

LAB CHRONICLE

OrderID:	Q3551	OrderDate:	11/5/2025 2:16:00 PM
Client:	Spectra East Inc.	Project:	Outfall 001 - Orangetown Dis Permit 2025
Contact:	Jacob Valeich	Location:	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3551-01	MANHOLE	Water	VOCMS Group1	624.1	11/05/25		11/14/25	11/05/25



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

Hit Summary Sheet
SW-846

SDG No.: Q3551
Client: Spectra East Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q3551-01	MANHOLE MANHOLE	Water	Chloroform	3.40	J	0.55	5.00	ug/L
			Total Voc :	3.40				
			Total Concentration:	3.40				



SAMPLE DATA

Report of Analysis

Client: Spectra East Inc.
Project: Outfall 001 - Orangetown Dis Permit 2025
Client Sample ID: MANHOLE
Lab Sample ID: Q3551-01
Analytical Method: E624.1
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/05/25
Date Received: 11/05/25
SDG No.: Q3551
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-09-2	Methylene Chloride	0.86	U	1	0.86	5.00	ug/L	11/14/25 12:15	VN111425
156-60-5	trans-1,2-Dichloroethene	0.82	U	1	0.82	5.00	ug/L	11/14/25 12:15	VN111425
67-66-3	Chloroform	3.40	J	1	0.55	5.00	ug/L	11/14/25 12:15	VN111425
71-55-6	1,1,1-Trichloroethane	0.63	U	1	0.63	5.00	ug/L	11/14/25 12:15	VN111425
79-01-6	Trichloroethene	0.49	U	1	0.49	5.00	ug/L	11/14/25 12:15	VN111425
108-88-3	Toluene	0.46	U	1	0.46	5.00	ug/L	11/14/25 12:15	VN111425
127-18-4	Tetrachloroethene	0.84	U	1	0.84	5.00	ug/L	11/14/25 12:15	VN111425
100-41-4	Ethyl Benzene	0.56	U	1	0.56	5.00	ug/L	11/14/25 12:15	VN111425
1330-20-7	Total Xylenes	1.97	U	1	1.97	15.0	ug/L	11/14/25 12:15	VN111425
541-73-1	1,3-Dichlorobenzene	0.67	U	1	0.67	5.00	ug/L	11/14/25 12:15	VN111425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	28.4			91 - 110	95%	SPK: 30		
2037-26-5	Toluene-d8	29.4			91 - 112	98%	SPK: 30		
460-00-4	4-Bromofluorobenzene	26.0			63 - 112	87%	SPK: 30		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	53500							
540-36-3	1,4-Difluorobenzene	280000							
3114-55-4	Chlorobenzene-d5	245000							

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

Surrogate Summary

SDG No.: Q3551

Client: Spectra East Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3551-01	MANHOLE	1,2-Dichloroethane-d4	30	28.4	95		91	110
		Toluene-d8	30	29.4	98		91	112
		4-Bromofluorobenzene	30	26.0	87		63	112
VN1114WBL01	VN1114WBL01	1,2-Dichloroethane-d4	30	30.6	102		91	110
		Toluene-d8	30	29.6	98		91	112
		4-Bromofluorobenzene	30	26.5	88		63	112
VN1114WBS01	VN1114WBS01	1,2-Dichloroethane-d4	30	29.7	99		91	110
		Toluene-d8	30	30.5	102		91	112
		4-Bromofluorobenzene	30	29.6	99		63	112
VN1114WBSD0	VN1114WBSD01	1,2-Dichloroethane-d4	30	29.5	98		91	110
		Toluene-d8	30	30.6	102		91	112
		4-Bromofluorobenzene	30	29.9	100		63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3551</u>	Analytical Method:	<u>SW624.1</u>
Client:	<u>Spectra East Inc.</u>	Datafile :	<u>VN088283.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1114WBS01	Methylene Chloride	20	20.5	ug/L	103			60	140	
	trans-1,2-Dichloroethene	20	19.1	ug/L	96			70	130	
	Chloroform	20	19.4	ug/L	97			70	135	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			70	130	
	Trichloroethene	20	19.3	ug/L	97			65	135	
	Toluene	20	19.7	ug/L	99			70	130	
	Tetrachloroethene	20	18.7	ug/L	94			70	130	
	Ethyl Benzene	20	19.2	ug/L	96			60	140	
	m/p-Xylenes	40	38.7	ug/L	97			87	111	
	o-Xylene	20	18.9	ug/L	95			87	111	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3551</u>	Analytical Method:	<u>SW624.1</u>
Client:	<u>Spectra East Inc.</u>	Datafile :	<u>VN088284.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN1114WBSD01	Methylene Chloride	20	19.6	ug/L	98	5		60	140	20
	trans-1,2-Dichloroethene	20	19.2	ug/L	96	0		70	130	20
	Chloroform	20	19.5	ug/L	98	1		70	135	20
	1,1,1-Trichloroethane	20	19.3	ug/L	97	2		70	130	20
	Trichloroethene	20	19.5	ug/L	98	1		65	135	20
	Toluene	20	20.0	ug/L	100	1		70	130	20
	Tetrachloroethene	20	20.0	ug/L	100	6		70	130	20
	Ethyl Benzene	20	19.6	ug/L	98	2		60	140	20
	m/p-Xylenes	40	38.6	ug/L	97	0		87	111	20
	o-Xylene	20	19.6	ug/L	98	3		87	111	20
	1,3-Dichlorobenzene	20	19.9	ug/L	100	3		70	130	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1114WBL01

