLEAN-UP STANDARD

13C12-2,2',3,4,4',6-HxBDE	139L			M+6/M+8	1.39	1.16-1.58	67.0	50.0 - 150
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- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1614, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1614.
- (5) Contract-required concentration range as specified in Table 6, Method 1614, under VER.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Angela Schlak_____

BROMINATED DIPHENYLETHER RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:

09-Aug-2023

VER Data Filename:

BE31_195 S: 1

Instrument ID:

HR GC/MS

Analysis Date:

06-Dec-2023

GC Column ID:

DB5HT

Analysis Time:

08:10:05

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS ³
2,4,4'-TriBDE	28	28 + 33		13C12-2,4,4'-TriBDE	28L	1.0000	0.9986-1.0021
2',3,4-TriBDE	33	28 + 33					
2,2',4,4'-TeBDE	47			13C12-2,2',4,4'-TeBDE	47L	1.0007	0.9988-1.0018
2,2',4,4',5-PeBDE	99			13C12-2,2',4,4',5-PeBDE	99L	1.0000	0.9990-1.0016
2,2',4,4',6-PeBDE	100			13C12-2,2',4,4',6-PeBDE	100L	1.0000	0.9989-1.0016
2,2',4,4',5,5'-HxBDE	153			13C12-2,2',4,4',5,5'-HxBDE	153L	1.0005	0.9991-1.0014
2,2',4,4',5,6'-HxBDE	154			13C12-2,2',4,4',5,6'-HxBDE	154L	1.0005	0.9990-1.0015
2,2',3,4,4',5,6'-HpBDE	183			13C12-2,2',3,4,4',5,6'-HpBDE	183L	1.0000	0.9991-1.0013
2,2',3,3',4,4',5,5',6,6'-DeBDE	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L	1.0004	0.9993-1.0010

(1) Where applicable, custom lab flags have been used on this report.
(2) Suffix "L" indicates labeled compound
(3) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Angela Schlak_____

BROMINATED DIPHENYLETHER RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:

09-Aug-2023

VER Data Filename:

BE31_195 S: 1

Instrument ID:

HR GC/MS

Analysis Date:

06-Dec-2023

GC Column ID:

DB5HT

Analysis Time:

08:10:05

LABELED COMPOUND	IUPAC NO. ¹	CO- ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS ³
13C12-2,4,4'-TriBDE	28L			13C12-3,3',4,5'-TeBDE	79L	0.8439	0.8349-0.8526
13C12-2,2',4,4'-TeBDE	47L			13C12-3,3',4,5'-TeBDE	79L	0.9885	0.9823-0.9941
13C12-2,2',4,4',5-PeBDE	99L			13C12-3,3',4,5'-TeBDE	79L	1.1235	1.1144-1.1321
13C12-2,2',4,4',6-PeBDE	100L			13C12-3,3',4,5'-TeBDE	79L	1.0937	1.0849-1.1026
13C12-2,2',4,4',5,5'-HxBDE	153L			13C12-2,2',3,4,4',5,5'-HpBDE	180L	0.8867	0.8807-0.8933
13C12-2,2',4,4',5,6'-HxBDE	154L			13C12-2,2',3,4,4',5,5'-HpBDE	180L	0.8584	0.8521-0.8647
13C12-2,2',3,4,4',5,6'-HpBDE	183L			13C12-2,2',3,4,4',5,5'-HpBDE	180L	0.9681	0.9639-0.9723

CLEANUP STANDARD

13C12-2,2',3,4,4',6-HxBDE	139L			13C12-2,2',4,4',5,5'-HxBDE	153L	1.0122	1.0071-1.0166
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- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Angela Schlak_____

SGS AXYS METHOD MLA-033 Rev 06

Form 3A

BROMINATED DIPHENYLETHER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 09-Aug-2023

