

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120523\
 Data File : VW033105.D
 Acq On : 05 Dec 2023 13:11
 Operator : SY/MD
 Sample : 04696-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2023-08

Quant Time: Dec 06 01:27:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 06 01:18:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	308158	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	305516	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	171832	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	73231	39.753	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	79.500%		
7) Chloroethane-d5	1.532	69	54476	42.441	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	84.880%		
11) 1,1-Dichloroethene-d2	2.060	65	28573	40.772	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	81.540%		
21) 2-Butanone-d5	3.780	46	88143	96.334	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	96.330%		
24) Chloroform-d	4.249	84	169083	43.250	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.500%		
26) 1,2-Dichloroethane-d4	4.941	65	110709	45.548	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.100%		
32) Benzene-d6	4.960	84	318105	44.519	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	89.040%		
36) 1,2-Dichloropropane-d6	5.989	67	88865	46.255	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	92.500%		
41) Toluene-d8	7.243	98	295810	43.398	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	86.800%		
43) trans-1,3-Dichloroprop...	7.551	79	51702	42.558	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	85.120%		
47) 2-Hexanone-d5	8.021	63	72846	94.383	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	94.380%		
56) 1,1,2,2-Tetrachloroeth...	10.153	84	131036	47.980	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	95.960%		
66) 1,2-Dichlorobenzene-d4	11.561	152	145090	47.457	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.920%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.105	85	6767	2.009	ug/L	99
3) Chloromethane	1.214	50	4412	1.986	ug/L	98
5) Vinyl chloride	1.285	62	4087	1.918	ug/L #	60
6) Bromomethane	1.487	94	2995	2.154	ug/L	85
8) Chloroethane	1.549	64	2033	1.792	ug/L #	81
9) Trichlorofluoromethane	1.716	101	7241	2.060	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	4193	2.540	ug/L	87
12) 1,1-Dichloroethene	2.066	96	4226	2.735	ug/L #	1
13) Acetone	2.114	43	3722	4.261	ug/L	96
14) Carbon disulfide	2.243	76	10650	1.921	ug/L #	94
15) Methyl Acetate	2.381	43	2922	2.007	ug/L #	87
16) Methylene chloride	2.449	84	4217	2.061	ug/L	92
17) trans-1,2-Dichloroethene	2.700	96	3763	1.855	ug/L	100
18) Methyl tert-butyl Ether	2.703	73	11895	1.930	ug/L	98
19) 1,1-Dichloroethane	3.111	63	6627	1.974	ug/L	95
20) cis-1,2-Dichloroethene	3.818	96	4447	2.066	ug/L	92
22) 2-Butanone	3.905	43	4737m	4.261	ug/L	
23) Bromochloromethane	4.156	128	2560m	2.071	ug/L	
25) Chloroform	4.272	83	8044m	2.083	ug/L	

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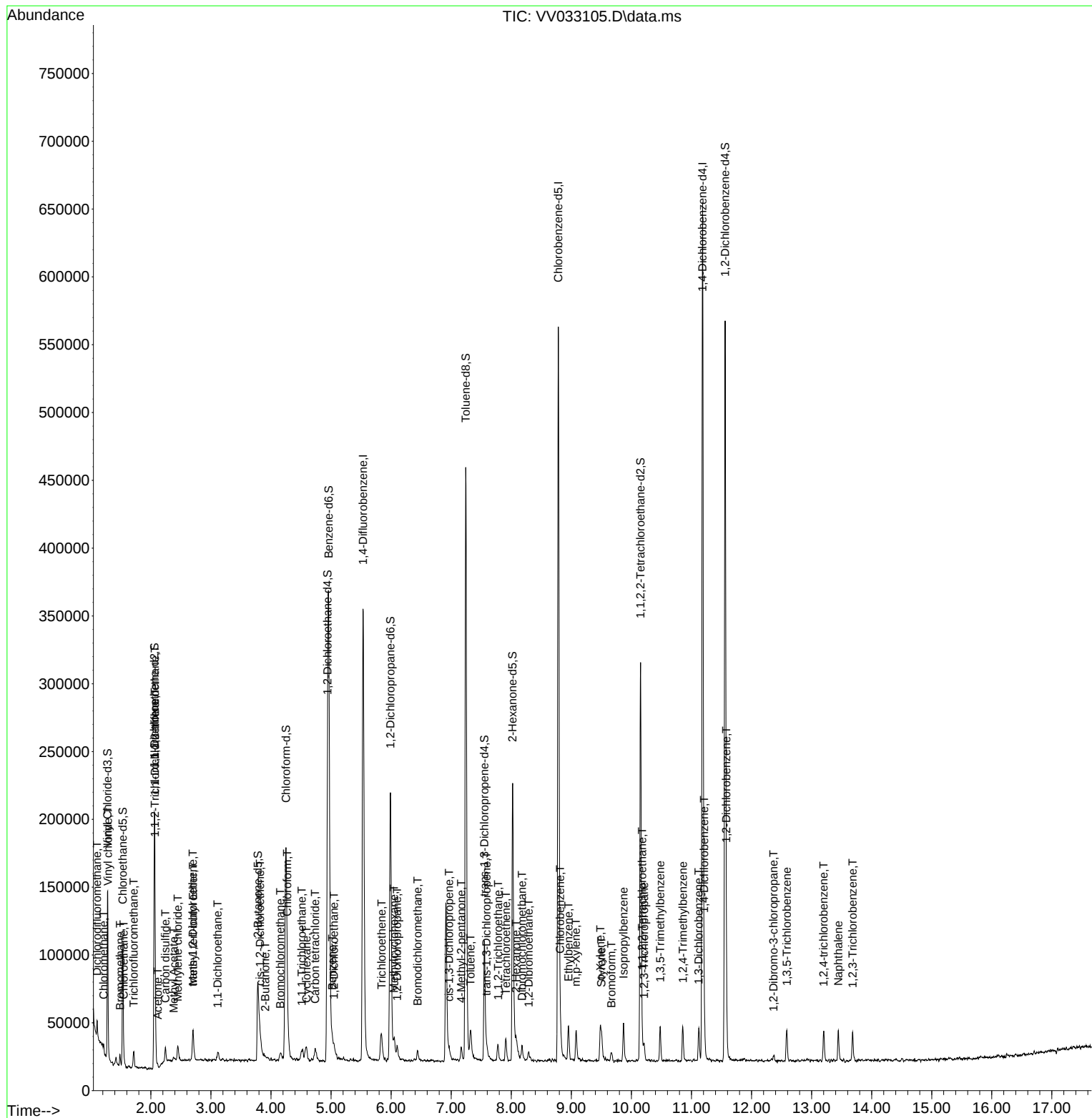
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.050	62	6422m	2.105	ug/L	
29) Cyclohexane	4.590	56	5383m	1.908	ug/L	
30) 1,1,1-Trichloroethane	4.513	97	7227m	1.914	ug/L	
31) Carbon tetrachloride	4.735	117	6948	1.979	ug/L	98
33) Benzene	5.021	78	15488m	2.001	ug/L	
34) Trichloroethene	5.841	95	4891	2.115	ug/L	94
35) Methylcyclohexane	6.050	83	6788	2.022	ug/L	98
37) 1,2-Dichloropropane	6.098	63	3970m	2.216	ug/L	
38) Bromodichloromethane	6.439	83	5881	2.036	ug/L	100
39) cis-1,3-Dichloropropene	6.963	75	6390	1.965	ug/L	90
40) 4-Methyl-2-pentanone	7.169	43	6213m	3.266	ug/L	
42) Toluene	7.323	91	17468	2.002	ug/L	85
44) trans-1,3-Dichloropropene	7.587	75	6842m	2.081	ug/L	
45) 1,1,2-Trichloroethane	7.780	97	3846	1.851	ug/L	86
46) Tetrachloroethene	7.912	164	3986	2.005	ug/L	93
48) 2-Hexanone	8.082	43	10621m	6.734	ug/L	
49) Dibromochloromethane	8.178	129	5333	2.150	ug/L	99
50) 1,2-Dibromoethane	8.291	107	4145	1.871	ug/L #	94
51) Chlorobenzene	8.815	112	13108	2.137	ug/L	97
52) Ethylbenzene	8.953	91	18263	1.819	ug/L	97
53) m,p-Xylene	9.079	106	6833	1.718	ug/L	99
54) o-Xylene	9.484	106	6738	1.717	ug/L	100
55) Styrene	9.503	104	11489	1.692	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.178	83	6562	2.312	ug/L #	86
59) Bromoform	9.667	173	3596	1.928	ug/L #	97
60) Isopropylbenzene	9.870	105	18409	1.858	ug/L	97
61) 1,2,3-Trichloropropane	10.211	75	4561	2.129	ug/L	98
62) 1,3,5-Trimethylbenzene	10.481	105	13739	1.721	ug/L	95
63) 1,2,4-Trimethylbenzene	10.857	105	14630	1.760	ug/L	95
64) 1,3-Dichlorobenzene	11.120	146	10508	1.985	ug/L	97
65) 1,4-Dichlorobenzene	11.210	146	11661	2.121	ug/L	98
67) 1,2-Dichlorobenzene	11.580	146	10949	2.110	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.365	75	1198	1.822	ug/L	89
69) 1,3,5-Trichlorobenzene	12.587	180	8026	1.893	ug/L	98
70) 1,2,4-trichlorobenzene	13.201	180	7708	1.968	ug/L	97
71) Naphthalene	13.445	128	19204	2.010	ug/L	97
72) 1,2,3-Trichlorobenzene	13.683	180	6958	1.841	ug/L	96

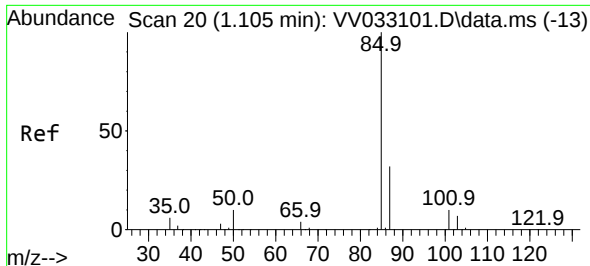
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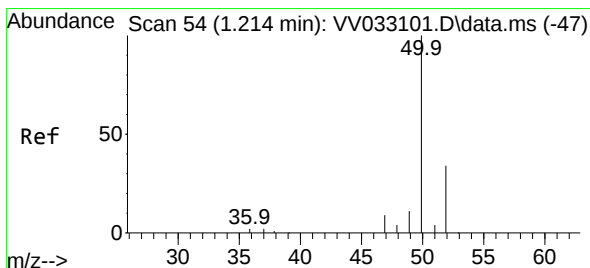
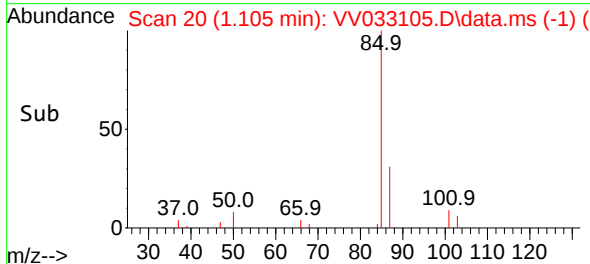
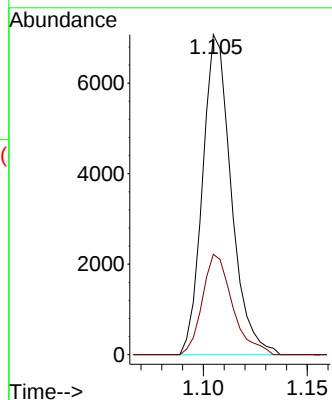
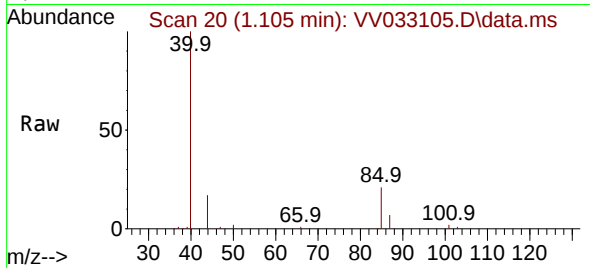




#2
 Dichlorodifluoromethane
 Concen: 2.009 ug/L
 RT: 1.105 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VV033105.D
 Acq: 05 Dec 2023 13:11

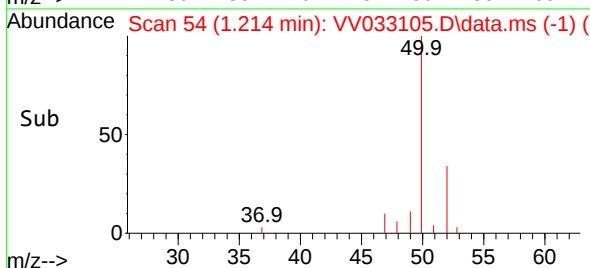
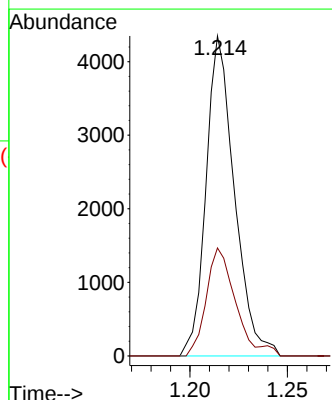
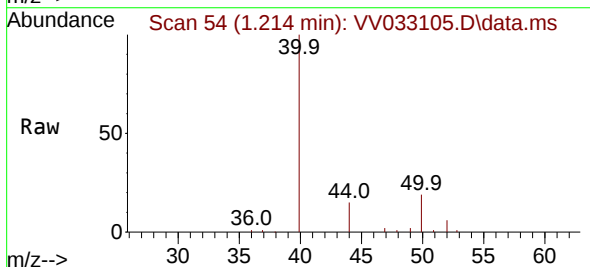
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2023-08

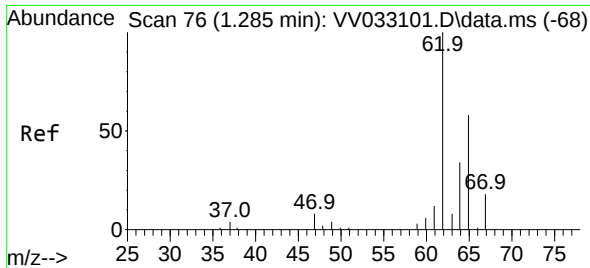
Tgt Ion: 85 Resp: 6767
 Ion Ratio Lower Upper
 85 100
 87 33.0 26.0 39.0



#3
 Chloromethane
 Concen: 1.986 ug/L
 RT: 1.214 min Scan# 54
 Delta R.T. 0.000 min
 Lab File: VV033105.D
 Acq: 05 Dec 2023 13:11

Tgt Ion: 50 Resp: 4412
 Ion Ratio Lower Upper
 50 100
 52 33.8 22.8 42.4

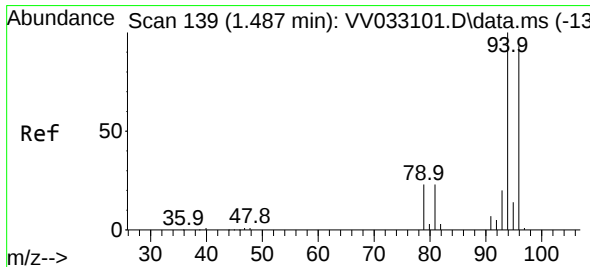
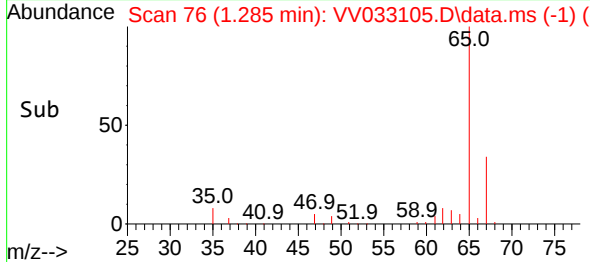
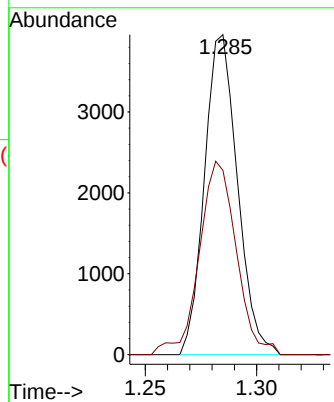
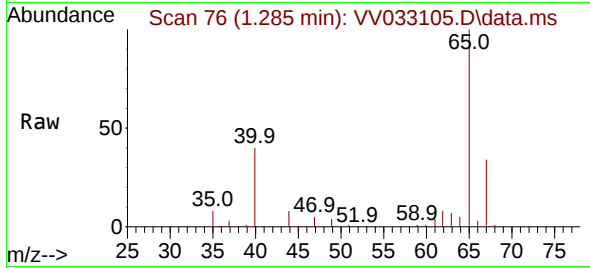




#5
 Vinyl chloride
 Concen: 1.918 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. 0.000 min
 Lab File: VV033105.D
 Acq: 05 Dec 2023 13:11

