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

LAB CHRONICLE

OrderID:	P4852	**OrderDate:**	11/14/2024 11:23:00 AM
Client:	Kleinfelder	**Project:**	Webster School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4852-01	**COMP-1**	**SOIL**			**11/13/24**			**11/14/24**
			VOCMS Group1	8260D			11/21/24	
P4852-02	**COMP-2**	**SOIL**			**11/13/24**			**11/14/24**
			VOCMS Group1	8260D			11/18/24	
P4852-02RE	**COMP-2RE**	**SOIL**			**11/13/24**			**11/14/24**
			VOCMS Group1	8260D			11/21/24	
P4852-03	**COMP-3**	**SOIL**			**11/13/24**			**11/14/24**
			VOCMS Group1	8260D			11/21/24	

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Hit Summary Sheet
SW-846

SDG No.: P4852

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	11/13/24
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-1	SDG No.:	P4852
Lab Sample ID:	P4852-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.2
Sample Wt/Vol:	5.46 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020377.D	1		11/21/24 11:25	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	5.50	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.50	ug/Kg
79-01-6	Trichloroethene	0.83	U	0.83	5.50	ug/Kg
108-88-3	Toluene	0.74	U	0.74	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.50	ug/Kg
1330-20-7	Total Xylenes	2.27	U	2.27	16.5	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.6		50 - 163	117%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		54 - 147	101%	SPK: 50
2037-26-5	Toluene-d8	49.3		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	137000	7.713			
540-36-3	1,4-Difluorobenzene	265000	8.616			
3114-55-4	Chlorobenzene-d5	249000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	91900	13.353			

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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	11/13/24
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-2	SDG No.:	P4852
Lab Sample ID:	P4852-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81.4
Sample Wt/Vol:	5.18 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080069.D	1		11/18/24 15:18	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.72	U	0.72	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	5.90	ug/Kg
71-43-2	Benzene	0.85	U	0.85	5.90	ug/Kg
79-01-6	Trichloroethene	0.89	U	0.89	5.90	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.90	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	5.90	ug/Kg
1330-20-7	Total Xylenes	2.43	U	2.43	17.8	ug/Kg
98-82-8	Isopropylbenzene	0.79	U	0.79	5.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	140	*	50 - 163	286%	SPK: 50
1868-53-7	Dibromofluoromethane	87.9	*	54 - 147	176%	SPK: 50
2037-26-5	Toluene-d8	41.6		58 - 134	83%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		29 - 146	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	10600	7.881			
540-36-3	1,4-Difluorobenzene	22700	8.781			
3114-55-4	Chlorobenzene-d5	22500	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	10100	13.516			

U = Not Detected
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Report of Analysis

Client:	Kleinfelder	Date Collected:	11/13/24
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-2RE	SDG No.:	P4852
Lab Sample ID:	P4852-02RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81.4
Sample Wt/Vol:	4.7 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020378.D	1		11/21/24 11:49	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	6.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	6.50	ug/Kg
71-43-2	Benzene	0.94	U	0.94	6.50	ug/Kg
79-01-6	Trichloroethene	0.98	U	0.98	6.50	ug/Kg
108-88-3	Toluene	0.88	U	0.88	6.50	ug/Kg
100-41-4	Ethyl Benzene	0.81	U	0.81	6.50	ug/Kg
1330-20-7	Total Xylenes	2.71	U	2.71	19.6	ug/Kg
98-82-8	Isopropylbenzene	0.88	U	0.88	6.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		50 - 163	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	46.6		58 - 134	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1		29 - 146	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60100	7.713			
540-36-3	1,4-Difluorobenzene	106000	8.615			
3114-55-4	Chlorobenzene-d5	91000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	32400	13.352			

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	11/13/24
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-3	SDG No.:	P4852
Lab Sample ID:	P4852-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	5.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020379.D	1		11/21/24 12:12	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	5.50	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.50	ug/Kg
79-01-6	Trichloroethene	0.83	U	0.83	5.50	ug/Kg
108-88-3	Toluene	0.74	U	0.74	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.50	ug/Kg
1330-20-7	Total Xylenes	2.27	U	2.27	16.5	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		50 - 163	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		29 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	134000	7.713			
540-36-3	1,4-Difluorobenzene	258000	8.616			
3114-55-4	Chlorobenzene-d5	237000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	92800	13.347			

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

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B = Analyte Found in Associated Method Blank
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QC SUMMARY

