

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091225\
 Data File : VV039055.D
 Acq On : 12 Sep 2025 12:34
 Operator : SY/MD
 Sample : Q2899-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-06

Quant Time: Sep 13 00:46:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM091125WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 12 01:49:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	683258	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	713018	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	293992	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	268967	42.853	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.700%
7) Chloroethane-d5	1.545	69	234957	47.325	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.640%
11) 1,1-Dichloroethene-d2	2.069	65	122037	45.079	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.160%
21) 2-Butanone-d5	3.786	46	330192	134.057	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	134.060%#
24) Chloroform-d	4.253	84	533963	51.585	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.160%
26) 1,2-Dichloroethane-d4	4.941	65	345131	56.618	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.240%
32) Benzene-d6	4.960	84	986006	47.701	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.400%
36) 1,2-Dichloropropane-d6	5.986	67	332072	49.100	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.200%
41) Toluene-d8	7.236	98	824801	42.742	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.480%
43) trans-1,3-Dichloroprop...	7.548	79	147205	46.054	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.100%
47) 2-Hexanone-d5	8.014	63	259623	134.849	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	134.850%#
56) 1,1,2,2-Tetrachloroeth...	10.140	84	506284	52.568	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.140%
66) 1,2-Dichlorobenzene-d4	11.548	152	282015	51.075	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.160%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	11303	2.177	ug/L	97
3) Chloromethane	1.227	50	14487	2.488	ug/L	97
5) Vinyl chloride	1.294	62	16698	2.494	ug/L #	82
6) Bromomethane	1.500	94	10194	2.733	ug/L	93
8) Chloroethane	1.561	64	10336	2.428	ug/L	99
9) Trichlorofluoromethane	1.725	101	22493	2.383	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.079	101	17077	2.885	ug/L #	87
12) 1,1-Dichloroethene	2.082	96	15934	3.031	ug/L #	1
13) Acetone	2.124	43	17906	3.949	ug/L	98
14) Carbon disulfide	2.253	76	37756	2.195	ug/L	99
15) Methyl Acetate	2.397	43	14288	2.423	ug/L #	78
16) Methylene chloride	2.458	84	17078	2.952	ug/L	96
17) trans-1,2-Dichloroethene	2.712	96	12106	2.314	ug/L	85
18) Methyl tert-butyl Ether	2.712	73	36814	2.455	ug/L	96
19) 1,1-Dichloroethane	3.127	63	23781	2.444	ug/L	97
20) cis-1,2-Dichloroethene	3.828	96	13284	2.376	ug/L	98
22) 2-Butanone	3.905	43	3367	0.880	ug/L	88
23) Bromochloromethane	4.175	128	7537	2.464	ug/L	89
25) Chloroform	4.275	83	13199	1.271	ug/L	81

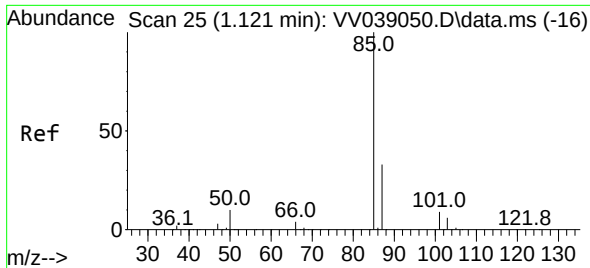
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091225\
 Data File : VV039055.D
 Acq On : 12 Sep 2025 12:34
 Operator : SY/MD
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 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-06

Quant Time: Sep 13 00:46:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM091125WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 12 01:49:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.056	62	20706	2.737	ug/L	97
29) Cyclohexane	4.580	56	15216	1.718	ug/L #	57
30) 1,1,1-Trichloroethane	4.519	97	23389	2.433	ug/L	95
31) Carbon tetrachloride	4.741	117	17508	2.048	ug/L	96
33) Benzene	5.018	78	55998	2.519	ug/L	100
34) Trichloroethene	5.847	95	11659	1.935	ug/L	94
35) Methylcyclohexane	6.040	83	18255	1.893	ug/L	97
37) 1,2-Dichloropropane	6.101	63	13189	2.217	ug/L #	94
38) Bromodichloromethane	6.439	83	20083	2.398	ug/L	92
39) cis-1,3-Dichloropropene	6.963	75	22809	2.405	ug/L	98
40) 4-Methyl-2-pentanone	7.162	43	29597	3.921	ug/L	94
42) Toluene	7.320	91	51976	2.122	ug/L	97
44) trans-1,3-Dichloropropene	7.590	75	18459	2.019	ug/L	88
45) 1,1,2-Trichloroethane	7.777	97	15753	2.502	ug/L	95
46) Tetrachloroethene	7.902	164	10029	2.146	ug/L	95
48) 2-Hexanone	8.085	43	22282	4.232	ug/L #	88
49) Dibromochloromethane	8.172	129	16389	2.462	ug/L	85
50) 1,2-Dibromoethane	8.288	107	17659	2.685	ug/L	98
51) Chlorobenzene	8.809	112	36545	2.297	ug/L	95
52) Ethylbenzene	8.947	91	48747	1.892	ug/L	97
53) m,p-Xylene	9.075	106	15375	1.559	ug/L	94
54) o-Xylene	9.474	106	16433	1.799	ug/L	85
55) Styrene	9.500	104	24730	1.533	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.169	83	28688	2.825	ug/L #	98
59) Bromoform	9.664	173	11344	2.863	ug/L #	98
60) Isopropylbenzene	9.860	105	40387	1.996	ug/L	96
61) 1,2,3-Trichloropropane	10.204	75	19534	3.162	ug/L	98
62) 1,3,5-Trimethylbenzene	10.471	105	29807	1.883	ug/L	100
63) 1,2,4-Trimethylbenzene	10.847	105	28640	1.826	ug/L	97
64) 1,3-Dichlorobenzene	11.114	146	21600	2.242	ug/L	95
65) 1,4-Dichlorobenzene	11.198	146	25990	2.521	ug/L	98
67) 1,2-Dichlorobenzene	11.567	146	26424	2.743	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.362	75	6127	3.532	ug/L	93
69) 1,3,5-Trichlorobenzene	12.577	180	14111	2.269	ug/L	96
70) 1,2,4-trichlorobenzene	13.194	180	11064	2.046	ug/L	99
71) Naphthalene	13.435	128	33430	1.849	ug/L	97
72) 1,2,3-Trichlorobenzene	13.670	180	12226	2.178	ug/L	99

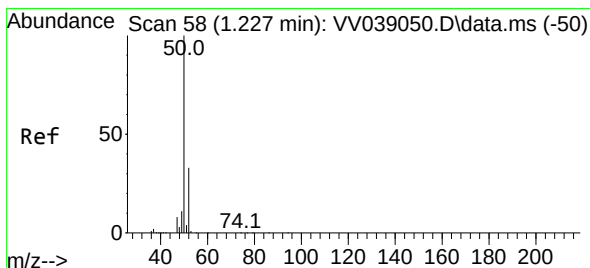
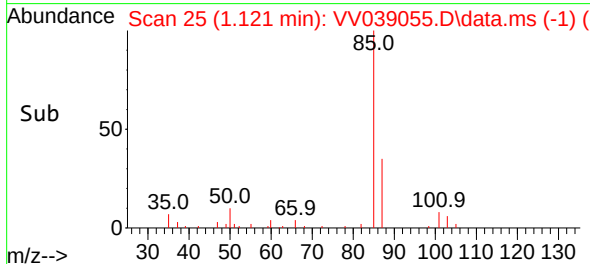
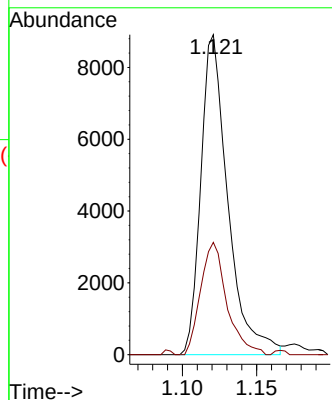
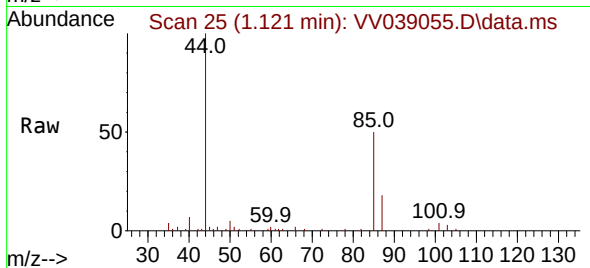
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#2
Dichlorodifluoromethane
Concen: 2.177 ug/L
RT: 1.121 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

