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Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Blank Analysis Results

Client - ATC ASSOCIATES

Lab Sample ID	BLANK-2231	Matrix	WIPE
Filename	U21008B_05	Dilution	NA
Total Amount Extracted	1.00 m2	Extracted	09/29/2002
ICAL Date	08/06/2002	Analyzed	10/09/2002 00:50
CCal Filename(s)	U21008A_17 & U21008B_16	Injected By	MRO

Native Isomers	Conc ng/m2		EMPC ng/m2	LRL ng/m2	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND		—	0.00200	2,3,7,8-TCDF-13C	2.00	62
Total TCDF	ND		—	0.00200	2,3,7,8-TCDD-13C	2.00	63
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND		—	0.00200	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND		—	0.00200	1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND		—	0.01000	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND		—	0.01000	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND		—	0.01000	1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND		—	0.01000	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND		—	0.01000	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND		—	0.01000	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND		—	0.01000	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND		—	0.01000			
1,2,3,7,8,9-HxCDF	ND		—	0.01000	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND		—	0.01000	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND		—	0.01000	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	ND		—	0.01000			
1,2,3,7,8,9-HxCDD	ND		—	0.01000			
Total HxCDD	ND		—	0.01000			
1,2,3,4,6,7,8-HpCDF	ND		—	0.01000	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND		—	0.01000	Equivalence: 0.00 ng/m2		
Total HpCDF	ND		—	0.01000	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND		—	0.01000			
Total HpCDD	ND		—	0.01000			
OCDF	ND		—	0.02000			
OCDD	ND		—	0.02000			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1061946

REPORT OF LABORATORY ANALYSIS

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Method 8290 Analysis Results

Client - ATC ASSOCIATES

Client's Sample ID	ATC-0827-1M-DX1		
Lab Sample ID	103815254		
Filename	U21010B_13		
Injected By	MRO		
Total Amount Extracted	1.00 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/27/2002
ICAL Date	08/06/2002	Received	08/28/2002
CCal Filename(s)	U21010A_14 & U21010B_16	Extracted	09/29/2002
Method Blank ID	BLANK-2231	Analyzed	10/11/2002 05:30

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.00230	A	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.0076	----	0.00200	J	2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	----	0.00310	A	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	0.0170	----	0.00200		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	----	0.01000		1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	ND	----	0.01000		2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	----	0.01000		1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,7,8-PeCDD	ND	----	0.01000		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	----	0.01000		1,2,3,4,6,7,8-HpCDF-13C	2.00	90
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	ND	----	0.01000		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	----	0.01000		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	----	0.01000				
1,2,3,7,8,9-HxCDF	ND	----	0.01000		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.01000		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.01000		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	----	0.01000				
1,2,3,7,8,9-HxCDD	ND	----	0.01000				
Total HxCDD	ND	----	0.01000				
1,2,3,4,6,7,8-HpCDF	ND	----	0.01000		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.01000		Equivalence: 0.000083 ng/m2		
Total HpCDF	ND	----	0.01000		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.01000				
Total HpCDD	ND	----	0.01000				
OCDF	ND	----	0.02000				
OCDD	0.0830	----	0.02000	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 8290 Analysis Results

Client - ATC ASSOCIATES

Client's Sample ID	ATC-0827-1M-DX2		
Lab Sample ID	103815262		
Filename	U21010B_11		
Injected By	MRO		
Total Amount Extracted	1.00 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/27/2002
ICAL Date	08/06/2002	Received	08/28/2002
CCal Filename(s)	U21010A_14 & U21010B_16	Extracted	09/29/2002
Method Blank ID	BLANK-2231	Analyzed	10/11/2002 03:51

