

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061925\
 Data File : VD080459.D
 Acq On : 19 Jun 2025 12:56
 Operator : RP/MD
 Sample : Q2117-03
 Misc : 5.00G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT2-2025-03

Quant Time: Jun 20 09:45:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061825SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 20 09:43:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.776	114	170619	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.582	117	171167	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.517	152	79474	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.276	65	62114	21.48	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	85.92%		
7) Chloroethane-d5	2.806	69	58620	23.75	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	95.00%		
11) 1,1-Dichloroethene-d2	3.917	65	22060	22.60	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	90.40%		
21) 2-Butanone-d5	6.994	46	24853	51.82	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	103.64%		
24) Chloroform-d	7.570	84	115174	24.52	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	98.08%		
26) 1,2-Dichloroethane-d4	8.229	65	59510	24.77	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.08%		
32) Benzene-d6	8.199	84	218076	23.17	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	92.68%		
36) 1,2-Dichloropropane-d6	9.211	67	73276	23.73	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	94.92%		
41) Toluene-d8	10.270	98	205949	23.41	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	93.64%		
43) trans-1,3-Dichloroprop...	10.523	79	29341	22.80	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	91.20%		
47) 2-Hexanone-d5	10.876	63	20208	43.09	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	86.18%		
56) 1,1,2,2-Tetrachloroeth...	12.652	84	66538	23.83	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	95.32%		
66) 1,2-Dichlorobenzene-d4	13.811	152	76871	26.67	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	106.68%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.935	85	3335	1.24	ug/L	92
3) Chloromethane	2.141	50	3749	1.48	ug/L	97
5) Vinyl chloride	2.288	62	4512	1.46	ug/L #	71
6) Bromomethane	2.694	94	3189	1.66	ug/L	72
8) Chloroethane	2.847	64	4682	2.20	ug/L	89
9) Trichlorofluoromethane	3.176	101	5250	1.24	ug/L #	78
10) 1,1,2-Trichloro-1,2,2-...	3.958	101	3874m	1.47	ug/L	
12) 1,1-Dichloroethene	3.947	96	3400m	1.59	ug/L	
13) Acetone	4.017	43	1462	3.58	ug/L	58
14) Carbon disulfide	4.264	76	9253m	1.27	ug/L	
15) Methyl Acetate	4.570	43	1510m	1.53	ug/L	
16) Methylene chloride	4.805	84	12769m	4.83	ug/L	
17) trans-1,2-Dichloroethene	5.311	96	2849m	1.27	ug/L	
18) Methyl tert-butyl Ether	5.311	73	5570m	1.24	ug/L	
19) 1,1-Dichloroethane	6.117	63	5899	1.40	ug/L	96
20) cis-1,2-Dichloroethene	7.088	96	3031m	1.24	ug/L	
22) 2-Butanone	7.082	43	2186m	3.68	ug/L	
23) Bromochloromethane	7.435	128	1772m	1.35	ug/L	
25) Chloroform	7.599	83	12642	2.61	ug/L	91

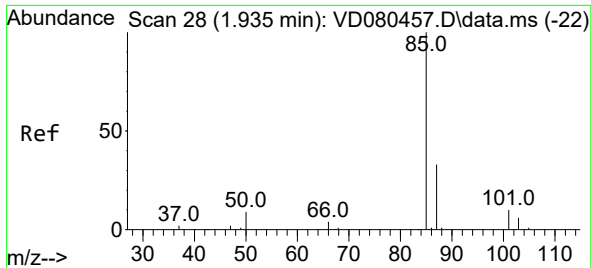
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 Data File : VD080459.D
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 ClientSampleId :
 MDL-SOIL-QT2-2025-03

Quant Time: Jun 20 09:45:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061825SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 20 09:43:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	8.323	62	3727	1.37	ug/L #	69
29) Cyclohexane	7.888	56	3514m	0.99	ug/L	
30) 1,1,1-Trichloroethane	7.788	97	5243	1.30	ug/L	95
31) Carbon tetrachloride	7.994	117	5026m	1.30	ug/L	
33) Benzene	8.252	78	12861	1.37	ug/L	100
34) Trichloroethene	9.029	95	3387	1.25	ug/L	94
35) Methylcyclohexane	9.276	83	4025	1.01	ug/L	97
38) Bromodichloromethane	9.576	83	4241	1.23	ug/L	98
39) cis-1,3-Dichloropropene	10.011	75	5095	1.30	ug/L	98
40) 4-Methyl-2-pentanone	10.158	43	3216	2.40	ug/L #	88
42) Toluene	10.335	91	13633	1.31	ug/L	80
44) trans-1,3-Dichloropropene	10.558	75	5885	1.77	ug/L	83
45) 1,1,2-Trichloroethane	10.729	97	2824	1.33	ug/L #	86
46) Tetrachloroethene	10.811	164	3267	1.35	ug/L	88
48) 2-Hexanone	10.923	43	3039	3.11	ug/L #	85
49) Dibromochloromethane	11.082	129	3552	1.37	ug/L #	73
50) 1,2-Dibromoethane	11.176	107	2576	1.26	ug/L #	89
51) Chlorobenzene	11.599	112	9670	1.35	ug/L	97
52) Ethylbenzene	11.682	91	13833	1.23	ug/L	85
53) m,p-Xylene	11.787	106	4790	1.08	ug/L	95
54) o-Xylene	12.117	106	4245	1.02	ug/L	80
55) Styrene	12.129	104	7342	1.00	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.670	83	3866	1.49	ug/L #	82
59) Bromoform	12.293	173	2282	1.46	ug/L #	95
60) Isopropylbenzene	12.423	105	11591	1.23	ug/L	98
61) 1,2,3-Trichloropropane	12.723	75	2149	1.44	ug/L	90
62) 1,3,5-Trimethylbenzene	12.905	105	9127	1.26	ug/L	94
63) 1,2,4-Trimethylbenzene	13.205	105	8447	1.18	ug/L	95
64) 1,3-Dichlorobenzene	13.458	146	6507	1.32	ug/L	98
65) 1,4-Dichlorobenzene	13.540	146	7018	1.37	ug/L	92
67) 1,2-Dichlorobenzene	13.829	146	6540	1.47	ug/L	99
68) 1,2-Dibromo-3-chloropr...	14.452	75	393m	1.13	ug/L	
69) 1,3,5-Trichlorobenzene	14.593	180	4904	1.44	ug/L	98
70) 1,2,4-trichlorobenzene	15.093	180	4314	1.55	ug/L	98
71) Naphthalene	15.323	128	6920	1.37	ug/L	99
72) 1,2,3-Trichlorobenzene	15.517	180	3640	1.39	ug/L	93

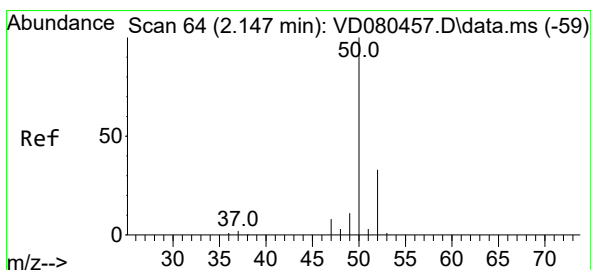
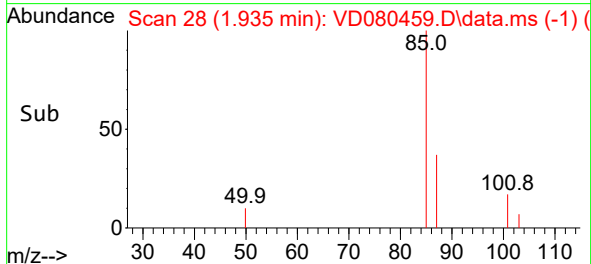
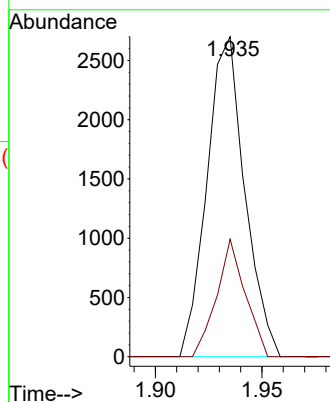
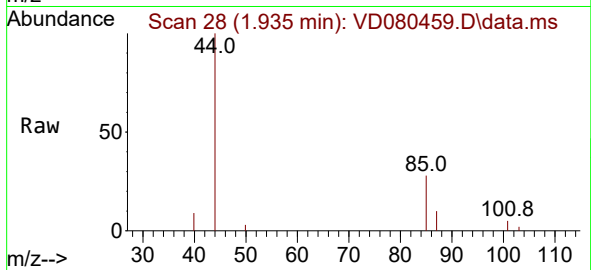
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#2
Dichlorodifluoromethane
Concen: 1.24 ug/L
RT: 1.935 min Scan# 21
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

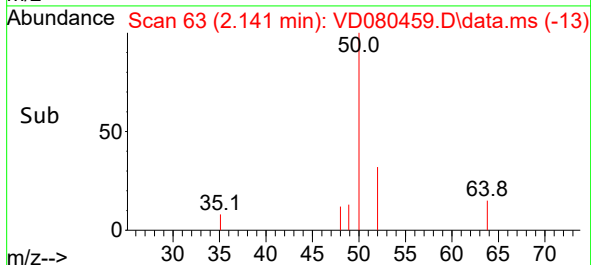
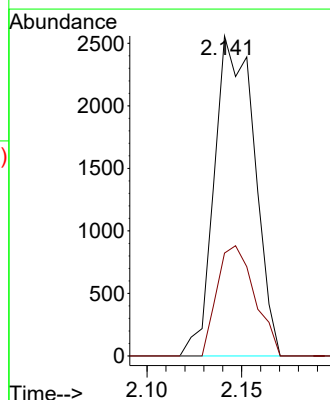
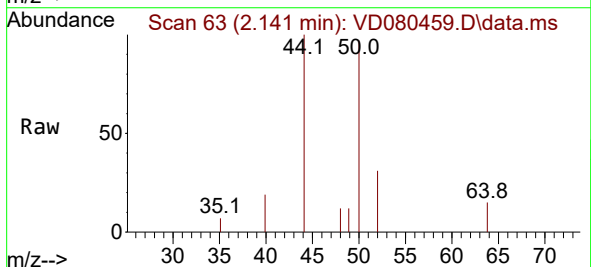
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT2-2025-03

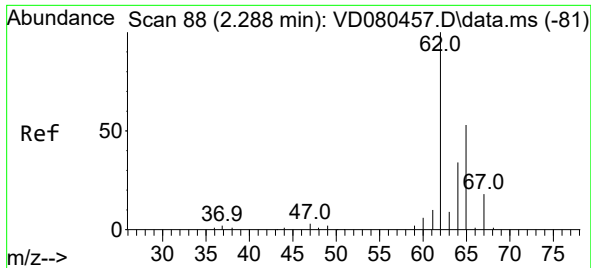
Tgt Ion: 85 Resp: 3335
Ion Ratio Lower Upper
85 100
87 27.8 25.9 38.9



#3
Chloromethane
Concen: 1.48 ug/L
RT: 2.141 min Scan# 63
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion: 50 Resp: 3749
Ion Ratio Lower Upper
50 100
52 32.1 23.8 44.2

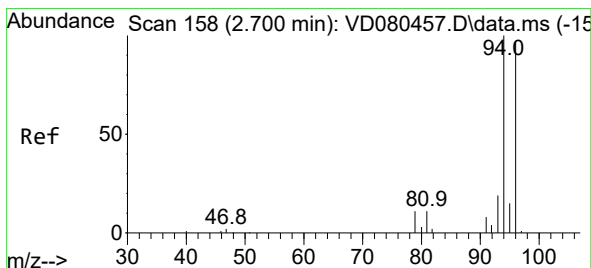
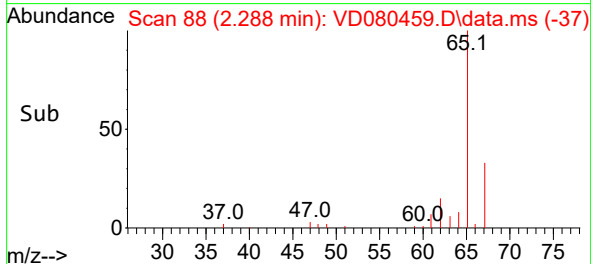
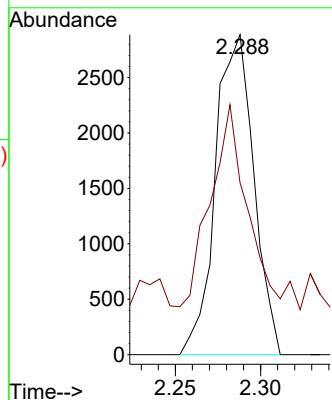
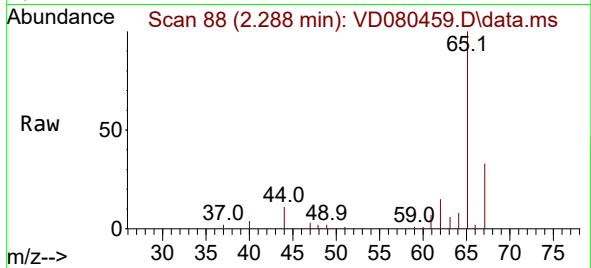




#5
 Vinyl chloride
 Concen: 1.46 ug/L
 RT: 2.288 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VD080459.D
 Acq: 19 Jun 2025 12:56

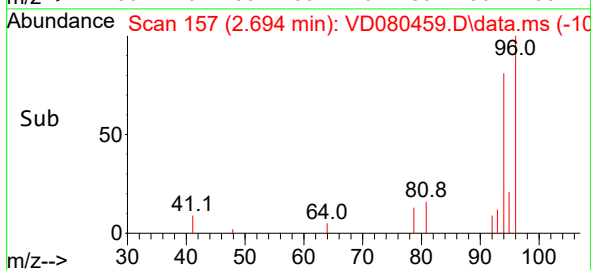
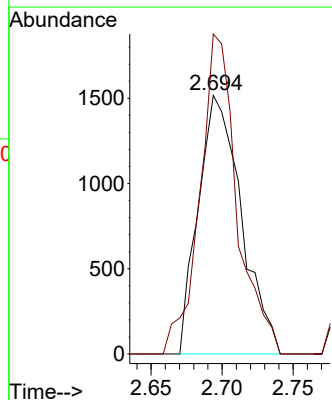
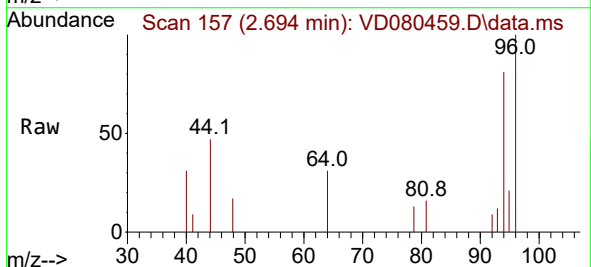
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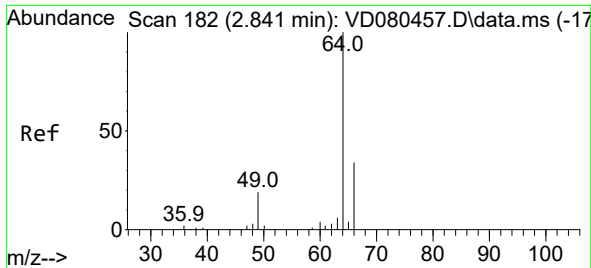
Tgt Ion: 62 Resp: 4512
 Ion Ratio Lower Upper
 62 100
 64 53.7 25.6 47.6#



#6
 Bromomethane
 Concen: 1.66 ug/L
 RT: 2.694 min Scan# 157
 Delta R.T. -0.006 min
 Lab File: VD080459.D
 Acq: 19 Jun 2025 12:56