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Surrogate Summary

SDG No.: P4852

Client: Kleinfelder

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P4852-01	COMP-1	1,2-Dichloroethane-d4	50	58.6	117		50	163
		Dibromofluoromethane	50	50.6	101		54	147
		Toluene-d8	50	49.3	99		58	134
		4-Bromofluorobenzene	50	49.5	99		29	146
P4852-02	COMP-2	1,2-Dichloroethane-d4	50	143	286	*	50	163
		Dibromofluoromethane	50	87.8	176	*	54	147
		Toluene-d8	50	41.6	83		58	134
		4-Bromofluorobenzene	50	47.8	96		29	146
P4852-02RE	COMP-2RE	1,2-Dichloroethane-d4	50	50.2	100		50	163
		Dibromofluoromethane	50	48.7	97		54	147
		Toluene-d8	50	46.6	93		58	134
		4-Bromofluorobenzene	50	43.1	86		29	146
P4852-03	COMP-3	1,2-Dichloroethane-d4	50	53.2	106		50	163
		Dibromofluoromethane	50	49.3	99		54	147
		Toluene-d8	50	48.7	97		58	134
		4-Bromofluorobenzene	50	49.8	100		29	146
VD1118SBL01	VD1118SBL01	1,2-Dichloroethane-d4	50	49.5	99		50	163
		Dibromofluoromethane	50	48.9	98		54	147
		Toluene-d8	50	44.4	89		58	134
		4-Bromofluorobenzene	50	41.2	82		29	146
VD1118SBS01	VD1118SBS01	1,2-Dichloroethane-d4	50	49.4	99		50	163
		Dibromofluoromethane	50	49.8	100		54	147
		Toluene-d8	50	51.0	102		58	134
		4-Bromofluorobenzene	50	50.4	101		29	146
VD1118SBSD01	VD1118SBSD01	1,2-Dichloroethane-d4	50	48.0	96		50	163
		Dibromofluoromethane	50	50.2	100		54	147
		Toluene-d8	50	50.0	100		58	134
		4-Bromofluorobenzene	50	50.4	101		29	146
VY1121SBL01	VY1121SBL01	1,2-Dichloroethane-d4	50	51.9	104		50	163
		Dibromofluoromethane	50	48.5	97		54	147
		Toluene-d8	50	48.2	96		58	134
		4-Bromofluorobenzene	50	47.3	95		29	146
VY1121SBS01	VY1121SBS01	1,2-Dichloroethane-d4	50	46.0	92		50	163
		Dibromofluoromethane	50	43.7	87		54	147
		Toluene-d8	50	43.4	87		58	134
		4-Bromofluorobenzene	50	45.0	90		29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VD080060.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VD1118SBS01	cis-1,2-Dichloroethene	20	18.4	ug/Kg	92			82	123	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			80	126	
	Benzene	20	19.3	ug/Kg	97			84	121	
	Trichloroethene	20	19.6	ug/Kg	98			83	122	
	Toluene	20	19.5	ug/Kg	98			83	122	
	Ethyl Benzene	20	18.5	ug/Kg	93			82	124	
	m/p-Xylenes	40	38.7	ug/Kg	97			83	124	
	o-Xylene	20	19.7	ug/Kg	99			83	123	
	Isopropylbenzene	20	18.5	ug/Kg	93			82	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VD080061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD1118SBSD01	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102	10		82	123	20
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103	1		80	126	20
	Benzene	20	20.8	ug/Kg	104	7		84	121	20
	Trichloroethene	20	20.5	ug/Kg	103	5		83	122	20
	Toluene	20	21.3	ug/Kg	106	8		83	122	20
	Ethyl Benzene	20	19.3	ug/Kg	97	4		82	124	20
	m/p-Xylenes	40	39.5	ug/Kg	99	2		83	124	20
	o-Xylene	20	19.7	ug/Kg	99	0		83	123	20
	Isopropylbenzene	20	19.9	ug/Kg	100	7		82	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4852

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020375.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1121SBS01	cis-1,2-Dichloroethene	20	18.9	ug/Kg	95			82	123	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			80	126	
	Benzene	20	19.6	ug/Kg	98			84	121	
	Trichloroethene	20	19.3	ug/Kg	97			83	122	
	Toluene	20	19.3	ug/Kg	97			83	122	
	Ethyl Benzene	20	19.0	ug/Kg	95			82	124	
	m/p-Xylenes	40	39.2	ug/Kg	98			83	124	
	o-Xylene	20	19.5	ug/Kg	98			83	123	
	Isopropylbenzene	20	18.4	ug/Kg	92			82	124	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1118SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080059.D Lab Sample ID: VD1118SBL01

