

LAB CHRONICLE

OrderID:	Q1889	OrderDate:	4/25/2025 11:06:00 AM
Client:	Kleinfelder	Project:	Mitchell School
Contact:	Mark Warchol	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1889-01	COMP-1	SOIL	VOCMS Group1	8260D	04/24/25		04/28/25	04/25/25
Q1889-02	COMP-2	SOIL	VOCMS Group1	8260D	04/24/25		04/28/25	04/25/25
Q1889-03	COMP-3	SOIL	VOCMS Group1	8260D	04/24/25		04/28/25	04/25/25



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

Hit Summary Sheet
SW-846

SDG No.: Q1889
Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:				0				
Total Voc :								
Total Concentration:								



SAMPLE DATA

Report of Analysis

Client:	Kleinfelder	Date Collected:	04/24/25
Project:	Mitchell School	Date Received:	04/25/25
Client Sample ID:	COMP-1	SDG No.:	Q1889
Lab Sample ID:	Q1889-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.5
Sample Wt/Vol:	5.7 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
VY022032.D	1		04/28/25 15:28	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
1330-20-7	Total Xylenes	2.17	U	2.17	15.9	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		63 - 155	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.6		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	305000	7.713			
540-36-3	1,4-Difluorobenzene	585000	8.616			
3114-55-4	Chlorobenzene-d5	528000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	199000	13.346			

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	04/24/25
Project:	Mitchell School	Date Received:	04/25/25
Client Sample ID:	COMP-2	SDG No.:	Q1889
Lab Sample ID:	Q1889-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.5
Sample Wt/Vol:	5.69 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
VY022033.D	1		04/28/25 15:52	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.82	U	0.82	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.50	ug/Kg
71-43-2	Benzene	0.86	U	0.86	5.50	ug/Kg
79-01-6	Trichloroethene	0.88	U	0.88	5.50	ug/Kg
108-88-3	Toluene	0.85	U	0.85	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.50	ug/Kg
1330-20-7	Total Xylenes	2.30	U	2.30	16.4	ug/Kg
98-82-8	Isopropylbenzene	0.85	U	0.85	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.6		63 - 155	113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	48.2		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.8		38 - 136	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	299000	7.707			
540-36-3	1,4-Difluorobenzene	578000	8.616			
3114-55-4	Chlorobenzene-d5	517000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	194000	13.346			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	04/24/25
Project:	Mitchell School	Date Received:	04/25/25
Client Sample ID:	COMP-3	SDG No.:	Q1889
Lab Sample ID:	Q1889-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	80.7
Sample Wt/Vol:	5.4 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
VY022034.D	1		04/28/25 16:15	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.86	U	0.86	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.70	ug/Kg
71-43-2	Benzene	0.91	U	0.91	5.70	ug/Kg
79-01-6	Trichloroethene	0.93	U	0.93	5.70	ug/Kg
108-88-3	Toluene	0.89	U	0.89	5.70	ug/Kg
100-41-4	Ethyl Benzene	0.77	U	0.77	5.70	ug/Kg
1330-20-7	Total Xylenes	2.34	U	2.34	17.2	ug/Kg
98-82-8	Isopropylbenzene	0.89	U	0.89	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		63 - 155	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	48.6		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.2		38 - 136	76%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	308000	7.707			
540-36-3	1,4-Difluorobenzene	582000	8.616			
3114-55-4	Chlorobenzene-d5	511000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	188000	13.346			

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

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q1889**

Client: **Kleinfelder**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1889-01	COMP-1	1,2-Dichloroethane-d4	50	54.1	108	63	155
		Dibromofluoromethane	50	52.0	104	70	134
		Toluene-d8	50	48.5	97	74	123
		4-Bromofluorobenzene	50	39.6	79	38	136
Q1889-02	COMP-2	1,2-Dichloroethane-d4	50	56.6	113	63	155
		Dibromofluoromethane	50	51.9	104	70	134
		Toluene-d8	50	48.2	96	74	123
		4-Bromofluorobenzene	50	39.8	80	38	136
Q1889-03	COMP-3	1,2-Dichloroethane-d4	50	54.0	108	63	155
		Dibromofluoromethane	50	50.7	101	70	134
		Toluene-d8	50	48.6	97	74	123
		4-Bromofluorobenzene	50	38.2	76	38	136
VY0428SBL01	VY0428SBL01	1,2-Dichloroethane-d4	50	51.3	103	63	155
		Dibromofluoromethane	50	50.8	102	70	134
		Toluene-d8	50	47.1	94	74	123
		4-Bromofluorobenzene	50	57.4	115	38	136
VY0428SBS01	VY0428SBS01	1,2-Dichloroethane-d4	50	49.5	99	63	155
		Dibromofluoromethane	50	50.8	101	70	134
		Toluene-d8	50	51.9	104	74	123
		4-Bromofluorobenzene	50	50.6	101	38	136
VY0428SBSD01	VY0428SBSD01	1,2-Dichloroethane-d4	50	48.0	96	63	155
		Dibromofluoromethane	50	50.0	100	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	48.8	98	38	136

