284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4921	**OrderDate:**	11/19/2024 12:44:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4921-01	**WC-11-A-202411**	**TCLP**			**11/19/24**			**11/19/24**
			TCLP VOA	8260D			11/21/24	

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Hit Summary Sheet
SW-846

SDG No.: P4921

Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WC-11-A-202411**							
P4921-01	WC-11-A-202411	TCLP	1,2-Dichloroethane	6.40		0.24	5.00	ug/L
P4921-01	WC-11-A-202411	TCLP	Trichloroethene	2.20	J	0.32	5.00	ug/L
P4921-01	WC-11-A-202411	TCLP	Tetrachloroethene	18.5		0.25	5.00	ug/L
			Total Voc :	27.1				
			Total Concentration:	27.1				

SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	11/19/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/19/24
Client Sample ID:	WC-11-A-202411	SDG No.:	P4921
Lab Sample ID:	P4921-01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043937.D	1		11/21/24 16:03	VX112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	6.40		0.24	5.00	ug/L
79-01-6	Trichloroethene	2.20	J	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	48.9		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	120000	5.544			
540-36-3	1,4-Difluorobenzene	230000	6.757			
3114-55-4	Chlorobenzene-d5	202000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	87200	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: P4921

Client: AECOM

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4921-01	WC-11-A-202411	1,2-Dichloroethane-d4	50	49.2	98	74	125
		Dibromofluoromethane	50	46.0	92	75	124
		Toluene-d8	50	48.9	98	86	113
		4-Bromofluorobenzene	50	48.0	96	77	121

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Surrogate Summary

SDG No.: P4921

Client: AECOM

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX1121WBL01	VX1121WBL01	1,2-Dichloroethane-d4	50	49.5	99	74	125
		Dibromofluoromethane	50	46.0	92	75	124
		Toluene-d8	50	49.5	99	86	113
		4-Bromofluorobenzene	50	49.0	98	77	121
VX1121WBS01	VX1121WBS01	1,2-Dichloroethane-d4	50	50.8	102	74	125
		Dibromofluoromethane	50	47.8	96	75	124
		Toluene-d8	50	48.3	97	86	113
		4-Bromofluorobenzene	50	48.5	97	77	121
VX1121WBSD0	VX1121WBSD01	1,2-Dichloroethane-d4	50	49.4	99	74	125
		Dibromofluoromethane	50	46.4	93	75	124
		Toluene-d8	50	48.4	97	86	113
		4-Bromofluorobenzene	50	49.5	99	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: SW8260-Low **Datafile :** VX043935.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1121WBS01	Vinyl chloride	20	18.5	ug/L	93			65	117	
	1,1-Dichloroethene	20	17.9	ug/L	90			74	110	
	2-Butanone	100	95.6	ug/L	96			65	122	
	Carbon Tetrachloride	20	17.0	ug/L	85			77	113	
	Chloroform	20	19.1	ug/L	96			79	113	
	Benzene	20	18.4	ug/L	92			82	109	
	1,2-Dichloroethane	20	18.4	ug/L	92			80	115	
	Trichloroethene	20	15.5	ug/L	78			77	113	
	Tetrachloroethene	20	17.7	ug/L	89			67	123	
	Chlorobenzene	20	17.6	ug/L	88			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: SW8260-Low **Datafile :** VX043936.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1121WBSD01	Vinyl chloride	20	17.7	ug/L	89	4		65	117	20
	1,1-Dichloroethene	20	17.8	ug/L	89	1		74	110	20
	2-Butanone	100	98.3	ug/L	98	2		65	122	20
	Carbon Tetrachloride	20	17.8	ug/L	89	5		77	113	20
	Chloroform	20	18.3	ug/L	92	4		79	113	20
	Benzene	20	18.1	ug/L	91	1		82	109	20
	1,2-Dichloroethane	20	18.3	ug/L	92	0		80	115	20
	Trichloroethene	20	15.5	ug/L	78	0		77	113	20
	Tetrachloroethene	20	18.2	ug/L	91	2		67	123	20
	Chlorobenzene	20	17.5	ug/L	88	0		82	109	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1121WBL01

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Lab File ID: VX043934.D Lab Sample ID: VX1121WBL01