CAL Data Filename: BE31_195 S: 1

Instrument ID: HR GC/MS

Analysis Date: 06-Dec-2023

GC Column ID: DB5HT

Analysis Time: 08:10:05

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,4-DiBDE	7			0.54	M/M+2	0.52	0.43-0.59	0.935	0.922 - 0.948
2,4'-DiBDE	8	8 + 11		0.72	M/M+2	0.52	0.43-0.59	0.960	0.951 - 0.968
2,6-DiBDE	10			0.44	M/M+2	0.52	0.43-0.59	0.877	0.860 - 0.894
3,3'-DiBDE	11	8 + 11							
3,4-DiBDE	12	12 + 13		0.81	M/M+2	0.52	0.43-0.59	0.978	0.968 - 0.985
3,4'-DiBDE	13	12 + 13							
4,4'-DiBDE	15			0.93	M/M+2	0.52	0.43-0.59	1.001	0.998 - 1.003
2,2',4-TriBDE	17	17 + 25		0.78	M+2/M+4	1.03	0.88-1.18	0.975	0.969 - 0.983
2,3',4-TriBDE	25	17 + 25							
2,4,6-TriBDE	30			0.70	M+2/M+4	1.03	0.88-1.18	0.904	0.890 - 0.918
2,4',6-TriBDE	32			0.92	M+2/M+4	1.02	0.88-1.18	0.957	0.950 - 0.964
3,3',4-TriBDE	35			1.25	M+2/M+4	1.03	0.88-1.18	1.016	1.009 - 1.023
3,4,4'-TriBDE	37			1.36	M+2/M+4	1.03	0.88-1.18	1.034	1.027 - 1.041
2,2',4,5'-TeBDE	49			0.72	M+2/M+4	0.68	0.60-0.81	0.977	0.972 - 0.984
2,2',4,6'-TeBDE	51			0.97	M+2/M+4	0.68	0.60-0.81	0.970	0.964 - 0.976
2,3',4,4'-TeBDE	66			0.61	M+2/M+4	0.69	0.60-0.81	1.020	1.014 - 1.026
2,3',4',6'-TeBDE	71			0.66	M+2/M+4	0.69	0.60-0.81	0.982	0.977 - 0.989
2,4,4',6'-TeBDE	75			0.87	M+2/M+4	0.70	0.60-0.81	0.965	0.959 - 0.971
3,3',4,4'-TeBDE	77			1.15	M+2/M+4	0.68	0.60-0.81	1.001	0.999 - 1.002
3,3',4,5'-TeBDE	79			1.06	M+2/M+4	0.69	0.60-0.81	1.012	1.007 - 1.018
2,2',3,4,4'-PeBDE	85			0.71	M+4/M+6	1.03	0.88-1.18	0.992	0.988 - 0.998
2,3,3',4,4'-PeBDE	105			0.53	M+4/M+6	1.04	0.88-1.18	1.008	1.003 - 1.013
2,3,4,5,6-PeBDE	116			0.32	M+4/M+6	1.02	0.88-1.18	1.009	1.004 - 1.014
2,3',4,4',6-PeBDE	119	119 + 120		0.62	M+4/M+6	1.03	0.88-1.18	1.010	1.004 - 1.015
2,3',4,5,5'-PeBDE	120	119 + 120							
3,3',4,4',5-PeBDE	126			1.16	M+4/M+6	1.04	0.88-1.18	1.000	0.999 - 1.001
2,2',3,3',4,4'-HxBDE	128			0.49	M+4/M+6	0.77	0.65-0.89	1.084	1.077 - 1.091
2,2',3,4,4',5'-HxBDE	138	138 + 166		0.57	M+4/M+6	0.77	0.65-0.89	1.042	1.037 - 1.046
2,2',3,4,4',6'-HxBDE	140			0.89	M+4/M+6	0.76	0.65-0.89	1.021	1.016 - 1.025
2,2',4,4',6,6'-HxBDE	155			1.21	M+4/M+6	0.76	0.65-0.89	0.983	0.978 - 0.988
2,3,4,4',5,6-HxBDE	166	138 + 166							
2,2',3,4,4',5,6-HpBDE	181			0.29	M+6/M+8	1.05	0.88-1.18	1.043	1.039 - 1.047
2,3,3',4,4',5,6-HpBDE	190			0.16	M+6/M+8	1.03	0.88-1.18	1.048	1.044 - 1.053
2,2',3,4,4',5,5',6-OcBDE	203			0.59	M+6/M+8	0.83	0.70-0.94	1.011	1.007 - 1.015
2,3,3',4,4',5,5',6-OcBDE	205			0.32	M+6/M+8	0.83	0.70-0.94	1.031	1.027 - 1.035
2,2',3,3',4,4',5,5',6-NoBDE	206			0.24	M+8/M+10	1.06	0.88-1.18	1.109	1.103 - 1.115
2,2',3,3',4,4',5,6,6'-NoBDE	207			0.17	M+8/M+10	1.02	0.88-1.18	1.094	1.088 - 1.100
2,2',3,3',4,5,5',6,6'-NoBDE	208			0.16	M+8/M+10	1.00	0.88-1.18	1.086	1.080 - 1.092

(1) Where applicable, custom lab flags have been used on this report.