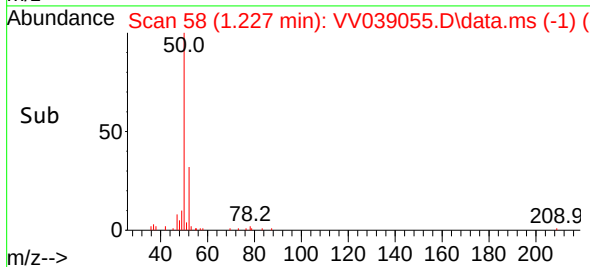
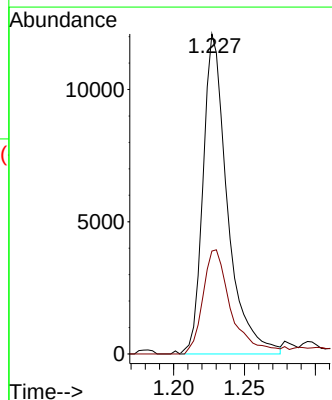
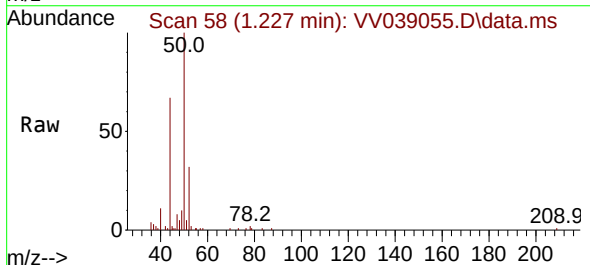
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT3-2025-06

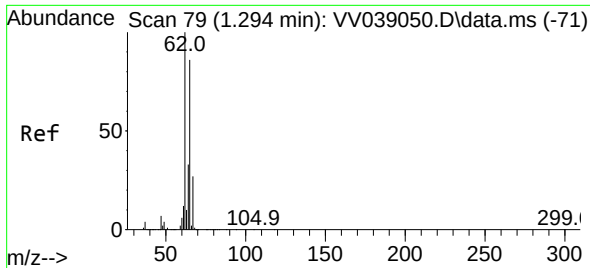
Tgt Ion: 85 Resp: 11303
Ion Ratio Lower Upper
85 100
87 34.0 25.8 38.8



#3
Chloromethane
Concen: 2.488 ug/L
RT: 1.227 min Scan# 58
Delta R.T. 0.000 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion: 50 Resp: 14487
Ion Ratio Lower Upper
50 100
52 32.2 23.6 43.8

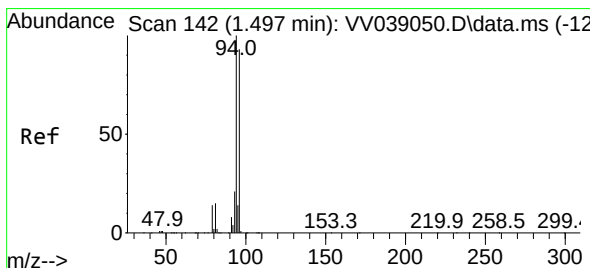
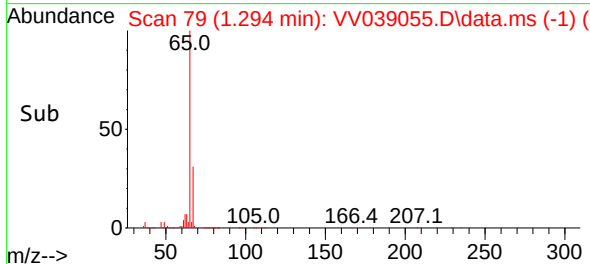
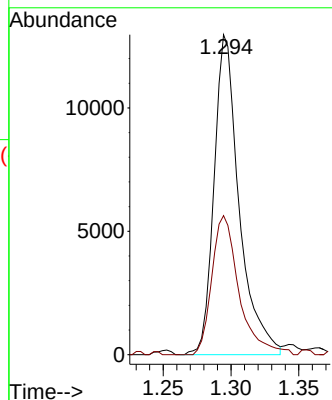
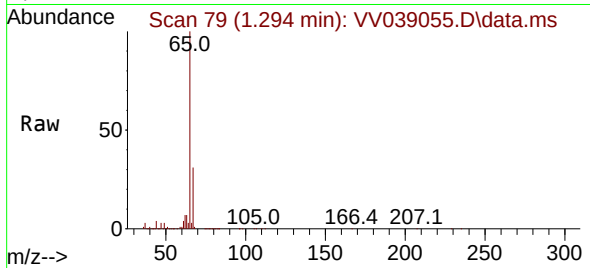




#5
 Vinyl chloride
 Concen: 2.494 ug/L
 RT: 1.294 min Scan# 79
 Delta R.T. 0.000 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

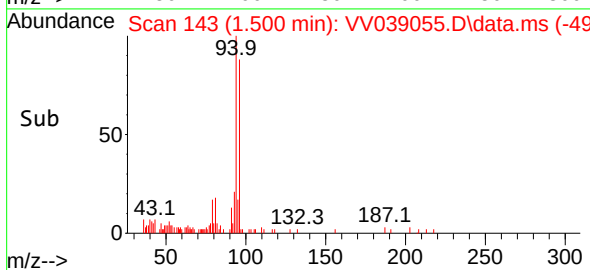
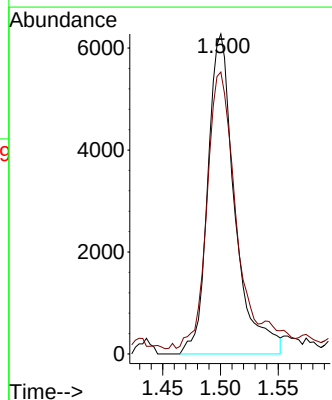
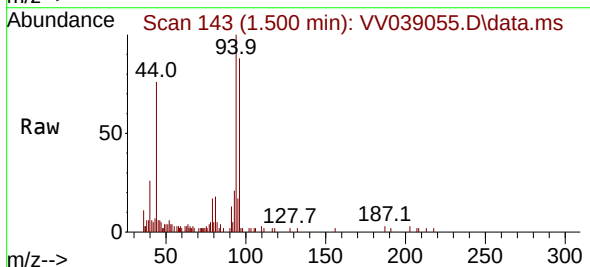
Instrument :
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 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-06

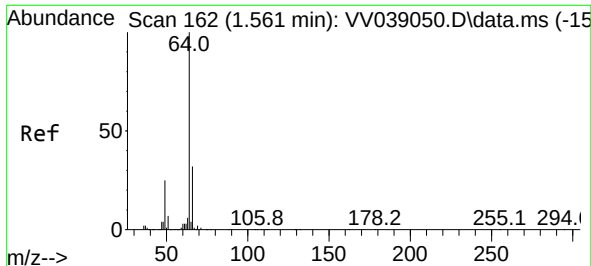
Tgt Ion: 62 Resp: 16698
 Ion Ratio Lower Upper
 62 100
 64 43.4 23.4 43.4#



#6
 Bromomethane
 Concen: 2.733 ug/L
 RT: 1.500 min Scan# 143
 Delta R.T. 0.003 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

Tgt Ion: 94 Resp: 10194
 Ion Ratio Lower Upper
 94 100
 96 88.1 66.3 123.1

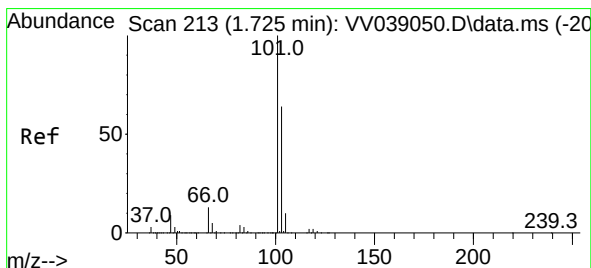
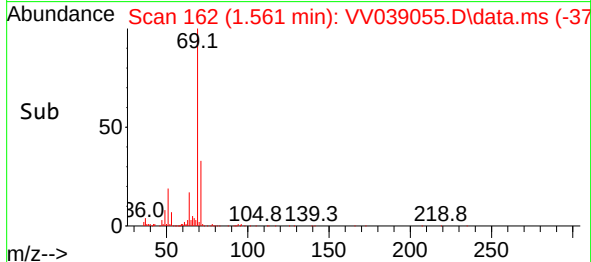
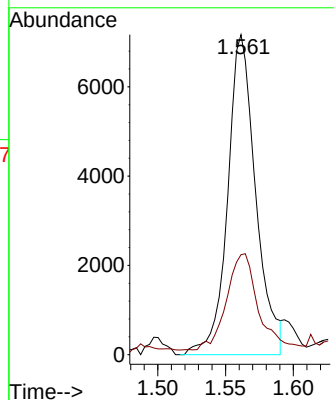
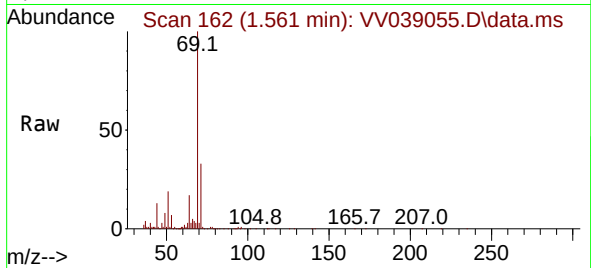