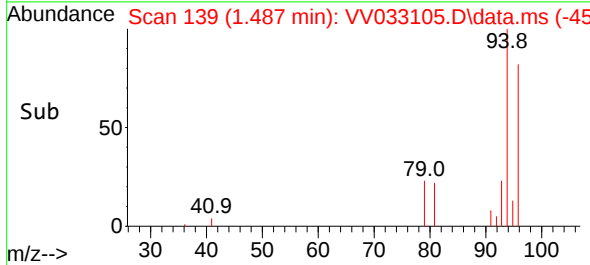
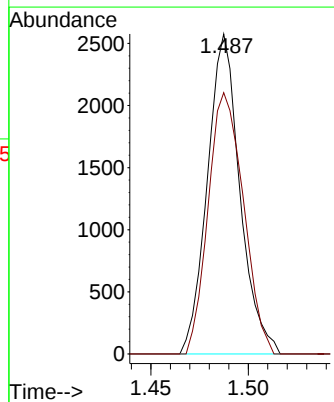
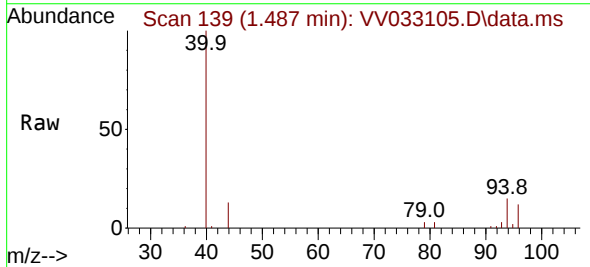
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2023-08

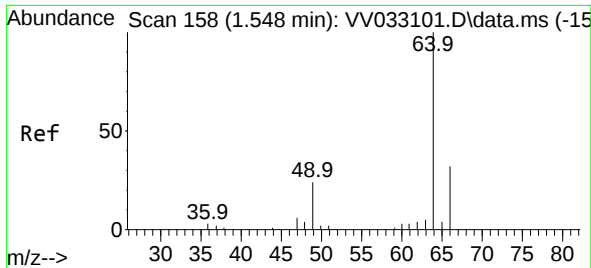
Tgt Ion: 62 Resp: 4087
 Ion Ratio Lower Upper
 62 100
 64 57.6 24.2 45.0#



#6
 Bromomethane
 Concen: 2.154 ug/L
 RT: 1.487 min Scan# 139
 Delta R.T. 0.003 min
 Lab File: VV033105.D
 Acq: 05 Dec 2023 13:11

Tgt Ion: 94 Resp: 2995
 Ion Ratio Lower Upper
 94 100
 96 81.7 67.1 124.7

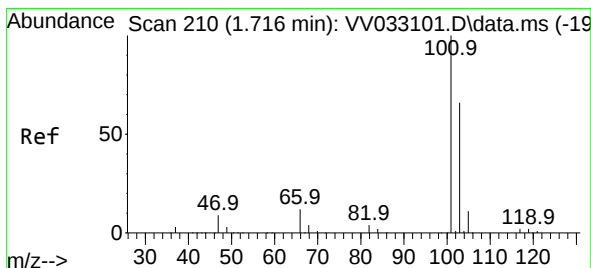
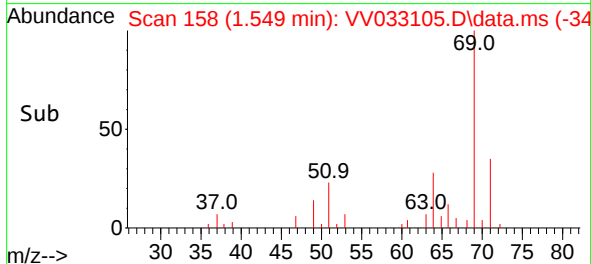
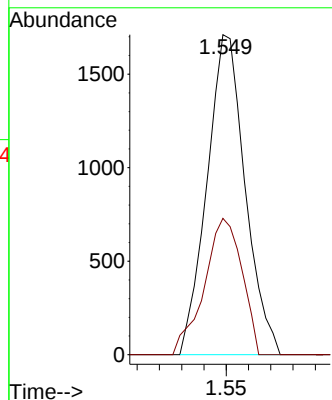
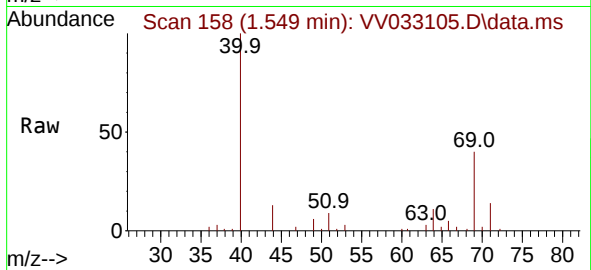




#8
Chloroethane
Concen: 1.792 ug/L
RT: 1.549 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

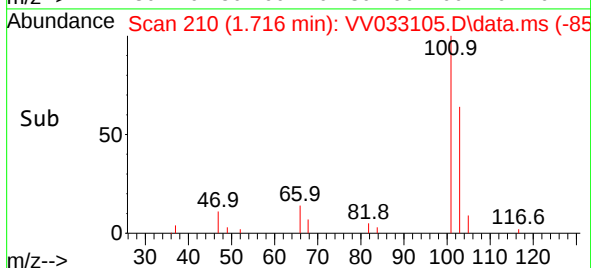
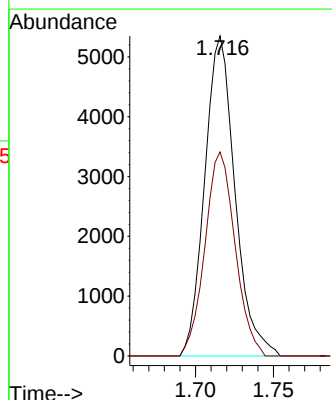
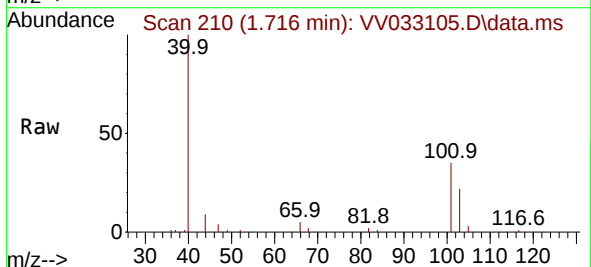
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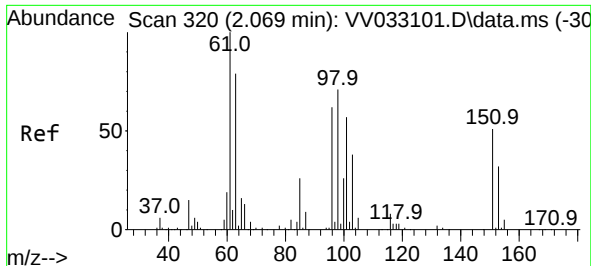
Tgt Ion: 64 Resp: 2033
Ion Ratio Lower Upper
64 100
66 42.6 22.3 41.5#



#9
Trichlorofluoromethane
Concen: 2.060 ug/L
RT: 1.716 min Scan# 210
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion:101 Resp: 7241
Ion Ratio Lower Upper
101 100
103 63.5 51.3 76.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.540 ug/L

RT: 2.069 min Scan# 319

Delta R.T. 0.000 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

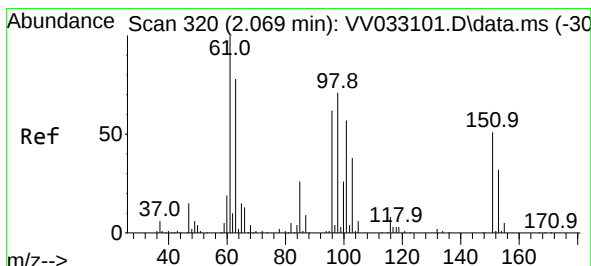
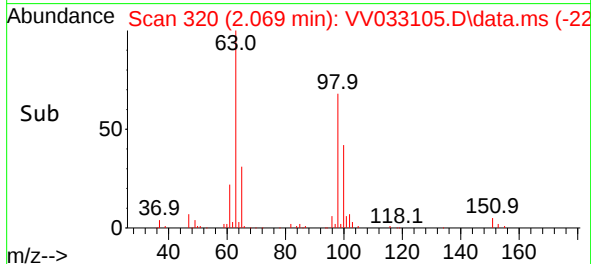
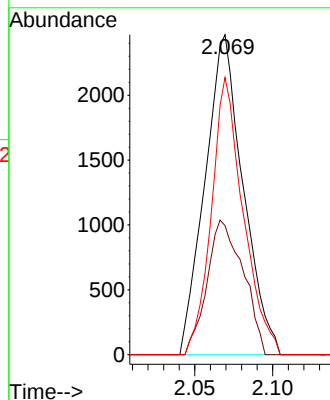
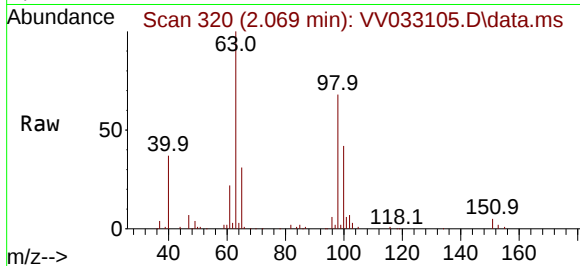
Tgt Ion:101 Resp: 4193

Ion Ratio Lower Upper

101 100

85 39.9 36.0 54.0

151 72.5 69.1 103.7



#12

1,1-Dichloroethene

Concen: 2.735 ug/L

RT: 2.066 min Scan# 319

Delta R.T. -0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

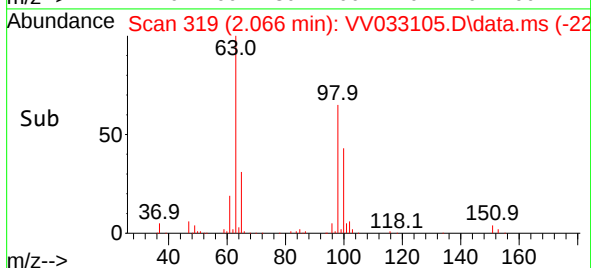
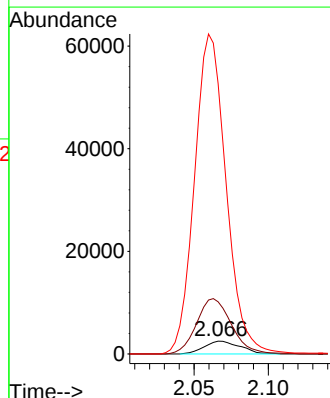
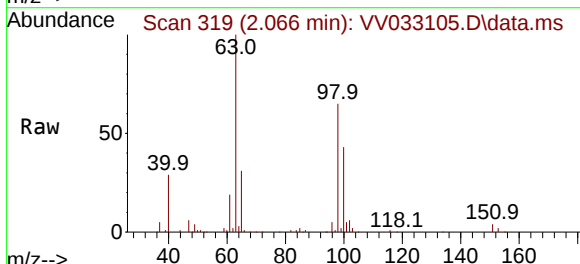
Tgt Ion: 96 Resp: 4226

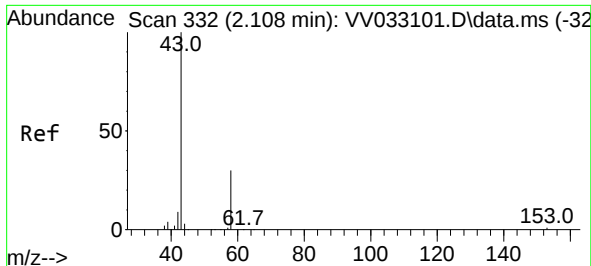
Ion Ratio Lower Upper

96 100

61 407.2 109.1 202.7#

63 2110.7 85.3 158.3#





#13

Acetone

Concen: 4.261 ug/L

RT: 2.114 min Scan# 311

Delta R.T. 0.007 min

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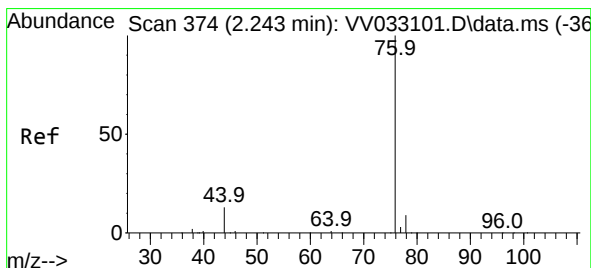
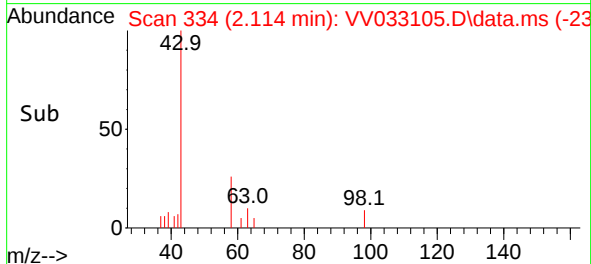
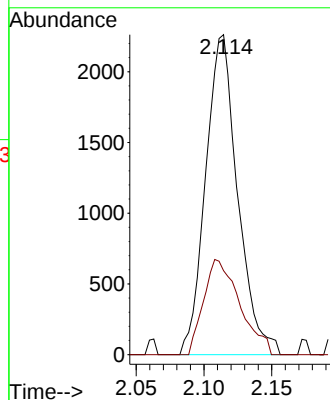
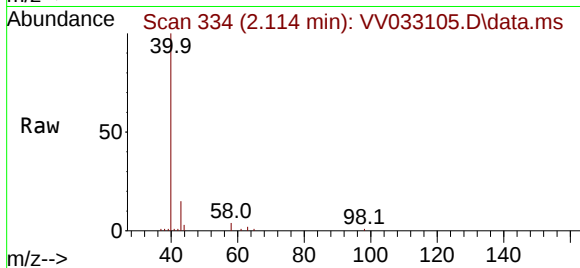
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 43 Resp: 3722

Ion Ratio Lower Upper

43 100

58 33.6 0.0 62.8



#14

Carbon disulfide

Concen: 1.921 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.003 min

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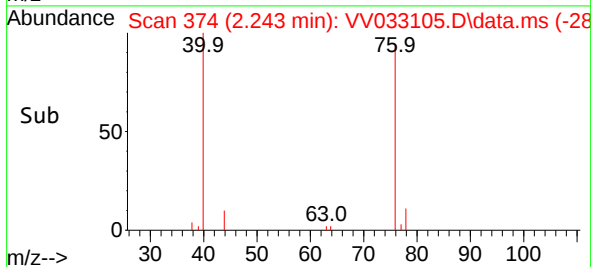
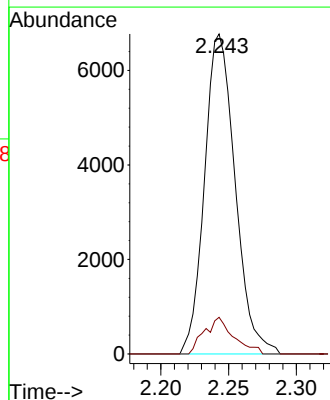
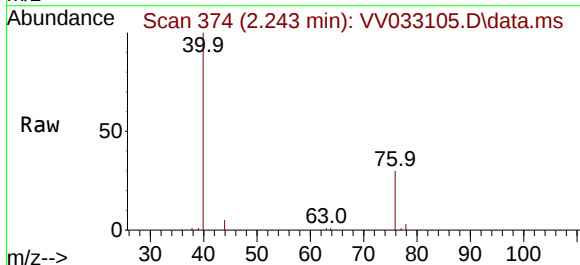
Acq: 05 Dec 2023 13:11

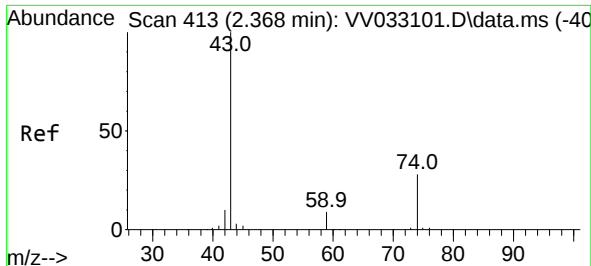
Tgt Ion: 76 Resp: 10650

Ion Ratio Lower Upper

76 100

78 11.4 7.4 11.0#

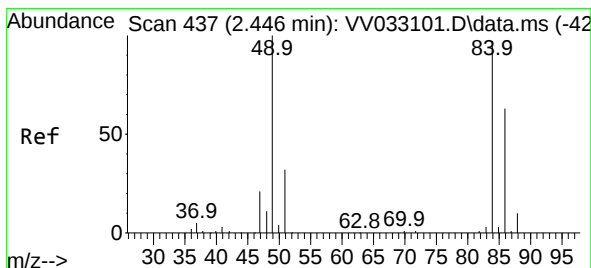
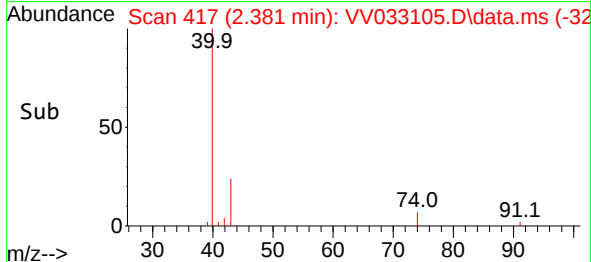
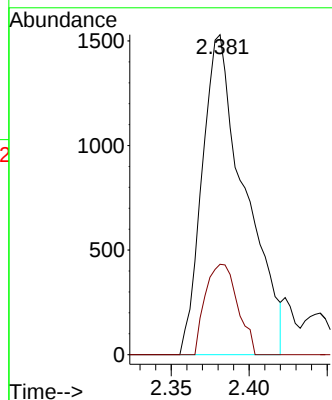
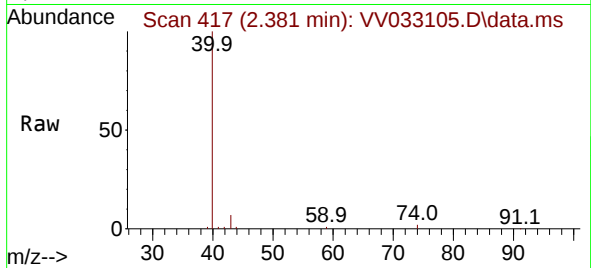