(2) See Table 8, Method 1614, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Angela Schlak _____

BROMINATED DIPHENYLETHER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date:	09-Aug-2023	CAL Data Filename:	BE31_195 S: 1
Instrument ID:	HR GC/MS	Analysis Date:	06-Dec-2023
GC Column ID:	DB5HT	Analysis Time:	08:10:05

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-4,4'-DiBDE	15L			1.89	M/M+2	0.52	0.43-0.59	0.689	0.677 - 0.701
13C12-2,4,4'-TriBDE	28L			1.16	M+2/M+4	1.01	0.88-1.18	0.844	0.835 - 0.853
13C12-2,2',4,4'-TeBDE	47L			0.90	M+4/M+6	1.55	1.31-1.77	0.989	0.982 - 0.994
13C12-3,3',4,4'-TeBDE	77L			1.05	M+4/M+6	1.55	1.31-1.77	1.039	1.032 - 1.044
13C12-2,2',4,4',5-PeBDE	99L			0.74	M+4/M+6	1.05	0.88-1.18	1.123	1.114 - 1.132
13C12-2,2',4,4',6-PeBDE	100L			0.98	M+4/M+6	1.05	0.88-1.18	1.094	1.085 - 1.103
13C12-3,3',4,4',5-PeBDE	126L			0.93	M+4/M+6	1.06	0.88-1.18	1.184	1.175 - 1.193
13C12-2,2',4,4',5,5'-HxBDE	153L			1.87	M+6/M+8	1.37	1.16-1.58	0.887	0.881 - 0.893
13C12-2,2',4,4',5,6'-HxBDE	154L			2.60	M+6/M+8	1.39	1.16-1.58	0.858	0.852 - 0.865
13C12-2,2',3,4,4',5,6'-HpBDE	183L			1.46	M+6/M+8	1.04	0.88-1.18	0.968	0.964 - 0.972
13C12-2,2',3,3',4,4',6,6'-OcBDE	197L			0.86	M+6/M+8	0.83	0.70-0.94	1.060	1.054 - 1.067
13C12-2,2',3,3',4,4',5,5',6,6'-DeBDE	209L			0.36	M+10/M+12	1.25	1.05-1.41	1.080	1.075 - 1.085

ADDITIONAL STANDARD

13C12-2,2',3,4,4',5'-HxBDE	138L			0.37	M+6/M+8	1.38	1.16-1.58	1.041	1.036 - 1.046
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- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1614, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1614.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Angela Schlak_____