Native Isomers	Conc ng/m2		EMPC ng/m2		LRL ng/m2		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND		—		0.00200		2,3,7,8-TCDF-13C	2.00	84
Total TCDF	0.0050		—		0.00200	J	2,3,7,8-TCDD-13C	2.00	81
							1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND		—		0.00360	A	2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	0.0190		—		0.00200		1,2,3,7,8-PeCDD-13C	2.00	90
							1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	ND		—		0.01000		1,2,3,6,7,8-HxCDF-13C	2.00	104
2,3,4,7,8-PeCDF	ND		—		0.01000		2,3,4,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	ND		—		0.01000		1,2,3,7,8,9-HxCDF-13C	2.00	101
							1,2,3,4,7,8-HxCDD-13C	2.00	106
1,2,3,7,8-PeCDD	ND		—		0.01000		1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	ND		—		0.01000		1,2,3,4,6,7,8-HpCDF-13C	2.00	99
							1,2,3,4,7,8,9-HpCDF-13C	2.00	93
1,2,3,4,7,8-HxCDF	ND		—		0.01000		1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND		—		0.01000		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND		—		0.01000				
1,2,3,7,8,9-HxCDF	ND		—		0.01000		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND		—		0.01000		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND		—		0.01000		2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND		—		0.01000				
1,2,3,7,8,9-HxCDD	ND		—		0.01000				
Total HxCDD	ND		—		0.01000				
1,2,3,4,6,7,8-HpCDF	ND		—		0.01000		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND		—		0.01000		Equivalence: 0.00018 ng/m2		
Total HpCDF	ND		—		0.01000		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.0110		—		0.01000	J			
Total HpCDD	0.0220		—		0.01000	J			
OCDF	ND		—		0.02000				
OCDD	0.0710		—		0.02000	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentraton detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 8290 Analysis Results

Client - ATC ASSOCIATES

Client's Sample ID	ATC-0827-1M-DX3		
Lab Sample ID	103815270		
Filename	U21010B_12		
Injected By	MRO		
Total Amount Extracted	1.00 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/27/2002
ICAL Date	08/06/2002	Received	08/28/2002
CCal Filename(s)	U21010A_14 & U21010B_16	Extracted	09/29/2002
Method Blank ID	BLANK-2231	Analyzed	10/11/2002 04:40

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.00200		2,3,7,8-TCDF-13C	2.00	92
Total TCDF	0.0021	----	0.00200	J	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	ND	----	0.00200		2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	0.0190	----	0.00200		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	100
1,2,3,7,8-PeCDF	ND	----	0.01000		1,2,3,6,7,8-HxCDF-13C	2.00	108
2,3,4,7,8-PeCDF	ND	----	0.01000		2,3,4,6,7,8-HxCDF-13C	2.00	105
Total PeCDF	ND	----	0.01000		1,2,3,7,8,9-HxCDF-13C	2.00	104
					1,2,3,4,7,8-HxCDD-13C	2.00	112
1,2,3,7,8-PeCDD	ND	----	0.01000		1,2,3,6,7,8-HxCDD-13C	2.00	100
Total PeCDD	ND	----	0.01000		1,2,3,4,6,7,8-HpCDF-13C	2.00	101
					1,2,3,4,7,8,9-HpCDF-13C	2.00	93
1,2,3,4,7,8-HxCDF	ND	----	0.01000		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	----	0.01000		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	----	0.01000				
1,2,3,7,8,9-HxCDF	ND	----	0.01000		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.01000		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.01000		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	----	0.01000				
1,2,3,7,8,9-HxCDD	ND	----	0.01000				
Total HxCDD	ND	----	0.01000				
1,2,3,4,6,7,8-HpCDF	ND	----	0.01000		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.01000		Equivalence: 0.000045 ng/m2		
Total HpCDF	ND	----	0.01000		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.01000				
Total HpCDD	ND	----	0.01000				
OCDF	ND	----	0.02000				
OCDD	0.0450	----	0.02000	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Client - ATC ASSOCIATES