Tgt Ion: 94 Resp: 3189
 Ion Ratio Lower Upper
 94 100
 96 123.7 67.6 125.6

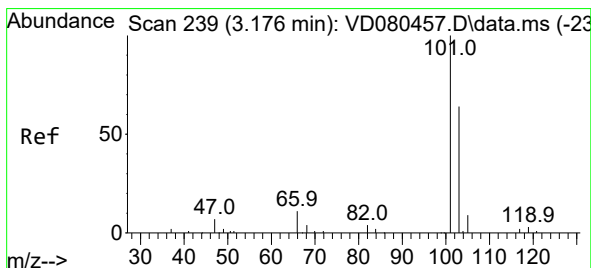
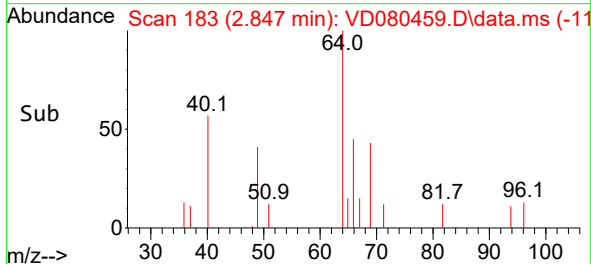
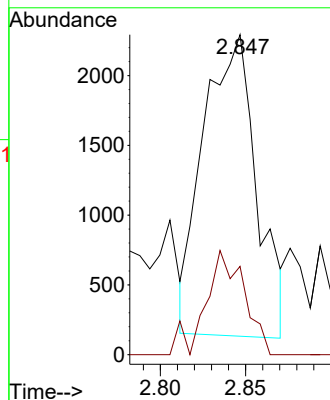
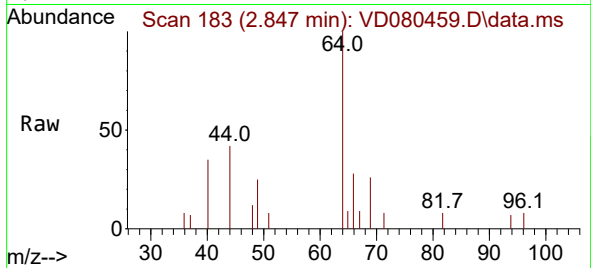




#8
Chloroethane
Concen: 2.20 ug/L
RT: 2.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

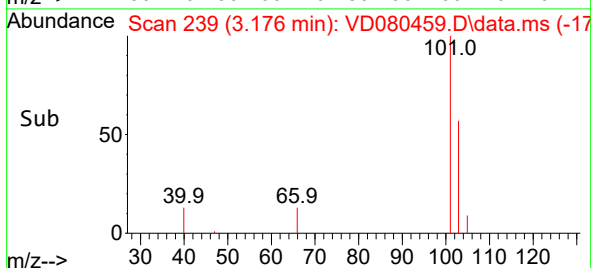
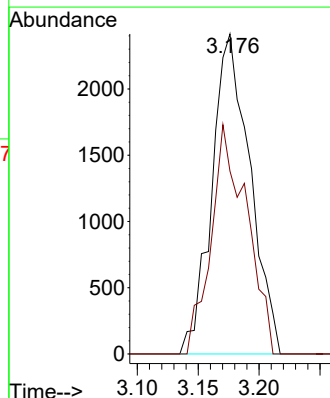
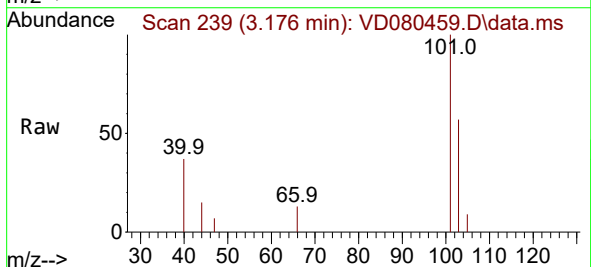
Instrument :
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ClientSampleId :
MDL-SOIL-QT2-2025-03

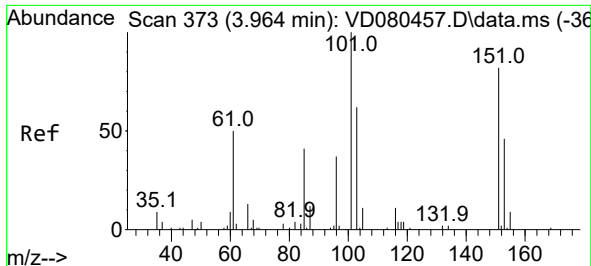
Tgt Ion: 64 Resp: 4682
Ion Ratio Lower Upper
64 100
66 27.6 23.9 44.3



#9
Trichlorofluoromethane
Concen: 1.24 ug/L
RT: 3.176 min Scan# 239
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion:101 Resp: 5250
Ion Ratio Lower Upper
101 100
103 46.2 51.0 76.4#

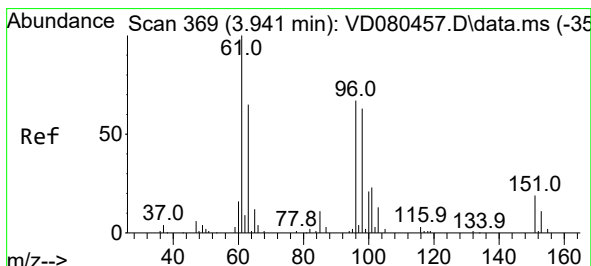
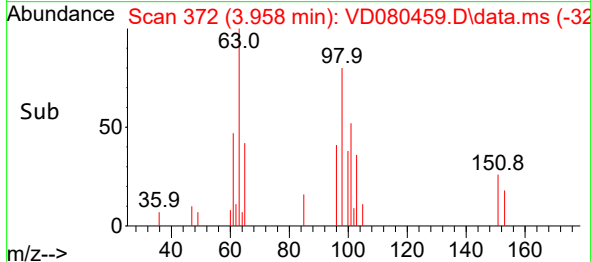
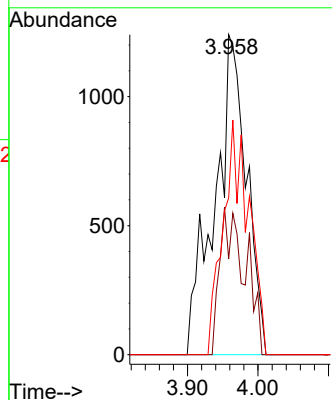
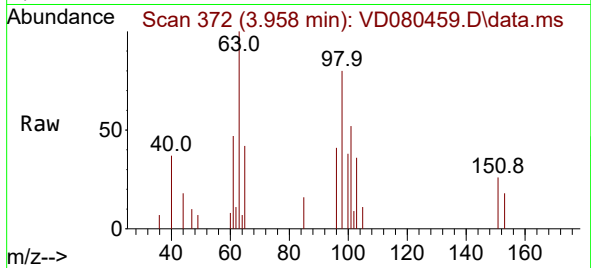




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.47 ug/L m
 RT: 3.958 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VD080459.D
 Acq: 19 Jun 2025 12:56

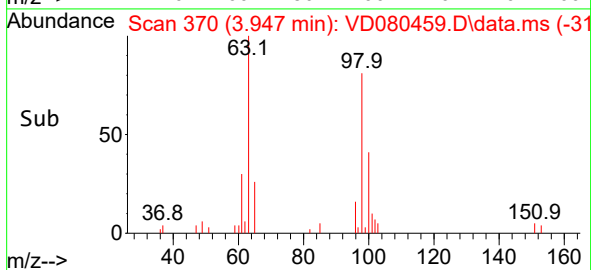
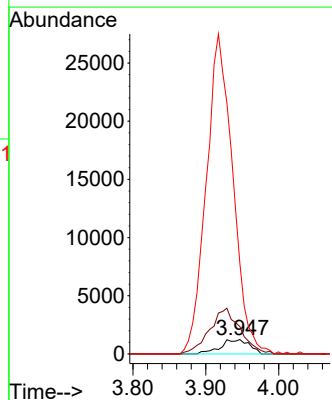
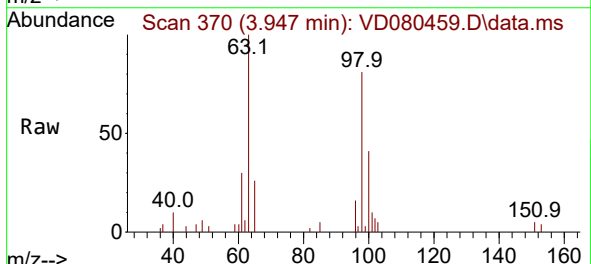
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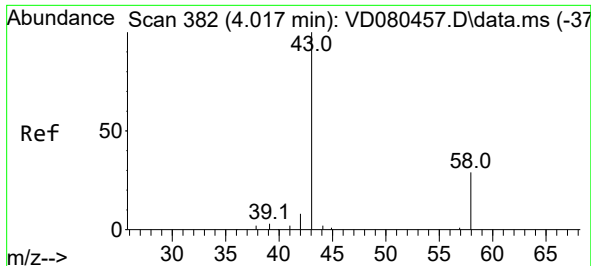
Tgt Ion:101 Resp: 3874
 Ion Ratio Lower Upper
 101 100
 85 14.2 32.0 48.0#
 151 45.1 63.7 95.5#



#12
 1,1-Dichloroethene
 Concen: 1.59 ug/L m
 RT: 3.947 min Scan# 370
 Delta R.T. 0.006 min
 Lab File: VD080459.D
 Acq: 19 Jun 2025 12:56

Tgt Ion: 96 Resp: 3400
 Ion Ratio Lower Upper
 96 100
 61 191.1 103.0 191.4
 63 631.9 66.4 123.2#





#13

Acetone

Concen: 3.58 ug/L

RT: 4.017 min Scan# 382

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

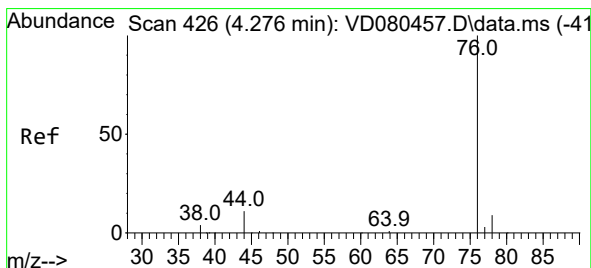
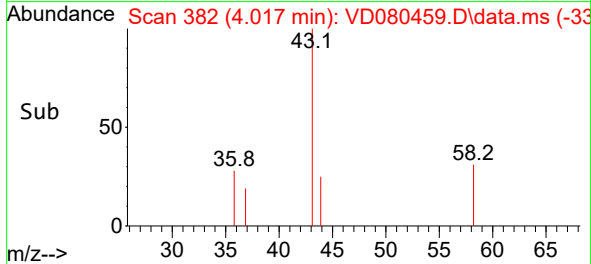
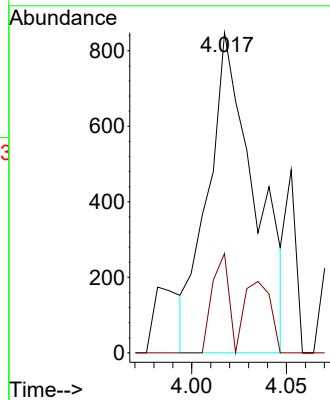
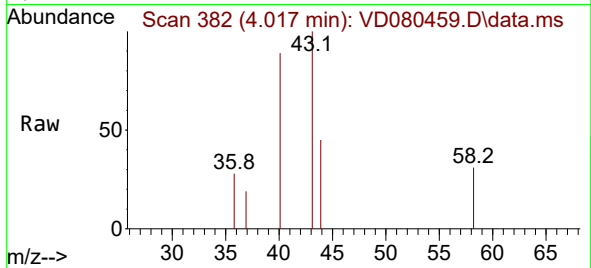
MDL-SOIL-QT2-2025-03

Tgt Ion: 43 Resp: 1462

Ion Ratio Lower Upper

43 100

58 11.0 0.0 71.0



#14

Carbon disulfide

Concen: 1.27 ug/L m

RT: 4.264 min Scan# 424

Delta R.T. -0.012 min

Lab File: VD080459.D

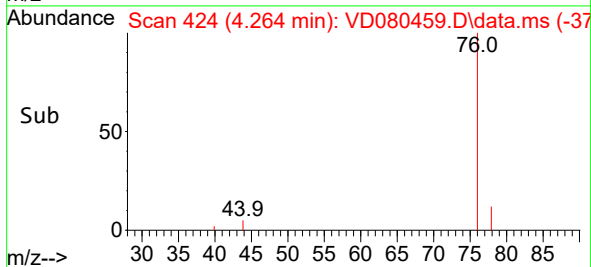
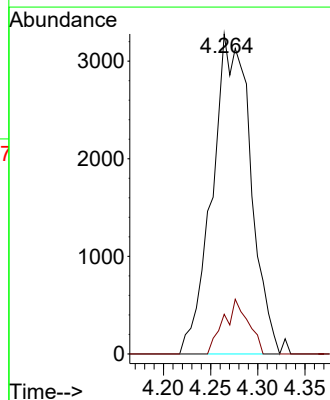
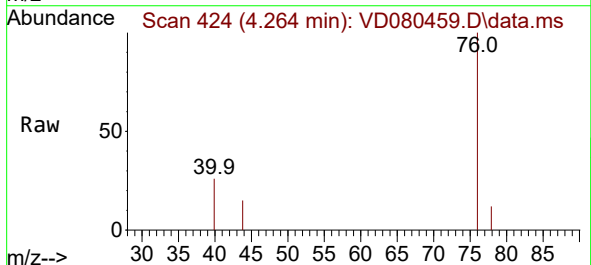
Acq: 19 Jun 2025 12:56

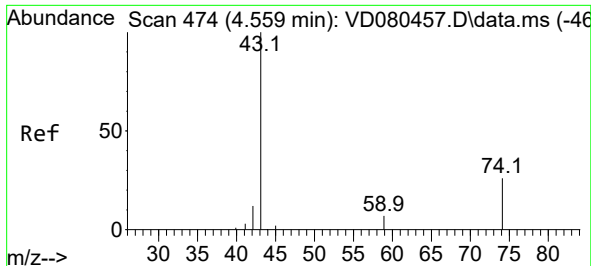
Tgt Ion: 76 Resp: 9253

Ion Ratio Lower Upper

76 100

78 12.4 7.9 11.9#

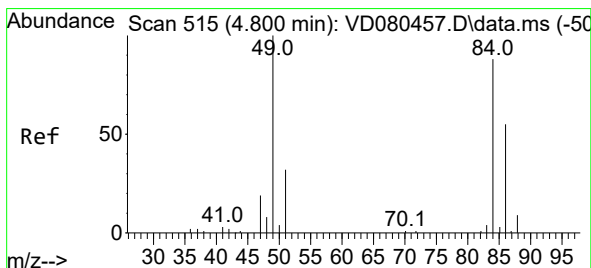
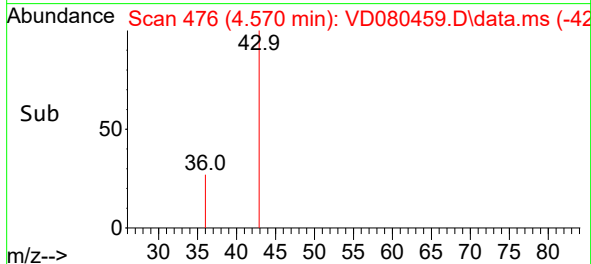
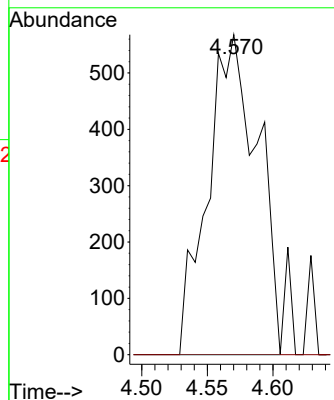
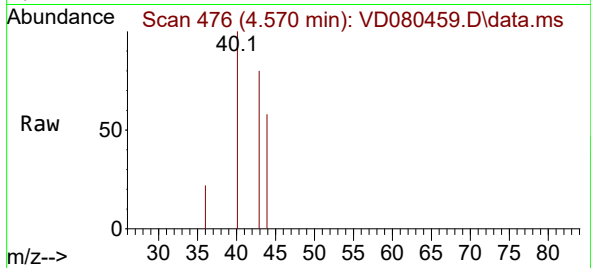




#15
Methyl Acetate
Concen: 1.53 ug/L m
RT: 4.570 min Scan# 41
Delta R.T. 0.012 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

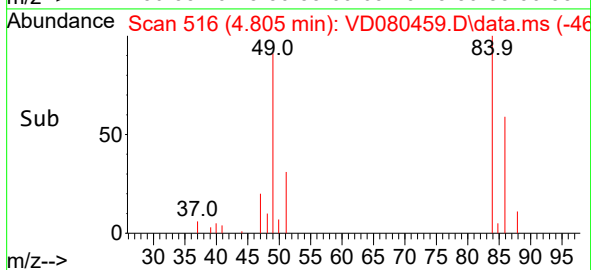
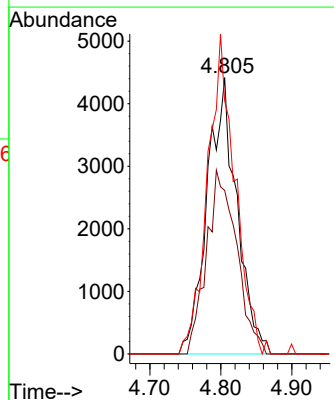
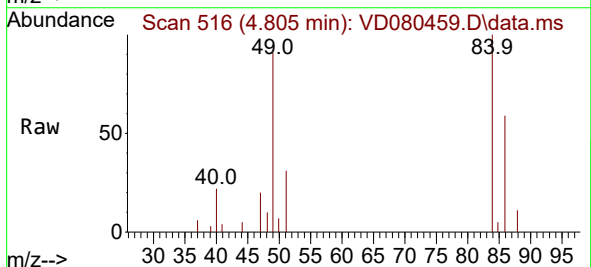
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