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1889

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY022023.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0428SBS01	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100			82	123	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			80	126	
	Benzene	20	21.0	ug/Kg	105			84	121	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	Toluene	20	21.1	ug/Kg	106			83	122	
	Ethyl Benzene	20	20.0	ug/Kg	100			82	124	
	m/p-Xylenes	40	41.2	ug/Kg	103			83	124	
	o-Xylene	20	20.2	ug/Kg	101			83	123	
	Isopropylbenzene	20	19.5	ug/Kg	98			82	124	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1889
Client: Kleinfelder
Analytical Method: SW8260D

Datafile : VY022024.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0428SBSD01	cis-1,2-Dichloroethene	20	19.6	ug/Kg	98	2		82	123	20
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101	2		80	126	20
	Benzene	20	20.4	ug/Kg	102	3		84	121	20
	Trichloroethene	20	20.5	ug/Kg	103	1		83	122	20
	Toluene	20	20.7	ug/Kg	104	2		83	122	20
	Ethyl Benzene	20	19.7	ug/Kg	99	1		82	124	20
	m/p-Xylenes	40	40.4	ug/Kg	101	2		83	124	20
	o-Xylene	20	19.9	ug/Kg	100	1		83	123	20
	Isopropylbenzene	20	19.5	ug/Kg	98	0		82	124	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0428SBL01

Lab Name: CHEMTECH

Contract: POWE02

Lab Code: CHEM Case No.: Q1889

SAS No.: Q1889 SDG NO.: Q1889

Lab File ID: VY022022.D

Lab Sample ID: VY0428SBL01

Date Analyzed: 04/28/2025

Time Analyzed: 11:08

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
VY0428SBS01	VY0428SBS01	VY022023.D	04/28/2025
VY0428SBSD01	VY0428SBSD01	VY022024.D	04/28/2025
COMP-1	Q1889-01	VY022032.D	04/28/2025
COMP-2	Q1889-02	VY022033.D	04/28/2025
COMP-3	Q1889-03	VY022034.D	04/28/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: Q1889 SAS No.: Q1889 SDG NO.: Q1889
Lab File ID: VY021952.D BFB Injection Date: 04/22/2025
Instrument ID: MSVOA_Y BFB Injection Time: 11:33
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	16.9
75	30.0 - 60.0% of mass 95	49.7
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	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	7.1 (8) 1
176	95.0 - 101.0% of mass 174	84.9 (96.1) 1
177	5.0 - 9.0% of mass 176	5.5 (6.4) 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
VSTDIC005	VSTDIC005	VY021953.D	04/22/2025	13:39
VSTDIC010	VSTDIC010	VY021954.D	04/22/2025	14:44
VSTDIC020	VSTDIC020	VY021955.D	04/22/2025	15:07
VSTDIC050	VSTDIC050	VY021956.D	04/22/2025	15:29
VSTDIC100	VSTDIC100	VY021957.D	04/22/2025	15:52
VSTDIC150	VSTDIC150	VY021958.D	04/22/2025	16:15

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: Q1889 SAS No.: Q1889 SDG NO.: Q1889
Lab File ID: VY022020.D BFB Injection Date: 04/28/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:29
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	16.1
75	30.0 - 60.0% of mass 95	47.8
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	1.6 (1.8) 1
174	50.0 - 100.0% of mass 95	88.6
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	85.9 (96.9) 1
177	5.0 - 9.0% of mass 176	5.3 (6.2) 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	VY022021.D	04/28/2025	09:59
VY0428SBL01	VY0428SBL01	VY022022.D	04/28/2025	11:08
VY0428SBS01	VY0428SBS01	VY022023.D	04/28/2025	11:40
VY0428SBSD01	VY0428SBSD01	VY022024.D	04/28/2025	12:02
COMP-1	Q1889-01	VY022032.D	04/28/2025	15:28
COMP-2	Q1889-02	VY022033.D	04/28/2025	15:52
COMP-3	Q1889-03	VY022034.D	04/28/2025	16:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: Q1889 SAS No.: Q1889 SDG NO.: Q1889
Lab File ID: VY022021.D Date Analyzed: 04/28/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:59
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	316866	7.71	463292	8.62	436582	11.42
UPPER LIMIT	633732	8.207	926584	9.116	873164	11.92
LOWER LIMIT	158433	7.207	231646	8.116	218291	10.92
EPA SAMPLE NO.						
COMP-1	304513	7.71	584934	8.62	527708	11.42
COMP-2	299025	7.71	578464	8.62	516589	11.41
COMP-3	307550	7.71	581856	8.62	511479	11.41
VY0428SBL01	311923	7.71	578371	8.62	493590	11.42
VY0428SBS01	288803	7.71	451635	8.62	414911	11.41
VY0428SBSD01	304169	7.71	466723	8.62	430101	11.41