Date Analyzed: 11/18/2024 Time Analyzed: 10:27

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD1118SBS01	VD1118SBS01	VD080060.D	11/18/2024
VD1118SBSD01	VD1118SBSD01	VD080061.D	11/18/2024
COMP-2	P4852-02	VD080069.D	11/18/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1121SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020374.D Lab Sample ID: VY1121SBL01

Date Analyzed: 11/21/2024 Time Analyzed: 09:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1121SBS01	VY1121SBS01	VY020375.D	11/21/2024
COMP-1	P4852-01	VY020377.D	11/21/2024
COMP-2RE	P4852-02RE	VY020378.D	11/21/2024
COMP-3	P4852-03	VY020379.D	11/21/2024

COMMENTS:

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A B C D E F G

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080019.D BFB Injection Date: 11/15/2024

Instrument ID: MSVOA_D BFB Injection Time: 09:14

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	90.2
175	5.0 - 9.0% of mass 174	7.3 (8.1) 1
176	95.0 - 101.0% of mass 174	87.4 (97) 1
177	5.0 - 9.0% of mass 176	5.9 (6.7) 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
VSTDICC005	VSTDICC005	VD080020.D	11/15/2024	10:04
VSTDICC010	VSTDICC010	VD080021.D	11/15/2024	10:31
VSTDICC020	VSTDICC020	VD080022.D	11/15/2024	10:58
VSTDICCC050	VSTDICCC050	VD080023.D	11/15/2024	11:24
VSTDICC100	VSTDICC100	VD080024.D	11/15/2024	11:51
VSTDICC150	VSTDICC150	VD080025.D	11/15/2024	12:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080057.D BFB Injection Date: 11/18/2024

Instrument ID: MSVOA_D BFB Injection Time: 09:21

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	49.1
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	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	93
175	5.0 - 9.0% of mass 174	7.3 (7.9) 1
176	95.0 - 101.0% of mass 174	92 (98.9) 1
177	5.0 - 9.0% of mass 176	5.8 (6.3) 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
VSTDCCC050	VSTDCCC050	VD080058.D	11/18/2024	09:51
VD1118SBL01	VD1118SBL01	VD080059.D	11/18/2024	10:27
VD1118SBS01	VD1118SBS01	VD080060.D	11/18/2024	10:55
VD1118SBSD01	VD1118SBSD01	VD080061.D	11/18/2024	11:22
COMP-2	P4852-02	VD080069.D	11/18/2024	15:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020337.D BFB Injection Date: 11/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 14:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	55.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (0.9) 1
174	50.0 - 100.0% of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.4 (7.8) 1
176	95.0 - 101.0% of mass 174	79 (96.8) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 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
VSTDICC005	VSTDICC005	VY020338.D	11/19/2024	15:49
VSTDICC010	VSTDICC010	VY020339.D	11/19/2024	16:12
VSTDICC020	VSTDICC020	VY020340.D	11/19/2024	16:35
VSTDICC050	VSTDICC050	VY020341.D	11/19/2024	16:57
VSTDICC100	VSTDICC100	VY020342.D	11/19/2024	17:20
VSTDICC150	VSTDICC150	VY020343.D	11/19/2024	17:42

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020372.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:32

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.4 (95.6) 1
177	5.0 - 9.0% of mass 176	4.7 (6.7) 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
VSTDCCC050	VSTDCCC050	VY020373.D	11/21/2024	09:25
VY1121SBL01	VY1121SBL01	VY020374.D	11/21/2024	09:59
VY1121SBS01	VY1121SBS01	VY020375.D	11/21/2024	10:39
COMP-1	P4852-01	VY020377.D	11/21/2024	11:25
COMP-2RE	P4852-02RE	VY020378.D	11/21/2024	11:49
COMP-3	P4852-03	VY020379.D	11/21/2024	12:12

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080058.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_D Time Analyzed: 09:51

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	175845	7.88	262205	8.78	246582	11.58
UPPER LIMIT	351690	8.375	524410	9.281	493164	12.081
LOWER LIMIT	87922.5	7.375	131103	8.281	123291	11.081
EPA SAMPLE NO.						
COMP-2	10618 *	7.88	22667 *	8.78	22496 *	11.58
VD1118SBL01	175706	7.88	294729	8.78	273326	11.58
VD1118SBS01	178101	7.88	282863	8.78	258933	11.58
VD1118SBSD01	185362	7.88	285036	8.78	278035	11.58

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: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VD080058.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_D Time Analyzed: 09:51