Lab Name: Alliance

Contract: SPEC01

Lab Code: ACE

SDG NO.: Q3551

Lab File ID: VN088285.D

Lab Sample ID: VN1114WBL01

Date Analyzed: 11/14/2025

Time Analyzed: 10:38

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1114WBS01	VN1114WBS01	VN088283.D	11/14/2025
VN1114WBSD01	VN1114WBSD01	VN088284.D	11/14/2025
MANHOLE	Q3551-01	VN088289.D	11/14/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: SPEC01

Lab Code: ACE

SDG NO.: Q3551

Lab File ID: VN088273.D

BFB Injection Date: 11/13/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:08

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.3 (96.7) 1
177	5.0 - 9.0% of mass 176	4.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC005	VSTDICCC005	VN088274.D	11/13/2025	10:14
VSTDICCC020	VSTDICCC020	VN088275.D	11/13/2025	10:47
VSTDICCC050	VSTDICCC050	VN088276.D	11/13/2025	11:08
VSTDICCC100	VSTDICCC100	VN088277.D	11/13/2025	11:29
VSTDICCC150	VSTDICCC150	VN088278.D	11/13/2025	11:50

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: SPEC01

Lab Code: ACE

SDG NO.: Q3551

Lab File ID: VN088281.D

BFB Injection Date: 11/14/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:34

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	57.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	67.8 (95.5) 1
177	5.0 - 9.0% of mass 176	4.3 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN088282.D	11/14/2025	09:07
VN1114WBS01	VN1114WBS01	VN088283.D	11/14/2025	09:41
VN1114WBSD01	VN1114WBSD01	VN088284.D	11/14/2025	10:17
VN1114WBL01	VN1114WBL01	VN088285.D	11/14/2025	10:38
MANHOLE	Q3551-01	VN088289.D	11/14/2025	12:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: SPEC01
Lab Code: ACE SDG NO.: Q3551
Lab File ID: VN088282.D Date Analyzed: 11/14/2025
Instrument ID: MSVOA_N Time Analyzed: 09:07
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	56753	7.79	292349	9.08	258679	11.85
UPPER LIMIT	113506	8.294	584698	9.582	517358	12.347
LOWER LIMIT	28376.5	7.294	146175	8.582	129340	11.347
EPA SAMPLE NO.						
MANHOLE	53480	7.79	279713	9.08	245018	11.84
VN1114WBL01	53945	7.79	285107	9.08	248105	11.84
VN1114WBS01	59304	7.79	313554	9.08	280371	11.84
VN1114WBSD01	57783	7.79	307983	9.08	272076	11.85

IS1 = Bromochloromethane
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.



