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AXYS Client No.: 4574

Client Address: Maine Dept.of Marine Resources
P.O. Box 8, 194 McKown Pt. Rd.
West Boothbay Harbor, ME, US, 04575-0008

BATCH SUMMARY

Batch ID: WG35116	***Date:*** 10-Feb-2011
Analysis Type: PCB Congener	***Matrix Type:*** Tissue

BATCH MAKEUP

Contract: 4574

Samples:

L15870-1	Schoppee-10M
L15870-3	Pleasant -10M
L15870-4	Pleasant -10F

Blank: WG35116-101

Reference or Spike: WG35116-102

Duplicate: WG35116-103

Comments:

1. Data is not blank corrected.
2. Concentrations of natives PCB 7, PCB 129/138/160/163 and PCB 153/168 were observed above the method control limits. As noted above, sample analyte concentrations are not blank corrected and blank levels should be considered dur ing sample data review.
3. The percent recovery of several labeled surrogates in the Schoppee -10M (AXYS ID: L15870-1) did not meet the method criteria; these surrogates are flagged with a 'V'. As the isotope dilution method of quantification produces data tha t are recovery corrected, the slight variances from the method acceptance criteria are deemed not to significantly affect the quantification of the analytes. Percent surrogate recoveries are used as general method performance indicator only. In addition, t he duplication of Schoppee -10M was within method criteria showing that data was not significantly affected by these variances.

AXYS METHOD MLA-010 Rev 10

Form 3A

PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

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

Initial Calibration Date: 24-Jan-2011

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB1C_031K S: 6

CS2 Data Filename: PB1C_031K S: 5

CS3 Data Filename: PB1C_031K S: 3

CS4 Data Filename: PB1C_031K S: 2

CS5 Data Filename: PB1C_031K S: 1

CS6 Data Filename: N/A

				RELATIVE RESPONSE (RR)								
COMPOUND	**IUPAC NO.**	**CO-ELUTIONS**	**LAB FLAG[1]**	**CS0**	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CS6**	**MEAN RR**	**CV[2] (%RSD)**
2-MoCB	1				1.15	1.14	1.13	1.17	1.16		1.15	1.35
4-MoCB	3				1.07	1.08	1.06	1.10	1.10		1.08	1.60
2,2'-DiCB	4				0.94	0.94	0.92	0.95	0.95		0.94	1.26
4,4'-DiCB	15				0.97	0.97	0.96	0.99	0.99		0.98	1.32
2,2',6-TriCB	19				1.00	1.01	1.02	1.05	1.06		1.03	2.59
3,4,4'-TriCB	37				0.98	1.00	0.99	1.03	1.03		1.01	2.24
2,2',6,6'-TeCB	54				1.03	1.05	1.03	1.06	1.06		1.04	1.33
3,3',4,4'-TeCB	77				1.01	1.01	0.99	1.04	1.02		1.01	1.90
3,4,4',5-TeCB	81				0.98	0.96	0.95	0.98	0.97		0.97	1.05
2,2',4,6,6'-PeCB	104				1.07	1.07	1.05	1.06	1.09		1.07	1.36
2,3,3',4,4'-PeCB	105				1.03	1.03	1.00	1.03	1.02		1.02	1.11
2,3,4,4',5-PeCB	114				1.05	1.00	1.00	1.03	1.01		1.02	2.26
2,3',4,4',5-PeCB	118				0.98	0.98	0.95	0.98	0.98		0.98	1.40
2',3,4,4',5-PeCB	123				0.96	0.96	0.94	0.97	0.97		0.96	1.17
3,3',4,4',5-PeCB	126				1.07	1.03	1.02	1.03	1.03		1.04	2.00
2,2',4,4',6,6'-HxCB	155				1.01	0.99	0.98	1.02	1.01		1.00	1.42
2,3,3',4,4',5-HxCB	156	156 + 157	C		1.07	1.07	1.04	1.07	1.05		1.06	1.34
2,3,3',4,4',5'-HxCB	157	156 + 157	C156									
2,3',4,4',5,5'-HxCB	167				1.01	1.05	1.04	1.06	1.07		1.05	2.29
3,3',4,4',5,5'-HxCB	169				0.99	1.01	1.03	1.06	1.05		1.03	2.98
2,2',3,4',5,6,6'-HpCB	188				0.96	0.94	0.96	0.98	0.98		0.97	1.77
2,3,3',4,4',5,5'-HpCB	189				1.01	1.02	1.01	1.04	1.07		1.03	2.11
2,2',3,3',5,5',6,6'-OcCB	202				0.91	0.93	0.92	0.94	0.93		0.92	0.97
2,3,3',4,4',5,5',6-OcCB	205				0.95	1.03	0.99	1.01	1.03		1.00	3.26
2,2',3,3',4,4',5,5',6-NoCB	206				1.14	1.07	1.09	1.12	1.13		1.11	2.62
2,2',3,3',4,5,5',6,6'-NoCB	208				1.04	1.04	1.03	1.06	1.05		1.04	1.25
2,2',3,3',4,4',5,5',6,6'-DeCB	209				0.97	1.00	1.00	1.02	1.03		1.00	2.39

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) For contract CV specifications, see Section 10.4.4, Method 1668A.

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

Signed: _____Celine Vaillant_____

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Report Filename: 1668_PCB1668_24-Jan-2011_PB1C__Form3A_GS39196.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 3B
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

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

Initial Calibration Date: 24-Jan-2011

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB1C_031K S: 6

CS2 Data Filename: PB1C_031K S: 5

CS3 Data Filename: PB1C_031K S: 3

CS4 Data Filename: PB1C_031K S: 2

CS5 Data Filename: PB1C_031K S: 1

CS6 Data Filename: N/A

				RELATIVE RESPONSE (RR)								
COMPOUND	**IUPAC NO. [1]**	**CO-ELUTIONS**	**LAB FLAG[2]**	**CS0**	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CS6**	**MEAN RR**	**CV[3] (%RSD)**
13C12-2-MoCB	1L				0.93	0.95	0.95	0.95	0.98		0.95	1.80
13C12-4-MoCB	3L				0.91	0.92	0.93	0.95	0.99		0.94	3.60
13C12-2,2'-DiCB	4L				0.65	0.66	0.65	0.66	0.67		0.66	1.63
13C12-4,4'-DiCB	15L				0.98	0.99	1.03	1.05	1.12		1.03	5.30
13C12-2,2',6-TriCB	19L				0.55	0.55	0.54	0.55	0.55		0.55	0.58
13C12-3,4,4'-TriCB	37L				1.60	1.59	1.67	1.68	1.79		1.67	4.88
13C12-2,2',6,6'-TeCB	54L				1.29	1.29	1.29	1.31	1.31		1.30	0.86
13C12-3,3',4,4'-TeCB	77L				1.25	1.27	1.42	1.47	1.50		1.38	8.23
13C12-3,4,4',5-TeCB	81L				1.28	1.29	1.43	1.47	1.54		1.40	8.08
13C12-2,2',4,6,6'-PeCB	104L				1.37	1.33	1.31	1.33	1.31		1.33	1.92
13C12-2,3,3',4,4'-PeCB	105L				1.31	1.31	1.36	1.45	1.49		1.38	6.20
13C12-2,3,4,4',5-PeCB	114L				1.33	1.33	1.39	1.48	1.54		1.41	6.49
13C12-2,3',4,4',5-PeCB	118L				1.35	1.35	1.42	1.51	1.55		1.44	6.40
13C12-2',3,4,4',5-PeCB	123L				1.35	1.34	1.41	1.50	1.56		1.43	6.69
13C12-3,3',4,4',5-PeCB	126L				1.13	1.16	1.24	1.31	1.45		1.26	10.4
13C12-2,2',4,4',6,6'-HxCB	155L				1.69	1.61	1.57	1.58	1.51		1.59	4.26
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C		1.26	1.13	1.24	1.28	1.34		1.25	6.07
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L									
13C12-2,3',4,4',5,5'-HxCB	167L				1.24	1.13	1.20	1.27	1.29		1.22	5.16
13C12-3,3',4,4',5,5'-HxCB	169L				1.23	1.09	1.24	1.14	1.20		1.18	5.45
13C12-2,2',3,4',5,6,6'-HpCB	188L				1.47	1.54	1.41	1.72	1.93		1.61	13.1
13C12-2,3,3',4,4',5,5'-HpCB	189L				1.43	1.46	1.44	1.51	1.68		1.50	6.77
13C12-2,2',3,3',5,5',6,6'-OcCB	202L				1.11	1.10	1.08	1.26	1.57		1.22	16.8
13C12-2,3,3',4,4',5,5',6-OcCB	205L				1.27	1.28	1.29	1.36	1.45		1.33	5.76
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L				0.78	0.80	0.81	0.85	0.90		0.83	5.31
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L				1.06	1.03	1.05	1.08	1.27		1.10	8.86
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L				0.94	0.93	0.96	1.00	1.03		0.97	4.30
CLEAN-UP STANDARD												
13C12-2,4,4'-TriCB	28L				1.71	1.70	1.68	1.69	1.64		1.68	1.57
13C12-2,3,3',5,5'-PeCB	111L				1.21	1.23	1.28	1.33	1.35		1.28	4.73
13C12-2,2',3,3',5,5',6-HpCB	178L				0.86	0.86	0.87	0.86	0.90		0.87	1.72

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) For contract CV specifications, see Section 10.4.4, Method 1668A.

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

Signed: _____Celine Vaillant_____

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Report Filename: 1668_PCB1668_24-Jan-2011_PB1C__Form3B_GS39196.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 3C
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

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

Initial Calibration Date: 24-Jan-2011

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A
CS1 Data Filename: PB1C_031K S: 6
CS2 Data Filename: PB1C_031K S: 5
CS3 Data Filename: PB1C_031K S: 3
CS4 Data Filename: PB1C_031K S: 2
CS5 Data Filename: PB1C_031K S: 1
CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG[1]	M/Z's FORMING RATIO [2]	ION ABUNDANCE RATIO CS0	CS1	CS2	CS3	CS4	CS5	CS6	QC LIMITS [2]
2-MoCB	1			**M/M+2**		3.09	3.11	3.10	3.11	3.13		2.66-3.60
4-MoCB	3			**M/M+2**		3.28	3.07	3.09	3.10	3.11		2.66-3.60
2,2'-DiCB	4			**M/M+2**		1.55	1.55	1.57	1.57	1.56		1.33-1.79
4,4'-DiCB	15			**M/M+2**		1.63	1.56	1.55	1.57	1.56		1.33-1.79
2,2',6-TriCB	19			**M/M+2**		1.03	1.04	1.07	1.05	1.07		0.88-1.20
3,4,4'-TriCB	37			**M/M+2**		1.14	1.06	1.05	1.08	1.06		0.88-1.20
2,2',6,6'-TeCB	54			**M/M+2**		0.78	0.77	0.80	0.80	0.79		0.65-0.89
3,3',4,4'-TeCB	77			**M/M+2**		0.79	0.79	0.78	0.77	0.78		0.65-0.89
3,4,4',5-TeCB	81			**M/M+2**		0.82	0.80	0.78	0.77	0.78		0.65-0.89
2,2',4,6,6'-PeCB	104			**M+2/M+4**		1.50	1.58	1.56	1.55	1.55		1.32-1.78
2,3,3',4,4'-PeCB	105			**M+2/M+4**		1.56	1.58	1.53	1.54	1.58		1.32-1.78
2,3,4,4',5-PeCB	114			**M+2/M+4**		1.63	1.59	1.58	1.58	1.58		1.32-1.78
2,3',4,4',5-PeCB	118			**M+2/M+4**		1.58	1.53	1.60	1.57	1.55		1.32-1.78
2',3,4,4',5-PeCB	123			**M+2/M+4**		1.59	1.54	1.55	1.57	1.57		1.32-1.78
3,3',4,4',5-PeCB	126			**M+2/M+4**		1.59	1.62	1.55	1.54	1.57		1.32-1.78
2,2',4,4',6,6'-HxCB	155			**M+2/M+4**		1.26	1.18	1.26	1.24	1.25		1.05-1.43
2,3,3',4,4',5-HxCB	156	156 + 157	C	**M+2/M+4**		1.29	1.26	1.26	1.26	1.26		1.05-1.43
2,3,3',4,4',5'-HxCB	157	156 + 157	C156									
2,3',4,4',5,5'-HxCB	167			**M+2/M+4**		1.08	1.25	1.25	1.27	1.26		1.05-1.43
3,3',4,4',5,5'-HxCB	169			**M+2/M+4**		1.36	1.22	1.27	1.27	1.27		1.05-1.43
2,2',3,4',5,6,6'-HpCB	188			**M+2/M+4**		1.01	1.03	1.05	1.03	1.04		0.89-1.21
2,3,3',4,4',5,5'-HpCB	189			**M+2/M+4**		0.98	1.01	1.07	1.06	1.06		0.89-1.21
2,2',3,3',5,5',6,6'-OcCB	202			**M+2/M+4**		0.90	0.87	0.93	0.91	0.87		0.76-1.02
2,3,3',4,4',5,5',6-OcCB	205			**M+2/M+4**		0.97	0.91	0.90	0.90	0.89		0.76-1.02
2,2',3,3',4,4',5,5',6-NoCB	206			**M+2/M+4**		0.85	0.80	0.79	0.80	0.78		0.65-0.89
2,2',3,3',4,5,5',6,6'-NoCB	208			**M+2/M+4**		0.74	0.80	0.79	0.79	0.79		0.65-0.89
2,2',3,3',4,4',5,5',6,6'-DeCB	209			**M+2/M+4**		0.72	0.66	0.71	0.70	0.70		0.59-0.79

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

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

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AXYS METHOD MLA-010 Rev 10

Form 3D

PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

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

Initial Calibration Date: 24-Jan-2011

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB1C_031K S: 6

CS2 Data Filename: PB1C_031K S: 5

CS3 Data Filename: PB1C_031K S: 3

CS4 Data Filename: PB1C_031K S: 2

CS5 Data Filename: PB1C_031K S: 1

CS6 Data Filename: N/A

LABELED COMPOUND	IUPAC NO.[1]	CO-ELUTIONS	LAB FLAG[2]	M/Z's FORMING RATIO [3]	ION ABUNDANCE RATIO CS0	CS1	CS2	CS3	CS4	CS5	CS6	QC LIMITS [3]
13C12-2-MoCB	1L			**M/M+2**		3.21	3.18	3.18	3.20	3.21		2.66-3.60
13C12-4-MoCB	3L			**M/M+2**		3.14	3.19	3.15	3.16	3.16		2.66-3.60
13C12-2,2'-DiCB	4L			**M/M+2**		1.59	1.59	1.60	1.61	1.57		1.33-1.79
13C12-4,4'-DiCB	15L			**M/M+2**		1.59	1.59	1.57	1.59	1.58		1.33-1.79
13C12-2,2',6-TriCB	19L			**M/M+2**		1.03	1.06	1.05	1.06	1.03		0.88-1.20
13C12-3,4,4'-TriCB	37L			**M/M+2**		1.05	1.05	1.05	1.05	1.05		0.88-1.20
13C12-2,2',6,6'-TeCB	54L			**M/M+2**		0.81	0.80	0.79	0.80	0.80		0.65-0.89
13C12-3,3',4,4'-TeCB	77L			**M/M+2**		0.80	0.79	0.79	0.78	0.78		0.65-0.89
13C12-3,4,4',5-TeCB	81L			**M/M+2**		0.77	0.79	0.79	0.77	0.77		0.65-0.89
13C12-2,2',4,6,6'-PeCB	104L			**M+2/M+4**		1.57	1.59	1.54	1.58	1.57		1.32-1.78
13C12-2,3,3',4,4'-PeCB	105L			**M+2/M+4**		1.61	1.58	1.55	1.58	1.54		1.32-1.78
13C12-2,3,4,4',5-PeCB	114L			**M+2/M+4**		1.58	1.61	1.60	1.60	1.62		1.32-1.78
13C12-2,3',4,4',5-PeCB	118L			**M+2/M+4**		1.57	1.57	1.58	1.57	1.54		1.32-1.78
13C12-2',3,4,4',5-PeCB	123L			**M+2/M+4**		1.58	1.59	1.58	1.59	1.58		1.32-1.78
13C12-3,3',4,4',5-PeCB	126L			**M+2/M+4**		1.57	1.59	1.56	1.61	1.59		1.32-1.78
13C12-2,2',4,4',6,6'-HxCB	155L			**M+2/M+4**		1.27	1.27	1.27	1.28	1.27		1.05-1.43
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	**M+2/M+4**		1.28	1.28	1.28	1.27	1.26		1.05-1.43
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L									
13C12-2,3',4,4',5,5'-HxCB	167L			**M+2/M+4**		1.25	1.27	1.27	1.27	1.25		1.05-1.43
13C12-3,3',4,4',5,5'-HxCB	169L			**M+2/M+4**		1.27	1.24	1.27	1.27	1.29		1.05-1.43
13C12-2,2',3,4',5,6,6'-HpCB	188L			**M+2/M+4**		1.05	1.08	1.04	1.05	1.06		0.89-1.21
13C12-2,3,3',4,4',5,5'-HpCB	189L			**M+2/M+4**		1.02	1.04	1.02	1.03	1.06		0.89-1.21
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			**M+2/M+4**		0.94	0.92	0.91	0.94	0.89		0.76-1.02
13C12-2,3,3',4,4',5,5',6-OcCB	205L			**M+2/M+4**		0.91	0.91	0.92	0.90	0.90		0.76-1.02
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			**M+2/M+4**		0.79	0.79	0.77	0.78	0.78		0.65-0.89
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			**M+2/M+4**		0.79	0.79	0.77	0.80	0.77		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			**M+4/M+6**		1.18	1.20	1.21	1.17	1.20		0.99-1.33
CLEAN-UP STANDARD												
13C12-2,4,4'-TriCB	28L			**M/M+2**		1.05	1.06	1.05	1.03	1.04		0.88-1.20
13C12-2,3,3',5,5'-PeCB	111L			**M+2/M+4**		1.62	1.59	1.59	1.59	1.59		1.32-1.78
13C12-2,2',3,3',5,5',6-HpCB	178L			**M+2/M+4**		1.03	1.05	1.06	1.06	1.05		0.89-1.21

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

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

Signed: _____Celine Vaillant_____

For Axys Internal Use Only [XSL Template: Form16683D.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_24-Jan-2011_PB1C__Form3D_GS39196.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-1 (A)
Matrix:	TISSUE	**Sample Size:**	10.0 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	77.4 1.84

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		12.4
Total Trichloro Biphenyls		174
Total Tetrachloro Biphenyls		1120
Total Pentachloro Biphenyls		4000
Total Hexachloro Biphenyls		6510
Total Heptachloro Biphenyls		2240
Total Octachloro Biphenyls		432
Total Nonachloro Biphenyls		77.1
Decachloro Biphenyl		20.6
TOTAL PCBs		14600

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-1_Form1AHT_SJ1249743.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-1 (A)
Matrix:	TISSUE	**Sample Size:**	2.26 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:** **% Lipid:**	77.4 1.84

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		54.7
Total Trichloro Biphenyls		771
Total Tetrachloro Biphenyls		4970
Total Pentachloro Biphenyls		17700
Total Hexachloro Biphenyls		28800
Total Heptachloro Biphenyls		9930
Total Octachloro Biphenyls		1910
Total Nonachloro Biphenyls		342
Decachloro Biphenyl		91.3
TOTAL PCBs		64600

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-1_Form1AHT_SJ1249743_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-1 (A)
Matrix:	TISSUE	**Sample Size:**	0.184 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:** **% Lipid:**	77.4 1.84

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		672
Total Trichloro Biphenyls		9470
Total Tetrachloro Biphenyls		61000
Total Pentachloro Biphenyls		218000
Total Hexachloro Biphenyls		354000
Total Heptachloro Biphenyls		122000
Total Octachloro Biphenyls		23500
Total Nonachloro Biphenyls		4210
Decachloro Biphenyl		1120
TOTAL PCBs		794000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-1_Form1AHT_SJ1249743_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	10.0 g (wet)	**Lab Sample I.D.:**	L15870-1 (A)
Concentration Units:	pg/g (wet weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 6**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			13.9	1.62	0.0001	1.39e-03	1.39e-03	1.39e-03
3,4,4',5-TeCB	81		U		1.69	0.0003	0.00e+00	2.54e-04	5.07e-04
2,3,3',4,4'-PeCB	105			277	2.40	0.00003	8.31e-03	8.31e-03	8.31e-03
2,3,4,4',5-PeCB	114			14.9	2.46	0.00003	4.47e-04	4.47e-04	4.47e-04
2,3',4,4',5-PeCB	118			835	2.44	0.00003	2.51e-02	2.51e-02	2.51e-02
2',3,4,4',5-PeCB	123			9.56	2.48	0.00003	2.87e-04	2.87e-04	2.87e-04
3,3',4,4',5-PeCB	126			3.81	2.63	0.1	3.81e-01	3.81e-01	3.81e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	101	2.37	0.00003	3.03e-03	3.03e-03	3.03e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			49.5	1.72	0.00003	1.49e-03	1.49e-03	1.49e-03
3,3',4,4',5,5'-HxCB	169		U		1.84	0.03	0.00e+00	2.76e-02	5.52e-02
2,3,3',4,4',5,5'-HpCB	189			6.56	0.506	0.00003	1.97e-04	1.97e-04	1.97e-04
					TOTAL TEQ		0.421	0.449	0.477

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-1_TEQ_SJ1249743.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	2.26 g (dry)	**Lab Sample I.D.:**	L15870-1 (A)
Concentration Units:	pg/g (dry weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 6**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			61.6	7.18	0.0001	6.16e-03	6.16e-03	6.16e-03
3,4,4',5-TeCB	81		U		7.49	0.0003	0.00e+00	1.12e-03	2.25e-03
2,3,3',4,4'-PeCB	105			1230	10.6	0.00003	3.69e-02	3.69e-02	3.69e-02
2,3,4,4',5-PeCB	114			66.0	10.9	0.00003	1.98e-03	1.98e-03	1.98e-03
2,3',4,4',5-PeCB	118			3700	10.8	0.00003	1.11e-01	1.11e-01	1.11e-01
2',3,4,4',5-PeCB	123			42.4	11.0	0.00003	1.27e-03	1.27e-03	1.27e-03
3,3',4,4',5-PeCB	126			16.9	11.7	0.1	1.69e+00	1.69e+00	1.69e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	448	10.5	0.00003	1.34e-02	1.34e-02	1.34e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			219	7.62	0.00003	6.57e-03	6.57e-03	6.57e-03
3,3',4,4',5,5'-HxCB	169		U		8.15	0.03	0.00e+00	1.22e-01	2.45e-01
2,3,3',4,4',5,5'-HpCB	189			29.1	2.24	0.00003	8.73e-04	8.73e-04	8.73e-04
					TOTAL TEQ		1.87	1.99	2.11

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-1_TEQ_SJ1249743_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	0.184 g (lipid)	**Lab Sample I.D.:**	L15870-1 (A)
Concentration Units:	pg/g (lipid weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 6**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			757	88.2	0.0001	7.57e-02	7.57e-02	7.57e-02
3,4,4',5-TeCB	81		U		92.0	0.0003	0.00e+00	1.38e-02	2.76e-02
2,3,3',4,4'-PeCB	105			15100	130	0.00003	4.53e-01	4.53e-01	4.53e-01
2,3,4,4',5-PeCB	114			811	134	0.00003	2.43e-02	2.43e-02	2.43e-02
2,3',4,4',5-PeCB	118			45500	133	0.00003	1.37e+00	1.37e+00	1.37e+00
2',3,4,4',5-PeCB	123			521	135	0.00003	1.56e-02	1.56e-02	1.56e-02
3,3',4,4',5-PeCB	126			208	144	0.1	2.08e+01	2.08e+01	2.08e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	5510	129	0.00003	1.65e-01	1.65e-01	1.65e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			2690	93.6	0.00003	8.07e-02	8.07e-02	8.07e-02
3,3',4,4',5,5'-HxCB	169		U		100	0.03	0.00e+00	1.50e+00	3.00e+00
2,3,3',4,4',5,5'-HpCB	189			358	27.5	0.00003	1.07e-02	1.07e-02	1.07e-02
					TOTAL TEQ		23.0	24.5	26.0

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-1_TEQ_SJ1249743_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-3
Matrix:	TISSUE	**Sample Size:**	10.3 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	77.6 2.00

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		0.789
Total Dichloro Biphenyls		14.5
Total Trichloro Biphenyls		168
Total Tetrachloro Biphenyls		1140
Total Pentachloro Biphenyls		4060
Total Hexachloro Biphenyls		5920
Total Heptachloro Biphenyls		1980
Total Octachloro Biphenyls		351
Total Nonachloro Biphenyls		67.8
Decachloro Biphenyl		19.2
TOTAL PCBs		13700

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-3_Form1AHT_SJ1249749.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-3
Matrix:	TISSUE	**Sample Size:**	2.30 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:** **% Lipid:**	77.6 2.00

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		3.52
Total Dichloro Biphenyls		64.9
Total Trichloro Biphenyls		752
Total Tetrachloro Biphenyls		5080
Total Pentachloro Biphenyls		18200
Total Hexachloro Biphenyls		26500
Total Heptachloro Biphenyls		8830
Total Octachloro Biphenyls		1570
Total Nonachloro Biphenyls		303
Decachloro Biphenyl		85.8
TOTAL PCBs		61300

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-3_Form1AHT_SJ1249749_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-3
Matrix:	TISSUE	**Sample Size:**	0.205 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:** **% Lipid:**	77.6 2.00

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		39.5
Total Dichloro Biphenyls		729
Total Trichloro Biphenyls		8450
Total Tetrachloro Biphenyls		57100
Total Pentachloro Biphenyls		204000
Total Hexachloro Biphenyls		297000
Total Heptachloro Biphenyls		99200
Total Octachloro Biphenyls		17600
Total Nonachloro Biphenyls		3400
Decachloro Biphenyl		964
TOTAL PCBs		688000

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-3_Form1AHT_SJ1249749_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	10.3 g (wet)	**Lab Sample I.D.:**	L15870-3
Concentration Units:	pg/g (wet weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 9**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			14.5	0.319	0.0001	1.45e-03	1.45e-03	1.45e-03
3,4,4',5-TeCB	81			0.614	0.339	0.0003	1.84e-04	1.84e-04	1.84e-04
2,3,3',4,4'-PeCB	105			276	0.961	0.00003	8.28e-03	8.28e-03	8.28e-03
2,3,4,4',5-PeCB	114			14.4	1.04	0.00003	4.32e-04	4.32e-04	4.32e-04
2,3',4,4',5-PeCB	118			857	1.02	0.00003	2.57e-02	2.57e-02	2.57e-02
2',3,4,4',5-PeCB	123			10.5	1.05	0.00003	3.15e-04	3.15e-04	3.15e-04
3,3',4,4',5-PeCB	126			3.32	1.06	0.1	3.32e-01	3.32e-01	3.32e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	92.4	1.32	0.00003	2.77e-03	2.77e-03	2.77e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			48.6	0.921	0.00003	1.46e-03	1.46e-03	1.46e-03
3,3',4,4',5,5'-HxCB	169		U		1.04	0.03	0.00e+00	1.56e-02	3.12e-02
2,3,3',4,4',5,5'-HpCB	189			5.23	0.157	0.00003	1.57e-04	1.57e-04	1.57e-04
					TOTAL TEQ		0.373	0.388	0.404

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-3_TEQ_SJ1249749.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	2.30 g (dry)	**Lab Sample I.D.:**	L15870-3
Concentration Units:	pg/g (dry weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 9**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			64.8	1.43	0.0001	6.48e-03	6.48e-03	6.48e-03
3,4,4',5-TeCB	81			2.74	1.51	0.0003	8.22e-04	8.22e-04	8.22e-04
2,3,3',4,4'-PeCB	105			1230	4.29	0.00003	3.69e-02	3.69e-02	3.69e-02
2,3,4,4',5-PeCB	114			64.3	4.65	0.00003	1.93e-03	1.93e-03	1.93e-03
2,3',4,4',5-PeCB	118			3830	4.56	0.00003	1.15e-01	1.15e-01	1.15e-01
2',3,4,4',5-PeCB	123			46.9	4.69	0.00003	1.41e-03	1.41e-03	1.41e-03
3,3',4,4',5-PeCB	126			14.8	4.74	0.1	1.48e+00	1.48e+00	1.48e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	413	5.90	0.00003	1.24e-02	1.24e-02	1.24e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			217	4.12	0.00003	6.51e-03	6.51e-03	6.51e-03
3,3',4,4',5,5'-HxCB	169		U		4.65	0.03	0.00e+00	6.98e-02	1.40e-01
2,3,3',4,4',5,5'-HpCB	189			23.4	0.701	0.00003	7.02e-04	7.02e-04	7.02e-04
					TOTAL TEQ		1.66	1.73	1.80

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
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Signed: _____Alina Tarnauceanu_____

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For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-3_TEQ_SJ1249749_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	0.205 g (lipid)	**Lab Sample I.D.:**	L15870-3
Concentration Units:	pg/g (lipid weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 9**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			728	16.1	0.0001	7.28e-02	7.28e-02	7.28e-02
3,4,4',5-TeCB	81			30.8	17.0	0.0003	9.24e-03	9.24e-03	9.24e-03
2,3,3',4,4'-PeCB	105			13800	48.2	0.00003	4.14e-01	4.14e-01	4.14e-01
2,3,4,4',5-PeCB	114			722	52.2	0.00003	2.17e-02	2.17e-02	2.17e-02
2,3',4,4',5-PeCB	118			43000	51.2	0.00003	1.29e+00	1.29e+00	1.29e+00
2',3,4,4',5-PeCB	123			527	52.7	0.00003	1.58e-02	1.58e-02	1.58e-02
3,3',4,4',5-PeCB	126			166	53.2	0.1	1.66e+01	1.66e+01	1.66e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	4640	66.3	0.00003	1.39e-01	1.39e-01	1.39e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			2440	46.3	0.00003	7.32e-02	7.32e-02	7.32e-02
3,3',4,4',5,5'-HxCB	169		U		52.2	0.03	0.00e+00	7.83e-01	1.57e+00
2,3,3',4,4',5,5'-HpCB	189			263	7.88	0.00003	7.89e-03	7.89e-03	7.89e-03
					TOTAL TEQ		18.6	19.4	20.2

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
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Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-3_TEQ_SJ1249749_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-4
Matrix:	TISSUE	**Sample Size:**	10.2 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	78.9 1.23

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		0.758
Total Dichloro Biphenyls		9.85
Total Trichloro Biphenyls		93.5
Total Tetrachloro Biphenyls		611
Total Pentachloro Biphenyls		2510
Total Hexachloro Biphenyls		5080
Total Heptachloro Biphenyls		2090
Total Octachloro Biphenyls		443
Total Nonachloro Biphenyls		82.8
Decachloro Biphenyl		21.4
TOTAL PCBs		10900

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-4_Form1AHT_SJ1249751.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-4
Matrix:	TISSUE	**Sample Size:**	2.15 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:** **% Lipid:**	78.9 1.23

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		3.60
Total Dichloro Biphenyls		46.8
Total Trichloro Biphenyls		444
Total Tetrachloro Biphenyls		2900
Total Pentachloro Biphenyls		11900
Total Hexachloro Biphenyls		24100
Total Heptachloro Biphenyls		9920
Total Octachloro Biphenyls		2100
Total Nonachloro Biphenyls		393
Decachloro Biphenyl		102
TOTAL PCBs		51900

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

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Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-4_Form1AHT_SJ1249751_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-4
Matrix:	TISSUE	**Sample Size:**	0.125 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:** **% Lipid:**	78.9 1.23

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		61.9
Total Dichloro Biphenyls		804
Total Trichloro Biphenyls		7630
Total Tetrachloro Biphenyls		49900
Total Pentachloro Biphenyls		205000
Total Hexachloro Biphenyls		416000
Total Heptachloro Biphenyls		171000
Total Octachloro Biphenyls		36200
Total Nonachloro Biphenyls		6760
Decachloro Biphenyl		1760
TOTAL PCBs		894000

(1) Where applicable, custom lab flags have been used on this report.
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Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-4_Form1AHT_SJ1249751_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	10.2 g (wet)	**Lab Sample I.D.:**	L15870-4
Concentration Units:	pg/g (wet weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 10**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			8.90	0.373	0.0001	8.90e-04	8.90e-04	8.90e-04
3,4,4',5-TeCB	81			0.501	0.402	0.0003	1.50e-04	1.50e-04	1.50e-04
2,3,3',4,4'-PeCB	105			189	0.647	0.00003	5.67e-03	5.67e-03	5.67e-03
2,3,4,4',5-PeCB	114			9.40	0.721	0.00003	2.82e-04	2.82e-04	2.82e-04
2,3',4,4',5-PeCB	118			521	0.708	0.00003	1.56e-02	1.56e-02	1.56e-02
2',3,4,4',5-PeCB	123			7.62	0.747	0.00003	2.29e-04	2.29e-04	2.29e-04
3,3',4,4',5-PeCB	126			2.99	0.736	0.1	2.99e-01	2.99e-01	2.99e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	81.6	0.343	0.00003	2.45e-03	2.45e-03	2.45e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			40.2	0.240	0.00003	1.21e-03	1.21e-03	1.21e-03
3,3',4,4',5,5'-HxCB	169		U		1.21	0.03	0.00e+00	1.82e-02	3.63e-02
2,3,3',4,4',5,5'-HpCB	189			6.01	0.143	0.00003	1.80e-04	1.80e-04	1.80e-04
					TOTAL TEQ		0.326	0.344	0.362

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-4_TEQ_SJ1249751.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	2.15 g (dry)	**Lab Sample I.D.:**	L15870-4
Concentration Units:	pg/g (dry weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 10**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			42.2	1.77	0.0001	4.22e-03	4.22e-03	4.22e-03
3,4,4',5-TeCB	81			2.38	1.91	0.0003	7.14e-04	7.14e-04	7.14e-04
2,3,3',4,4'-PeCB	105			897	3.07	0.00003	2.69e-02	2.69e-02	2.69e-02
2,3,4,4',5-PeCB	114			44.6	3.42	0.00003	1.34e-03	1.34e-03	1.34e-03
2,3',4,4',5-PeCB	118			2470	3.36	0.00003	7.41e-02	7.41e-02	7.41e-02
2',3,4,4',5-PeCB	123			36.2	3.55	0.00003	1.09e-03	1.09e-03	1.09e-03
3,3',4,4',5-PeCB	126			14.2	3.49	0.1	1.42e+00	1.42e+00	1.42e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	387	1.63	0.00003	1.16e-02	1.16e-02	1.16e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			191	1.14	0.00003	5.73e-03	5.73e-03	5.73e-03
3,3',4,4',5,5'-HxCB	169		U		5.74	0.03	0.00e+00	8.61e-02	1.72e-01
2,3,3',4,4',5,5'-HpCB	189			28.5	0.679	0.00003	8.55e-04	8.55e-04	8.55e-04
					TOTAL TEQ		1.55	1.63	1.72

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-4_TEQ_SJ1249751_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	0.125 g (lipid)	**Lab Sample I.D.:**	L15870-4
Concentration Units:	pg/g (lipid weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 10**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			726	30.5	0.0001	7.26e-02	7.26e-02	7.26e-02
3,4,4',5-TeCB	81			41.0	32.9	0.0003	1.23e-02	1.23e-02	1.23e-02
2,3,3',4,4'-PeCB	105			15400	52.8	0.00003	4.62e-01	4.62e-01	4.62e-01
2,3,4,4',5-PeCB	114			767	58.9	0.00003	2.30e-02	2.30e-02	2.30e-02
2,3',4,4',5-PeCB	118			42500	57.8	0.00003	1.28e+00	1.28e+00	1.28e+00
2',3,4,4',5-PeCB	123			623	61.1	0.00003	1.87e-02	1.87e-02	1.87e-02
3,3',4,4',5-PeCB	126			244	60.1	0.1	2.44e+01	2.44e+01	2.44e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	6660	28.0	0.00003	2.00e-01	2.00e-01	2.00e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			3290	19.6	0.00003	9.87e-02	9.87e-02	9.87e-02
3,3',4,4',5,5'-HxCB	169		U		98.8	0.03	0.00e+00	1.48e+00	2.96e+00
2,3,3',4,4',5,5'-HpCB	189			490	11.7	0.00003	1.47e-02	1.47e-02	1.47e-02
					TOTAL TEQ		26.6	28.1	29.5

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L15870-4_TEQ_SJ1249751_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	N/A		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-101
Matrix:	CANOLA OIL	**Sample Size:**	10.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g		

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		0.119
Total Dichloro Biphenyls		8.88
Total Trichloro Biphenyls		2.67
Total Tetrachloro Biphenyls		5.86
Total Pentachloro Biphenyls		18.0
Total Hexachloro Biphenyls		30.7
Total Heptachloro Biphenyls		13.4
Total Octachloro Biphenyls		0.944
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		80.5

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-101_Form1AHT_SJ1249740.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	N/A		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-101
Matrix:	CANOLA OIL	**Sample Size:**	2.00 g (dry)
Sample Receipt Date:	N/A	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)		