#8
Chloroethane
Concen: 2.428 ug/L
RT: 1.561 min Scan# 10336
Delta R.T. 0.003 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

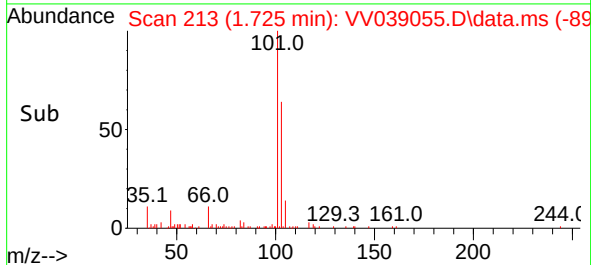
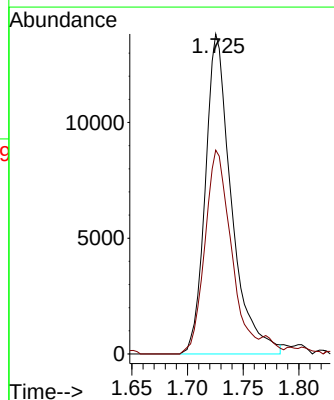
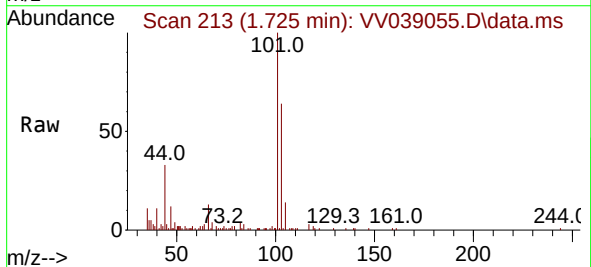
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

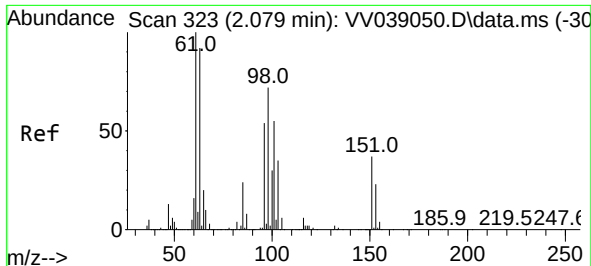
Tgt Ion: 64 Resp: 10336
Ion Ratio Lower Upper
64 100
66 31.3 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.383 ug/L
RT: 1.725 min Scan# 213
Delta R.T. 0.000 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion: 101 Resp: 22493
Ion Ratio Lower Upper
101 100
103 64.5 52.1 78.1





#10

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

Concen: 2.885 ug/L

RT: 2.079 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

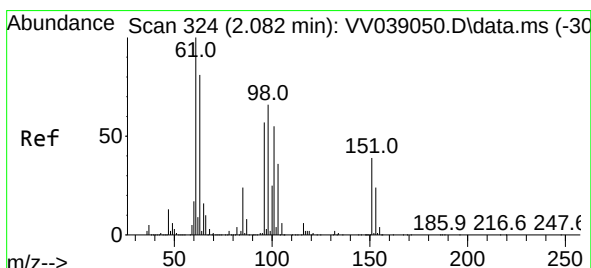
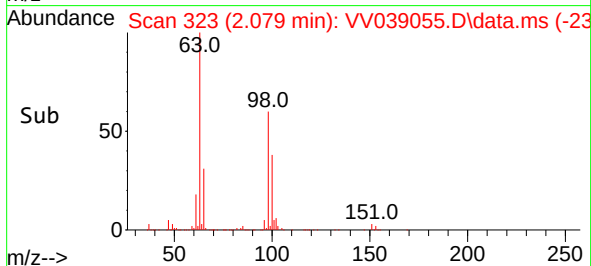
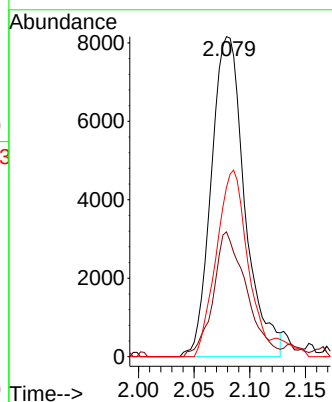
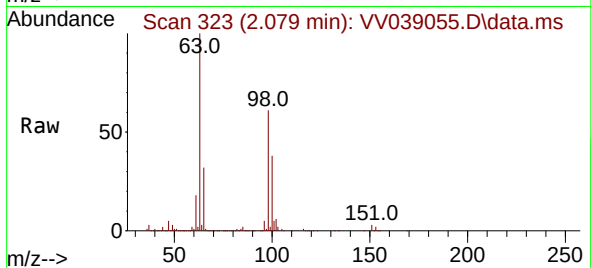
Tgt Ion:101 Resp: 17077

Ion Ratio Lower Upper

101 100

85 38.6 34.7 52.1

151 54.3 54.6 81.8#



#12

1,1-Dichloroethene

Concen: 3.031 ug/L

RT: 2.082 min Scan# 324

Delta R.T. 0.003 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

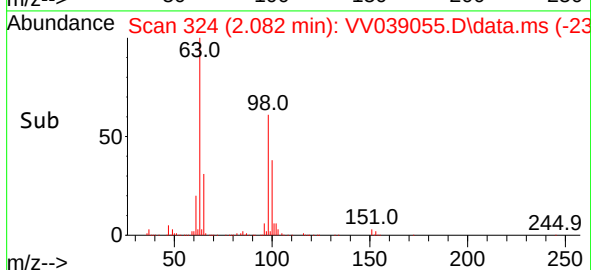
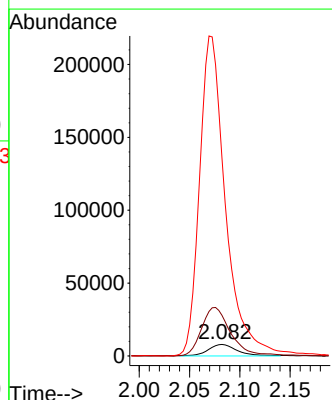
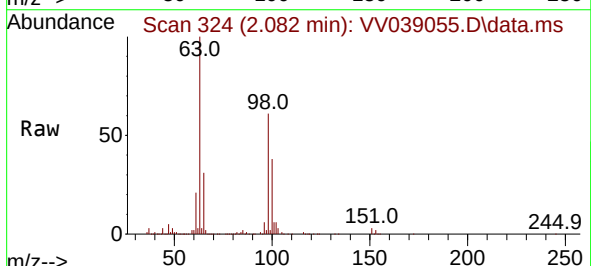
Tgt Ion: 96 Resp: 15934

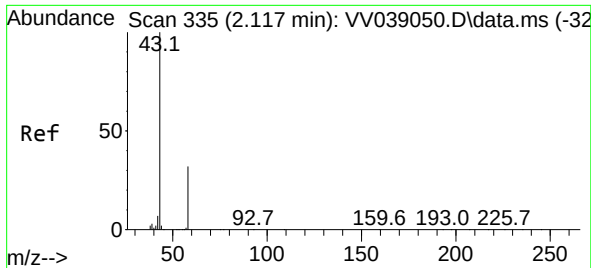
Ion Ratio Lower Upper

96 100

61 351.2 123.3 229.1#

63 1711.2 116.6 216.6#





#13

Acetone

Concen: 3.949 ug/L

RT: 2.124 min Scan# 335

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

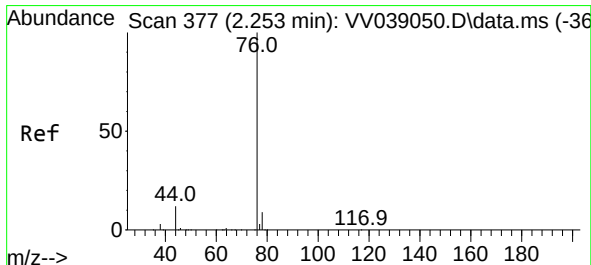
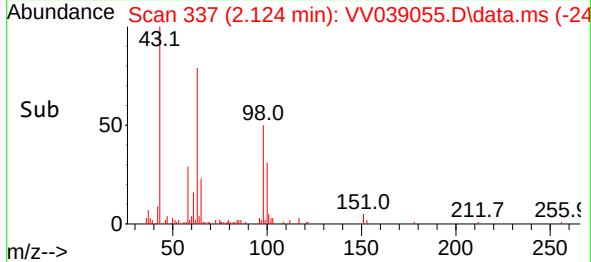
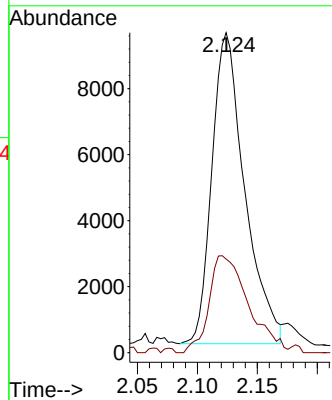
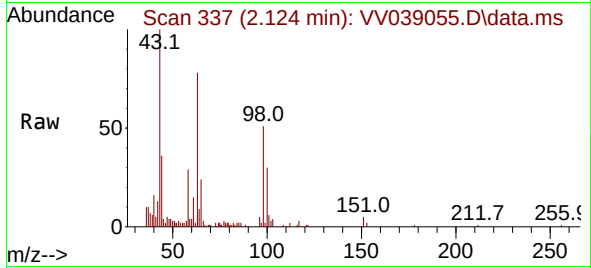
MDL-MED-SOIL-QT3-2025-06