#15
Methyl Acetate
Concen: 2.007 ug/L
RT: 2.381 min Scan# 413
Delta R.T. 0.013 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

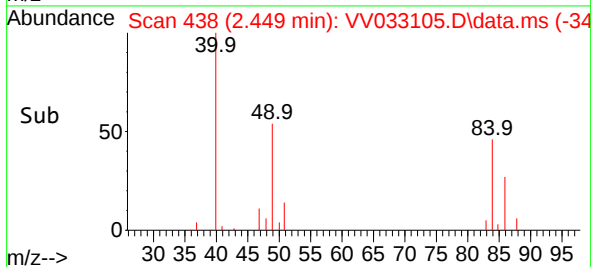
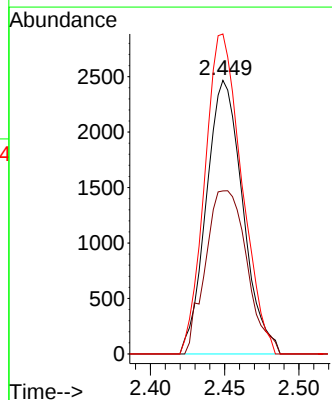
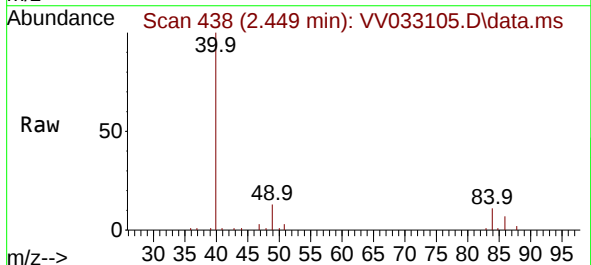
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

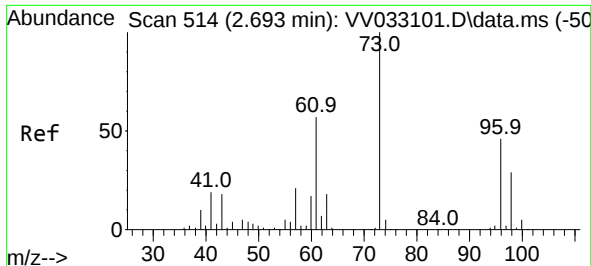
Tgt Ion: 43 Resp: 2922
Ion Ratio Lower Upper
43 100
74 21.1 22.6 33.8#



#16
Methylene chloride
Concen: 2.061 ug/L
RT: 2.449 min Scan# 438
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion: 84 Resp: 4217
Ion Ratio Lower Upper
84 100
86 59.6 45.9 85.3
49 116.9 75.5 140.1

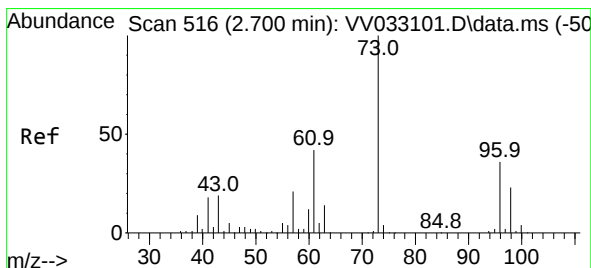
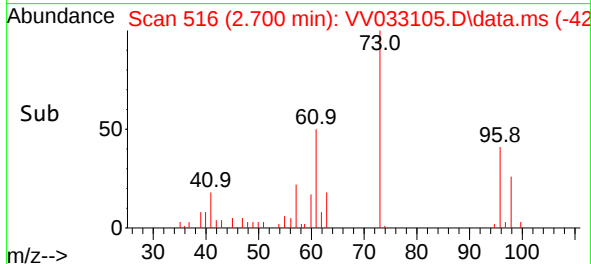
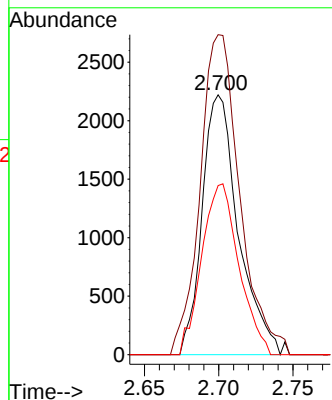
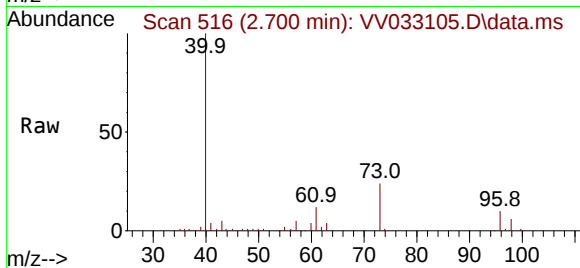




#17
trans-1,2-Dichloroethene
Concen: 1.855 ug/L
RT: 2.700 min Scan# 514
Delta R.T. 0.007 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

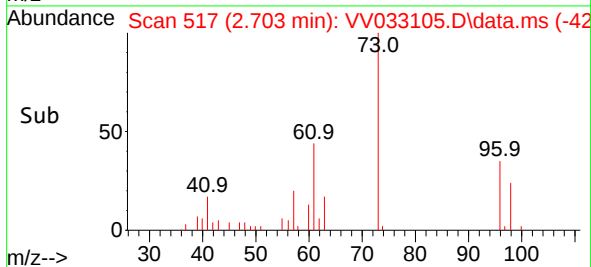
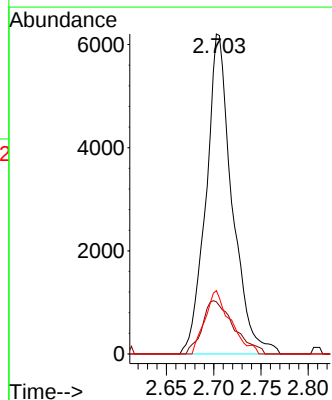
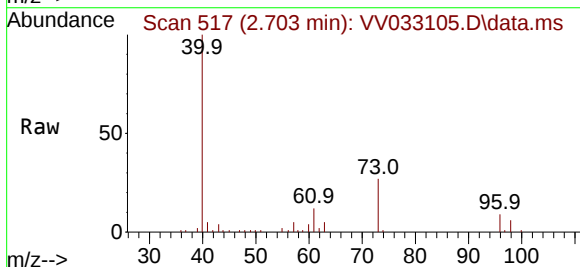
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

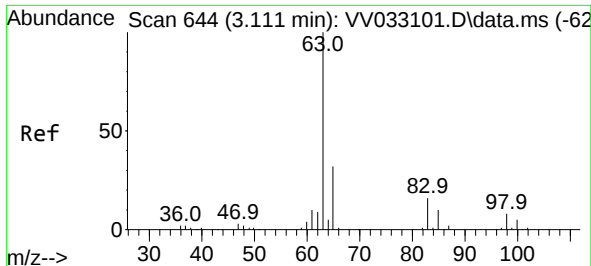
Tgt Ion: 96 Resp: 3763
Ion Ratio Lower Upper
96 100
61 123.1 86.5 160.6
98 65.1 45.1 83.7



#18
Methyl tert-butyl Ether
Concen: 1.930 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion: 73 Resp: 11895
Ion Ratio Lower Upper
73 100
43 20.1 15.4 23.2
57 18.7 16.1 24.1





#19

1,1-Dichloroethane

Concen: 1.974 ug/L

RT: 3.111 min Scan# 644

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

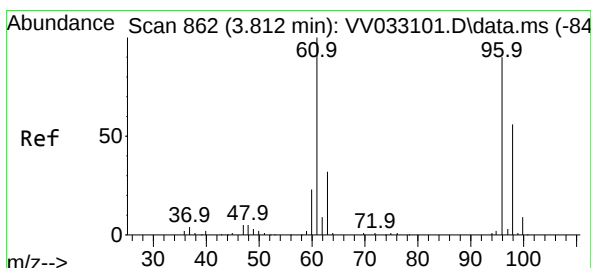
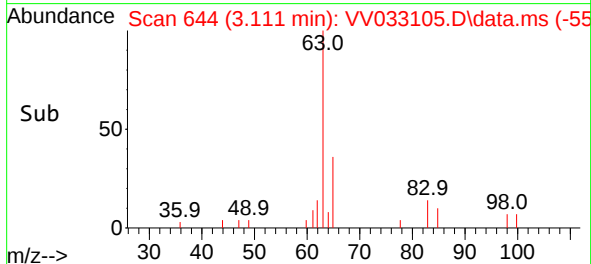
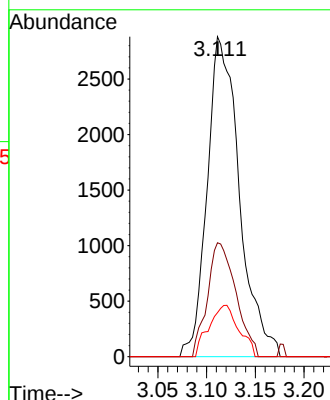
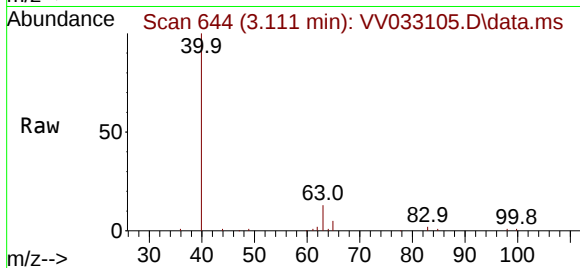
Tgt Ion: 63 Resp: 6627

Ion Ratio Lower Upper

63 100

65 35.6 23.0 42.6

83 13.8 11.4 21.2



#20

cis-1,2-Dichloroethene

Concen: 2.066 ug/L

RT: 3.818 min Scan# 864

Delta R.T. 0.007 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

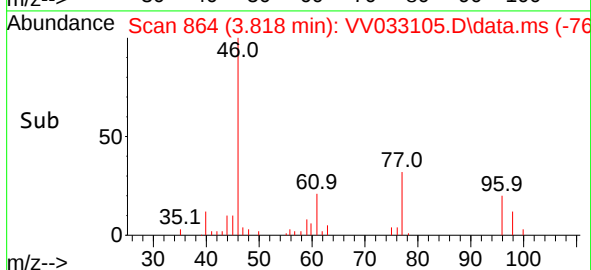
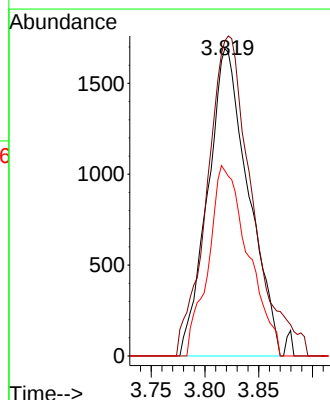
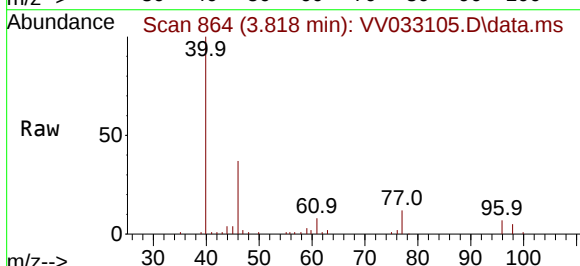
Tgt Ion: 96 Resp: 4447

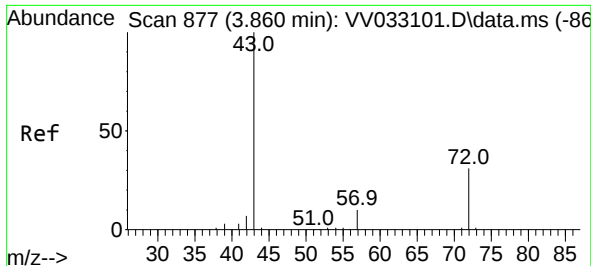
Ion Ratio Lower Upper

96 100

61 102.5 79.1 146.9

98 60.3 45.1 83.7

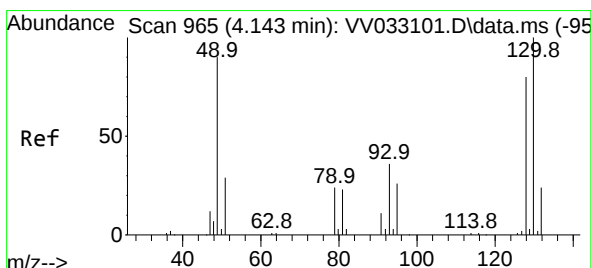
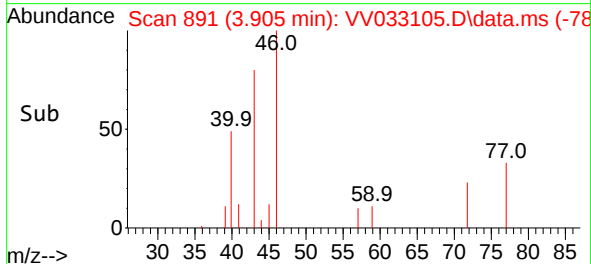
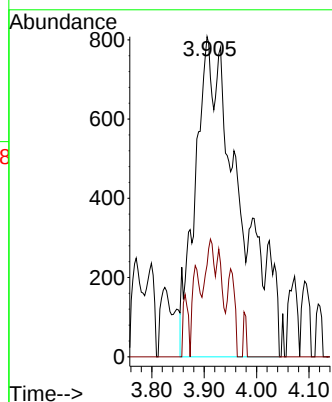
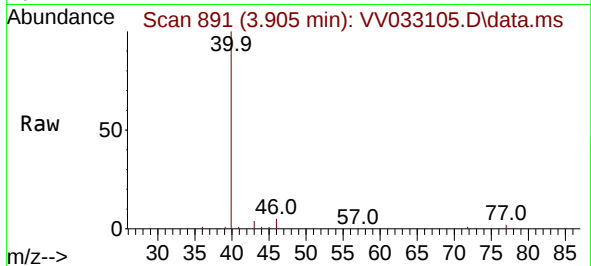




#22
2-Butanone
Concen: 4.261 ug/L m
RT: 3.905 min Scan# 891
Delta R.T. 0.048 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

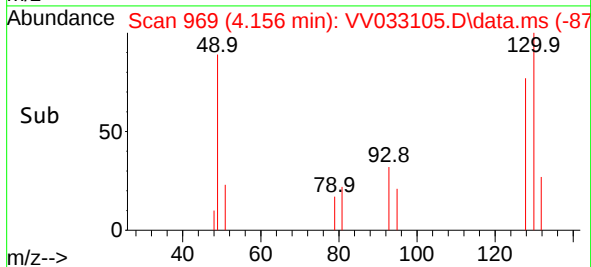
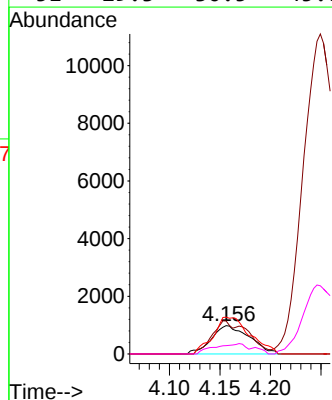
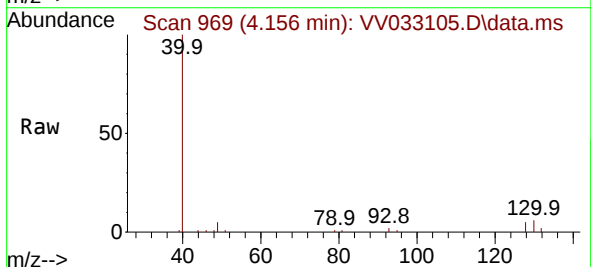
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

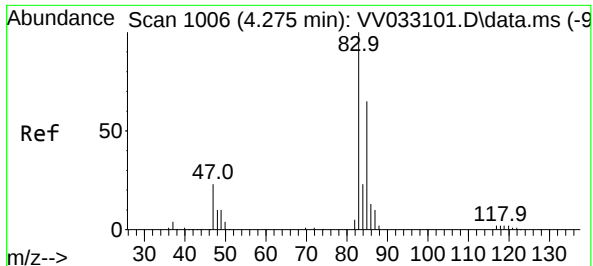
Tgt Ion: 43 Resp: 4737
Ion Ratio Lower Upper
43 100
72 0.9 14.6 43.8#



#23
Bromochloromethane
Concen: 2.071 ug/L m
RT: 4.156 min Scan# 969
Delta R.T. 0.013 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion: 128 Resp: 2560
Ion Ratio Lower Upper
128 100
49 116.2 81.7 151.7
130 129.8 90.1 167.3
51 29.3 30.5 45.7#