QC SAMPLE DATA

Report of Analysis

Client: Spectra East Inc.
Project: Outfall 001 - Orangetown Dis Permit 2025
Client Sample ID: VN1114WBL01
Lab Sample ID: VN1114WBL01
Analytical Method: E624.1
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3551
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-09-2	Methylene Chloride	0.86	U	1	0.86	5.00	ug/L	11/14/25 10:38	VN111425
156-60-5	trans-1,2-Dichloroethene	0.82	U	1	0.82	5.00	ug/L	11/14/25 10:38	VN111425
67-66-3	Chloroform	0.55	U	1	0.55	5.00	ug/L	11/14/25 10:38	VN111425
71-55-6	1,1,1-Trichloroethane	0.63	U	1	0.63	5.00	ug/L	11/14/25 10:38	VN111425
79-01-6	Trichloroethene	0.49	U	1	0.49	5.00	ug/L	11/14/25 10:38	VN111425
108-88-3	Toluene	0.46	U	1	0.46	5.00	ug/L	11/14/25 10:38	VN111425
127-18-4	Tetrachloroethene	0.84	U	1	0.84	5.00	ug/L	11/14/25 10:38	VN111425
100-41-4	Ethyl Benzene	0.56	U	1	0.56	5.00	ug/L	11/14/25 10:38	VN111425
1330-20-7	Total Xylenes	1.97	U	1	1.97	15.0	ug/L	11/14/25 10:38	VN111425
541-73-1	1,3-Dichlorobenzene	0.67	U	1	0.67	5.00	ug/L	11/14/25 10:38	VN111425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	30.6			91 - 110	102%	SPK: 30		
2037-26-5	Toluene-d8	29.5			91 - 112	98%	SPK: 30		
460-00-4	4-Bromofluorobenzene	26.5			63 - 112	88%	SPK: 30		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	53900							
540-36-3	1,4-Difluorobenzene	285000							
3114-55-4	Chlorobenzene-d5	248000							

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: Spectra East Inc.
Project: Outfall 001 - Orangetown Dis Permit 2025
Client Sample ID: VN1114WBS01
Lab Sample ID: VN1114WBS01
Analytical Method: E624.1
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3551
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-09-2	Methylene Chloride	20.5		1	0.86	5.00	ug/L	11/14/25 09:41	VN111425
156-60-5	trans-1,2-Dichloroethene	19.1		1	0.82	5.00	ug/L	11/14/25 09:41	VN111425
67-66-3	Chloroform	19.4		1	0.55	5.00	ug/L	11/14/25 09:41	VN111425
71-55-6	1,1,1-Trichloroethane	19.0		1	0.63	5.00	ug/L	11/14/25 09:41	VN111425
79-01-6	Trichloroethene	19.3		1	0.49	5.00	ug/L	11/14/25 09:41	VN111425
108-88-3	Toluene	19.7		1	0.46	5.00	ug/L	11/14/25 09:41	VN111425
127-18-4	Tetrachloroethene	18.7		1	0.84	5.00	ug/L	11/14/25 09:41	VN111425
100-41-4	Ethyl Benzene	19.2		1	0.56	5.00	ug/L	11/14/25 09:41	VN111425
1330-20-7	Total Xylenes	57.6		1	1.97	15.0	ug/L	11/14/25 09:41	VN111425
541-73-1	1,3-Dichlorobenzene	19.4		1	0.67	5.00	ug/L	11/14/25 09:41	VN111425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	29.7			91 - 110	99%	SPK: 30		
2037-26-5	Toluene-d8	30.5			91 - 112	102%	SPK: 30		
460-00-4	4-Bromofluorobenzene	29.6			63 - 112	99%	SPK: 30		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	59300							
540-36-3	1,4-Difluorobenzene	314000							
3114-55-4	Chlorobenzene-d5	280000							