Tgt Ion: 43 Resp: 17906

Ion Ratio Lower Upper

43 100

58 34.1 0.0 65.8



#14

Carbon disulfide

Concen: 2.195 ug/L

RT: 2.253 min Scan# 377

Delta R.T. 0.003 min

Lab File: VV039055.D

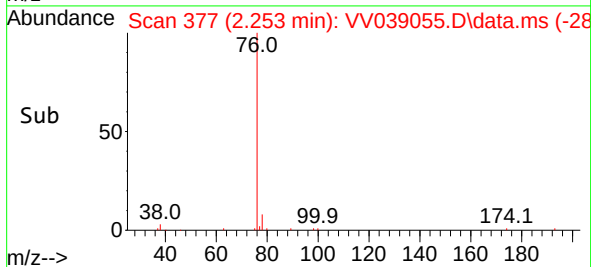
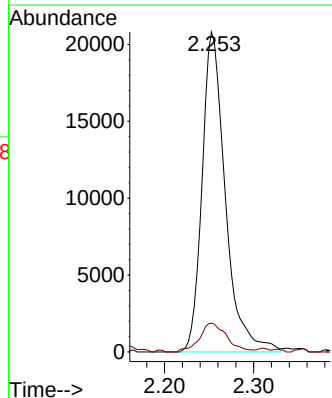
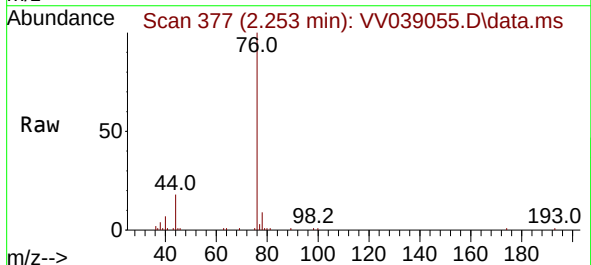
Acq: 12 Sep 2025 12:34

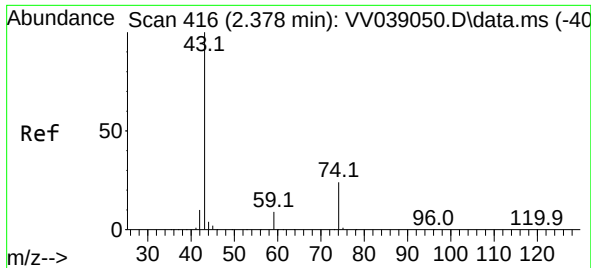
Tgt Ion: 76 Resp: 37756

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6

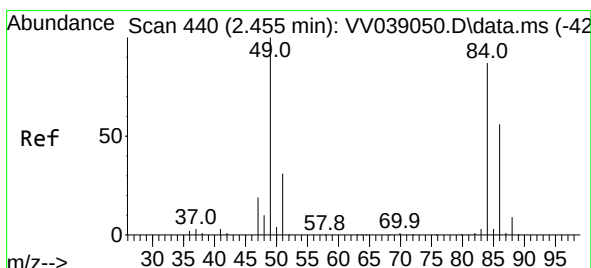
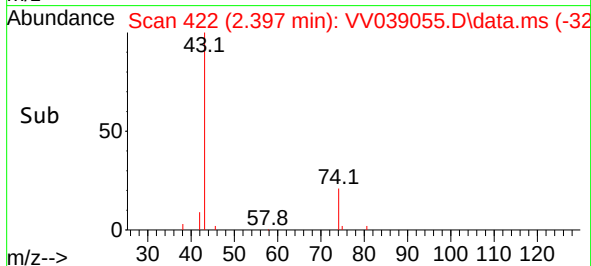
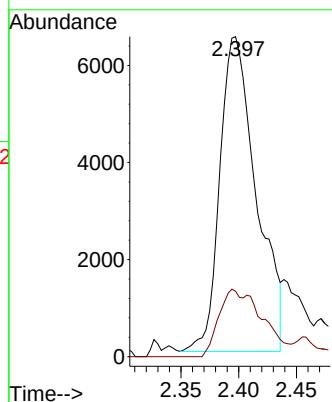
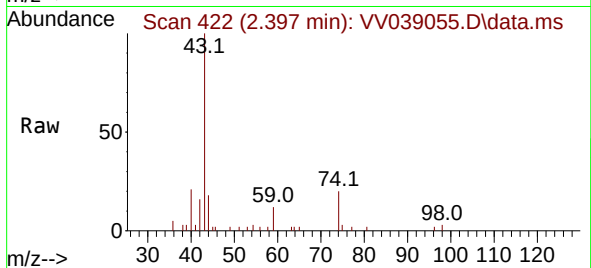




#15
Methyl Acetate
Concen: 2.423 ug/L
RT: 2.397 min Scan# 416
Delta R.T. 0.019 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

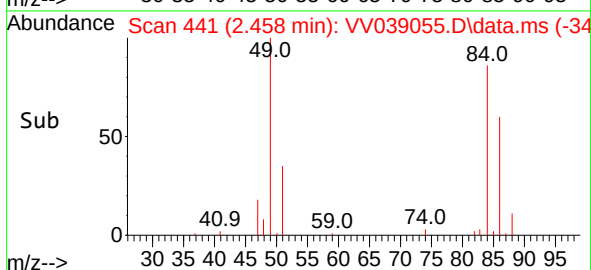
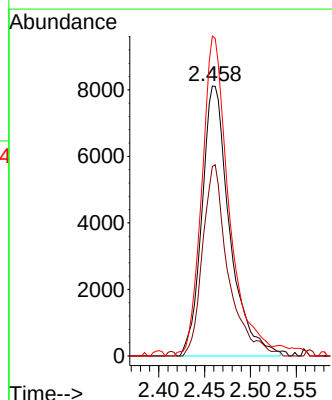
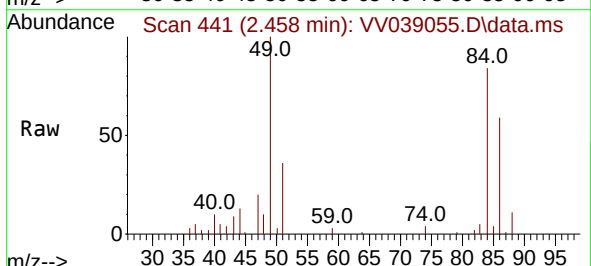
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

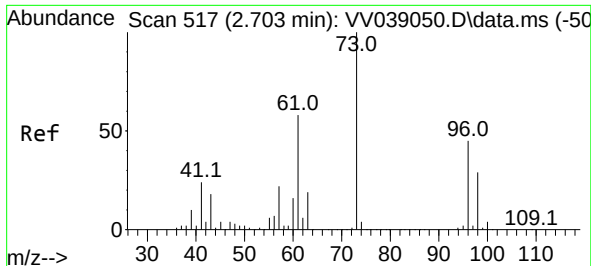
Tgt Ion: 43 Resp: 14288
Ion Ratio Lower Upper
43 100
74 13.7 19.6 29.4#



#16
Methylene chloride
Concen: 2.952 ug/L
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion: 84 Resp: 17078
Ion Ratio Lower Upper
84 100
86 70.3 44.7 83.1
49 118.6 82.0 152.4