Page 22 of 57

Page 23 of 57

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CAIA	Alaska DEC	ANAB DOD **	ANAB ISO 17025	CAIA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	ANAB DOD **	ANAB ISO 17025	CAIA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CAIA	CAIA	Alaska DEC	ANAB DOD **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DOD **	ANAB ISO 17025
OC Pesticides	Endrin ketone	SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y		ANAB ISO 17025		Y					Y					Y							Y		
OC Pesticides		SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y								Y	Y			ANAB ISO 17025	Y	Y		Y			Y									Y	Y			
OC Pesticides		EPA 8081B	MLA-007						Y	Y					Y	Y			ANAB ISO 17025																				
OC Pesticides	Gamma-HCH (Lindane)	EPA 1699	MLA-028															ANAB ISO 17025																					
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y								Y			ANAB ISO 17025	Y	Y					Y														
OC Pesticides		SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y									Y	Y		ANAB ISO 17025	Y	Y		Y			Y										Y	Y		
OC Pesticides	Heptachlor	EPA 625	MLA-007															ANAB ISO 17025																					
OC Pesticides		EPA 8270E	MLA-007					Y	Y	Y				Y	Y	Y			ANAB ISO 17025																				
OC Pesticides		EPA 1699	MLA-028																ANAB ISO 17025																				
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y			ANAB ISO 17025	Y	Y				Y														
OC Pesticides	Heptachlor epoxide	SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y									Y	Y		ANAB ISO 17025	Y	Y				Y														
OC Pesticides		EPA 608	MLA-007																ANAB ISO 17025																				
OC Pesticides		EPA 8081B	MLA-007					Y	Y	Y				Y	Y	Y			ANAB ISO 17025												Y	Y	Y			Y	Y		
OC Pesticides	Hexachlorobenzene	EPA 1699	MLA-028															ANAB ISO 17025																					
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y								Y			ANAB ISO 17025	Y	Y					Y														
OC Pesticides		SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y								Y	Y			ANAB ISO 17025	Y	Y				Y												Y	Y	
OC Pesticides	Methoxychlor	EPA 608	MLA-007															ANAB ISO 17025																					
OC Pesticides		EPA 8081B	MLA-007					Y	Y	Y				Y	Y	Y			ANAB ISO 17025																				
OC Pesticides		EPA 1699	MLA-028																ANAB ISO 17025																				
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y			ANAB ISO 17025	Y	Y					Y													
OC Pesticides	Mirex	SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y								Y	Y			ANAB ISO 17025	Y	Y				Y														
OC Pesticides		EPA 8270E	MLA-007												Y	Y			ANAB ISO 17025																				
OC Pesticides		EPA 1699	MLA-028																ANAB ISO 17025																				
OC Pesticides	Oxychlorodane	SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y		ANAB ISO 17025	Y	Y					Y														
OC Pesticides		SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y									Y	Y		ANAB ISO 17025	Y	Y				Y														
OC Pesticides		EPA 8270E	MLA-007																ANAB ISO 17025																				
OC Pesticides	Toxaphene	EPA 1699	MLA-028															ANAB ISO 17025																					
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y		ANAB ISO 17025	Y	Y					Y														
OC Pesticides		SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y									Y	Y		ANAB ISO 17025	Y	Y				Y														
OC Pesticides	trans-Chlordane (gamma-Chlordane)	EPA 8270E	MLA-007															ANAB ISO 17025																					
OC Pesticides		EPA 1699	MLA-028															ANAB ISO 17025																					
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y		ANAB ISO 17025	Y	Y					Y														
OC Pesticides		SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025							Y														
OC Pesticides	trans-Nonachlor	SGS AXYS MLA-228	MLA-228			Y	Y							Y	Y			ANAB ISO 17025	Y	Y				Y															
OC Pesticides		EPA 8270E	MLA-007															ANAB ISO 17025																					
OC Pesticides		EPA 1699	MLA-028															ANAB ISO 17025																					
OC Pesticides		SGS AXYS MLA-028	MLA-028	Y		Y	Y									Y		ANAB ISO 17025	Y	Y				Y															
OC Pesticides	PAH	SGS AXYS MLA-007	MLA-007			Y	Y											ANAB ISO 17025																					
OC Pesticides		SGS AXYS MLA-228	MLA-228			Y	Y									Y	Y		ANAB ISO 17025	Y	Y																		
OC Pesticides		EPA 8270E	MLA-021							Y								ANAB ISO 17025																					
OC Pesticides		EPA 1625	MLA-021															ANAB ISO 17025																					
OC Pesticides	1,2,6-Trimethylphenanthrene	SGS AXYS MLA-021	MLA-021						Y									ANAB ISO 17025	Y																				
OC Pesticides	1,2-Dimethylnaphthalene	SGS AXYS MLA-021	MLA-021						Y									ANAB ISO 17025																					
OC Pesticides	1,4,6,7-Tetramethylnaphthalene	SGS AXYS MLA-021	MLA-021						Y									ANAB ISO 17025																					
OC Pesticides	1,7-Dimethylfluorene	SGS AXYS MLA-021	MLA-021						Y									ANAB ISO 17025	Y																				