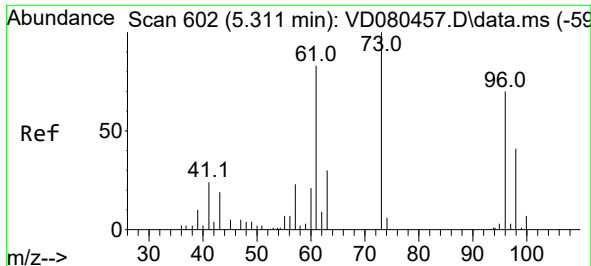
Tgt Ion: 43 Resp: 1510
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#16
Methylene chloride
Concen: 4.83 ug/L m
RT: 4.805 min Scan# 516
Delta R.T. 0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion: 84 Resp: 12769
Ion Ratio Lower Upper
84 100
86 59.2 46.7 86.7
49 91.5 83.0 154.1





#17

trans-1,2-Dichloroethene

Concen: 1.27 ug/L m

RT: 5.311 min Scan# 602

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

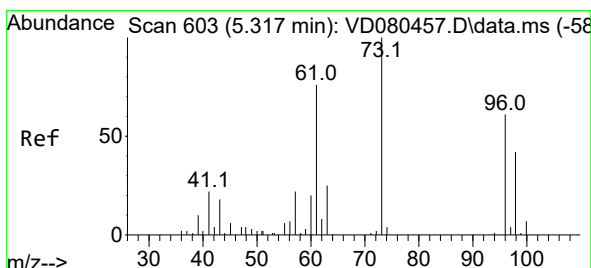
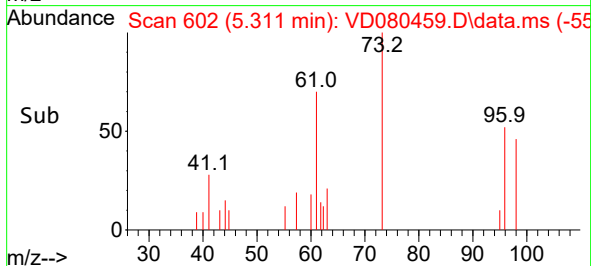
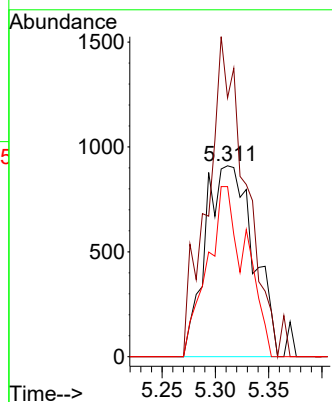
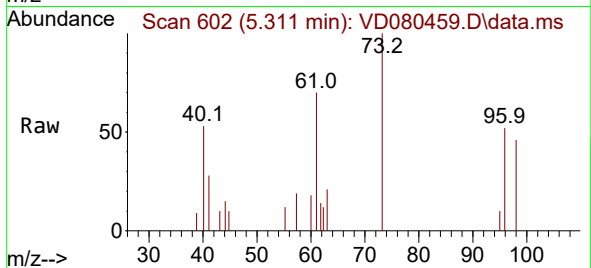
Tgt Ion: 96 Resp: 2849

Ion Ratio Lower Upper

96 100

61 135.6 82.0 152.2

98 89.1 40.3 74.8#



#18

Methyl tert-butyl Ether

Concen: 1.24 ug/L m

RT: 5.311 min Scan# 602

Delta R.T. -0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

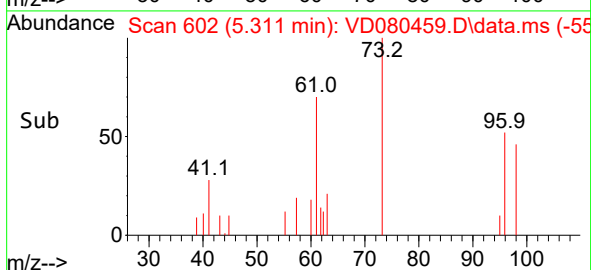
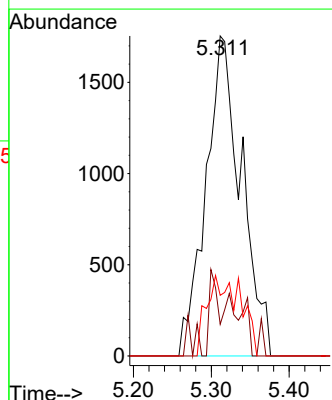
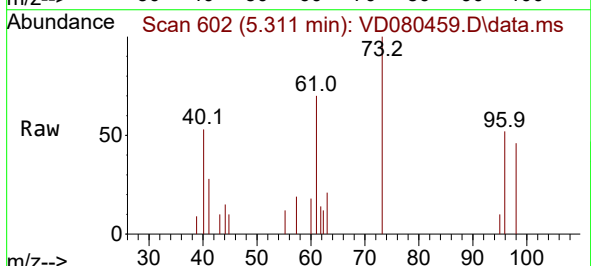
Tgt Ion: 73 Resp: 5570

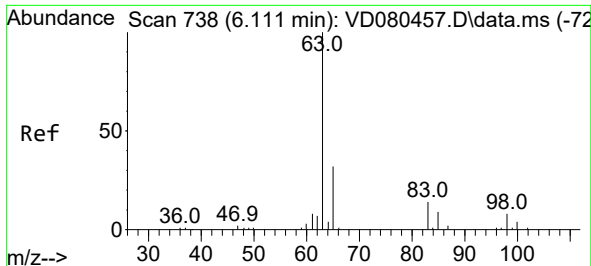
Ion Ratio Lower Upper

73 100

43 6.4 15.8 23.8#

57 5.4 17.6 26.4#





#19

1,1-Dichloroethane

Concen: 1.40 ug/L

RT: 6.117 min Scan# 71

Delta R.T. 0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

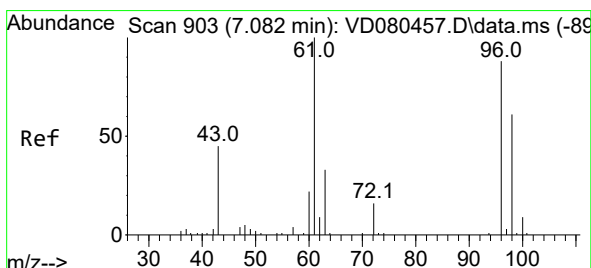
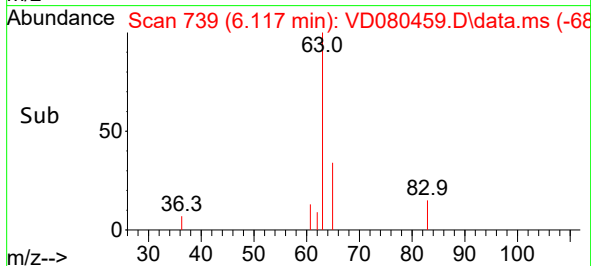
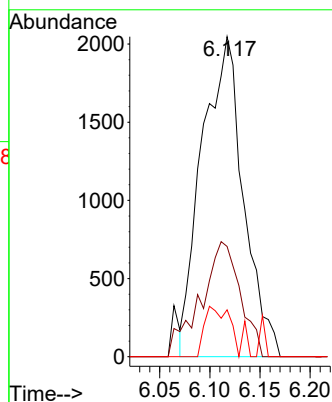
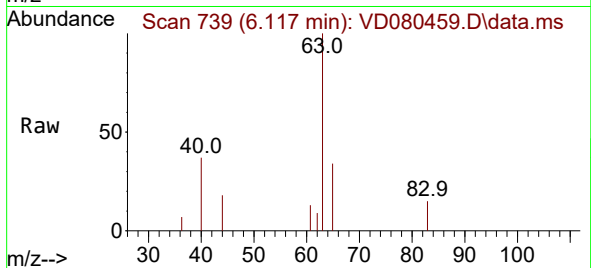
Tgt Ion: 63 Resp: 5899

Ion Ratio Lower Upper

63 100

65 34.4 22.0 41.0

83 14.7 10.8 20.0



#20

cis-1,2-Dichloroethene

Concen: 1.24 ug/L m

RT: 7.088 min Scan# 904

Delta R.T. 0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

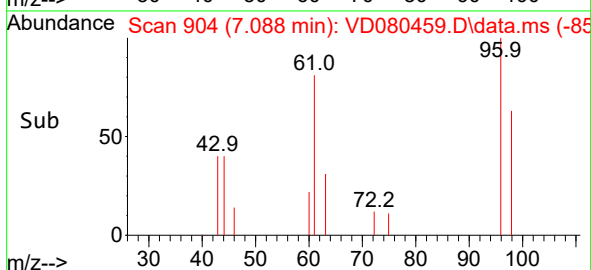
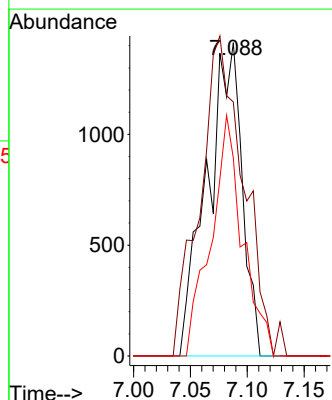
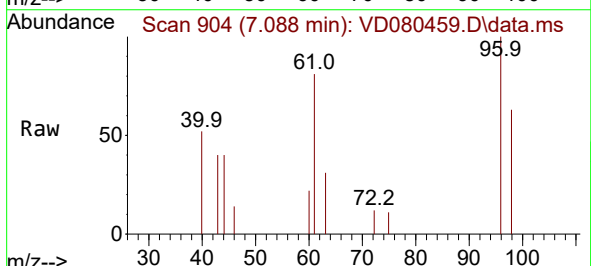
Tgt Ion: 96 Resp: 3031

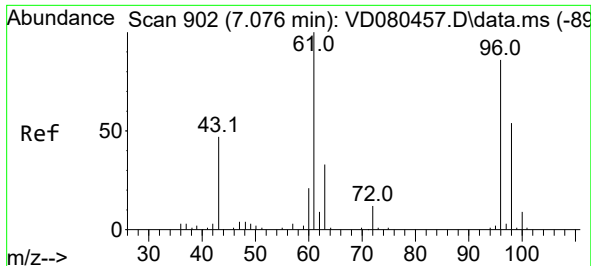
Ion Ratio Lower Upper

96 100

61 81.0 75.8 140.8

98 63.2 45.9 85.3

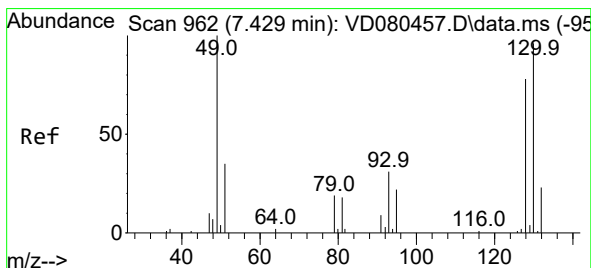
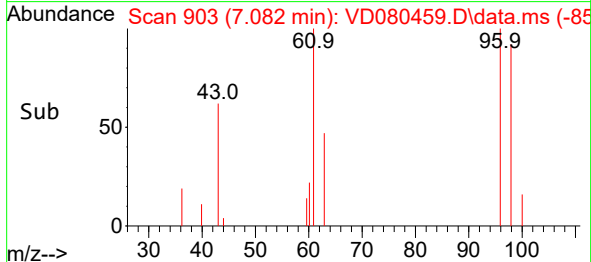
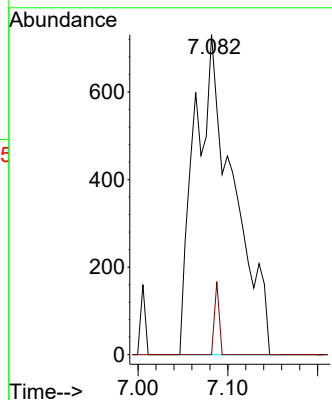
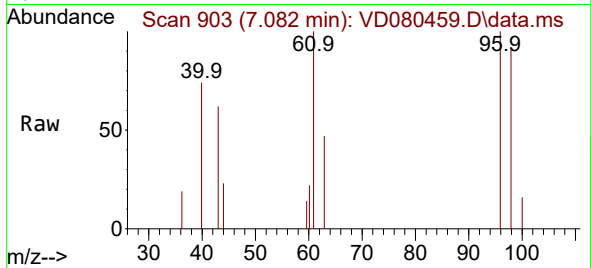




#22
2-Butanone
Concen: 3.68 ug/L m
RT: 7.082 min Scan# 902
Delta R.T. 0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

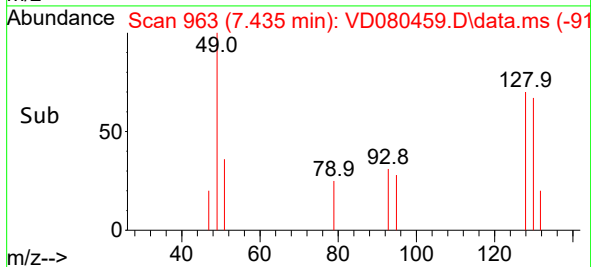
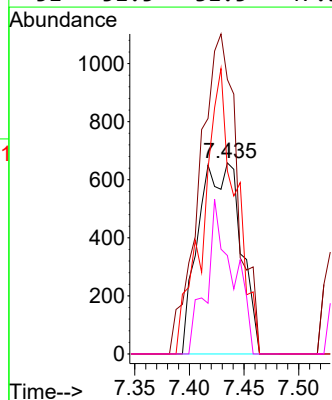
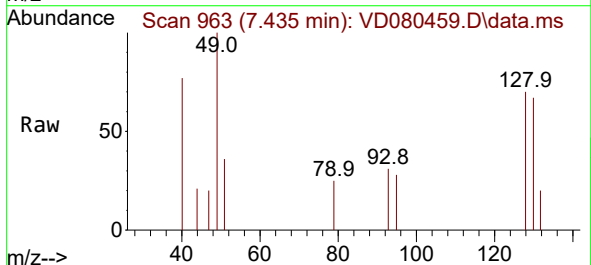
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

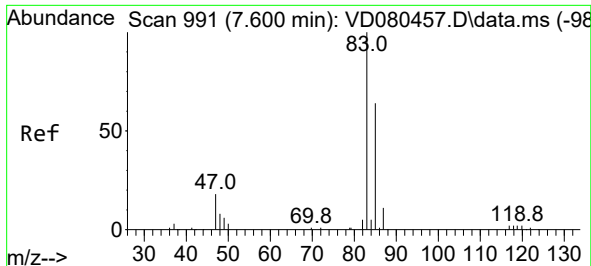
Tgt Ion: 43 Resp: 2186
Ion Ratio Lower Upper
43 100
72 0.0 14.9 44.5#



#23
Bromochloromethane
Concen: 1.35 ug/L m
RT: 7.435 min Scan# 963
Delta R.T. 0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion:128 Resp: 1772
Ion Ratio Lower Upper
128 100
49 143.6 89.5 166.3
130 95.7 82.5 153.1
51 51.5 31.5 47.3#

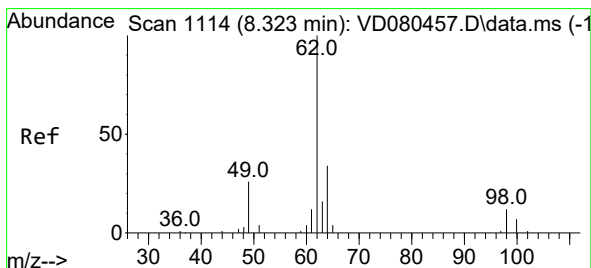
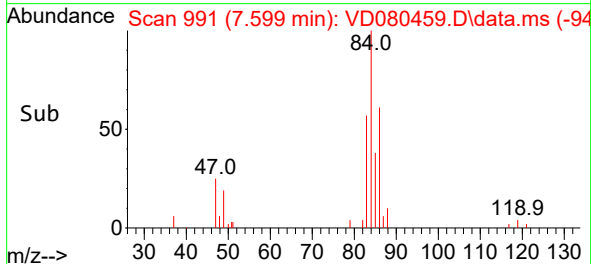
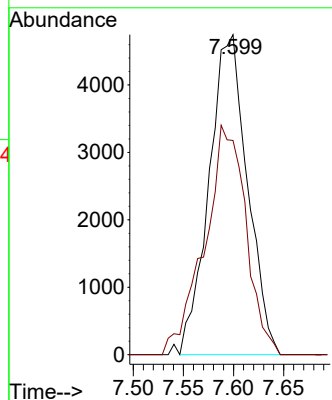
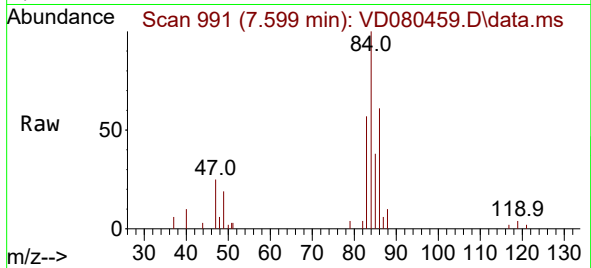




