

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121223\
 Data File : VU056822.D
 Acq On : 13 Dec 2023 07:03
 Operator : MD/SY
 Sample : 05684-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E06J2

Quant Time: Dec 13 07:32:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 13 01:32:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	265765	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	264375	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.814	152	149953	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	87003	3.819	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.400%
7) Chloroethane-d5	1.911	69	77440	4.543	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.800%
11) 1,1-Dichloroethene-d2	2.563	65	41826	4.291	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.800%
20) 2-Butanone-d5	4.615	46	224308	49.859	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.720%
24) Chloroform-d	5.055	84	201008	4.660	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
26) 1,2-Dichloroethane-d4	5.695	65	98038	4.803	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.000%
32) Benzene-d6	5.721	84	388163	4.734	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.600%
36) 1,2-Dichloropropane-d6	6.685	67	123731	4.821	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.400%
41) Toluene-d8	7.894	98	331733	4.526	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.600%
43) trans-1,3-Dichloroprop...	8.174	79	45508	4.572	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.400%
46) 2-Hexanone-d5	8.627	63	201991	53.806	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.620%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	92843	5.000	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.000%
66) 1,2-Dichlorobenzene-d4	12.196	152	136624	4.635	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.600%
Target Compounds						
12) 1,1-Dichloroethene	2.576	96	3303	0.153	ug/L #	1
13) Acetone	2.631	43	15383	5.611	ug/L	99
19) 1,1-Dichloroethane	3.869	63	12555	0.298	ug/L	94
22) cis-1,2-Dichloroethene	4.660	96	36378	1.529	ug/L	96
33) Benzene	5.769	78	12464	0.134	ug/L	100
34) Trichloroethene	6.537	95	275330	10.803	ug/L	99
45) 1,1,2-Trichloroethane	8.544	97	2834	0.176	ug/L #	8
47) Tetrachloroethene	8.547	164	281097	15.759	ug/L	96
48) 2-Hexanone	8.679	43	6289	0.782	ug/L #	83
49) Dibromochloromethane	8.547	129	289503	15.675	ug/L #	11
51) Chlorobenzene	9.441	112	2564793	41.858	ug/L	99
57) 1,1,2,2-Tetrachloroethane	11.048	83	14388	0.741	ug/L #	25
61) 1,2,3-Trichloropropane	11.746	75	5318514	330.321	ug/L #	49
64) 1,3-Dichlorobenzene	11.743	146	14755008	263.277	ug/L	97
65) 1,4-Dichlorobenzene	11.743	146	14755008	267.378	ug/L	98
69) 1,3,5-Trichlorobenzene	13.833	180	886987	20.946	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	886987	26.450	ug/L	99
72) 1,2,3-Trichlorobenzene	14.322	180	322241	11.319	ug/L	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121223\
Data File : VU056822.D
Acq On : 13 Dec 2023 07:03
Operator : MD/SY
Sample : 05684-06
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E06J2

Quant Time: Dec 13 07:32:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 13 01:32:29 2023
Response via : Initial Calibration

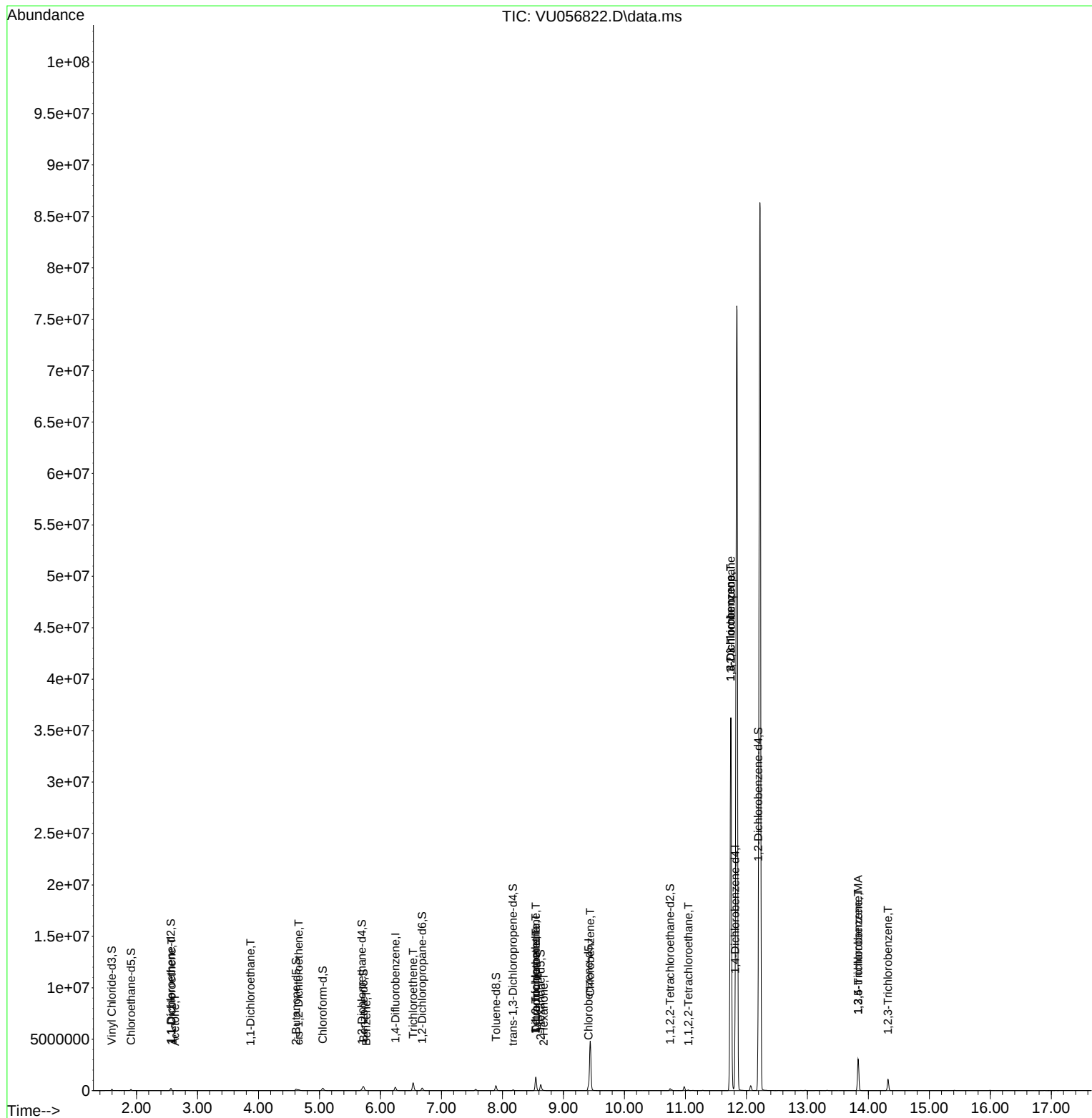
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