#25

Chloroform

Concen: 2.083 ug/L m

RT: 4.272 min Scan# 1006

Delta R.T. 0.000 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

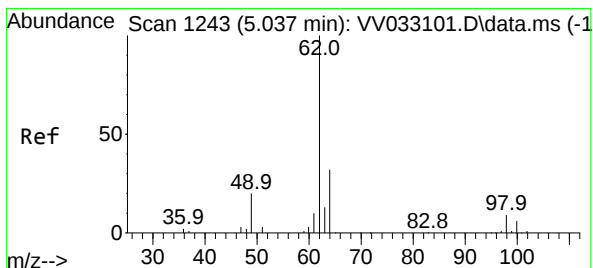
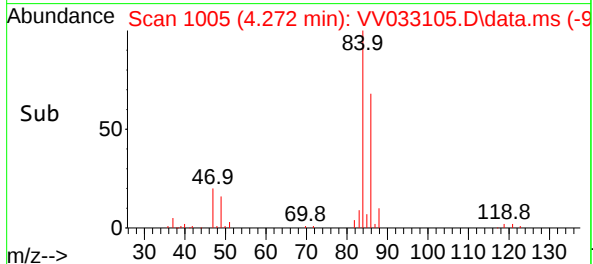
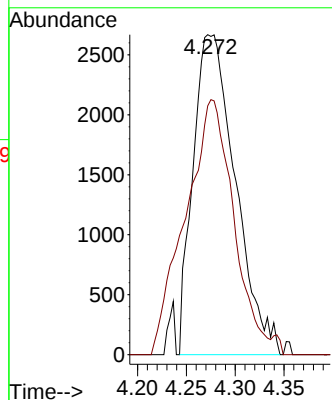
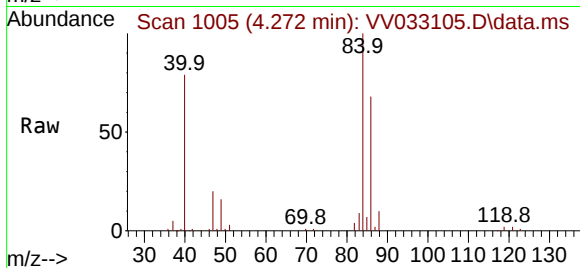
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 83 Resp: 8044

Ion Ratio Lower Upper

83 100

85 77.7 43.5 80.7



#27

1,2-Dichloroethane

Concen: 2.105 ug/L m

RT: 5.050 min Scan# 1247

Delta R.T. 0.013 min

Lab File: VV033105.D

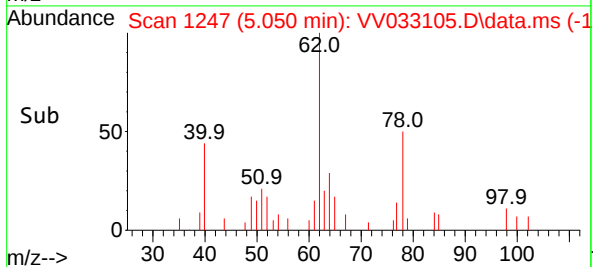
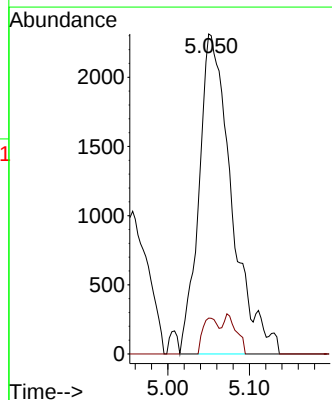
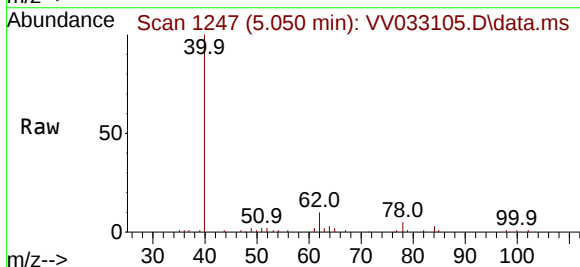
Acq: 05 Dec 2023 13:11

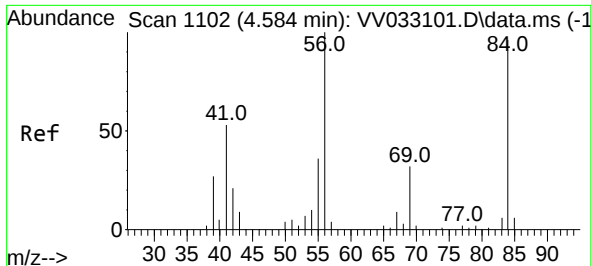
Tgt Ion: 62 Resp: 6422

Ion Ratio Lower Upper

62 100

98 11.2 7.8 11.8





#29

Cyclohexane

Concen: 1.908 ug/L m

RT: 4.590 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

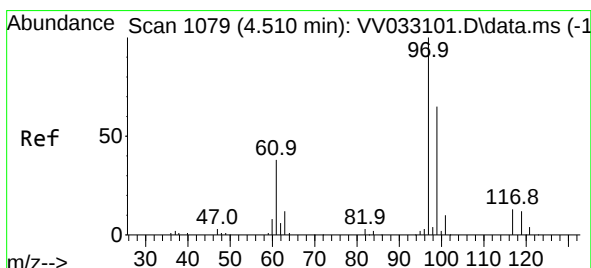
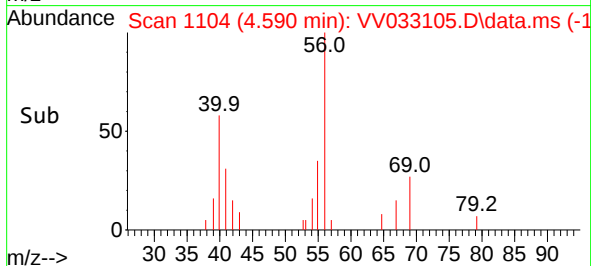
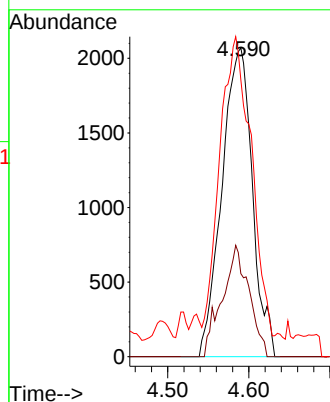
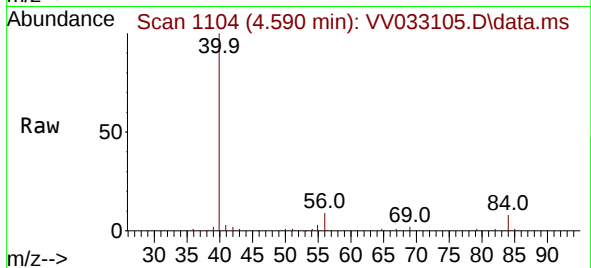
Tgt Ion: 56 Resp: 5383

Ion Ratio Lower Upper

56 100

69 12.9 26.9 40.3#

84 100.6 80.6 121.0



#30

1,1,1-Trichloroethane

Concen: 1.914 ug/L m

RT: 4.513 min Scan# 1080

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

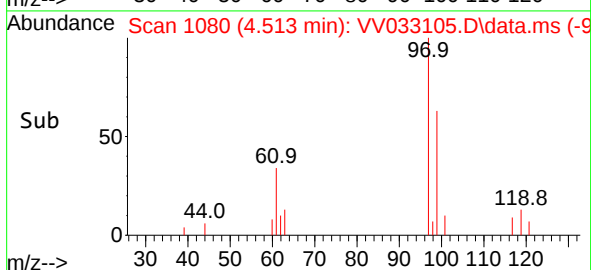
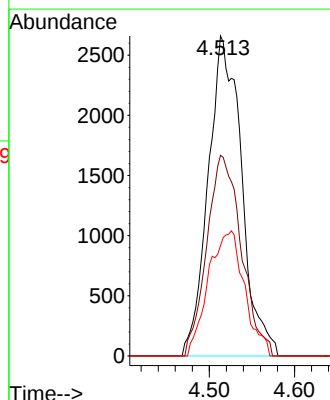
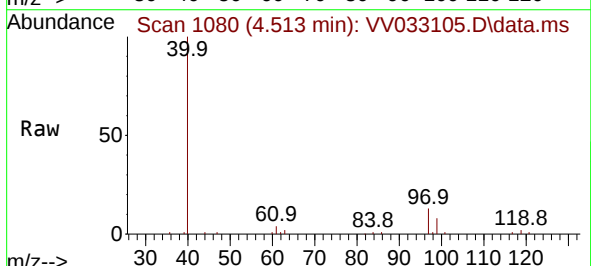
Tgt Ion: 97 Resp: 7227

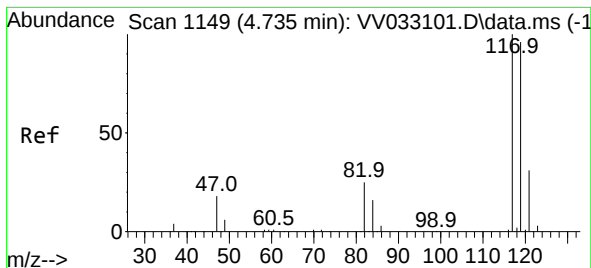
Ion Ratio Lower Upper

97 100

99 65.1 51.3 76.9

61 12.0 31.8 47.8#





#31

Carbon tetrachloride

Concen: 1.979 ug/L

RT: 4.735 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

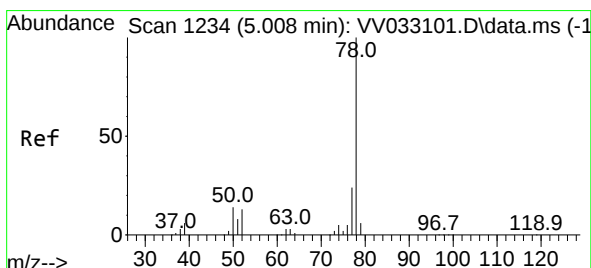
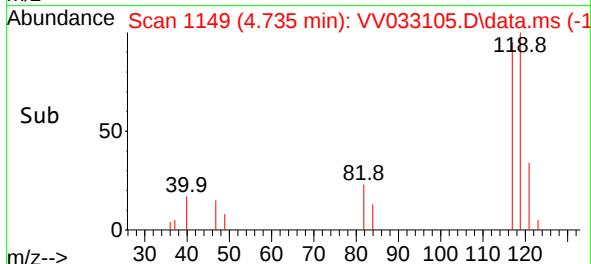
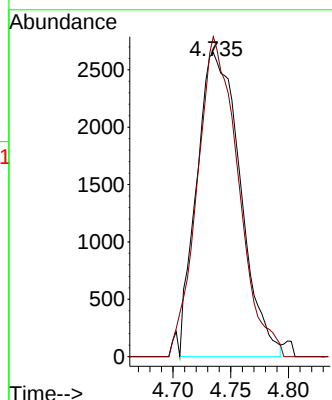
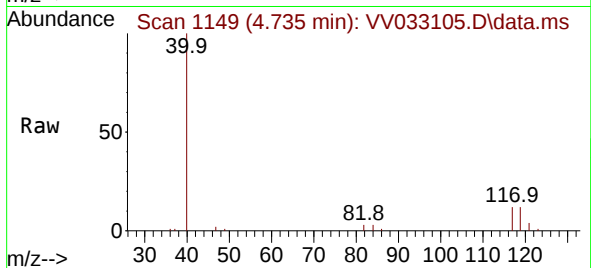
MDL-MED-SOIL-QT4-2023-08

Tgt Ion:117 Resp: 6948

Ion Ratio Lower Upper

117 100

119 98.8 77.5 116.3



#33

Benzene

Concen: 2.001 ug/L m

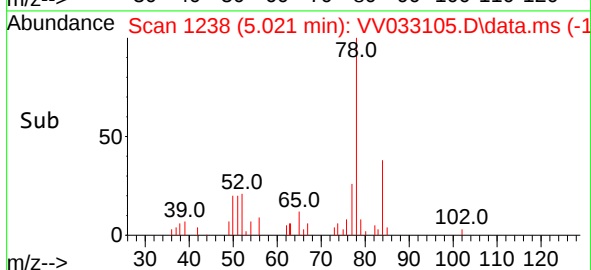
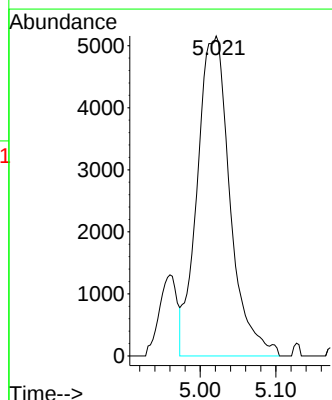
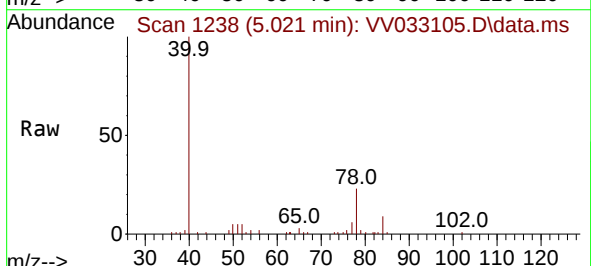
RT: 5.021 min Scan# 1238

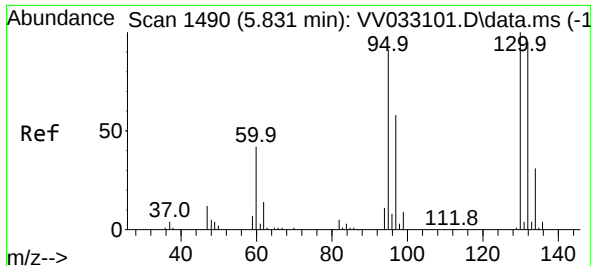
Delta R.T. 0.013 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Tgt Ion: 78 Resp: 15488



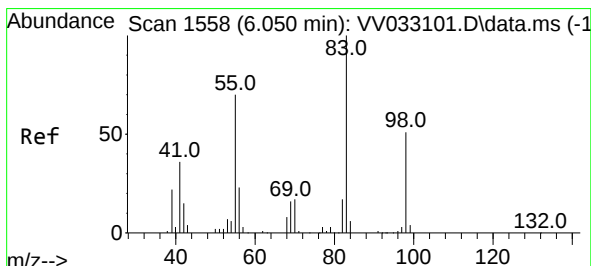
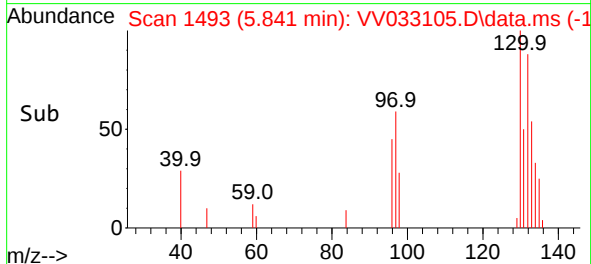
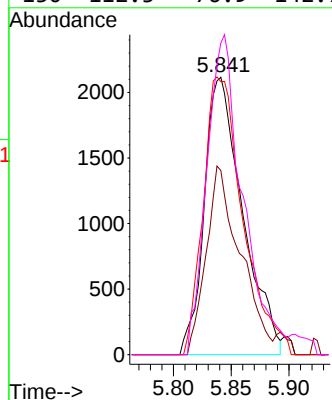
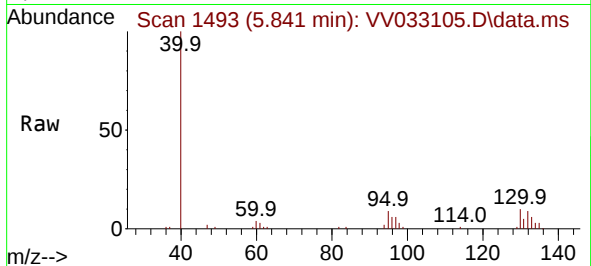


#34
Trichloroethene
Concen: 2.115 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.010 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 95 Resp: 4891

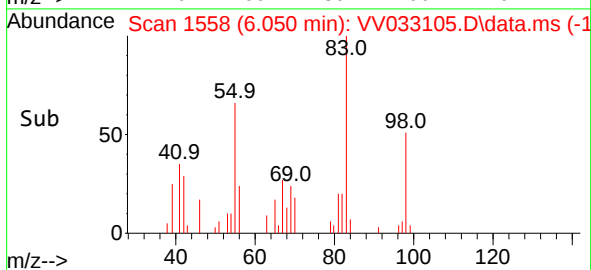
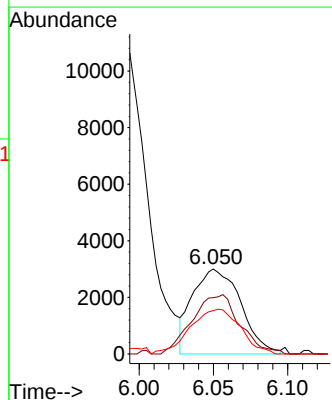
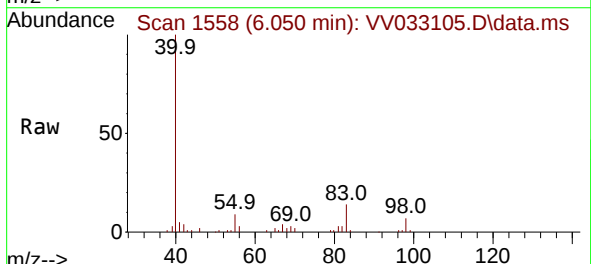
Ion	Ratio	Lower	Upper
95	100		
97	66.4	45.8	85.0
132	98.3	77.4	143.8
130	112.3	76.9	142.7