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		0.595
Total Dichloro Biphenyls		44.5
Total Trichloro Biphenyls		13.4
Total Tetrachloro Biphenyls		29.3
Total Pentachloro Biphenyls		90.0
Total Hexachloro Biphenyls		153
Total Heptachloro Biphenyls		66.9
Total Octachloro Biphenyls		4.72
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		403

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
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Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-101_Form1AHT_SJ1249740_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	N/A		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-101
Matrix:	CANOLA OIL	**Sample Size:**	0.200 g (lipid)
Sample Receipt Date:	N/A	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)		

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		5.95
Total Dichloro Biphenyls		445
Total Trichloro Biphenyls		134
Total Tetrachloro Biphenyls		293
Total Pentachloro Biphenyls		900
Total Hexachloro Biphenyls		1530
Total Heptachloro Biphenyls		669
Total Octachloro Biphenyls		47.2
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		4030

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
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Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-101_Form1AHT_SJ1249740_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	CANOLA OIL	**Project No.**	N/A
Sample Size:	10.0 g	**Lab Sample I.D.:**	WG35116-101
Concentration Units:	pg/g	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 5**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77		U		0.0989	0.0001	0.00e+00	4.95e-06	9.89e-06
3,4,4',5-TeCB	81		U		0.107	0.0003	0.00e+00	1.61e-05	3.21e-05
2,3,3',4,4'-PeCB	105			1.30	0.129	0.00003	3.90e-05	3.90e-05	3.90e-05
2,3,4,4',5-PeCB	114		U		0.136	0.00003	0.00e+00	2.04e-06	4.08e-06
2,3',4,4',5-PeCB	118			3.56	0.141	0.00003	1.07e-04	1.07e-04	1.07e-04
2',3,4,4',5-PeCB	123		U		0.139	0.00003	0.00e+00	2.09e-06	4.17e-06
3,3',4,4',5-PeCB	126		U		0.147	0.1	0.00e+00	7.35e-03	1.47e-02
2,3,3',4,4',5-HxCB	156	156 + 157	C	0.692	0.150	0.00003	2.08e-05	2.08e-05	2.08e-05
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167		U		0.104	0.00003	0.00e+00	1.56e-06	3.12e-06
3,3',4,4',5,5'-HxCB	169		U		0.112	0.03	0.00e+00	1.68e-03	3.36e-03
2,3,3',4,4',5,5'-HpCB	189		U		0.115	0.00003	0.00e+00	1.73e-06	3.45e-06
					TOTAL TEQ		0.000167	0.00922	0.0183

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-101_TEQ_SJ1249740.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	CANOLA OIL	**Project No.**	N/A
Sample Size:	2.00 g (dry)	**Lab Sample I.D.:**	WG35116-101
Concentration Units:	pg/g (dry weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 5**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77		U		0.495	0.0001	0.00e+00	2.48e-05	4.95e-05
3,4,4',5-TeCB	81		U		0.535	0.0003	0.00e+00	8.03e-05	1.61e-04
2,3,3',4,4'-PeCB	105			6.50	0.645	0.00003	1.95e-04	1.95e-04	1.95e-04
2,3,4,4',5-PeCB	114		U		0.680	0.00003	0.00e+00	1.02e-05	2.04e-05
2,3',4,4',5-PeCB	118			17.8	0.705	0.00003	5.34e-04	5.34e-04	5.34e-04
2',3,4,4',5-PeCB	123		U		0.695	0.00003	0.00e+00	1.04e-05	2.09e-05
3,3',4,4',5-PeCB	126		U		0.735	0.1	0.00e+00	3.68e-02	7.35e-02
2,3,3',4,4',5-HxCB	156	156 + 157	C	3.46	0.750	0.00003	1.04e-04	1.04e-04	1.04e-04
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167		U		0.520	0.00003	0.00e+00	7.80e-06	1.56e-05
3,3',4,4',5,5'-HxCB	169		U		0.560	0.03	0.00e+00	8.40e-03	1.68e-02
2,3,3',4,4',5,5'-HpCB	189		U		0.575	0.00003	0.00e+00	8.63e-06	1.73e-05
					TOTAL TEQ		0.000833	0.0461	0.0914

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-101_TEQ_SJ1249740_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	CANOLA OIL	**Project No.**	N/A
Sample Size:	0.200 g (lipid)	**Lab Sample I.D.:**	WG35116-101
Concentration Units:	pg/g (lipid weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 5**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77		U		4.95	0.0001	0.00e+00	2.48e-04	4.95e-04
3,4,4',5-TeCB	81		U		5.35	0.0003	0.00e+00	8.03e-04	1.61e-03
2,3,3',4,4'-PeCB	105			65.0	6.45	0.00003	1.95e-03	1.95e-03	1.95e-03
2,3,4,4',5-PeCB	114		U		6.80	0.00003	0.00e+00	1.02e-04	2.04e-04
2,3',4,4',5-PeCB	118			178	7.05	0.00003	5.34e-03	5.34e-03	5.34e-03
2',3,4,4',5-PeCB	123		U		6.95	0.00003	0.00e+00	1.04e-04	2.09e-04
3,3',4,4',5-PeCB	126		U		7.35	0.1	0.00e+00	3.68e-01	7.35e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	34.6	7.50	0.00003	1.04e-03	1.04e-03	1.04e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167		U		5.20	0.00003	0.00e+00	7.80e-05	1.56e-04
3,3',4,4',5,5'-HxCB	169		U		5.60	0.03	0.00e+00	8.40e-02	1.68e-01
2,3,3',4,4',5,5'-HpCB	189		U		5.75	0.00003	0.00e+00	8.63e-05	1.73e-04
					TOTAL TEQ		0.00833	0.461	0.914

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-101_TEQ_SJ1249740_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	10.6 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	78.4 1.69

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		0.698
Total Dichloro Biphenyls		15.7
Total Trichloro Biphenyls		163
Total Tetrachloro Biphenyls		1060
Total Pentachloro Biphenyls		3980
Total Hexachloro Biphenyls		6650
Total Heptachloro Biphenyls		2370
Total Octachloro Biphenyls		423
Total Nonachloro Biphenyls		78.2
Decachloro Biphenyl		21.0
TOTAL PCBs		14800

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-103_Form1AHT_SJ1249745.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	2.28 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:** **% Lipid:**	78.4 1.69

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		3.23
Total Dichloro Biphenyls		72.7
Total Trichloro Biphenyls		754
Total Tetrachloro Biphenyls		4910
Total Pentachloro Biphenyls		18400
Total Hexachloro Biphenyls		30800
Total Heptachloro Biphenyls		11000
Total Octachloro Biphenyls		1960
Total Nonachloro Biphenyls		362
Decachloro Biphenyl		97.2
TOTAL PCBs		68300

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-103_Form1AHT_SJ1249745_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

Form 1A

HOMOLOGUE TOTAL PCB ANALYSIS REPORT

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	0.178 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:** **% Lipid:**	78.4 1.69

PCB HOMOLOGUE GROUP	LAB FLAG [1]	CONC. FOUND
Total Monochloro Biphenyls		41.4
Total Dichloro Biphenyls		933
Total Trichloro Biphenyls		9680
Total Tetrachloro Biphenyls		63000
Total Pentachloro Biphenyls		236000
Total Hexachloro Biphenyls		395000
Total Heptachloro Biphenyls		141000
Total Octachloro Biphenyls		25100
Total Nonachloro Biphenyls		4630
Decachloro Biphenyl		1250
TOTAL PCBs		876000

(1) Where applicable, custom lab flags have been used on this report.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

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

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.

For Axys Internal Use Only [XSL Template: Form1668HTII.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-103_Form1AHT_SJ1249745_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	10.6 g (wet)	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Concentration Units:	pg/g (wet weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 7**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			15.0	0.257	0.0001	1.50e-03	1.50e-03	1.50e-03
3,4,4',5-TeCB	81			0.589	0.279	0.0003	1.77e-04	1.77e-04	1.77e-04
2,3,3',4,4'-PeCB	105			273	0.746	0.00003	8.19e-03	8.19e-03	8.19e-03
2,3,4,4',5-PeCB	114			14.7	0.831	0.00003	4.41e-04	4.41e-04	4.41e-04
2,3',4,4',5-PeCB	118			850	0.805	0.00003	2.55e-02	2.55e-02	2.55e-02
2',3,4,4',5-PeCB	123			9.76	0.860	0.00003	2.93e-04	2.93e-04	2.93e-04
3,3',4,4',5-PeCB	126			4.05	0.854	0.1	4.05e-01	4.05e-01	4.05e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	102	1.20	0.00003	3.06e-03	3.06e-03	3.06e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			50.2	0.837	0.00003	1.51e-03	1.51e-03	1.51e-03
3,3',4,4',5,5'-HxCB	169		U		1.32	0.03	0.00e+00	1.98e-02	3.96e-02
2,3,3',4,4',5,5'-HpCB	189			6.57	0.187	0.00003	1.97e-04	1.97e-04	1.97e-04
					TOTAL TEQ		0.446	0.466	0.485

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-103_TEQ_SJ1249745.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	2.28 g (dry)	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Concentration Units:	pg/g (dry weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 7**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			69.4	1.19	0.0001	6.94e-03	6.94e-03	6.94e-03
3,4,4',5-TeCB	81			2.73	1.29	0.0003	8.19e-04	8.19e-04	8.19e-04
2,3,3',4,4'-PeCB	105			1260	3.45	0.00003	3.78e-02	3.78e-02	3.78e-02
2,3,4,4',5-PeCB	114			68.1	3.85	0.00003	2.04e-03	2.04e-03	2.04e-03
2,3',4,4',5-PeCB	118			3940	3.73	0.00003	1.18e-01	1.18e-01	1.18e-01
2',3,4,4',5-PeCB	123			45.2	3.98	0.00003	1.36e-03	1.36e-03	1.36e-03
3,3',4,4',5-PeCB	126			18.8	3.95	0.1	1.88e+00	1.88e+00	1.88e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	472	5.56	0.00003	1.42e-02	1.42e-02	1.42e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			232	3.88	0.00003	6.96e-03	6.96e-03	6.96e-03
3,3',4,4',5,5'-HxCB	169		U		6.11	0.03	0.00e+00	9.17e-02	1.83e-01
2,3,3',4,4',5,5'-HpCB	189			30.4	0.866	0.00003	9.12e-04	9.12e-04	9.12e-04
					TOTAL TEQ		2.07	2.16	2.25

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-103_TEQ_SJ1249745_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

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

Contract No.:	4574	**Sample Collection:**	N/A
Matrix:	TISSUE	**Project No.**	L13452
Sample Size:	0.178 g (lipid)	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Concentration Units:	pg/g (lipid weight basis)	**GC Column ID(s):**	SPB OCTYL
		Sample Data Filename(s):	**PB1C_034 S: 7**

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ U=0	TEQ U=1/2 DL	TEQ U=DL
3,3',4,4'-TeCB	77			890	15.3	0.0001	8.90e-02	8.90e-02	8.90e-02
3,4,4',5-TeCB	81			35.0	16.5	0.0003	1.05e-02	1.05e-02	1.05e-02
2,3,3',4,4'-PeCB	105			16200	44.2	0.00003	4.86e-01	4.86e-01	4.86e-01
2,3,4,4',5-PeCB	114			873	49.4	0.00003	2.62e-02	2.62e-02	2.62e-02
2,3',4,4',5-PeCB	118			50500	47.8	0.00003	1.52e+00	1.52e+00	1.52e+00
2',3,4,4',5-PeCB	123			580	51.0	0.00003	1.74e-02	1.74e-02	1.74e-02
3,3',4,4',5-PeCB	126			241	50.7	0.1	2.41e+01	2.41e+01	2.41e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	6050	71.3	0.00003	1.82e-01	1.82e-01	1.82e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			2980	49.8	0.00003	8.94e-02	8.94e-02	8.94e-02
3,3',4,4',5,5'-HxCB	169		U		78.4	0.03	0.00e+00	1.18e+00	2.35e+00
2,3,3',4,4',5,5'-HpCB	189			390	11.1	0.00003	1.17e-02	1.17e-02	1.17e-02
					TOTAL TEQ		26.5	27.7	28.9

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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

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.

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 10-Feb-2011 14:43:48; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_HomTotals-TEQs_WG35116-103_TEQ_SJ1249745_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 4A
PCB CONGENER CALIBRATION VERIFICATION

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

Initial Calibration Date:	24-Jan-2011	**VER Data Filename:**	PB1C_034 S: 1
Instrument ID:	HR GC/MS	**Analysis Date:**	25-Jan-2011
GC Column ID:	SPB OCTYL	**Analysis Time:**	19:38:09

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 (ng/mL)
2-MoCB	1			**M/M+2**	3.11	2.66-3.60	23.5	17.5 - 32.5
4-MoCB	3			**M/M+2**	3.12	2.66-3.60	25.6	17.5 - 32.5
2,2'-DiCB	4			**M/M+2**	1.54	1.33-1.79	26.1	17.5 - 32.5
4,4'-DiCB	15			**M/M+2**	1.64	1.33-1.79	26.4	21.4 - 39.8
2,2',6-TriCB	19			**M/M+2**	1.02	0.88-1.20	26.1	17.5 - 32.5
3,4,4'-TriCB	37			**M/M+2**	1.06	0.88-1.20	25.1	17.5 - 32.5
2,2',6,6'-TeCB	54			**M/M+2**	0.80	0.65-0.89	50.9	35.0 - 65.0
3,3',4,4'-TeCB	77			**M/M+2**	0.78	0.65-0.89	51.1	35.0 - 65.0
3,4,4',5-TeCB	81			**M/M+2**	0.81	0.65-0.89	55.1	35.0 - 65.0
2,2',4,6,6'-PeCB	104			**M+2/M+4**	1.55	1.32-1.78	50.0	35.0 - 65.0
2,3,3',4,4'-PeCB	105			**M+2/M+4**	1.56	1.32-1.78	53.8	35.0 - 65.0
2,3,4,4',5-PeCB	114			**M+2/M+4**	1.57	1.32-1.78	52.2	35.0 - 65.0
2,3',4,4',5-PeCB	118			**M+2/M+4**	1.57	1.32-1.78	49.9	35.0 - 65.0
2',3,4,4',5-PeCB	123			**M+2/M+4**	1.55	1.32-1.78	55.8	35.0 - 65.0
3,3',4,4',5-PeCB	126			**M+2/M+4**	1.58	1.32-1.78	53.0	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			**M+2/M+4**	1.25	1.05-1.43	49.6	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	**M+2/M+4**	1.27	1.05-1.43	103	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			**M+2/M+4**	1.26	1.05-1.43	57.4	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			**M+2/M+4**	1.32	1.05-1.43	58.2	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			**M+2/M+4**	1.03	0.89-1.21	47.9	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			**M+2/M+4**	1.05	0.89-1.21	47.8	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			**M+2/M+4**	0.89	0.76-1.02	77.0	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			**M+2/M+4**	0.90	0.76-1.02	74.4	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			**M+2/M+4**	0.79	0.65-0.89	71.1	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			**M+2/M+4**	0.79	0.65-0.89	73.6	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			**M+2/M+4**	0.71	0.59-0.79	75.1	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

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

For Axys Internal Use Only [XSL Template: Form16684A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PB1C_034S1__Form4A_SJ1249731.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 4B
PCB CONGENER CALIBRATION VERIFICATION

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

Initial Calibration Date:	24-Jan-2011	**VER Data Filename:**	PB1C_034 S: 1
Instrument ID:	HR GC/MS	**Analysis Date:**	25-Jan-2011
GC Column ID:	SPB OCTYL	**Analysis Time:**	19:38:09

LABELED 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 (ng/mL)
13C12-2-MoCB	1L			**M/M+2**	3.22	2.66-3.60	98.5	50.0 - 150
13C12-4-MoCB	3L			**M/M+2**	3.16	2.66-3.60	98.1	50.0 - 150
13C12-2,2'-DiCB	4L			**M/M+2**	1.60	1.33-1.79	100	50.0 - 150
13C12-4,4'-DiCB	15L			**M/M+2**	1.58	1.33-1.79	97.6	50.0 - 150
13C12-2,2',6-TriCB	19L			**M/M+2**	1.05	0.88-1.20	98.6	50.0 - 150
13C12-3,4,4'-TriCB	37L			**M/M+2**	1.05	0.88-1.20	98.0	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			**M/M+2**	0.80	0.65-0.89	96.3	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			**M/M+2**	0.77	0.65-0.89	100	50.0 - 150
13C12-3,4,4',5-TeCB	81L			**M/M+2**	0.79	0.65-0.89	99.9	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			**M+2/M+4**	1.60	1.32-1.78	97.8	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			**M+2/M+4**	1.58	1.32-1.78	97.9	50.0 - 150
13C12-2,3,4,4',5-PeCB	114L			**M+2/M+4**	1.59	1.32-1.78	97.2	50.0 - 150
13C12-2,3',4,4',5-PeCB	118L			**M+2/M+4**	1.58	1.32-1.78	98.7	50.0 - 150
13C12-2',3,4,4',5-PeCB	123L			**M+2/M+4**	1.57	1.32-1.78	99.5	50.0 - 150
13C12-3,3',4,4',5-PeCB	126L			**M+2/M+4**	1.57	1.32-1.78	99.1	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			**M+2/M+4**	1.24	1.05-1.43	96.7	50.0 - 150
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	**M+2/M+4**	1.27	1.05-1.43	195	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			**M+2/M+4**	1.29	1.05-1.43	96.5	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			**M+2/M+4**	1.26	1.05-1.43	101	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			**M+2/M+4**	1.04	0.89-1.21	98.9	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			**M+2/M+4**	1.07	0.89-1.21	98.5	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			**M+2/M+4**	0.90	0.76-1.02	105	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OcCB	205L			**M+2/M+4**	0.90	0.76-1.02	97.4	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			**M+2/M+4**	0.78	0.65-0.89	96.5	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			**M+2/M+4**	0.76	0.65-0.89	103	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			**M+4/M+6**	1.19	0.99-1.33	98.8	50.0 - 150
CLEAN-UP STANDARD								
13C12-2,4,4'-TriCB	28L			**M/M+2**	1.03	0.88-1.20	98.8	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			**M+2/M+4**	1.56	1.32-1.78	98.7	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			**M+2/M+4**	1.03	0.89-1.21	101	60.0 - 130

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

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

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AXYS METHOD MLA-010 Rev 10

Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

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

Initial Calibration Date:	24-Jan-2011	**VER Data Filename:**	PB1C_034 S: 1
Instrument ID:	HR GC/MS	**Analysis Date:**	25-Jan-2011
GC Column ID:	SPB OCTYL	**Analysis Time:**	19:38:09

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	RETENTION TIME REFERENCE	IUPAC NO. [2]	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.001	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.000	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.000	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.001	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.000	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.000	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.001	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

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

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AXYS METHOD MLA-010 Rev 10

Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

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

Initial Calibration Date:	24-Jan-2011	**VER Data Filename:**	PB1C_034 S: 1
Instrument ID:	HR GC/MS	**Analysis Date:**	25-Jan-2011
GC Column ID:	SPB OCTYL	**Analysis Time:**	19:38:09

LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG [2]	RETENTION TIME REFERENCE	IUPAC NO. [1]	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.721	0.689-0.752
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.859	0.827-0.890
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.876	0.844-0.907
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.252	1.221-1.283
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.073	1.042-1.105
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.091	1.071-1.111
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.382-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.201	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.169-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.141-1.162
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.301	1.291-1.312
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.100-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.077	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.192	1.183-1.200
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.711	0.705-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.952-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.817	0.811-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.955
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.066-1.085
CLEANUP STANDARD							
13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.924	0.910-0.937
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.086	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

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

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AXYS METHOD MLA-010 Rev 10

Form 3A

PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES, ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

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

Initial Calibration Date: 24-Jan-2011 **CAL Data Filename:** PB1C_034 S: 1

Instrument ID: HR GC/MS **Analysis Date:** 25-Jan-2011

GC Column ID: SPB OCTYL **Analysis Time:** 19:38:09

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
3-MoCB	2			1.10	**M/M+2**	3.14	2.66-3.60	0.988	0.984 - 0.991
2,3-DiCB	5			1.07	**M/M+2**	1.65	1.33-1.79	1.196	1.192 - 1.200
2,3'-DiCB	6			1.18	**M/M+2**	1.59	1.33-1.79	1.173	1.170 - 1.177
2,4-DiCB	7			1.16	**M/M+2**	1.56	1.33-1.79	1.155	1.152 - 1.159
2,4'-DiCB	8			1.27	**M/M+2**	1.49	1.33-1.79	1.204	1.201 - 1.208
2,5-DiCB	9			1.21	**M/M+2**	1.56	1.33-1.79	1.143	1.140 - 1.147
2,6-DiCB	10			1.24	**M/M+2**	1.57	1.33-1.79	1.013	1.010 - 1.017
3,3'-DiCB	11			1.14	**M/M+2**	1.62	1.33-1.79	0.969	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	1.14	**M/M+2**	1.60	1.33-1.79	0.985	0.982 - 0.987
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.19	**M/M+2**	1.55	1.33-1.79	0.926	0.923 - 0.928
2,2',3-TriCB	16			0.73	**M/M+2**	1.07	0.88-1.20	1.165	1.162 - 1.168
2,2',4-TriCB	17			0.84	**M/M+2**	1.03	0.88-1.20	1.136	1.134 - 1.139
2,2',5-TriCB	18	18 + 30	C	0.99	**M/M+2**	1.05	0.88-1.20	1.110	1.107 - 1.113
2,3,3'-TriCB	20	20 + 28	C	1.32	**M/M+2**	1.06	0.88-1.20	0.849	0.846 - 0.852
2,3,4-TriCB	21	21 + 33	C	1.33	**M/M+2**	1.06	0.88-1.20	0.855	0.852 - 0.858
2,3,4'-TriCB	22			1.21	**M/M+2**	1.05	0.88-1.20	0.873	0.871 - 0.874
2,3,5-TriCB	23			1.23	**M/M+2**	1.04	0.88-1.20	1.279	1.276 - 1.282
2,3,6-TriCB	24			1.06	**M/M+2**	1.05	0.88-1.20	1.158	1.155 - 1.161
2,3',4-TriCB	25			1.46	**M/M+2**	1.07	0.88-1.20	0.825	0.824 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.29	**M/M+2**	1.07	0.88-1.20	1.299	1.294 - 1.304
2,3',6-TriCB	27			1.20	**M/M+2**	1.07	0.88-1.20	1.150	1.147 - 1.153
2,4,4'-TriCB	28	20 + 28	C20						
2,4,5-TriCB	29	26 + 29	C26						
2,4,6-TriCB	30	18 + 30	C18						
2,4',5-TriCB	31			1.39	**M/M+2**	1.04	0.88-1.20	0.836	0.835 - 0.838
2,4',6-TriCB	32			1.35	**M/M+2**	1.05	0.88-1.20	1.195	1.192 - 1.198
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.26	**M/M+2**	1.06	0.88-1.20	1.270	1.267 - 1.273
3,3',4-TriCB	35			1.25	**M/M+2**	1.07	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.37	**M/M+2**	1.08	0.88-1.20	0.931	0.930 - 0.933
3,4,5-TriCB	38			1.34	**M/M+2**	1.07	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.34	**M/M+2**	1.05	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.81	**M/M+2**	0.79	0.65-0.89	1.334	1.330 - 1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.77	**M/M+2**	0.80	0.65-0.89	1.309	1.307 - 1.312
2,2',3,5-TeCB	43			0.71	**M/M+2**	0.80	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.87	**M/M+2**	0.79	0.65-0.89	1.283	1.279 - 1.287
2,2',3,6-TeCB	45	45 + 51	C	0.79	**M/M+2**	0.79	0.65-0.89	1.146	1.142 - 1.150
2,2',3,6'-TeCB	46			0.70	**M/M+2**	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.79	**M/M+2**	0.81	0.65-0.89	1.271	1.268 - 1.273
2,2',4,5'-TeCB	49	49 + 69	C	0.92	**M/M+2**	0.80	0.65-0.89	1.255	1.251 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	0.80	**M/M+2**	0.80	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.86	**M/M+2**	0.79	0.65-0.89	1.232	1.230 - 1.235
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			1.01	**M/M+2**	0.81	0.65-0.89	0.889	0.887 - 0.890
2,3,3',4'-TeCB	56			1.05	**M/M+2**	0.79	0.65-0.89	0.905	0.904 - 0.906

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
2,3,3',5-TeCB	57			1.07	**M/M+2**	0.79	0.65-0.89	0.844	0.842 - 0.845
2,3,3',5'-TeCB	58			1.08	**M/M+2**	0.81	0.65-0.89	0.851	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.04	**M/M+2**	0.79	0.65-0.89	1.300	1.295 - 1.304
2,3,4,4'-TeCB	60			1.04	**M/M+2**	0.79	0.65-0.89	0.911	0.910 - 0.913
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	1.10	**M/M+2**	0.79	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			1.13	**M/M+2**	0.81	0.65-0.89	0.864	0.863 - 0.866
2,3,4',6-TeCB	64			1.09	**M/M+2**	0.79	0.65-0.89	1.347	1.344 - 1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			1.17	**M/M+2**	0.79	0.65-0.89	0.884	0.883 - 0.886
2,3',4,5-TeCB	67			1.22	**M/M+2**	0.79	0.65-0.89	0.856	0.854 - 0.857
2,3',4,5'-TeCB	68			1.11	**M/M+2**	0.79	0.65-0.89	0.831	0.830 - 0.832
2,3',4,6-TeCB	69	49 + 69	C49						
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61						
2,3',4',6-TeCB	71	40 + 41 + 71	C40						
2,3',5,5'-TeCB	72			1.16	**M/M+2**	0.79	0.65-0.89	0.822	0.820 - 0.823
2,3',5',6-TeCB	73			0.97	**M/M+2**	0.79	0.65-0.89	1.239	1.236 - 1.241
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61						
2,4,4',6-TeCB	75	59 + 62 + 75	C59						
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61						
3,3',4,5-TeCB	78			1.08	**M/M+2**	0.79	0.65-0.89	0.987	0.986 - 0.989
3,3',4,5'-TeCB	79			1.31	**M/M+2**	0.81	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			1.20	**M/M+2**	0.80	0.65-0.89	0.923	0.922 - 0.925
2,2',3,3',4-PeCB	82			0.68	**M+2/M+4**	1.60	1.32-1.78	0.934	0.933 - 0.935
2,2',3,3',5-PeCB	83	83 + 99	C	0.76	**M+2/M+4**	1.59	1.32-1.78	0.884	0.881 - 0.887
2,2',3,3',6-PeCB	84			0.67	**M+2/M+4**	1.57	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	0.89	**M+2/M+4**	1.59	1.32-1.78	0.919	0.916 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.85	**M+2/M+4**	1.58	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.74	**M+2/M+4**	1.55	1.32-1.78	1.153	1.149 - 1.156
2,2',3,4,6'-PeCB	89			0.71	**M+2/M+4**	1.60	1.32-1.78	1.183	1.181 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	0.85	**M+2/M+4**	1.58	1.32-1.78	0.868	0.866 - 0.870
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.74	**M+2/M+4**	1.58	1.32-1.78	0.852	0.851 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.76	**M+2/M+4**	1.57	1.32-1.78	1.129	1.118 - 1.140
2,2',3,5,6'-PeCB	94			0.68	**M+2/M+4**	1.55	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.01	**M+2/M+4**	1.59	1.32-1.78	1.017	1.014 - 1.020
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93						
2,2',4,4',5-PeCB	99	83 + 99	C83						
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90						
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93						
2,2',4,5',6-PeCB	103			0.83	**M+2/M+4**	1.59	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			1.09	**M+2/M+4**	1.57	1.32-1.78	1.004	1.002 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	1.03	**M+2/M+4**	1.57	1.32-1.78	0.990	0.988 - 0.992
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			1.09	**M+2/M+4**	1.56	1.32-1.78	0.996	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	0.98	**M+2/M+4**	1.55	1.32-1.78	0.926	0.924 - 0.928
2,3,3',5,5'-PeCB	111			0.99	**M+2/M+4**	1.54	1.32-1.78	0.944	0.943 - 0.946
2,3,3',5,6-PeCB	112			0.96	**M+2/M+4**	1.59	1.32-1.78	0.889	0.887 - 0.890
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
2,3,4,4',6-PeCB	115	110 + 115	C110						
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85						
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85						
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.04	**M+2/M+4**	1.57	1.32-1.78	0.958	0.956 - 0.959
2,3',4,5',6-PeCB	121			0.95	**M+2/M+4**	1.55	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5-PeCB	122			0.98	**M+2/M+4**	1.57	1.32-1.78	1.010	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						

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
3,3',4,5,5'-PeCB	127			1.04	**M+2/M+4**	1.57	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.92	**M+2/M+4**	1.26	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.92	**M+2/M+4**	1.24	1.05-1.43	0.930	0.927 - 0.933
2,2',3,3',4,5'-HxCB	130			0.76	**M+2/M+4**	1.25	1.05-1.43	0.913	0.912 - 0.914
2,2',3,3',4,6-HxCB	131			0.80	**M+2/M+4**	1.26	1.05-1.43	1.161	1.159 - 1.162
2,2',3,3',4,6'-HxCB	132			0.76	**M+2/M+4**	1.27	1.05-1.43	1.176	1.174 - 1.179
2,2',3,3',5,5'-HxCB	133			0.83	**M+2/M+4**	1.26	1.05-1.43	1.192	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.82	**M+2/M+4**	1.27	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.90	**M+2/M+4**	1.23	1.05-1.43	1.108	1.102 - 1.113
2,2',3,3',6,6'-HxCB	136			1.17	**M+2/M+4**	1.25	1.05-1.43	1.026	1.024 - 1.027
2,2',3,4,4',5-HxCB	137			0.83	**M+2/M+4**	1.26	1.05-1.43	0.919	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.89	**M+2/M+4**	1.26	1.05-1.43	1.154	1.151 - 1.156
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.86	**M+2/M+4**	1.28	1.05-1.43	0.903	0.902 - 0.904
2,2',3,4,5,6-HxCB	142			0.82	**M+2/M+4**	1.27	1.05-1.43	1.166	1.164 - 1.167
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.88	**M+2/M+4**	1.26	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.10	**M+2/M+4**	1.26	1.05-1.43	1.035	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			0.95	**M+2/M+4**	1.24	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.91	**M+2/M+4**	1.26	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.86	**M+2/M+4**	1.28	1.05-1.43	1.084	1.082 - 1.086
2,2',3,4',5',6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.14	**M+2/M+4**	1.27	1.05-1.43	1.013	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.21	**M+2/M+4**	1.24	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.04	**M+2/M+4**	1.26	1.05-1.43	0.899	0.897 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.16	**M+2/M+4**	1.26	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.06	**M+2/M+4**	1.26	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.10	**M+2/M+4**	1.26	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.01	**M+2/M+4**	1.27	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.07	**M+2/M+4**	1.26	1.05-1.43	0.921	0.920 - 0.922
2,3,3',5,5',6-HxCB	165			0.99	**M+2/M+4**	1.26	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5',6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.67	**M+2/M+4**	1.03	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.66	**M+2/M+4**	1.02	0.89-1.21	1.163	1.161 - 1.166
2,2',3,3',4,5,5'-HpCB	172			0.66	**M+2/M+4**	1.04	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.67	**M+2/M+4**	1.03	0.89-1.21	1.134	1.133 - 1.136
2,2',3,3',4,5',6-HpCB	175			0.71	**M+2/M+4**	1.04	0.89-1.21	1.102	1.101 - 1.104
2,2',3,3',4,6,6'-HpCB	176			0.92	**M+2/M+4**	1.06	0.89-1.21	1.035	1.034 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.68	**M+2/M+4**	1.04	0.89-1.21	1.146	1.145 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.69	**M+2/M+4**	1.05	0.89-1.21	1.086	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			0.96	**M+2/M+4**	1.03	0.89-1.21	1.011	1.009 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.82	**M+2/M+4**	1.04	0.89-1.21	0.910	0.909 - 0.911
2,2',3,4,4',5,6-HpCB	181			0.68	**M+2/M+4**	1.03	0.89-1.21	1.157	1.155 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.71	**M+2/M+4**	1.05	0.89-1.21	1.116	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.71	**M+2/M+4**	1.06	0.89-1.21	1.128	1.127 - 1.129
2,2',3,4,4',6,6'-HpCB	184			0.96	**M+2/M+4**	1.06	0.89-1.21	1.024	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			0.89	**M+2/M+4**	1.05	0.89-1.21	1.048	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.75	**M+2/M+4**	1.05	0.89-1.21	1.110	1.109 - 1.112
2,3,3',4,4',5,6-HpCB	190			0.89	**M+2/M+4**	1.02	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.87	**M+2/M+4**	1.01	0.89-1.21	0.917	0.916 - 0.918
2,3,3',4,5,5',6-HpCB	192			0.79	**M+2/M+4**	1.04	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.87	**M+2/M+4**	0.91	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.84	**M+2/M+4**	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.82	**M+2/M+4**	0.91	0.76-1.02	0.916	0.915 - 0.917

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
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	1.03	**M+2/M+4**	0.89	0.76-1.02	1.046	1.043 - 1.048
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	0.79	**M+2/M+4**	0.90	0.76-1.02	1.114	1.112 - 1.116
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-OcCB	201			1.03	**M+2/M+4**	0.88	0.76-1.02	1.022	1.020 - 1.024
2,2',3,4,4',5,5',6-OcCB	203			0.84	**M+2/M+4**	0.90	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-OcCB	204			1.03	**M+2/M+4**	0.89	0.76-1.02	1.038	1.037 - 1.040
2,2',3,3',4,4',5,6,6'-NoCB	207			1.19	**M+2/M+4**	0.79	0.65-0.89	1.020	1.019 - 1.021

(1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

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

Signed: _____Jason MacKenzie_____

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AXYS METHOD MLA-010 Rev 10

Form 3B

PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES, ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

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

Initial Calibration Date:	24-Jan-2011	**CAL Data Filename:**	PB1C_034 S: 1
Instrument ID:	HR GC/MS	**Analysis Date:**	25-Jan-2011
GC Column ID:	SPB OCTYL	**Analysis Time:**	19:38:09

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
13C12-2-MoCB	1L			0.94	**M/M+2**	3.22	2.66-3.60	0.721	0.705 - 0.736
13C12-4-MoCB	3L			0.92	**M/M+2**	3.16	2.66-3.60	0.859	0.843 - 0.874
13C12-2,2'-DiCB	4L			0.66	**M/M+2**	1.60	1.33-1.79	0.876	0.860 - 0.891
13C12-4,4'-DiCB	15L			1.01	**M/M+2**	1.58	1.33-1.79	1.252	1.236 - 1.268
13C12-2,2',6-TriCB	19L			0.54	**M/M+2**	1.05	0.88-1.20	1.073	1.058 - 1.089
13C12-3,4,4'-TriCB	37L			1.63	**M/M+2**	1.05	0.88-1.20	1.091	1.081 - 1.101
13C12-2,2',6,6'-TeCB	54L			1.25	**M/M+2**	0.80	0.65-0.89	0.812	0.805 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.38	**M/M+2**	0.77	0.65-0.89	1.396	1.389 - 1.402
13C12-3,4,4',5-TeCB	81L			1.40	**M/M+2**	0.79	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,6,6'-PeCB	104L			1.30	**M+2/M+4**	1.60	1.32-1.78	0.809	0.803 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.35	**M+2/M+4**	1.58	1.32-1.78	1.201	1.196 - 1.206
13C12-2,3,4,4',5-PeCB	114L			1.37	**M+2/M+4**	1.59	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5-PeCB	118L			1.42	**M+2/M+4**	1.58	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5-PeCB	123L			1.43	**M+2/M+4**	1.57	1.32-1.78	1.151	1.146 - 1.157
13C12-3,3',4,4',5-PeCB	126L			1.25	**M+2/M+4**	1.57	1.32-1.78	1.301	1.296 - 1.306
13C12-2,2',4,4',6,6'-HxCB	155L			1.54	**M+2/M+4**	1.24	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.22	**M+2/M+4**	1.27	1.05-1.43	1.108	1.104 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.18	**M+2/M+4**	1.29	1.05-1.43	1.077	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.19	**M+2/M+4**	1.26	1.05-1.43	1.192	1.187 - 1.196
13C12-2,2',3,3',4,4',5-HpCB	170L			0.99	**M+2/M+4**	1.04	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.16	**M+2/M+4**	1.05	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.60	**M+2/M+4**	1.04	0.89-1.21	0.711	0.707 - 0.715
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.48	**M+2/M+4**	1.07	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.28	**M+2/M+4**	0.90	0.76-1.02	0.817	0.813 - 0.821
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.30	**M+2/M+4**	0.90	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.80	**M+2/M+4**	0.78	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.13	**M+2/M+4**	0.76	0.65-0.89	0.949	0.944 - 0.954

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

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

Signed: _____Jason MacKenzie_____

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AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-1 (A)
Matrix:	TISSUE	**Sample Size:**	10.0 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	77.4
		% Lipid:	1.84