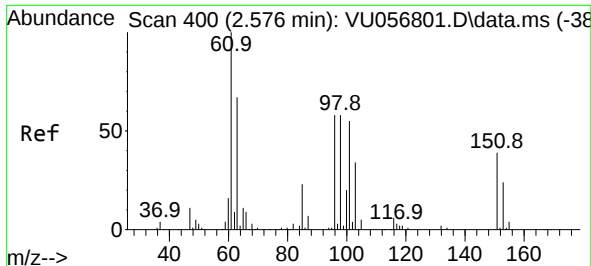
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121223\
Data File : VU056822.D
Acq On : 13 Dec 2023 07:03
Operator : MD/SY
Sample : 05684-06
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E06J2

Quant Time: Dec 13 07:32:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 13 01:32:29 2023
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.153 ug/L

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU056822.D

Acq: 13 Dec 2023 07:03

Instrument :

MSVOA_U

ClientSampleId :

E06J2

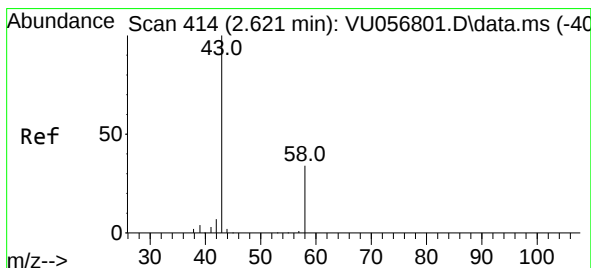
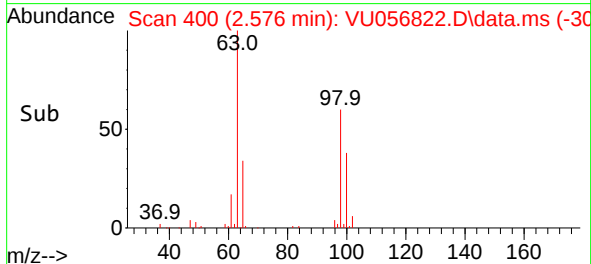
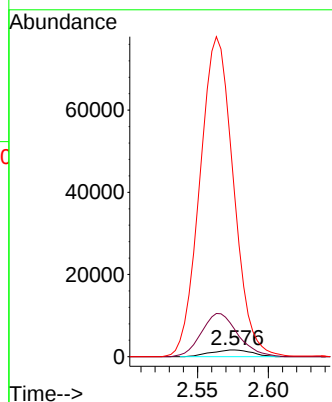
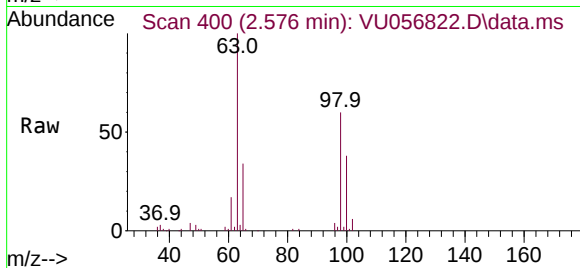
Tgt Ion: 96 Resp: 3303

Ion Ratio Lower Upper

96 100

61 405.9 119.0 221.0#

63 2404.4 88.7 164.7#



#13

Acetone

Concen: 5.611 ug/L

RT: 2.631 min Scan# 417

Delta R.T. 0.010 min

Lab File: VU056822.D

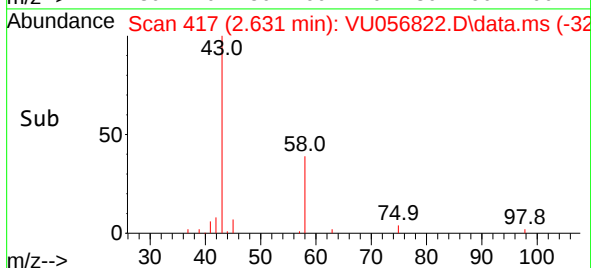
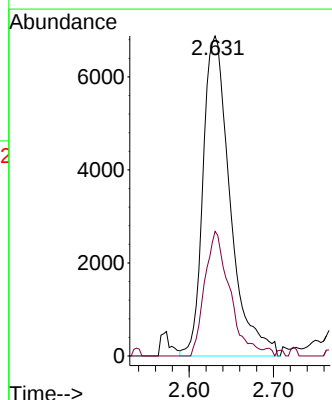
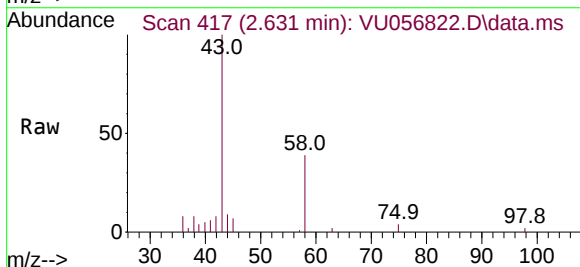
Acq: 13 Dec 2023 07:03

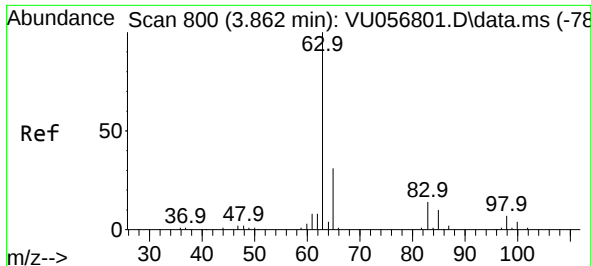
Tgt Ion: 43 Resp: 15383

Ion Ratio Lower Upper

43 100

58 35.9 0.0 72.6





#19

1,1-Dichloroethane

Concen: 0.298 ug/L

RT: 3.869 min Scan# 800

Delta R.T. 0.006 min

Lab File: VU056822.D

Acq: 13 Dec 2023 07:03

Instrument :