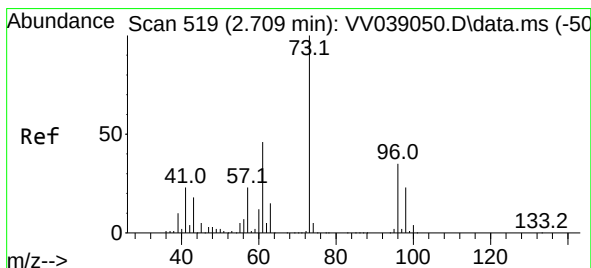
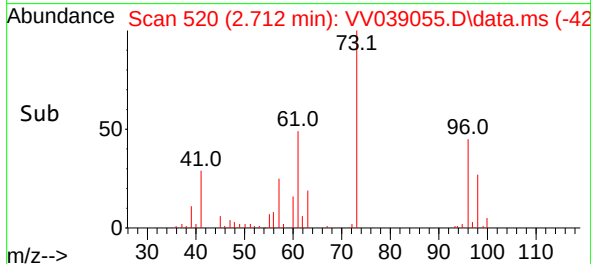
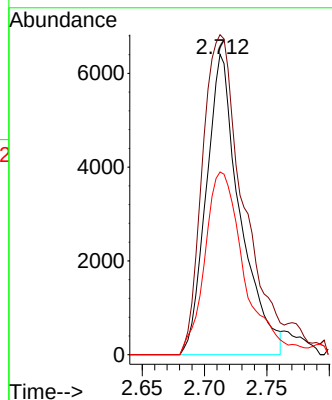
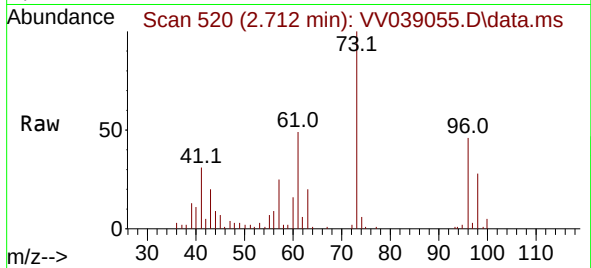




#17
trans-1,2-Dichloroethene
Concen: 2.314 ug/L
RT: 2.712 min Scan# 51
Delta R.T. 0.013 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

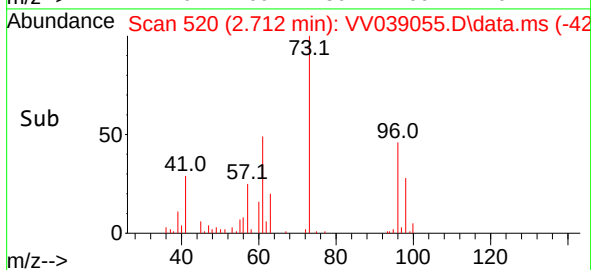
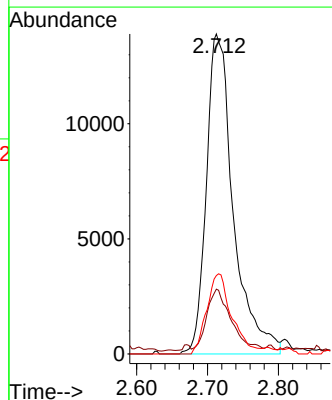
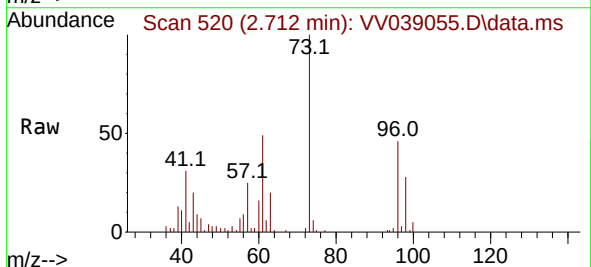
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

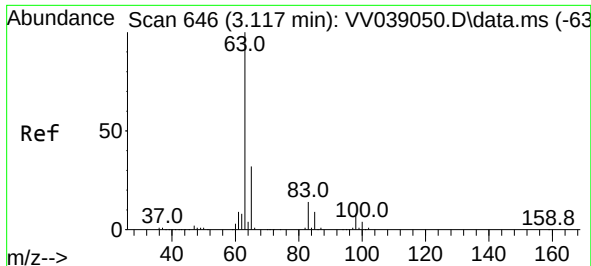
Tgt Ion: 96 Resp: 12106
Ion Ratio Lower Upper
96 100
61 106.6 91.3 169.5
98 60.8 44.7 83.1



#18
Methyl tert-butyl Ether
Concen: 2.455 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.007 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion: 73 Resp: 36814
Ion Ratio Lower Upper
73 100
43 15.9 14.2 21.4
57 23.3 17.5 26.3





#19

1,1-Dichloroethane

Concen: 2.444 ug/L

RT: 3.127 min Scan# 64

Delta R.T. 0.013 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

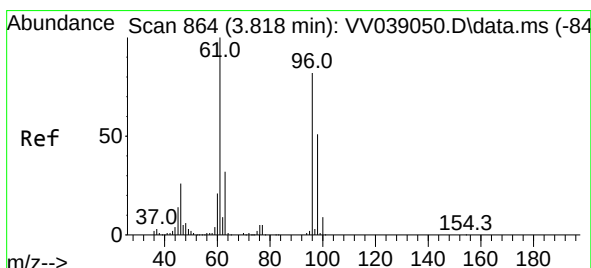
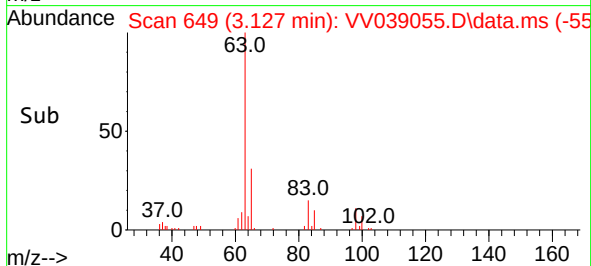
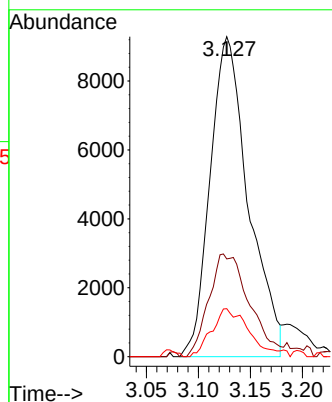
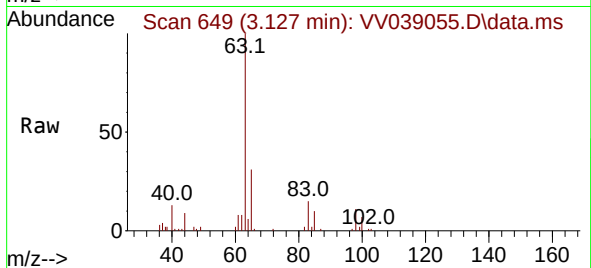
Tgt Ion: 63 Resp: 23781

Ion Ratio Lower Upper

63 100

65 30.6 22.4 41.6

83 15.0 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 2.376 ug/L

RT: 3.828 min Scan# 867

Delta R.T. 0.013 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

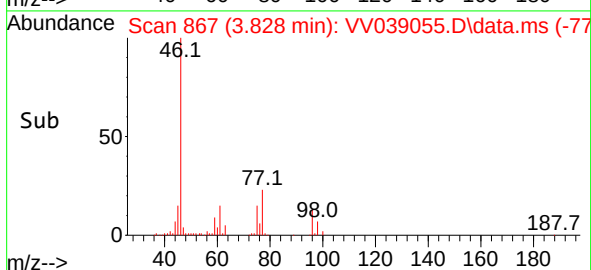
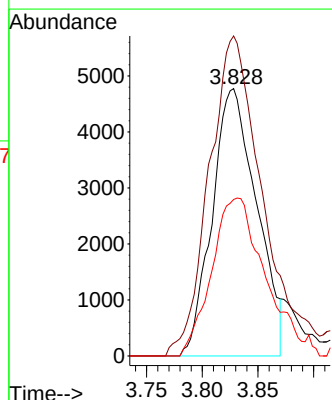
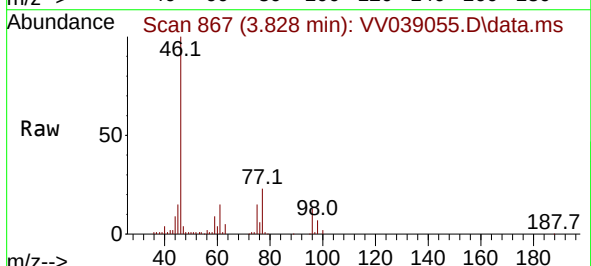
Tgt Ion: 96 Resp: 13284