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		U		0.511 (S)		
3-MoCB	2		U		0.517 (S)		
4-MoCB	3		U		0.513 (S)		
2,2'-DiCB	4		U		1.39 (S)		
2,3-DiCB	5		U		0.948 (S)		
2,3'-DiCB	6		U		0.857 (S)		
2,4-DiCB	7		U		0.875 (S)		
2,4'-DiCB	8		B	3.48	0.795 (S)	1.55	1.206
2,5-DiCB	9		U		0.838 (S)		
2,6-DiCB	10		U		0.819 (S)		
3,3'-DiCB	11		B	8.87	0.886 (S)	1.54	0.969
3,4-DiCB	12	12 + 13	C U		0.893 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.853 (S)		
4,4'-DiCB	15		U		0.888 (S)		
2,2',3-TriCB	16		B	2.67	0.591 (S)	1.12	1.166
2,2',4-TriCB	17		B	2.20	0.516 (S)	1.19	1.138
2,2',5-TriCB	18	18 + 30	C B	10.3	0.436 (S)	1.08	1.113
2,2',6-TriCB	19		K	1.12	0.603 (S)	1.23	1.001
2,3,3'-TriCB	20	20 + 28	C B	75.1	0.392 (S)	1.08	0.847
2,3,4-TriCB	21	21 + 33	C B	10.1	0.389 (S)	1.11	0.857
2,3,4'-TriCB	22		B	11.9	0.426 (S)	1.02	0.872
2,3,5-TriCB	23		U		0.420 (S)		
2,3,6-TriCB	24		U		0.407 (S)		
2,3',4-TriCB	25			2.90	0.355 (S)	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	7.37	0.402 (S)	1.12	1.300
2,3',6-TriCB	27			1.18	0.361 (S)	0.96	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	44.4	0.371 (S)	1.05	0.836
2,4',6-TriCB	32		B	2.20	0.382 (S)	1.10	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.411 (S)		
3,3',4-TriCB	35		U		0.414 (S)		
3,3',5-TriCB	36		U		0.376 (S)		
3,4,4'-TriCB	37		B	3.46	0.412 (S)	1.08	1.001
3,4,5-TriCB	38		U		0.387 (S)		
3,4',5-TriCB	39		U		0.386 (S)		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	27.1	0.509 (S)	0.82	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	23.2	0.531 (S)	0.77	1.310
2,2',3,5-TeCB	43		K	1.77	0.578 (S)	1.07	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	147	0.472 (S)	0.79	1.284
2,2',3,6-TeCB	45	45 + 51	C B	3.11	0.520 (S)	0.78	1.145
2,2',3,6'-TeCB	46		K	0.656	0.589 (S)	0.56	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			4.69	0.520 (S)	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	70.5	0.447 (S)	0.76	1.257
2,2',4,6-TeCB	50	50 + 53	C	4.57	0.513 (S)	0.81	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	137	0.477 (S)	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.451 (S)		
2,3,3',4-TeCB	55		U		1.70 (S)		
2,3,3',4'-TeCB	56		B	32.2	1.63 (S)	0.79	0.905
2,3,3',5-TeCB	57		K	1.74	1.60 (S)	0.92	0.843
2,3,3',5'-TeCB	58		U		1.60 (S)		
2,3,3',6-TeCB	59	59 + 62 + 75	C B	12.3	0.396 (S)	0.76	1.301
2,3,4,4'-TeCB	60		B	43.5	1.66 (S)	0.74	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	339	1.56 (S)	0.80	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			13.6	1.52 (S)	0.76	0.864
2,3,4',6-TeCB	64		B	34.5	0.375 (S)	0.79	1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	193	1.47 (S)	0.76	0.884
2,3',4,5-TeCB	67			3.73	1.41 (S)	0.86	0.855
2,3',4,5'-TeCB	68			6.34	1.54 (S)	0.77	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			6.80	1.49 (S)	0.76	0.821
2,3',5',6-TeCB	73		U		0.421 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	13.9	1.62 (S)	0.72	1.000
3,3',4,5-TeCB	78		U		1.58 (S)		
3,3',4,5'-TeCB	79			6.33	1.31 (S)	0.77	0.969
3,3',5,5'-TeCB	80		U		1.44 (S)		
3,4,4',5-TeCB	81		U		1.69 (S)		
2,2',3,3',4-PeCB	82			30.6	0.827 (S)	1.54	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	733	0.735 (S)	1.61	0.885
2,2',3,3',6-PeCB	84		B	33.8	0.841 (S)	1.48	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	163	0.632 (S)	1.58	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	295	0.658 (S)	1.54	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	39.8	0.762 (S)	1.57	1.155
2,2',3,4,6'-PeCB	89		U		0.792 (S)		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	698	0.665 (S)	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	142	0.754 (S)	1.60	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	195	0.743 (S)	1.61	1.121
2,2',3,5,6'-PeCB	94		K	1.26	0.823 (S)	2.88	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.427 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			5.67	0.677 (S)	1.36	1.093
2,2',4,6,6'-PeCB	104		U		0.452 (S)		
2,3,3',4,4'-PeCB	105		B	277	2.40 (S)	1.55	1.001
2,3,3',4,5-PeCB	106		U		2.28 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	17.7	2.42 (S)	1.62	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	85.6	2.28 (S)	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	399	0.572 (S)	1.56	0.925
2,3,3',5,5'-PeCB	111			3.59	0.570 (S)	1.60	0.944
2,3,3',5,6-PeCB	112		U		0.585 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			14.9	2.46 (S)	1.48	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	835	2.44 (S)	1.56	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			14.5	0.539 (S)	1.58	0.958
2,3',4,5',6-PeCB	121		K	1.62	0.588 (S)	1.17	1.199
2',3,3',4,5-PeCB	122			4.39	2.55 (S)	1.59	1.011
2',3,4,4',5-PeCB	123			9.56	2.48 (S)	1.71	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			3.81	2.63 (S)	1.74	1.000
3,3',4,5,5'-PeCB	127		U		2.39 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	245	2.09 (S)	1.23	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1840	2.10 (S)	1.26	0.929
2,2',3,3',4,5'-HxCB	130		B	97.5	2.53 (S)	1.24	0.913
2,2',3,3',4,6-HxCB	131			4.95	2.42 (S)	1.23	1.161
2,2',3,3',4,6'-HxCB	132		B	143	2.53 (S)	1.29	1.177
2,2',3,3',5,5'-HxCB	133		B	49.1	2.32 (S)	1.31	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	36.6	2.36 (S)	1.28	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	350	0.568 (S)	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	31.4	0.438 (S)	1.23	1.026
2,2',3,4,4',5-HxCB	137		B	39.9	2.34 (S)	1.07	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	19.3	2.16 (S)	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	73.7	2.25 (S)	1.26	0.903
2,2',3,4,5,6-HxCB	142		U		2.34 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	25.0	0.583 (S)	1.31	1.122
2,2',3,4,6,6'-HxCB	145		U		0.465 (S)		
2,2',3,4',5,5'-HxCB	146		B	433	2.02 (S)	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	590	2.12 (S)	1.28	1.134
2,2',3,4',5,6'-HxCB	148			7.27	0.594 (S)	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		K	1.75	0.449 (S)	1.46	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.421 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	2230	1.85 (S)	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			3.26	0.405 (S)	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	101	2.37 (S)	1.23	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	77.3	1.66 (S)	1.25	0.938
2,3,3',4,5,5'-HxCB	159			5.10	1.82 (S)	1.14	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		1.75 (S)		
2,3,3',4',5,5'-HxCB	162			8.11	1.90 (S)	1.35	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	41.5	1.80 (S)	1.36	0.921
2,3,3',5,5',6-HxCB	165			5.40	1.95 (S)	1.30	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	49.5	1.72 (S)	1.29	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.84 (S)		
2,2',3,3',4,4',5-HpCB	170		B	153	0.642 (S)	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	62.8	0.654 (S)	1.03	1.163
2,2',3,3',4,5,5'-HpCB	172		B	39.0	0.651 (S)	1.00	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	103	0.643 (S)	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			14.9	0.609 (S)	1.10	1.102
2,2',3,3',4,6,6'-HpCB	176			17.2	0.467 (S)	0.99	1.035
2,2',3,3',4',5,6-HpCB	177		B	177	0.631 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	131	0.621 (S)	1.02	1.085
2,2',3,3',5,6,6'-HpCB	179		B	76.6	0.450 (S)	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	447	0.527 (S)	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		K	1.41	0.630 (S)	0.69	1.157
2,2',3,4,4',5,6'-HpCB	182			4.20	0.604 (S)	1.19	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	204	0.610 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			2.19	0.447 (S)	0.92	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.485 (S)		
2,2',3,4',5,5',6-HpCB	187		B	764	0.575 (S)	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			4.06	0.434 (S)	0.95	1.000
2,3,3',4,4',5,5'-HpCB	189			6.56	0.506 (S)	1.14	1.001
2,3,3',4,4',5,6-HpCB	190		B	27.9	0.486 (S)	1.09	0.947
2,3,3',4,4',5',6-HpCB	191			6.00	0.495 (S)	1.02	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.544 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	61.4	0.610 (S)	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	18.8	0.633 (S)	0.86	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	41.3	0.584 (S)	0.89	0.915
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	13.0	0.461 (S)	0.78	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	130	0.602 (S)	0.90	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			25.8	0.463 (S)	0.90	1.022
2,2',3,3',5,5',6,6'-OcCB	202		B	77.9	0.500 (S)	0.88	1.000
2,2',3,4,4',5,5',6-OcCB	203		B	60.7	0.565 (S)	0.93	0.919
2,2',3,4,4',5,6,6'-OcCB	204		U		0.460 (S)		
2,3,3',4,4',5,5',6-OcCB	205			3.27	0.545 (S)	0.85	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		B	44.8	0.742 (S)	0.81	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			8.80	0.584 (S)	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	23.5	0.579 (S)	0.84	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			20.6	0.701 (S)	0.72	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-1_Form1A_PB1C_034S6_SJ1249743.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-1 (A)
Matrix:	TISSUE	**Sample Size:**	2.26 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:**	77.4
		% Lipid:	1.84

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-MoCB	1		U		2.26 (S)		
3-MoCB	2		U		2.29 (S)		
4-MoCB	3		U		2.27 (S)		
2,2'-DiCB	4		U		6.16 (S)		
2,3-DiCB	5		U		4.20 (S)		
2,3'-DiCB	6		U		3.80 (S)		
2,4-DiCB	7		U		3.87 (S)		
2,4'-DiCB	8		B	15.5	3.52 (S)	1.55	1.206
2,5-DiCB	9		U		3.71 (S)		
2,6-DiCB	10		U		3.63 (S)		
3,3'-DiCB	11		B	39.3	3.92 (S)	1.54	0.969
3,4-DiCB	12	12 + 13	C U		3.96 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		3.78 (S)		
4,4'-DiCB	15		U		3.94 (S)		
2,2',3-TriCB	16		B	11.8	2.62 (S)	1.12	1.166
2,2',4-TriCB	17		B	9.77	2.29 (S)	1.19	1.138
2,2',5-TriCB	18	18 + 30	C B	45.7	1.93 (S)	1.08	1.113
2,2',6-TriCB	19		K	4.96	2.67 (S)	1.23	1.001
2,3,3'-TriCB	20	20 + 28	C B	333	1.73 (S)	1.08	0.847
2,3,4-TriCB	21	21 + 33	C B	44.8	1.73 (S)	1.11	0.857
2,3,4'-TriCB	22		B	52.7	1.89 (S)	1.02	0.872
2,3,5-TriCB	23		U		1.86 (S)		
2,3,6-TriCB	24		U		1.81 (S)		
2,3',4-TriCB	25			12.9	1.57 (S)	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	32.6	1.78 (S)	1.12	1.300
2,3',6-TriCB	27			5.23	1.60 (S)	0.96	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	197	1.64 (S)	1.05	0.836
2,4',6-TriCB	32		B	9.77	1.69 (S)	1.10	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		1.82 (S)		
3,3',4-TriCB	35		U		1.83 (S)		
3,3',5-TriCB	36		U		1.67 (S)		
3,4,4'-TriCB	37		B	15.3	1.82 (S)	1.08	1.001
3,4,5-TriCB	38		U		1.72 (S)		
3,4',5-TriCB	39		U		1.71 (S)		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	120	2.25 (S)	0.82	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	103	2.35 (S)	0.77	1.310
2,2',3,5-TeCB	43		K	7.85	2.56 (S)	1.07	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	652	2.09 (S)	0.79	1.284
2,2',3,6-TeCB	45	45 + 51	C B	13.8	2.30 (S)	0.78	1.145
2,2',3,6'-TeCB	46		K	2.91	2.61 (S)	0.56	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			20.8	2.30 (S)	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	312	1.98 (S)	0.76	1.257
2,2',4,6-TeCB	50	50 + 53	C	20.3	2.27 (S)	0.81	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	607	2.12 (S)	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		2.00 (S)		
2,3,3',4-TeCB	55		U		7.54 (S)		
2,3,3',4'-TeCB	56		B	142	7.23 (S)	0.79	0.905
2,3,3',5-TeCB	57		K	7.71	7.09 (S)	0.92	0.843
2,3,3',5'-TeCB	58		U		7.09 (S)		
2,3,3',6-TeCB	59	59 + 62 + 75	C B	54.5	1.76 (S)	0.76	1.301
2,3,4,4'-TeCB	60		B	193	7.36 (S)	0.74	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	1510	6.92 (S)	0.80	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			60.3	6.74 (S)	0.76	0.864
2,3,4',6-TeCB	64		B	153	1.66 (S)	0.79	1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	854	6.52 (S)	0.76	0.884
2,3',4,5-TeCB	67			16.5	6.25 (S)	0.86	0.855
2,3',4,5'-TeCB	68			28.1	6.83 (S)	0.77	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			30.1	6.60 (S)	0.76	0.821
2,3',5',6-TeCB	73		U		1.86 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	61.6	7.18 (S)	0.72	1.000
3,3',4,5-TeCB	78		U		7.00 (S)		
3,3',4,5'-TeCB	79			28.1	5.80 (S)	0.77	0.969
3,3',5,5'-TeCB	80		U		6.38 (S)		
3,4,4',5-TeCB	81		U		7.49 (S)		
2,2',3,3',4-PeCB	82			136	3.66 (S)	1.54	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	3250	3.26 (S)	1.61	0.885
2,2',3,3',6-PeCB	84		B	150	3.73 (S)	1.48	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	723	2.80 (S)	1.58	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1310	2.91 (S)	1.54	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	177	3.38 (S)	1.57	1.155
2,2',3,4,6'-PeCB	89		U		3.51 (S)		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	3090	2.95 (S)	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	629	3.34 (S)	1.60	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	863	3.30 (S)	1.61	1.121
2,2',3,5,6'-PeCB	94		K	5.58	3.65 (S)	2.88	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		1.90 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			25.1	3.00 (S)	1.36	1.093
2,2',4,6,6'-PeCB	104		U		2.00 (S)		
2,3,3',4,4'-PeCB	105		B	1230	10.7 (S)	1.55	1.001
2,3,3',4,5-PeCB	106		U		10.1 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	78.5	10.7 (S)	1.62	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	379	10.1 (S)	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1770	2.53 (S)	1.56	0.925
2,3,3',5,5'-PeCB	111			15.9	2.52 (S)	1.60	0.944
2,3,3',5,6-PeCB	112		U		2.60 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			66.0	10.9 (S)	1.48	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	3700	10.8 (S)	1.56	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			64.3	2.39 (S)	1.58	0.958
2,3',4,5',6-PeCB	121		K	7.18	2.60 (S)	1.17	1.199
2',3,3',4,5-PeCB	122			19.4	11.3 (S)	1.59	1.011
2',3,4,4',5-PeCB	123			42.4	11.0 (S)	1.71	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			16.8	11.6 (S)	1.74	1.000
3,3',4,5,5'-PeCB	127		U		10.6 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1080	9.28 (S)	1.23	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	8140	9.28 (S)	1.26	0.929
2,2',3,3',4,5'-HxCB	130		B	432	11.2 (S)	1.24	0.913
2,2',3,3',4,6-HxCB	131			22.0	10.7 (S)	1.23	1.161
2,2',3,3',4,6'-HxCB	132		B	634	11.2 (S)	1.29	1.177
2,2',3,3',5,5'-HxCB	133		B	217	10.3 (S)	1.31	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	162	10.5 (S)	1.28	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1550	2.51 (S)	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	139	1.94 (S)	1.23	1.026
2,2',3,4,4',5-HxCB	137		B	177	10.3 (S)	1.07	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	85.4	9.60 (S)	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	326	10.0 (S)	1.26	0.903
2,2',3,4,5,6-HxCB	142		U		10.3 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	111	2.58 (S)	1.31	1.122
2,2',3,4,6,6'-HxCB	145		U		2.06 (S)		
2,2',3,4',5,5'-HxCB	146		B	1920	8.95 (S)	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2610	9.36 (S)	1.28	1.134
2,2',3,4',5,6'-HxCB	148			32.2	2.63 (S)	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		K	7.76	1.99 (S)	1.46	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		1.86 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	9850	8.22 (S)	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.5	1.80 (S)	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	448	10.5 (S)	1.23	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	343	7.36 (S)	1.25	0.938
2,3,3',4,5,5'-HxCB	159			22.6	8.06 (S)	1.14	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		7.76 (S)		
2,3,3',4',5,5'-HxCB	162			36.0	8.38 (S)	1.35	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	184	7.98 (S)	1.36	0.921
2,3,3',5,5',6-HxCB	165			23.9	8.63 (S)	1.30	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	220	7.63 (S)	1.29	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		8.14 (S)		
2,2',3,3',4,4',5-HpCB	170		B	678	2.85 (S)	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	278	2.90 (S)	1.03	1.163
2,2',3,3',4,5,5'-HpCB	172		B	173	2.89 (S)	1.00	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	457	2.85 (S)	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			66.0	2.70 (S)	1.10	1.102
2,2',3,3',4,6,6'-HpCB	176			76.3	2.07 (S)	0.99	1.035
2,2',3,3',4',5,6-HpCB	177		B	785	2.80 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	580	2.75 (S)	1.02	1.085
2,2',3,3',5,6,6'-HpCB	179		B	339	1.99 (S)	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1980	2.34 (S)	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		K	6.25	2.79 (S)	0.69	1.157
2,2',3,4,4',5,6'-HpCB	182			18.6	2.68 (S)	1.19	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	903	2.70 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			9.68	1.98 (S)	0.92	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		2.15 (S)		
2,2',3,4',5,5',6-HpCB	187		B	3390	2.55 (S)	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			18.0	1.92 (S)	0.95	1.000
2,3,3',4,4',5,5'-HpCB	189			29.1	2.25 (S)	1.14	1.001
2,3,3',4,4',5,6-HpCB	190		B	124	2.16 (S)	1.09	0.947
2,3,3',4,4',5',6-HpCB	191			26.6	2.20 (S)	1.02	0.917
2,3,3',4,5,5',6-HpCB	192		U		2.41 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	272	2.70 (S)	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	83.0	2.81 (S)	0.86	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	183	2.59 (S)	0.89	0.915
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	57.6	2.04 (S)	0.78	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	576	2.67 (S)	0.90	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			114	2.05 (S)	0.90	1.022
2,2',3,3',5,5',6,6'-OcCB	202		B	345	2.21 (S)	0.88	1.000
2,2',3,4,4',5,5',6-OcCB	203		B	269	2.51 (S)	0.93	0.919
2,2',3,4,4',5,6,6'-OcCB	204		U		2.04 (S)		
2,3,3',4,4',5,5',6-OcCB	205			14.5	2.42 (S)	0.85	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		B	199	3.29 (S)	0.81	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			39.0	2.59 (S)	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	104	2.56 (S)	0.84	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			91.1	3.11 (S)	0.72	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-1_Form1A_PB1C_034S6_SJ1249743_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-1 (A)
Matrix:	TISSUE	**Sample Size:**	0.184 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:**	77.4
		% Lipid:	1.84

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		U		27.8 (S)		
3-MoCB	2		U		28.2 (S)		
4-MoCB	3		U		27.9 (S)		
2,2'-DiCB	4		U		75.7 (S)		
2,3-DiCB	5		U		51.6 (S)		
2,3'-DiCB	6		U		46.7 (S)		
2,4-DiCB	7		U		47.6 (S)		
2,4'-DiCB	8		B	190	43.3 (S)	1.55	1.206
2,5-DiCB	9		U		45.6 (S)		
2,6-DiCB	10		U		44.6 (S)		
3,3'-DiCB	11		B	483	48.2 (S)	1.54	0.969
3,4-DiCB	12	12 + 13	C U		48.6 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		46.5 (S)		
4,4'-DiCB	15		U		48.4 (S)		
2,2',3-TriCB	16		B	145	32.2 (S)	1.12	1.166
2,2',4-TriCB	17		B	120	28.1 (S)	1.19	1.138
2,2',5-TriCB	18	18 + 30	C B	561	23.7 (S)	1.08	1.113
2,2',6-TriCB	19		K	61.0	32.8 (S)	1.23	1.001
2,3,3'-TriCB	20	20 + 28	C B	4090	21.3 (S)	1.08	0.847
2,3,4-TriCB	21	21 + 33	C B	550	21.2 (S)	1.11	0.857
2,3,4'-TriCB	22		B	648	23.2 (S)	1.02	0.872
2,3,5-TriCB	23		U		22.9 (S)		
2,3,6-TriCB	24		U		22.2 (S)		
2,3',4-TriCB	25			158	19.3 (S)	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	401	21.9 (S)	1.12	1.300
2,3',6-TriCB	27			64.3	19.7 (S)	0.96	1.151
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	2420	20.2 (S)	1.05	0.836
2,4',6-TriCB	32		B	120	20.8 (S)	1.10	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		22.4 (S)		
3,3',4-TriCB	35		U		22.5 (S)		
3,3',5-TriCB	36		U		20.5 (S)		
3,4,4'-TriCB	37		B	188	22.4 (S)	1.08	1.001
3,4,5-TriCB	38		U		21.1 (S)		
3,4',5-TriCB	39		U		21.0 (S)		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1480	27.7 (S)	0.82	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1260	28.9 (S)	0.77	1.310
2,2',3,5-TeCB	43		K	96.4	31.5 (S)	1.07	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	8010	25.7 (S)	0.79	1.284
2,2',3,6-TeCB	45	45 + 51	C B	169	28.3 (S)	0.78	1.145
2,2',3,6'-TeCB	46		K	35.7	32.1 (S)	0.56	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			255	28.3 (S)	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	3840	24.3 (S)	0.76	1.257
2,2',4,6-TeCB	50	50 + 53	C	249	27.9 (S)	0.81	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	7460	26.0 (S)	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		24.6 (S)		
2,3,3',4-TeCB	55		U		92.6 (S)		
2,3,3',4'-TeCB	56		B	1750	88.8 (S)	0.79	0.905
2,3,3',5-TeCB	57		K	94.8	87.1 (S)	0.92	0.843
2,3,3',5'-TeCB	58		U		87.1 (S)		
2,3,3',6-TeCB	59	59 + 62 + 75	C B	670	21.6 (S)	0.76	1.301
2,3,4,4'-TeCB	60		B	2370	90.4 (S)	0.74	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	18500	85.0 (S)	0.80	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			741	82.8 (S)	0.76	0.864
2,3,4',6-TeCB	64		B	1880	20.4 (S)	0.79	1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	10500	80.1 (S)	0.76	0.884
2,3',4,5-TeCB	67			203	76.8 (S)	0.86	0.855
2,3',4,5'-TeCB	68			345	83.9 (S)	0.77	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			370	81.1 (S)	0.76	0.821
2,3',5',6-TeCB	73		U		22.9 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	757	88.2 (S)	0.72	1.000
3,3',4,5-TeCB	78		U		86.0 (S)		
3,3',4,5'-TeCB	79			345	71.3 (S)	0.77	0.969
3,3',5,5'-TeCB	80		U		78.4 (S)		
3,4,4',5-TeCB	81		U		92.0 (S)		
2,2',3,3',4-PeCB	82			1670	45.0 (S)	1.54	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	39900	40.0 (S)	1.61	0.885
2,2',3,3',6-PeCB	84		B	1840	45.8 (S)	1.48	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	8880	34.4 (S)	1.58	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	16100	35.8 (S)	1.54	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	2170	41.5 (S)	1.57	1.155
2,2',3,4,6'-PeCB	89		U		43.1 (S)		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	38000	36.2 (S)	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	7730	41.1 (S)	1.60	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	10600	40.5 (S)	1.61	1.121
2,2',3,5,6'-PeCB	94		K	68.6	44.8 (S)	2.88	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		23.3 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			309	36.9 (S)	1.36	1.093
2,2',4,6,6'-PeCB	104		U		24.6 (S)		
2,3,3',4,4'-PeCB	105		B	15100	131 (S)	1.55	1.001
2,3,3',4,5-PeCB	106		U		124 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	964	132 (S)	1.62	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	4660	124 (S)	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	21700	31.1 (S)	1.56	0.925
2,3,3',5,5'-PeCB	111			195	31.0 (S)	1.60	0.944
2,3,3',5,6-PeCB	112		U		31.9 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			811	134 (S)	1.48	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	45500	133 (S)	1.56	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			790	29.4 (S)	1.58	0.958
2,3',4,5',6-PeCB	121		K	88.2	32.0 (S)	1.17	1.199
2',3,3',4,5-PeCB	122			239	139 (S)	1.59	1.011
2',3,4,4',5-PeCB	123			521	135 (S)	1.71	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			207	143 (S)	1.74	1.000
3,3',4,5,5'-PeCB	127		U		130 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	13300	114 (S)	1.23	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	100000	114 (S)	1.26	0.929
2,2',3,3',4,5'-HxCB	130		B	5310	138 (S)	1.24	0.913
2,2',3,3',4,6-HxCB	131			270	132 (S)	1.23	1.161
2,2',3,3',4,6'-HxCB	132		B	7790	138 (S)	1.29	1.177
2,2',3,3',5,5'-HxCB	133		B	2670	126 (S)	1.31	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	1990	129 (S)	1.28	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	19100	30.9 (S)	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	1710	23.9 (S)	1.23	1.026
2,2',3,4,4',5-HxCB	137		B	2170	127 (S)	1.07	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1050	118 (S)	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	4010	123 (S)	1.26	0.903
2,2',3,4,5,6-HxCB	142		U		127 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	1360	31.7 (S)	1.31	1.122
2,2',3,4,6,6'-HxCB	145		U		25.3 (S)		
2,2',3,4',5,5'-HxCB	146		B	23600	110 (S)	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	32100	115 (S)	1.28	1.134
2,2',3,4',5,6'-HxCB	148			396	32.3 (S)	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		K	95.3	24.5 (S)	1.46	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		22.9 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	121000	101 (S)	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			178	22.1 (S)	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	5500	129 (S)	1.23	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	4210	90.4 (S)	1.25	0.938
2,3,3',4,5,5'-HxCB	159			278	99.1 (S)	1.14	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		95.3 (S)		
2,3,3',4',5,5'-HxCB	162			442	103 (S)	1.35	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	2260	98.0 (S)	1.36	0.921
2,3,3',5,5',6-HxCB	165			294	106 (S)	1.30	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	2700	93.7 (S)	1.29	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		100 (S)		
2,2',3,3',4,4',5-HpCB	170		B	8330	35.0 (S)	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	3420	35.6 (S)	1.03	1.163
2,2',3,3',4,5,5'-HpCB	172		B	2120	35.5 (S)	1.00	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	5610	35.0 (S)	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			811	33.2 (S)	1.10	1.102
2,2',3,3',4,6,6'-HpCB	176			937	25.4 (S)	0.99	1.035
2,2',3,3',4',5,6-HpCB	177		B	9640	34.4 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	7130	33.8 (S)	1.02	1.085
2,2',3,3',5,6,6'-HpCB	179		B	4170	24.5 (S)	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	24300	28.7 (S)	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		K	76.8	34.3 (S)	0.69	1.157
2,2',3,4,4',5,6'-HpCB	182			229	32.9 (S)	1.19	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	11100	33.2 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			119	24.3 (S)	0.92	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		26.4 (S)		
2,2',3,4',5,5',6-HpCB	187		B	41600	31.3 (S)	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			221	23.6 (S)	0.95	1.000
2,3,3',4,4',5,5'-HpCB	189			357	27.6 (S)	1.14	1.001
2,3,3',4,4',5,6-HpCB	190		B	1520	26.5 (S)	1.09	0.947
2,3,3',4,4',5',6-HpCB	191			327	27.0 (S)	1.02	0.917
2,3,3',4,5,5',6-HpCB	192		U		29.6 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	3340	33.2 (S)	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	1020	34.5 (S)	0.86	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	2250	31.8 (S)	0.89	0.915
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	708	25.1 (S)	0.78	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	7080	32.8 (S)	0.90	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			1400	25.2 (S)	0.90	1.022
2,2',3,3',5,5',6,6'-OcCB	202		B	4240	27.2 (S)	0.88	1.000
2,2',3,4,4',5,5',6-OcCB	203		B	3310	30.8 (S)	0.93	0.919
2,2',3,4,4',5,6,6'-OcCB	204		U		25.1 (S)		
2,3,3',4,4',5,5',6-OcCB	205			178	29.7 (S)	0.85	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		B	2440	40.4 (S)	0.81	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			479	31.8 (S)	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	1280	31.5 (S)	0.84	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1120	38.2 (S)	0.72	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-1_Form1A_PB1C_034S6_SJ1249743_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Schoppee-10M
Sample Collection:
N/A

Form 2

PCB CONGENER ANALYSIS REPORT

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

Contract No.:	4574	**Project No.**	L13452
Matrix:	TISSUE	**Lab Sample I.D.:**	L15870-1 (A)
Sample Receipt Date:	14-Dec-2010	**Sample Size:**	10.0 g (wet)
Extraction Date:	06-Jan-2011	**Initial Calibration Date:**	24-Jan-2011
Analysis Date:	26-Jan-2011 **Time:** 00:59:53	**Instrument ID:**	HR GC/MS
		GC Column ID:	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg absolute	**% Moisture:**	77.4
		% Lipid:	1.84

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LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG [2]	SPIKE CONC.	CONC. FOUND	R(%) [3]	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		V	2000	195	9.74	3.20	0.720
13C12-4-MoCB	3L		V	2000	247	12.3	3.25	0.860
13C12-2,2'-DiCB	4L		V	2000	278	13.9	1.56	0.875
13C12-4,4'-DiCB	15L		V	2000	348	17.4	1.62	1.254
13C12-2,2',6-TriCB	19L		V	2000	365	18.3	1.03	1.073
13C12-3,4,4'-TriCB	37L			2000	501	25.0	1.01	1.092
13C12-2,2',6,6'-TeCB	54L		V	2000	417	20.8	0.83	0.812
13C12-3,3',4,4'-TeCB	77L			2000	613	30.6	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	596	29.8	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	556	27.8	1.57	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	698	34.9	1.57	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	650	32.5	1.57	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	678	33.9	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	673	33.7	1.55	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	706	35.3	1.55	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	558	27.9	1.23	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	1370	34.3	1.26	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	678	33.9	1.30	1.078
13C12-3,3',4,4',5,5'-HxCB	169L			2000	675	33.8	1.24	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	719	36.0	1.05	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	727	36.3	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	670	33.5	1.05	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	703	35.2	1.08	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	796	39.8	0.89	0.817
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	686	34.3	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	710	35.5	0.81	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	723	36.2	0.78	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	738	36.9	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		V	2000	475	23.7	1.02	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	672	33.6	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	749	37.4	1.03	1.012

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

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

Signed: _____Alina Tarnauceanu_____

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-3
Matrix:	TISSUE	**Sample Size:**	10.3 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	77.6
		% Lipid:	2.00

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.276	0.0769 (S)	3.12	1.000
3-MoCB	2		B	0.240	0.0818 (S)	2.75	0.988
4-MoCB	3		B	0.273	0.0847 (S)	3.13	1.000
2,2'-DiCB	4			1.29	0.281 (S)	1.52	1.001
2,3-DiCB	5		U		0.189 (S)		
2,3'-DiCB	6			0.716	0.171 (S)	1.75	1.173
2,4-DiCB	7		K B	0.185	0.175 (S)	2.23	1.157
2,4'-DiCB	8		B	3.80	0.159 (S)	1.55	1.206
2,5-DiCB	9		K	0.243	0.168 (S)	0.89	1.144
2,6-DiCB	10		U		0.164 (S)		
3,3'-DiCB	11		B	8.02	0.177 (S)	1.55	0.969
3,4-DiCB	12	12 + 13	C U		0.179 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.171 (S)		
4,4'-DiCB	15		B	0.708	0.175 (S)	1.73	1.001
2,2',3-TriCB	16		B	2.63	0.142 (S)	1.04	1.165
2,2',4-TriCB	17		B	2.52	0.124 (S)	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	9.81	0.105 (S)	1.07	1.111
2,2',6-TriCB	19			0.822	0.143 (S)	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	70.2	0.137 (S)	1.05	0.847
2,3,4-TriCB	21	21 + 33	C B	9.91	0.136 (S)	1.08	0.857
2,3,4'-TriCB	22		B	11.8	0.149 (S)	1.03	0.872
2,3,5-TriCB	23		U		0.147 (S)		
2,3,6-TriCB	24			0.168	0.0979 (S)	0.97	1.157
2,3',4-TriCB	25			3.29	0.124 (S)	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	7.86	0.141 (S)	1.03	1.299
2,3',6-TriCB	27			0.996	0.0868 (S)	1.02	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	41.4	0.130 (S)	1.06	0.836
2,4',6-TriCB	32		B	2.71	0.134 (S)	1.07	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.144 (S)		
3,3',4-TriCB	35		U		0.145 (S)		
3,3',5-TriCB	36		K	0.150	0.131 (S)	0.70	0.931
3,4,4'-TriCB	37		B	3.68	0.146 (S)	1.03	1.001
3,4,5-TriCB	38		U		0.135 (S)		
3,4',5-TriCB	39			0.441	0.135 (S)	0.97	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	24.1	0.139 (S)	0.79	1.336
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	23.0	0.145 (S)	0.79	1.311
2,2',3,5-TeCB	43			1.73	0.158 (S)	0.73	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	140	0.129 (S)	0.79	1.284
2,2',3,6-TeCB	45	45 + 51	C B	3.48	0.142 (S)	0.78	1.145
2,2',3,6'-TeCB	46			0.789	0.161 (S)	0.81	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			5.37	0.142 (S)	0.74	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	76.7	0.122 (S)	0.77	1.258
2,2',4,6-TeCB	50	50 + 53	C	4.60	0.141 (S)	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	158	0.131 (S)	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.127 (S)		
2,3,3',4-TeCB	55		U		0.344 (S)		
2,3,3',4'-TeCB	56		B	35.8	0.329 (S)	0.81	0.905
2,3,3',5-TeCB	57			1.55	0.324 (S)	0.87	0.843
2,3,3',5'-TeCB	58			1.10	0.322 (S)	0.84	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	12.0	0.108 (S)	0.76	1.301
2,3,4,4'-TeCB	60		B	43.3	0.334 (S)	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	339	0.315 (S)	0.77	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			13.6	0.307 (S)	0.79	0.864
2,3,4',6-TeCB	64		B	32.8	0.103 (S)	0.80	1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	182	0.296 (S)	0.77	0.884
2,3',4,5-TeCB	67			4.05	0.285 (S)	0.81	0.855
2,3',4,5'-TeCB	68			6.85	0.312 (S)	0.75	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			7.18	0.300 (S)	0.81	0.822
2,3',5',6-TeCB	73		U		0.115 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	14.5	0.319 (S)	0.78	1.000
3,3',4,5-TeCB	78		U		0.320 (S)		
3,3',4,5'-TeCB	79			6.40	0.264 (S)	0.79	0.970
3,3',5,5'-TeCB	80		K	0.626	0.290 (S)	1.01	0.923
3,4,4',5-TeCB	81			0.614	0.339 (S)	0.81	1.001
2,2',3,3',4-PeCB	82			29.0	0.231 (S)	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	739	0.205 (S)	1.60	0.885
2,2',3,3',6-PeCB	84		B	31.5	0.235 (S)	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	161	0.176 (S)	1.55	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	311	0.184 (S)	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	38.8	0.213 (S)	1.59	1.155
2,2',3,4,6'-PeCB	89			0.697	0.221 (S)	1.61	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	713	0.185 (S)	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	145	0.210 (S)	1.58	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	215	0.207 (S)	1.56	1.121
2,2',3,5,6'-PeCB	94			1.00	0.230 (S)	1.62	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.229	0.0950 (S)	1.93	1.017
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			5.30	0.189 (S)	1.58	1.093
2,2',4,6,6'-PeCB	104		U		0.103 (S)		
2,3,3',4,4'-PeCB	105		B	276	0.961 (S)	1.57	1.001
2,3,3',4,5-PeCB	106		U		0.951 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	17.3	1.01 (S)	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	91.9	0.952 (S)	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	378	0.159 (S)	1.58	0.925
2,3,3',5,5'-PeCB	111			3.57	0.159 (S)	1.48	0.944
2,3,3',5,6-PeCB	112		U		0.163 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			14.4	1.04 (S)	1.64	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	857	1.02 (S)	1.56	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			14.2	0.150 (S)	1.61	0.958
2,3',4,5',6-PeCB	121			1.84	0.164 (S)	1.59	1.199
2',3,3',4,5-PeCB	122			3.45	1.06 (S)	1.47	1.011
2',3,4,4',5-PeCB	123			10.5	1.05 (S)	1.52	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			3.32	1.06 (S)	1.55	1.000
3,3',4,5,5'-PeCB	127			1.30	0.996 (S)	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	219	1.14 (S)	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1690	1.15 (S)	1.27	0.929
2,2',3,3',4,5'-HxCB	130		B	90.1	1.39 (S)	1.24	0.913
2,2',3,3',4,6-HxCB	131			4.04	1.33 (S)	1.42	1.161
2,2',3,3',4,6'-HxCB	132		B	126	1.39 (S)	1.25	1.177
2,2',3,3',5,5'-HxCB	133		B	43.3	1.27 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	30.9	1.29 (S)	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	316	0.138 (S)	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	29.5	0.106 (S)	1.30	1.026
2,2',3,4,4',5-HxCB	137		B	35.8	1.28 (S)	1.23	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	18.4	1.19 (S)	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	62.9	1.23 (S)	1.31	0.903
2,2',3,4,5,6-HxCB	142		U		1.28 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	24.4	0.141 (S)	1.24	1.123
2,2',3,4,6,6'-HxCB	145		U		0.113 (S)		
2,2',3,4',5,5'-HxCB	146		B	399	1.11 (S)	1.26	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	533	1.16 (S)	1.26	1.134
2,2',3,4',5,6'-HxCB	148			7.36	0.144 (S)	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1.28	0.109 (S)	1.37	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.102 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	2020	1.02 (S)	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			2.92	0.103 (S)	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	92.4	1.32 (S)	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	72.3	0.911 (S)	1.24	0.938
2,3,3',4,5,5'-HxCB	159			3.52	0.997 (S)	1.32	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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2,3,3',4,5',6-HxCB	161		U		0.959 (S)		
2,3,3',4',5,5'-HxCB	162			7.97	1.04 (S)	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	36.5	0.989 (S)	1.24	0.921
2,3,3',5,5',6-HxCB	165			5.20	1.07 (S)	1.31	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	48.6	0.921 (S)	1.27	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.04 (S)		
2,2',3,3',4,4',5-HpCB	170		B	123	0.180 (S)	1.06	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	54.9	0.184 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	30.7	0.183 (S)	1.06	0.896
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	87.7	0.181 (S)	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			14.1	0.171 (S)	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			15.4	0.131 (S)	1.09	1.035
2,2',3,3',4',5,6-HpCB	177		B	157	0.178 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	116	0.175 (S)	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	69.4	0.126 (S)	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	365	0.148 (S)	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			1.23	0.177 (S)	0.90	1.157
2,2',3,4,4',5,6'-HpCB	182			3.73	0.170 (S)	1.11	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	191	0.171 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			2.09	0.126 (S)	0.90	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.136 (S)		
2,2',3,4',5,5',6-HpCB	187		B	708	0.162 (S)	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188			4.16	0.125 (S)	1.09	1.000
2,3,3',4,4',5,5'-HpCB	189			5.23	0.157 (S)	0.95	1.000
2,3,3',4,4',5,6-HpCB	190		B	23.3	0.137 (S)	1.02	0.947
2,3,3',4,4',5',6-HpCB	191			6.15	0.139 (S)	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.153 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	46.3	0.147 (S)	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	14.3	0.152 (S)	0.91	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	34.1	0.168 (S)	0.93	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	11.6	0.132 (S)	0.90	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	108	0.172 (S)	0.89	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			23.1	0.133 (S)	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202		B	64.1	0.141 (S)	0.89	1.001
2,2',3,4,4',5,5',6-OcCB	203		B	46.9	0.162 (S)	0.87	0.919
2,2',3,4,4',5,6,6'-OcCB	204			0.237	0.132 (S)	0.92	1.038
2,3,3',4,4',5,5',6-OcCB	205			2.65	0.134 (S)	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		B	38.5	0.215 (S)	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			7.70	0.174 (S)	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	21.6	0.176 (S)	0.83	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			19.2	0.174 (S)	0.72	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-3_Form1A_PB1C_034S9_SJ1249749.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-3
Matrix:	TISSUE	**Sample Size:**	2.30 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:**	77.6
		% Lipid:	2.00