MSVOA_U

ClientSampleId :

E06J2

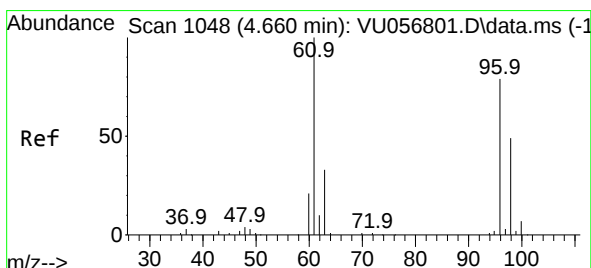
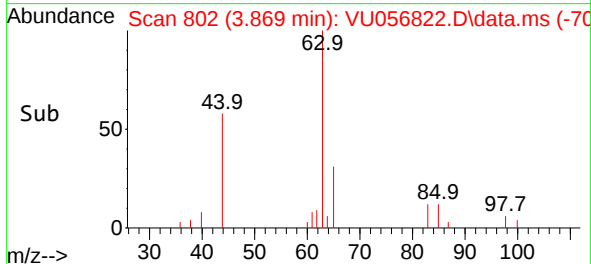
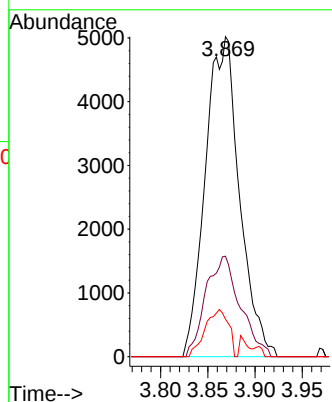
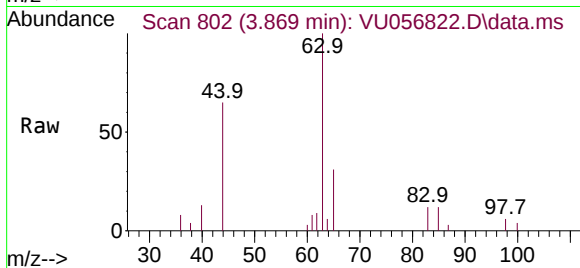
Tgt Ion: 63 Resp: 12555

Ion Ratio Lower Upper

63 100

65 29.7 22.9 42.5

83 11.1 10.1 18.9



#22

cis-1,2-Dichloroethene

Concen: 1.529 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. -0.000 min

Lab File: VU056822.D

Acq: 13 Dec 2023 07:03

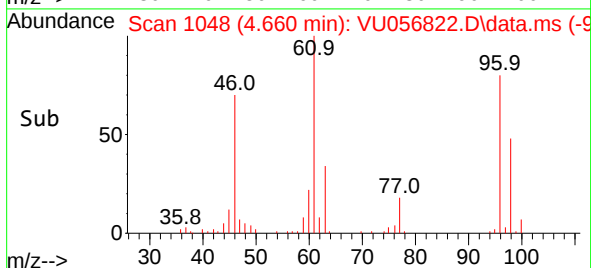
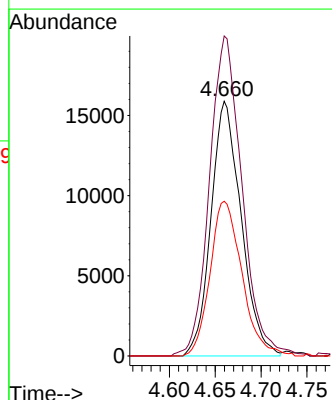
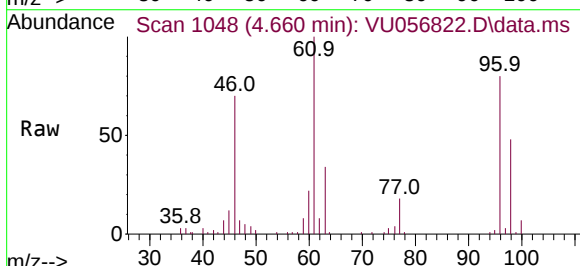
Tgt Ion: 96 Resp: 36378

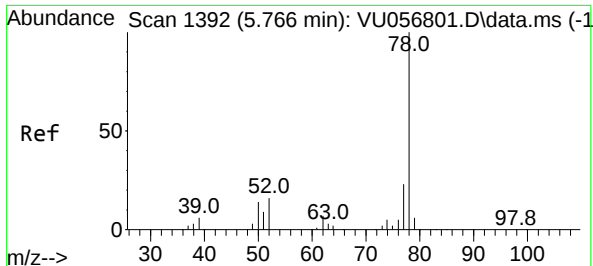
Ion Ratio Lower Upper

96 100

61 125.6 91.3 169.6

98 60.8 44.2 82.0

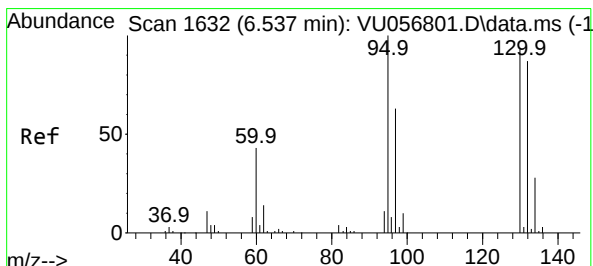
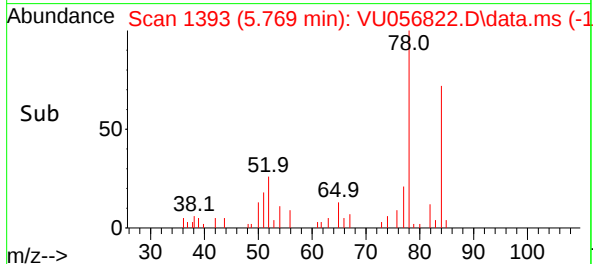
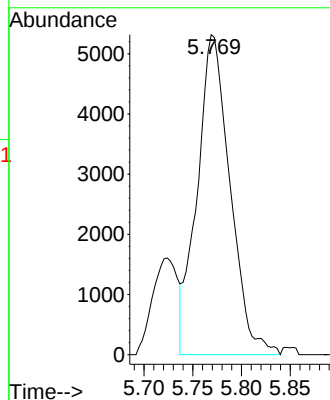
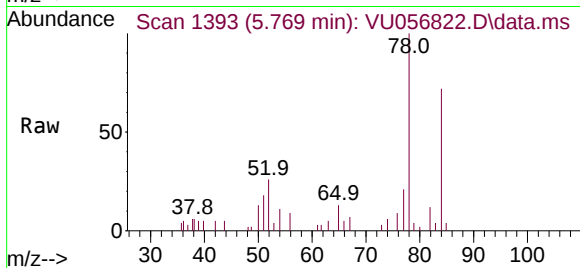