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	138959		13.516				
UPPER LIMIT	277918		14.016				
LOWER LIMIT	69479.5		13.016				
EPA SAMPLE NO.							
COMP-2	10070	*	13.52				
VD1118SBL01	122131		13.52				
VD1118SBS01	141556		13.52				
VD1118SBSD01	143766		13.52				

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020373.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	191018	7.71	313957	8.62	263957	11.42
UPPER LIMIT	382036	8.213	627914	9.122	527914	11.92
LOWER LIMIT	95509	7.213	156979	8.122	131979	10.92
EPA SAMPLE NO.						
COMP-1	137407	7.71	264667	8.62	248534	11.42
COMP-2RE	60112 *	7.71	106378 *	8.62	90999 *	11.42
COMP-3	134247	7.71	257659	8.62	237210	11.41
VY1121SBL01	139506	7.71	270751	8.62	245370	11.42
VY1121SBS01	180247	7.71	303523	8.62	255135	11.42

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: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG NO.: P4852

Lab File ID: VY020373.D Date Analyzed: 11/21/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	121826		13.352				
UPPER LIMIT	243652		13.852				
LOWER LIMIT	60913		12.852				
EPA SAMPLE NO.							
COMP-1	91897		13.35				
COMP-2RE	32365	*	13.35				
COMP-3	92815		13.35				
VY1121SBL01	89046		13.35				
VY1121SBS01	121310		13.35				

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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Webster School	Date Received:	
Client Sample ID:	VD1118SBL01	SDG No.:	P4852
Lab Sample ID:	VD1118SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080059.D	1		11/18/24 10:27	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		50 - 163	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		54 - 147	98%	SPK: 50
2037-26-5	Toluene-d8	44.4		58 - 134	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		29 - 146	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	7.875			
540-36-3	1,4-Difluorobenzene	295000	8.781			
3114-55-4	Chlorobenzene-d5	273000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	122000	13.516			

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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Webster School	Date Received:	
Client Sample ID:	VY1121SBL01	SDG No.:	P4852
Lab Sample ID:	VY1121SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020374.D	1		11/21/24 09:59	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		50 - 163	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	48.2		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		29 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.713			
540-36-3	1,4-Difluorobenzene	271000	8.616			
3114-55-4	Chlorobenzene-d5	245000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	89000	13.353			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Webster School	Date Received:	
Client Sample ID:	VD1118SBS01	SDG No.:	P4852
Lab Sample ID:	VD1118SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080060.D	1		11/18/24 10:55	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	18.4		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.78	5.00	ug/Kg
71-43-2	Benzene	19.3		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
108-88-3	Toluene	19.5		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.5		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	58.4		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	18.5		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		50 - 163	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	51.0		58 - 134	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		29 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	7.875			
540-36-3	1,4-Difluorobenzene	283000	8.775			
3114-55-4	Chlorobenzene-d5	259000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.516			

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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Webster School	Date Received:	
Client Sample ID:	VY1121SBS01	SDG No.:	P4852
Lab Sample ID:	VY1121SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020375.D	1		11/21/24 10:39	VY112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	18.9		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.78	5.00	ug/Kg
71-43-2	Benzene	19.6		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	19.3		0.75	5.00	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	58.7		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	18.4		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.0		50 - 163	92%	SPK: 50
1868-53-7	Dibromofluoromethane	43.7		54 - 147	87%	SPK: 50
2037-26-5	Toluene-d8	43.3		58 - 134	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		29 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	7.713			
540-36-3	1,4-Difluorobenzene	304000	8.616			
3114-55-4	Chlorobenzene-d5	255000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.352			

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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Webster School	Date Received:	
Client Sample ID:	VD1118SBSD01	SDG No.:	P4852
Lab Sample ID:	VD1118SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD080061.D	1		11/18/24 11:22	VD111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	20.3		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.78	5.00	ug/Kg
71-43-2	Benzene	20.8		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.75	5.00	ug/Kg
108-88-3	Toluene	21.3		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	59.2		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		50 - 163	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	50.0		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		29 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.875			
540-36-3	1,4-Difluorobenzene	285000	8.781			
3114-55-4	Chlorobenzene-d5	278000	11.581			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.516			