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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-MoCB	1		B	1.24	0.344 (S)	3.12	1.000
3-MoCB	2		B	1.07	0.366 (S)	2.75	0.988
4-MoCB	3		B	1.22	0.378 (S)	3.13	1.000
2,2'-DiCB	4			5.77	1.26 (S)	1.52	1.001
2,3-DiCB	5		U		0.845 (S)		
2,3'-DiCB	6			3.20	0.764 (S)	1.75	1.173
2,4-DiCB	7		K B	0.827	0.782 (S)	2.23	1.157
2,4'-DiCB	8		B	17.0	0.710 (S)	1.55	1.206
2,5-DiCB	9		K	1.09	0.750 (S)	0.89	1.144
2,6-DiCB	10		U		0.733 (S)		
3,3'-DiCB	11		B	35.9	0.790 (S)	1.55	0.969
3,4-DiCB	12	12 + 13	C U		0.799 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.764 (S)		
4,4'-DiCB	15		B	3.16	0.782 (S)	1.73	1.001
2,2',3-TriCB	16		B	11.7	0.635 (S)	1.04	1.165
2,2',4-TriCB	17		B	11.2	0.554 (S)	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	43.8	0.469 (S)	1.07	1.111
2,2',6-TriCB	19			3.68	0.639 (S)	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	313	0.612 (S)	1.05	0.847
2,3,4-TriCB	21	21 + 33	C B	44.2	0.608 (S)	1.08	0.857
2,3,4'-TriCB	22		B	52.7	0.666 (S)	1.03	0.872
2,3,5-TriCB	23		U		0.657 (S)		
2,3,6-TriCB	24			0.750	0.437 (S)	0.97	1.157
2,3',4-TriCB	25			14.7	0.554 (S)	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	35.2	0.630 (S)	1.03	1.299
2,3',6-TriCB	27			4.45	0.388 (S)	1.02	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	185	0.581 (S)	1.06	0.836
2,4',6-TriCB	32		B	12.1	0.599 (S)	1.07	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.644 (S)		
3,3',4-TriCB	35		U		0.648 (S)		
3,3',5-TriCB	36		K	0.670	0.586 (S)	0.70	0.931
3,4,4'-TriCB	37		B	16.5	0.652 (S)	1.03	1.001
3,4,5-TriCB	38		U		0.604 (S)		
3,4',5-TriCB	39			1.97	0.604 (S)	0.97	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	108	0.621 (S)	0.79	1.336
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	102	0.648 (S)	0.79	1.311
2,2',3,5-TeCB	43			7.73	0.706 (S)	0.73	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	626	0.577 (S)	0.79	1.284
2,2',3,6-TeCB	45	45 + 51	C B	15.6	0.635 (S)	0.78	1.145
2,2',3,6'-TeCB	46			3.52	0.719 (S)	0.81	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			24.0	0.635 (S)	0.74	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	343	0.545 (S)	0.77	1.258
2,2',4,6-TeCB	50	50 + 53	C	20.6	0.630 (S)	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	706	0.586 (S)	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.567 (S)		
2,3,3',4-TeCB	55		U		1.54 (S)		
2,3,3',4'-TeCB	56		B	160	1.47 (S)	0.81	0.905
2,3,3',5-TeCB	57			6.93	1.45 (S)	0.87	0.843
2,3,3',5'-TeCB	58			4.91	1.44 (S)	0.84	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	53.6	0.482 (S)	0.76	1.301
2,3,4,4'-TeCB	60		B	193	1.50 (S)	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	1510	1.41 (S)	0.77	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			60.8	1.37 (S)	0.79	0.864
2,3,4',6-TeCB	64		B	147	0.460 (S)	0.80	1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	814	1.33 (S)	0.77	0.884
2,3',4,5-TeCB	67			18.1	1.27 (S)	0.81	0.855
2,3',4,5'-TeCB	68			30.6	1.40 (S)	0.75	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			32.0	1.34 (S)	0.81	0.822
2,3',5',6-TeCB	73		U		0.514 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	64.8	1.42 (S)	0.78	1.000
3,3',4,5-TeCB	78		U		1.43 (S)		
3,3',4,5'-TeCB	79			28.6	1.18 (S)	0.79	0.970
3,3',5,5'-TeCB	80		K	2.80	1.30 (S)	1.01	0.923
3,4,4',5-TeCB	81			2.74	1.51 (S)	0.81	1.001
2,2',3,3',4-PeCB	82			130	1.03 (S)	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	3300	0.917 (S)	1.60	0.885
2,2',3,3',6-PeCB	84		B	141	1.05 (S)	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	719	0.786 (S)	1.55	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1390	0.822 (S)	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	174	0.952 (S)	1.59	1.155
2,2',3,4,6'-PeCB	89			3.12	0.988 (S)	1.61	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	3190	0.827 (S)	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	648	0.935 (S)	1.58	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	961	0.926 (S)	1.56	1.121
2,2',3,5,6'-PeCB	94			4.47	1.02 (S)	1.62	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	1.02	0.425 (S)	1.93	1.017
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			23.7	0.845 (S)	1.58	1.093
2,2',4,6,6'-PeCB	104		U		0.460 (S)		
2,3,3',4,4'-PeCB	105		B	1240	4.29 (S)	1.57	1.001
2,3,3',4,5-PeCB	106		U		4.25 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	77.3	4.51 (S)	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	410	4.25 (S)	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1690	0.710 (S)	1.58	0.925
2,3,3',5,5'-PeCB	111			15.9	0.710 (S)	1.48	0.944
2,3,3',5,6-PeCB	112		U		0.728 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			64.4	4.65 (S)	1.64	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	3830	4.56 (S)	1.56	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			63.5	0.670 (S)	1.61	0.958
2,3',4,5',6-PeCB	121			8.22	0.733 (S)	1.59	1.199
2',3,3',4,5-PeCB	122			15.4	4.74 (S)	1.47	1.011
2',3,4,4',5-PeCB	123			46.9	4.69 (S)	1.52	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			14.9	4.74 (S)	1.55	1.000
3,3',4,5,5'-PeCB	127			5.81	4.45 (S)	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	979	5.09 (S)	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	7550	5.14 (S)	1.27	0.929
2,2',3,3',4,5'-HxCB	130		B	402	6.21 (S)	1.24	0.913
2,2',3,3',4,6-HxCB	131			18.1	5.95 (S)	1.42	1.161
2,2',3,3',4,6'-HxCB	132		B	563	6.21 (S)	1.25	1.177
2,2',3,3',5,5'-HxCB	133		B	193	5.67 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	138	5.77 (S)	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1420	0.617 (S)	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	132	0.474 (S)	1.30	1.026
2,2',3,4,4',5-HxCB	137		B	160	5.71 (S)	1.23	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	82.2	5.31 (S)	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	281	5.49 (S)	1.31	0.903
2,2',3,4,5,6-HxCB	142		U		5.71 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	109	0.630 (S)	1.24	1.123
2,2',3,4,6,6'-HxCB	145		U		0.505 (S)		
2,2',3,4',5,5'-HxCB	146		B	1780	4.96 (S)	1.26	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2390	5.18 (S)	1.26	1.134
2,2',3,4',5,6'-HxCB	148			32.8	0.644 (S)	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			5.71	0.487 (S)	1.37	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.456 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	8990	4.56 (S)	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			13.1	0.460 (S)	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	413	5.90 (S)	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	323	4.07 (S)	1.24	0.938
2,3,3',4,5,5'-HxCB	159			15.8	4.45 (S)	1.32	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		4.28 (S)		
2,3,3',4',5,5'-HxCB	162			35.6	4.65 (S)	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	163	4.42 (S)	1.24	0.921
2,3,3',5,5',6-HxCB	165			23.2	4.78 (S)	1.31	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	217	4.11 (S)	1.27	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.65 (S)		
2,2',3,3',4,4',5-HpCB	170		B	549	0.805 (S)	1.06	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	246	0.822 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	137	0.818 (S)	1.06	0.896
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	392	0.809 (S)	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			63.0	0.764 (S)	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			68.8	0.586 (S)	1.09	1.035
2,2',3,3',4',5,6-HpCB	177		B	701	0.795 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	518	0.782 (S)	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	310	0.563 (S)	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1630	0.661 (S)	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			5.49	0.790 (S)	0.90	1.157
2,2',3,4,4',5,6'-HpCB	182			16.6	0.759 (S)	1.11	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	854	0.764 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			9.35	0.563 (S)	0.90	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.608 (S)		
2,2',3,4',5,5',6-HpCB	187		B	3160	0.724 (S)	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188			18.6	0.558 (S)	1.09	1.000
2,3,3',4,4',5,5'-HpCB	189			23.4	0.701 (S)	0.95	1.000
2,3,3',4,4',5,6-HpCB	190		B	104	0.612 (S)	1.02	0.947
2,3,3',4,4',5',6-HpCB	191			27.5	0.621 (S)	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.684 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	207	0.657 (S)	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	63.9	0.679 (S)	0.91	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	152	0.750 (S)	0.93	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	51.8	0.590 (S)	0.90	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	482	0.768 (S)	0.89	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			103	0.595 (S)	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202		B	287	0.630 (S)	0.89	1.001
2,2',3,4,4',5,5',6-OcCB	203		B	209	0.724 (S)	0.87	0.919
2,2',3,4,4',5,6,6'-OcCB	204			1.06	0.590 (S)	0.92	1.038
2,3,3',4,4',5,5',6-OcCB	205			11.8	0.599 (S)	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		B	172	0.961 (S)	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			34.4	0.777 (S)	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	96.1	0.786 (S)	0.83	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			85.8	0.777 (S)	0.72	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-3_Form1A_PB1C_034S9_SJ1249749_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-3
Matrix:	TISSUE	**Sample Size:**	0.205 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:**	77.6
		% Lipid:	2.00

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	13.9	3.86 (S)	3.12	1.000
3-MoCB	2		B	12.0	4.11 (S)	2.75	0.988
4-MoCB	3		B	13.7	4.25 (S)	3.13	1.000
2,2'-DiCB	4			64.8	14.1 (S)	1.52	1.001
2,3-DiCB	5		U		9.49 (S)		
2,3'-DiCB	6			35.9	8.58 (S)	1.75	1.173
2,4-DiCB	7		K B	9.29	8.78 (S)	2.23	1.157
2,4'-DiCB	8		B	191	7.98 (S)	1.55	1.206
2,5-DiCB	9		K	12.2	8.43 (S)	0.89	1.144
2,6-DiCB	10		U		8.23 (S)		
3,3'-DiCB	11		B	403	8.88 (S)	1.55	0.969
3,4-DiCB	12	12 + 13	C U		8.98 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		8.58 (S)		
4,4'-DiCB	15		B	35.5	8.78 (S)	1.73	1.001
2,2',3-TriCB	16		B	132	7.13 (S)	1.04	1.165
2,2',4-TriCB	17		B	126	6.22 (S)	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	492	5.27 (S)	1.07	1.111
2,2',6-TriCB	19			41.3	7.18 (S)	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	3520	6.88 (S)	1.05	0.847
2,3,4-TriCB	21	21 + 33	C B	497	6.83 (S)	1.08	0.857
2,3,4'-TriCB	22		B	592	7.48 (S)	1.03	0.872
2,3,5-TriCB	23		U		7.38 (S)		
2,3,6-TriCB	24			8.43	4.91 (S)	0.97	1.157
2,3',4-TriCB	25			165	6.22 (S)	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	395	7.08 (S)	1.03	1.299
2,3',6-TriCB	27			50.0	4.36 (S)	1.02	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	2080	6.53 (S)	1.06	0.836
2,4',6-TriCB	32		B	136	6.73 (S)	1.07	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		7.23 (S)		
3,3',4-TriCB	35		U		7.28 (S)		
3,3',5-TriCB	36		K	7.53	6.58 (S)	0.70	0.931
3,4,4'-TriCB	37		B	185	7.33 (S)	1.03	1.001
3,4,5-TriCB	38		U		6.78 (S)		
3,4',5-TriCB	39			22.1	6.78 (S)	0.97	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1210	6.98 (S)	0.79	1.336
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1150	7.28 (S)	0.79	1.311
2,2',3,5-TeCB	43			86.8	7.93 (S)	0.73	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	7030	6.48 (S)	0.79	1.284
2,2',3,6-TeCB	45	45 + 51	C B	175	7.13 (S)	0.78	1.145
2,2',3,6'-TeCB	46			39.6	8.08 (S)	0.81	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			270	7.13 (S)	0.74	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	3850	6.12 (S)	0.77	1.258
2,2',4,6-TeCB	50	50 + 53	C	231	7.08 (S)	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	7930	6.58 (S)	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		6.37 (S)		
2,3,3',4-TeCB	55		U		17.3 (S)		
2,3,3',4'-TeCB	56		B	1800	16.5 (S)	0.81	0.905
2,3,3',5-TeCB	57			77.8	16.3 (S)	0.87	0.843
2,3,3',5'-TeCB	58			55.2	16.2 (S)	0.84	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	602	5.42 (S)	0.76	1.301
2,3,4,4'-TeCB	60		B	2170	16.8 (S)	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	17000	15.8 (S)	0.77	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			683	15.4 (S)	0.79	0.864
2,3,4',6-TeCB	64		B	1650	5.17 (S)	0.80	1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	9140	14.9 (S)	0.77	0.884
2,3',4,5-TeCB	67			203	14.3 (S)	0.81	0.855
2,3',4,5'-TeCB	68			344	15.7 (S)	0.75	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			360	15.1 (S)	0.81	0.822
2,3',5',6-TeCB	73		U		5.77 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	728	16.0 (S)	0.78	1.000
3,3',4,5-TeCB	78		U		16.1 (S)		
3,3',4,5'-TeCB	79			321	13.3 (S)	0.79	0.970
3,3',5,5'-TeCB	80		K	31.4	14.6 (S)	1.01	0.923
3,4,4',5-TeCB	81			30.8	17.0 (S)	0.81	1.001
2,2',3,3',4-PeCB	82			1460	11.6 (S)	1.57	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	37100	10.3 (S)	1.60	0.885
2,2',3,3',6-PeCB	84		B	1580	11.8 (S)	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	8080	8.83 (S)	1.55	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	15600	9.24 (S)	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	1950	10.7 (S)	1.59	1.155
2,2',3,4,6'-PeCB	89			35.0	11.1 (S)	1.61	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	35800	9.29 (S)	1.54	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	7280	10.5 (S)	1.58	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	10800	10.4 (S)	1.56	1.121
2,2',3,5,6'-PeCB	94			50.2	11.5 (S)	1.62	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	11.5	4.77 (S)	1.93	1.017
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			266	9.49 (S)	1.58	1.093
2,2',4,6,6'-PeCB	104		U		5.17 (S)		
2,3,3',4,4'-PeCB	105		B	13900	48.2 (S)	1.57	1.001
2,3,3',4,5-PeCB	106		U		47.7 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	868	50.7 (S)	1.56	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	4610	47.8 (S)	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	19000	7.98 (S)	1.58	0.925
2,3,3',5,5'-PeCB	111			179	7.98 (S)	1.48	0.944
2,3,3',5,6-PeCB	112		U		8.18 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			723	52.2 (S)	1.64	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	43000	51.2 (S)	1.56	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			713	7.53 (S)	1.61	0.958
2,3',4,5',6-PeCB	121			92.4	8.23 (S)	1.59	1.199
2',3,3',4,5-PeCB	122			173	53.2 (S)	1.47	1.011
2',3,4,4',5-PeCB	123			527	52.7 (S)	1.52	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			167	53.2 (S)	1.55	1.000
3,3',4,5,5'-PeCB	127			65.3	50.0 (S)	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	11000	57.2 (S)	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	84800	57.7 (S)	1.27	0.929
2,2',3,3',4,5'-HxCB	130		B	4520	69.8 (S)	1.24	0.913
2,2',3,3',4,6-HxCB	131			203	66.8 (S)	1.42	1.161
2,2',3,3',4,6'-HxCB	132		B	6320	69.8 (S)	1.25	1.177
2,2',3,3',5,5'-HxCB	133		B	2170	63.7 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	1550	64.8 (S)	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	15900	6.93 (S)	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	1480	5.32 (S)	1.30	1.026
2,2',3,4,4',5-HxCB	137		B	1800	64.2 (S)	1.23	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	924	59.7 (S)	1.30	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	3160	61.7 (S)	1.31	0.903
2,2',3,4,5,6-HxCB	142		U		64.2 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	1220	7.08 (S)	1.24	1.123
2,2',3,4,6,6'-HxCB	145		U		5.67 (S)		
2,2',3,4',5,5'-HxCB	146		B	20000	55.7 (S)	1.26	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	26800	58.2 (S)	1.26	1.134
2,2',3,4',5,6'-HxCB	148			369	7.23 (S)	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			64.2	5.47 (S)	1.37	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		5.12 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	101000	51.2 (S)	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			147	5.17 (S)	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	4640	66.3 (S)	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	3630	45.7 (S)	1.24	0.938
2,3,3',4,5,5'-HxCB	159			177	50.0 (S)	1.32	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		48.1 (S)		
2,3,3',4',5,5'-HxCB	162			400	52.2 (S)	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	1830	49.6 (S)	1.24	0.921
2,3,3',5,5',6-HxCB	165			261	53.7 (S)	1.31	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	2440	46.2 (S)	1.27	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		52.2 (S)		
2,2',3,3',4,4',5-HpCB	170		B	6170	9.04 (S)	1.06	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	2760	9.24 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	1540	9.19 (S)	1.06	0.896
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	4400	9.09 (S)	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			708	8.58 (S)	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			773	6.58 (S)	1.09	1.035
2,2',3,3',4',5,6-HpCB	177		B	7880	8.93 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	5820	8.78 (S)	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	3480	6.32 (S)	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	18300	7.43 (S)	1.03	0.910
2,2',3,4,4',5,6-HpCB	181			61.7	8.88 (S)	0.90	1.157
2,2',3,4,4',5,6'-HpCB	182			187	8.53 (S)	1.11	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	9590	8.58 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			105	6.32 (S)	0.90	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		6.83 (S)		
2,2',3,4',5,5',6-HpCB	187		B	35500	8.13 (S)	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188			209	6.27 (S)	1.09	1.000
2,3,3',4,4',5,5'-HpCB	189			263	7.88 (S)	0.95	1.000
2,3,3',4,4',5,6-HpCB	190		B	1170	6.88 (S)	1.02	0.947
2,3,3',4,4',5',6-HpCB	191			309	6.98 (S)	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		7.68 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	2320	7.38 (S)	0.88	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	718	7.63 (S)	0.91	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	1710	8.43 (S)	0.93	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	582	6.63 (S)	0.90	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	5420	8.63 (S)	0.89	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			1160	6.68 (S)	0.90	1.023
2,2',3,3',5,5',6,6'-OcCB	202		B	3220	7.08 (S)	0.89	1.001
2,2',3,4,4',5,5',6-OcCB	203		B	2350	8.13 (S)	0.87	0.919
2,2',3,4,4',5,6,6'-OcCB	204			11.9	6.63 (S)	0.92	1.038
2,3,3',4,4',5,5',6-OcCB	205			133	6.73 (S)	0.89	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		B	1930	10.8 (S)	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			387	8.73 (S)	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	1080	8.83 (S)	0.83	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			964	8.73 (S)	0.72	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

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Report Filename: 1668_PCB1668_PCBTF_L15870-3_Form1A_PB1C_034S9_SJ1249749_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10M
Sample Collection:
N/A

Form 2

PCB CONGENER ANALYSIS REPORT

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

Contract No.:	4574	**Project No.**	L13452
Matrix:	TISSUE	**Lab Sample I.D.:**	L15870-3
Sample Receipt Date:	14-Dec-2010	**Sample Size:**	10.3 g (wet)
Extraction Date:	06-Jan-2011	**Initial Calibration Date:**	24-Jan-2011
Analysis Date:	26-Jan-2011 **Time:** 04:13:01	**Instrument ID:**	HR GC/MS
Extract Volume (uL):	20	**GC Column ID:**	SPB OCTYL
Injection Volume (uL):	1.0	**Sample Data Filename:**	**PB1C_034 S: 9**
Dilution Factor:	N/A	**Blank Data Filename:**	PB1C_034 S: 5
Concentration Units:	pg absolute	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
		% Moisture:	77.6
		% Lipid:	2.00

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.

LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG [2]	SPIKE CONC.	CONC. FOUND	R(%) [3]	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	1010	50.5	3.19	0.720
13C12-4-MoCB	3L			2000	1150	57.7	3.18	0.859
13C12-2,2'-DiCB	4L			2000	1170	58.7	1.55	0.875
13C12-4,4'-DiCB	15L			2000	1440	72.1	1.56	1.252
13C12-2,2',6-TriCB	19L			2000	1400	70.1	1.04	1.073
13C12-3,4,4'-TriCB	37L			2000	1830	91.7	1.05	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1450	72.7	0.79	0.812
13C12-3,3',4,4'-TeCB	77L			2000	2110	106	0.79	1.397
13C12-3,4,4',5-TeCB	81L			2000	2060	103	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1780	88.8	1.59	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	2320	116	1.57	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	2120	106	1.58	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	2210	110	1.55	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	2170	109	1.57	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	2390	119	1.57	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1770	88.7	1.23	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	4420	110	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	2190	110	1.26	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	2300	115	1.27	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	2290	114	1.06	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	2310	116	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	2050	103	1.04	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	2270	113	1.06	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	2610	130	0.90	0.817
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	2210	111	0.90	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2260	113	0.78	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	2220	111	0.78	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2260	113	1.22	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1630	81.6	1.06	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	2130	107	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	2310	115	1.04	1.012

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

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

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Report Filename: 1668_PCB1668_PCBTF_L15870-3_Form2_PB1C_034S9_SJ1249749.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-4
Matrix:	TISSUE	**Sample Size:**	10.2 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	78.9
		% Lipid:	1.23

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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-MoCB	1		B	0.248	0.0745 (S)	2.72	1.001
3-MoCB	2		B	0.241	0.0794 (S)	2.67	0.988
4-MoCB	3		B	0.269	0.0823 (S)	3.51	1.001
2,2'-DiCB	4			0.869	0.238 (S)	1.65	1.001
2,3-DiCB	5		U		0.149 (S)		
2,3'-DiCB	6			0.482	0.135 (S)	1.70	1.173
2,4-DiCB	7		U		0.137 (S)		
2,4'-DiCB	8		B	2.24	0.125 (S)	1.61	1.206
2,5-DiCB	9		U		0.132 (S)		
2,6-DiCB	10		U		0.129 (S)		
3,3'-DiCB	11		B	5.70	0.139 (S)	1.60	0.968
3,4-DiCB	12	12 + 13	C U		0.140 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.134 (S)		
4,4'-DiCB	15		B	0.560	0.133 (S)	1.35	1.000
2,2',3-TriCB	16		B	1.76	0.132 (S)	1.11	1.165
2,2',4-TriCB	17		B	1.62	0.115 (S)	1.07	1.137
2,2',5-TriCB	18	18 + 30	C B	5.91	0.0973 (S)	1.06	1.112
2,2',6-TriCB	19		K	0.535	0.139 (S)	1.23	1.001
2,3,3'-TriCB	20	20 + 28	C B	39.4	0.114 (S)	1.06	0.848
2,3,4-TriCB	21	21 + 33	C B	5.70	0.113 (S)	1.10	0.857
2,3,4'-TriCB	22		B	6.59	0.124 (S)	1.05	0.873
2,3,5-TriCB	23		U		0.122 (S)		
2,3,6-TriCB	24			0.098	0.0909 (S)	1.00	1.158
2,3',4-TriCB	25			1.64	0.103 (S)	1.10	0.825
2,3',5-TriCB	26	26 + 29	C B	4.26	0.117 (S)	1.09	1.300
2,3',6-TriCB	27			0.582	0.0806 (S)	1.19	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	22.4	0.108 (S)	1.05	0.836
2,4',6-TriCB	32		B	1.50	0.111 (S)	0.99	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.119 (S)		
3,3',4-TriCB	35		U		0.120 (S)		
3,3',5-TriCB	36		U		0.109 (S)		
3,4,4'-TriCB	37		B	2.03	0.117 (S)	1.07	1.001
3,4,5-TriCB	38		U		0.112 (S)		
3,4',5-TriCB	39		K	0.251	0.112 (S)	1.31	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	13.9	0.106 (S)	0.78	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	12.5	0.110 (S)	0.81	1.309
2,2',3,5-TeCB	43			1.13	0.120 (S)	0.72	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	82.4	0.0980 (S)	0.79	1.283
2,2',3,6-TeCB	45	45 + 51	C B	2.07	0.108 (S)	0.74	1.145
2,2',3,6'-TeCB	46			0.468	0.122 (S)	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			2.85	0.108 (S)	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	36.1	0.0928 (S)	0.77	1.257
2,2',4,6-TeCB	50	50 + 53	C	2.41	0.107 (S)	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	85.3	0.0991 (S)	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0944 (S)		
2,3,3',4-TeCB	55		U		0.401 (S)		
2,3,3',4'-TeCB	56		B	19.4	0.384 (S)	0.78	0.905
2,3,3',5-TeCB	57			0.979	0.378 (S)	0.76	0.843
2,3,3',5'-TeCB	58			0.821	0.376 (S)	0.86	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	7.03	0.0822 (S)	0.79	1.300
2,3,4,4'-TeCB	60		B	26.4	0.390 (S)	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	165	0.368 (S)	0.79	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			8.09	0.358 (S)	0.77	0.864
2,3,4',6-TeCB	64		B	19.4	0.0779 (S)	0.79	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	101	0.345 (S)	0.79	0.884
2,3',4,5-TeCB	67			2.16	0.333 (S)	0.81	0.855
2,3',4,5'-TeCB	68			4.07	0.364 (S)	0.76	0.831
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			4.40	0.350 (S)	0.81	0.822
2,3',5',6-TeCB	73		U		0.0875 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	8.90	0.373 (S)	0.78	1.000
3,3',4,5-TeCB	78		U		0.373 (S)		
3,3',4,5'-TeCB	79			3.66	0.308 (S)	0.74	0.970
3,3',5,5'-TeCB	80			0.345	0.338 (S)	0.80	0.923
3,4,4',5-TeCB	81			0.501	0.402 (S)	0.85	1.001
2,2',3,3',4-PeCB	82			17.5	0.233 (S)	1.53	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	334	0.207 (S)	1.60	0.885
2,2',3,3',6-PeCB	84		B	20.2	0.237 (S)	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	109	0.178 (S)	1.54	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	186	0.185 (S)	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	26.9	0.214 (S)	1.57	1.155
2,2',3,4,6'-PeCB	89			0.558	0.223 (S)	1.52	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	496	0.187 (S)	1.58	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	101	0.212 (S)	1.57	0.852
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	130	0.209 (S)	1.56	1.122
2,2',3,5,6'-PeCB	94			0.796	0.232 (S)	1.40	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.103	0.0985 (S)	1.90	1.017
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			3.60	0.190 (S)	1.57	1.093
2,2',4,6,6'-PeCB	104		U		0.105 (S)		
2,3,3',4,4'-PeCB	105		B	189	0.647 (S)	1.55	1.000
2,3,3',4,5-PeCB	106		U		0.658 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	13.1	0.699 (S)	1.55	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	63.2	0.658 (S)	1.60	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	256	0.161 (S)	1.55	0.925
2,3,3',5,5'-PeCB	111			2.75	0.160 (S)	1.60	0.944
2,3,3',5,6-PeCB	112		U		0.164 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			9.40	0.721 (S)	1.55	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	521	0.708 (S)	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			10.4	0.152 (S)	1.60	0.958
2,3',4,5',6-PeCB	121			1.21	0.166 (S)	1.55	1.199
2',3,3',4,5-PeCB	122			2.49	0.736 (S)	1.45	1.010
2',3,4,4',5-PeCB	123			7.62	0.747 (S)	1.52	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			2.99	0.736 (S)	1.59	1.000
3,3',4,5,5'-PeCB	127			1.24	0.689 (S)	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	182	0.297 (S)	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1390	0.299 (S)	1.27	0.929
2,2',3,3',4,5'-HxCB	130		B	78.2	0.360 (S)	1.26	0.913
2,2',3,3',4,6-HxCB	131			3.23	0.345 (S)	1.17	1.161
2,2',3,3',4,6'-HxCB	132		B	107	0.361 (S)	1.26	1.177
2,2',3,3',5,5'-HxCB	133		B	40.0	0.330 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	24.6	0.336 (S)	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	260	0.138 (S)	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	21.0	0.106 (S)	1.25	1.026
2,2',3,4,4',5-HxCB	137		B	28.2	0.333 (S)	1.24	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	15.7	0.308 (S)	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	57.2	0.320 (S)	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		0.333 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	19.1	0.141 (S)	1.28	1.123
2,2',3,4,6,6'-HxCB	145		U		0.113 (S)		
2,2',3,4',5,5'-HxCB	146		B	359	0.288 (S)	1.26	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	438	0.303 (S)	1.26	1.135
2,2',3,4',5,6'-HxCB	148			5.70	0.144 (S)	1.26	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1.05	0.109 (S)	1.31	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.102 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	1820	0.264 (S)	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			2.53	0.103 (S)	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	81.6	0.343 (S)	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	62.0	0.237 (S)	1.25	0.938
2,3,3',4,5,5'-HxCB	159			4.11	0.259 (S)	1.26	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		0.249 (S)		
2,3,3',4',5,5'-HxCB	162			6.59	0.271 (S)	1.21	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	31.0	0.257 (S)	1.29	0.921
2,3,3',5,5',6-HxCB	165			4.90	0.278 (S)	1.23	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	40.2	0.240 (S)	1.30	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.21 (S)		
2,2',3,3',4,4',5-HpCB	170		B	144	0.181 (S)	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	54.3	0.184 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	35.3	0.184 (S)	1.02	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	87.3	0.181 (S)	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			13.2	0.172 (S)	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			14.4	0.132 (S)	1.02	1.035
2,2',3,3',4',5,6-HpCB	177		B	157	0.178 (S)	1.03	1.146
2,2',3,3',5,5',6-HpCB	178		B	118	0.175 (S)	1.03	1.086
2,2',3,3',5,6,6'-HpCB	179		B	63.5	0.127 (S)	1.01	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	428	0.148 (S)	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			1.53	0.178 (S)	0.95	1.157
2,2',3,4,4',5,6'-HpCB	182			4.16	0.170 (S)	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	192	0.172 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			2.16	0.126 (S)	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.137 (S)		
2,2',3,4',5,5',6-HpCB	187		B	733	0.162 (S)	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			3.76	0.126 (S)	0.97	1.001
2,3,3',4,4',5,5'-HpCB	189			6.01	0.143 (S)	1.10	1.000
2,3,3',4,4',5,6-HpCB	190		B	26.0	0.137 (S)	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			5.94	0.140 (S)	1.09	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.153 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	63.4	0.141 (S)	0.92	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	18.5	0.146 (S)	0.88	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	44.5	0.153 (S)	0.85	0.915
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	13.6	0.121 (S)	0.88	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	138	0.157 (S)	0.90	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			24.9	0.121 (S)	0.92	1.022
2,2',3,3',5,5',6,6'-OcCB	202		B	75.8	0.132 (S)	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203		B	60.7	0.148 (S)	0.87	0.919
2,2',3,4,4',5,6,6'-OcCB	204			0.283	0.120 (S)	0.83	1.038
2,3,3',4,4',5,5',6-OcCB	205			3.32	0.125 (S)	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		B	47.8	0.199 (S)	0.79	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			9.16	0.160 (S)	0.76	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	25.8	0.161 (S)	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			21.4	0.163 (S)	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-4_Form1A_PB1C_034S10_SJ1249751.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	L15870-4
Matrix:	TISSUE	**Sample Size:**	2.15 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:**	78.9
		% Lipid:	1.23