#33
Benzene
Concen: 0.134 ug/L
RT: 5.769 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Instrument :
MSVOA_U
ClientSampleId :
E06J2

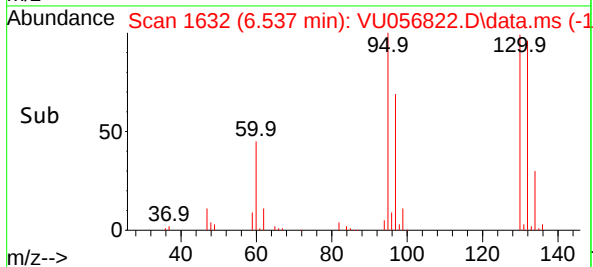
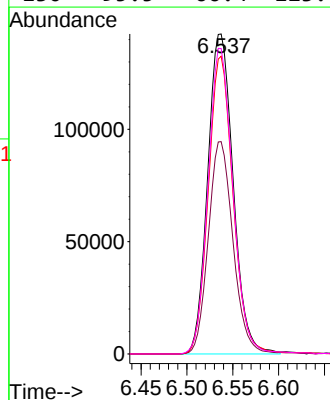
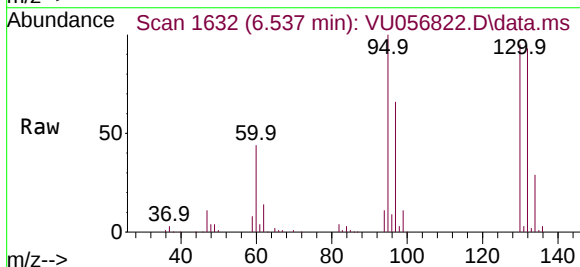
Tgt Ion: 78 Resp: 12464

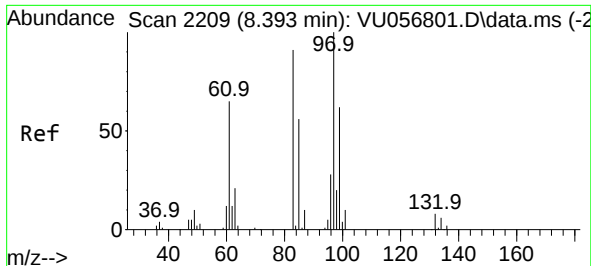


#34
Trichloroethene
Concen: 10.803 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Tgt Ion: 95 Resp: 275330

Ion	Ratio	Lower	Upper
95	100		
97	66.3	46.1	85.5
132	93.0	63.6	118.0
130	95.5	66.4	123.4





#45

1,1,2-Trichloroethane

Concen: 0.176 ug/L

RT: 8.544 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU056822.D

Acq: 13 Dec 2023 07:03

Instrument :

MSVOA_U

ClientSampleId :

E06J2

Tgt Ion: 97 Resp: 2834

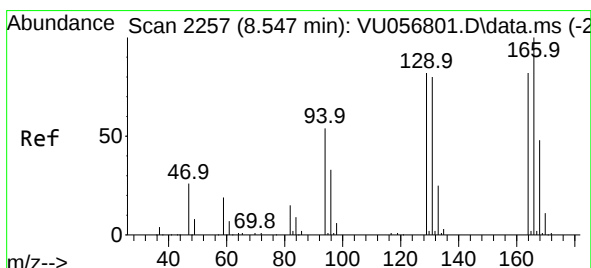
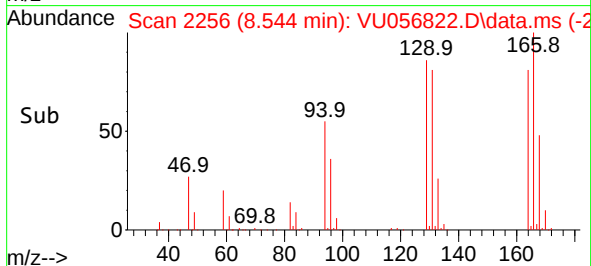
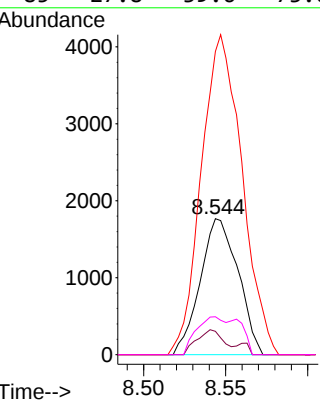
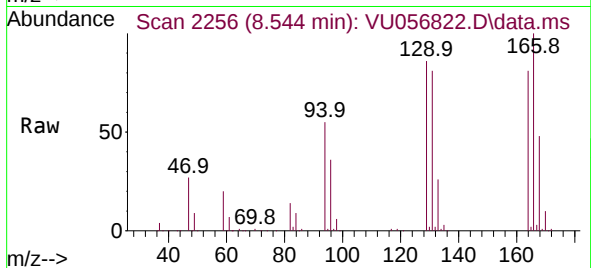
Ion Ratio Lower Upper