#25
Chloroform
Concen: 2.61 ug/L
RT: 7.599 min Scan# 991
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

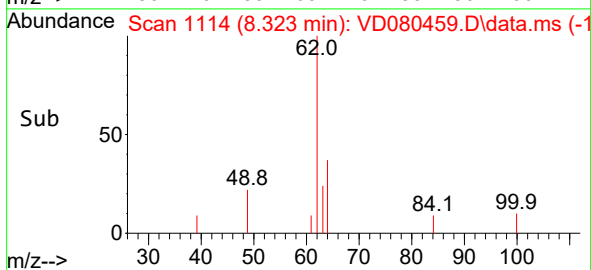
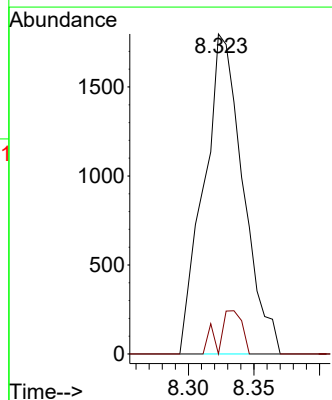
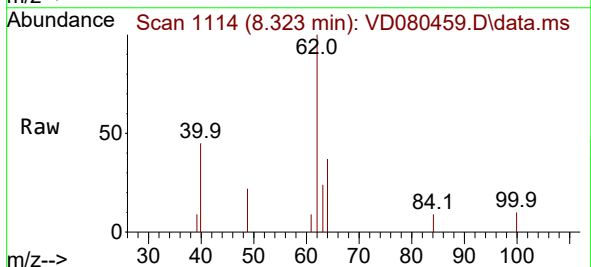
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

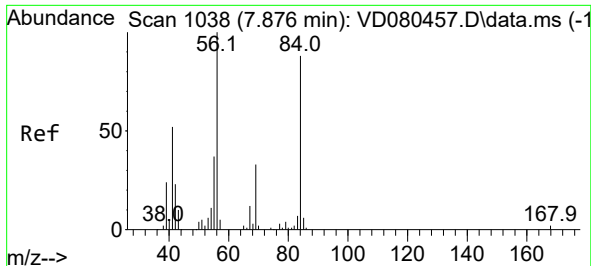
Tgt Ion: 83 Resp: 12642
Ion Ratio Lower Upper
83 100
85 66.9 42.0 78.0



#27
1,2-Dichloroethane
Concen: 1.37 ug/L
RT: 8.323 min Scan# 1114
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion: 62 Resp: 3727
Ion Ratio Lower Upper
62 100
98 0.0 9.4 14.2#





#29

Cyclohexane

Concen: 0.99 ug/L m

RT: 7.888 min Scan# 1040

Delta R.T. 0.012 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

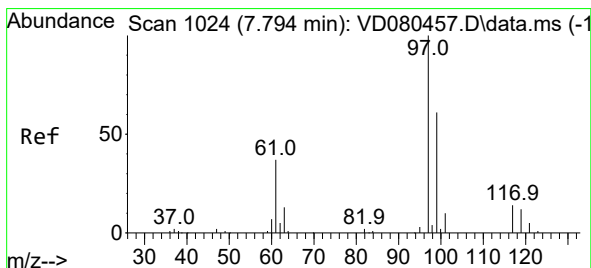
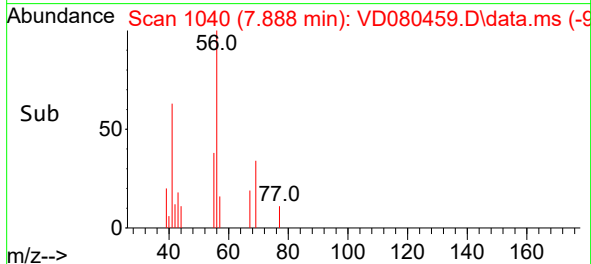
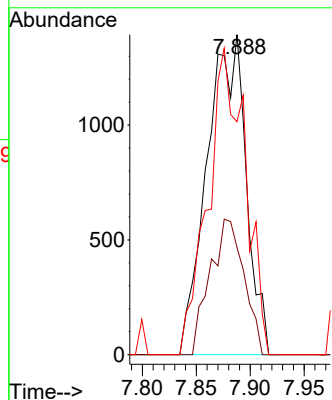
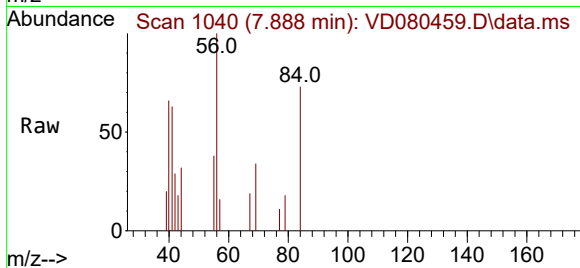
Tgt Ion: 56 Resp: 3514

Ion Ratio Lower Upper

56 100

69 36.7 25.7 38.5

84 28.8 73.4 110.0#



#30

1,1,1-Trichloroethane

Concen: 1.30 ug/L

RT: 7.788 min Scan# 1023

Delta R.T. -0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

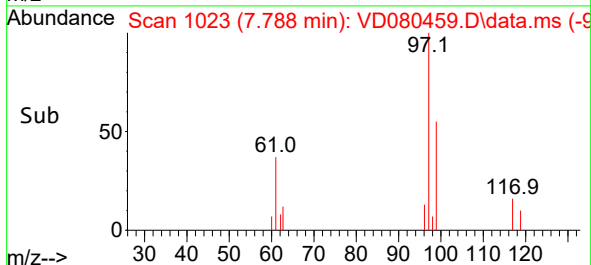
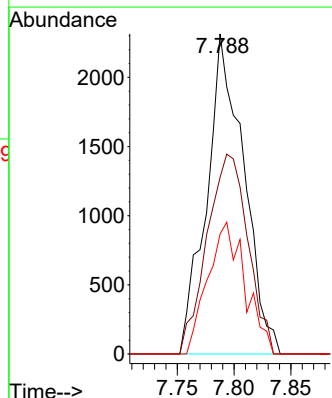
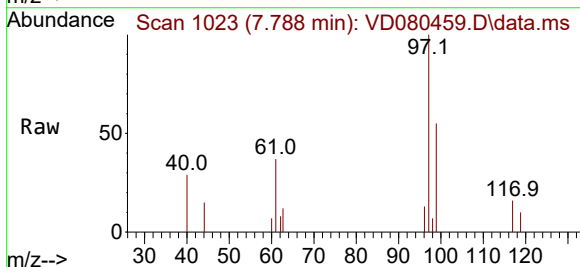
Tgt Ion: 97 Resp: 5243

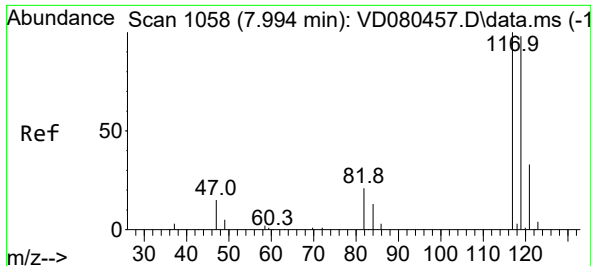
Ion Ratio Lower Upper

97 100

99 69.1 51.1 76.7

61 41.5 32.4 48.6

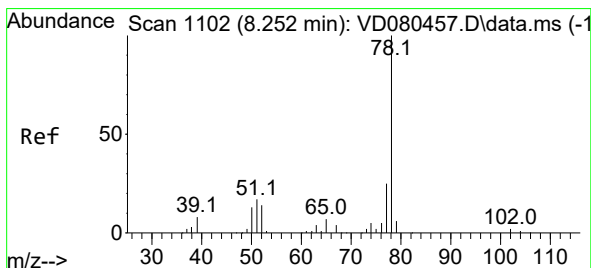
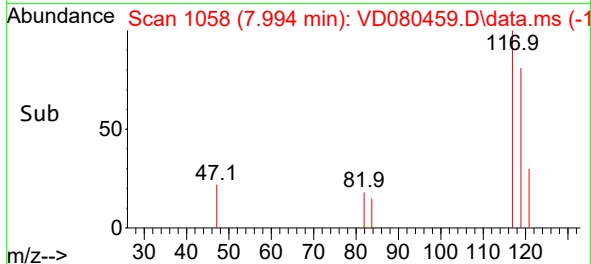
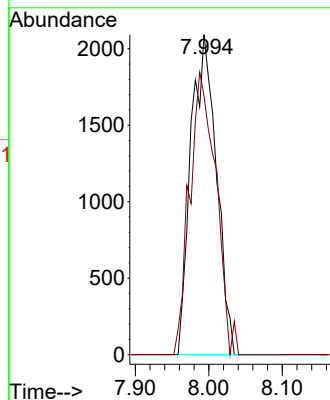
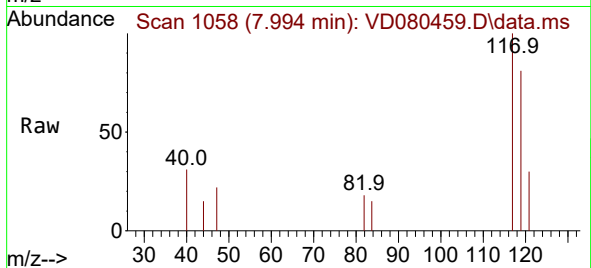




#31
Carbon tetrachloride
Concen: 1.30 ug/L m
RT: 7.994 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

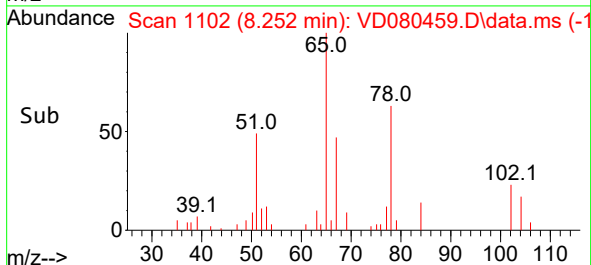
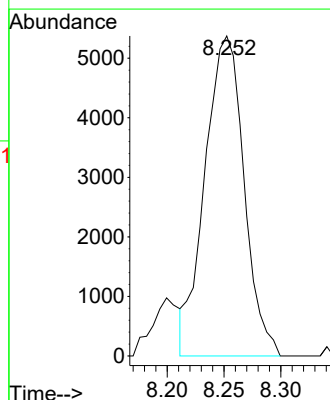
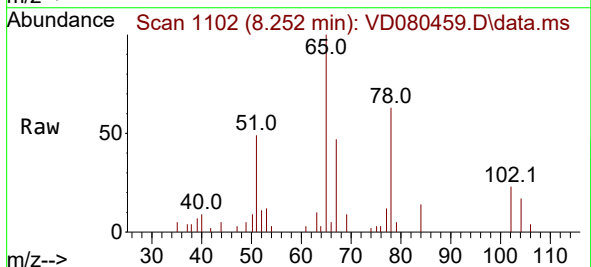
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

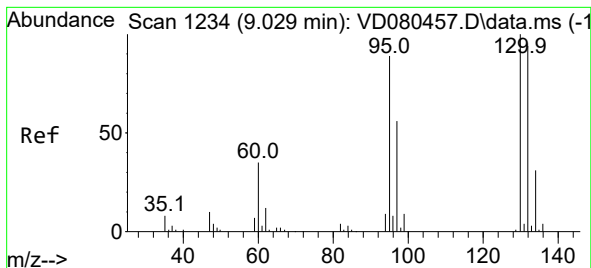
Tgt Ion:117 Resp: 5026
Ion Ratio Lower Upper
117 100
119 89.8 77.2 115.8



#33
Benzene
Concen: 1.37 ug/L
RT: 8.252 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion: 78 Resp: 12861





#34

Trichloroethene

Concen: 1.25 ug/L

RT: 9.029 min Scan# 1234

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

Tgt Ion: 95 Resp: 3387

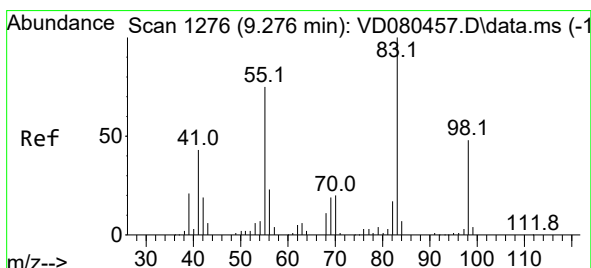
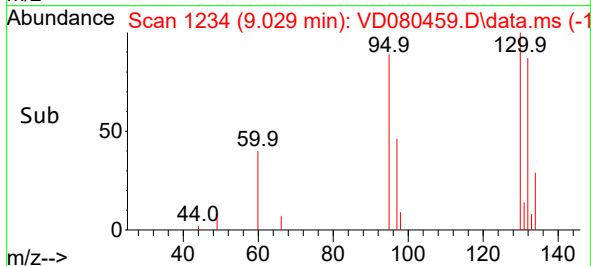
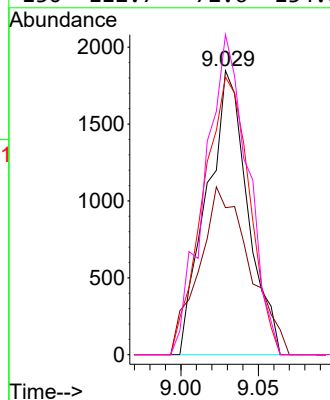
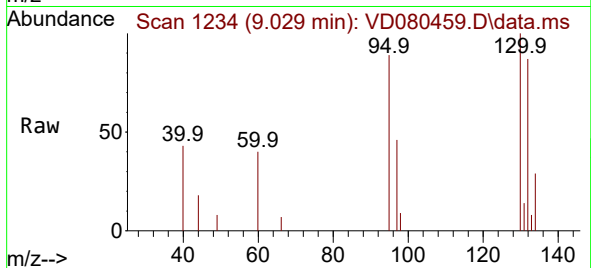
Ion Ratio Lower Upper

95 100

97 51.8 41.5 77.1

132 97.7 69.1 128.3

130 112.7 72.6 134.8



#35

Methylcyclohexane

Concen: 1.01 ug/L

RT: 9.276 min Scan# 1276

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

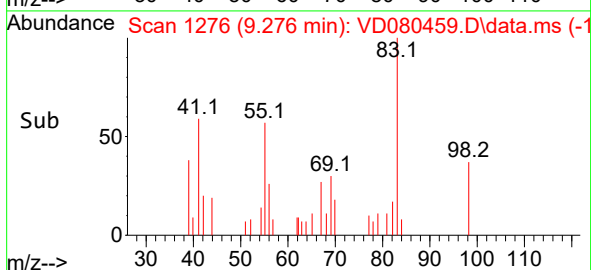
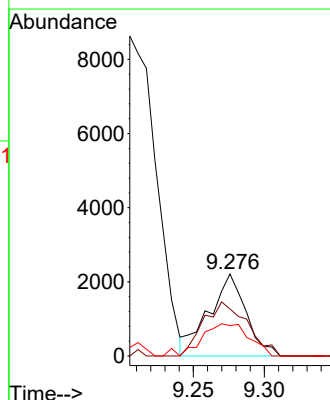
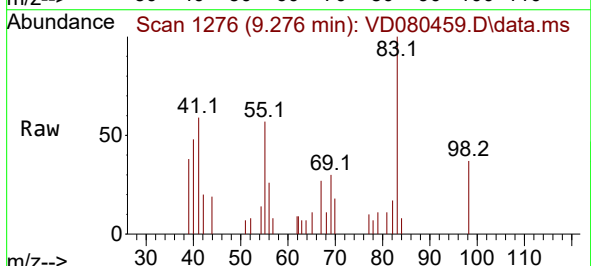
Tgt Ion: 83 Resp: 4025