Lab Sample ID	SPIKE-2232		
Filename	U21008B_01	Matrix	WIPE
Total Amount Extracted	1.00 m2	Dilution	NA
ICAL Date	08/06/2002	Extracted	09/29/2002
CCal Filename(s)	U21008A_17 & U21008B_16	Analyzed	10/08/2002 21:33
Method Blank ID	BLANK-2231	Injected By	MRO

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	97	2,3,7,8-TCDF-13C	2.00	76
				2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	0.20	0.19	96	2,3,4,7,8-PeCDF-13C	2.00	82
				1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	1.00	1.00	100	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	1.00	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.00	87
				1,2,3,7,8,9-HxCDF-13C	2.00	87
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	1.00	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.00	81
				1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	1.00	0.97	97	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	1.00	0.84	84	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	1.00	1.00	100			
1,2,3,7,8,9-HxCDF	1.00	1.00	100	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.00	100	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.00	0.97	97			
1,2,3,7,8,9-HxCDD	1.00	1.02	102			
1,2,3,4,6,7,8-HpCDF	1.00	1.03	103			
1,2,3,4,7,8,9-HpCDF	1.00	1.03	103			
1,2,3,4,6,7,8-HpCDD	1.00	1.17	117			
OCDF	2.00	2.52	126			
OCDD	2.00	3.68	184 P			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Client - ATC ASSOCIATES

Lab Sample ID	SPIKE DUP-2233		
Filename	U21008B_02	Matrix	WIPE
Total Amount Extracted	1.00 m2	Dilution	NA
ICAL Date	08/06/2002	Extracted	09/29/2002
CCal Filename(s)	U21008A_17 & U21008B_16	Analyzed	10/08/2002 22:23
Method Blank ID	BLANK-2231	Injected By	MRO

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	96	2,3,7,8-TCDF-13C	2.00	69
				2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	0.20	0.19	93	2,3,4,7,8-PeCDF-13C	2.00	80
				1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	1.00	0.95	95	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	1.00	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.00	87
				1,2,3,7,8,9-HxCDF-13C	2.00	87
				1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	1.00	0.94	94	1,2,3,6,7,8-HxCDD-13C	2.00	86
				1,2,3,4,6,7,8-HpCDF-13C	2.00	83
				1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	1.00	0.95	95	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	1.00	0.97	97	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	1.00	0.98	98			
1,2,3,7,8,9-HxCDF	1.00	0.98	98	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.90	90	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	1.00	0.98	98			
1,2,3,7,8,9-HxCDD	1.00	0.96	96			
1,2,3,4,6,7,8-HpCDF	1.00	0.98	98			
1,2,3,4,7,8,9-HpCDF	1.00	0.98	98			
1,2,3,4,6,7,8-HpCDD	1.00	1.02	102			
OCDF	2.00	2.04	102			
OCDD	2.00	2.00	100			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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REPORT OF LABORATORY ANALYSIS

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SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client..... ATC ASSOCIATES

SPIKE 1 ID..... SPIKE-2232
SPIKE 1 Filename..... U21008B_01
SPIKE 2 ID..... SPIKE DUP-2233
SPIKE 2 Filename..... U21008B_02

COMPOUND	SPIKE 1 REC,%	SPIKE 2 REC,%	RPD,%
2378-TCDF	97	96	1.0
2378-TCDD	96	93	3.2
12378-PeCDF	100	95	5.1
23478-PeCDF	98	98	0.0
12378-PeCDD	99	94	5.2
123478-HxCDF	97	95	2.1
123678-HxCDF	84	97	14.4
234678-HxCDF	100	98	2.0
123789-HxCDF	100	98	2.0
123478-HxCDD	100	90	10.5
123678-HxCDD	97	98	1.0
123789-HxCDD	102	96	6.1
1234678-HpCDF	103	98	5.0
1234789-HpCDF	103	98	5.0
1234678-HpCDD	117	102	13.7
OCDF	126	102	21.1
OCDD	184	100	59.2

REC = Percent Recovered
RPD = The difference between the two values divided by the average.
NA = Not Applicable

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