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFF
				CAIA Alaska DEC ANAB D10 ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	Alaska DEC ANAB D10 ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	CAIA Alaska DEC ANAB D10 ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	CAIA Alaska DEC ANAB D10 ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	Alaska DEC ANAB D10 ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	Alaska DEC ANAB D10 ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE
PCB congeners	PCB 105/127	SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 8270E	MLA-007						
PCB congeners	PCB 106 2,3,3',4,5-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners		SGS AXYS MLA-210	MLA-210						
PCB congeners	PCB 107 2,3,3',4',5-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners	PCB 107/109	SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 8270E	MLA-007						
PCB congeners	PCB 108 2,3,3',4,5'-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners		SGS AXYS MLA-210	MLA-210						
PCB congeners	PCB 109 2,3,3',4,6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners	PCB 11 3,3'-Dichlorobiphenyl	SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners	PCB 110 2,3,3',4,6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010						
PCB congeners		SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners	PCB 111 2,3,3',5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners		SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners	PCB 112 2,3,3',5,6-Pentachlorobiphenyl	EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners		SGS AXYS MLA-210	MLA-210						
PCB congeners	PCB 113 2,3,3',5,6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010						
PCB congeners	PCB 114 2,3,4,4',5-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners	PCB 115 2,3,4,4',6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010						
PCB congeners		SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids												Tissue and Tissue Flora	Urine	Water	Water, Non-Potable												AFF
				CAIA	Alaska DEC	ANAB D10 **	ANAB ISO 17025	CAIA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE		CAIA	CAIA	Alaska DEC	ANAB D10 **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	
PCB congeners	PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908																													
PCB congeners		EPA 1628	MLA-908																													
PCB congeners		EPA 1668	MLA-010																													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y	Y		Y	Y	Y	Y							Y									
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners	PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908																													
PCB congeners		EPA 1628	MLA-908																													
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners	PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908																													
PCB congeners		EPA 1628	MLA-908							Y																						
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		EPA 8270E	MLA-007																													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners	PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl	SGS AXYS MLA-007	MLA-007																													
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners		SGS AXYS MLA-908	MLA-908																													
PCB congeners		EPA 1628	MLA-908							Y																						
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners	PCB 185 2,2',3,4,4',5,5',6-Heptachlorobiphenyl	EPA 8270E	MLA-007																													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners		SGS AXYS MLA-007	MLA-007					Y																								
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners		SGS AXYS MLA-908	MLA-908							Y																						
PCB congeners	PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl	EPA 1628	MLA-908							Y																						
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		EPA 8270E	MLA-007																													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners	PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908																													
PCB congeners		EPA 1628	MLA-908							Y																						
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners		SGS AXYS MLA-901	MLA-901	Y																												
PCB congeners	PCB 187/182	SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners		SGS AXYS MLA-908	MLA-908							Y																						
PCB congeners		EPA 1628	MLA-908							Y																						
PCB congeners		EPA 8270E	MLA-007																													
PCB congeners		SGS AXYS MLA-007	MLA-007					Y																								
PCB congeners	PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		EPA 8270E	MLA-007																													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners		SGS AXYS MLA-908	MLA-908							Y																						
PCB congeners	PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl	EPA 1628	MLA-908							Y																						
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		EPA 8270E	MLA-007																													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y																						
PCB congeners		SGS AXYS MLA-007	MLA-007					Y																								
PCB congeners	PCB 19 2,2',6-Trichlorobiphenyl	SGS AXYS MLA-210	MLA-210					Y		Y																						
PCB congeners		SGS AXYS MLA-908	MLA-908							Y																						
PCB congeners		EPA 1628	MLA-908							Y																						
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																
PCB congeners		EPA 8270E	MLA-007																													