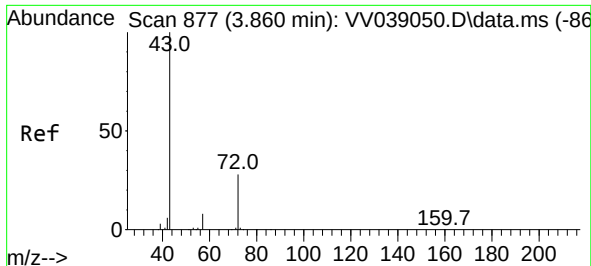
Ion Ratio Lower Upper

96 100

61 119.7 83.8 155.6

98 58.5 43.5 80.9

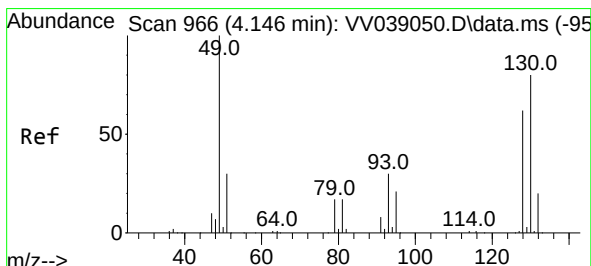
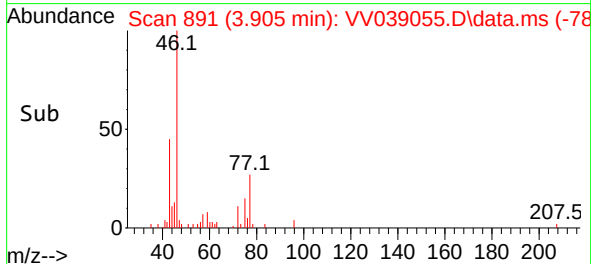
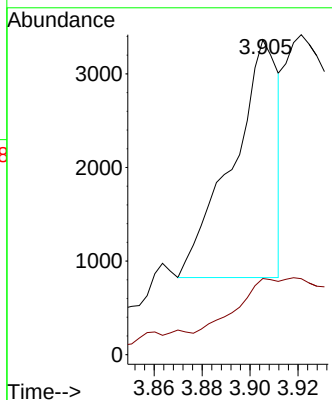
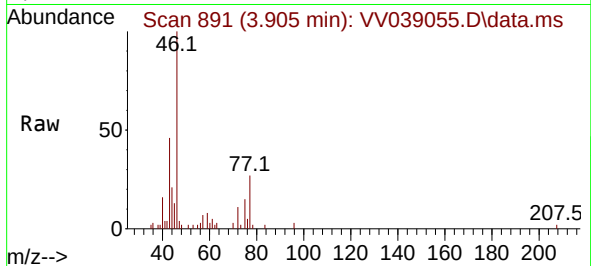




#22
2-Butanone
Concen: 0.880 ug/L
RT: 3.905 min Scan# 891
Delta R.T. 0.048 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

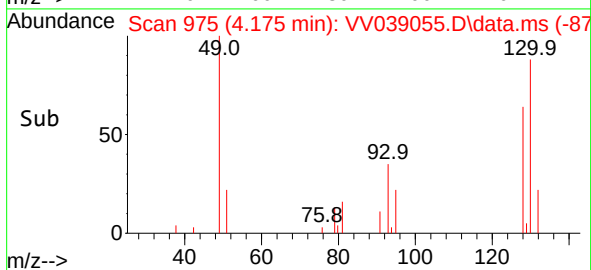
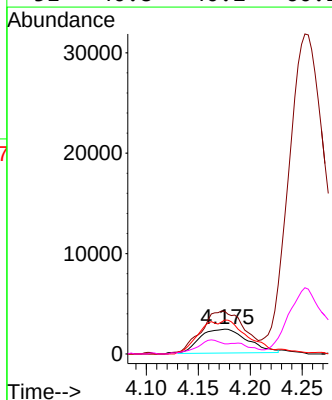
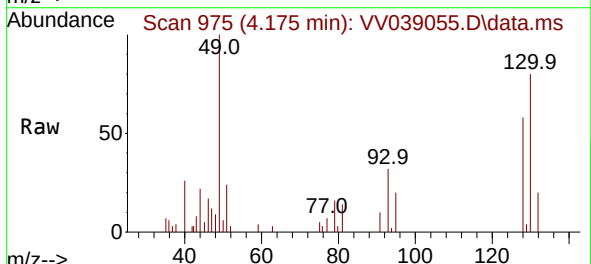
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

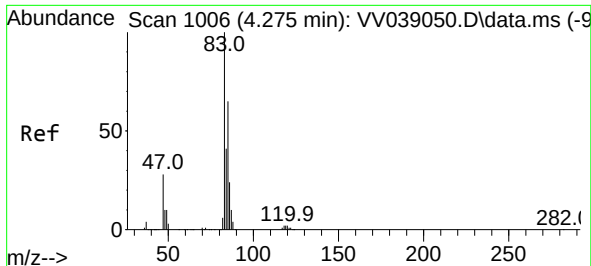
Tgt Ion: 43 Resp: 3367
Ion Ratio Lower Upper
43 100
72 20.3 13.2 39.5



#23
Bromochloromethane
Concen: 2.464 ug/L
RT: 4.175 min Scan# 975
Delta R.T. 0.029 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion:128 Resp: 7537
Ion Ratio Lower Upper
128 100
49 171.8 108.4 201.4
130 137.1 89.1 165.5
51 40.8 40.2 60.2

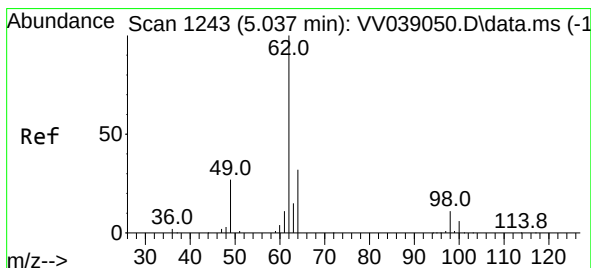
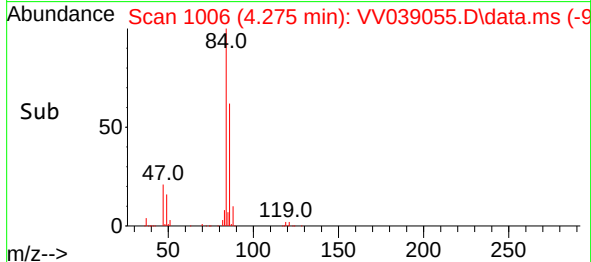
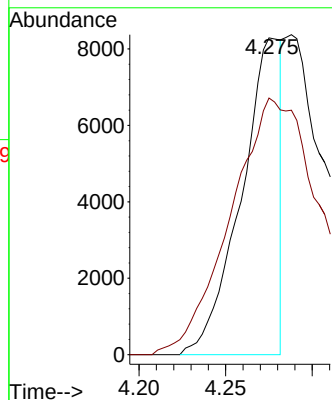
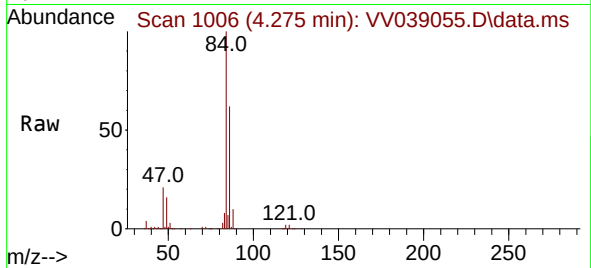




#25
Chloroform
Concen: 1.271 ug/L
RT: 4.275 min Scan# 1006
Delta R.T. 0.003 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

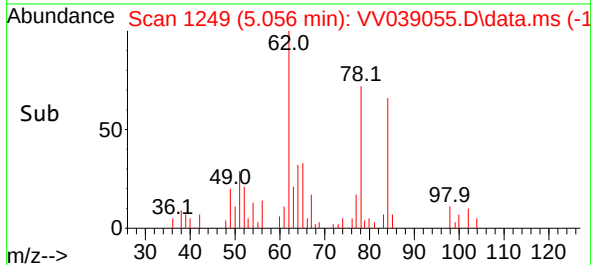
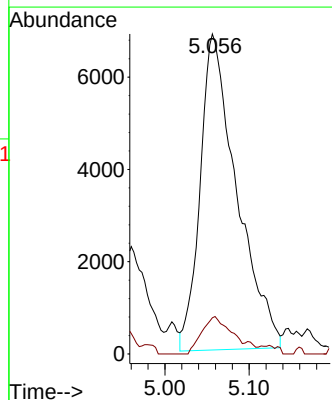
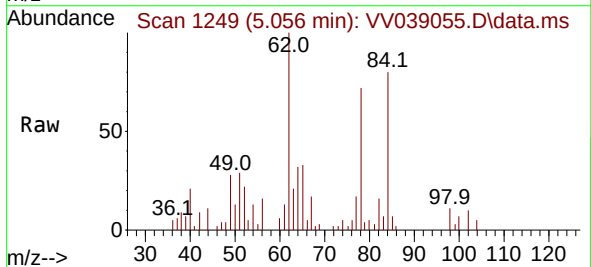
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

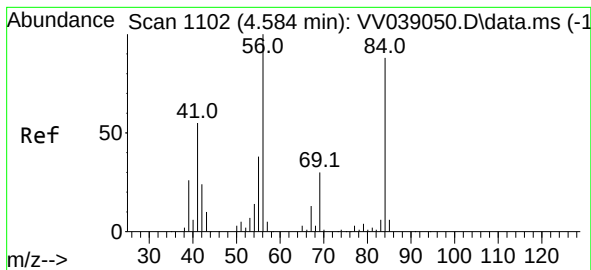
Tgt Ion: 83 Resp: 13199
Ion Ratio Lower Upper
83 100
85 81.0 46.1 85.5