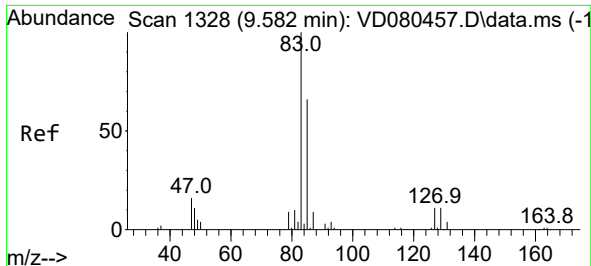
Ion Ratio Lower Upper

83 100

55 78.1 59.7 89.5

98 48.6 38.2 57.2

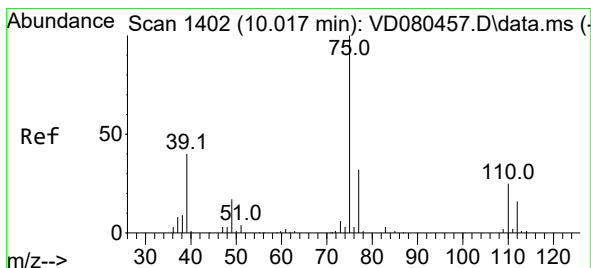
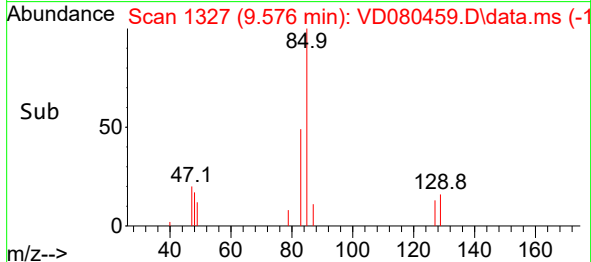
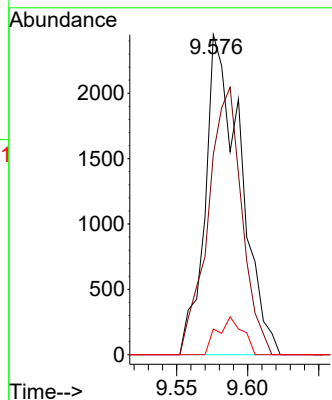
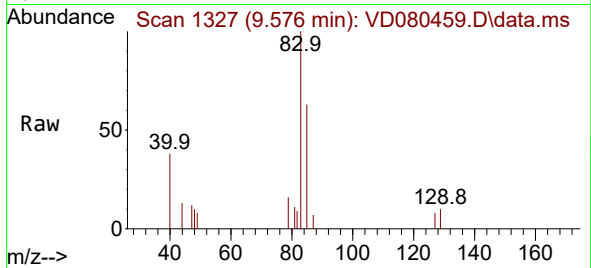




#38
Bromodichloromethane
Concen: 1.23 ug/L
RT: 9.576 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

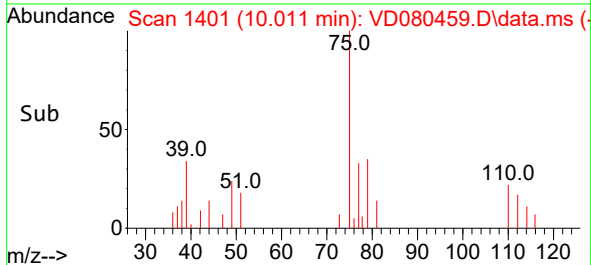
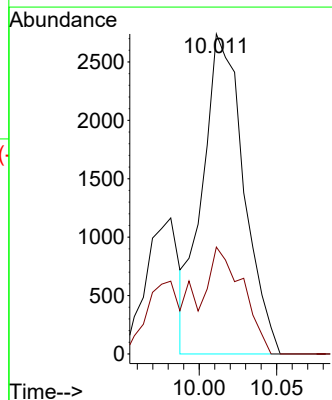
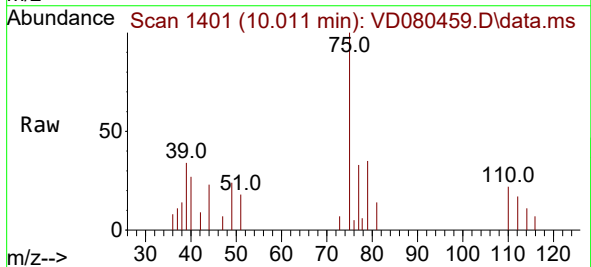
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

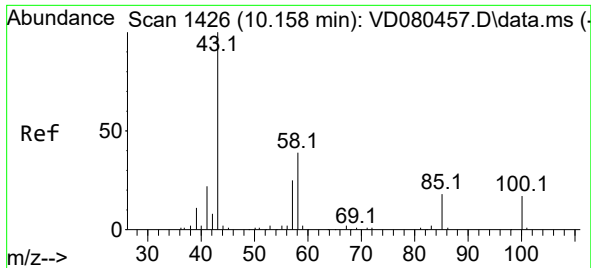
Tgt Ion: 83 Resp: 4241
Ion Ratio Lower Upper
83 100
85 62.6 45.2 84.0
127 8.1 6.2 9.4



#39
cis-1,3-Dichloropropene
Concen: 1.30 ug/L
RT: 10.011 min Scan# 1401
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion: 75 Resp: 5095
Ion Ratio Lower Upper
75 100
77 33.4 24.1 44.7

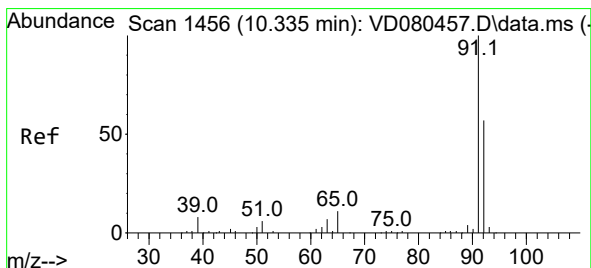
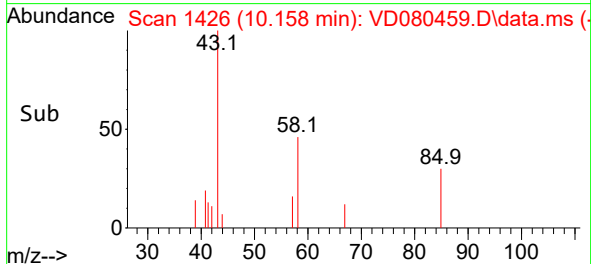
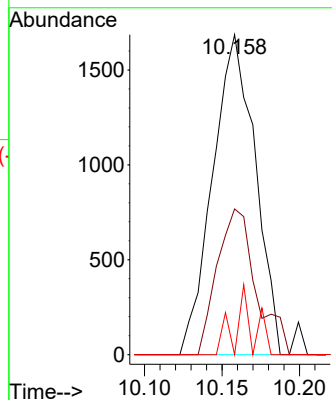
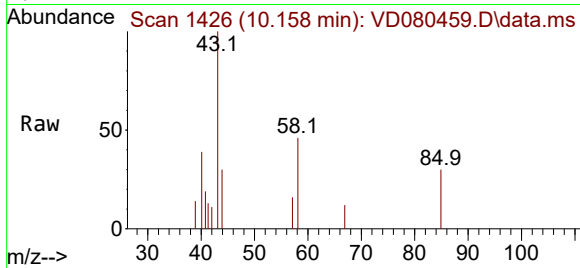




#40
4-Methyl-2-pentanone
Concen: 2.40 ug/L
RT: 10.158 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

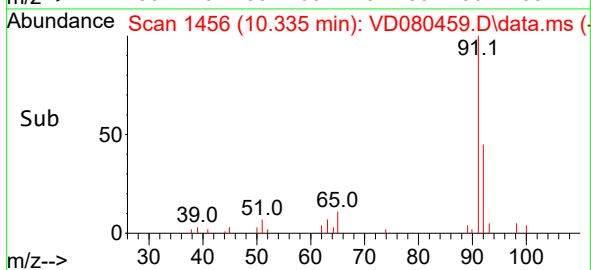
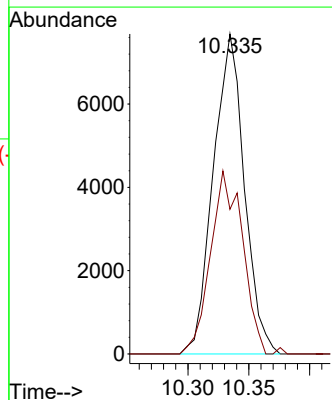
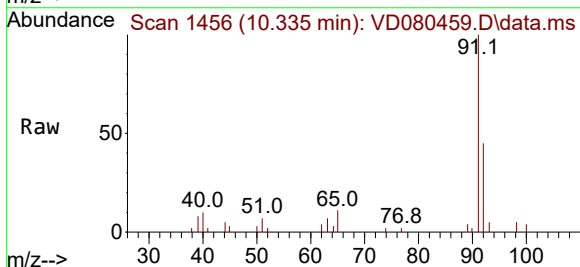
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

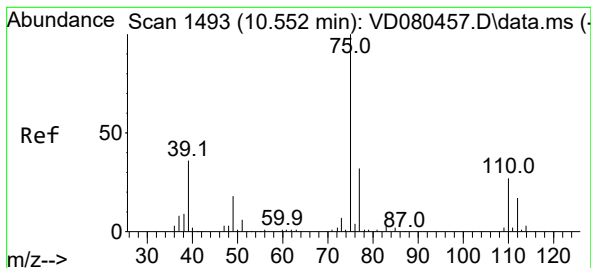
Tgt Ion: 43 Resp: 3216
Ion Ratio Lower Upper
43 100
58 37.1 31.7 47.5
100 4.0 13.4 20.0#



#42
Toluene
Concen: 1.31 ug/L
RT: 10.335 min Scan# 1456
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion: 91 Resp: 13633
Ion Ratio Lower Upper
91 100
92 45.2 42.6 79.0





#44

trans-1,3-Dichloropropene

Concen: 1.77 ug/L

RT: 10.558 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

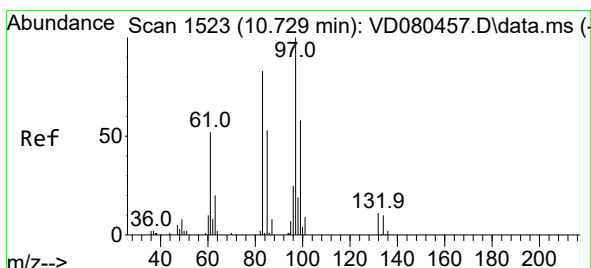
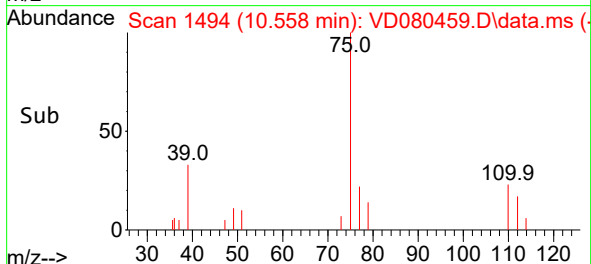
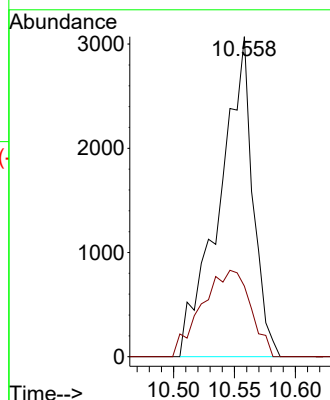
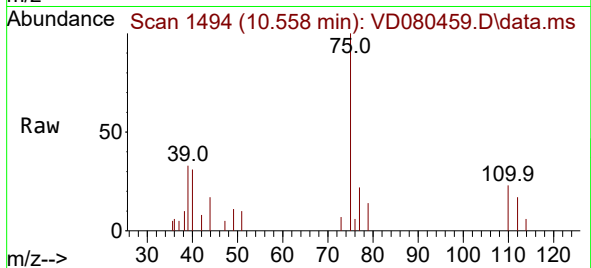
MDL-SOIL-QT2-2025-03

Tgt Ion: 75 Resp: 5885

Ion Ratio Lower Upper

75 100

77 22.0 21.8 40.6



#45

1,1,2-Trichloroethane

Concen: 1.33 ug/L

RT: 10.729 min Scan# 1523

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Tgt Ion: 97 Resp: 2824

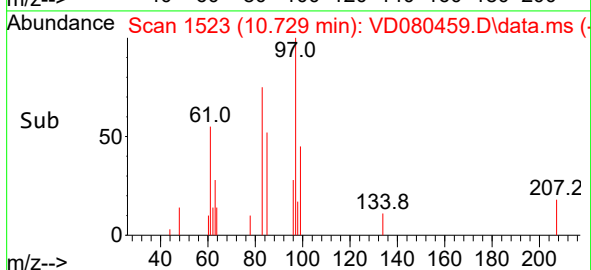
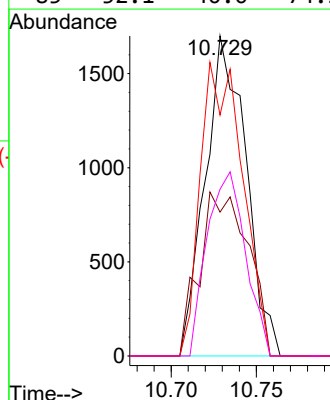
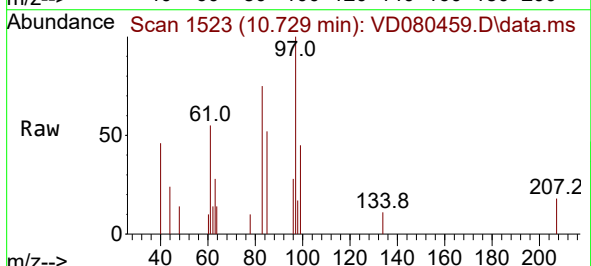
Ion Ratio Lower Upper

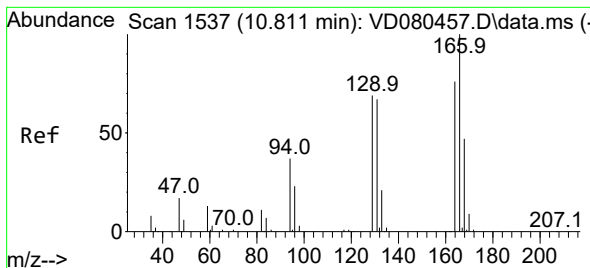
97 100

99 44.9 46.5 86.3#

83 75.3 58.5 108.7

85 52.1 40.0 74.2





#46

Tetrachloroethene

Concen: 1.35 ug/L

RT: 10.811 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VD080459.D

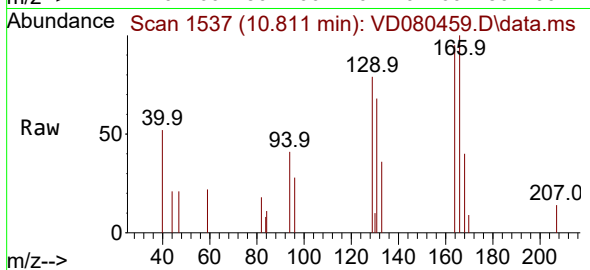
Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03



Tgt Ion:164 Resp: 3267

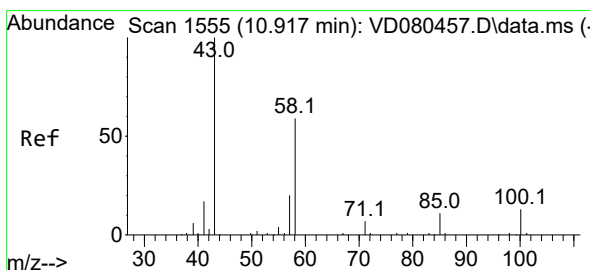
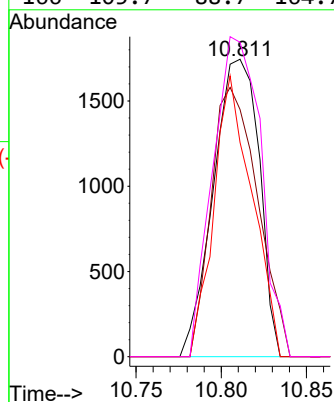
Ion Ratio Lower Upper

164 100

129 83.1 59.7 110.9

131 72.0 58.7 109.1

166 105.7 88.7 164.7



#48

2-Hexanone

Concen: 3.11 ug/L

RT: 10.923 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Tgt Ion: 43 Resp: 3039