97 100

99 17.2 41.9 77.9#

83 222.9 59.1 109.7#

85 27.8 39.6 73.6#



#47

Tetrachloroethene

Concen: 15.759 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VU056822.D

Acq: 13 Dec 2023 07:03

Tgt Ion:164 Resp: 281097

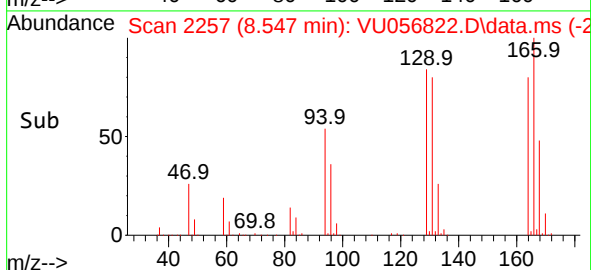
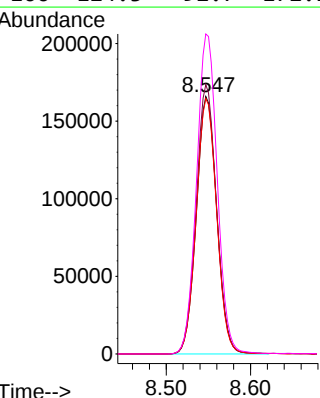
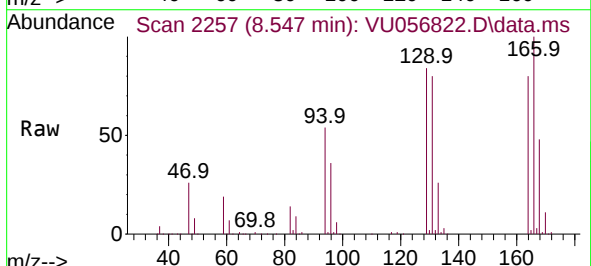
Ion Ratio Lower Upper

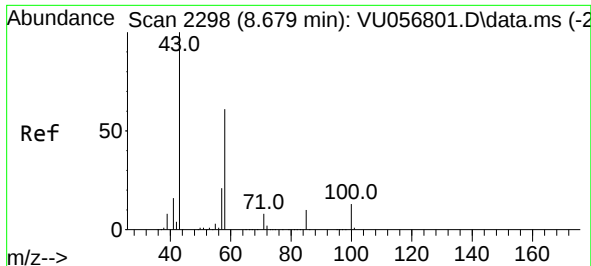
164 100

129 104.6 73.4 136.4

131 99.2 71.5 132.9

166 124.3 92.7 172.1

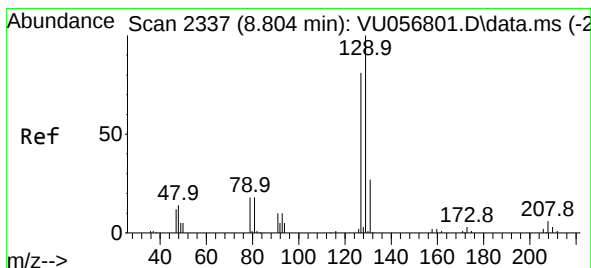
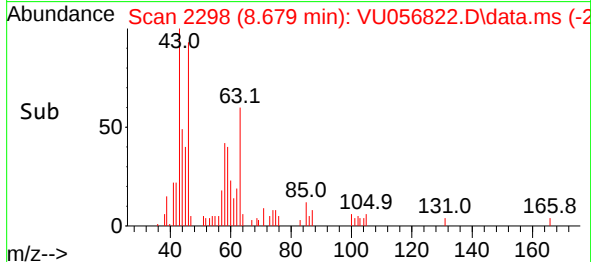
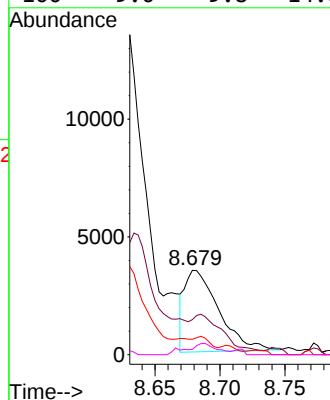
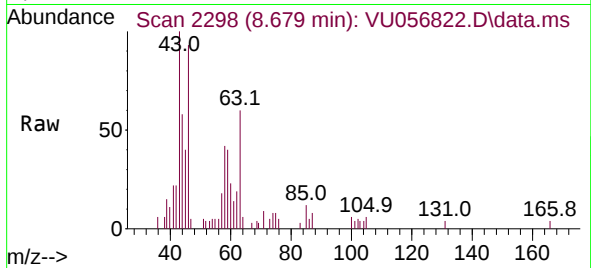




#48
2-Hexanone
Concen: 0.782 ug/L
RT: 8.679 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

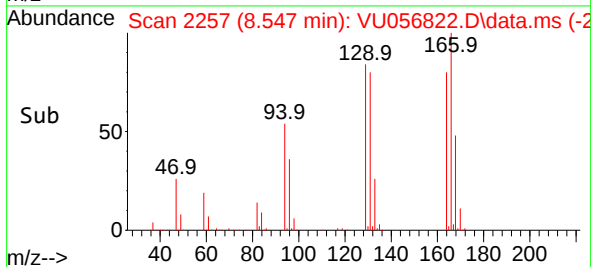
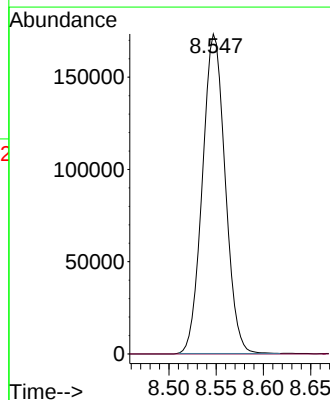
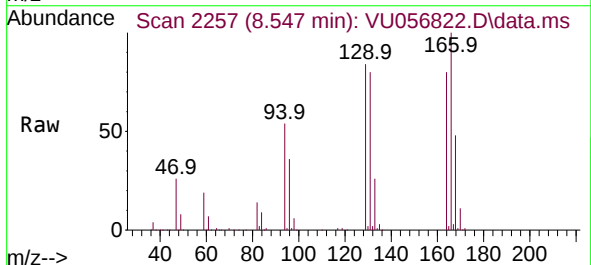
Instrument :
MSVOA_U
ClientSampleId :
E06J2