#27
1,2-Dichloroethane
Concen: 2.737 ug/L
RT: 5.056 min Scan# 1249
Delta R.T. 0.023 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion: 62 Resp: 20706
Ion Ratio Lower Upper
62 100
98 11.3 8.2 12.4





#29

Cyclohexane

Concen: 1.718 ug/L

RT: 4.580 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

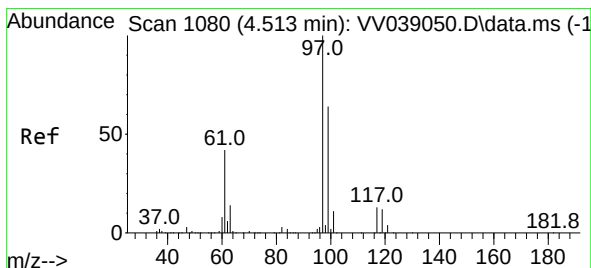
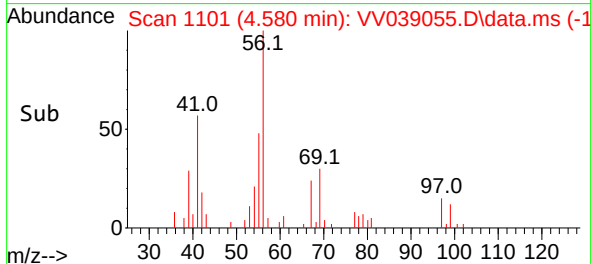
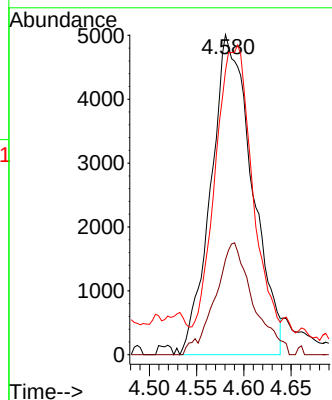
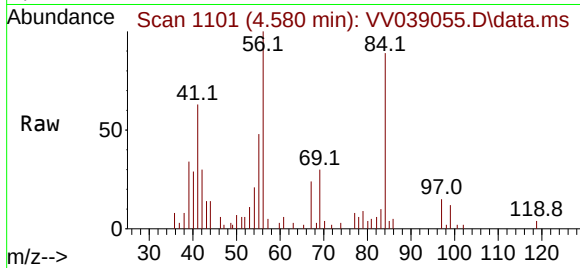
Tgt Ion: 56 Resp: 15216

Ion Ratio Lower Upper

56 100

69 31.1 25.1 37.7

84 36.2 73.0 109.4#



#30

1,1,1-Trichloroethane

Concen: 2.433 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

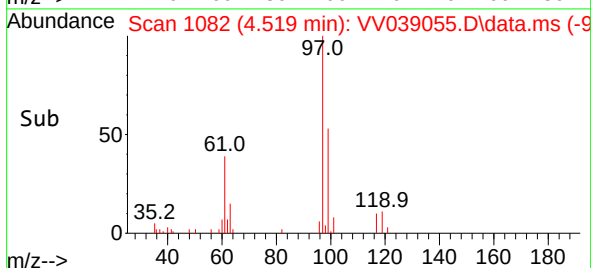
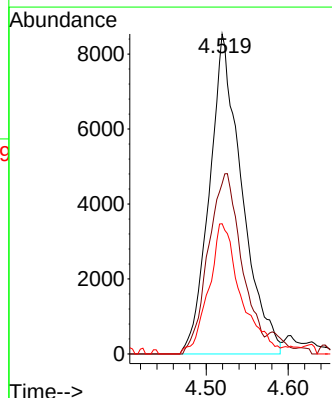
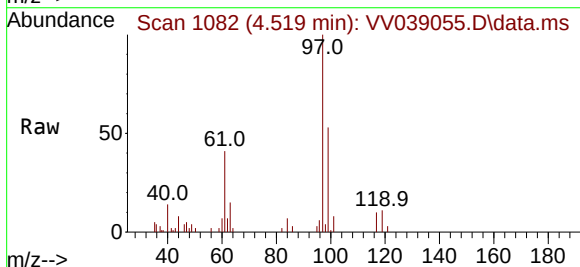
Tgt Ion: 97 Resp: 23389

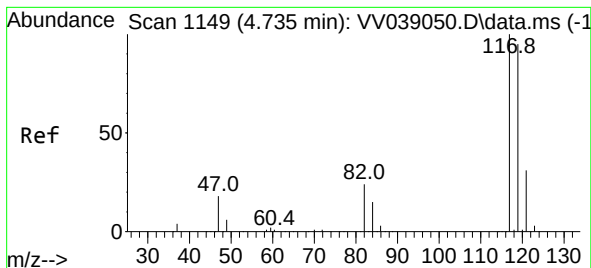
Ion Ratio Lower Upper

97 100

99 58.1 51.1 76.7

61 40.6 33.7 50.5





#31

Carbon tetrachloride

Concen: 2.048 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

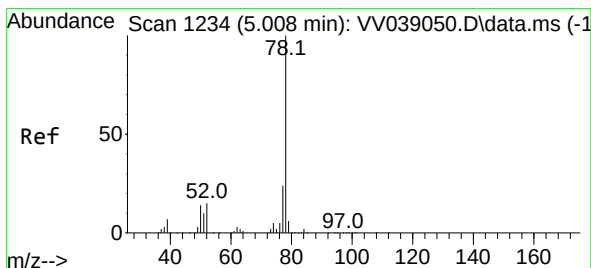
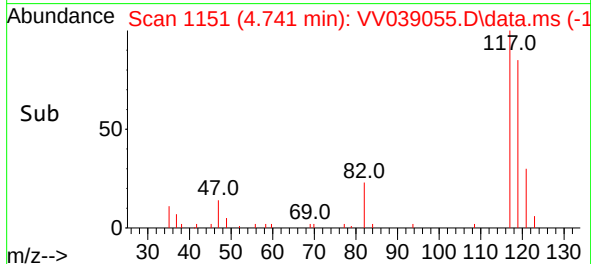
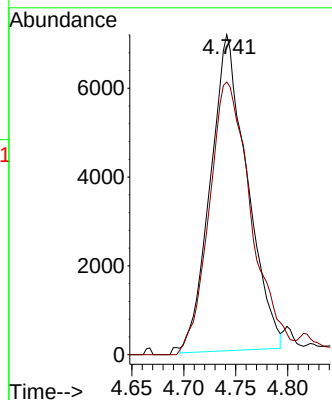
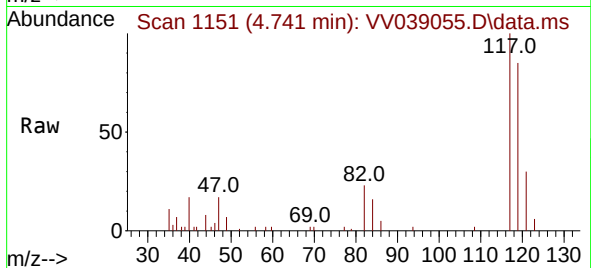
MDL-MED-SOIL-QT3-2025-06

Tgt Ion:117 Resp: 17508

Ion Ratio Lower Upper

117 100

119 99.3 76.2 114.4



#33

Benzene

Concen: 2.519 ug/L

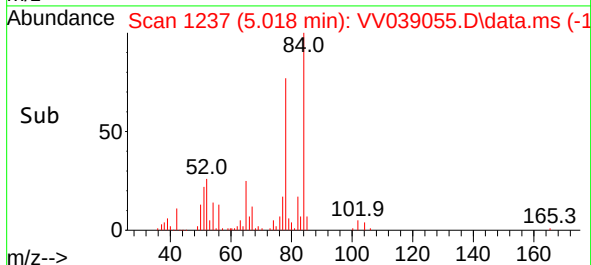
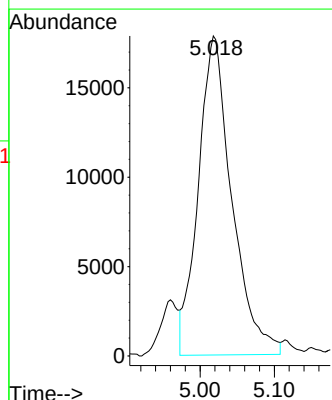
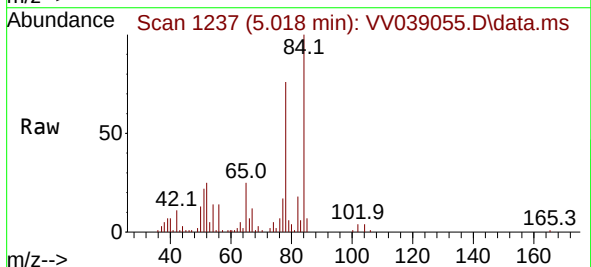
RT: 5.018 min Scan# 1237