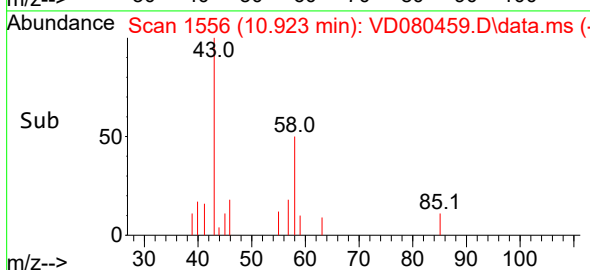
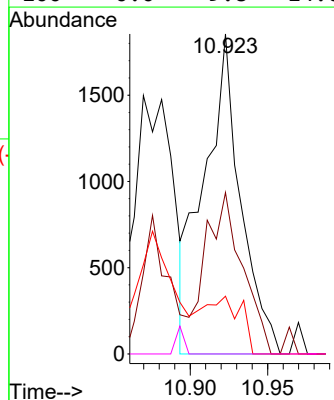
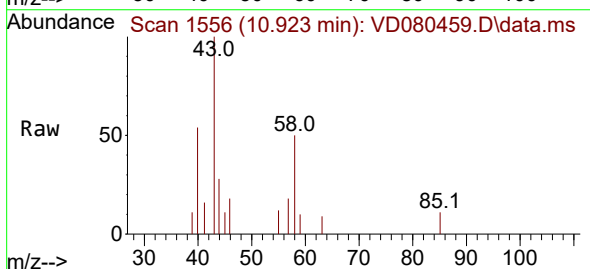
Ion Ratio Lower Upper

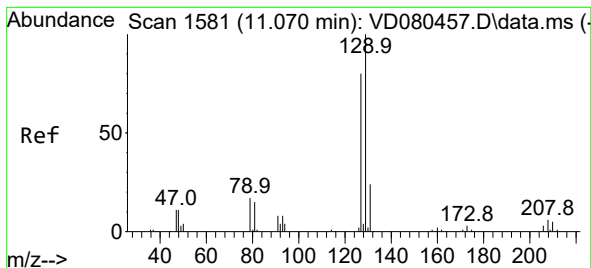
43 100

58 50.0 43.8 65.6

57 6.3 15.6 23.4#

100 0.0 9.8 14.6#





#49

Dibromochloromethane

Concen: 1.37 ug/L

RT: 11.082 min Scan# 1583

Delta R.T. 0.012 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

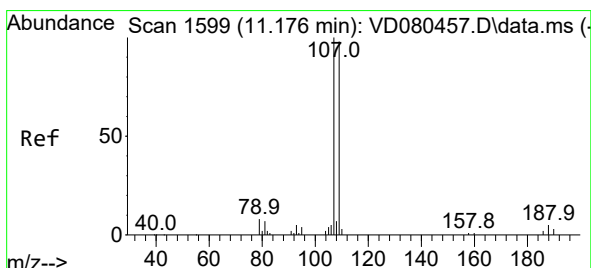
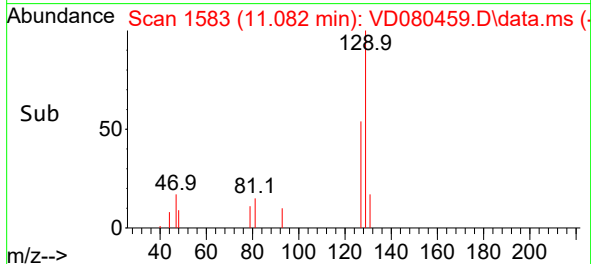
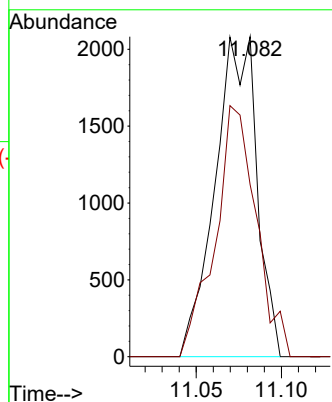
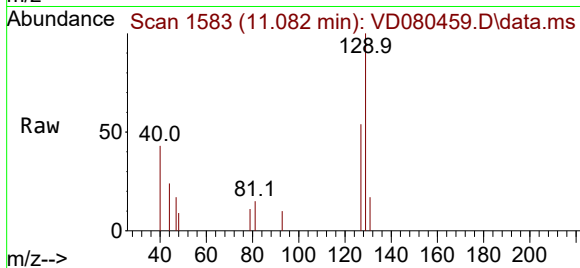
MDL-SOIL-QT2-2025-03

Tgt Ion:129 Resp: 3552

Ion Ratio Lower Upper

129 100

127 53.7 54.1 100.5#



#50

1,2-Dibromoethane

Concen: 1.26 ug/L

RT: 11.176 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

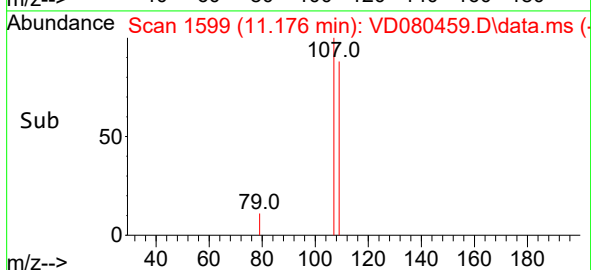
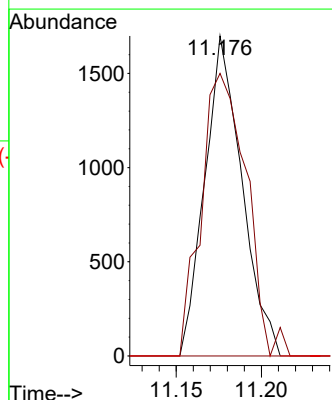
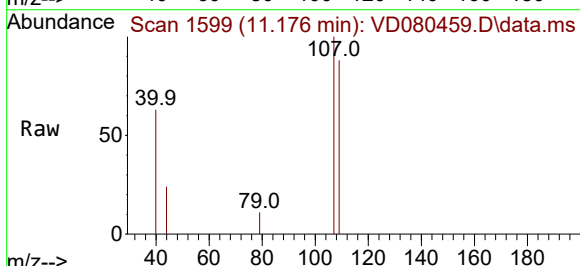
Tgt Ion:107 Resp: 2576

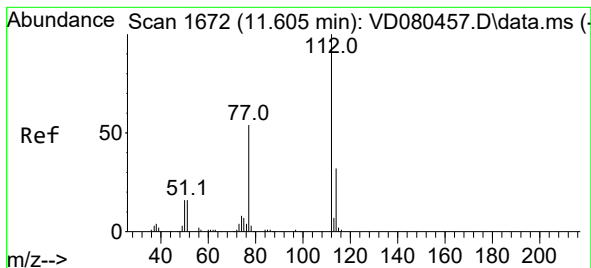
Ion Ratio Lower Upper

107 100

109 88.3 69.8 129.6

188 0.0 2.9 4.3#





#51

Chlorobenzene

Concen: 1.35 ug/L

RT: 11.599 min Scan# 1671

Delta R.T. -0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

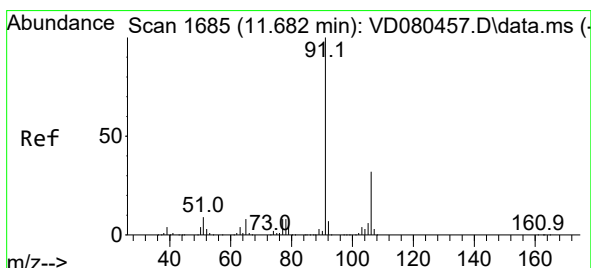
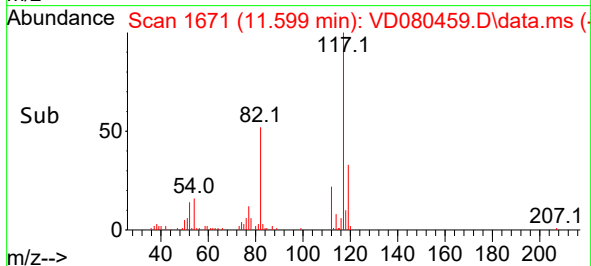
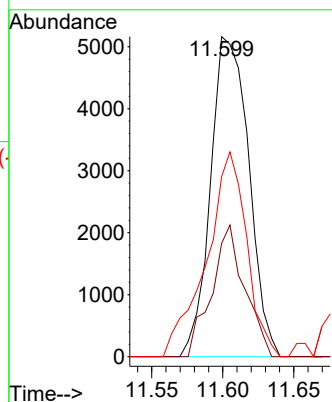
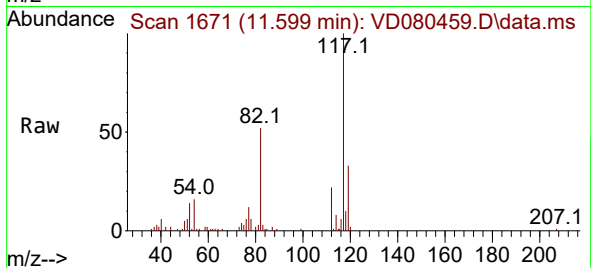
Tgt Ion:112 Resp: 9670

Ion Ratio Lower Upper

112 100

114 35.4 22.3 41.3

77 56.2 44.2 66.4



#52

Ethylbenzene

Concen: 1.23 ug/L

RT: 11.682 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VD080459.D

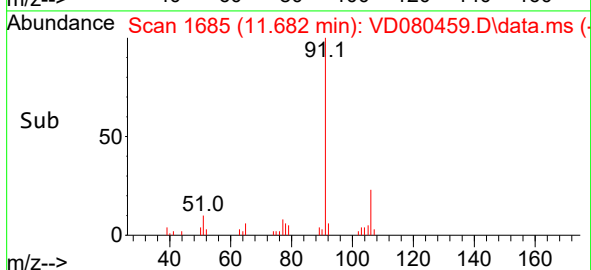
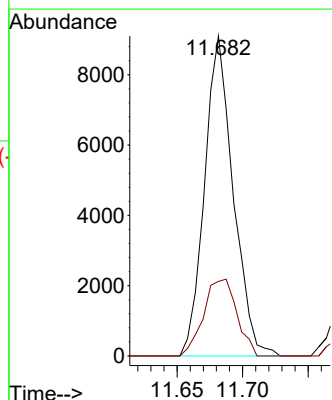
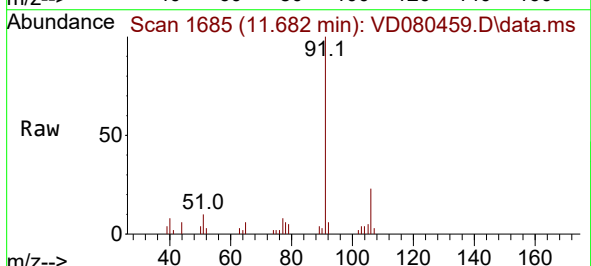
Acq: 19 Jun 2025 12:56

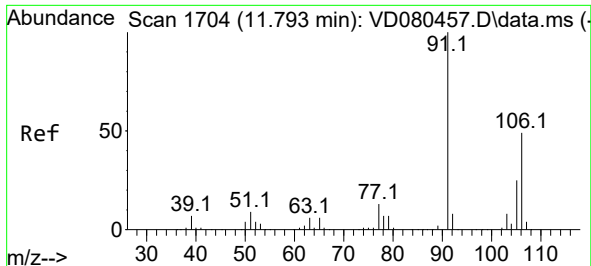
Tgt Ion: 91 Resp: 13833

Ion Ratio Lower Upper

91 100

106 23.3 22.1 41.1

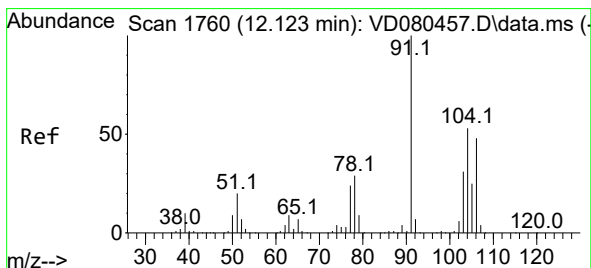
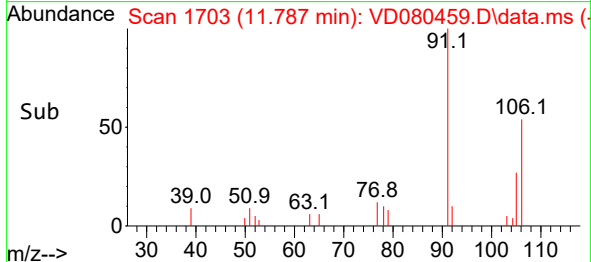
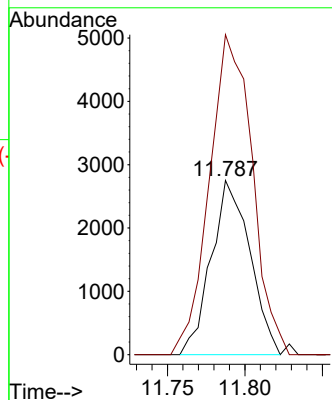
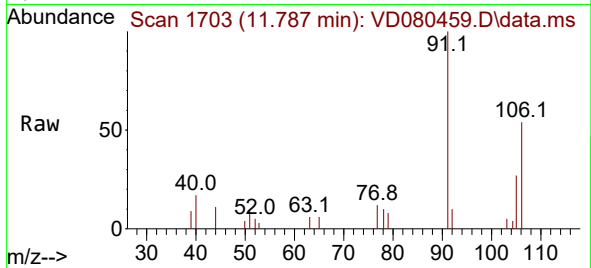




#53
m,p-Xylene
Concen: 1.08 ug/L
RT: 11.787 min Scan# 1759
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

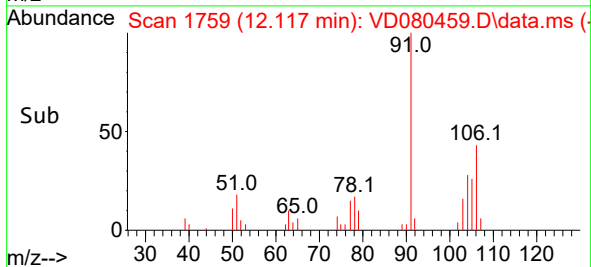
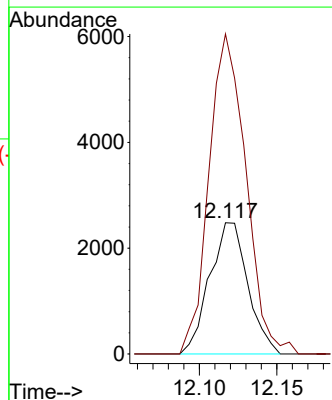
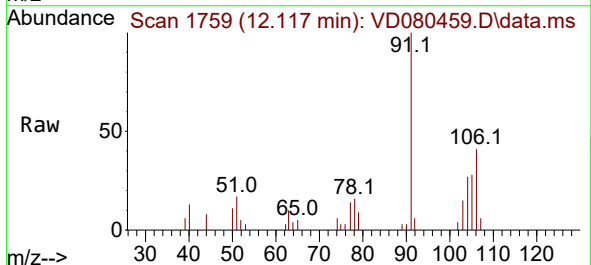
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

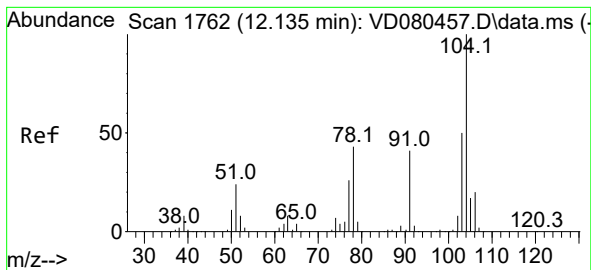
Tgt Ion:106 Resp: 4790
Ion Ratio Lower Upper
106 100
91 183.7 134.1 249.1



#54
o-Xylene
Concen: 1.02 ug/L
RT: 12.117 min Scan# 1759
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion:106 Resp: 4245
Ion Ratio Lower Upper
106 100
91 243.9 148.3 275.3