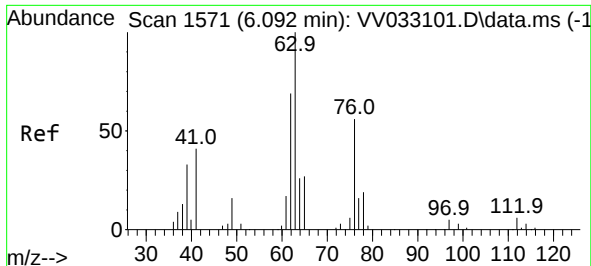


#35
Methylcyclohexane
Concen: 2.022 ug/L
RT: 6.050 min Scan# 1558
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion: 83 Resp: 6788

Ion	Ratio	Lower	Upper
83	100		
55	68.8	54.8	82.2
98	54.6	41.4	62.0





#37

1,2-Dichloropropane

Concen: 2.216 ug/L m

RT: 6.098 min Scan# 1

Delta R.T. 0.007 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

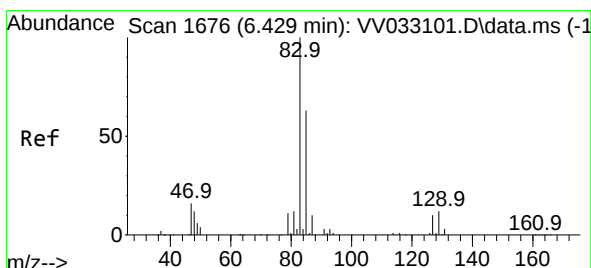
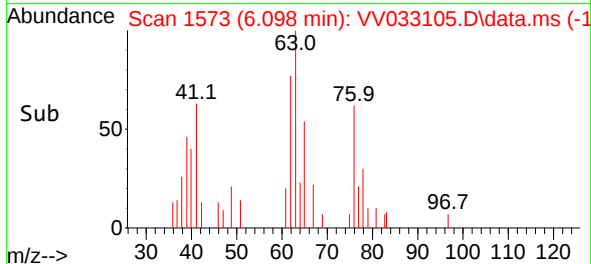
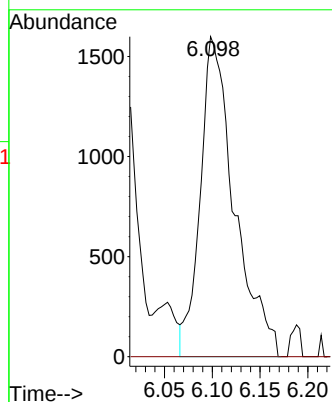
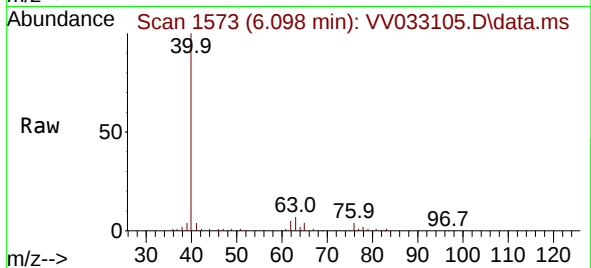
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 63 Resp: 3970

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#38

Bromodichloromethane

Concen: 2.036 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. 0.010 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

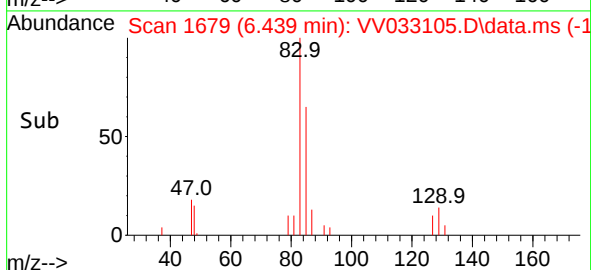
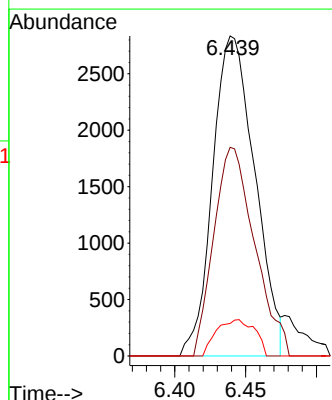
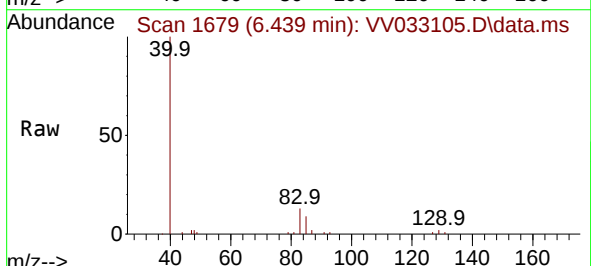
Tgt Ion: 83 Resp: 5881

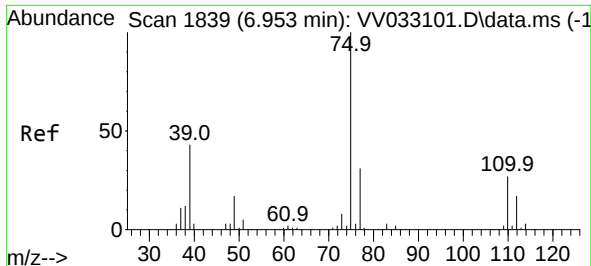
Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.6

127 10.2 7.4 11.2





#39

cis-1,3-Dichloropropene

Concen: 1.965 ug/L

RT: 6.963 min Scan# 1842

Delta R.T. 0.013 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

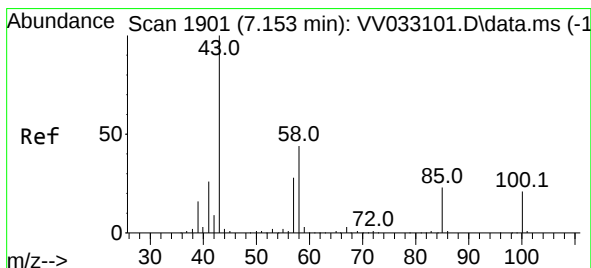
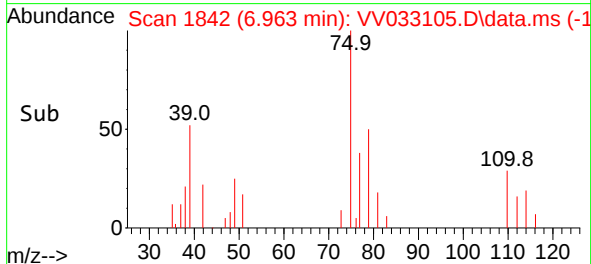
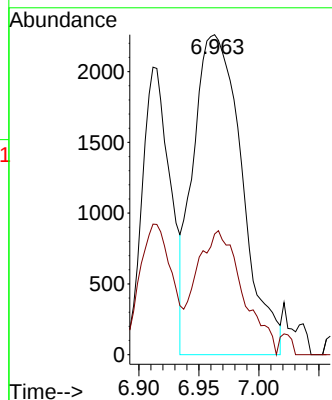
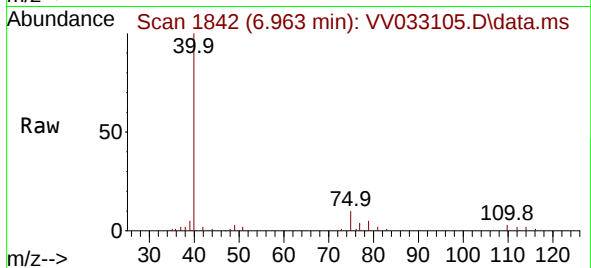
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 75 Resp: 6390

Ion Ratio Lower Upper

75 100

77 37.7 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 3.266 ug/L m

RT: 7.169 min Scan# 1906

Delta R.T. 0.016 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

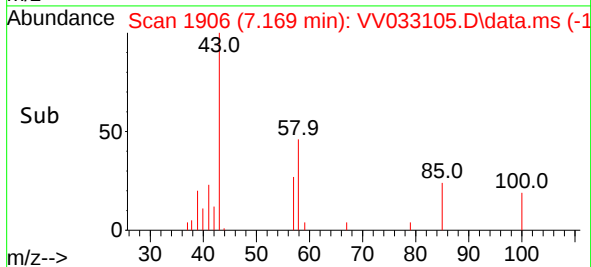
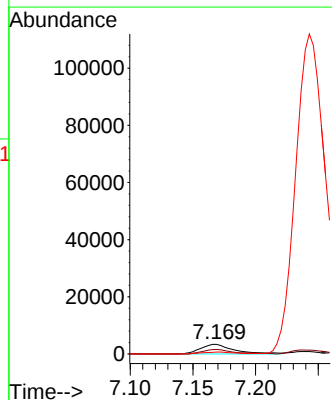
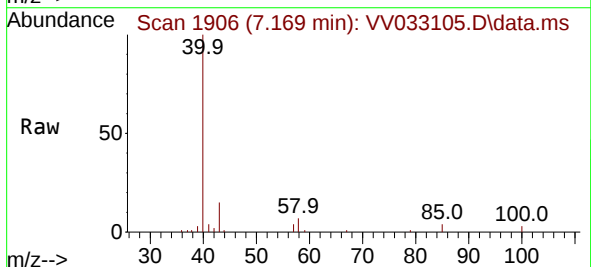
Tgt Ion: 43 Resp: 6213

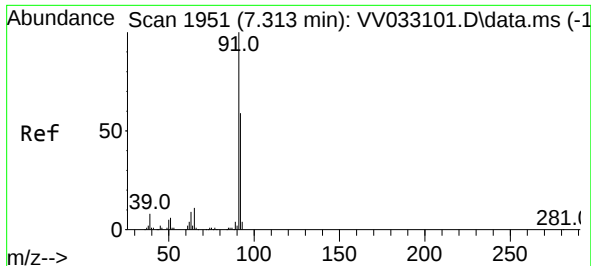
Ion Ratio Lower Upper

43 100

58 43.6 34.5 51.7

100 18.4 17.0 25.6





#42

Toluene

Concen: 2.002 ug/L

RT: 7.323 min Scan# 1951

Delta R.T. 0.010 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

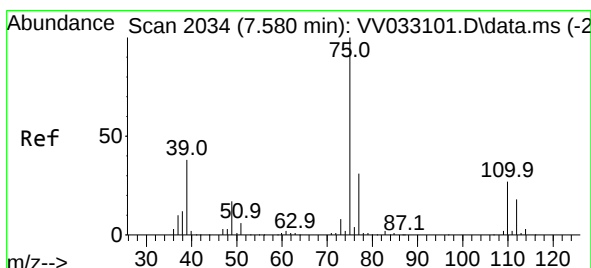
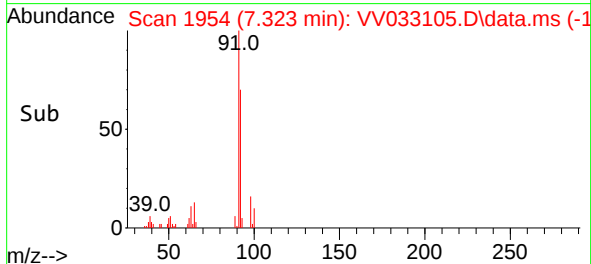
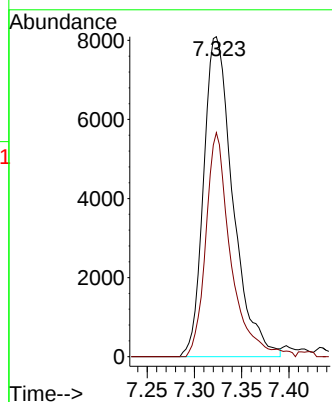
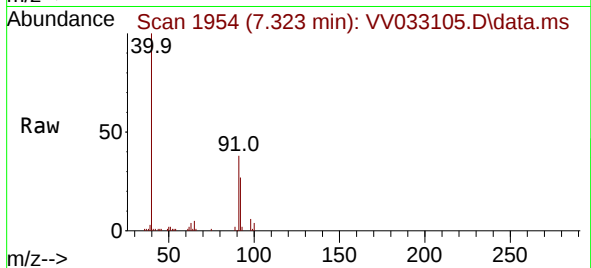
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 91 Resp: 17468

Ion Ratio Lower Upper

91 100

92 70.0 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 2.081 ug/L m

RT: 7.587 min Scan# 2036

Delta R.T. 0.010 min

Lab File: VV033105.D

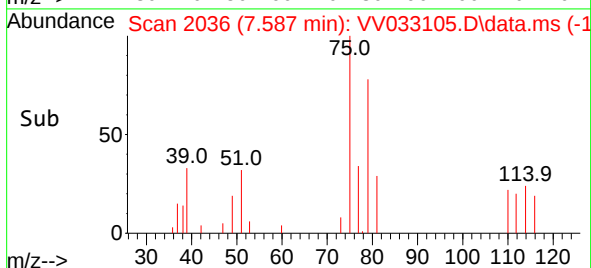
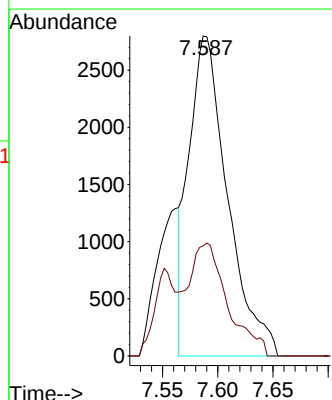
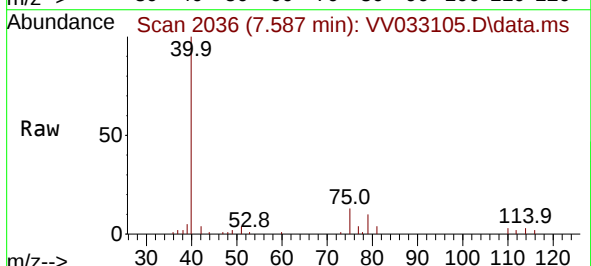
Acq: 05 Dec 2023 13:11

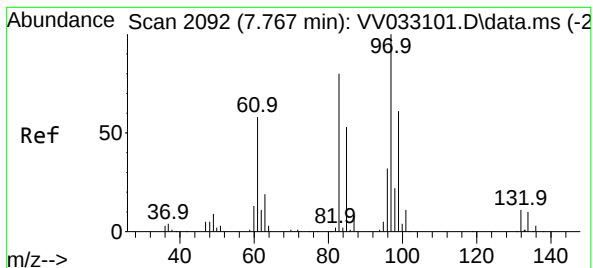
Tgt Ion: 75 Resp: 6842

Ion Ratio Lower Upper

75 100

77 34.4 22.0 41.0





#45

1,1,2-Trichloroethane

Concen: 1.851 ug/L

RT: 7.780 min Scan# 2092

Delta R.T. 0.013 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 97 Resp: 3846

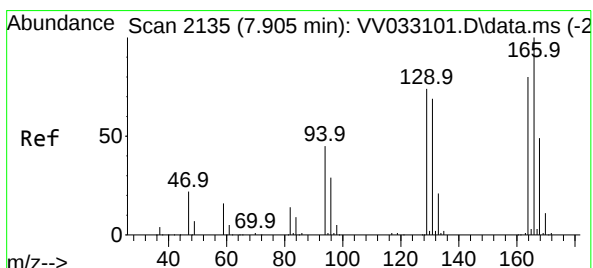
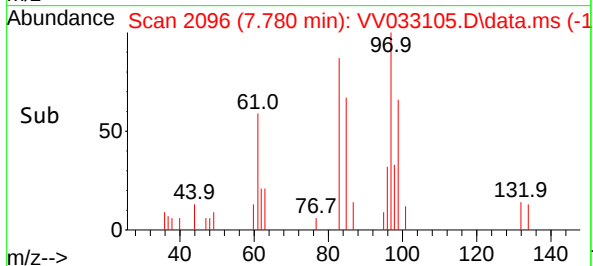
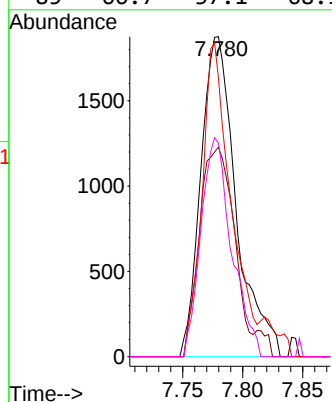
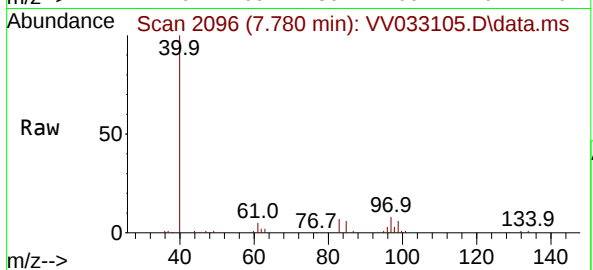
Ion Ratio Lower Upper