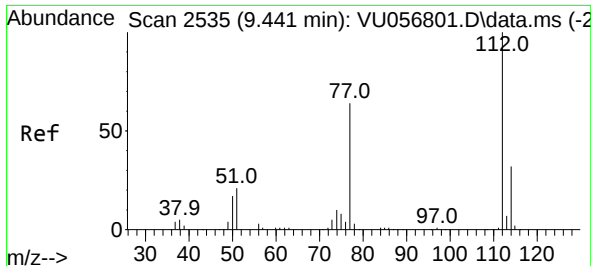
Tgt Ion: 43 Resp: 6289
Ion Ratio Lower Upper
43 100
58 46.7 47.5 71.3#
57 10.4 17.0 25.4#
100 9.0 9.8 14.8#



#49
Dibromochloromethane
Concen: 15.675 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Tgt Ion: 129 Resp: 289503
Ion Ratio Lower Upper
129 100
127 0.0 53.9 100.1#

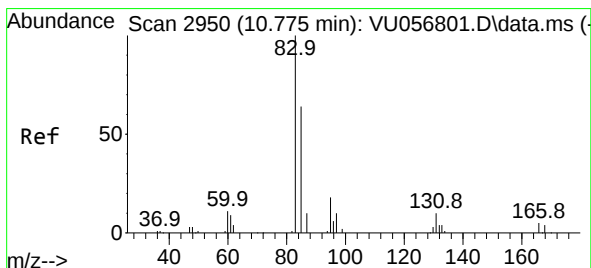
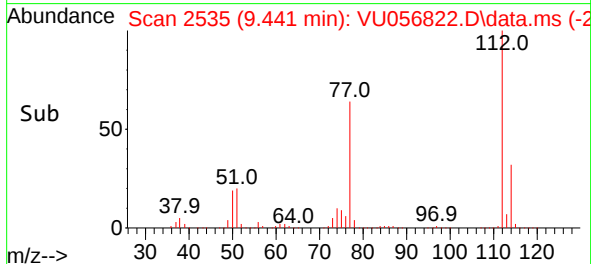
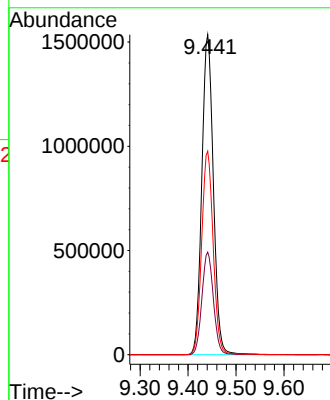
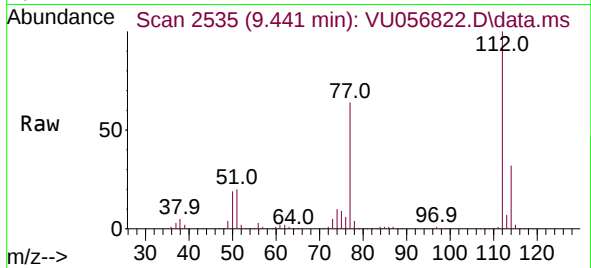




#51
Chlorobenzene
Concen: 41.858 ug/L
RT: 9.441 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

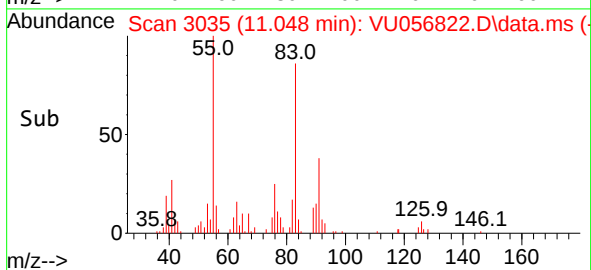
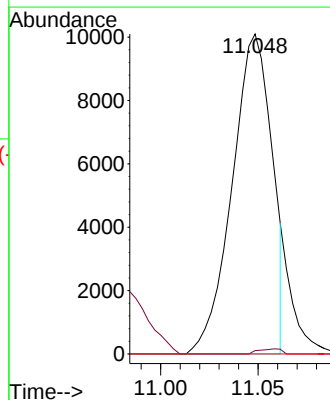
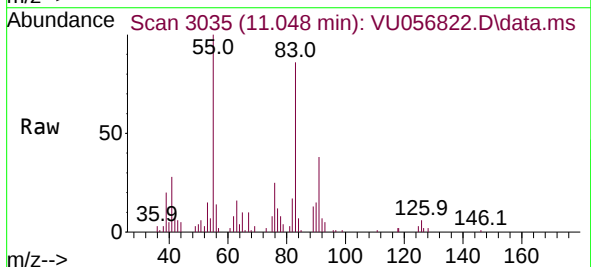
Instrument :
MSVOA_U
ClientSampleId :
E06J2

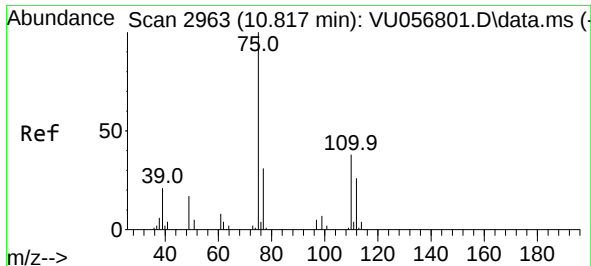
Tgt Ion:112 Resp: 2564793
Ion Ratio Lower Upper
112 100
114 32.0 21.9 40.7
77 63.6 51.6 77.4



#57
1,1,2,2-Tetrachloroethane
Concen: 0.741 ug/L
RT: 11.048 min Scan# 3035
Delta R.T. 0.273 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Tgt Ion: 83 Resp: 14388
Ion Ratio Lower Upper
83 100
85 1.1 45.4 84.4#
131 0.0 6.6 9.8#