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CA	Alaska DEC	ANAB Dtd **	ANAB ISO 17025	CA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB Dtd **	ANAB ISO 17025	CA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CA	CA	Alaska DEC	ANAB Dtd **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB Dtd **	ANAB ISO 17025
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y	Y	Y								Y	Y	Y			Y	Y	Y					Y									
PCB congeners		SGS AXYS MLA-210	MLA-210						Y	Y						Y																							
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y					Y																		
PCB congeners		EPA 1628	MLA-908								Y										Y																		
PCB congeners	PCB 9 2,5-Dichlorobiphenyl	EPA 1668	MLA-010						Y				Y	Y	Y	Y																							
PCB congeners		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y																		
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners	PCB 90 2,2',3,4',5-Pentachlorobiphenyl	EPA 1628	MLA-908							Y																													
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y																							
PCB congeners		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y																		
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners	PCB 91 2,2',3,4',6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y																							
PCB congeners		EPA 1628	MLA-908																																				
PCB congeners		EPA 1668	MLA-010								Y	Y			Y	Y	Y																						
PCB congeners		EPA 8270E	MLA-007																																				
PCB congeners	PCB 92 2,2',3,5,5'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y																		
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners		EPA 1628	MLA-908								Y																												
PCB congeners	PCB 93 2,2',3,5,6-Pentachlorobiphenyl	EPA 1668	MLA-010							Y	Y			Y	Y	Y																							
PCB congeners		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y																		
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners	PCB 94 2,2',3,5,6'-Pentachlorobiphenyl	EPA 1628	MLA-908																																				
PCB congeners		EPA 1668	MLA-010								Y	Y			Y	Y	Y																						
PCB congeners		EPA 8270E	MLA-007	Y																Y	Y																		
PCB congeners		SGS AXYS MLA-010	MLA-010							Y	Y																												
PCB congeners	PCB 95 2,2',3,5',6-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210						Y	Y																													
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners		EPA 1628	MLA-908								Y																												
PCB congeners		EPA 1668	MLA-010	Y						Y	Y									Y	Y																		
PCB congeners	PCB 96 2,2',3,6,6'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010																																				
PCB congeners		SGS AXYS MLA-210	MLA-210																																				
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners		EPA 1628	MLA-908																																				
PCB congeners	PCB 97 2,2',3,4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y																							
PCB congeners		SGS AXYS MLA-010	MLA-010	Y						Y	Y																												
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners	PCB 97/86	EPA 1628	MLA-908							Y																													
PCB congeners		EPA 8270E	MLA-007																																				
PCB congeners		SGS AXYS MLA-007	MLA-007							Y																													
PCB congeners		EPA 1668	MLA-010	Y							Y	Y			Y	Y	Y																						
PCB congeners	PCB 98 2,2',3,4',6'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010																																				
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners		EPA 1628	MLA-908								Y																												
PCB congeners	PCB 98/102	EPA 8270E	MLA-007																																				
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y																							
PCB congeners		EPA 8270E	MLA-007																																				
PCB congeners		SGS AXYS MLA-010	MLA-010	Y							Y																												
PCB congeners	PCB 99 2,2',4,4',5-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007	Y						Y																													
PCB congeners		SGS AXYS MLA-901	MLA-901	Y																																			
PCB congeners		SGS AXYS MLA-210	MLA-210							Y	Y																												
PCB congeners		SGS AXYS MLA-908	MLA-908													Y	Y																						
PCB congeners	PCB congeners, total	EPA 1628	MLA-908							Y																													
PCB congeners		EPA 1668	MLA-010												Y																								

Page 48 of 57

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFF
				CAIA Alaska DEC ANAB DoD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE ANAB DoD ** ANAB ISO 17025 CAIA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS	Solids Alaska DEC ANAB DoD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE ANAB DoD ** ANAB ISO 17025 CAIA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS	CAIA Alaska DEC ANAB DoD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS	CAIA Alaska DEC ANAB DoD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS	CAIA Alaska DEC ANAB DoD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS	CAIA Alaska DEC ANAB DoD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS
PFAS	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS	Perfluorononanesulfonate (PFNS)	DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS	Perfluorononanoate (PFNA)	SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS	Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA	DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD AFFF01 Rev 1.0	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS	Perfluorooctanoate (PFOA)	SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD AFFF01 Rev 1.0	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-043	MLA-043						
PFAS		SGS AXYS MLA-042	MLA-042	Y					
PFAS		SGS AXYS MLA-110	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.3	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD QSM Version 5.4	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		EPA 1633 draft	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		DoD AFFF01 Rev 1.0	MLA-110	Y	Y	Y	Y	Y	Y
PFAS		SGS AXYS MLA-060	MLA-060						
PFAS		SGS AXYS MLA-041	MLA-041						
PFAS		SGS AXYS MLA-043	MLA-043						