97 100

99 74.3 43.2 80.2

83 87.1 55.8 103.6

85 66.7 37.1 68.9



#46

Tetrachloroethene

Concen: 2.005 ug/L

RT: 7.912 min Scan# 2137

Delta R.T. 0.007 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Tgt Ion: 164 Resp: 3986

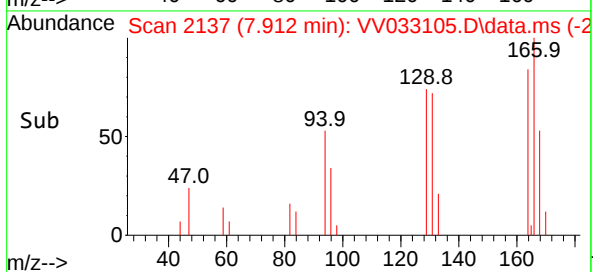
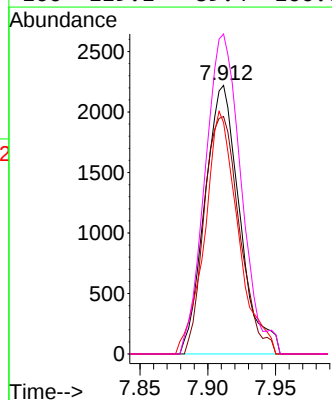
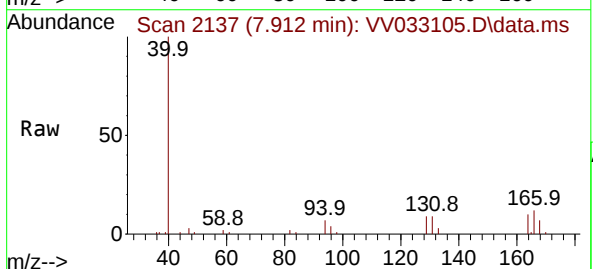
Ion Ratio Lower Upper

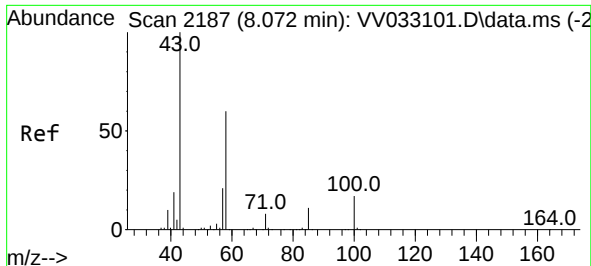
164 100

129 88.4 65.6 121.8

131 86.1 64.7 120.1

166 119.1 89.4 166.0

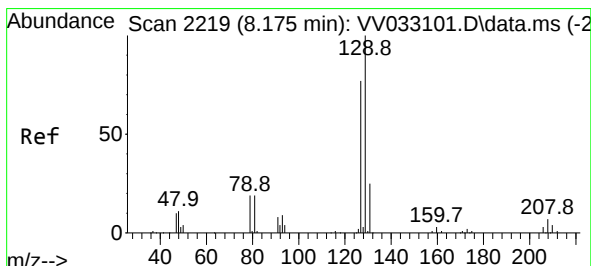
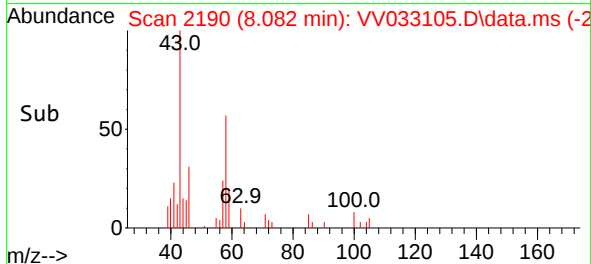
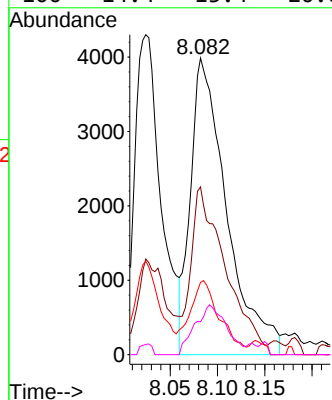
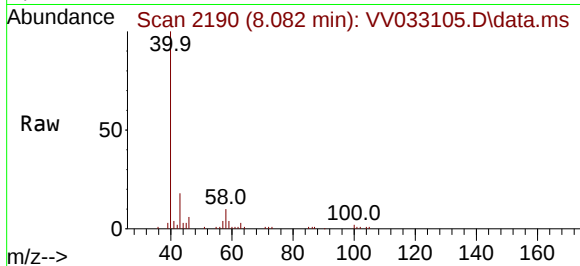




#48
2-Hexanone
Concen: 6.734 ug/L m
RT: 8.082 min Scan# 2187
Delta R.T. 0.010 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

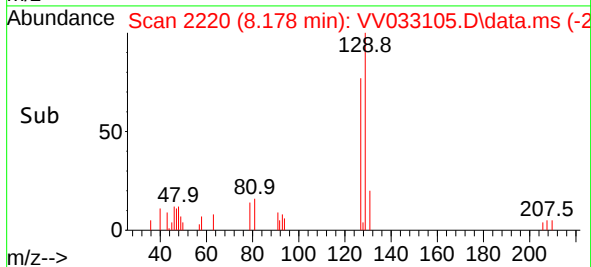
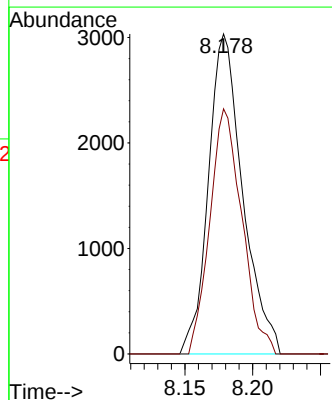
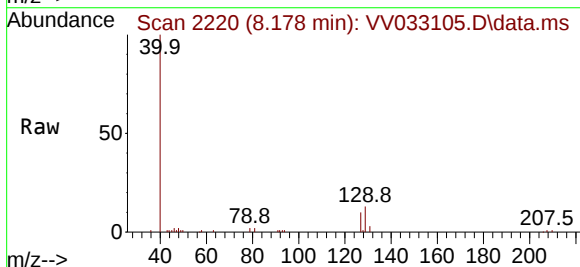
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

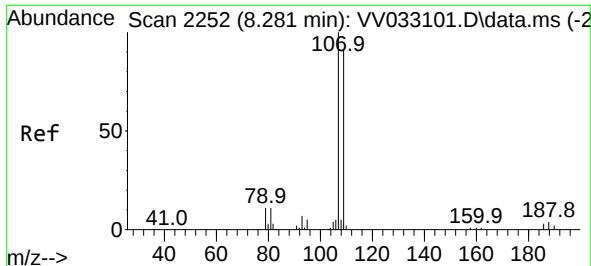
Tgt Ion: 43	Resp: 10621
Ion Ratio	Lower Upper
43 100	
58 46.9	47.9 71.9#
57 21.1	17.4 26.0
100 14.4	13.4 20.0



#49
Dibromochloromethane
Concen: 2.150 ug/L
RT: 8.178 min Scan# 2220
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion: 129	Resp: 5333
Ion Ratio	Lower Upper
129 100	
127 76.6	54.1 100.5





#50

1,2-Dibromoethane

Concen: 1.871 ug/L

RT: 8.291 min Scan# 21

Delta R.T. 0.010 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

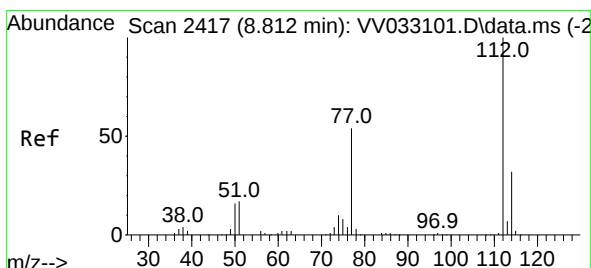
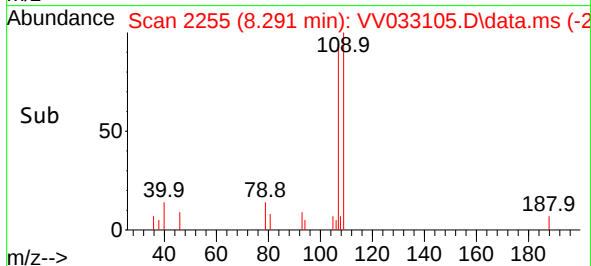
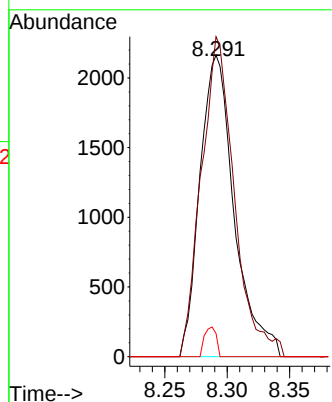
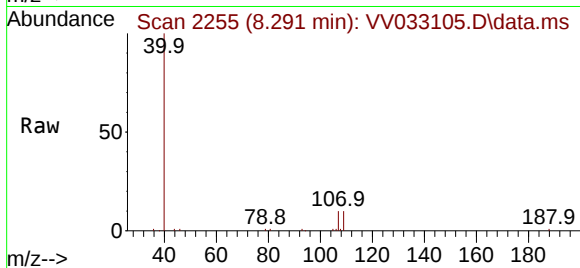
Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

Tgt Ion:107	Resp:	4145
Ion Ratio	Lower	Upper
107	100	
109	98.5	65.2 121.2
188	7.1	3.8 5.6#



#51

Chlorobenzene

Concen: 2.137 ug/L

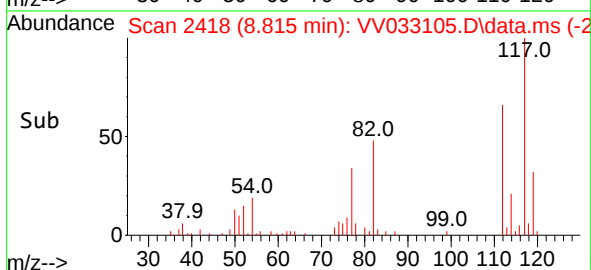
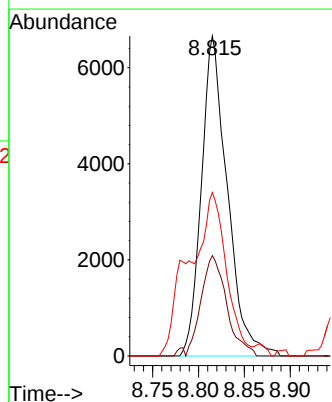
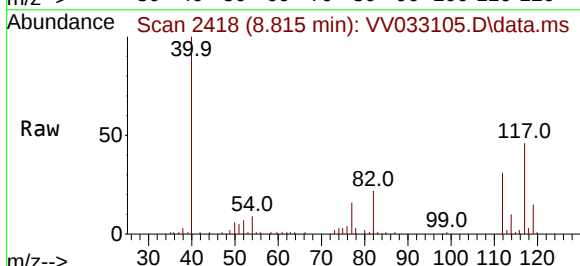
RT: 8.815 min Scan# 2418

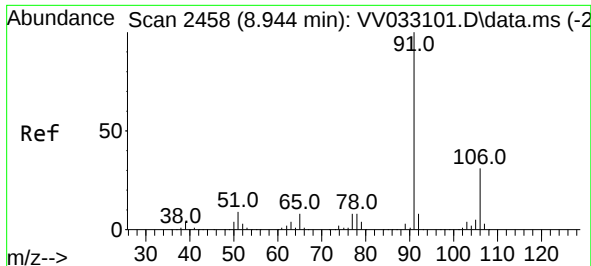
Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Tgt Ion:112	Resp:	13108
Ion Ratio	Lower	Upper
112	100	
114	31.4	22.9 42.5
77	51.1	42.6 64.0





#52

Ethylbenzene

Concen: 1.819 ug/L

RT: 8.953 min Scan# 2458

Delta R.T. 0.007 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

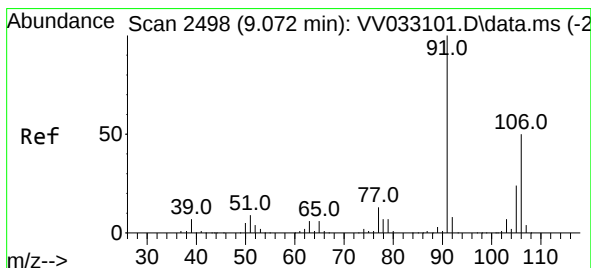
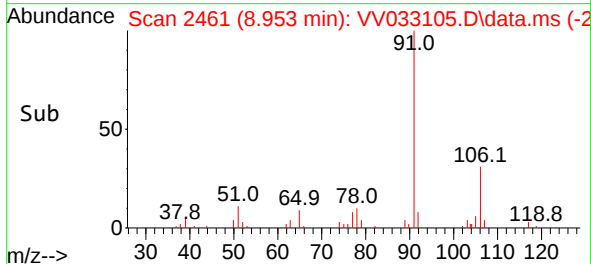
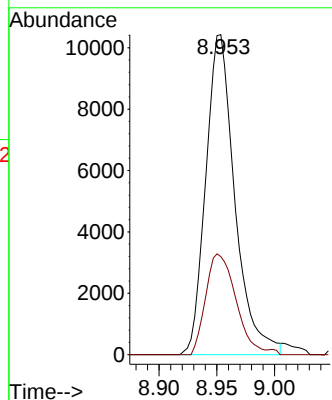
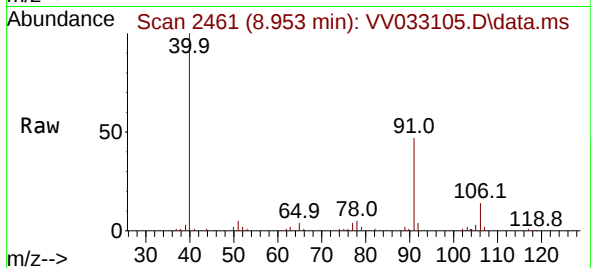
MDL-MED-SOIL-QT4-2023-08

Tgt Ion: 91 Resp: 18263

Ion Ratio Lower Upper

91 100

106 30.7 22.6 42.0



#53

m,p-Xylene

Concen: 1.718 ug/L

RT: 9.079 min Scan# 2500

Delta R.T. 0.007 min

Lab File: VV033105.D

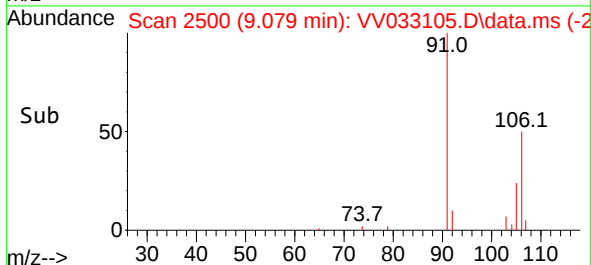
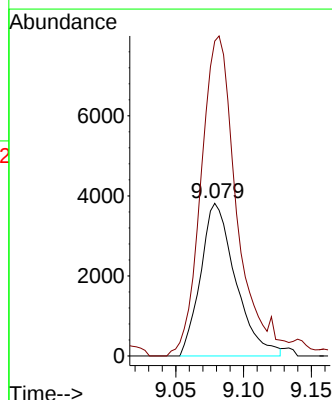
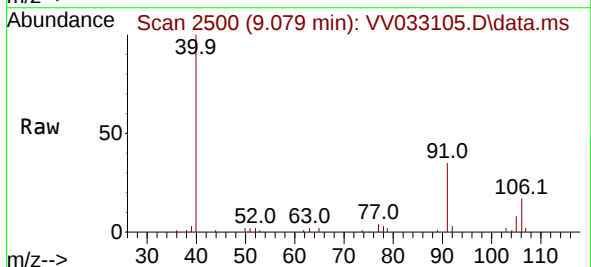
Acq: 05 Dec 2023 13:11