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	1.18	0.354 (S)	2.72	1.001
3-MoCB	2		B	1.14	0.377 (S)	2.67	0.988
4-MoCB	3		B	1.28	0.391 (S)	3.51	1.001
2,2'-DiCB	4			4.13	1.13 (S)	1.65	1.001
2,3-DiCB	5		U		0.709 (S)		
2,3'-DiCB	6			2.29	0.639 (S)	1.70	1.173
2,4-DiCB	7		U		0.651 (S)		
2,4'-DiCB	8		B	10.6	0.593 (S)	1.61	1.206
2,5-DiCB	9		U		0.628 (S)		
2,6-DiCB	10		U		0.610 (S)		
3,3'-DiCB	11		B	27.1	0.662 (S)	1.60	0.968
3,4-DiCB	12	12 + 13	C U		0.662 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.633 (S)		
4,4'-DiCB	15		B	2.66	0.633 (S)	1.35	1.000
2,2',3-TriCB	16		B	8.37	0.628 (S)	1.11	1.165
2,2',4-TriCB	17		B	7.67	0.546 (S)	1.07	1.137
2,2',5-TriCB	18	18 + 30	C B	28.1	0.462 (S)	1.06	1.112
2,2',6-TriCB	19		K	2.54	0.662 (S)	1.23	1.001
2,3,3'-TriCB	20	20 + 28	C B	187	0.541 (S)	1.06	0.848
2,3,4-TriCB	21	21 + 33	C B	27.1	0.536 (S)	1.10	0.857
2,3,4'-TriCB	22		B	31.3	0.587 (S)	1.05	0.873
2,3,5-TriCB	23		U		0.579 (S)		
2,3,6-TriCB	24			0.465	0.431 (S)	1.00	1.158
2,3',4-TriCB	25			7.79	0.489 (S)	1.10	0.825
2,3',5-TriCB	26	26 + 29	C B	20.2	0.556 (S)	1.09	1.300
2,3',6-TriCB	27			2.76	0.382 (S)	1.19	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	106	0.513 (S)	1.05	0.836
2,4',6-TriCB	32		B	7.15	0.527 (S)	0.99	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.565 (S)		
3,3',4-TriCB	35		U		0.570 (S)		
3,3',5-TriCB	36		U		0.517 (S)		
3,4,4'-TriCB	37		B	9.65	0.556 (S)	1.07	1.001
3,4,5-TriCB	38		U		0.532 (S)		
3,4',5-TriCB	39		K	1.19	0.532 (S)	1.31	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	66.2	0.503 (S)	0.78	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	59.3	0.522 (S)	0.81	1.309
2,2',3,5-TeCB	43			5.36	0.570 (S)	0.72	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	391	0.465 (S)	0.79	1.283
2,2',3,6-TeCB	45	45 + 51	C B	9.82	0.513 (S)	0.74	1.145
2,2',3,6'-TeCB	46			2.22	0.579 (S)	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			13.5	0.513 (S)	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	171	0.440 (S)	0.77	1.257
2,2',4,6-TeCB	50	50 + 53	C	11.4	0.508 (S)	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	405	0.470 (S)	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.448 (S)		
2,3,3',4-TeCB	55		U		1.91 (S)		
2,3,3',4'-TeCB	56		B	91.8	1.82 (S)	0.78	0.905
2,3,3',5-TeCB	57			4.65	1.80 (S)	0.76	0.843
2,3,3',5'-TeCB	58			3.90	1.78 (S)	0.86	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	33.4	0.390 (S)	0.79	1.300
2,3,4,4'-TeCB	60		B	126	1.85 (S)	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	785	1.75 (S)	0.79	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			38.4	1.70 (S)	0.77	0.864
2,3,4',6-TeCB	64		B	91.8	0.370 (S)	0.79	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	479	1.64 (S)	0.79	0.884
2,3',4,5-TeCB	67			10.2	1.58 (S)	0.81	0.855
2,3',4,5'-TeCB	68			19.3	1.73 (S)	0.76	0.831
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			20.9	1.66 (S)	0.81	0.822
2,3',5',6-TeCB	73		U		0.416 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	42.2	1.77 (S)	0.78	1.000
3,3',4,5-TeCB	78		U		1.77 (S)		
3,3',4,5'-TeCB	79			17.4	1.46 (S)	0.74	0.970
3,3',5,5'-TeCB	80			1.64	1.60 (S)	0.80	0.923
3,4,4',5-TeCB	81			2.38	1.91 (S)	0.85	1.001
2,2',3,3',4-PeCB	82			83.1	1.10 (S)	1.53	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	1590	0.982 (S)	1.60	0.885
2,2',3,3',6-PeCB	84		B	95.9	1.13 (S)	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	517	0.843 (S)	1.54	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	883	0.877 (S)	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	128	1.02 (S)	1.57	1.155
2,2',3,4,6'-PeCB	89			2.65	1.06 (S)	1.52	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	2350	0.889 (S)	1.58	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	479	1.01 (S)	1.57	0.852
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	616	0.994 (S)	1.56	1.122
2,2',3,5,6'-PeCB	94			3.78	1.10 (S)	1.40	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.489	0.468 (S)	1.90	1.017
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			17.1	0.901 (S)	1.57	1.093
2,2',4,6,6'-PeCB	104		U		0.499 (S)		
2,3,3',4,4'-PeCB	105		B	895	3.07 (S)	1.55	1.000
2,3,3',4,5-PeCB	106		U		3.12 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	62.2	3.32 (S)	1.55	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	300	3.12 (S)	1.60	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1210	0.767 (S)	1.55	0.925
2,3,3',5,5'-PeCB	111			13.1	0.761 (S)	1.60	0.944
2,3,3',5,6-PeCB	112		U		0.779 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			44.6	3.42 (S)	1.55	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	2480	3.36 (S)	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			49.3	0.721 (S)	1.60	0.958
2,3',4,5',6-PeCB	121			5.74	0.790 (S)	1.55	1.199
2',3,3',4,5-PeCB	122			11.8	3.49 (S)	1.45	1.010
2',3,4,4',5-PeCB	123			36.1	3.54 (S)	1.52	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			14.2	3.49 (S)	1.59	1.000
3,3',4,5,5'-PeCB	127			5.87	3.27 (S)	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	866	1.41 (S)	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	6620	1.42 (S)	1.27	0.929
2,2',3,3',4,5'-HxCB	130		B	371	1.71 (S)	1.26	0.913
2,2',3,3',4,6-HxCB	131			15.3	1.64 (S)	1.17	1.161
2,2',3,3',4,6'-HxCB	132		B	508	1.71 (S)	1.26	1.177
2,2',3,3',5,5'-HxCB	133		B	190	1.57 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	117	1.59 (S)	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1230	0.657 (S)	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	100	0.503 (S)	1.25	1.026
2,2',3,4,4',5-HxCB	137		B	134	1.58 (S)	1.24	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	74.4	1.46 (S)	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	271	1.52 (S)	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		1.58 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	90.7	0.668 (S)	1.28	1.123
2,2',3,4,6,6'-HxCB	145		U		0.536 (S)		
2,2',3,4',5,5'-HxCB	146		B	1700	1.37 (S)	1.26	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2080	1.44 (S)	1.26	1.135
2,2',3,4',5,6'-HxCB	148			27.1	0.686 (S)	1.26	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			4.99	0.517 (S)	1.31	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.484 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	8660	1.26 (S)	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			12.0	0.489 (S)	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	388	1.63 (S)	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	294	1.13 (S)	1.25	0.938
2,3,3',4,5,5'-HxCB	159			19.5	1.23 (S)	1.26	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		1.18 (S)		
2,3,3',4',5,5'-HxCB	162			31.3	1.28 (S)	1.21	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	147	1.22 (S)	1.29	0.921
2,3,3',5,5',6-HxCB	165			23.2	1.32 (S)	1.23	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	191	1.14 (S)	1.30	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		5.74 (S)		
2,2',3,3',4,4',5-HpCB	170		B	686	0.860 (S)	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	258	0.872 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	167	0.872 (S)	1.02	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	414	0.860 (S)	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			62.8	0.814 (S)	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			68.6	0.628 (S)	1.02	1.035
2,2',3,3',4',5,6-HpCB	177		B	744	0.843 (S)	1.03	1.146
2,2',3,3',5,5',6-HpCB	178		B	560	0.831 (S)	1.03	1.086
2,2',3,3',5,6,6'-HpCB	179		B	302	0.604 (S)	1.01	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2030	0.703 (S)	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			7.26	0.843 (S)	0.95	1.157
2,2',3,4,4',5,6'-HpCB	182			19.8	0.808 (S)	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	912	0.814 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			10.2	0.599 (S)	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.651 (S)		
2,2',3,4',5,5',6-HpCB	187		B	3480	0.767 (S)	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			17.8	0.599 (S)	0.97	1.001
2,3,3',4,4',5,5'-HpCB	189			28.5	0.680 (S)	1.10	1.000
2,3,3',4,4',5,6-HpCB	190		B	123	0.651 (S)	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			28.2	0.662 (S)	1.09	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.726 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	301	0.668 (S)	0.92	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	87.7	0.692 (S)	0.88	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	211	0.726 (S)	0.85	0.915
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	64.5	0.574 (S)	0.88	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	657	0.744 (S)	0.90	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			118	0.574 (S)	0.92	1.022
2,2',3,3',5,5',6,6'-OcCB	202		B	360	0.628 (S)	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203		B	288	0.703 (S)	0.87	0.919
2,2',3,4,4',5,6,6'-OcCB	204			1.34	0.570 (S)	0.83	1.038
2,3,3',4,4',5,5',6-OcCB	205			15.7	0.593 (S)	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		B	227	0.947 (S)	0.79	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			43.5	0.761 (S)	0.76	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	123	0.767 (S)	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			102	0.773 (S)	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_L15870-4_Form1A_PB1C_034S10_SJ1249751_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

Form 1A

PCB CONGENER ANALYSIS REPORT

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

Contract No.:	4574	**Project No.**	L13452
Matrix:	TISSUE	**Lab Sample I.D.:**	L15870-4
Sample Receipt Date:	14-Dec-2010	**Sample Size:**	0.125 g (lipid)
Extraction Date:	06-Jan-2011	**Initial Calibration Date:**	24-Jan-2011
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**Instrument ID:**	HR GC/MS
Extract Volume (uL):	20	**GC Column ID:**	SPB OCTYL
Injection Volume (uL):	1.0	**Sample Data Filename:**	**PB1C_034 S: 10**
Dilution Factor:	N/A	**Blank Data Filename:**	PB1C_034 S: 5
Concentration Units:	pg/g (lipid weight basis)	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
		% Moisture:	78.9
		% Lipid:	1.23

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	20.3	6.09 (S)	2.72	1.001
3-MoCB	2		B	19.7	6.49 (S)	2.67	0.988
4-MoCB	3		B	22.0	6.72 (S)	3.51	1.001
2,2'-DiCB	4			71.0	19.4 (S)	1.65	1.001
2,3-DiCB	5		U		12.2 (S)		
2,3'-DiCB	6			39.4	11.0 (S)	1.70	1.173
2,4-DiCB	7		U		11.2 (S)		
2,4'-DiCB	8		B	183	10.2 (S)	1.61	1.206
2,5-DiCB	9		U		10.8 (S)		
2,6-DiCB	10		U		10.5 (S)		
3,3'-DiCB	11		B	466	11.4 (S)	1.60	0.968
3,4-DiCB	12	12 + 13	C U		11.4 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		10.9 (S)		
4,4'-DiCB	15		B	45.7	10.9 (S)	1.35	1.000
2,2',3-TriCB	16		B	144	10.8 (S)	1.11	1.165
2,2',4-TriCB	17		B	132	9.39 (S)	1.07	1.137
2,2',5-TriCB	18	18 + 30	C B	483	7.95 (S)	1.06	1.112
2,2',6-TriCB	19		K	43.7	11.4 (S)	1.23	1.001
2,3,3'-TriCB	20	20 + 28	C B	3220	9.31 (S)	1.06	0.848
2,3,4-TriCB	21	21 + 33	C B	466	9.23 (S)	1.10	0.857
2,3,4'-TriCB	22		B	538	10.1 (S)	1.05	0.873
2,3,5-TriCB	23		U		9.96 (S)		
2,3,6-TriCB	24			8.00	7.42 (S)	1.00	1.158
2,3',4-TriCB	25			134	8.41 (S)	1.10	0.825
2,3',5-TriCB	26	26 + 29	C B	348	9.56 (S)	1.09	1.300
2,3',6-TriCB	27			47.5	6.58 (S)	1.19	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	1830	8.82 (S)	1.05	0.836
2,4',6-TriCB	32		B	123	9.07 (S)	0.99	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		9.72 (S)		
3,3',4-TriCB	35		U		9.80 (S)		
3,3',5-TriCB	36		U		8.90 (S)		
3,4,4'-TriCB	37		B	166	9.56 (S)	1.07	1.001
3,4,5-TriCB	38		U		9.15 (S)		
3,4',5-TriCB	39		K	20.5	9.15 (S)	1.31	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1140	8.66 (S)	0.78	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1020	8.98 (S)	0.81	1.309
2,2',3,5-TeCB	43			92.3	9.80 (S)	0.72	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	6730	8.00 (S)	0.79	1.283
2,2',3,6-TeCB	45	45 + 51	C B	169	8.82 (S)	0.74	1.145
2,2',3,6'-TeCB	46			38.2	9.96 (S)	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			233	8.82 (S)	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2950	7.58 (S)	0.77	1.257
2,2',4,6-TeCB	50	50 + 53	C	197	8.74 (S)	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	6970	8.09 (S)	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		7.71 (S)		
2,3,3',4-TeCB	55		U		32.8 (S)		
2,3,3',4'-TeCB	56		B	1580	31.4 (S)	0.78	0.905
2,3,3',5-TeCB	57			80.0	30.9 (S)	0.76	0.843
2,3,3',5'-TeCB	58			67.1	30.7 (S)	0.86	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	574	6.71 (S)	0.79	1.300
2,3,4,4'-TeCB	60		B	2160	31.9 (S)	0.78	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	13500	30.1 (S)	0.79	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			661	29.2 (S)	0.77	0.864
2,3,4',6-TeCB	64		B	1580	6.36 (S)	0.79	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	8250	28.2 (S)	0.79	0.884
2,3',4,5-TeCB	67			176	27.2 (S)	0.81	0.855
2,3',4,5'-TeCB	68			332	29.7 (S)	0.76	0.831
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			359	28.6 (S)	0.81	0.822
2,3',5',6-TeCB	73		U		7.15 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	727	30.5 (S)	0.78	1.000
3,3',4,5-TeCB	78		U		30.5 (S)		
3,3',4,5'-TeCB	79			299	25.2 (S)	0.74	0.970
3,3',5,5'-TeCB	80			28.2	27.6 (S)	0.80	0.923
3,4,4',5-TeCB	81			40.9	32.8 (S)	0.85	1.001
2,2',3,3',4-PeCB	82			1430	19.0 (S)	1.53	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	27300	16.9 (S)	1.60	0.885
2,2',3,3',6-PeCB	84		B	1650	19.4 (S)	1.58	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	8900	14.5 (S)	1.54	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	15200	15.1 (S)	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	2200	17.5 (S)	1.57	1.155
2,2',3,4,6'-PeCB	89			45.6	18.2 (S)	1.52	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	40500	15.3 (S)	1.58	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	8250	17.3 (S)	1.57	0.852
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	10600	17.1 (S)	1.56	1.122
2,2',3,5,6'-PeCB	94			65.0	18.9 (S)	1.40	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	8.41	8.05 (S)	1.90	1.017
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			294	15.5 (S)	1.57	1.093
2,2',4,6,6'-PeCB	104		U		8.58 (S)		
2,3,3',4,4'-PeCB	105		B	15400	52.8 (S)	1.55	1.000
2,3,3',4,5-PeCB	106		U		53.7 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	1070	57.1 (S)	1.55	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	5160	53.7 (S)	1.60	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	20900	13.2 (S)	1.55	0.925
2,3,3',5,5'-PeCB	111			225	13.1 (S)	1.60	0.944
2,3,3',5,6-PeCB	112		U		13.4 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			768	58.9 (S)	1.55	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	42600	57.8 (S)	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			849	12.4 (S)	1.60	0.958
2,3',4,5',6-PeCB	121			98.8	13.6 (S)	1.55	1.199
2',3,3',4,5-PeCB	122			203	60.1 (S)	1.45	1.010
2',3,4,4',5-PeCB	123			622	61.0 (S)	1.52	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			244	60.1 (S)	1.59	1.000
3,3',4,5,5'-PeCB	127			101	56.3 (S)	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	14900	24.3 (S)	1.27	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	114000	24.4 (S)	1.27	0.929
2,2',3,3',4,5'-HxCB	130		B	6390	29.4 (S)	1.26	0.913
2,2',3,3',4,6-HxCB	131			264	28.2 (S)	1.17	1.161
2,2',3,3',4,6'-HxCB	132		B	8740	29.5 (S)	1.26	1.177
2,2',3,3',5,5'-HxCB	133		B	3270	27.0 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	2010	27.4 (S)	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	21200	11.3 (S)	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	1720	8.66 (S)	1.25	1.026
2,2',3,4,4',5-HxCB	137		B	2300	27.2 (S)	1.24	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1280	25.2 (S)	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	4670	26.1 (S)	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		27.2 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	1560	11.5 (S)	1.28	1.123
2,2',3,4,6,6'-HxCB	145		U		9.23 (S)		
2,2',3,4',5,5'-HxCB	146		B	29300	23.5 (S)	1.26	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	35800	24.7 (S)	1.26	1.135
2,2',3,4',5,6'-HxCB	148			466	11.8 (S)	1.26	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			85.8	8.90 (S)	1.31	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		8.33 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	149000	21.6 (S)	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			207	8.41 (S)	1.24	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	6670	28.0 (S)	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	5060	19.4 (S)	1.25	0.938
2,3,3',4,5,5'-HxCB	159			336	21.2 (S)	1.26	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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
2,3,3',4,5',6-HxCB	161		U		20.3 (S)		
2,3,3',4',5,5'-HxCB	162			538	22.1 (S)	1.21	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	2530	21.0 (S)	1.29	0.921
2,3,3',5,5',6-HxCB	165			400	22.7 (S)	1.23	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	3280	19.6 (S)	1.30	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		98.8 (S)		
2,2',3,3',4,4',5-HpCB	170		B	11800	14.8 (S)	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	4440	15.0 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	2880	15.0 (S)	1.02	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	7130	14.8 (S)	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			1080	14.0 (S)	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			1180	10.8 (S)	1.02	1.035
2,2',3,3',4',5,6-HpCB	177		B	12800	14.5 (S)	1.03	1.146
2,2',3,3',5,5',6-HpCB	178		B	9640	14.3 (S)	1.03	1.086
2,2',3,3',5,6,6'-HpCB	179		B	5190	10.4 (S)	1.01	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	35000	12.1 (S)	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			125	14.5 (S)	0.95	1.157
2,2',3,4,4',5,6'-HpCB	182			340	13.9 (S)	1.05	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	15700	14.0 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			176	10.3 (S)	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		11.2 (S)		
2,2',3,4',5,5',6-HpCB	187		B	59900	13.2 (S)	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			307	10.3 (S)	0.97	1.001
2,3,3',4,4',5,5'-HpCB	189			491	11.7 (S)	1.10	1.000
2,3,3',4,4',5,6-HpCB	190		B	2120	11.2 (S)	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			485	11.4 (S)	1.09	0.917
2,3,3',4,5,5',6-HpCB	192		U		12.5 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	5180	11.5 (S)	0.92	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	1510	11.9 (S)	0.88	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	3630	12.5 (S)	0.85	0.915
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	1110	9.88 (S)	0.88	1.045
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	11300	12.8 (S)	0.90	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			2030	9.88 (S)	0.92	1.022
2,2',3,3',5,5',6,6'-OcCB	202		B	6190	10.8 (S)	0.89	1.000
2,2',3,4,4',5,5',6-OcCB	203		B	4960	12.1 (S)	0.87	0.919
2,2',3,4,4',5,6,6'-OcCB	204			23.1	9.80 (S)	0.83	1.038
2,3,3',4,4',5,5',6-OcCB	205			271	10.2 (S)	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		B	3900	16.3 (S)	0.79	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			748	13.1 (S)	0.76	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	2110	13.2 (S)	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1750	13.3 (S)	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

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Report Filename: 1668_PCB1668_PCBTF_L15870-4_Form1A_PB1C_034S10_SJ1249751_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 2

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Pleasant -10F
Sample Collection:
N/A

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

Contract No.:	4574	**Project No.**	L13452
Matrix:	TISSUE	**Lab Sample I.D.:**	L15870-4
Sample Receipt Date:	14-Dec-2010	**Sample Size:**	10.2 g (wet)
Extraction Date:	06-Jan-2011	**Initial Calibration Date:**	24-Jan-2011
Analysis Date:	26-Jan-2011 **Time:** 05:17:23	**Instrument ID:**	HR GC/MS
Extract Volume (uL):	20	**GC Column ID:**	SPB OCTYL
Injection Volume (uL):	1.0	**Sample Data Filename:**	**PB1C_034 S: 10**
Dilution Factor:	N/A	**Blank Data Filename:**	PB1C_034 S: 5
Concentration Units:	pg absolute	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
		% Moisture:	78.9
		% Lipid:	1.23

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

LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG [2]	SPIKE CONC.	CONC. FOUND	R(%) [3]	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	679	33.9	3.24	0.720
13C12-4-MoCB	3L			2000	786	39.3	3.17	0.859
13C12-2,2'-DiCB	4L			2000	803	40.2	1.61	0.875
13C12-4,4'-DiCB	15L			2000	1100	54.9	1.59	1.253
13C12-2,2',6-TriCB	19L			2000	1010	50.5	1.05	1.073
13C12-3,4,4'-TriCB	37L			2000	1350	67.4	1.03	1.091
13C12-2,2',6,6'-TeCB	54L			2000	1090	54.4	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1590	79.3	0.79	1.396
13C12-3,4,4',5-TeCB	81L			2000	1510	75.5	0.79	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1330	66.3	1.58	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	1730	86.4	1.57	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1580	79.0	1.62	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1600	80.0	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1600	79.9	1.57	1.152
13C12-3,3',4,4',5-PeCB	126L			2000	1730	86.5	1.58	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1270	63.6	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3180	79.5	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1580	78.8	1.28	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1670	83.6	1.27	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1690	84.6	1.04	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1690	84.5	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1510	75.4	1.04	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1620	81.2	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	1780	89.2	0.93	0.818
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	1610	80.3	0.91	1.010
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1670	83.5	0.80	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1620	80.8	0.78	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1640	81.8	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1230	61.7	1.04	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1610	80.5	1.63	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1730	86.6	1.03	1.012

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

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

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Report Filename: 1668_PCB1668_PCBTF_L15870-4_Form2_PB1C_034S10_SJ1249751.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

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

Project No.	N/A		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-101
Matrix:	CANOLA OIL	**Sample Size:**	10.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g		

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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-MoCB	1		K	0.169	0.0831 (S)	3.65	1.001
3-MoCB	2			0.119	0.0870 (S)	3.12	0.988
4-MoCB	3		K	0.214	0.0888 (S)	2.66	1.001
2,2'-DiCB	4		U		0.331 (S)		
2,3-DiCB	5		U		0.219 (S)		
2,3'-DiCB	6		U		0.198 (S)		
2,4-DiCB	7			7.45	0.202 (S)	1.58	1.156
2,4'-DiCB	8		K	0.577	0.184 (S)	1.19	1.206
2,5-DiCB	9		U		0.194 (S)		
2,6-DiCB	10		U		0.189 (S)		
3,3'-DiCB	11			1.43	0.205 (S)	1.64	0.969
3,4-DiCB	12	12 + 13	C U		0.206 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.197 (S)		
4,4'-DiCB	15		K	0.219	0.201 (S)	1.29	1.000
2,2',3-TriCB	16			0.203	0.123 (S)	1.01	1.166
2,2',4-TriCB	17			0.199	0.107 (S)	1.14	1.138
2,2',5-TriCB	18	18 + 30	C	0.522	0.0908 (S)	1.14	1.113
2,2',6-TriCB	19		U		0.123 (S)		
2,3,3'-TriCB	20	20 + 28	C	0.690	0.0838 (S)	1.10	0.848
2,3,4-TriCB	21	21 + 33	C K	0.256	0.0830 (S)	1.25	0.857
2,3,4'-TriCB	22			0.197	0.0910 (S)	1.16	0.873
2,3,5-TriCB	23		U		0.0897 (S)		
2,3,6-TriCB	24		U		0.0849 (S)		
2,3',4-TriCB	25		U		0.0758 (S)		
2,3',5-TriCB	26	26 + 29	C K	0.173	0.0859 (S)	1.26	1.299
2,3',6-TriCB	27		U		0.0753 (S)		
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31			0.572	0.0793 (S)	1.08	0.836
2,4',6-TriCB	32			0.164	0.0817 (S)	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.0879 (S)		
3,3',4-TriCB	35		U		0.0885 (S)		
3,3',5-TriCB	36		U		0.0803 (S)		
3,4,4'-TriCB	37			0.125	0.0890 (S)	1.15	1.001
3,4,5-TriCB	38		U		0.0826 (S)		
3,4',5-TriCB	39		U		0.0826 (S)		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.316	0.105 (S)	0.84	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			0.202	0.109 (S)	0.81	1.310
2,2',3,5-TeCB	43		U		0.119 (S)		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.971	0.0968 (S)	0.67	1.284
2,2',3,6-TeCB	45	45 + 51	C	0.147	0.107 (S)	0.85	1.147
2,2',3,6'-TeCB	46		U		0.121 (S)		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		U		0.107 (S)		
2,2',4,5'-TeCB	49	49 + 69	C	0.578	0.0917 (S)	0.83	1.257
2,2',4,6-TeCB	50	50 + 53	C U		0.105 (S)		
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			1.18	0.0980 (S)	0.71	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0925 (S)		
2,3,3',4-TeCB	55		U		0.106 (S)		
2,3,3',4'-TeCB	56		K	0.118	0.102 (S)	1.13	0.905
2,3,3',5-TeCB	57		U		0.100 (S)		
2,3,3',5'-TeCB	58		U		0.0997 (S)		
2,3,3',6-TeCB	59	59 + 62 + 75	C K	0.097	0.0812 (S)	1.39	1.300
2,3,4,4'-TeCB	60			0.198	0.103 (S)	0.70	0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	1.46	0.0975 (S)	0.74	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		U		0.0950 (S)		
2,3,4',6-TeCB	64		K	0.309	0.0770 (S)	1.15	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			0.808	0.0916 (S)	0.76	0.885
2,3',4,5-TeCB	67		U		0.0882 (S)		
2,3',4,5'-TeCB	68		U		0.0965 (S)		
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		U		0.0928 (S)		
2,3',5',6-TeCB	73		U		0.0864 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		K	0.100	0.0989 (S)	1.13	1.001
3,3',4,5-TeCB	78		U		0.0989 (S)		
3,3',4,5'-TeCB	79		U		0.0816 (S)		
3,3',5,5'-TeCB	80		U		0.0896 (S)		
3,4,4',5-TeCB	81		U		0.107 (S)		
2,2',3,3',4-PeCB	82		U		0.177 (S)		
2,2',3,3',5-PeCB	83	83 + 99	C	2.39	0.157 (S)	1.74	0.885
2,2',3,3',6-PeCB	84			0.343	0.180 (S)	1.35	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	0.665	0.135 (S)	1.47	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	1.53	0.141 (S)	1.64	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C K	0.291	0.163 (S)	1.87	1.155
2,2',3,4,6'-PeCB	89		U		0.169 (S)		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	3.51	0.142 (S)	1.72	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	0.771	0.161 (S)	1.98	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	1.73	0.159 (S)	1.32	1.122
2,2',3,5,6'-PeCB	94		U		0.176 (S)		
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.0987 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103		U		0.145 (S)		
2,2',4,6,6'-PeCB	104		U		0.102 (S)		
2,3,3',4,4'-PeCB	105			1.30	0.129 (S)	1.72	1.000
2,3,3',4,5-PeCB	106		U		0.126 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C U		0.134 (S)		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			0.271	0.126 (S)	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C	2.67	0.122 (S)	1.44	0.925
2,3,3',5,5'-PeCB	111		U		0.122 (S)		
2,3,3',5,6-PeCB	112		U		0.125 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		0.136 (S)		
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118			3.56	0.141 (S)	1.57	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		0.115 (S)		
2,3',4,5',6-PeCB	121		U		0.126 (S)		
2',3,3',4,5-PeCB	122		U		0.141 (S)		
2',3,4,4',5-PeCB	123		U		0.139 (S)		
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		U		0.147 (S)		
3,3',4,5,5'-PeCB	127		U		0.132 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1.27	0.129 (S)	1.39	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	8.15	0.130 (S)	1.29	0.929
2,2',3,3',4,5'-HxCB	130		K	0.412	0.156 (S)	1.77	0.914
2,2',3,3',4,6-HxCB	131		U		0.150 (S)		
2,2',3,3',4,6'-HxCB	132			0.936	0.157 (S)	1.24	1.177
2,2',3,3',5,5'-HxCB	133			0.185	0.143 (S)	1.16	1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C K	0.174	0.146 (S)	2.66	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	1.89	0.149 (S)	1.15	1.106
2,2',3,3',6,6'-HxCB	136			0.316	0.115 (S)	1.18	1.027
2,2',3,4,4',5-HxCB	137			0.281	0.144 (S)	1.28	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C U		0.134 (S)		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			0.845	0.139 (S)	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		0.145 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			0.221	0.152 (S)	1.29	1.123
2,2',3,4,6,6'-HxCB	145		U		0.122 (S)		
2,2',3,4',5,5'-HxCB	146			1.77	0.125 (S)	1.35	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	3.62	0.131 (S)	1.33	1.135
2,2',3,4',5,6'-HxCB	148		U		0.155 (S)		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		0.117 (S)		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.110 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	9.67	0.115 (S)	1.32	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		0.107 (S)		
2,3,3',4,4',5-HxCB	156	156 + 157	C	0.692	0.150 (S)	1.17	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			0.511	0.103 (S)	1.31	0.938
2,3,3',4,5,5'-HxCB	159		U		0.112 (S)		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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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
2,3,3',4,5',6-HxCB	161		U		0.108 (S)		
2,3,3',4',5,5'-HxCB	162		U		0.118 (S)		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			0.308	0.112 (S)	1.22	0.922
2,3,3',5,5',6-HxCB	165		U		0.121 (S)		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		K	0.269	0.104 (S)	0.95	1.001
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		0.112 (S)		
2,2',3,3',4,4',5-HpCB	170			1.37	0.147 (S)	1.11	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.467	0.150 (S)	1.07	1.164
2,2',3,3',4,5,5'-HpCB	172			0.459	0.149 (S)	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			0.975	0.147 (S)	1.19	1.134
2,2',3,3',4,5',6-HpCB	175		U		0.139 (S)		
2,2',3,3',4,6,6'-HpCB	176		U		0.107 (S)		
2,2',3,3',4',5,6-HpCB	177			1.13	0.145 (S)	1.04	1.147
2,2',3,3',5,5',6-HpCB	178			0.665	0.142 (S)	0.92	1.086
2,2',3,3',5,6,6'-HpCB	179			0.546	0.103 (S)	0.99	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	3.91	0.121 (S)	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		U		0.144 (S)		
2,2',3,4,4',5,6'-HpCB	182		U		0.138 (S)		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C K	1.49	0.140 (S)	1.23	1.128
2,2',3,4,4',6,6'-HpCB	184		U		0.102 (S)		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.111 (S)		
2,2',3,4',5,5',6-HpCB	187			3.60	0.132 (S)	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		0.0969 (S)		
2,3,3',4,4',5,5'-HpCB	189		U		0.115 (S)		
2,3,3',4,4',5,6-HpCB	190			0.247	0.111 (S)	1.15	0.947
2,3,3',4,4',5',6-HpCB	191		U		0.113 (S)		
2,3,3',4,5,5',6-HpCB	192		U		0.125 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			0.588	0.124 (S)	0.99	0.991
2,2',3,3',4,4',5,6-OcCB	195		K	0.213	0.128 (S)	0.68	0.946
2,2',3,3',4,4',5,6'-OcCB	196			0.356	0.151 (S)	1.00	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C U		0.119 (S)		
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C K	0.772	0.155 (S)	0.75	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201		U		0.120 (S)		
2,2',3,3',5,5',6,6'-OcCB	202		K	0.338	0.125 (S)	0.69	1.001
2,2',3,4,4',5,5',6-OcCB	203		K	0.549	0.146 (S)	1.59	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		0.119 (S)		
2,3,3',4,4',5,5',6-OcCB	205		U		0.114 (S)		
2,2',3,3',4,4',5,5',6-NoCB	206		K	0.280	0.178 (S)	0.99	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		U		0.141 (S)		
2,2',3,3',4,5,5',6,6'-NoCB	208		K	0.159	0.141 (S)	1.17	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		0.184 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_WG35116-101_Form1A_PB1C_034S5_SJ1249740.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCB CONGENER ANALYSIS REPORT

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

Project No.	N/A		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-101
Matrix:	CANOLA OIL	**Sample Size:**	2.00 g (dry)
Sample Receipt Date:	N/A	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)		

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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-MoCB	1		K	0.845	0.416 (S)	3.65	1.001
3-MoCB	2			0.595	0.435 (S)	3.12	0.988
4-MoCB	3		K	1.07	0.444 (S)	2.66	1.001
2,2'-DiCB	4		U		1.66 (S)		
2,3-DiCB	5		U		1.10 (S)		
2,3'-DiCB	6		U		0.990 (S)		
2,4-DiCB	7			37.3	1.01 (S)	1.58	1.156
2,4'-DiCB	8		K	2.89	0.920 (S)	1.19	1.206
2,5-DiCB	9		U		0.970 (S)		
2,6-DiCB	10		U		0.945 (S)		
3,3'-DiCB	11			7.15	1.03 (S)	1.64	0.969
3,4-DiCB	12	12 + 13	C U		1.03 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.985 (S)		
4,4'-DiCB	15		K	1.10	1.01 (S)	1.29	1.000
2,2',3-TriCB	16			1.02	0.615 (S)	1.01	1.166
2,2',4-TriCB	17			0.995	0.535 (S)	1.14	1.138
2,2',5-TriCB	18	18 + 30	C	2.61	0.454 (S)	1.14	1.113
2,2',6-TriCB	19		U		0.615 (S)		
2,3,3'-TriCB	20	20 + 28	C	3.45	0.419 (S)	1.10	0.848
2,3,4-TriCB	21	21 + 33	C K	1.28	0.415 (S)	1.25	0.857
2,3,4'-TriCB	22			0.985	0.455 (S)	1.16	0.873
2,3,5-TriCB	23		U		0.449 (S)		
2,3,6-TriCB	24		U		0.425 (S)		
2,3',4-TriCB	25		U		0.379 (S)		
2,3',5-TriCB	26	26 + 29	C K	0.865	0.430 (S)	1.26	1.299
2,3',6-TriCB	27		U		0.377 (S)		
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31			2.86	0.397 (S)	1.08	0.836
2,4',6-TriCB	32			0.820	0.409 (S)	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.440 (S)		
3,3',4-TriCB	35		U		0.443 (S)		
3,3',5-TriCB	36		U		0.402 (S)		
3,4,4'-TriCB	37			0.625	0.445 (S)	1.15	1.001
3,4,5-TriCB	38		U		0.413 (S)		
3,4',5-TriCB	39		U		0.413 (S)		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C	1.58	0.525 (S)	0.84	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			1.01	0.545 (S)	0.81	1.310
2,2',3,5-TeCB	43		U		0.595 (S)		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	4.86	0.484 (S)	0.67	1.284
2,2',3,6-TeCB	45	45 + 51	C	0.735	0.535 (S)	0.85	1.147
2,2',3,6'-TeCB	46		U		0.605 (S)		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		U		0.535 (S)		
2,2',4,5'-TeCB	49	49 + 69	C	2.89	0.459 (S)	0.83	1.257
2,2',4,6-TeCB	50	50 + 53	C U		0.525 (S)		
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			5.90	0.490 (S)	0.71	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.463 (S)		
2,3,3',4-TeCB	55		U		0.530 (S)		
2,3,3',4'-TeCB	56		K	0.590	0.510 (S)	1.13	0.905
2,3,3',5-TeCB	57		U		0.500 (S)		
2,3,3',5'-TeCB	58		U		0.499 (S)		
2,3,3',6-TeCB	59	59 + 62 + 75	C K	0.485	0.406 (S)	1.39	1.300
2,3,4,4'-TeCB	60			0.990	0.515 (S)	0.70	0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	7.30	0.488 (S)	0.74	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		U		0.475 (S)		
2,3,4',6-TeCB	64		K	1.55	0.385 (S)	1.15	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			4.04	0.458 (S)	0.76	0.885
2,3',4,5-TeCB	67		U		0.441 (S)		
2,3',4,5'-TeCB	68		U		0.483 (S)		
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		U		0.464 (S)		
2,3',5',6-TeCB	73		U		0.432 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		K	0.500	0.495 (S)	1.13	1.001
3,3',4,5-TeCB	78		U		0.495 (S)		
3,3',4,5'-TeCB	79		U		0.408 (S)		
3,3',5,5'-TeCB	80		U		0.448 (S)		
3,4,4',5-TeCB	81		U		0.535 (S)		
2,2',3,3',4-PeCB	82		U		0.885 (S)		
2,2',3,3',5-PeCB	83	83 + 99	C	12.0	0.785 (S)	1.74	0.885
2,2',3,3',6-PeCB	84			1.72	0.900 (S)	1.35	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	3.33	0.675 (S)	1.47	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	7.65	0.705 (S)	1.64	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C K	1.46	0.815 (S)	1.87	1.155
2,2',3,4,6'-PeCB	89		U		0.845 (S)		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	17.6	0.710 (S)	1.72	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	3.86	0.805 (S)	1.98	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	8.65	0.795 (S)	1.32	1.122
2,2',3,5,6'-PeCB	94		U		0.880 (S)		
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.494 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103		U		0.725 (S)		
2,2',4,6,6'-PeCB	104		U		0.510 (S)		
2,3,3',4,4'-PeCB	105			6.50	0.645 (S)	1.72	1.000
2,3,3',4,5-PeCB	106		U		0.630 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C U		0.670 (S)		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1.36	0.630 (S)	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C	13.4	0.610 (S)	1.44	0.925
2,3,3',5,5'-PeCB	111		U		0.610 (S)		
2,3,3',5,6-PeCB	112		U		0.625 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		0.680 (S)		
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118			17.8	0.705 (S)	1.57	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		0.575 (S)		
2,3',4,5',6-PeCB	121		U		0.630 (S)		
2',3,3',4,5-PeCB	122		U		0.705 (S)		
2',3,4,4',5-PeCB	123		U		0.695 (S)		
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		U		0.735 (S)		
3,3',4,5,5'-PeCB	127		U		0.660 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	6.35	0.645 (S)	1.39	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	40.8	0.650 (S)	1.29	0.929
2,2',3,3',4,5'-HxCB	130		K	2.06	0.780 (S)	1.77	0.914
2,2',3,3',4,6-HxCB	131		U		0.750 (S)		
2,2',3,3',4,6'-HxCB	132			4.68	0.785 (S)	1.24	1.177
2,2',3,3',5,5'-HxCB	133			0.925	0.715 (S)	1.16	1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C K	0.870	0.730 (S)	2.66	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	9.45	0.745 (S)	1.15	1.106
2,2',3,3',6,6'-HxCB	136			1.58	0.575 (S)	1.18	1.027
2,2',3,4,4',5-HxCB	137			1.41	0.720 (S)	1.28	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C U		0.670 (S)		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			4.23	0.695 (S)	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		0.725 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			1.11	0.760 (S)	1.29	1.123
2,2',3,4,6,6'-HxCB	145		U		0.610 (S)		
2,2',3,4',5,5'-HxCB	146			8.85	0.625 (S)	1.35	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	18.1	0.655 (S)	1.33	1.135
2,2',3,4',5,6'-HxCB	148		U		0.775 (S)		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		0.585 (S)		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.550 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	48.4	0.575 (S)	1.32	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		0.535 (S)		
2,3,3',4,4',5-HxCB	156	156 + 157	C	3.46	0.750 (S)	1.17	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			2.56	0.515 (S)	1.31	0.938
2,3,3',4,5,5'-HxCB	159		U		0.560 (S)		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		0.540 (S)		
2,3,3',4',5,5'-HxCB	162		U		0.590 (S)		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			1.54	0.560 (S)	1.22	0.922
2,3,3',5,5',6-HxCB	165		U		0.605 (S)		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		K	1.35	0.520 (S)	0.95	1.001
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		0.560 (S)		
2,2',3,3',4,4',5-HpCB	170			6.85	0.735 (S)	1.11	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	2.34	0.750 (S)	1.07	1.164
2,2',3,3',4,5,5'-HpCB	172			2.30	0.745 (S)	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			4.88	0.735 (S)	1.19	1.134
2,2',3,3',4,5',6-HpCB	175		U		0.695 (S)		
2,2',3,3',4,6,6'-HpCB	176		U		0.535 (S)		
2,2',3,3',4',5,6-HpCB	177			5.65	0.725 (S)	1.04	1.147
2,2',3,3',5,5',6-HpCB	178			3.33	0.710 (S)	0.92	1.086
2,2',3,3',5,6,6'-HpCB	179			2.73	0.515 (S)	0.99	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	19.6	0.605 (S)	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		U		0.720 (S)		
2,2',3,4,4',5,6'-HpCB	182		U		0.690 (S)		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C K	7.45	0.700 (S)	1.23	1.128
2,2',3,4,4',6,6'-HpCB	184		U		0.510 (S)		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.555 (S)		
2,2',3,4',5,5',6-HpCB	187			18.0	0.660 (S)	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		0.485 (S)		
2,3,3',4,4',5,5'-HpCB	189		U		0.575 (S)		
2,3,3',4,4',5,6-HpCB	190			1.24	0.555 (S)	1.15	0.947
2,3,3',4,4',5',6-HpCB	191		U		0.565 (S)		
2,3,3',4,5,5',6-HpCB	192		U		0.625 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			2.94	0.620 (S)	0.99	0.991
2,2',3,3',4,4',5,6-OcCB	195		K	1.07	0.640 (S)	0.68	0.946
2,2',3,3',4,4',5,6'-OcCB	196			1.78	0.755 (S)	1.00	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C U		0.595 (S)		
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C K	3.86	0.775 (S)	0.75	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201		U		0.600 (S)		
2,2',3,3',5,5',6,6'-OcCB	202		K	1.69	0.625 (S)	0.69	1.001
2,2',3,4,4',5,5',6-OcCB	203		K	2.75	0.730 (S)	1.59	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		0.595 (S)		
2,3,3',4,4',5,5',6-OcCB	205		U		0.570 (S)		
2,2',3,3',4,4',5,5',6-NoCB	206		K	1.40	0.890 (S)	0.99	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		U		0.705 (S)		
2,2',3,3',4,5,5',6,6'-NoCB	208		K	0.795	0.705 (S)	1.17	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		0.920 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_WG35116-101_Form1A_PB1C_034S5_SJ1249740_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCB CONGENER ANALYSIS REPORT