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
 Lab Code: CHEM Case No.: Q1889 SAS No.: Q1889 SDG NO.: Q1889
 Lab File ID: VY022021.D Date Analyzed: 04/28/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:59
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	238558	13.346				
UPPER LIMIT	477116	13.846				
LOWER LIMIT	119279	12.846				
EPA SAMPLE NO.						
COMP-1	198753	13.35				
COMP-2	194154	13.35				
COMP-3	188250	13.35				
VY0428SBL01	183874	13.35				
VY0428SBS01	223411	13.35				
VY0428SBSD01	228742	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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Mitchell School	Date Received:	
Client Sample ID:	VY0428SBL01	SDG No.:	Q1889
Lab Sample ID:	VY0428SBL01	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
VY022022.D	1		04/28/25 11:08	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	2.02	U	2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	47.1		74 - 123	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.4		38 - 136	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	7.713			
540-36-3	1,4-Difluorobenzene	578000	8.616			
3114-55-4	Chlorobenzene-d5	494000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.346			

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Mitchell School	Date Received:	
Client Sample ID:	VY0428SBS01	SDG No.:	Q1889
Lab Sample ID:	VY0428SBS01	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
VY022023.D	1		04/28/25 11:40	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.9		0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.93	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	5.00	ug/Kg
108-88-3	Toluene	21.1		0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	61.4		2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.9		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		38 - 136	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.707			
540-36-3	1,4-Difluorobenzene	452000	8.616			
3114-55-4	Chlorobenzene-d5	415000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	223000	13.347			

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Mitchell School	Date Received:	
Client Sample ID:	VY0428SBSD01	SDG No.:	Q1889
Lab Sample ID:	VY0428SBSD01	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
VY022024.D	1		04/28/25 12:02	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.6		0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	60.3		2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		38 - 136	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	467000	8.616			
3114-55-4	Chlorobenzene-d5	430000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	229000	13.347			

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>CHEMTECH</u>	Contract: <u>POWE02</u>
Lab Code: <u>CHEM</u> Case No.: <u>Q1889</u>	SAS No.: <u>Q1889</u> SDG No.: <u>Q1889</u>
Instrument ID: <u>MSVOA_Y</u>	Calibration Date(s): <u>04/22/2025</u> <u>04/22/2025</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>13:39</u> <u>16:15</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF005 = VY021953.D		RRF010 = VY021954.D		RRF020 = VY021955.D		
		RRF050 = VY021956.D		RRF100 = VY021957.D		RRF150 = VY021958.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
cis-1,2-Dichloroethene	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.1
1,1,1-Trichloroethane	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.8
Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.1
Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.3
Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.4
Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.1
m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.3
o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.3
Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.2
1,2-Dichloroethane-d4	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.3
Dibromofluoromethane	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.3
Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2
4-Bromofluorobenzene	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.8

* 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.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: Q1889 SAS No.: Q1889 SDG No.: Q1889

Instrument ID: MSVOA_Y Calibration Date/Time: 04/28/2025 09:59

Lab File ID: VY022021.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.622	0.571		-8.2	20
1,1,1-Trichloroethane	0.896	0.830		-7.37	20
Benzene	1.387	1.363		-1.73	20
Trichloroethene	0.384	0.372		-3.13	20
Toluene	0.898	0.912		1.56	20
Ethyl Benzene	1.829	1.803		-1.42	20
m/p-Xylenes	0.728	0.739		1.51	20
o-Xylene	0.671	0.674		0.45	20
Isopropylbenzene	3.341	3.228		-3.38	20
1,2-Dichloroethane-d4	0.462	0.422		-8.66	20
Dibromofluoromethane	0.330	0.326		-1.21	20
Toluene-d8	1.245	1.244		-0.08	20
4-Bromofluorobenzene	0.419	0.422		0.72	20

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