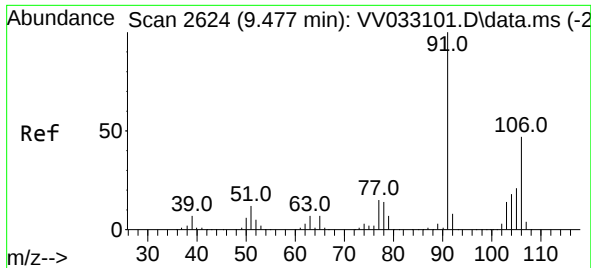
Tgt Ion: 106 Resp: 6833

Ion Ratio Lower Upper

106 100

91 206.3 145.2 269.6

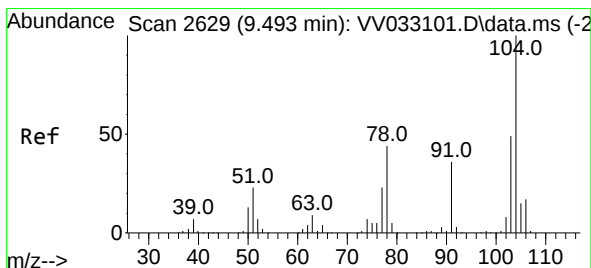
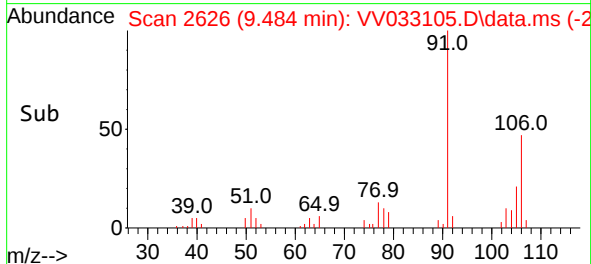
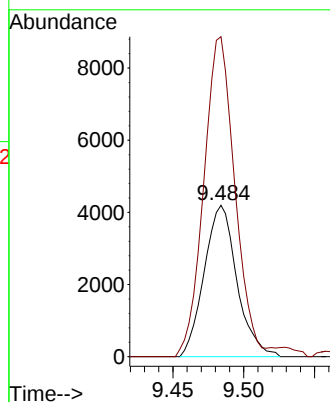
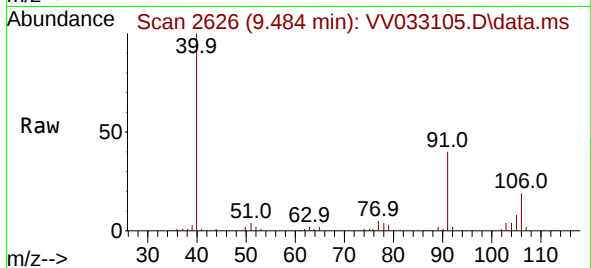




#54
o-Xylene
Concen: 1.717 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.007 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

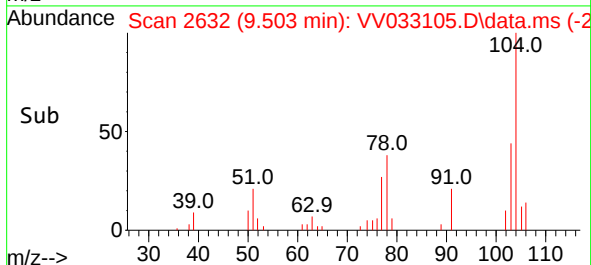
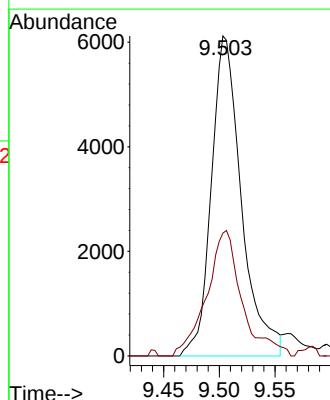
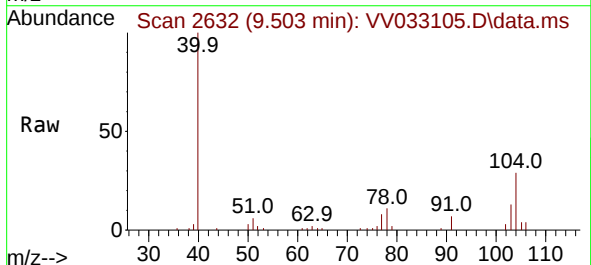
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2023-08

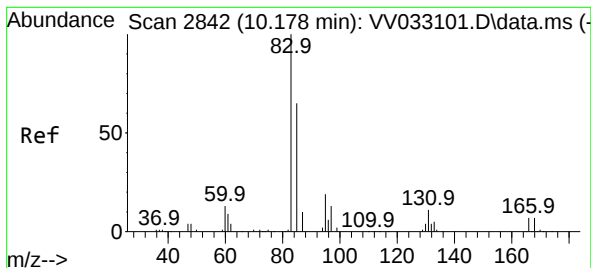
Tgt Ion:106 Resp: 6738
Ion Ratio Lower Upper
106 100
91 211.4 147.8 274.6



#55
Styrene
Concen: 1.692 ug/L
RT: 9.503 min Scan# 2632
Delta R.T. 0.010 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion:104 Resp: 11489
Ion Ratio Lower Upper
104 100
78 38.4 30.2 56.0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.312 ug/L

RT: 10.178 min Scan# 2842

Delta R.T. 0.000 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

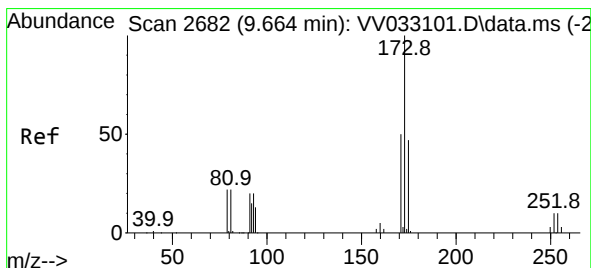
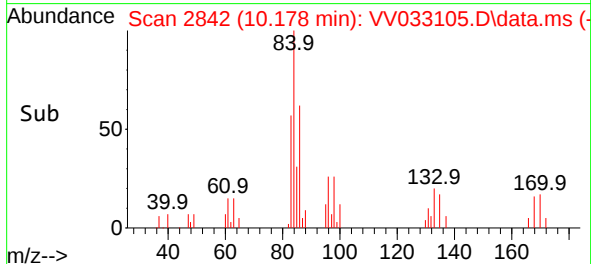
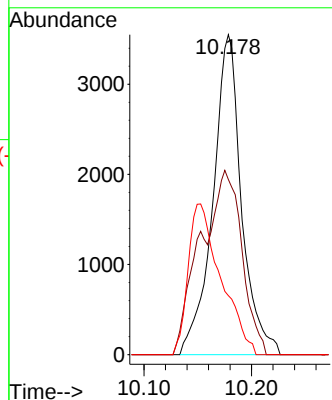
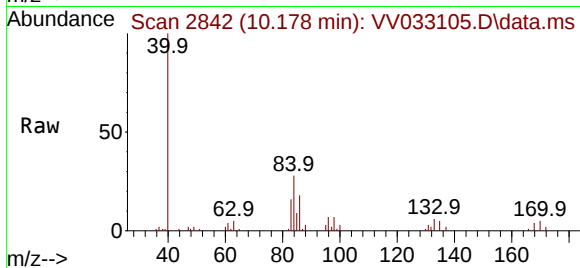
Tgt Ion: 83 Resp: 6562

Ion Ratio Lower Upper

83 100

85 54.8 45.5 84.5

131 18.5 9.7 14.5#



#59

Bromoform

Concen: 1.928 ug/L

RT: 9.667 min Scan# 2683

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

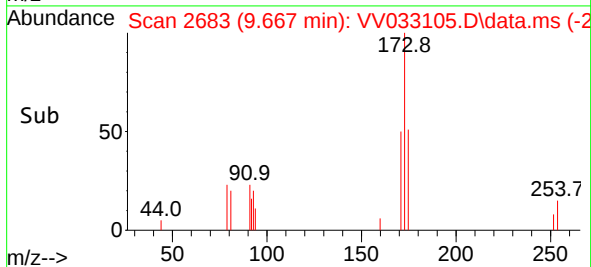
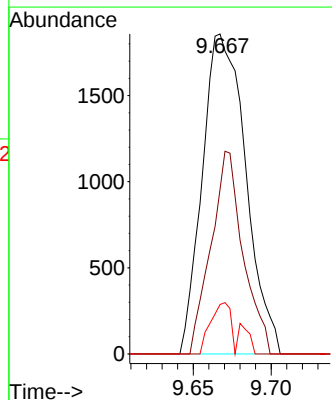
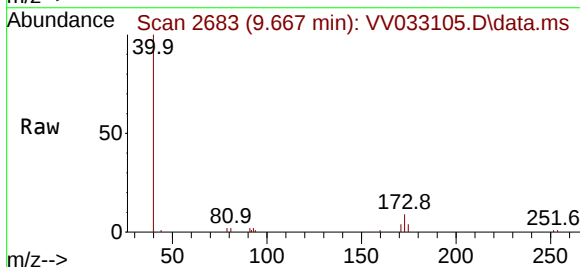
Tgt Ion: 173 Resp: 3596

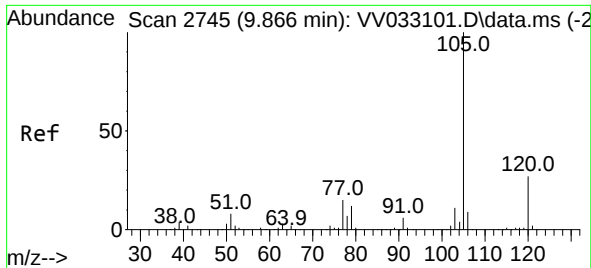
Ion Ratio Lower Upper

173 100

175 46.8 38.7 58.1

254 7.4 8.0 12.0#

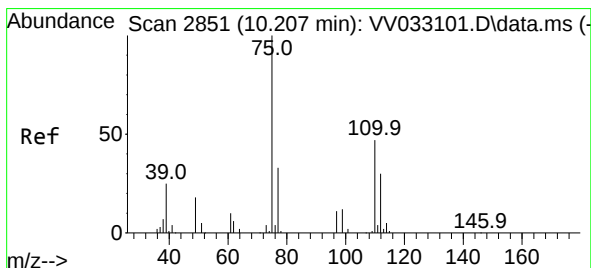
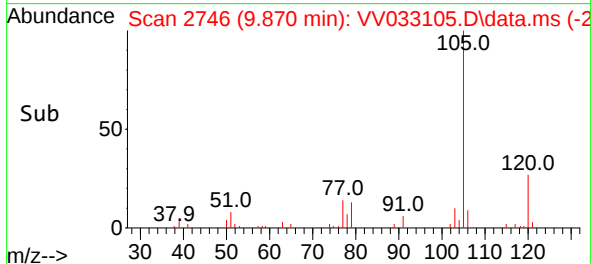
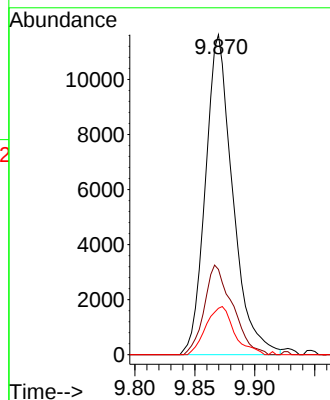
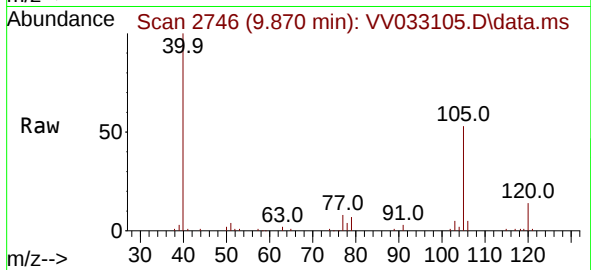




#60
Isopropylbenzene
Concen: 1.858 ug/L
RT: 9.870 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

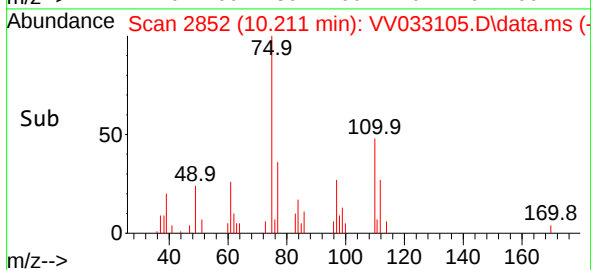
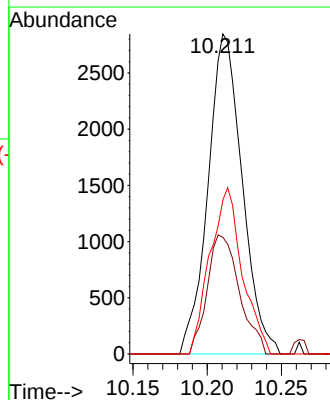
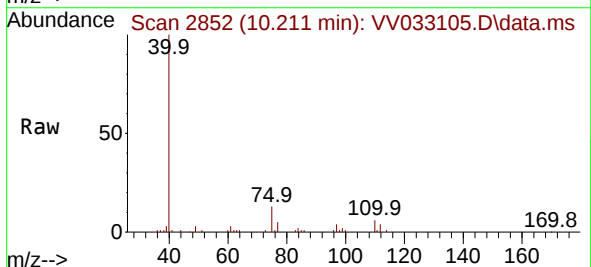
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

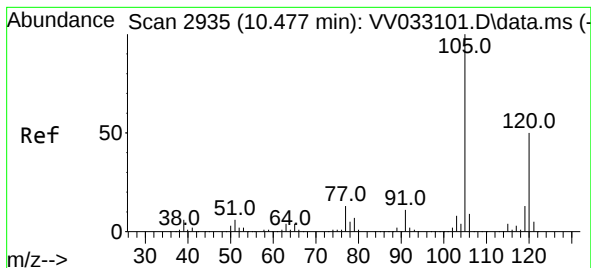
Tgt Ion:105 Resp: 18409
Ion Ratio Lower Upper
105 100
120 28.9 21.3 31.9
77 15.6 12.0 18.0



#61
1,2,3-Trichloropropane
Concen: 2.129 ug/L
RT: 10.211 min Scan# 2852
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion: 75 Resp: 4561
Ion Ratio Lower Upper
75 100
77 35.1 27.0 40.6
110 49.0 38.1 57.1





#62

1,3,5-Trimethylbenzene

Concen: 1.721 ug/L

RT: 10.481 min Scan# 2935

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

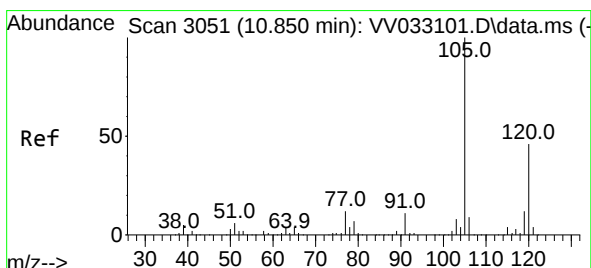
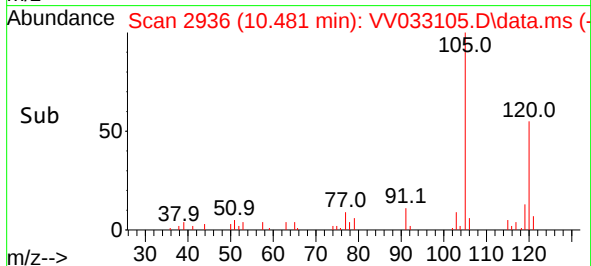
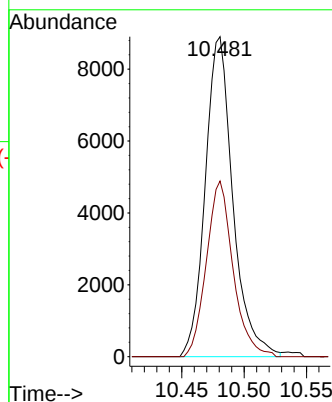
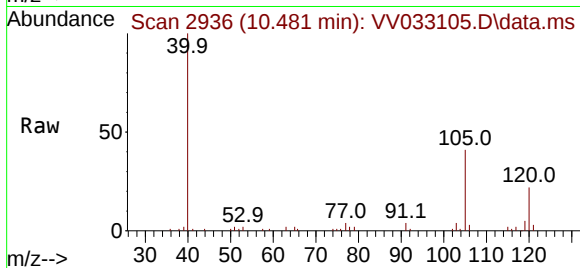
MDL-MED-SOIL-QT4-2023-08

Tgt Ion:105 Resp: 13739

Ion Ratio Lower Upper

105 100

120 53.0 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 1.760 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VV033105.D

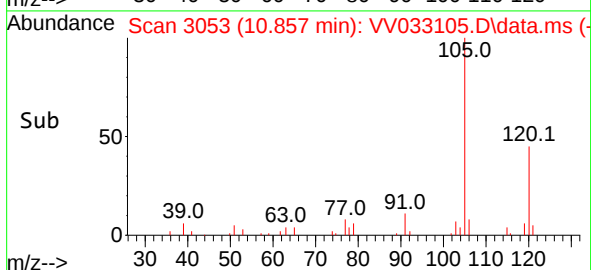
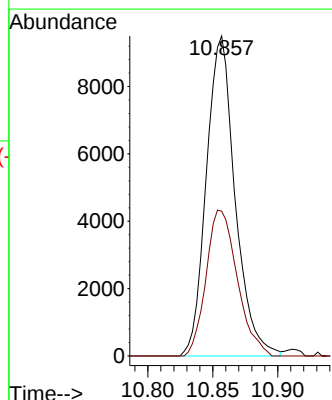
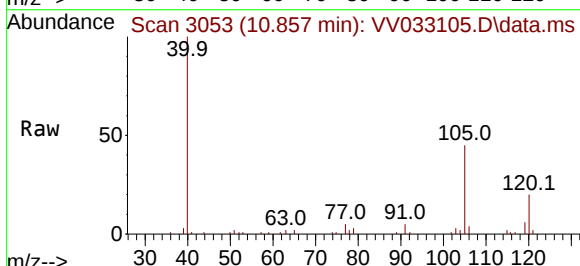
Acq: 05 Dec 2023 13:11