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

Project No.	N/A		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-101
Matrix:	CANOLA OIL	**Sample Size:**	0.200 g (lipid)
Sample Receipt Date:	N/A	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		K	8.45	4.16 (S)	3.65	1.001
3-MoCB	2			5.95	4.35 (S)	3.12	0.988
4-MoCB	3		K	10.7	4.44 (S)	2.66	1.001
2,2'-DiCB	4		U		16.6 (S)		
2,3-DiCB	5		U		11.0 (S)		
2,3'-DiCB	6		U		9.90 (S)		
2,4-DiCB	7			373	10.1 (S)	1.58	1.156
2,4'-DiCB	8		K	28.9	9.20 (S)	1.19	1.206
2,5-DiCB	9		U		9.70 (S)		
2,6-DiCB	10		U		9.45 (S)		
3,3'-DiCB	11			71.5	10.3 (S)	1.64	0.969
3,4-DiCB	12	12 + 13	C U		10.3 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		9.85 (S)		
4,4'-DiCB	15		K	11.0	10.1 (S)	1.29	1.000
2,2',3-TriCB	16			10.2	6.15 (S)	1.01	1.166
2,2',4-TriCB	17			9.95	5.35 (S)	1.14	1.138
2,2',5-TriCB	18	18 + 30	C	26.1	4.54 (S)	1.14	1.113
2,2',6-TriCB	19		U		6.15 (S)		
2,3,3'-TriCB	20	20 + 28	C	34.5	4.19 (S)	1.10	0.848
2,3,4-TriCB	21	21 + 33	C K	12.8	4.15 (S)	1.25	0.857
2,3,4'-TriCB	22			9.85	4.55 (S)	1.16	0.873
2,3,5-TriCB	23		U		4.49 (S)		
2,3,6-TriCB	24		U		4.25 (S)		
2,3',4-TriCB	25		U		3.79 (S)		
2,3',5-TriCB	26	26 + 29	C K	8.65	4.30 (S)	1.26	1.299
2,3',6-TriCB	27		U		3.77 (S)		
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31			28.6	3.97 (S)	1.08	0.836
2,4',6-TriCB	32			8.20	4.09 (S)	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		4.40 (S)		
3,3',4-TriCB	35		U		4.43 (S)		
3,3',5-TriCB	36		U		4.02 (S)		
3,4,4'-TriCB	37			6.25	4.45 (S)	1.15	1.001
3,4,5-TriCB	38		U		4.13 (S)		
3,4',5-TriCB	39		U		4.13 (S)		

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C	15.8	5.25 (S)	0.84	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42			10.1	5.45 (S)	0.81	1.310
2,2',3,5-TeCB	43		U		5.95 (S)		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	48.6	4.84 (S)	0.67	1.284
2,2',3,6-TeCB	45	45 + 51	C	7.35	5.35 (S)	0.85	1.147
2,2',3,6'-TeCB	46		U		6.05 (S)		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		U		5.35 (S)		
2,2',4,5'-TeCB	49	49 + 69	C	28.9	4.59 (S)	0.83	1.257
2,2',4,6-TeCB	50	50 + 53	C U		5.25 (S)		
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52			59.0	4.90 (S)	0.71	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		4.63 (S)		
2,3,3',4-TeCB	55		U		5.30 (S)		
2,3,3',4'-TeCB	56		K	5.90	5.10 (S)	1.13	0.905
2,3,3',5-TeCB	57		U		5.00 (S)		
2,3,3',5'-TeCB	58		U		4.99 (S)		
2,3,3',6-TeCB	59	59 + 62 + 75	C K	4.85	4.06 (S)	1.39	1.300
2,3,4,4'-TeCB	60			9.90	5.15 (S)	0.70	0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	73.0	4.88 (S)	0.74	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63		U		4.75 (S)		
2,3,4',6-TeCB	64		K	15.5	3.85 (S)	1.15	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			40.4	4.58 (S)	0.76	0.885
2,3',4,5-TeCB	67		U		4.41 (S)		
2,3',4,5'-TeCB	68		U		4.83 (S)		
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72		U		4.64 (S)		
2,3',5',6-TeCB	73		U		4.32 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		K	5.00	4.95 (S)	1.13	1.001
3,3',4,5-TeCB	78		U		4.95 (S)		
3,3',4,5'-TeCB	79		U		4.08 (S)		
3,3',5,5'-TeCB	80		U		4.48 (S)		
3,4,4',5-TeCB	81		U		5.35 (S)		
2,2',3,3',4-PeCB	82		U		8.85 (S)		
2,2',3,3',5-PeCB	83	83 + 99	C	120	7.85 (S)	1.74	0.885
2,2',3,3',6-PeCB	84			17.2	9.00 (S)	1.35	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	33.3	6.75 (S)	1.47	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	76.5	7.05 (S)	1.64	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C K	14.6	8.15 (S)	1.87	1.155
2,2',3,4,6'-PeCB	89		U		8.45 (S)		
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	176	7.10 (S)	1.72	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	38.6	8.05 (S)	1.98	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	86.5	7.95 (S)	1.32	1.122
2,2',3,5,6'-PeCB	94		U		8.80 (S)		
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		4.94 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103		U		7.25 (S)		
2,2',4,6,6'-PeCB	104		U		5.10 (S)		
2,3,3',4,4'-PeCB	105			65.0	6.45 (S)	1.72	1.000
2,3,3',4,5-PeCB	106		U		6.30 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C U		6.70 (S)		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			13.6	6.30 (S)	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C	134	6.10 (S)	1.44	0.925
2,3,3',5,5'-PeCB	111		U		6.10 (S)		
2,3,3',5,6-PeCB	112		U		6.25 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		6.80 (S)		
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118			178	7.05 (S)	1.57	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		5.75 (S)		
2,3',4,5',6-PeCB	121		U		6.30 (S)		
2',3,3',4,5-PeCB	122		U		7.05 (S)		
2',3,4,4',5-PeCB	123		U		6.95 (S)		
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		U		7.35 (S)		
3,3',4,5,5'-PeCB	127		U		6.60 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	63.5	6.45 (S)	1.39	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	408	6.50 (S)	1.29	0.929
2,2',3,3',4,5'-HxCB	130		K	20.6	7.80 (S)	1.77	0.914
2,2',3,3',4,6-HxCB	131		U		7.50 (S)		
2,2',3,3',4,6'-HxCB	132			46.8	7.85 (S)	1.24	1.177
2,2',3,3',5,5'-HxCB	133			9.25	7.15 (S)	1.16	1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C K	8.70	7.30 (S)	2.66	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	94.5	7.45 (S)	1.15	1.106
2,2',3,3',6,6'-HxCB	136			15.8	5.75 (S)	1.18	1.027
2,2',3,4,4',5-HxCB	137			14.1	7.20 (S)	1.28	0.919
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C U		6.70 (S)		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			42.3	6.95 (S)	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		7.25 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			11.1	7.60 (S)	1.29	1.123
2,2',3,4,6,6'-HxCB	145		U		6.10 (S)		
2,2',3,4',5,5'-HxCB	146			88.5	6.25 (S)	1.35	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C	181	6.55 (S)	1.33	1.135
2,2',3,4',5,6'-HxCB	148		U		7.75 (S)		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		5.85 (S)		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		5.50 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	484	5.75 (S)	1.32	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		5.35 (S)		
2,3,3',4,4',5-HxCB	156	156 + 157	C	34.6	7.50 (S)	1.17	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158			25.6	5.15 (S)	1.31	0.938
2,3,3',4,5,5'-HxCB	159		U		5.60 (S)		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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
2,3,3',4,5',6-HxCB	161		U		5.40 (S)		
2,3,3',4',5,5'-HxCB	162		U		5.90 (S)		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			15.4	5.60 (S)	1.22	0.922
2,3,3',5,5',6-HxCB	165		U		6.05 (S)		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		K	13.5	5.20 (S)	0.95	1.001
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		5.60 (S)		
2,2',3,3',4,4',5-HpCB	170			68.5	7.35 (S)	1.11	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	23.4	7.50 (S)	1.07	1.164
2,2',3,3',4,5,5'-HpCB	172			23.0	7.45 (S)	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			48.8	7.35 (S)	1.19	1.134
2,2',3,3',4,5',6-HpCB	175		U		6.95 (S)		
2,2',3,3',4,6,6'-HpCB	176		U		5.35 (S)		
2,2',3,3',4',5,6-HpCB	177			56.5	7.25 (S)	1.04	1.147
2,2',3,3',5,5',6-HpCB	178			33.3	7.10 (S)	0.92	1.086
2,2',3,3',5,6,6'-HpCB	179			27.3	5.15 (S)	0.99	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	196	6.05 (S)	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		U		7.20 (S)		
2,2',3,4,4',5,6'-HpCB	182		U		6.90 (S)		
2,2',3,4,4',5',6-HpCB	183	183 + 185	C K	74.5	7.00 (S)	1.23	1.128
2,2',3,4,4',6,6'-HpCB	184		U		5.10 (S)		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		5.55 (S)		
2,2',3,4',5,5',6-HpCB	187			180	6.60 (S)	1.03	1.110
2,2',3,4',5,6,6'-HpCB	188		U		4.85 (S)		
2,3,3',4,4',5,5'-HpCB	189		U		5.75 (S)		
2,3,3',4,4',5,6-HpCB	190			12.4	5.55 (S)	1.15	0.947
2,3,3',4,4',5',6-HpCB	191		U		5.65 (S)		
2,3,3',4,5,5',6-HpCB	192		U		6.25 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194			29.4	6.20 (S)	0.99	0.991
2,2',3,3',4,4',5,6-OcCB	195		K	10.7	6.40 (S)	0.68	0.946
2,2',3,3',4,4',5,6'-OcCB	196			17.8	7.55 (S)	1.00	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C U		5.95 (S)		
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C K	38.6	7.75 (S)	0.75	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201		U		6.00 (S)		
2,2',3,3',5,5',6,6'-OcCB	202		K	16.9	6.25 (S)	0.69	1.001
2,2',3,4,4',5,5',6-OcCB	203		K	27.5	7.30 (S)	1.59	0.920
2,2',3,4,4',5,6,6'-OcCB	204		U		5.95 (S)		
2,3,3',4,4',5,5',6-OcCB	205		U		5.70 (S)		
2,2',3,3',4,4',5,5',6-NoCB	206		K	14.0	8.90 (S)	0.99	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		U		7.05 (S)		
2,2',3,3',4,5,5',6,6'-NoCB	208		K	7.95	7.05 (S)	1.17	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		9.20 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

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Report Filename: 1668_PCB1668_PCBTF_WG35116-101_Form1A_PB1C_034S5_SJ1249740_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 2

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

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

Contract No.:	4574	**Project No.**	N/A
Matrix:	CANOLA OIL	**Lab Sample I.D.:**	WG35116-101
Sample Receipt Date:	N/A	**Sample Size:**	10.0 g
Extraction Date:	06-Jan-2011	**Initial Calibration Date:**	24-Jan-2011
Analysis Date:	25-Jan-2011 **Time:** 23:55:30	**Instrument ID:**	HR GC/MS
Extract Volume (uL):	20	**GC Column ID:**	SPB OCTYL
Injection Volume (uL):	1.0	**Sample Data Filename:**	**PB1C_034 S: 5**
Dilution Factor:	N/A	**Blank Data Filename:**	PB1C_034 S: 5
Concentration Units:	pg absolute	**Cal. Ver. Data Filename:**	PB1C_034 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.

LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG [2]	SPIKE CONC.	CONC. FOUND	R(%) [3]	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	598	29.9	3.21	0.721
13C12-4-MoCB	3L			2000	719	35.9	3.16	0.859
13C12-2,2'-DiCB	4L			2000	761	38.0	1.59	0.874
13C12-4,4'-DiCB	15L			2000	970	48.5	1.59	1.252
13C12-2,2',6-TriCB	19L			2000	967	48.3	1.06	1.072
13C12-3,4,4'-TriCB	37L			2000	1230	61.4	1.04	1.091
13C12-2,2',6,6'-TeCB	54L			2000	1010	50.4	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1440	72.1	0.79	1.396
13C12-3,4,4',5-TeCB	81L			2000	1350	67.6	0.79	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1230	61.7	1.55	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1580	79.0	1.59	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1440	72.0	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1470	73.5	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1460	73.2	1.58	1.152
13C12-3,3',4,4',5-PeCB	126L			2000	1550	77.5	1.59	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1260	62.8	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3000	75.1	1.27	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1520	76.0	1.27	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1520	75.8	1.27	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1630	81.7	1.02	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1630	81.3	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1540	77.0	1.05	0.711
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1560	77.9	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	1870	93.3	0.91	0.817
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	1520	76.1	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1510	75.6	0.79	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1590	79.4	0.78	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1540	77.2	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1100	55.0	1.05	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1460	73.0	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1630	81.7	1.05	1.012

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

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

Signed: _____Alina Tarnauceanu_____

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Report Filename: 1668_PCB1668_PCBTF_WG35116-101_Form2_PB1C_034S5_SJ1249740.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 8A

PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4574	**Lab Sample I.D.:**	WG35116-102
Matrix:	CANOLA OIL	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 20:42:29	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**OPR Data Filename:**	**PB1C_034 S: 2**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 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 (ng/mL)	% RECOVERY
2-MoCB	1			3.08	50.0	49.5	25.0 - 75.0	99.1
4-MoCB	3			3.09	50.0	49.7	25.0 - 75.0	99.5
2,2'-DiCB	4			1.60	50.0	50.2	25.0 - 75.0	100
4,4'-DiCB	15			1.57	50.0	49.6	25.0 - 75.0	99.2
2,2',6-TriCB	19			1.05	50.0	49.4	25.0 - 75.0	98.8
3,4,4'-TriCB	37			1.06	50.0	51.0	25.0 - 75.0	102
2,2',6,6'-TeCB	54			0.79	50.0	50.3	25.0 - 75.0	101
3,3',4,4'-TeCB	77			0.78	50.0	51.6	25.0 - 75.0	103
3,4,4',5-TeCB	81			0.77	50.0	51.6	25.0 - 75.0	103
2,2',4,6,6'-PeCB	104			1.55	50.0	49.4	25.0 - 75.0	98.9
2,3,3',4,4'-PeCB	105			1.54	50.0	49.8	25.0 - 75.0	99.6
2,3,4,4',5-PeCB	114			1.57	50.0	49.2	25.0 - 75.0	98.5
2,3',4,4',5-PeCB	118			1.57	50.0	51.3	25.0 - 75.0	103
2',3,4,4',5-PeCB	123			1.54	50.0	49.6	25.0 - 75.0	99.1
3,3',4,4',5-PeCB	126			1.57	50.0	49.2	25.0 - 75.0	98.4
2,2',4,4',6,6'-HxCB	155			1.26	50.0	49.3	25.0 - 75.0	98.7
2,3,3',4,4',5-HxCB	156	156 + 157	C	1.27	100	99.5	50.0 - 150	99.5
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			1.27	50.0	49.9	25.0 - 75.0	99.8
3,3',4,4',5,5'-HxCB	169			1.29	50.0	50.1	25.0 - 75.0	100
2,2',3,4',5,6,6'-HpCB	188			1.03	50.0	49.4	25.0 - 75.0	98.7
2,3,3',4,4',5,5'-HpCB	189			1.07	50.0	48.7	25.0 - 75.0	97.3
2,2',3,3',5,5',6,6'-OcCB	202			0.89	50.0	48.4	25.0 - 75.0	96.9
2,3,3',4,4',5,5',6-OcCB	205			0.90	50.0	49.6	25.0 - 75.0	99.2
2,2',3,3',4,4',5,5',6-NoCB	206			0.78	50.0	49.6	25.0 - 75.0	99.2
2,2',3,3',4,5,5',6,6'-NoCB	208			0.81	50.0	49.4	25.0 - 75.0	98.7
2,2',3,3',4,4',5,5',6,6'-DeCB	209			0.67	50.0	50.3	25.0 - 75.0	101

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

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

Signed: _____Alina Tarnauceanu_____

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.

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AXYS METHOD MLA-010 Rev 10

Form 8B

PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4574	**Lab Sample I.D.:**	WG35116-102
Matrix:	CANOLA OIL	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2011 **Time:** 20:42:29	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**OPR Data Filename:**	**PB1C_034 S: 2**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1

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

LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG[2]	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
13C12-2-MoCB	1L			3.24	100	32.5	15.0 - 140	32.5
13C12-4-MoCB	3L			3.18	100	38.0	15.0 - 140	38.0
13C12-2,2'-DiCB	4L			1.60	100	38.8	30.0 - 140	38.8
13C12-4,4'-DiCB	15L			1.54	100	49.3	30.0 - 140	49.3
13C12-2,2',6-TriCB	19L			1.04	100	47.5	30.0 - 140	47.5
13C12-3,4,4'-TriCB	37L			1.06	100	62.2	30.0 - 140	62.2
13C12-2,2',6,6'-TeCB	54L			0.79	100	50.6	30.0 - 140	50.6
13C12-3,3',4,4'-TeCB	77L			0.77	100	72.5	30.0 - 140	72.5
13C12-3,4,4',5-TeCB	81L			0.76	100	69.8	30.0 - 140	69.8
13C12-2,2',4,6,6'-PeCB	104L			1.57	100	62.8	30.0 - 140	62.8
13C12-2,3,3',4,4'-PeCB	105L			1.57	100	80.0	30.0 - 140	80.0
13C12-2,3,4,4',5-PeCB	114L			1.58	100	72.5	30.0 - 140	72.5
13C12-2,3',4,4',5-PeCB	118L			1.57	100	74.4	30.0 - 140	74.4
13C12-2',3,4,4',5-PeCB	123L			1.56	100	74.0	30.0 - 140	74.0
13C12-3,3',4,4',5-PeCB	126L			1.58	100	79.1	30.0 - 140	79.1
13C12-2,2',4,4',6,6'-HxCB	155L			1.23	100	63.2	30.0 - 140	63.2
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.28	200	146	60.0 - 280	73.1
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			1.27	100	74.3	30.0 - 140	74.3
13C12-3,3',4,4',5,5'-HxCB	169L			1.26	100	73.9	30.0 - 140	73.9
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.05	100	76.4	30.0 - 140	76.4
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.04	100	77.5	30.0 - 140	77.5
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			0.92	100	93.4	30.0 - 140	93.4
13C12-2,3,3',4,4',5,5',6-OcCB	205L			0.90	100	75.6	30.0 - 140	75.6
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.80	100	76.0	30.0 - 140	76.0
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			0.79	100	78.2	30.0 - 140	78.2
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			1.22	100	74.3	30.0 - 140	74.3
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			1.05	100	55.9	40.0 - 125	55.9
13C12-2,3,3',5,5'-PeCB	111L			1.63	100	72.8	40.0 - 125	72.8
13C12-2,2',3,3',5,5',6-HpCB	178L			1.07	100	79.5	40.0 - 125	79.5

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

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

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.

For Axys Internal Use Only [XSL Template: Form16688B.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_WG35116-102_Form8B_SJ1249733.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	10.6 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	78.4
		% Lipid:	1.69

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.337	0.0799 (S)	3.29	1.001
3-MoCB	2		B	0.361	0.0866 (S)	3.27	0.988
4-MoCB	3		K B	0.288	0.0912 (S)	3.63	1.001
2,2'-DiCB	4			1.41	0.325 (S)	1.64	1.001
2,3-DiCB	5		U		0.214 (S)		
2,3'-DiCB	6			0.769	0.193 (S)	1.47	1.173
2,4-DiCB	7		U		0.197 (S)		
2,4'-DiCB	8		B	3.73	0.179 (S)	1.60	1.205
2,5-DiCB	9		K	0.271	0.189 (S)	1.03	1.144
2,6-DiCB	10		U		0.185 (S)		
3,3'-DiCB	11		B	9.07	0.200 (S)	1.57	0.969
3,4-DiCB	12	12 + 13	C U		0.201 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.192 (S)		
4,4'-DiCB	15		B	0.721	0.195 (S)	1.71	1.001
2,2',3-TriCB	16		B	2.53	0.179 (S)	1.04	1.165
2,2',4-TriCB	17		K B	1.96	0.156 (S)	1.25	1.137
2,2',5-TriCB	18	18 + 30	C B	9.55	0.132 (S)	1.06	1.112
2,2',6-TriCB	19			0.880	0.178 (S)	0.92	1.001
2,3,3'-TriCB	20	20 + 28	C B	70.9	0.114 (S)	1.06	0.848
2,3,4-TriCB	21	21 + 33	C B	8.98	0.113 (S)	1.06	0.857
2,3,4'-TriCB	22		B	11.3	0.124 (S)	1.07	0.873
2,3,5-TriCB	23		U		0.122 (S)		
2,3,6-TriCB	24		U		0.124 (S)		
2,3',4-TriCB	25			2.76	0.103 (S)	1.11	0.825
2,3',5-TriCB	26	26 + 29	C B	6.89	0.117 (S)	1.05	1.300
2,3',6-TriCB	27			0.918	0.110 (S)	0.93	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	42.7	0.108 (S)	1.06	0.836
2,4',6-TriCB	32		B	2.22	0.111 (S)	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.120 (S)		
3,3',4-TriCB	35		U		0.120 (S)		
3,3',5-TriCB	36		U		0.109 (S)		
3,4,4'-TriCB	37		B	3.31	0.121 (S)	1.10	1.001
3,4,5-TriCB	38		K	0.125	0.112 (S)	1.46	0.968
3,4',5-TriCB	39		K	0.476	0.112 (S)	1.22	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	24.3	0.153 (S)	0.79	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	21.2	0.159 (S)	0.81	1.309
2,2',3,5-TeCB	43			1.73	0.173 (S)	0.81	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	136	0.141 (S)	0.80	1.283
2,2',3,6-TeCB	45	45 + 51	C B	3.07	0.156 (S)	0.72	1.144
2,2',3,6'-TeCB	46			0.824	0.176 (S)	0.73	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			4.21	0.156 (S)	0.85	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	65.4	0.134 (S)	0.79	1.257
2,2',4,6-TeCB	50	50 + 53	C	4.00	0.154 (S)	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	128	0.143 (S)	0.78	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.139 (S)		
2,3,3',4-TeCB	55		U		0.279 (S)		
2,3,3',4'-TeCB	56		B	31.1	0.268 (S)	0.79	0.905
2,3,3',5-TeCB	57			1.55	0.263 (S)	0.78	0.844
2,3,3',5'-TeCB	58			1.25	0.262 (S)	0.81	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	11.4	0.119 (S)	0.76	1.300
2,3,4,4'-TeCB	60		B	42.8	0.271 (S)	0.81	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	319	0.256 (S)	0.79	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			13.3	0.249 (S)	0.79	0.864
2,3,4',6-TeCB	64		B	32.1	0.112 (S)	0.80	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	179	0.240 (S)	0.79	0.884
2,3',4,5-TeCB	67			3.60	0.232 (S)	0.74	0.855
2,3',4,5'-TeCB	68			6.20	0.253 (S)	0.75	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			7.18	0.244 (S)	0.76	0.822
2,3',5',6-TeCB	73		U		0.126 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	15.0	0.257 (S)	0.79	1.000
3,3',4,5-TeCB	78		U		0.260 (S)		
3,3',4,5'-TeCB	79			6.60	0.214 (S)	0.76	0.970
3,3',5,5'-TeCB	80		K	0.698	0.235 (S)	0.61	0.923
3,4,4',5-TeCB	81			0.589	0.279 (S)	0.75	1.001
2,2',3,3',4-PeCB	82			30.7	0.293 (S)	1.56	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	722	0.260 (S)	1.61	0.885
2,2',3,3',6-PeCB	84		B	31.4	0.298 (S)	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	164	0.224 (S)	1.55	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	293	0.233 (S)	1.54	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	39.1	0.270 (S)	1.62	1.155
2,2',3,4,6'-PeCB	89		K	0.768	0.280 (S)	1.83	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	690	0.235 (S)	1.61	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	140	0.267 (S)	1.55	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	188	0.263 (S)	1.58	1.122
2,2',3,5,6'-PeCB	94			1.09	0.291 (S)	1.43	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.126 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			5.29	0.240 (S)	1.68	1.093
2,2',4,6,6'-PeCB	104		U		0.139 (S)		
2,3,3',4,4'-PeCB	105		B	273	0.746 (S)	1.57	1.000
2,3,3',4,5-PeCB	106		U		0.760 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	18.1	0.808 (S)	1.47	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	86.4	0.761 (S)	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	391	0.202 (S)	1.54	0.925
2,3,3',5,5'-PeCB	111			3.56	0.202 (S)	1.64	0.944
2,3,3',5,6-PeCB	112		U		0.207 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			14.7	0.831 (S)	1.63	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	850	0.805 (S)	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			13.8	0.191 (S)	1.55	0.958
2,3',4,5',6-PeCB	121			1.60	0.208 (S)	1.46	1.199
2',3,3',4,5-PeCB	122			3.84	0.851 (S)	1.52	1.010
2',3,4,4',5-PeCB	123			9.76	0.860 (S)	1.53	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			4.05	0.854 (S)	1.61	1.000
3,3',4,5,5'-PeCB	127			1.61	0.796 (S)	1.72	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	251	1.05 (S)	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1900	1.05 (S)	1.25	0.929
2,2',3,3',4,5'-HxCB	130		B	101	1.27 (S)	1.23	0.913
2,2',3,3',4,6-HxCB	131			4.57	1.21 (S)	1.32	1.161
2,2',3,3',4,6'-HxCB	132		B	149	1.27 (S)	1.24	1.177
2,2',3,3',5,5'-HxCB	133		B	49.7	1.16 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	34.9	1.18 (S)	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	346	0.187 (S)	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	30.9	0.144 (S)	1.26	1.026
2,2',3,4,4',5-HxCB	137		B	39.8	1.17 (S)	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	19.8	1.08 (S)	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	73.4	1.13 (S)	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		1.17 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	24.7	0.192 (S)	1.23	1.123
2,2',3,4,6,6'-HxCB	145		U		0.153 (S)		
2,2',3,4',5,5'-HxCB	146		B	441	1.01 (S)	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	599	1.06 (S)	1.27	1.134
2,2',3,4',5,6'-HxCB	148			7.05	0.196 (S)	1.21	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1.50	0.148 (S)	1.35	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.139 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	2290	0.928 (S)	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			3.20	0.142 (S)	1.36	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	102	1.20 (S)	1.28	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	76.9	0.832 (S)	1.27	0.938
2,3,3',4,5,5'-HxCB	159			4.89	0.911 (S)	1.16	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		0.876 (S)		
2,3,3',4',5,5'-HxCB	162			8.27	0.952 (S)	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	40.3	0.904 (S)	1.25	0.921
2,3,3',5,5',6-HxCB	165			5.81	0.979 (S)	1.28	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	50.2	0.837 (S)	1.24	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.32 (S)		
2,2',3,3',4,4',5-HpCB	170		B	162	0.262 (S)	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	65.1	0.267 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	39.2	0.266 (S)	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	107	0.262 (S)	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			15.0	0.249 (S)	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			17.7	0.191 (S)	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	189	0.258 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	137	0.253 (S)	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	80.4	0.184 (S)	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	474	0.215 (S)	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		K	1.71	0.257 (S)	0.87	1.157
2,2',3,4,4',5,6'-HpCB	182			4.65	0.247 (S)	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	213	0.249 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			2.43	0.182 (S)	0.98	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.198 (S)		
2,2',3,4',5,5',6-HpCB	187		B	819	0.235 (S)	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			4.35	0.178 (S)	0.98	1.000
2,3,3',4,4',5,5'-HpCB	189			6.57	0.187 (S)	1.10	1.000
2,3,3',4,4',5,6-HpCB	190		B	27.8	0.199 (S)	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			6.70	0.202 (S)	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.222 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	58.8	0.171 (S)	0.90	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	17.9	0.178 (S)	0.92	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	41.6	0.180 (S)	0.87	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	13.2	0.142 (S)	0.94	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	131	0.185 (S)	0.91	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			26.1	0.142 (S)	0.88	1.023
2,2',3,3',5,5',6,6'-OcCB	202		B	75.9	0.150 (S)	0.87	1.001
2,2',3,4,4',5,5',6-OcCB	203		B	55.4	0.174 (S)	0.89	0.919
2,2',3,4,4',5,6,6'-OcCB	204			0.301	0.142 (S)	0.82	1.039
2,3,3',4,4',5,5',6-OcCB	205			3.19	0.157 (S)	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		B	44.8	0.235 (S)	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			8.97	0.189 (S)	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	24.4	0.191 (S)	0.83	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			21.0	0.219 (S)	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_WG35116-103_Form1A_PB1C_034S7_SJ1249745.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	2.28 g (dry)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (dry weight basis)	**% Moisture:**	78.4
		% Lipid:	1.69