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
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D = Dilution
() = Laboratory InHouse Limit
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: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD080020.D RRF010 = VD080021.D RRF020 = VD080022.D
RRF050 = VD080023.D RRF100 = VD080024.D RRF150 = VD080025.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
cis-1,2-Dichloroethene	0.665	0.649	0.620	0.656	0.675	0.679	0.657	3.2
1,1,1-Trichloroethane	0.970	0.930	0.851	0.869	0.864	0.867	0.892	5.3
Benzene	1.391	1.430	1.351	1.436	1.439	1.463	1.418	2.8
Trichloroethene	0.378	0.389	0.341	0.361	0.361	0.372	0.367	4.5
Toluene	0.814	0.864	0.823	0.917	0.927	0.945	0.881	6.4
Ethyl Benzene	1.740	1.714	1.693	1.866	1.965	2.002	1.830	7.3
m/p-Xylenes	0.647	0.688	0.683	0.727	0.766	0.780	0.715	7.2
o-Xylene	0.542	0.595	0.604	0.670	0.720	0.726	0.643	11.5
Isopropylbenzene	3.045	3.093	2.974	3.271	3.463	3.501	3.224	6.9
1,2-Dichloroethane-d4	0.554	0.532	0.451	0.526	0.504	0.523	0.515	6.8
Dibromofluoromethane	0.335	0.357	0.285	0.338	0.329	0.354	0.333	7.8
Toluene-d8	1.162	1.249	1.087	1.330	1.303	1.393	1.254	9
4-Bromofluorobenzene	0.388	0.392	0.353	0.435	0.437	0.464	0.411	9.9

* 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.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_Y Calibration Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Calibration Time(s): 15:49 17:42

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY020338.D RRF010 = VY020339.D RRF020 = VY020340.D
RRF050 = VY020341.D RRF100 = VY020342.D RRF150 = VY020343.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
cis-1,2-Dichloroethene	0.710	0.664	0.643	0.687	0.647	0.653	0.667	3.9
1,1,1-Trichloroethane	1.068	1.042	0.941	0.997	0.940	0.982	0.995	5.3
Benzene	1.632	1.376	1.440	1.348	1.378	1.435	1.435	7.2
Trichloroethene	0.388	0.331	0.343	0.320	0.318	0.339	0.340	7.5
Toluene	0.970	0.836	0.890	0.850	0.829	0.889	0.877	6
Ethyl Benzene	2.319	1.973	2.002	2.051	1.932	2.063	2.057	6.7
m/p-Xylenes	0.829	0.725	0.742	0.708	0.696	0.745	0.741	6.4
o-Xylene	0.770	0.694	0.711	0.668	0.666	0.706	0.703	5.4
Isopropylbenzene	4.851	4.028	4.070	4.314	3.899	4.251	4.236	8
1,2-Dichloroethane-d4	0.609	0.523	0.545	0.636	0.563	0.571	0.574	7.3
Dibromofluoromethane	0.346	0.347	0.307	0.323	0.288	0.312	0.321	7.2
Toluene-d8	1.397	1.186	1.208	1.398	1.130	1.259	1.263	8.9
4-Bromofluorobenzene	0.459	0.381	0.384	0.430	0.369	0.413	0.406	8.5

* 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.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_D Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VD080058.D Init. Calib. Date(s): 11/14/2024 11/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 18:02 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.663	0.682		2.87	20
1,1,1-Trichloroethane	0.906	0.953		5.19	20
Benzene	1.463	1.574		7.59	20
Trichloroethene	0.378	0.403		6.61	20
Toluene	0.910	1.039		14.18	20
Ethyl Benzene	1.863	2.115		13.53	20
m/p-Xylenes	0.731	0.835		14.23	20
o-Xylene	0.661	0.755		14.22	20
Isopropylbenzene	3.255	3.560		9.37	20
1,2-Dichloroethane-d4	0.514	0.514		0	20
Dibromofluoromethane	0.334	0.359		7.49	20
Toluene-d8	1.259	1.382		9.77	20
4-Bromofluorobenzene	0.418	0.467		11.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4852 SAS No.: P4852 SDG No.: P4852

Instrument ID: MSVOA_Y Calibration Date/Time: 11/21/2024 09:25

Lab File ID: VY020373.D Init. Calib. Date(s): 11/19/2024 11/19/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:49 17:42

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.667	0.667		0	20
1,1,1-Trichloroethane	0.995	1.042		4.72	20
Benzene	1.435	1.479		3.07	20
Trichloroethene	0.340	0.348		2.35	20
Toluene	0.877	0.905		3.19	20
Ethyl Benzene	2.057	2.103		2.24	20
m/p-Xylenes	0.741	0.763		2.97	20
o-Xylene	0.703	0.723		2.85	20
Isopropylbenzene	4.236	4.245		0.21	20
1,2-Dichloroethane-d4	0.574	0.598		4.18	20
Dibromofluoromethane	0.321	0.316		-1.56	20
Toluene-d8	1.263	1.242		-1.66	20
4-Bromofluorobenzene	0.406	0.415		2.22	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.