#55

Styrene

Concen: 1.00 ug/L

RT: 12.129 min Scan# 1761

Delta R.T. -0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

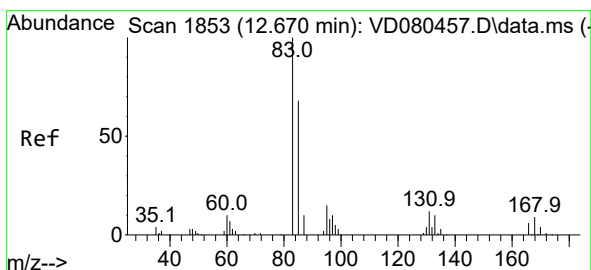
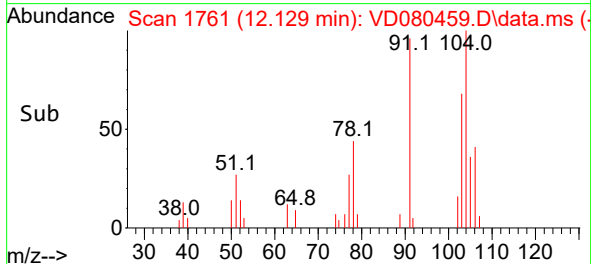
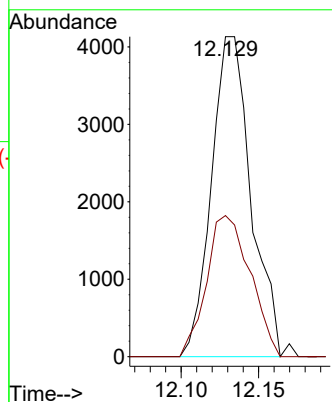
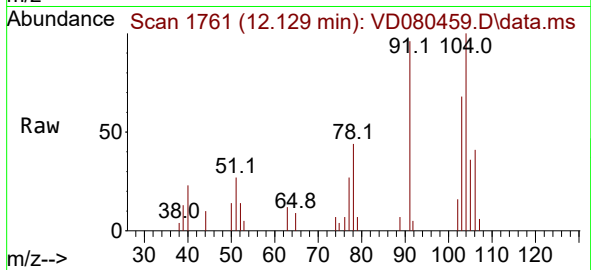
MDL-SOIL-QT2-2025-03

Tgt Ion:104 Resp: 7342

Ion Ratio Lower Upper

104 100

78 44.1 30.0 55.8



#57

1,1,2,2-Tetrachloroethane

Concen: 1.49 ug/L

RT: 12.670 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

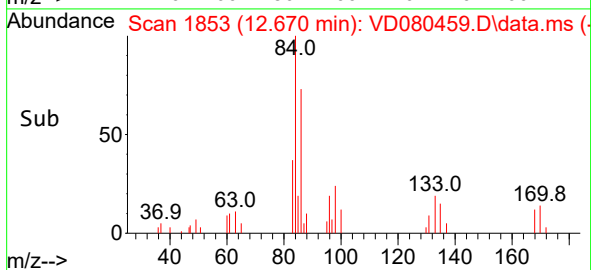
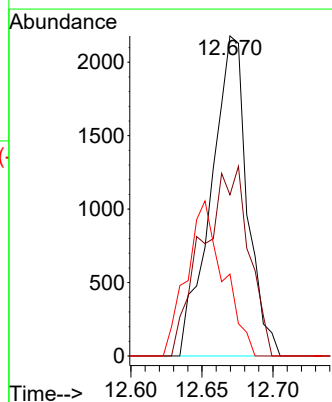
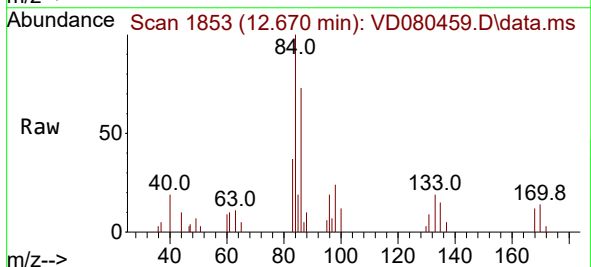
Tgt Ion: 83 Resp: 3866

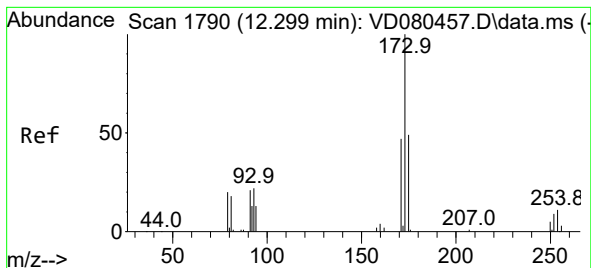
Ion Ratio Lower Upper

83 100

85 50.3 42.8 79.6

131 25.6 7.8 11.8#





#59

Bromoform

Concen: 1.46 ug/L

RT: 12.293 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

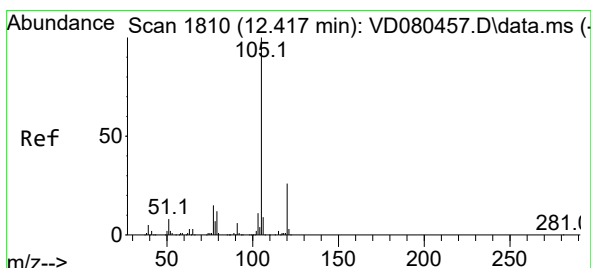
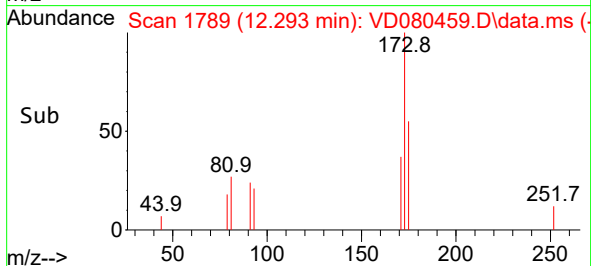
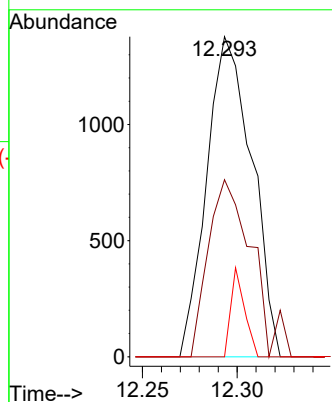
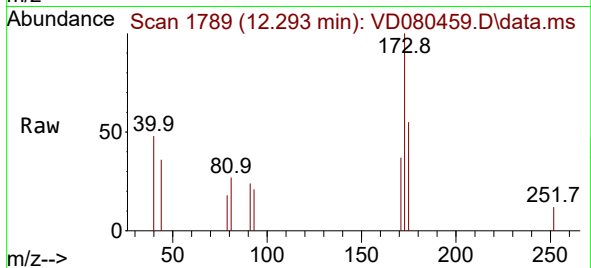
Tgt Ion:173 Resp: 2282

Ion Ratio Lower Upper

173 100

175 50.7 38.2 57.4

254 8.4 9.0 13.4#



#60

Isopropylbenzene

Concen: 1.23 ug/L

RT: 12.423 min Scan# 1811

Delta R.T. 0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

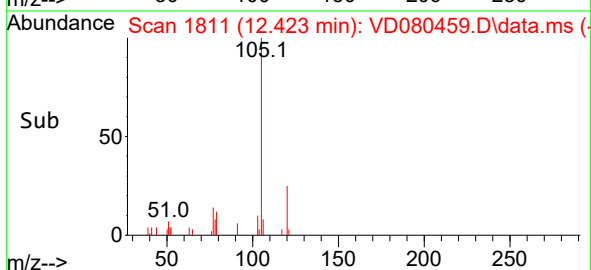
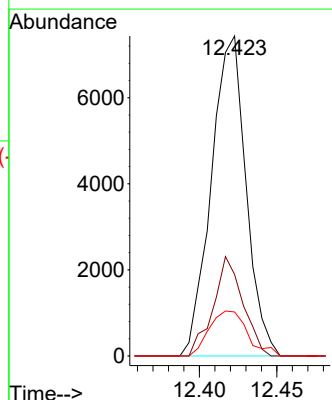
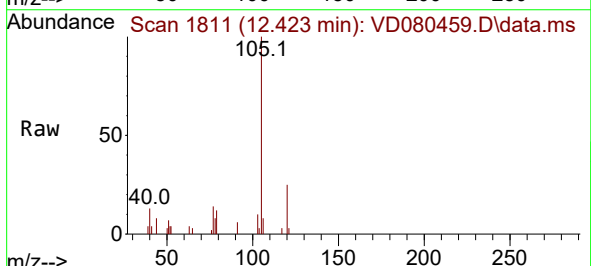
Tgt Ion:105 Resp: 11591

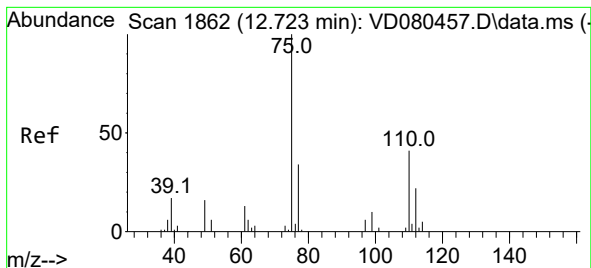
Ion Ratio Lower Upper

105 100

120 26.5 22.1 33.1

77 14.8 12.1 18.1





#61

1,2,3-Trichloropropane

Concen: 1.44 ug/L

RT: 12.723 min Scan# 1862

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

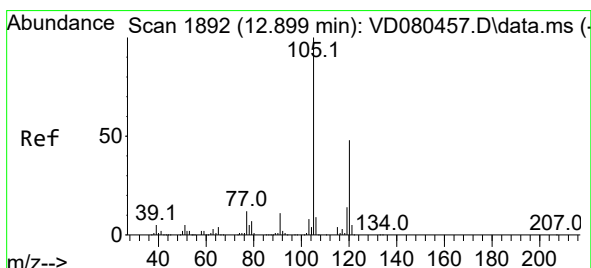
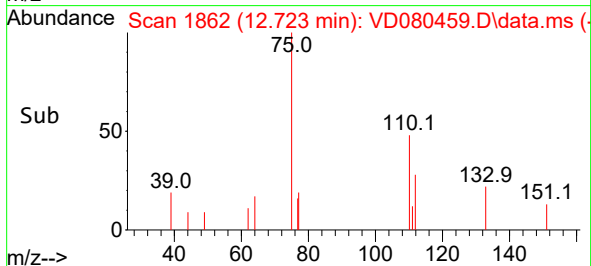
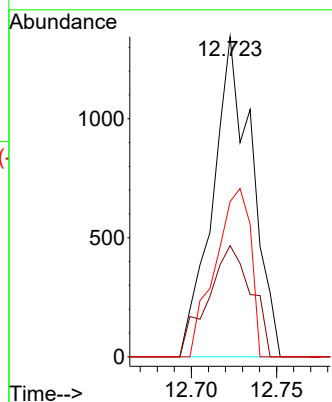
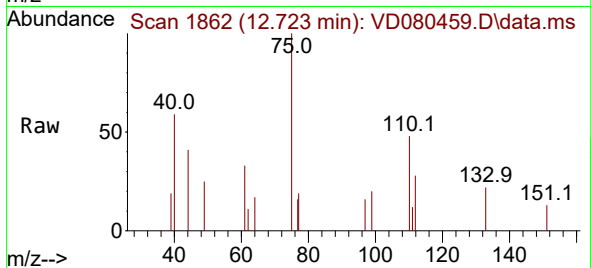
Tgt Ion: 75 Resp: 2149

Ion Ratio Lower Upper

75 100

77 38.5 26.8 40.2

110 47.7 33.0 49.4



#62

1,3,5-Trimethylbenzene

Concen: 1.26 ug/L

RT: 12.905 min Scan# 1893

Delta R.T. 0.006 min

Lab File: VD080459.D

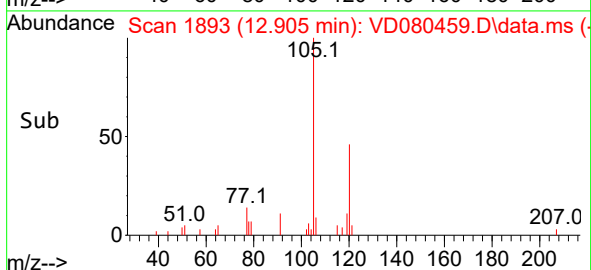
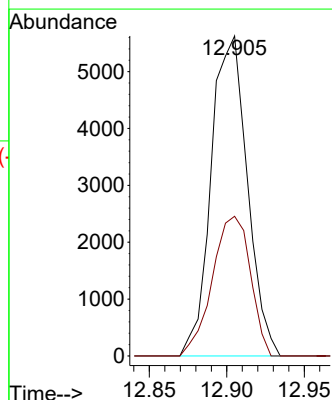
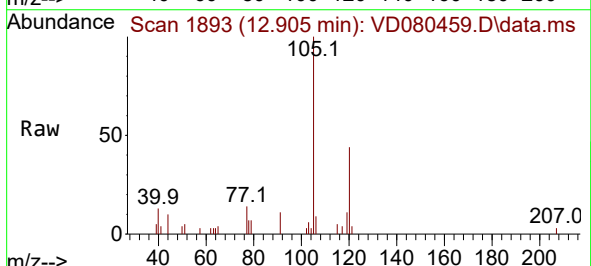
Acq: 19 Jun 2025 12:56

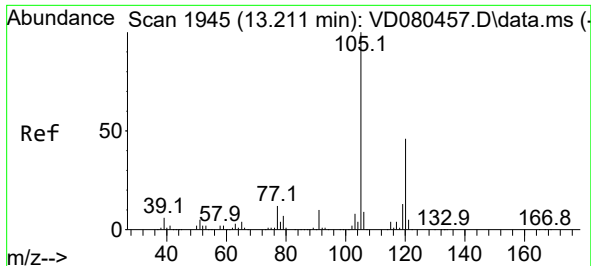
Tgt Ion: 105 Resp: 9127

Ion Ratio Lower Upper

105 100

120 45.9 40.1 60.1

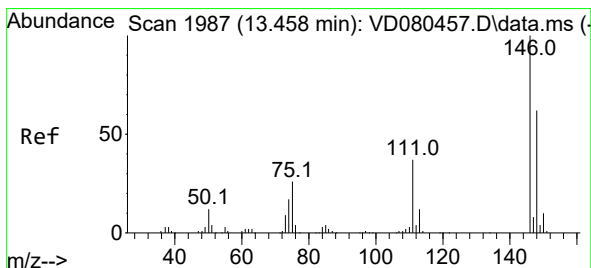
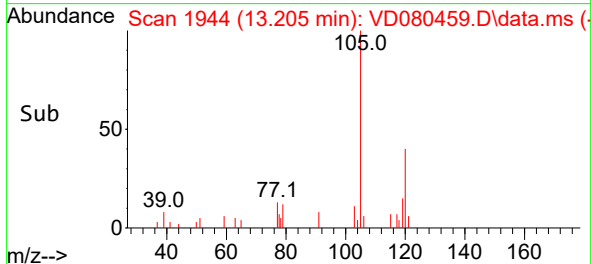
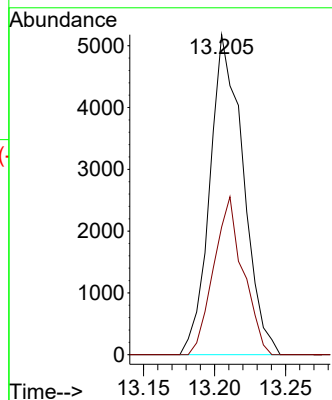
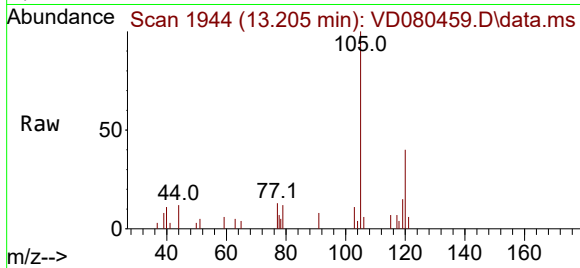




#63
1,2,4-Trimethylbenzene
Concen: 1.18 ug/L
RT: 13.205 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

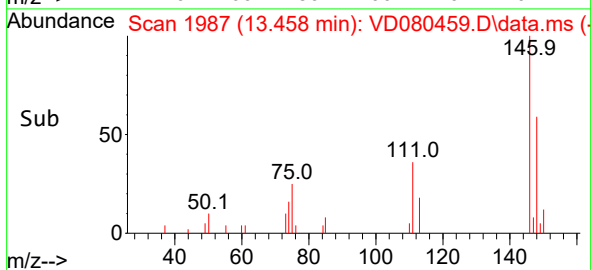
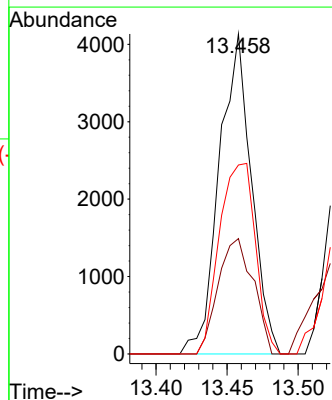
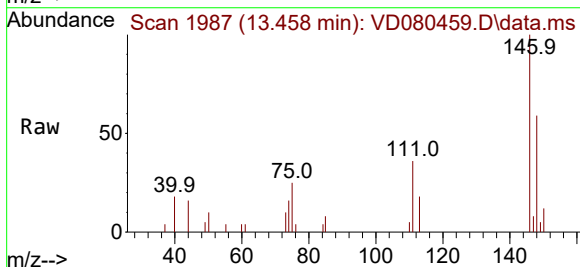
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