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	1.56	0.370 (S)	3.29	1.001
3-MoCB	2		B	1.67	0.401 (S)	3.27	0.988
4-MoCB	3		K B	1.33	0.423 (S)	3.63	1.001
2,2'-DiCB	4			6.53	1.50 (S)	1.64	1.001
2,3-DiCB	5		U		0.990 (S)		
2,3'-DiCB	6			3.56	0.897 (S)	1.47	1.173
2,4-DiCB	7		U		0.912 (S)		
2,4'-DiCB	8		B	17.2	0.826 (S)	1.60	1.205
2,5-DiCB	9		K	1.26	0.873 (S)	1.03	1.144
2,6-DiCB	10		U		0.858 (S)		
3,3'-DiCB	11		B	42.0	0.928 (S)	1.57	0.969
3,4-DiCB	12	12 + 13	C U		0.928 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.889 (S)		
4,4'-DiCB	15		B	3.34	0.904 (S)	1.71	1.001
2,2',3-TriCB	16		B	11.7	0.826 (S)	1.04	1.165
2,2',4-TriCB	17		K B	9.04	0.722 (S)	1.25	1.137
2,2',5-TriCB	18	18 + 30	C B	44.2	0.611 (S)	1.06	1.112
2,2',6-TriCB	19			4.08	0.826 (S)	0.92	1.001
2,3,3'-TriCB	20	20 + 28	C B	328	0.528 (S)	1.06	0.848
2,3,4-TriCB	21	21 + 33	C B	41.6	0.523 (S)	1.06	0.857
2,3,4'-TriCB	22		B	52.3	0.574 (S)	1.07	0.873
2,3,5-TriCB	23		U		0.564 (S)		
2,3,6-TriCB	24		U		0.574 (S)		
2,3',4-TriCB	25			12.8	0.477 (S)	1.11	0.825
2,3',5-TriCB	26	26 + 29	C B	31.9	0.542 (S)	1.05	1.300
2,3',6-TriCB	27			4.25	0.509 (S)	0.93	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	198	0.500 (S)	1.06	0.836
2,4',6-TriCB	32		B	10.3	0.514 (S)	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.556 (S)		
3,3',4-TriCB	35		U		0.556 (S)		
3,3',5-TriCB	36		U		0.504 (S)		
3,4,4'-TriCB	37		B	15.4	0.561 (S)	1.10	1.001
3,4,5-TriCB	38		K	0.579	0.518 (S)	1.46	0.968
3,4',5-TriCB	39		K	2.21	0.518 (S)	1.22	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	112	0.709 (S)	0.79	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	98.2	0.736 (S)	0.81	1.309
2,2',3,5-TeCB	43			8.03	0.803 (S)	0.81	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	630	0.653 (S)	0.80	1.283
2,2',3,6-TeCB	45	45 + 51	C B	14.2	0.722 (S)	0.72	1.144
2,2',3,6'-TeCB	46			3.81	0.819 (S)	0.73	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			19.5	0.722 (S)	0.85	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	303	0.621 (S)	0.79	1.257
2,2',4,6-TeCB	50	50 + 53	C	18.6	0.713 (S)	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	593	0.662 (S)	0.78	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.643 (S)		
2,3,3',4-TeCB	55		U		1.29 (S)		
2,3,3',4'-TeCB	56		B	144	1.24 (S)	0.79	0.905
2,3,3',5-TeCB	57			7.17	1.22 (S)	0.78	0.844
2,3,3',5'-TeCB	58			5.79	1.22 (S)	0.81	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	52.8	0.551 (S)	0.76	1.300
2,3,4,4'-TeCB	60		B	198	1.26 (S)	0.81	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	1470	1.19 (S)	0.79	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			61.6	1.15 (S)	0.79	0.864
2,3,4',6-TeCB	64		B	149	0.518 (S)	0.80	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	826	1.11 (S)	0.79	0.884
2,3',4,5-TeCB	67			16.7	1.08 (S)	0.74	0.855
2,3',4,5'-TeCB	68			28.7	1.17 (S)	0.75	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			33.2	1.13 (S)	0.76	0.822
2,3',5',6-TeCB	73		U		0.583 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	69.5	1.19 (S)	0.79	1.000
3,3',4,5-TeCB	78		U		1.20 (S)		
3,3',4,5'-TeCB	79			30.6	0.990 (S)	0.76	0.970
3,3',5,5'-TeCB	80		K	3.23	1.09 (S)	0.61	0.923
3,4,4',5-TeCB	81			2.73	1.29 (S)	0.75	1.001
2,2',3,3',4-PeCB	82			142	1.36 (S)	1.56	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	3340	1.20 (S)	1.61	0.885
2,2',3,3',6-PeCB	84		B	145	1.38 (S)	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	759	1.04 (S)	1.55	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1360	1.08 (S)	1.54	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	181	1.25 (S)	1.62	1.155
2,2',3,4,6'-PeCB	89		K	3.56	1.29 (S)	1.83	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	3200	1.09 (S)	1.61	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	648	1.24 (S)	1.55	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	873	1.22 (S)	1.58	1.122
2,2',3,5,6'-PeCB	94			5.04	1.35 (S)	1.43	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.583 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			24.5	1.11 (S)	1.68	1.093
2,2',4,6,6'-PeCB	104		U		0.643 (S)		
2,3,3',4,4'-PeCB	105		B	1260	3.45 (S)	1.57	1.000
2,3,3',4,5-PeCB	106		U		3.52 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	83.4	3.74 (S)	1.47	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	400	3.52 (S)	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1810	0.936 (S)	1.54	0.925
2,3,3',5,5'-PeCB	111			16.5	0.936 (S)	1.64	0.944
2,3,3',5,6-PeCB	112		U		0.959 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			68.1	3.84 (S)	1.63	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	3940	3.73 (S)	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			63.9	0.881 (S)	1.55	0.958
2,3',4,5',6-PeCB	121			7.41	0.967 (S)	1.46	1.199
2',3,3',4,5-PeCB	122			17.8	3.94 (S)	1.52	1.010
2',3,4,4',5-PeCB	123			45.2	3.98 (S)	1.53	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			18.7	3.95 (S)	1.61	1.000
3,3',4,5,5'-PeCB	127			7.45	3.69 (S)	1.72	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1160	4.87 (S)	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	8810	4.87 (S)	1.25	0.929
2,2',3,3',4,5'-HxCB	130		B	468	5.88 (S)	1.23	0.913
2,2',3,3',4,6-HxCB	131			21.1	5.61 (S)	1.32	1.161
2,2',3,3',4,6'-HxCB	132		B	690	5.88 (S)	1.24	1.177
2,2',3,3',5,5'-HxCB	133		B	230	5.37 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	161	5.47 (S)	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1600	0.865 (S)	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	143	0.667 (S)	1.26	1.026
2,2',3,4,4',5-HxCB	137		B	184	5.42 (S)	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	92.0	5.00 (S)	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	340	5.23 (S)	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		5.42 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	115	0.889 (S)	1.23	1.123
2,2',3,4,6,6'-HxCB	145		U		0.709 (S)		
2,2',3,4',5,5'-HxCB	146		B	2040	4.68 (S)	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2780	4.90 (S)	1.27	1.134
2,2',3,4',5,6'-HxCB	148			32.7	0.904 (S)	1.21	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			6.95	0.685 (S)	1.35	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.643 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	10600	4.30 (S)	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.8	0.657 (S)	1.36	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	472	5.56 (S)	1.28	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	356	3.85 (S)	1.27	0.938
2,3,3',4,5,5'-HxCB	159			22.6	4.22 (S)	1.16	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		4.05 (S)		
2,3,3',4',5,5'-HxCB	162			38.3	4.41 (S)	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	186	4.19 (S)	1.25	0.921
2,3,3',5,5',6-HxCB	165			26.9	4.53 (S)	1.28	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	232	3.87 (S)	1.24	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		6.11 (S)		
2,2',3,3',4,4',5-HpCB	170		B	750	1.22 (S)	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	302	1.24 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	182	1.23 (S)	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	495	1.22 (S)	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			69.5	1.15 (S)	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			81.9	0.881 (S)	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	873	1.19 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	635	1.17 (S)	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	372	0.850 (S)	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2190	0.998 (S)	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		K	7.95	1.19 (S)	0.87	1.157
2,2',3,4,4',5,6'-HpCB	182			21.5	1.15 (S)	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	982	1.15 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			11.2	0.842 (S)	0.98	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.920 (S)		
2,2',3,4',5,5',6-HpCB	187		B	3790	1.09 (S)	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			20.1	0.826 (S)	0.98	1.000
2,3,3',4,4',5,5'-HpCB	189			30.4	0.865 (S)	1.10	1.000
2,3,3',4,4',5,6-HpCB	190		B	129	0.920 (S)	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			31.0	0.936 (S)	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		1.03 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	272	0.795 (S)	0.90	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	82.6	0.826 (S)	0.92	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	193	0.834 (S)	0.87	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	61.1	0.657 (S)	0.94	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	607	0.858 (S)	0.91	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			121	0.657 (S)	0.88	1.023
2,2',3,3',5,5',6,6'-OcCB	202		B	352	0.695 (S)	0.87	1.001
2,2',3,4,4',5,5',6-OcCB	203		B	257	0.803 (S)	0.89	0.919
2,2',3,4,4',5,6,6'-OcCB	204			1.40	0.657 (S)	0.82	1.039
2,3,3',4,4',5,5',6-OcCB	205			14.7	0.727 (S)	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		B	207	1.09 (S)	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			41.6	0.873 (S)	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	113	0.881 (S)	0.83	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			97.5	1.01 (S)	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 10-Feb-2011 14:43:03; Application: XMLTransformer-1.11.1;
Report Filename: 1668_PCB1668_PCBTF_WG35116-103_Form1A_PB1C_034S7_SJ1249745_Dry.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 1A

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	0.178 g (lipid)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg/g (lipid weight basis)	**% Moisture:**	78.4
		% Lipid:	1.69

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2-MoCB	1		B	20.0	4.74 (S)	3.29	1.001
3-MoCB	2		B	21.4	5.14 (S)	3.27	0.988
4-MoCB	3		K B	17.1	5.42 (S)	3.63	1.001
2,2'-DiCB	4			83.7	19.3 (S)	1.64	1.001
2,3-DiCB	5		U		12.7 (S)		
2,3'-DiCB	6			45.7	11.5 (S)	1.47	1.173
2,4-DiCB	7		U		11.7 (S)		
2,4'-DiCB	8		B	221	10.6 (S)	1.60	1.205
2,5-DiCB	9		K	16.1	11.2 (S)	1.03	1.144
2,6-DiCB	10		U		11.0 (S)		
3,3'-DiCB	11		B	539	11.9 (S)	1.57	0.969
3,4-DiCB	12	12 + 13	C U		11.9 (S)		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		11.4 (S)		
4,4'-DiCB	15		B	42.8	11.6 (S)	1.71	1.001
2,2',3-TriCB	16		B	150	10.6 (S)	1.04	1.165
2,2',4-TriCB	17		K B	116	9.26 (S)	1.25	1.137
2,2',5-TriCB	18	18 + 30	C B	567	7.84 (S)	1.06	1.112
2,2',6-TriCB	19			52.3	10.6 (S)	0.92	1.001
2,3,3'-TriCB	20	20 + 28	C B	4210	6.77 (S)	1.06	0.848
2,3,4-TriCB	21	21 + 33	C B	533	6.71 (S)	1.06	0.857
2,3,4'-TriCB	22		B	671	7.36 (S)	1.07	0.873
2,3,5-TriCB	23		U		7.24 (S)		
2,3,6-TriCB	24		U		7.36 (S)		
2,3',4-TriCB	25			164	6.12 (S)	1.11	0.825
2,3',5-TriCB	26	26 + 29	C B	409	6.95 (S)	1.05	1.300
2,3',6-TriCB	27			54.5	6.53 (S)	0.93	1.150
2,4,4'-TriCB	28	20 + 28	C20				
2,4,5-TriCB	29	26 + 29	C26				
2,4,6-TriCB	30	18 + 30	C18				
2,4',5-TriCB	31		B	2540	6.41 (S)	1.06	0.836
2,4',6-TriCB	32		B	132	6.59 (S)	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		7.13 (S)		
3,3',4-TriCB	35		U		7.13 (S)		
3,3',5-TriCB	36		U		6.47 (S)		
3,4,4'-TriCB	37		B	197	7.19 (S)	1.10	1.001
3,4,5-TriCB	38		K	7.42	6.65 (S)	1.46	0.968
3,4',5-TriCB	39		K	28.3	6.65 (S)	1.22	0.945

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1440	9.09 (S)	0.79	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1260	9.44 (S)	0.81	1.309
2,2',3,5-TeCB	43			103	10.3 (S)	0.81	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	8080	8.37 (S)	0.80	1.283
2,2',3,6-TeCB	45	45 + 51	C B	182	9.26 (S)	0.72	1.144
2,2',3,6'-TeCB	46			48.9	10.5 (S)	0.73	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48			250	9.26 (S)	0.85	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	3880	7.96 (S)	0.79	1.257
2,2',4,6-TeCB	50	50 + 53	C	238	9.14 (S)	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	7600	8.49 (S)	0.78	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		8.25 (S)		
2,3,3',4-TeCB	55		U		16.6 (S)		
2,3,3',4'-TeCB	56		B	1850	15.9 (S)	0.79	0.905
2,3,3',5-TeCB	57			92.0	15.6 (S)	0.78	0.844
2,3,3',5'-TeCB	58			74.2	15.6 (S)	0.81	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	677	7.07 (S)	0.76	1.300
2,3,4,4'-TeCB	60		B	2540	16.1 (S)	0.81	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	18900	15.2 (S)	0.79	0.875
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			790	14.8 (S)	0.79	0.864
2,3,4',6-TeCB	64		B	1910	6.65 (S)	0.80	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	10600	14.3 (S)	0.79	0.884
2,3',4,5-TeCB	67			214	13.8 (S)	0.74	0.855
2,3',4,5'-TeCB	68			368	15.0 (S)	0.75	0.830
2,3',4,6-TeCB	69	49 + 69	C49				
2,3',4',5-TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6-TeCB	71	40 + 41 + 71	C40				
2,3',5,5'-TeCB	72			426	14.5 (S)	0.76	0.822
2,3',5',6-TeCB	73		U		7.48 (S)		
2,4,4',5-TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6-TeCB	75	59 + 62 + 75	C59				
2',3,4,5-TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4'-TeCB	77		B	891	15.3 (S)	0.79	1.000
3,3',4,5-TeCB	78		U		15.4 (S)		
3,3',4,5'-TeCB	79			392	12.7 (S)	0.76	0.970
3,3',5,5'-TeCB	80		K	41.4	14.0 (S)	0.61	0.923
3,4,4',5-TeCB	81			35.0	16.6 (S)	0.75	1.001
2,2',3,3',4-PeCB	82			1820	17.4 (S)	1.56	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	42900	15.4 (S)	1.61	0.885
2,2',3,3',6-PeCB	84		B	1860	17.7 (S)	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	9740	13.3 (S)	1.55	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	17400	13.8 (S)	1.54	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C B	2320	16.0 (S)	1.62	1.155
2,2',3,4,6'-PeCB	89		K	45.6	16.6 (S)	1.83	1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	41000	14.0 (S)	1.61	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	8310	15.9 (S)	1.55	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	11200	15.6 (S)	1.58	1.122
2,2',3,5,6'-PeCB	94			64.7	17.3 (S)	1.43	1.103
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		7.48 (S)		
2,2',3',4,5-PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6-PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5-PeCB	99	83 + 99	C83				

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103			314	14.3 (S)	1.68	1.093
2,2',4,6,6'-PeCB	104		U		8.25 (S)		
2,3,3',4,4'-PeCB	105		B	16200	44.3 (S)	1.57	1.000
2,3,3',4,5-PeCB	106		U		45.1 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C	1070	48.0 (S)	1.47	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		B	5130	45.2 (S)	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	23200	12.0 (S)	1.54	0.925
2,3,3',5,5'-PeCB	111			211	12.0 (S)	1.64	0.944
2,3,3',5,6-PeCB	112		U		12.3 (S)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			873	49.3 (S)	1.63	1.001
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B	50500	47.8 (S)	1.57	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			819	11.3 (S)	1.55	0.958
2,3',4,5',6-PeCB	121			95.0	12.4 (S)	1.46	1.199
2',3,3',4,5-PeCB	122			228	50.5 (S)	1.52	1.010
2',3,4,4',5-PeCB	123			580	51.1 (S)	1.53	1.001
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126			240	50.7 (S)	1.61	1.000
3,3',4,5,5'-PeCB	127			95.6	47.3 (S)	1.72	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	14900	62.4 (S)	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	113000	62.4 (S)	1.25	0.929
2,2',3,3',4,5'-HxCB	130		B	6000	75.4 (S)	1.23	0.913
2,2',3,3',4,6-HxCB	131			271	71.9 (S)	1.32	1.161
2,2',3,3',4,6'-HxCB	132		B	8850	75.4 (S)	1.24	1.177
2,2',3,3',5,5'-HxCB	133		B	2950	68.9 (S)	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C B	2070	70.1 (S)	1.24	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	20500	11.1 (S)	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	1830	8.55 (S)	1.26	1.026
2,2',3,4,4',5-HxCB	137		B	2360	69.5 (S)	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1180	64.1 (S)	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		B	4360	67.1 (S)	1.25	0.903
2,2',3,4,5,6-HxCB	142		U		69.5 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		B	1470	11.4 (S)	1.23	1.123
2,2',3,4,6,6'-HxCB	145		U		9.09 (S)		
2,2',3,4',5,5'-HxCB	146		B	26200	60.0 (S)	1.27	0.883
2,2',3,4',5,6-HxCB	147	147 + 149	C B	35600	62.9 (S)	1.27	1.134
2,2',3,4',5,6'-HxCB	148			419	11.6 (S)	1.21	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			89.1	8.79 (S)	1.35	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		8.25 (S)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	136000	55.1 (S)	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			190	8.43 (S)	1.36	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B	6060	71.3 (S)	1.28	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	4570	49.4 (S)	1.27	0.938
2,3,3',4,5,5'-HxCB	159			290	54.1 (S)	1.16	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [1]	CONC. FOUND	REPORTING LIMIT (RL)[2]	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		52.0 (S)		
2,3,3',4',5,5'-HxCB	162			491	56.5 (S)	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		B	2390	53.7 (S)	1.25	0.921
2,3,3',5,5',6-HxCB	165			345	58.1 (S)	1.28	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		B	2980	49.7 (S)	1.24	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		78.4 (S)		
2,2',3,3',4,4',5-HpCB	170		B	9620	15.6 (S)	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C B	3870	15.9 (S)	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172		B	2330	15.8 (S)	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B	6350	15.6 (S)	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			891	14.8 (S)	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			1050	11.3 (S)	1.03	1.035
2,2',3,3',4',5,6-HpCB	177		B	11200	15.3 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		B	8140	15.0 (S)	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	4770	10.9 (S)	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	28100	12.8 (S)	1.02	0.910
2,2',3,4,4',5,6-HpCB	181		K	102	15.3 (S)	0.87	1.157
2,2',3,4,4',5,6'-HpCB	182			276	14.7 (S)	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	12600	14.8 (S)	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			144	10.8 (S)	0.98	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		11.8 (S)		
2,2',3,4',5,5',6-HpCB	187		B	48600	14.0 (S)	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			258	10.6 (S)	0.98	1.000
2,3,3',4,4',5,5'-HpCB	189			390	11.1 (S)	1.10	1.000
2,3,3',4,4',5,6-HpCB	190		B	1650	11.8 (S)	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			398	12.0 (S)	1.03	0.917
2,3,3',4,5,5',6-HpCB	192		U		13.2 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		B	3490	10.2 (S)	0.90	0.991
2,2',3,3',4,4',5,6-OcCB	195		B	1060	10.6 (S)	0.92	0.946
2,2',3,3',4,4',5,6'-OcCB	196		B	2470	10.7 (S)	0.87	0.916
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	784	8.43 (S)	0.94	1.046
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C B	7780	11.0 (S)	0.91	1.115
2,2',3,3',4,5,5',6'-OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OcCB	201			1550	8.43 (S)	0.88	1.023
2,2',3,3',5,5',6,6'-OcCB	202		B	4510	8.91 (S)	0.87	1.001
2,2',3,4,4',5,5',6-OcCB	203		B	3290	10.3 (S)	0.89	0.919
2,2',3,4,4',5,6,6'-OcCB	204			17.9	8.43 (S)	0.82	1.039
2,3,3',4,4',5,5',6-OcCB	205			189	9.32 (S)	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		B	2660	14.0 (S)	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			533	11.2 (S)	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208		B	1450	11.3 (S)	0.83	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1250	13.0 (S)	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

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

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Report Filename: 1668_PCB1668_PCBTF_WG35116-103_Form1A_PB1C_034S7_SJ1249745_Lipid.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

Form 2

PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Schoppee-10M (Duplicate)
Sample Collection:
N/A

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

Project No.	L13452		
Contract No.:	4574	**Lab Sample I.D.:**	WG35116-103 (DUP L15870-1)
Matrix:	TISSUE	**Sample Size:**	10.6 g (wet)
Sample Receipt Date:	14-Dec-2010	**Initial Calibration Date:**	24-Jan-2011
Extraction Date:	06-Jan-2011	**Instrument ID:**	HR GC/MS
Analysis Date:	26-Jan-2011 **Time:** 02:04:16	**GC Column ID:**	SPB OCTYL
Extract Volume (uL):	20	**Sample Data Filename:**	**PB1C_034 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	PB1C_034 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	PB1C_034 S: 1
Concentration Units:	pg absolute	**% Moisture:**	78.4
		% Lipid:	1.69

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.

LABELED COMPOUND	IUPAC NO. [1]	CO-ELUTIONS	LAB FLAG [2]	SPIKE CONC.	CONC. FOUND	R(%) [3]	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L			2000	676	33.8	3.20	0.720
13C12-4-MoCB	3L			2000	758	37.9	3.16	0.859
13C12-2,2'-DiCB	4L			2000	757	37.9	1.58	0.875
13C12-4,4'-DiCB	15L			2000	977	48.8	1.57	1.252
13C12-2,2',6-TriCB	19L			2000	957	47.9	1.04	1.073
13C12-3,4,4'-TriCB	37L			2000	1210	60.4	1.05	1.092
13C12-2,2',6,6'-TeCB	54L			2000	985	49.2	0.81	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1500	75.0	0.77	1.397
13C12-3,4,4',5-TeCB	81L			2000	1420	70.8	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1200	60.2	1.57	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	1670	83.7	1.55	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1500	74.8	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1550	77.5	1.58	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1520	75.8	1.57	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1660	82.8	1.56	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1220	60.9	1.21	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3070	76.7	1.26	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1540	77.0	1.26	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1580	79.0	1.27	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1730	86.5	1.06	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1760	88.2	1.02	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1550	77.6	1.03	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1630	81.4	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	1920	96.2	0.92	0.817
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	1620	81.2	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1650	82.6	0.79	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1650	82.6	0.78	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1630	81.4	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1100	54.8	1.04	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1510	75.5	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1660	82.9	1.04	1.012

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

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

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Report Filename: 1668_PCB1668_PCBTF_WG35116-103_Form2_PB1C_034S7_SJ1249745.html; Workgroup: WG35116; Design ID: 1193]

AXYS METHOD MLA-010 Rev 10

PCB CONGENER ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

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

Project No. L13452

Contract No.: 4574

Client ID: Schoppee-10M

Concentration Units: pg/g (wet weight basis)

COMPOUND	IUPAC NO.	L15870-1 (A) LAB FLAG [1]	L15870-1 (A) CONC. FOUND	WG35116-103 LAB FLAG [1]	WG35116-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2-MoCB	1	U			0.337		
3-MoCB	2	U			0.361		
4-MoCB	3	U		K	0.288		
2,2'-DiCB	4	U			1.41		
2,3-DiCB	5	U		U			
2,3'-DiCB	6	U			0.769		
2,4-DiCB	7	U		U			
2,4'-DiCB	8		3.48		3.73	3.61	6.96
2,5-DiCB	9	U		K	0.271		
2,6-DiCB	10	U		U			
3,3'-DiCB	11		8.87		9.07	8.97	2.24
3,4-DiCB	12	C U		C U			
3,4'-DiCB	13	C12		C12			
3,5-DiCB	14	U		U			
4,4'-DiCB	15	U			0.721		
2,2',3-TriCB	16		2.67		2.53	2.60	5.12
2,2',4-TriCB	17		2.20	K	1.96		
2,2',5-TriCB	18	C	10.3	C	9.55	9.93	7.71
2,2',6-TriCB	19	K	1.12		0.880		
2,3,3'-TriCB	20	C	75.1	C	70.9	73.0	5.73
2,3,4-TriCB	21	C	10.1	C	8.98	9.52	11.3
2,3,4'-TriCB	22		11.9		11.3	11.6	5.15
2,3,5-TriCB	23	U		U			
2,3,6-TriCB	24	U		U			
2,3',4-TriCB	25		2.90		2.76	2.83	5.06
2,3',5-TriCB	26	C	7.37	C	6.89	7.13	6.65
2,3',6-TriCB	27		1.18		0.918	1.05	24.6
2,4,4'-TriCB	28	C20		C20			
2,4,5-TriCB	29	C26		C26			
2,4,6-TriCB	30	C18		C18			
2,4',5-TriCB	31		44.4		42.7	43.6	3.94
2,4',6-TriCB	32		2.20		2.22	2.21	0.769
2',3,4-TriCB	33	C21		C21			
2',3,5-TriCB	34	U		U			
3,3',4-TriCB	35	U		U			
3,3',5-TriCB	36	U		U			
3,4,4'-TriCB	37		3.46		3.31	3.38	4.35
3,4,5-TriCB	38	U		K	0.125		
3,4',5-TriCB	39	U		K	0.476		
2,2',3,3'-TeCB	40	C	27.1	C	24.3	25.7	11.2
2,2',3,4-TeCB	41	C40		C40			
2,2',3,4'-TeCB	42		23.2		21.2	22.2	8.97
2,2',3,5-TeCB	43	K	1.77		1.73		
2,2',3,5'-TeCB	44	C	147	C	136	141	7.18
2,2',3,6-TeCB	45	C	3.11	C	3.07	3.09	1.29
2,2',3,6'-TeCB	46	K	0.656		0.824		
2,2',4,4'-TeCB	47	C44		C44			
2,2',4,5-TeCB	48		4.69		4.21	4.45	10.6
2,2',4,5'-TeCB	49	C	70.5	C	65.4	67.9	7.42
2,2',4,6-TeCB	50	C	4.57	C	4.00	4.28	13.1
2,2',4,6'-TeCB	51	C45		C45			
2,2',5,5'-TeCB	52		137		128	132	6.96
2,2',5,6'-TeCB	53	C50		C50			
2,2',6,6'-TeCB	54	U		U			
2,3,3',4-TeCB	55	U		U			
2,3,3',4'-TeCB	56		32.2		31.1	31.7	3.48
2,3,3',5-TeCB	57	K	1.74		1.55		
2,3,3',5'-TeCB	58	U			1.25		
2,3,3',6-TeCB	59	C	12.3	C	11.4	11.9	7.61
2,3,4,4'-TeCB	60		43.5		42.8	43.2	1.60

COMPOUND	IUPAC NO.	L15870-1 (A) LAB FLAG [1]	L15870-1 (A) CONC. FOUND	WG35116-103 LAB FLAG [1]	WG35116-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,3,4,5-TeCB	61	C	339	C	319	329	6.19
2,3,4,6-TeCB	62	C59		C59			
2,3,4',5-TeCB	63		13.6		13.3	13.4	1.92
2,3,4',6-TeCB	64		34.5		32.1	33.3	7.11
2,3,5,6-TeCB	65	C44		C44			
2,3',4,4'-TeCB	66		193		179	186	7.54
2,3',4,5-TeCB	67		3.73		3.60	3.67	3.44
2,3',4,5'-TeCB	68		6.34		6.20	6.27	2.15
2,3',4,6-TeCB	69	C49		C49			
2,3',4',5-TeCB	70	C61		C61			
2,3',4',6-TeCB	71	C40		C40			
2,3',5,5'-TeCB	72		6.80		7.18	6.99	5.42
2,3',5',6-TeCB	73	U		U			
2,4,4',5-TeCB	74	C61		C61			
2,4,4',6-TeCB	75	C59		C59			
2',3,4,5-TeCB	76	C61		C61			
3,3',4,4'-TeCB	77		13.9		15.0	14.4	7.79
3,3',4,5-TeCB	78	U		U			
3,3',4,5'-TeCB	79		6.33		6.60	6.46	4.18
3,3',5,5'-TeCB	80	U		K	0.698		
3,4,4',5-TeCB	81	U			0.589		
2,2',3,3',4-PeCB	82		30.6		30.7	30.7	0.466
2,2',3,3',5-PeCB	83	C	733	C	722	728	1.51
2,2',3,3',6-PeCB	84		33.8		31.4	32.6	7.18
2,2',3,4,4'-PeCB	85	C	163	C	164	164	0.767
2,2',3,4,5-PeCB	86	C	295	C	293	294	0.613
2,2',3,4,5'-PeCB	87	C86		C86			
2,2',3,4,6-PeCB	88	C	39.8	C	39.1	39.5	1.67
2,2',3,4,6'-PeCB	89	U		K	0.768		
2,2',3,4',5-PeCB	90	C	698	C	690	694	1.14
2,2',3,4',6-PeCB	91	C88		C88			
2,2',3,5,5'-PeCB	92		142		140	141	1.68
2,2',3,5,6-PeCB	93	C	195	C	188	191	3.72
2,2',3,5,6'-PeCB	94	K	1.26		1.09		
2,2',3,5',6-PeCB	95	C93		C93			
2,2',3,6,6'-PeCB	96	U		U			
2,2',3',4,5-PeCB	97	C86		C86			
2,2',3',4,6-PeCB	98	C93		C93			
2,2',4,4',5-PeCB	99	C83		C83			
2,2',4,4',6-PeCB	100	C93		C93			
2,2',4,5,5'-PeCB	101	C90		C90			
2,2',4,5,6'-PeCB	102	C93		C93			
2,2',4,5',6-PeCB	103		5.67		5.29	5.48	6.94
2,2',4,6,6'-PeCB	104	U		U			
2,3,3',4,4'-PeCB	105		277		273	275	1.38
2,3,3',4,5-PeCB	106	U		U			
2,3,3',4',5-PeCB	107	C	17.7	C	18.1	17.9	2.23
2,3,3',4,5'-PeCB	108	C86		C86			
2,3,3',4,6-PeCB	109		85.6		86.4	86.0	0.904
2,3,3',4',6-PeCB	110	C	399	C	391	395	2.16
2,3,3',5,5'-PeCB	111		3.59		3.56	3.58	0.839
2,3,3',5,6-PeCB	112	U		U			
2,3,3',5',6-PeCB	113	C90		C90			
2,3,4,4',5-PeCB	114		14.9		14.7	14.8	1.87
2,3,4,4',6-PeCB	115	C110		C110			
2,3,4,5,6-PeCB	116	C85		C85			
2,3,4',5,6-PeCB	117	C85		C85			
2,3',4,4',5-PeCB	118		835		850	843	1.75
2,3',4,4',6-PeCB	119	C86		C86			
2,3',4,5,5'-PeCB	120		14.5		13.8	14.1	4.99
2,3',4,5',6-PeCB	121	K	1.62		1.60		
2',3,3',4,5-PeCB	122		4.39		3.84	4.11	13.3
2',3,4,4',5-PeCB	123		9.56		9.76	9.66	2.06
2',3,4,5,5'-PeCB	124	C107		C107			
2',3,4,5,6'-PeCB	125	C86		C86			
3,3',4,4',5-PeCB	126		3.81		4.05	3.93	6.03
3,3',4,5,5'-PeCB	127	U			1.61		
2,2',3,3',4,4'-HxCB	128	C	245	C	251	248	2.35
2,2',3,3',4,5-HxCB	129	C	1840	C	1900	1870	3.09

COMPOUND	IUPAC NO.	L15870-1 (A) LAB FLAG [1]	L15870-1 (A) CONC. FOUND	WG35116-103 LAB FLAG [1]	WG35116-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,2',3,3',4,5'-HxCB	130		97.5		101	99.2	3.42
2,2',3,3',4,6-HxCB	131		4.95		4.57	4.76	8.01
2,2',3,3',4,6'-HxCB	132		143		149	146	4.08
2,2',3,3',5,5'-HxCB	133		49.1		49.7	49.4	1.29
2,2',3,3',5,6-HxCB	134	C	36.6	C	34.9	35.8	4.71
2,2',3,3',5,6'-HxCB	135	C	350	C	346	348	1.21
2,2',3,3',6,6'-HxCB	136		31.4		30.9	31.1	1.48
2,2',3,4,4',5-HxCB	137		39.9		39.8	39.8	0.412
2,2',3,4,4',5'-HxCB	138	C129		C129			
2,2',3,4,4',6-HxCB	139	C	19.3	C	19.8	19.5	2.45
2,2',3,4,4',6'-HxCB	140	C139		C139			
2,2',3,4,5,5'-HxCB	141		73.7		73.4	73.6	0.478
2,2',3,4,5,6-HxCB	142	U		U			
2,2',3,4,5,6'-HxCB	143	C134		C134			
2,2',3,4,5',6-HxCB	144		25.0		24.7	24.8	1.28
2,2',3,4,6,6'-HxCB	145	U		U			
2,2',3,4',5,5'-HxCB	146		433		441	437	1.90
2,2',3,4',5,6-HxCB	147	C	590	C	599	595	1.61
2,2',3,4',5,6'-HxCB	148		7.27		7.05	7.16	3.09
2,2',3,4',5',6-HxCB	149	C147		C147			
2,2',3,4',6,6'-HxCB	150	K	1.75		1.50		
2,2',3,5,5',6-HxCB	151	C135		C135			
2,2',3,5,6,6'-HxCB	152	U		U			
2,2',4,4',5,5'-HxCB	153	C	2230	C	2290	2260	2.69
2,2',4,4',5,6'-HxCB	154	C135		C135			
2,2',4,4',6,6'-HxCB	155		3.26		3.20	3.23	2.04
2,3,3',4,4',5-HxCB	156	C	101	C	102	101	1.03
2,3,3',4,4',5'-HxCB	157	C156		C156			
2,3,3',4,4',6-HxCB	158		77.3		76.9	77.1	0.532
2,3,3',4,5,5'-HxCB	159		5.10		4.89	4.99	4.31
2,3,3',4,5,6-HxCB	160	C129		C129			
2,3,3',4,5',6-HxCB	161	U		U			
2,3,3',4',5,5'-HxCB	162		8.11		8.27	8.19	1.93
2,3,3',4',5,6-HxCB	163	C129		C129			
2,3,3',4',5',6-HxCB	164		41.5		40.3	40.9	2.89
2,3,3',5,5',6-HxCB	165		5.40		5.81	5.60	7.19
2,3,4,4',5,6-HxCB	166	C128		C128			
2,3',4,4',5,5'-HxCB	167		49.5		50.2	49.9	1.42
2,3',4,4',5',6-HxCB	168	C153		C153			
3,3',4,4',5,5'-HxCB	169	U		U			
2,2',3,3',4,4',5-HpCB	170		153		162	158	5.49
2,2',3,3',4,4',6-HpCB	171	C	62.8	C	65.1	64.0	3.66
2,2',3,3',4,5,5'-HpCB	172		39.0		39.2	39.1	0.583
2,2',3,3',4,5,6-HpCB	173	C171		C171			
2,2',3,3',4,5,6'-HpCB	174		103		107	105	3.83
2,2',3,3',4,5',6-HpCB	175		14.9		15.0	15.0	0.955
2,2',3,3',4,6,6'-HpCB	176		17.2		17.7	17.4	3.16
2,2',3,3',4',5,6-HpCB	177		177		189	183	6.60
2,2',3,3',5,5',6-HpCB	178		131		137	134	4.50
2,2',3,3',5,6,6'-HpCB	179		76.6		80.4	78.5	4.81
2,2',3,4,4',5,5'-HpCB	180	C	447	C	474	460	5.85
2,2',3,4,4',5,6-HpCB	181	K	1.41	K	1.71		
2,2',3,4,4',5,6'-HpCB	182		4.20		4.65	4.43	10.1
2,2',3,4,4',5',6-HpCB	183	C	204	C	213	208	4.28
2,2',3,4,4',6,6'-HpCB	184		2.19		2.43	2.31	10.5
2,2',3,4,5,5',6-HpCB	185	C183		C183			
2,2',3,4,5,6,6'-HpCB	186	U		U			
2,2',3,4',5,5',6-HpCB	187		764		819	791	6.93
2,2',3,4',5,6,6'-HpCB	188		4.06		4.35	4.20	6.95
2,3,3',4,4',5,5'-HpCB	189		6.56		6.57	6.56	0.091
2,3,3',4,4',5,6-HpCB	190		27.9		27.8	27.9	0.582
2,3,3',4,4',5',6-HpCB	191		6.00		6.70	6.35	11.0
2,3,3',4,5,5',6-HpCB	192	U		U			
2,3,3',4',5,5',6-HpCB	193	C180		C180			
2,2',3,3',4,4',5,5'-OcCB	194		61.4		58.8	60.1	4.27
2,2',3,3',4,4',5,6-OcCB	195		18.8		17.9	18.3	4.84
2,2',3,3',4,4',5,6'-OcCB	196		41.3		41.6	41.5	0.654
2,2',3,3',4,4',6,6'-OcCB	197	C	13.0	C	13.2	13.1	1.79
2,2',3,3',4,5,5',6-OcCB	198	C	130	C	131	130	0.216

COMPOUND	IUPAC NO.	L15870-1 (A) LAB FLAG [1]	L15870-1 (A) CONC. FOUND	WG35116-103 LAB FLAG [1]	WG35116-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,2',3,3',4,5,5',6'-OcCB	199	C198		C198			
2,2',3,3',4,5,6,6'-OcCB	200	C197		C197			
2,2',3,3',4,5',6,6'-OcCB	201		25.8		26.1	26.0	1.14
2,2',3,3',5,5',6,6'-OcCB	202		77.9		75.9	76.9	2.50
2,2',3,4,4',5,5',6-OcCB	203		60.7		55.4	58.0	9.06
2,2',3,4,4',5,6,6'-OcCB	204	U			0.301		
2,3,3',4,4',5,5',6-OcCB	205		3.27		3.19	3.23	2.45
2,2',3,3',4,4',5,5',6-NoCB	206		44.8		44.8	44.8	0.002
2,2',3,3',4,4',5,6,6'-NoCB	207		8.80		8.97	8.89	1.99
2,2',3,3',4,5,5',6,6'-NoCB	208		23.5		24.4	24.0	3.59
2,2',3,3',4,4',5,5',6,6'-DeCB	209		20.6		21.0	20.8	1.73

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.

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

Signed: _____Alina Tarnauceanu_____

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.

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Table 1
NELAP Accreditation Held by AXYS Analytical Services Ltd.