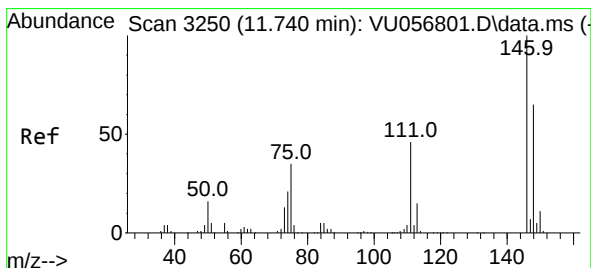
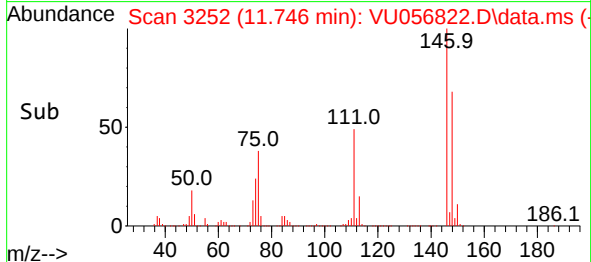
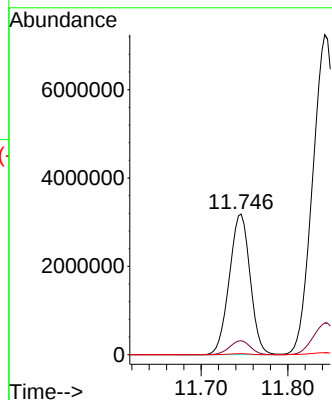
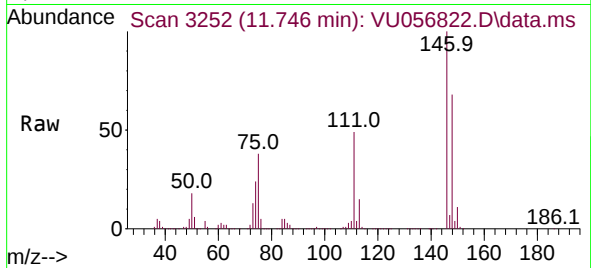




#61
1,2,3-Trichloropropane
Concen: 330.321 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.929 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

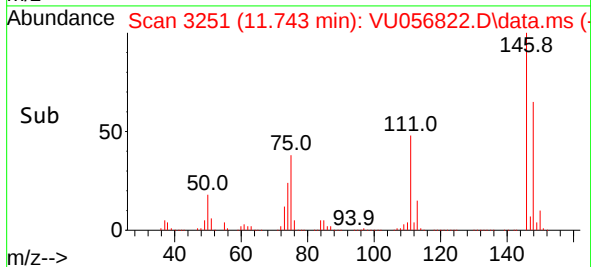
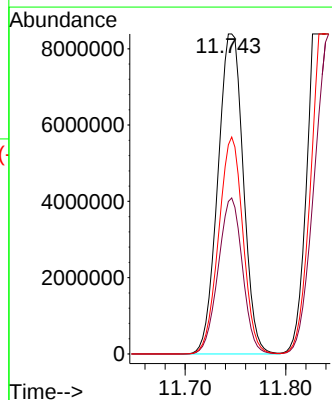
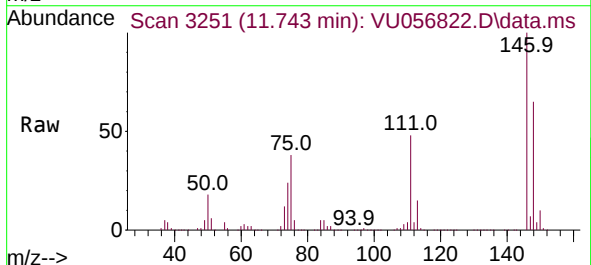
Instrument :
MSVOA_U
ClientSampleId :
E06J2

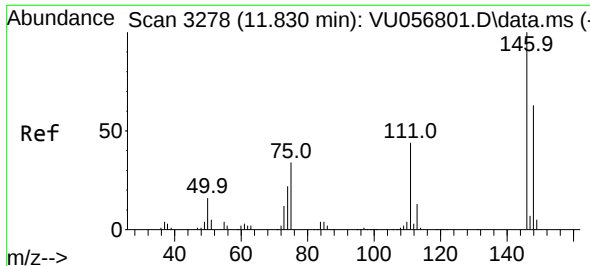
Tgt Ion: 75 Resp: 5318514
Ion Ratio Lower Upper
75 100
110 10.0 28.4 42.6#
77 0.0 26.3 39.5#



#64
1,3-Dichlorobenzene
Concen: 263.277 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.003 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Tgt Ion:146 Resp:14755008
Ion Ratio Lower Upper
146 100
111 47.6 31.7 58.9
148 65.3 44.3 82.3

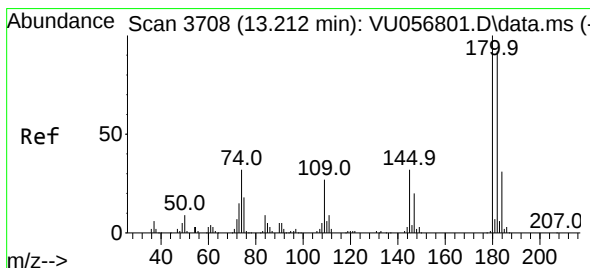
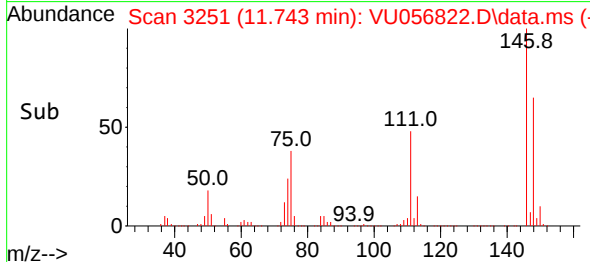
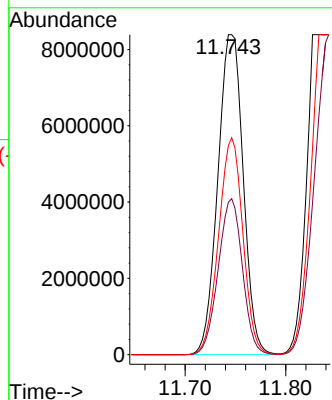
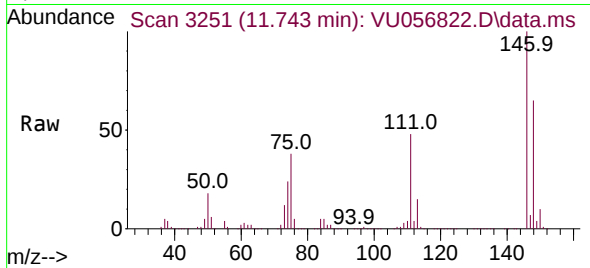