Date Analyzed: 11/21/2024 Time Analyzed: 14:50

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1121WBS01	VX1121WBS01	VX043935.D	11/21/2024
VX1121WBSD01	VX1121WBSD01	VX043936.D	11/21/2024
WC-11-A-202411	P4921-01	VX043937.D	11/21/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Lab File ID: VX043924.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	4.8 (6.8) 1
176	95.0 - 101.0% of mass 174	67.9 (96.4) 1
177	5.0 - 9.0% of mass 176	4.9 (7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX043925.D	11/21/2024	09:47
VSTDICC005	VSTDICC005	VX043926.D	11/21/2024	10:14
VSTDICC020	VSTDICC020	VX043927.D	11/21/2024	10:37
VSTDICCC050	VSTDICCC050	VX043928.D	11/21/2024	11:17
VSTDICC100	VSTDICC100	VX043929.D	11/21/2024	11:40
VSTDICC150	VSTDICC150	VX043930.D	11/21/2024	12:03
VX1121WBL01	VX1121WBL01	VX043934.D	11/21/2024	14:50
VX1121WBS01	VX1121WBS01	VX043935.D	11/21/2024	15:13
VX1121WBSD01	VX1121WBSD01	VX043936.D	11/21/2024	15:40
WC-11-A-202411	P4921-01	VX043937.D	11/21/2024	16:03

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Lab File ID: VX043928.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_X Time Analyzed: 11:17

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	138578	5.54	241629	6.76	212243	10.05
UPPER LIMIT	277156	6.038	483258	7.257	424486	10.549
LOWER LIMIT	69289	5.038	120815	6.257	106122	9.549
EPA SAMPLE NO.						
WC-11-A-202411	120017	5.54	230353	6.76	202083	10.06
VX1121WBL01	130697	5.54	247747	6.76	216577	10.05
VX1121WBS01	142766	5.54	267012	6.76	228045	10.06
VX1121WBSD01	129837	5.55	234251	6.76	206616	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Lab File ID: VX043928.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_X Time Analyzed: 11:17

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	100316	12.024				
UPPER LIMIT	200632	12.524				
LOWER LIMIT	50158	11.524				
EPA SAMPLE NO.						
WC-11-A-202411	87227	12.02				
VX1121WBL01	92124	12.02				
VX1121WBS01	103776	12.02				
VX1121WBSD01	93190	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX1121WBL01	SDG No.:	P4921
Lab Sample ID:	VX1121WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043934.D	1		11/21/24 14:50	VX112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	131000	5.544			
540-36-3	1,4-Difluorobenzene	248000	6.757			
3114-55-4	Chlorobenzene-d5	217000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	92100	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX1121WBS01	SDG No.:	P4921
Lab Sample ID:	VX1121WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043935.D	1		11/21/24 15:13	VX112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.5		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.26	1.00	ug/L
78-93-3	2-Butanone	95.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.0		0.25	1.00	ug/L
67-66-3	Chloroform	19.1		0.26	1.00	ug/L
71-43-2	Benzene	18.4		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	15.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	17.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.3		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	143000	5.543			
540-36-3	1,4-Difluorobenzene	267000	6.757			
3114-55-4	Chlorobenzene-d5	228000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.024			

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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX1121WBSD01	SDG No.:	P4921
Lab Sample ID:	VX1121WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043936.D	1		11/21/24 15:40	VX112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.8		0.26	1.00	ug/L
78-93-3	2-Butanone	98.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.8		0.25	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	1.00	ug/L
71-43-2	Benzene	18.1		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	15.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	18.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.5		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		75 - 124	93%	SPK: 50
2037-26-5	Toluene-d8	48.4		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	130000	5.55			
540-36-3	1,4-Difluorobenzene	234000	6.757			
3114-55-4	Chlorobenzene-d5	207000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	93200	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG No.: P4921

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043925.D RRF005 = VX043926.D RRF020 = VX043927.D
RRF050 = VX043928.D RRF100 = VX043929.D RRF150 = VX043930.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.675	0.708	0.730	0.762	0.695	0.684	0.709	4.6
1,1-Dichloroethene	0.596	0.530	0.585	0.600	0.572	0.576	0.576	4.4
2-Butanone	0.448	0.486	0.538	0.567	0.500	0.510	0.508	8.1
Carbon Tetrachloride	0.439	0.466	0.491	0.558	0.520	0.528	0.500	8.7
Chloroform	1.070	1.238	1.309	1.316	1.269	1.293	1.249	7.4
Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7
1,2-Dichloroethane	0.499	0.546	0.585	0.603	0.551	0.558	0.557	6.4
Trichloroethene	0.547	0.372	0.368	0.373	0.345	0.352	0.393	19.5
Tetrachloroethene	0.304	0.342	0.336	0.349	0.315	0.332	0.330	5.1
Chlorobenzene	1.050	1.109	1.107	1.145	1.069	1.108	1.098	3.1
1,2-Dichloroethane-d4		0.926	0.876	0.751	0.855	0.880	0.858	7.6
Dibromofluoromethane		0.371	0.353	0.327	0.359	0.376	0.357	5.4
Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.6
4-Bromofluorobenzene		0.401	0.414	0.387	0.438	0.455	0.419	6.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.