Matrix Codes for Table 1

NPW = Non-Potable Water
DrW = Drinking Water
S = Solid
T = Tissue

Accreditation Method Codes and Explanation for Table 1

Code No.	Accreditation Certificate Method Reference	Applicable AXYS Method and Description
1	EPA 1613B	MLA-017, performance based implementation of EPA1613B (GC/HRMS)
2	EPA 8290	MLA-017, performance based implementation of EPA 8290 (GC/HRMS)
3	AXYS MLA-017	MLA-017, performance based implementation of EPA 1613B, 8290 (GC/HRMS)
4	EPA 608	MLA-007, performance based implementation of EPA 608 (GC/ECD)
5	EPA 8270C	MLA-007, performance based **modification** of 8270C (GC/LRMS)
6	EPA 8081A	MLA-007, performance based implementation of EPA 8081A (GC/ECD)
7	EPA 1668A	MLA-010, performance based implementation of EPA 1668A (GC/HRMS)
8	SM 6630B	MLA-007, performance based implementation of SM 18-20 6630B (GC/ECD)
9	EPA 1625B	MLA-021, performance based **modification** of EPA 1625B (GC/LRMS)
11	EPA 625	MLA-007, performance based **modification** of EPA 625 (GC/LRMS)
12	AXYS MLA-041	MLA-041, laboratory performance based method (LC/MS-MS)
13	AXYS MLA-043	MLA-043, laboratory performance based method (LC/MS-MS)
14	AXYS MLA-060	MLA-060, laboratory performance based method (LC/MS-MS)
20	EPA 8270C	MLA-021, performance based **modification** of EPA 8270C (GC/LRMS)

TABLE 1	**New York State Department of Health**		**California Department of Public Health**		**State of Florida Department of Health**				**State of New Jersey Department of Environmental Protection**			
	Lab ID 11674 NELAP Primary		Lab ID 01138CA NELAP Secondary		Lab ID E871007 NELAP Primary				Lab ID CANA005 NELAP Secondary			
	NPW	**S**	**NPW**	**S**	**Dr. W**	**NPW**	**S**	**T**	**Dr. W**	**NPW**	**S**	**T**
PCDD/F - Polychlorinated Dioxins and Furans												
Dioxins			1									
Dioxins and Dibenzofurans				2								
1,2,3,4,6,7,8-HpCDD			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,4,6,7,8-HpCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,4,7,8,9-HpCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,4,7,8-HxCDD			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,4,7,8-HxCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2

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TABLE 1	New York State Department of Health		California Department of Public Health		State of Florida Department of Health				State of New Jersey Department of Environmental Protection			
	Lab ID 11674 NELAP Primary		Lab ID 01138CA NELAP Secondary		Lab ID E871007 NELAP Primary				Lab ID CANA005 NELAP Secondary			
	NP W	S	NP W	S	Dr. W	NP W	S	T	Dr. W	NP W	S	T
1,2,3,6,7,8-HxCDD			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,6,7,8-HxCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,7,8,9-HxCDD			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,7,8,9-HxCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,7,8-PeCDD			1	2		1, 2, 3	2, 3	2, 3		1	2	2
1,2,3,7,8-PeCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
2,3,4,6,7,8-HxCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
2,3,4,7,8-PeCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
2,3,7,8-TCDD	1		1	2		1, 2, 3	2, 3	2, 3		1	2	2
2,3,7,8-TCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
OCDD			1	2		1, 2, 3	2, 3	2, 3		1	2	2
OCDF			1	2		1, 2, 3	2, 3	2, 3		1	2	2
Total TCDD			1			1, 2, 3	2, 3	2, 3			2	2
Total TCDF			1			1, 2, 3	2, 3	2, 3			2	2
Total PeCDD			1			1, 2, 3	2, 3	2, 3			2	2
Total PeCDF			1			1, 2, 3	2, 3	2, 3			2	2
Total HxCDD			1			1, 2, 3	2, 3	2, 3			2	2
Total HxCDF			1			1, 2, 3	2, 3	2, 3			2	2
Total HpCDD			1			1, 2, 3	2, 3	2, 3			2	2
Total HpCDF			1			1, 2, 3	2, 3	2, 3			2	2
PCBs – Polychlorinated biphenyls												
PCB 1 2-Chlorobiphenyl	7	7								7	7	
PCB 3 4-Chlorobiphenyl	7	7								7	7	
PCB 4 2,2'-Dichlorobiphenyl	7	7								7	7	
PCB 5 2,3-Dichlorobiphenyl	7	7								7	7	
PCB 15 4,4'-Dichlorobiphenyl	7	7								7	7	
PCB 18 2,2',5-Trichlorobiphenyl	7	7								7	7	
PCB 19 2,2',6-Trichlorobiphenyl	7	7								7	7	
PCB 31 2,4',5-Trichlorobiphenyl	7	7								7	7	
PCB 37 3,4,4'-Trichlorobiphenyl	7	7								7	7	
PCB 44 2,2',3,5'-Tetrachlorobiphenyl	7	7								7	7	
PCB 52 2,2',5,5'-Tetrachlorobiphenyl	7	7								7	7	
PCB 54 2,2',6,6'-Tetrachlorobiphenyl	7	7								7	7	
PCB 66 2,3',4,4'-Tetrachlorobiphenyl	7	7								7	7	
PCB 77 3,3',4,4'-Tetrachlorobiphenyl	7	7								7	7	
PCB 81 3,4,4',5-Tetrachlorobiphenyl	7	7								7	7	

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TABLE 1		New York State Department of Health		California Department of Public Health		State of Florida Department of Health				State of New Jersey Department of Environmental Protection			
		Lab ID 11674 NELAP Primary		Lab ID 01138CA NELAP Secondary		Lab ID E871007 NELAP Primary				Lab ID CANA005 NELAP Secondary			
		NP W	S	NP W	S	Dr. W	NP W	S	T	Dr. W	NP W	S	T
PCB 87	2,2',3,4,5'-Pentachlorobiphenyl	7	7								7	7	
PCB 101	2,2',4,5,5'-Pentachlorobiphenyl	7	7								7	7	
PCB 104	2,2',4,6,6'-Pentachlorobiphenyl	7	7								7	7	
PCB 105	2,3,3',4,4'-Pentachlorobiphenyl	7	7								7	7	
PCB 109	2,3,3',4,6-Pentachlorobiphenyl	7	7								7	7	
PCB 114	2,3,4,4',5-Pentachlorobiphenyl	7	7								7	7	
PCB 118	2,3',4,4',5-Pentachlorobiphenyl	7	7								7	7	
PCB 123	2,3',4,4',5'-Pentachlorobiphenyl	7	7								7	7	
PCB 124	2,3',4',5,5'-Pentachlorobiphenyl										7	7	
PCB 126	3,3',4,4',5-Pentachlorobiphenyl	7	7								7	7	
PCB 138	2,2',3,4,4',5'-Hexachlorobiphenyl	7	7								7	7	
PCB 141	2,2',3,4,5,5'-Hexachlorobiphenyl	7	7								7	7	
PCB 151	2,2',3,5,5',6-Hexachlorobiphenyl	7	7								7	7	
PCB 153	2,2',4,4',5,5'-Hexachlorobiphenyl	7	7								7	7	
PCB 155	2,2',4,4',6,6'-Hexachlorobiphenyl	7	7								7	7	
PCB 156	2,3,3',4,4',5-Hexachlorobiphenyl		7								7		
PCB 157	2,3,3',4,4',5'-Hexachlorobiphenyl	7	7								7	7	
PCB 167	2,3',4,4',5,5'-Hexachlorobiphenyl	7	7								7	7	
PCB 169	3,3',4,4',5,5'-Hexachlorobiphenyl	7	7								7	7	
PCB 170	2,2',3,3',4,4',5-Heptachlorobiphenyl	7	7								7	7	
PCB 180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	7	7								7	7	
PCB 183	2,2',3,4,4',5',6-Heptachlorobiphenyl	7	7								7	7	
PCB 187	2,2',3,4',5,5',6-Heptachlorobiphenyl	7	7								7	7	
PCB 188	2,2',3,4',5,6,6'-Heptachlorobiphenyl	7	7								7	7	
PCB 189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	7	7								7	7	
PCB 202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	7	7								7	7	
PCB 205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	7	7								7		
PCB 206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	7	7								7	7	
PCB 208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	7	7								7	7	
PCB 209	Decachlorobiphenyl	7	7								7	7	
Aroclor 1260		7, 11	5, 7	11	5								
Aroclor 1254		7, 11	5, 7	11	5								
Aroclor 1221		7, 11	5, 7	11	5								
Aroclor 1232		7, 11	5, 7	11	5								
Aroclor 1248		7, 11	5, 7	11	5								
Aroclor 1016		7, 11	5, 7	11	5								
Aroclor 1242		7, 11	5, 7	11	5								

AXYS Analytical Services Ltd.

TABLE 1	New York State Department of Health		California Department of Public Health		State of Florida Department of Health				State of New Jersey Department of Environmental Protection			
	Lab ID 11674 NELAP Primary		Lab ID 01138CA NELAP Secondary		Lab ID E871007 NELAP Primary				Lab ID CANA005 NELAP Secondary			
	NP W	S	NP W	S	Dr. W	NP W	S	T	Dr. W	NP W	S	T
Pesticides												
4,4'-DDD	11	5	11	5								
4,4'-DDE	11	5	11	5								
4,4'-DDT	11	5	11	5								
Aldrin	11	5	11	5								
Alpha-HCH	11	5	11	5								
Beta-HCH	11	5	11	5								
cis-Chlordane (alpha-Chlordane)	5	5										
Chlordane, technical	11	5	11	5								
Delta-HCH	11	5	11	5								
Dieldrin	4	6	4	6								
Endosulphan I	4	6	4	6								
Endosulphan II	4	6	4	6								
Endosulphan sulphate	4	6	4	6								
Endrin	4	6	4	6								
Endrin aldehyde	4	6	4	6								
trans-Chlordane (gamma-Chlordane)	5	5										
Gamma-HCH (Lindane)	11	5	11	5								
Heptachlor	11	5	11	5								
Heptachlor epoxide	4	6	4	6								
Hexachlorobenzene	9	5	9	5								
Methoxychlor	4,8	6	8	6								
Mirex	5											
PFC – Perfluorinated Organic Compounds												
Perfluorobutanoate (PFBA)					14	14	12	13				
Perfluoropentanoate (PFPeA)					14	14	12	13				
Perfluorohexanoate (PFHxA)					14	14	12	13				
Perfluoroheptanoate (PFHpA)					14	14	12	13				
Perfluorooctanoate (PFOA)					14	14	12	13	14	14	12	13
Perfluorononanoate (PFNA)					14	14	12	13				
Perfluorodecanoate (PFDA)					14	14	12	13				
Perfluoroundecanoate (PFUnA)					14	14	12	13				
Perfluorododecanoate (PFDoA)					14	14	12	13				
Perfluorobutanesulfonate (PFBS)					14	14	12	13				

AXYS Analytical Services Ltd.

TABLE 1	New York State Department of Health		California Department of Public Health		State of Florida Department of Health				State of New Jersey Department of Environmental Protection			
	Lab ID 11674 NELAP Primary		Lab ID 01138CA NELAP Secondary		Lab ID E871007 NELAP Primary				Lab ID CANA005 NELAP Secondary			
	NP W	S	NP W	S	Dr. W	NP W	S	T	Dr. W	NP W	S	T
Perfluorohexanesulfonate (PFHxS)					14	14	12	13				
Perfluorooctanesulfonate (PFOS)					14	14	12	13	14	14	12	13
Perfluorooctane sulfonamide (PFOSA)					14	14	12	13				
PAH												
Anthracene	9	20	9	20								
Pyrene	9	20	9	20								
Benzo[ghi]perylene	9	20	9	20								
Indeno[1,2,3-cd]pyrene	9	20	9	20								
Benzo[b]fluoranthene	9	20	9	20								
Fluoranthene	9	20	9	20								
Benzo[k]fluoranthene	9	20	9	20								
Acenaphthylene	9	20	9	20								
Chrysene	9	20	9	20								
Benzo[a]pyrene	9	20	9	20								
Dibenz[ah]anthracene	9	20	9	20								
Benz[a]anthracene	9	20	9	20								
Acenaphthene	9	20	9	20								
Phenanthrene	9	20	9	20								
Fluorene	9	20	9	20								
Naphthalene	9	20	9	20								

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Table 2:
Canadian and US State Specific Accreditation Held by AXYS Analytical Services Ltd.

Matrix Codes for Table 2

NP W = Non-Potable Water
Dr. W = Drinking Water
W = Aqueous
S = Solid
T = Tissue

Accreditation Method Codes and Explanation for Table 2

Code No.	Accreditation Certificate Method Reference	Applicable AXYS Method and Description
1	EPA 1613	MLA-017 Performance based implementation of EPA 1613B (GC/HRMS)
3	AXYS MLA-017	MLA-017 Performance based implementation of EPA 1613B (GC/HRMS)
7	EPA 1668A	MLA-010 Performance based implementation of EPA 1668A (GC/HRMS)
10	AXYS MLA-007	MLA-007, Performance based **modification** of EPA 8270C, 8081A (GC/LRMS and GC/ECD)
12	AXYS MLA-041	MLA-041 Laboratory performance based method (LC/MS-MS)
13	AXYS MLA-043	MLA-043 Laboratory performance based method (LC/MS-MS)
14	AXYS MLA-060	MLA-060 Laboratory performance based method (LC/MS-MS)
15	AXYS MLA-010	MLA-010 Performance based implementation of EPA 1668A (GC/HRMS)
16	AXYS MLA-028	MLA-028 Laboratory performance based method (GC/HRMS)
17	AXYS MLA-033	MLA-033 Performance based implementation of EPA 1614 (GC/HRMS)
18	AXYS MLA-021	MLA-021 Performance based **modification** of EPA 8270C (GC/LRMS)
19	AXYS MLA-075	MLA-075 Performance based implementation of EPA 1694 (LC/MS-MS)

TABLE 2	Canadian Association for Laboratory Accreditation (CALA)			Washington State Department of Ecology		Minnesota Department of Health	
	Accreditation No.: A 2637			Lab. ID: C404		LAB ID: 232-99-430	
	W	S	T	NP W	S	Dr. W	NP W
PCDD/F - Polychlorinated Dioxins and Furans							
1,2,3,4,6,7,8-HpCDD	3	3	3	1	1		
1,2,3,4,6,7,8-HpCDF	3	3	3	1	1		
1,2,3,4,7,8,9-HpCDF	3	3	3	1	1		
1,2,3,4,7,8-HxCDD	3	3	3	1	1		
1,2,3,4,7,8-HxCDF	3	3	3	1	1		
1,2,3,6,7,8-HxCDD	3	3	3	1	1		
1,2,3,6,7,8-HxCDF	3	3	3	1	1		
1,2,3,7,8,9-HxCDD	3	3	3	1	1		
1,2,3,7,8,9-HxCDF	3	3	3	1	1		
1,2,3,7,8-PeCDD	3	3	3	1	1		
1,2,3,7,8-PeCDF	3	3	3	1	1		
2,3,4,6,7,8-HxCDF	3	3	3	1	1		
2,3,4,7,8-PeCDF	3	3	3	1	1		
2,3,7,8-TCDD	3	3	3	1	1		
2,3,7,8-TCDF	3	3	3	1	1		
OCDD	3	3	3	1	1		
OCDF	3	3	3	1	1		
Total TCDD				1	1		
Total TCDF				1	1		
Total PeCDD				1	1		
Total PeCDF				1	1		
Total HxCDD				1	1		

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Total HxCDF					1	1		
Total HpCDD					1	1		
Total HpCDF					1	1		
Total PCDD					1	1		
Total PCDF					1	1		
Total PCDD + PCDF					1	1		
PCBs – Polychlorinated biphenyls								
PCB 1	2-Chlorobiphenyl	15	15	15	7	7		
PCB 2	3-Chlorobiphenyl	15	15	15	7	7		
PCB 3	4-Chlorobiphenyl	15	15	15	7	7		
PCB 4	2,2'-Dichlorobiphenyl	15	15	15	7	7		
PCB 5	2,3-Dichlorobiphenyl	15	15	15	7	7		
PCB 6	2,3'-Dichlorobiphenyl	15	15	15	7	7		
PCB 7	2,4-Dichlorobiphenyl	15	15	15	7	7		
PCB 8	2,4'-Dichlorobiphenyl	15	15	15	7	7		
PCB 8/5		10	10	10				
PCB 9	2,5-Dichlorobiphenyl	15	15	15	7	7		
PCB 10	2,6-Dichlorobiphenyl	15	15	15	7	7		
PCB 11	3,3'-Dichlorobiphenyl	15	15	15	7	7		
PCB 12	3,4-Dichlorobiphenyl	15	15	15	7	7		
PCB 13	3,4'-Dichlorobiphenyl	15	15	15	7	7		
PCB 14	3,5-Dichlorobiphenyl	15	15	15	7	7		
PCB 15	4,4'-Dichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 16	2,2',3-Trichlorobiphenyl	15	15	15	7	7		
PCB 16/32		10	10	10				
PCB 17	2,2',4-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 18	2,2',5-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 19	2,2',6-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 20	2,3,3'-Trichlorobiphenyl	15	15	15	7	7		
PCB 21	2,3,4-Trichlorobiphenyl	15	15	15	7	7		
PCB 22	2,3,4'-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 23	2,3,5-Trichlorobiphenyl	15	15	15	7	7		
PCB 24	2,3,6-Trichlorobiphenyl	15	15	15	7	7		
PCB 24/27		10	10	10				
PCB 25	2,3',4-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 26	2,3',5-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 27	2,3',6-Trichlorobiphenyl	15	15	15	7	7		
PCB 28	2,4,4'-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 29	2,4,5-Trichlorobiphenyl	15	15	15	7	7		
PCB 30	2,4,6-Trichlorobiphenyl	15	15	15	7	7		
PCB 31	2,4',5-Trichlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 32	2,4',6-Trichlorobiphenyl	15	15	15	7	7		
PCB 33	2,3',4'-Trichlorobiphenyl	15	15	15	7	7		
PCB 33/20/21		18	10	10				
PCB 34	2,3',5'-Trichlorobiphenyl	15	15	15	7	7		
PCB 35	3,3',4-Trichlorobiphenyl	15	15	15	7	7		
PCB 36	3,3',5-Trichlorobiphenyl	15	15	15	7	7		
PCB 37	3,4,4'-Trichlorobiphenyl	15	15	15	7	7		
PCB 38	3,4,5-Trichlorobiphenyl	15	15	15	7	7		
PCB 39	3,4',5-Trichlorobiphenyl	15	15	15	7	7		
PCB 40	2,2',3,3'-Tetrachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 41	2,2',3,4-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 41/71/64/68		10	10	10				
PCB 42	2,2',3,4'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 42/59		10	10	10				
PCB 43	2,2',3,5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 44	2,2',3,5'-Tetrachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 45	2,2',3,6-Tetrachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 46	2,2',3,6'-Tetrachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 47	2,2',4,4'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 47/48/75		10	10	10				
PCB 48	2,2',4,5-Tetrachlorobiphenyl	15	15	15	7	7		

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PCB 49	2,2',4,5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 49/43		10	10	10				
PCB 50	2,2',4,6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 51	2,2',4,6'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 52	2,2',5,5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 52/73		10	10	10				
PCB 53	2,2',5,6'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 54	2,2',6,6'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 55	2,3,3',4-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 56	2,3,3',4'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 56/60		10	10	10				
PCB 57	2,3,3',5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 58	2,3,3',5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 59	2,3,3',6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 60	2,3,4,4'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 61	2,3,4,5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 62	2,3,4,6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 63	2,3,4',5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 64	2,3,4',6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 65	2,3,5,6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 66	2,3',4,4'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 66/80		10	10	10				
PCB 67	2,3',4,5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 68	2,3',4,5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 69	2,3',4,6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 70	2,3',4',5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 70/76		10	10	10				
PCB 71	2,3',4',6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 72	2,3',5,5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 73	2,3',5',6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 74	2,4,4',5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 74/61		10	10	10				
PCB 75	2,4,4',6-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 76	2,3',4',5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 77	3,3',4,4'-Tetrachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 78	3,3',4,5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 79	3,3',4,5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 80	3,3',5,5'-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 81	3,4,4',5-Tetrachlorobiphenyl	15	15	15	7	7		
PCB 82	2,2',3,3',4-Pentachlorobiphenyl	15	15	15	7	7		
PCB 83	2,2',3,3',5-Pentachlorobiphenyl	15	15	15	7	7		
PCB 83/108		10	10	10				
PCB 84	2,2',3,3',6-Pentachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 85	2,2',3,4,4'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 85/120		10	10	10				
PCB 86	2,2',3,4,5-Pentachlorobiphenyl	15	15	15	7	7		
PCB 87	2,2',3,4,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 87/115/116		10	10	10				
PCB 88	2,2',3,4,6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 89	2,2',3,4,6'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 90	2,2',3,4',5-Pentachlorobiphenyl	15	15	15	7	7		
PCB 91	2,2',3,4',6-Pentachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 92	2,2',3,5,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 93	2,2',3,5,6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 94	2,2',3,5,6'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 95	2,2',3,5',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 95/93		10	10	10				
PCB 96	2,2',3,6,6'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 97	2,2',3,4',5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 97/86		10	10	10				
PCB 98	2,2',3,4',6'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 99	2,2',4,4',5-Pentachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 100	2,2',4,4',6-Pentachlorobiphenyl	15	15	15	7	7		

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PCB 101	2,2',4,5,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 101/90/89		10	10	10				
PCB 102	2,2',4,5,6'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 103	2,2',4,5',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 104	2,2',4,6,6'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 105	2,3,3',4,4'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 105/127		10	10	10				
PCB 106	2,3,3',4,5-Pentachlorobiphenyl	15	15	15	7	7		
PCB 107	2,3,3',4',5-Pentachlorobiphenyl	15	15	15	7	7		
PCB 107/109		10	10	10				
PCB 108	2,3,3',4,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 109	2,3,3',4,6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 110	2,3,3',4',6-Pentachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 111	2,3,3',5,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 112	2,3,3',5,6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 113	2,3,3',5',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 114	2,3,4,4',5-Pentachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 115	2,3,4,4',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 116	2,3,4,5,6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 117	2,3,4',5,6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 118	2,3',4,4',5-Pentachlorobiphenyl	15	15	15	7	7		
PCB 118/116		10	10	10				
PCB 119	2,3',4,4',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 120	2,3',4,5,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 121	2,3',4,5',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 122	2,3,3',4',5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 123	2,3',4,4',5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 124	2,3',4',5,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 125	2,3',4',5',6-Pentachlorobiphenyl	15	15	15	7	7		
PCB 126	3,3',4,4',5-Pentachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 127	3,3',4,5,5'-Pentachlorobiphenyl	15	15	15	7	7		
PCB 128	2,2',3,3',4,4'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 129	2,2',3,3',4,5-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 130	2,2',3,3',4,5'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 131	2,2',3,3',4,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 131/142		10	10	10				
PCB 132	2,2',3,3',4,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 133	2,2',3,3',5,5'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 134	2,2',3,3',5,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 134/143		10	10	10				
PCB 135	2,2',3,3',5,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 136	2,2',3,3',6,6'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 137	2,2',3,4,4',5-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 138	2,2',3,4,4',5'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 138/163/164		10	10	10				
PCB 139	2,2',3,4,4',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 140	2,2',3,4,4',6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 141	2,2',3,4,5,5'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 142	2,2',3,4,5,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 143	2,2',3,4,5,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 144	2,2',3,4,5',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 144/135		10	10	10				
PCB 145	2,2',3,4,6,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 146	2,2',3,4',5,5'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 147	2,2',3,4',5,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 148	2,2',3,4',5,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 149	2,2',3,4',5',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 149/139		10	10	10				
PCB 150	2,2',3,4',6,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 151	2,2',3,5,5',6-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 152	2,2',3,5,6,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 153	2,2',4,4',5,5'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 154	2,2',4,4',5,6'-Hexachlorobiphenyl	15	15	15	7	7		

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PCB 155	2,2',4,4',6,6'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 156	2,3,3',4,4',5-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 157	2,3,3',4,4',5'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 158	2,3,3',4,4',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 158/160		10	10	10				
PCB 159	2,3,3',4,5,5'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 160	2,3,3',4,5,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 161	2,3,3',4,5',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 162	2,3,3',4',5,5'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 163	2,3,3',4',5,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 164	2,3,3',4',5',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 165	2,3,3',5,5',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 166	2,3,4,4',5,6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 167	2,3',4,4',5,5'-Hexachlorobiphenyl	15	15	15	7	7		
PCB 168	2,3',4,4',5',6-Hexachlorobiphenyl	15	15	15	7	7		
PCB 169	3,3',4,4',5,5'-Hexachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 170	2,2',3,3',4,4',5-Heptachlorobiphenyl	15	15	15	7	7		
PCB 170/190		10	10	10				
PCB 171	2,2',3,3',4,4',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 172	2,2',3,3',4,5,5'-Heptachlorobiphenyl	15	15	15	7	7		
PCB 172/192		10	10	10				
PCB 173	2,2',3,3',4,5,6-Heptachlorobiphenyl	15	15	15	7	7		
PCB 174	2,2',3,3',4,5,6'-Heptachlorobiphenyl	15	15	15	7	7		
PCB 174/181		10	10	10				
PCB 175	2,2',3,3',4,5',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 176	2,2',3,3',4,6,6'-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 177	2,2',3,3',4,5',6'-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 178	2,2',3,3',5,5',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 179	2,2',3,3',5,6,6'-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 181	2,2',3,4,4',5,6-Heptachlorobiphenyl	15	15	15	7	7		
PCB 182	2,2',3,4,4',5,6'-Heptachlorobiphenyl	15	15	15	7	7		
PCB 183	2,2',3,4,4',5',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 184	2,2',3,4,4',6,6'-Heptachlorobiphenyl	15	15	15	7	7		
PCB 185	2,2',3,4,5,5',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 186	2,2',3,4,5,6,6'-Heptachlorobiphenyl	15	15	15	7	7		
PCB 187	2,2',3,4',5,5',6-Heptachlorobiphenyl	15	15	15	7	7		
PCB 187/182		10	10	10				
PCB 188	2,2',3,4',5,6,6'-Heptachlorobiphenyl	15	15	15	7	7		
PCB 189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 190	2,3,3',4,4',5,6-Heptachlorobiphenyl	15	15	15	7	7		
PCB 191	2,3,3',4,4',5',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 192	2,3,3',4,5,5',6-Heptachlorobiphenyl	15	15	15	7	7		
PCB 193	2,3,3',4',5,5',6-Heptachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 196	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	15	15	15	7	7		
PCB 196/203		10	10	10				
PCB 197	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 198	2,2',3,3',4,5,5',6-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 200	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	15	15	15	7	7		
PCB 201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	15	15	15	7	7		
PCB 203	2,2',3,4,4',5,5',6-Octachlorobiphenyl	15	15	15	7	7		
PCB 204	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	15	15	15	7	7		
PCB 205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 207	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
PCB 209	Decachlorobiphenyl	10, 15	10, 15	10, 15	7	7		
Total Monochlorobiphenyls		15	15	15				
Total Dichlorobiphenyls		10, 15	10, 15	10, 15				

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Total Trichlorobiphenyls	10, 15	10, 15	10, 15				
Total Tetrachlorobiphenyls	10, 15	10, 15	10, 15				
Total Pentachlorobiphenyls	10, 15	10, 15	10, 15				
Total Hexachlorobiphenyls	10, 15	10, 15	10, 15				
Total Heptachlorobiphenyls	10, 15	10, 15	10, 15				
Total Octachlorobiphenyls	10, 15	10, 15	10, 15				
Total Nonachlorobiphenyls	10, 15	10, 15	10, 15				
Total Decachlorobiphenyls	10	10	10				
Total Polychlorinated biphenyls	10	10	10		7		
Aroclors							
Aroclor 1260	10	10	10	7	7		
Aroclor 1254	10	10	10	7	7		
Aroclor 1268	10	10	10				
Aroclor 1221	10	10	10	7	7		
Aroclor 1232	10	10	10	7	7		
Aroclor 1248	10	10	10	7	7		
Aroclor 1016				7	7		
Aroclor 1242				7	7		
Aroclor 1242/1016	10	10	10				
Pesticides							
2,4'-DDD	10, 16	10, 16	10, 16	16			
2,4'-DDE	10, 16	10, 16	10, 16	16			
2,4'-DDT	10, 16	10, 16	10, 16	16			
4,4'-DDD	10, 16	10, 16	10, 16	16			
4,4'-DDE	10, 16	10, 16	10, 16	16			
4,4'-DDT	10, 16	10, 16	10, 16	16			
Aldrin	10, 16	10, 16	10, 16	16			
Alpha-HCH	10, 16	10, 16	10, 16	16			
Beta-HCH	10, 16	10, 16	10, 16	16			
cis-Chlordane (alpha-Chlordane)	10, 16	10, 16	10, 16	16			
cis-Nonachlor	10, 16	10, 16	10, 16	16			
Delta-HCH	10, 16	10, 16	10, 16	16			
Dieldrin	10, 16	10, 16	10, 16	16			
Endosulphan I	10, 16	10, 16	10, 16	16			
Endosulphan II	10, 16	10, 16	10, 16	16			
Endosulphan sulphate	10, 16	10, 16	10, 16	16			
Endrin	10, 16	10, 16	10, 16	16			
Endrin aldehyde	10, 16	10, 16	16	16			
Endrin ketone	10, 16	10, 16	10, 16	16			
Gamma-HCH (Lindane)	10, 16	10, 16	10, 16	16			
Heptachlor	10, 16	10, 16	10, 16	16			
Heptachlor epoxide	10, 16	10, 16	10, 16	16			
Hexachlorobenzene	10, 16	10, 16	10, 16	16			
Hexachlorobutadiene		16	16				
Methoxychlor	10, 16	10, 16	10, 16	16			
Mirex	10, 16	10, 16	10, 16	16			
Oxychlordane	10, 16	10, 16	10, 16	16			
Toxaphene	10	10	10				
trans-Chlordane (gamma-Chlordane)	10, 16	10, 16	10, 16	16			
trans-Nonachlor	16	10, 16	10, 16	16			
BDE - Brominated Diphenylethers							
BDE 7 2,4-dibromodiphenylether	17	17	17				
BDE 8 2,4'-dibromodiphenylether	17	17	17				
BDE 10 2,6-dibromodiphenylether	17	17	17				
BDE 11 3,3'-dibromodiphenylether	17	17	17				
BDE 12 3,4-dibromodiphenylether	17	17	17				
BDE 13 3,4'-dibromodiphenylether	17	17	17				
BDE 15 4,4'-dibromodiphenylether	17	17	17				
BDE 17 2,2',4-tribromodiphenylether	17	17	17				
BDE 25 2,3',4-tribromodiphenylether	17	17	17				

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BDE 28	2,4,4'-tribromodiphenylether	17	17	17				
BDE 30	2,4,6-tribromodiphenylether	17	17	17				
BDE-33	2',3,4-tribromodiphenylether	17	17	17				
BDE 35	3,3',4-tribromodiphenylether	17	17	17				
BDE 37	3,4,4'-tribromodiphenylether	17	17	17				
BDE 47	2,2',4,4'-tetrabromodiphenylether	17	17	17				
BDE 49	2,2',4,5'-tetrabromodiphenylether	17	17	17				
BDE 66	2,3',4,4'-tetrabromodiphenylether	17	17	17				
BDE 75	2,4,4',6-tetrabromodiphenylether	17	17	17				
BDE 77	3,3',4,4'-tetrabromodiphenylether	17	17	17				
BDE 85	2,2',3,4,4'-pentabromodiphenylether	17	17	17				
BDE 99	2,2',4,4',5-pentabromodiphenylether	17	17	17				
BDE 100	2,2',4,4',6-pentabromodiphenylether	17	17	17				
BDE 105	2,3,3',4,4'-pentabromodiphenylether	17	17	17				
BDE 116	2,3,4,5,6-pentabromodiphenylether	17	17	17				
BDE 119	2,3',4,4',6-pentabromodiphenylether	17	17	17				
BDE 126	3,3',4,4',5-pentabromodiphenylether	17	17	17				
BDE 140	2,2',3,4,4',6'-hexabromodiphenylether	17	17	17				
BDE 153	2,2',4,4',5,5'-hexabromodiphenylether	17	17	17				
BDE 154	2,2',4,4',5',6-hexabromodiphenylether	17	17	17				
BDE 155	2,2',4,4',6,6'-hexabromodiphenylether	17	17	17				
BDE 166	2,3,4,4',5,6-hexabromodiphenylether	17	17	17				
BDE 181	2,2',3,4,4',5,6-heptabromodiphenylether	17	17	17				
BDE-183	2,2',3,4,4',5',6-heptabromodiphenylether	17	17	17				
BDE 190	2,3,3',4,4',5,6-heptabromodiphenylether	17	17	17				
BDE 206	2,2',3,3',4,4',5,5',6-nonabromodiphenylether	17	17	17				
BDE 207	2,2',3,3',4,4',5,6,6'-nonabromodiphenylether	17	17	17				
BDE 208	2,2',3,3',4,5,5',6,6'-nonabromodiphenylether	17	17	17				
BDE 209	Decabromodiphenylether	17	17	17				
PFC – Perfluorinated Organic Compounds								
Perfluorobutanoate (PFBA)		14	12	13			14	14
Perfluoropentanoate (PFPeA)		14	12	13				14
Perfluorohexanoate (PFHxA)		14	12	13				14
Perfluoroheptanoate (PFHpA)		14	12	13				14
Perfluorooctanoate (PFOA)		14	12	13			14	14
Perfluorononanoate (PFNA)		14	12	13				14
Perfluorodecanoate (PFDA)		14	12	13				14
Perfluoroundecanoate (PFUnA)		14	12	13				14
Perfluorododecanoate (PFDoA)		14	12	13				14
Perfluorobutanesulfonate (PFBS)		14	12	13				14
Perfluorohexanesulfonate (PFHxS)		14	12	13				14
Perfluorooctanesulfonate (PFOS)		14	12	13			14	14
Perfluorooctane sulfonamide (PFOSA)		14	12	13				
PAH								
Anthracene			18	18				
Pyrene			18	18				
Benzo[ghi]perylene			18	18				
Benzo[e]pyrene			18	18				
Indeno[1,2,3-cd]pyrene			18	18				
Perylene			18	18				
Benzo[b]fluoranthene			18	18				
Fluoranthene			18	18				
Benzo[k]fluoranthene				18				
Acenaphthylene			18	18				
Chrysene			18	18				
Benzo[a]pyrene			18	18				
Dibenz[ah]anthracene			18	18				
Benz[a]anthracene			18	18				
Acenaphthene			18	18				
Phenanthrene			18	18				
Fluorene			18	18				

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Naphthalene		18	18				
PPCP (Pharmaceutical and Personal Care Products)							
Acetaminophen	19	19					
Azithromycin	19	19					
Caffeine	19	19					
Carbadox	19	19					
Carbamazepine	19	19					
Cefotaxime	19	19					
Ciprofloxacin	19	19					
Clarithromycin	19	19					
Clinafloxacin	19	19					
Cloxacillin	19	19					
Dehydronifedipine	19	19					
Digoxigenin	19	19					
Digoxin	19	19					
Diltiazem	19	19					
1,7-Dimethylxanthine	19	19					
Diphenhydramine	19	19					
Enrofloxacin	19	19					
Erythromycin	19	19					
Flumequine	19	19					
Fluoxetine	19	19					
Lincomycin	19	19					
Lomefloxacin	19	19					
Miconazole	19	19					
Norfloxacin	19	19					
Norgestimate	19	19					
Ofloxacin	19	19					
Ormetoprim	19	19					
Oxacillin	19	19					
Oxolinic acid	19	19					
Penicillin G	19	19					
Penicillin V	19	19					
Roxithromycin	19	19					
Sarafloxacin	19	19					
Sulfachloropyridazine	19	19					
Sulfadiazine	19	19					
Sulfadimethoxine	19	19					
Sulfamerazine	19	19					
Sulfamethazine	19	19					
Sulfamethizole	19	19					
Sulfamethoxazole	19	19					
Sulfanilamide	19	19					
Sulfathiazole	19	19					
Thiabendazole	19	19					
Trimethoprim	19	19					
Tylosin	19	19					
Virginiamycin	19	19					
Anhydrochlortetracycline (ACTC)	19	19					
Anhydrotetracycline (ATC)	19	19					
Chlortetracycline (CTC)	19	19					
Demeclocycline	19	19					
Doxycycline	19	19					
4-Epianhydrochlortetracycline (EACTC)	19	19					
4-Epianhydrotetracycline (EATC)	19	19					
4-Epichlortetracycline (ECTC)	19	19					
4-Epioxytetracycline (EOTC)	19	19					
4-Epitetracycline (ETC)	19	19					
Isochlortetracycline (ICTC)	19	19					
Minocycline	19	19					
Oxytetracycline (OTC)	19	19					

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Tetracycline (TC)	19	19					
Bisphenol A	19	19					
Furosemide	19	19					
Gemfibrozil	19	19					
Glipizide	19	19					
Glyburide	19	19					
Hydrochlorothiazide	19	19					
2-hydroxy-ibuprofen	19	19					
Ibuprofen	19	19					
Naproxen	19	19					
Triclocarban	19	19					
Triclosan	19	19					
Warfarin	19	19					
Albuterol	19	19					
Amphetamine	19	19					
Atenolol	19	19					
Atorvastatin	19	19					
Cimetidine	19	19					
Clonidine	19	19					
Codeine	19	19					
Cotinine	19	19					
Enalapril	19	19					
Hydrocodone	19	19					
Metformin	19	19					
Oxycodone	19	19					
Ranitidine	19	19					
Triamterene	19	19					
Alprazolam	19	19					
Amitriptyline	19	19					
Amlodipine	19	19					
Benzoylecgonine	19	19					
Benztropine	19	19					
Betamethasone	19	19					
Cocaine	19	19					
DEET (N,N-diethyl-m-toluamide)	19	19					
Desmethyldiltiazem	19	19					
Diazepam	19	19					
Fluocinonide	19	19					
Fluticasone propionate	19	19					
Hydrocortisone	19	19					
10-hydroxy-amitriptyline	19	19					
Meprobamate	19	19					
Methylprednisolone	19	19					
Metoprolol	19	19					
Norfluoxetine	19	19					
Norverapamil	19	19					
Paroxetine	19	19					
Prednisolone	19	19					
Prednisone	19	19					
Promethazine	19	19					
Propoxyphene	19	19					
Propranolol	19	19					
Sertraline	19	19					
Simvastatin	19	19					
Theophylline	19	19					
Trenbolone	19	19					
Trenbolone acetate	19	19					
Valsartan	19	19					
Verapamil	19	19					

Table 1 and Table 2 - Explanation of Terms Used:

- NELAP = National Environmental Laboratory Accreditation Program
- Non-potable water = water not fit for consumption without treatment as it may contain pollutants, contaminants, minerals or infective agents. Surface water, ground water, rainwater, effluents as well as any other non-drinking water sources are included in this category.
- Solid = environmental solid sample. Soil, sediment, biosolids, hazardous waste, mixed phase samples with significant solids content are included in this category.
- Performance based implementation = methodology follows method reference with no significant modifications and meets method reference data quality standard.
- Performance based modification = methodology has been modified from that of the method reference protocol but meets method reference accuracy standard. The suitability of the methodology for any method prescriptive applications should be assessed based on the modifications made and the specific work requirements.
- GC/LRMS = gas chromatography, low resolution mass spectrometry detection
- GC/HRMS = gas chromatography, high resolution mass spectrometry detection
- GC/ECD = gas chromatography, electron capture detection
- LC/MS-MS = liquid chromatography, mass spectrometry-mass spectrometry detection