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client: Spectra East Inc.
Project: Outfall 001 - Orangetown Dis Permit 2025
Client Sample ID: VN1114WBSD01
Lab Sample ID: VN1114WBSD01
Analytical Method: E624.1
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3551
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-09-2	Methylene Chloride	19.6		1	0.86	5.00	ug/L	11/14/25 10:17	VN111425
156-60-5	trans-1,2-Dichloroethene	19.2		1	0.82	5.00	ug/L	11/14/25 10:17	VN111425
67-66-3	Chloroform	19.5		1	0.55	5.00	ug/L	11/14/25 10:17	VN111425
71-55-6	1,1,1-Trichloroethane	19.3		1	0.63	5.00	ug/L	11/14/25 10:17	VN111425
79-01-6	Trichloroethene	19.5		1	0.49	5.00	ug/L	11/14/25 10:17	VN111425
108-88-3	Toluene	20.0		1	0.46	5.00	ug/L	11/14/25 10:17	VN111425
127-18-4	Tetrachloroethene	20.0		1	0.84	5.00	ug/L	11/14/25 10:17	VN111425
100-41-4	Ethyl Benzene	19.6		1	0.56	5.00	ug/L	11/14/25 10:17	VN111425
1330-20-7	Total Xylenes	58.2		1	1.97	15.0	ug/L	11/14/25 10:17	VN111425
541-73-1	1,3-Dichlorobenzene	19.9		1	0.67	5.00	ug/L	11/14/25 10:17	VN111425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	29.5			91 - 110	98%	SPK: 30		
2037-26-5	Toluene-d8	30.5			91 - 112	102%	SPK: 30		
460-00-4	4-Bromofluorobenzene	29.9			63 - 112	100%	SPK: 30		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	57800							
540-36-3	1,4-Difluorobenzene	308000							
3114-55-4	Chlorobenzene-d5	272000							

U = Not Detected

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CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>SPEC01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3551</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date(s):	<u>11/13/2025</u> <u>11/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>10:14</u> <u>11:50</u>
GC Column:	<u>RXI-624</u> ID: <u>0.25</u> (mm)		

LAB FILE ID:		RRF005 = VN088274.D		RRF020 = VN088275.D		RRF050 = VN088276.D	
		RRF100 = VN088277.D		RRF150 = VN088278.D		RRF =	
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Methylene Chloride	2.165	2.098	1.983	1.998	2.009	2.050	3.8
trans-1,2-Dichloroethene	1.917	2.036	1.848	1.810	1.993	1.921	4.9
Chloroform	3.861	3.873	3.674	3.755	3.958	3.824	2.9
1,1,1-Trichloroethane	0.623	0.624	0.578	0.609	0.651	0.617	4.3
Trichloroethene	0.350	0.340	0.321	0.335	0.349	0.339	3.4
Toluene	1.716	1.777	1.619	1.714	1.782	1.722	3.8
Tetrachloroethene	0.305	0.329	0.295	0.297	0.321	0.309	4.8
Ethyl Benzene	1.763	1.927	1.813	1.933	2.052	1.897	6
m/p-Xylenes	0.660	0.723	0.687	0.718	0.760	0.710	5.4
o-Xylene	0.619	0.665	0.643	0.698	0.721	0.669	6.2
1,3-Dichlorobenzene	0.726	0.795	0.753	0.802	0.815	0.778	4.8
1,2-Dichloroethane-d4	2.725	2.740	2.769	2.745	2.723	2.740	0.7
Toluene-d8	1.418	1.455	1.418	1.385	1.426	1.420	1.8
4-Bromofluorobenzene	0.479	0.494	0.513	0.515	0.534	0.507	4.1

* 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:	<u>Alliance</u>	Contract:	<u>SPEC01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3551</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>11/14/2025</u> <u>09:07</u>
Lab File ID:	<u>VN088282.D</u>	Init. Calib. Date(s):	<u>11/13/2025</u> <u>11/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>10:14</u> <u>11:50</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Methylene Chloride	2.050	1.980		-3.41	
trans-1,2-Dichloroethene	1.921	1.763		-8.23	
Chloroform	3.824	3.550	0.2	-7.16	
1,1,1-Trichloroethane	0.617	0.568	0.1	-7.94	
Trichloroethene	0.339	0.323	0.3	-4.72	
Toluene	1.722	1.677	0.4	-2.61	
Tetrachloroethene	0.309	0.295	0.2	-4.53	
Ethyl Benzene	1.897	1.783	0.1	-6.01	
m/p-Xylenes	0.710	0.649	0.3	-8.59	
o-Xylene	0.669	0.625	0.3	-6.58	
1,3-Dichlorobenzene	0.778	0.743	0.2	-4.5	
1,2-Dichloroethane-d4	2.740	2.641	0.01	-3.61	
Toluene-d8	1.420	1.415	0.01	-0.35	
4-Bromofluorobenzene	0.507	0.504	0.2	-0.59	

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