Accreditation Scope				
SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70				
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	
PFAS	Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-042	MLA-042	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS	Perfluorotridecanoate (PFTrDA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-060	MLA-060	
PFAS		SGS AXYS MLA-041	MLA-041	
PFAS		SGS AXYS MLA-043	MLA-043	
PFAS		SGS AXYS MLA-042	MLA-042	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS	4,4,5,5,6,6,6-heptafluorohexanoic acid (3:3 FTCA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS	2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS	Perfluoro-3-methoxypropanoic acid (PFMPA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS	Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS		SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PFAS	Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	SGS AXYS MLA-110	MLA-110	
PFAS		DoD QSM Version 5.3	MLA-110	
PFAS		DoD QSM Version 5.4	MLA-110	
PFAS		EPA 1633 draft	MLA-110	
PPCP		1,7-Dimethylxanthine	EPA 1694	MLA-075
PPCP			SGS AXYS MLA-075	MLA-075
PPCP			10-hydroxy-amitriptyline	MLA-075
PPCP			2-hydroxy-ibuprofen	MLA-075
PPCP			4-Epiantihydrochlorotetracycline (EACTC)	MLA-075
PPCP			SGS AXYS MLA-075	MLA-075
PPCP			EPA 1694	MLA-075
PPCP			4-Epiantihydrochlorotetracycline (EATC)	MLA-075
PPCP	SGS AXYS MLA-075		MLA-075	
PPCP	EPA 1694		MLA-075	
PPCP	4-Epiclorotetracycline (ECTC)		MLA-075	
PPCP	SGS AXYS MLA-075		MLA-075	
PPCP	EPA 1694	MLA-075		
PPCP	4-Epioxytetracycline (EOTC)	SGS AXYS MLA-075	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP		4-Epitetracycline (ETC)	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP		Acetaminophen	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP	Albuterol	SGS AXYS MLA-075	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	
PPCP		Alprazolam	MLA-075	
PPCP		Amitriptyline	MLA-075	
PPCP		Amlodipine	MLA-075	
PPCP		Amphetamine	MLA-075	
PPCP		Anhydrochlorotetracycline (ACTC)	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	
PPCP		EPA 1694	MLA-075	
PPCP		Anhydrotetracycline (ATC)	MLA-075	
PPCP		SGS AXYS MLA-075	MLA-075	

Page 54 of 57

Page 55 of 57

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	CA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CA	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DoD **	ANAB ISO 17025
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Trenbolone	SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Trenbolone acetate	SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Triamterene	SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Triclocarban	EPA 1694	MLA-075								Y											Y							
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Triclosan	EPA 1694	MLA-075							Y															Y				
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Trimethoprim	EPA 1694	MLA-075							Y															Y				
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Tylosin	EPA 1694	MLA-075							Y															Y				
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Valsartan	SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Verapamil	SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Virginiamycin	EPA 1694	MLA-075							Y															Y				
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
PPCP	Warfarin	EPA 1694	MLA-075							Y															Y				
PPCP		SGS AXYS MLA-075	MLA-075					Y																					
TOP	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorobutanoate (PFBA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorodecanoate (PFDA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorononanesulfonate (PFNS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorononanoate (PFNA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorooctanoate (PFOA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluoropentanoate (PFPeA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluorotridecanoate (PFTrDA)	SGS AXYS MLA-111	MLA-111					Y																					
TOP	Perfluoroundecanoate (PFUnA)	SGS AXYS MLA-111	MLA-111					Y																					
Note *	Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.																												
Note **	PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15 and US DoD QSM 5.4 table B-24																												

Legend	
Y	Accreditation scope
AFFF	Aqueous film forming foam
BFR	Brominated flame retardants (non-PBDPE)
BPA and mPE	Bisphenol A and mono-Phthalate Esters
OC Pesticides	Organochlorine Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PBDPE	Polybrominated diphenylethers
PCB	Polychlorinated Biphenyls
PCDDF	Polychlorinated dibenzodioxins/furans
PFAS	Per- and Polyfluoroalkyl Substances
PPCP	Pharmaceutical and Personal Care Products
TOP	Total Oxidizable Precursors
California WB	California Water Boards, Lab ID 2911
Florida DOH	Florida Department of Health, Lab ID E871007, (NELAC Standard)
Pennsylvania DEP	Pennsylvania Department of Environmental Protection
Minnesota DOH	Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard)
New Jersey DEP	New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard)
New York DOH	New York Department of Health, Lab ID 11674, (NELAC Standard)
Washington DE	Washington Department of Ecology, Lab ID C404
Virginia DGS	Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard)
Alaska DEC	Alaska Department of Environmental Conservation, Contaminated Sites Laboratory Approval 17-014
Maine DOH	Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFFF
				CALA	Alaska DEC ANAB DoD ** ANAB ISO 17025 CALA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	ANAB DoD ** ANAB ISO 17025 CALA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS	CALA	CALA	Alaska DEC ANAB DoD ** ANAB ISO 17025 California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Pennsylvania DEP Virginia DGS Washington DE *	ANAB DoD ** ANAB ISO 17025

ANAB DoD ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 and 5.4 Standard)



CALA Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2017 Standard)



CALA
Testing
Accreditation No. A2637