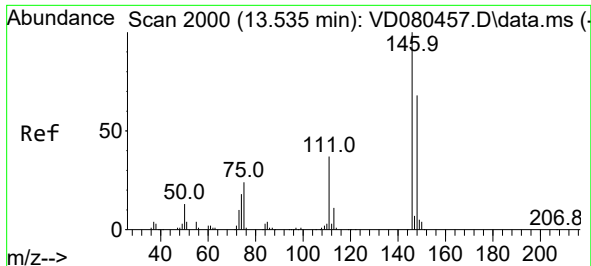
Tgt Ion:105 Resp: 8447
Ion Ratio Lower Upper
105 100
120 43.7 37.5 56.3



#64
1,3-Dichlorobenzene
Concen: 1.32 ug/L
RT: 13.458 min Scan# 1987
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion:146 Resp: 6507
Ion Ratio Lower Upper
146 100
111 36.0 25.4 47.2
148 59.1 42.8 79.6

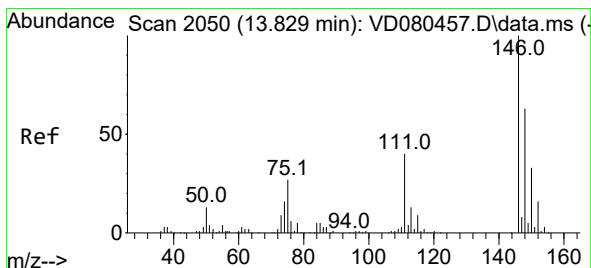
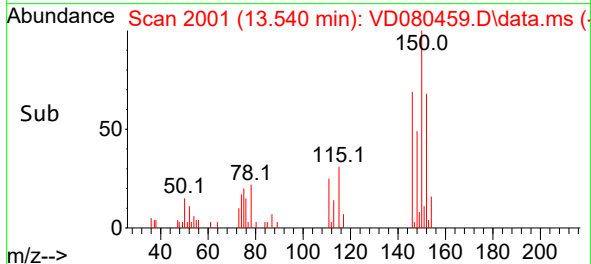
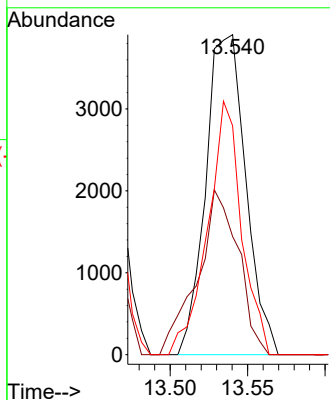
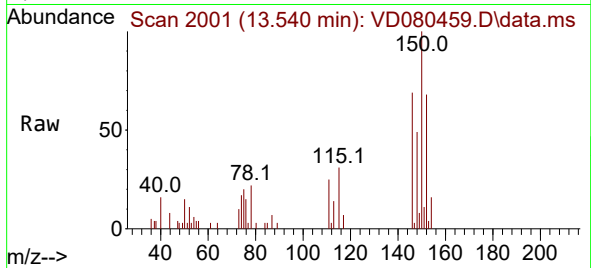




#65
1,4-Dichlorobenzene
Concen: 1.37 ug/L
RT: 13.540 min Scan# 2000
Delta R.T. 0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

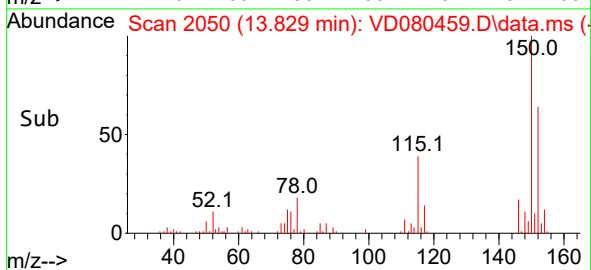
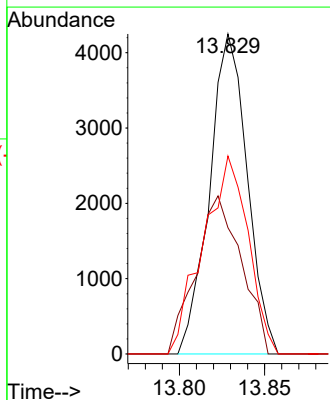
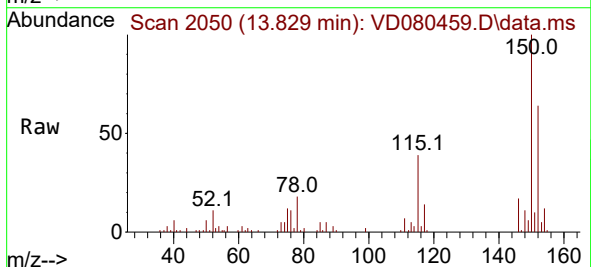
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

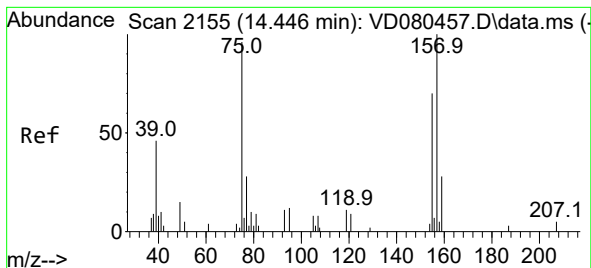
Tgt Ion:146 Resp: 7018
Ion Ratio Lower Upper
146 100
111 37.0 24.5 45.5
148 71.5 44.6 82.8



#67
1,2-Dichlorobenzene
Concen: 1.47 ug/L
RT: 13.829 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion:146 Resp: 6540
Ion Ratio Lower Upper
146 100
111 39.5 32.0 48.0
148 61.8 49.7 74.5





#68

1,2-Dibromo-3-chloropropane

Concen: 1.13 ug/L m

RT: 14.452 min Scan# 2155

Delta R.T. 0.006 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03

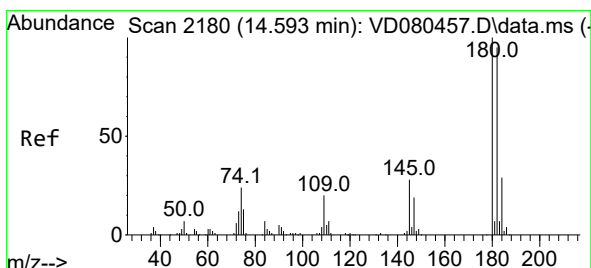
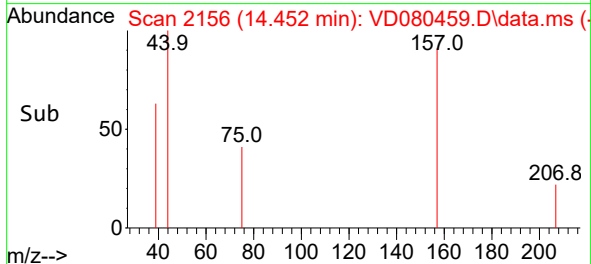
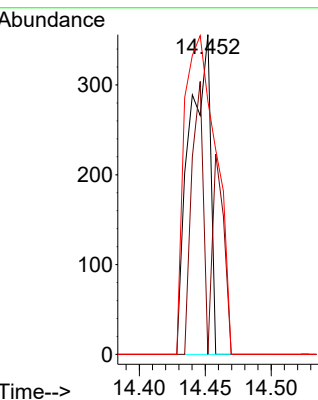
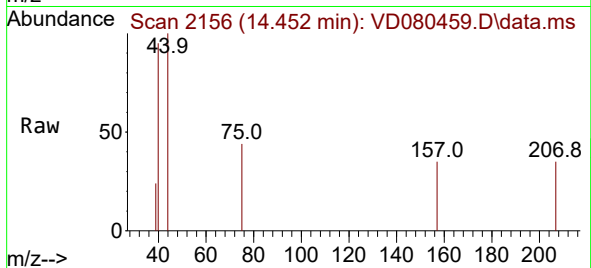
Tgt Ion: 75 Resp: 393

Ion Ratio Lower Upper

75 100

155 0.0 86.2 129.2#

157 79.2 94.0 141.0#



#69

1,3,5-Trichlorobenzene

Concen: 1.44 ug/L

RT: 14.593 min Scan# 2180

Delta R.T. -0.000 min

Lab File: VD080459.D

Acq: 19 Jun 2025 12:56

Tgt Ion:180 Resp: 4904

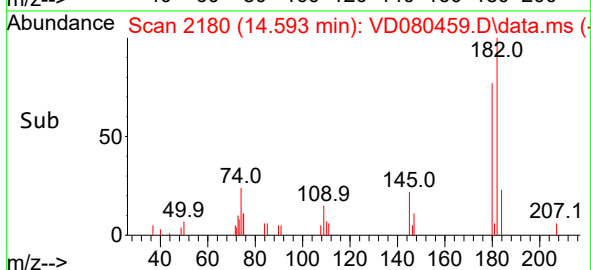
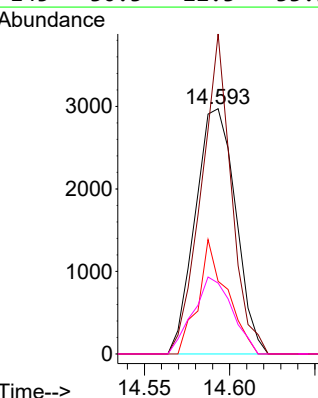
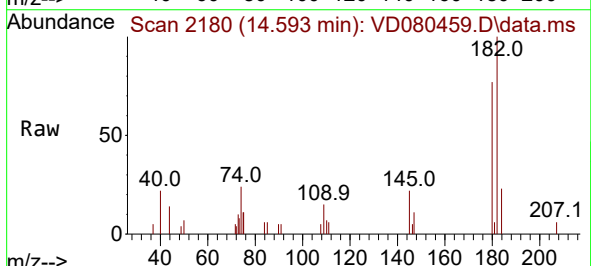
Ion Ratio Lower Upper

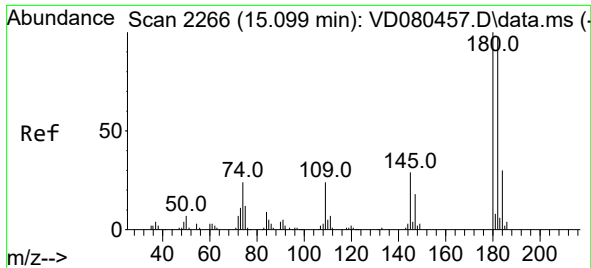
180 100

182 96.9 77.0 115.4

184 33.0 24.9 37.3

145 30.3 22.3 33.5

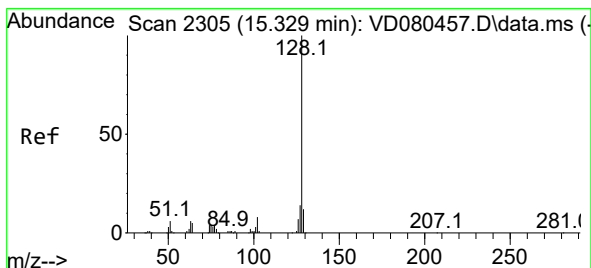
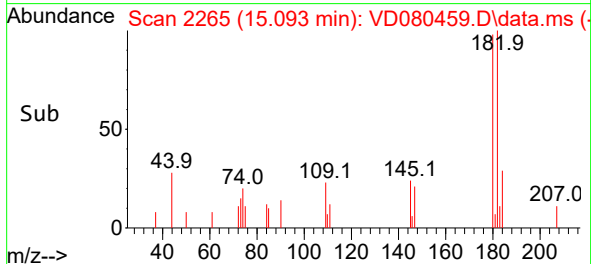
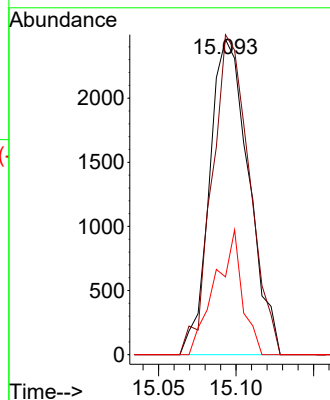
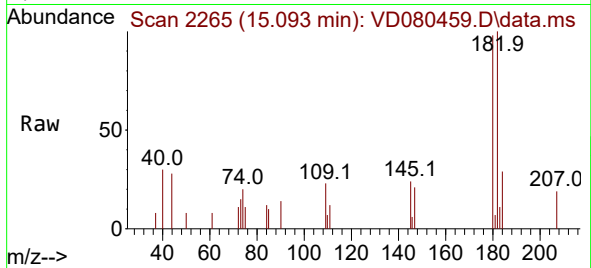




#70
1,2,4-trichlorobenzene
Concen: 1.55 ug/L
RT: 15.093 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

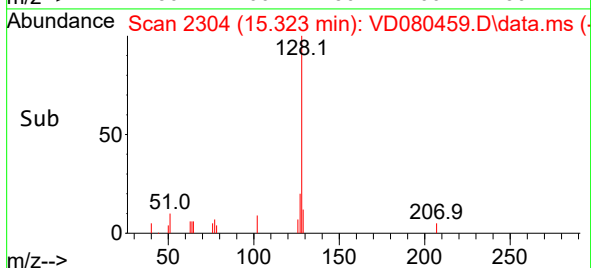
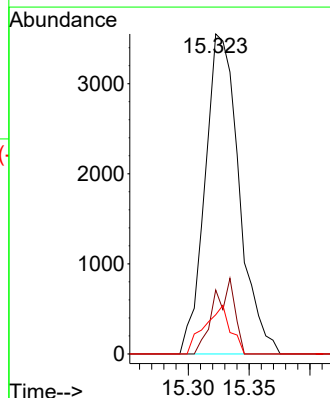
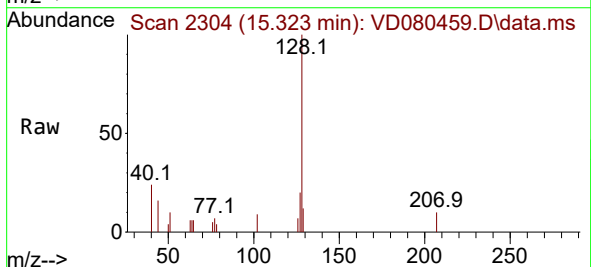
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT2-2025-03

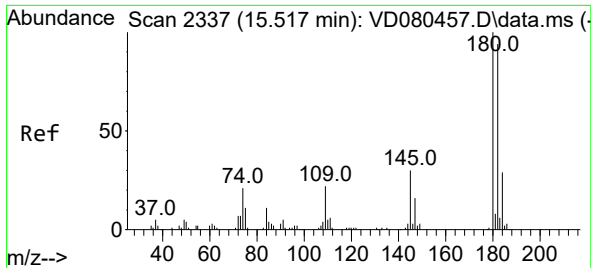
Tgt Ion:180 Resp: 4314
Ion Ratio Lower Upper
180 100
182 96.9 76.0 114.0
145 27.4 22.2 33.4



#71
Naphthalene
Concen: 1.37 ug/L
RT: 15.323 min Scan# 2304
Delta R.T. -0.006 min
Lab File: VD080459.D
Acq: 19 Jun 2025 12:56

Tgt Ion:128 Resp: 6920
Ion Ratio Lower Upper
128 100
127 14.4 11.0 16.6
129 11.5 9.0 13.4





#72

1,2,3-Trichlorobenzene

Concen: 1.39 ug/L

RT: 15.517 min Scan# 21

Delta R.T. -0.000 min

Lab File: VD080459.D

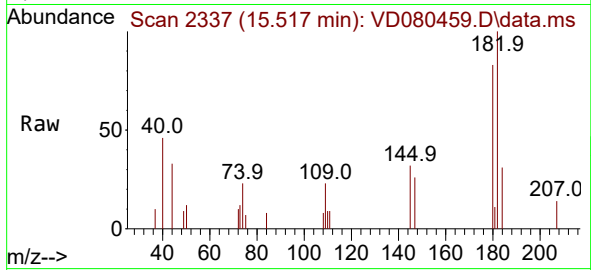
Acq: 19 Jun 2025 12:56

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT2-2025-03



Tgt Ion:180 Resp: 3640

Ion Ratio Lower Upper

180 100

182 101.6 74.7 112.1

145 31.7 24.2 36.4