#65
 1,4-Dichlorobenzene
 Concen: 267.378 ug/L
 RT: 11.743 min Scan# 31
 Delta R.T. -0.087 min
 Lab File: VU056822.D
 Acq: 13 Dec 2023 07:03

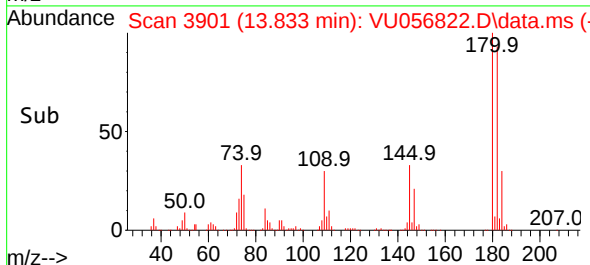
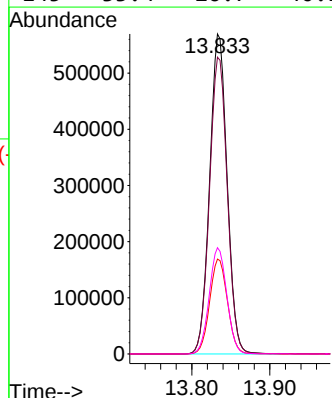
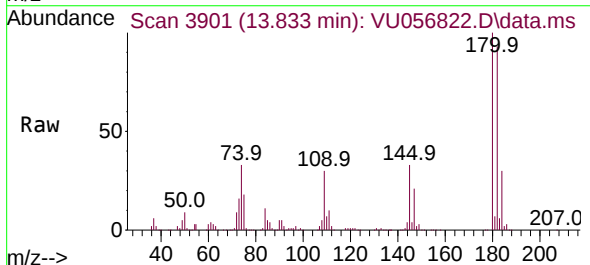
Instrument :
 MSVOA_U
 ClientSampleId :
 E06J2

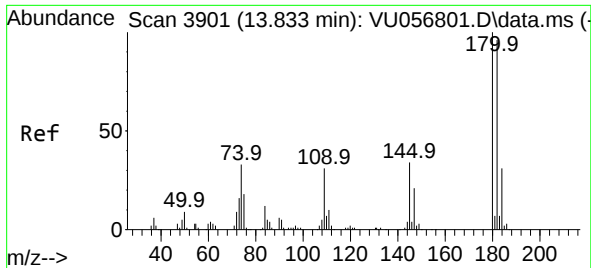
Tgt Ion:146 Resp:14755008
 Ion Ratio Lower Upper
 146 100
 111 47.6 31.2 58.0
 148 65.3 45.6 84.8



#69
 1,3,5-Trichlorobenzene
 Concen: 20.946 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. 0.621 min
 Lab File: VU056822.D
 Acq: 13 Dec 2023 07:03

Tgt Ion:180 Resp: 886987
 Ion Ratio Lower Upper
 180 100
 182 94.4 76.2 114.4
 184 30.2 24.6 37.0
 145 33.4 26.7 40.1

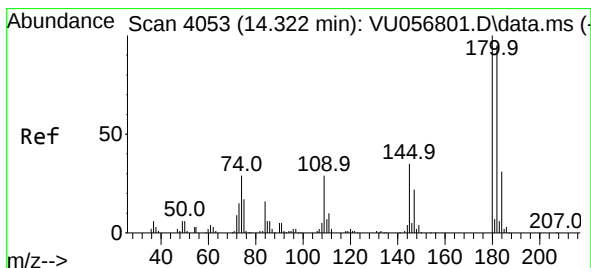
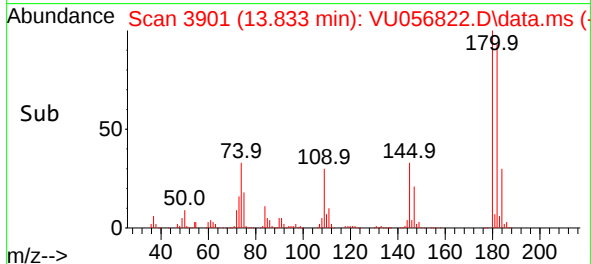
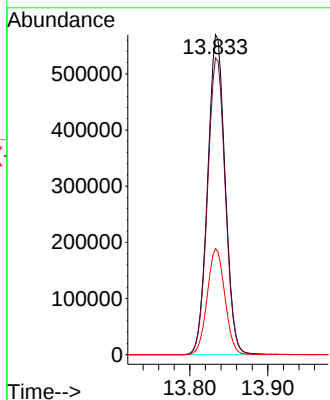
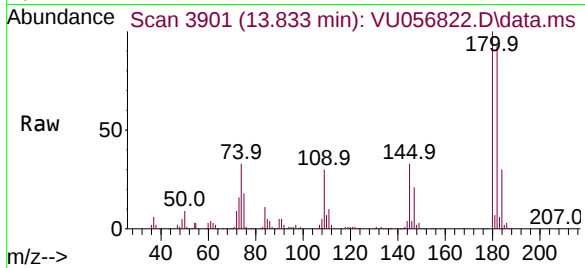




#70
1,2,4-trichlorobenzene
Concen: 26.450 ug/L
RT: 13.833 min Scan# 3901
Delta R.T. -0.000 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Instrument :
MSVOA_U
ClientSampleId :
E06J2

Tgt Ion:180 Resp: 886987
Ion Ratio Lower Upper
180 100
182 94.4 74.3 111.5
145 33.4 26.7 40.1



#72
1,2,3-Trichlorobenzene
Concen: 11.319 ug/L
RT: 14.322 min Scan# 4053
Delta R.T. -0.000 min
Lab File: VU056822.D
Acq: 13 Dec 2023 07:03

Tgt Ion:180 Resp: 322241
Ion Ratio Lower Upper
180 100
182 94.6 75.0 112.6
145 35.4 28.6 42.8