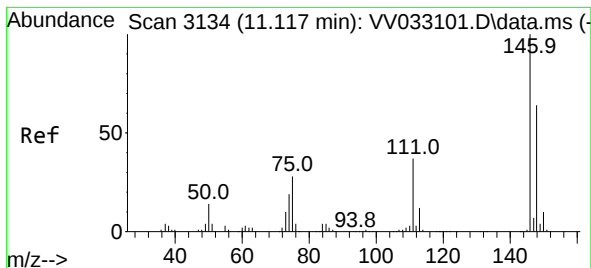
Tgt Ion:105 Resp: 14630

Ion Ratio Lower Upper

105 100

120 49.3 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 1.985 ug/L

RT: 11.120 min Scan# 3134

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

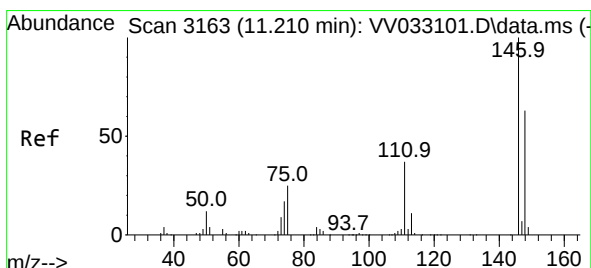
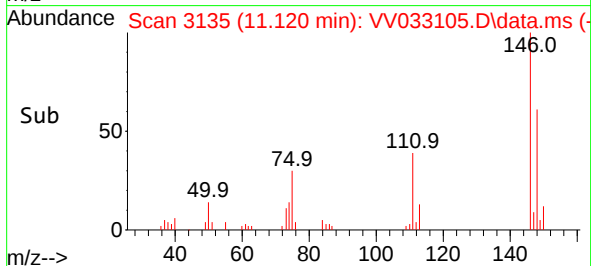
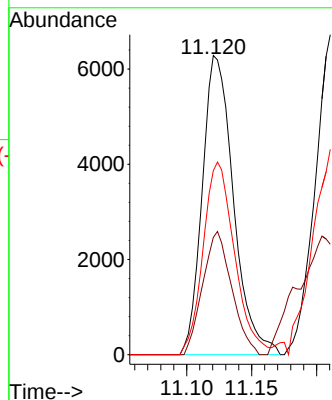
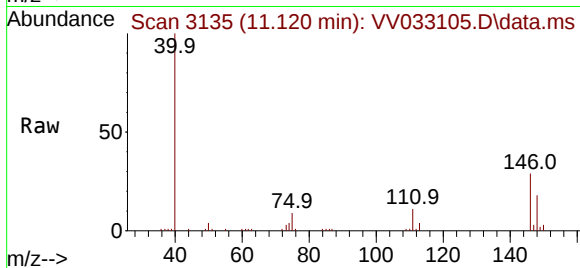
Tgt Ion:146 Resp: 10508

Ion Ratio Lower Upper

146 100

111 39.2 26.2 48.6

148 61.5 44.5 82.7



#65

1,4-Dichlorobenzene

Concen: 2.121 ug/L

RT: 11.210 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

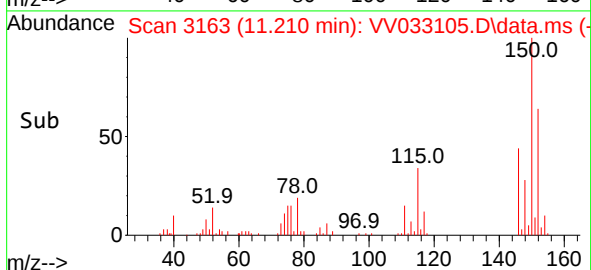
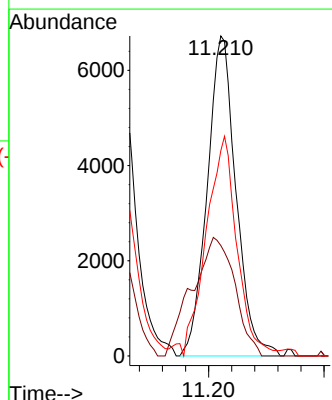
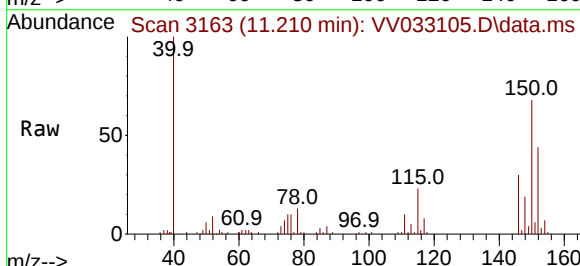
Tgt Ion:146 Resp: 11661

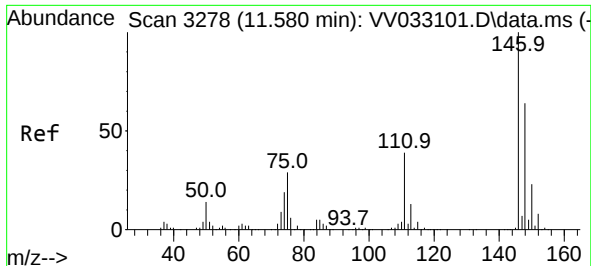
Ion Ratio Lower Upper

146 100

111 34.5 25.9 48.1

148 64.2 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 2.110 ug/L

RT: 11.580 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

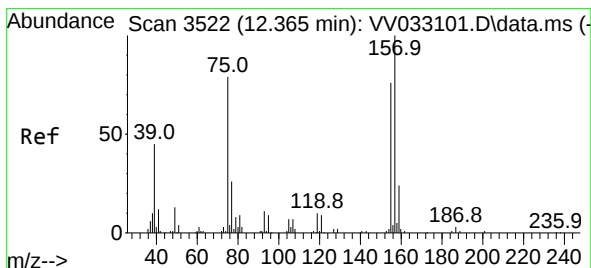
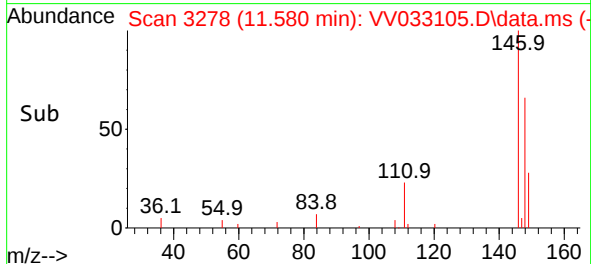
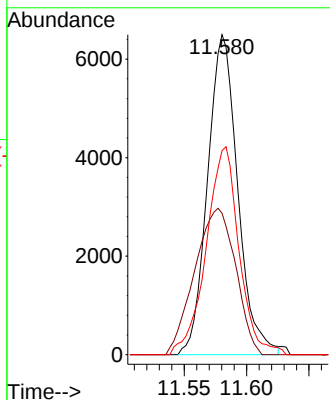
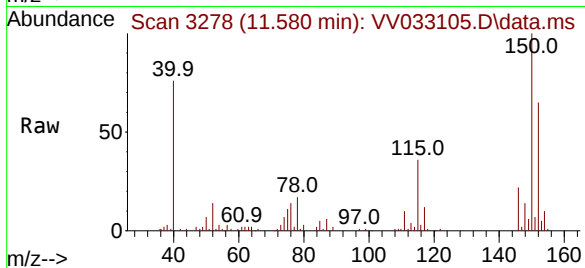
Tgt Ion:146 Resp: 10949

Ion Ratio Lower Upper

146 100

111 44.2 32.4 48.6

148 63.8 51.8 77.8



#68

1,2-Dibromo-3-chloropropane

Concen: 1.822 ug/L

RT: 12.365 min Scan# 3522

Delta R.T. 0.000 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

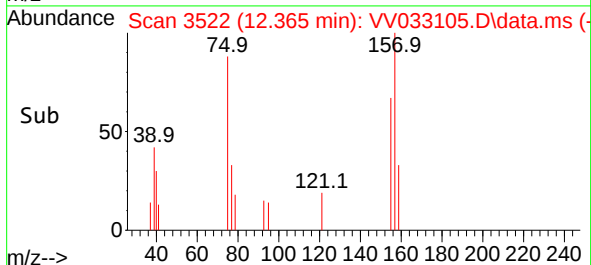
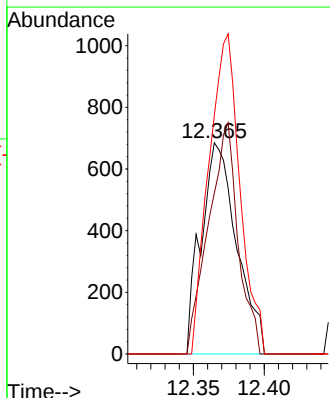
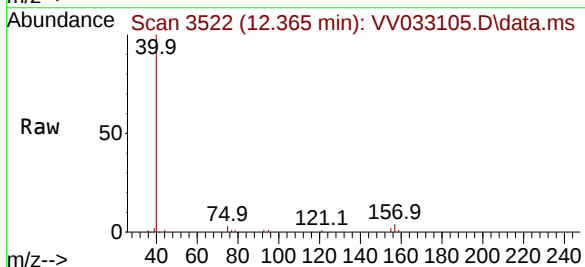
Tgt Ion: 75 Resp: 1198

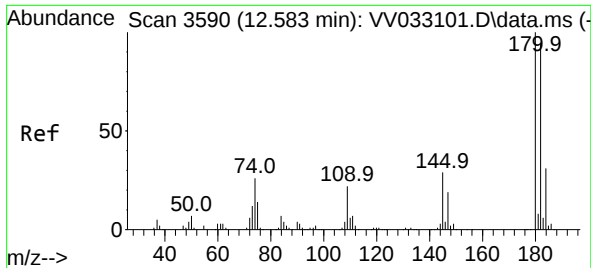
Ion Ratio Lower Upper

75 100

155 76.2 75.8 113.6

157 113.1 95.4 143.0

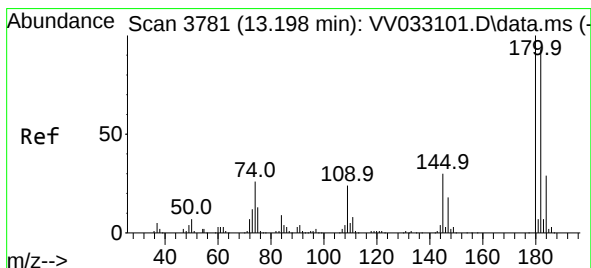
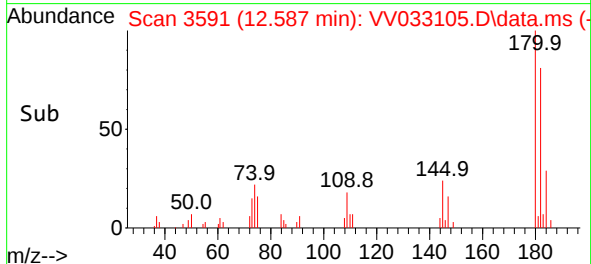
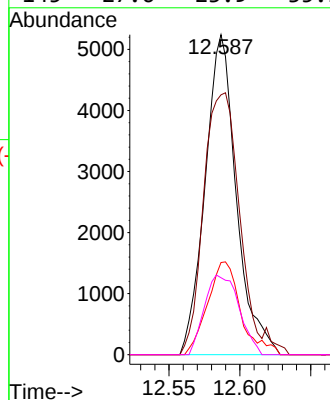
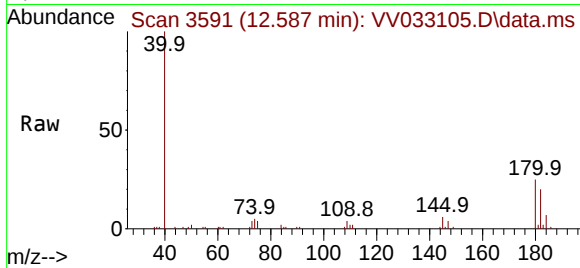




#69
1,3,5-Trichlorobenzene
Concen: 1.893 ug/L
RT: 12.587 min Scan# 3591
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

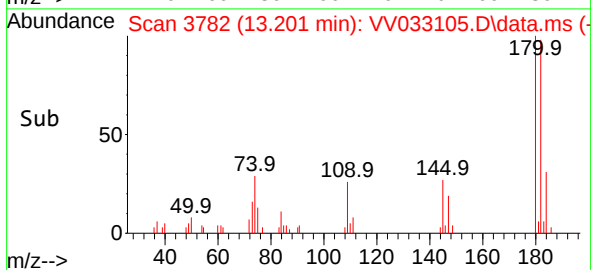
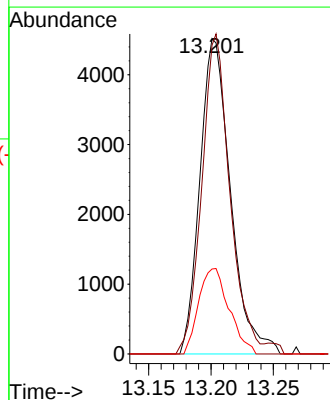
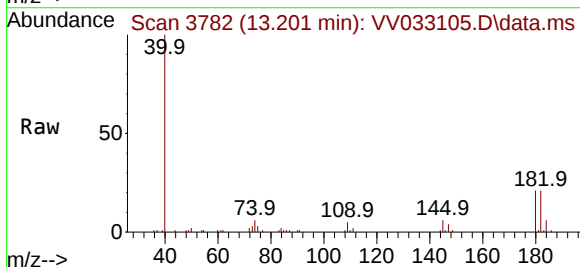
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2023-08

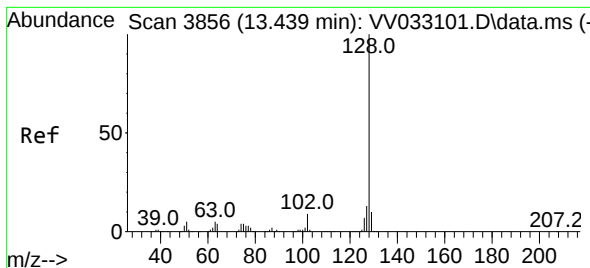
Tgt Ion:180	Resp:	8026	
Ion	Ratio	Lower	Upper
180	100		
182	92.8	76.2	114.4
184	30.1	24.2	36.4
145	27.6	23.9	35.9



#70
1,2,4-trichlorobenzene
Concen: 1.968 ug/L
RT: 13.201 min Scan# 3782
Delta R.T. 0.003 min
Lab File: VV033105.D
Acq: 05 Dec 2023 13:11

Tgt Ion:180	Resp:	7708	
Ion	Ratio	Lower	Upper
180	100		
182	93.0	76.3	114.5
145	26.9	23.4	35.0





#71

Naphthalene

Concen: 2.010 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.007 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

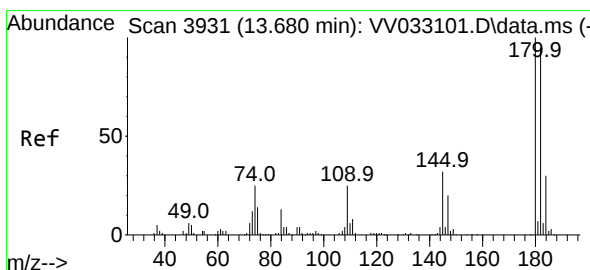
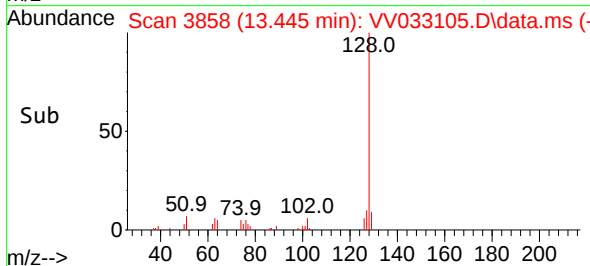
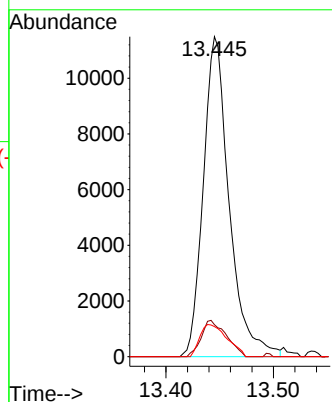
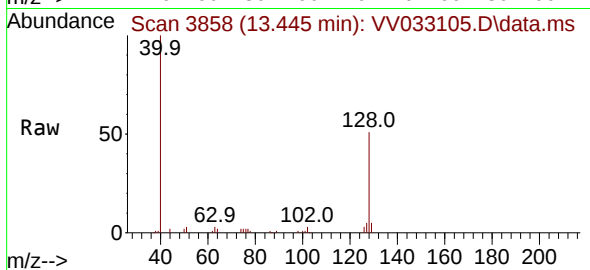
Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2023-08

Tgt Ion:	128	Resp:	19204
Ion Ratio	Lower	Upper	
128	100		
127	11.0	10.6	16.0
129	10.6	8.6	13.0



#72

1,2,3-Trichlorobenzene

Concen: 1.841 ug/L

RT: 13.683 min Scan# 3932

Delta R.T. 0.003 min

Lab File: VV033105.D

Acq: 05 Dec 2023 13:11

Tgt Ion:	180	Resp:	6958
Ion Ratio	Lower	Upper	
180	100		
182	97.2	75.2	112.8
145	28.4	24.9	37.3