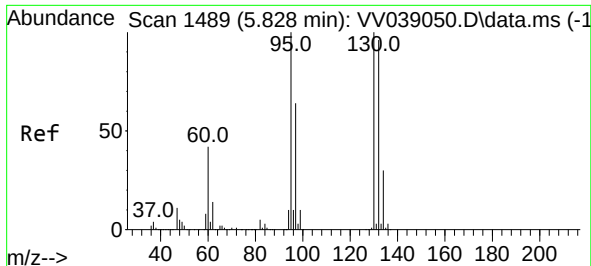
Delta R.T. 0.013 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Tgt Ion: 78 Resp: 55998





#34

Trichloroethene

Concen: 1.935 ug/L

RT: 5.847 min Scan# 1489

Delta R.T. 0.023 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

Tgt Ion: 95 Resp: 11659

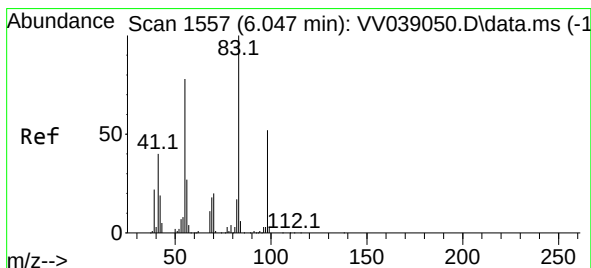
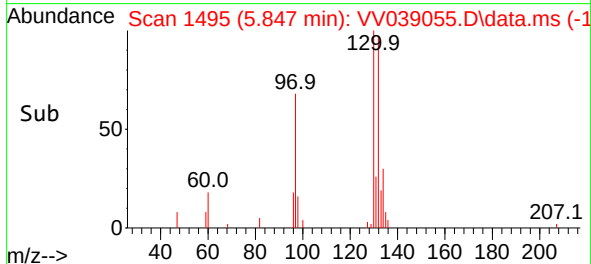
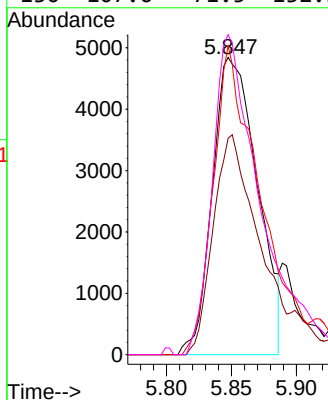
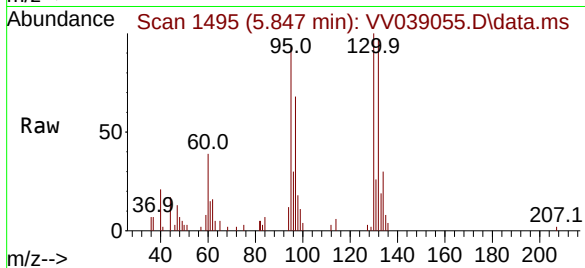
Ion Ratio Lower Upper

95 100

97 72.8 45.4 84.2

132 103.9 69.9 129.7

130 107.6 71.5 132.9



#35

Methylcyclohexane

Concen: 1.893 ug/L

RT: 6.040 min Scan# 1555

Delta R.T. -0.003 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

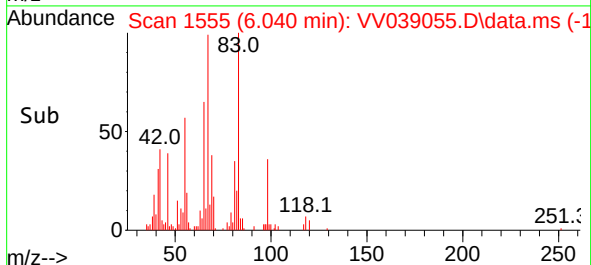
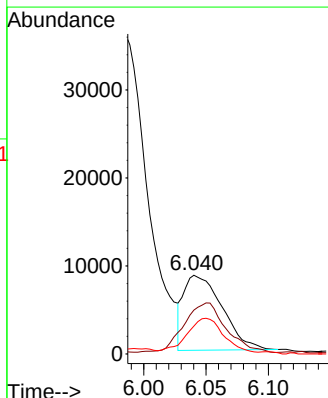
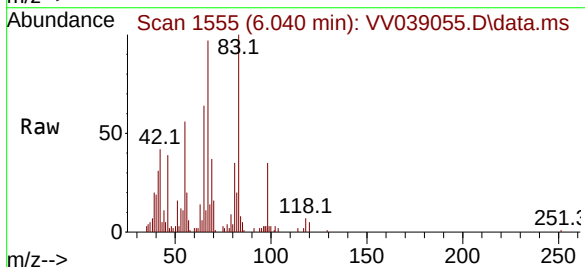
Tgt Ion: 83 Resp: 18255

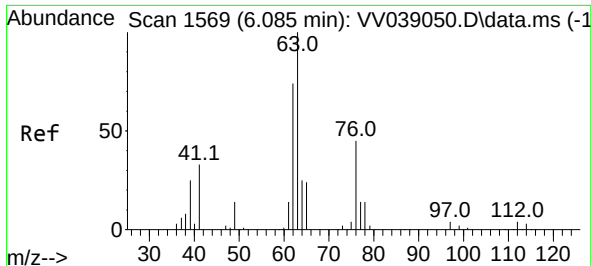
Ion Ratio Lower Upper

83 100

55 75.3 59.0 88.6

98 43.2 37.7 56.5





#37

1,2-Dichloropropane

Concen: 2.217 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.016 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

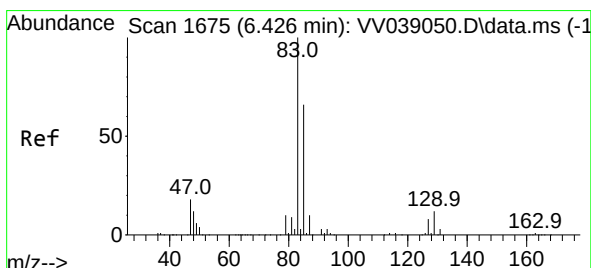
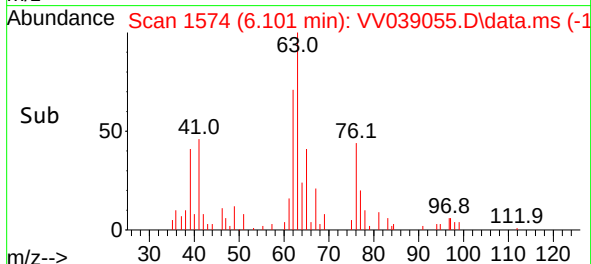
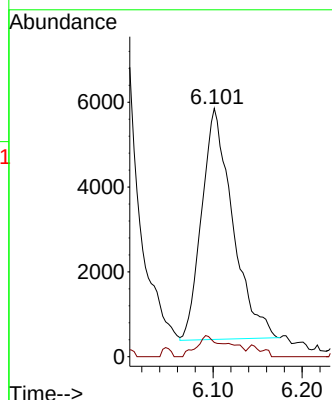
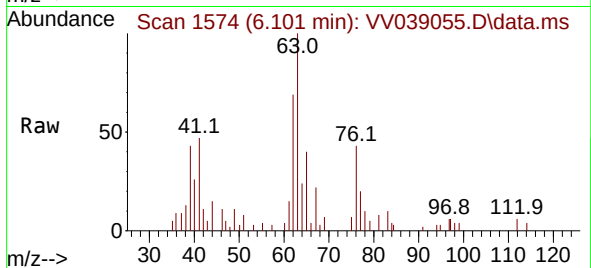
MDL-MED-SOIL-QT3-2025-06

Tgt Ion: 63 Resp: 13189

Ion Ratio Lower Upper

63 100

112 6.6 3.6 5.4#



#38

Bromodichloromethane

Concen: 2.398 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. 0.016 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

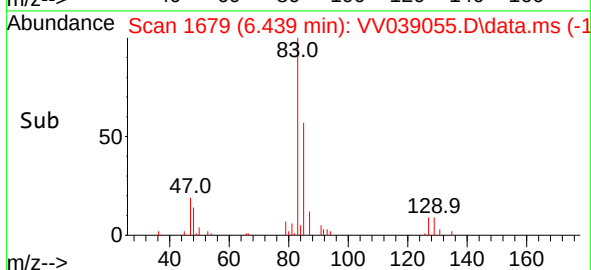
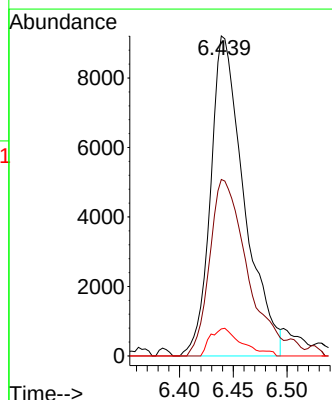
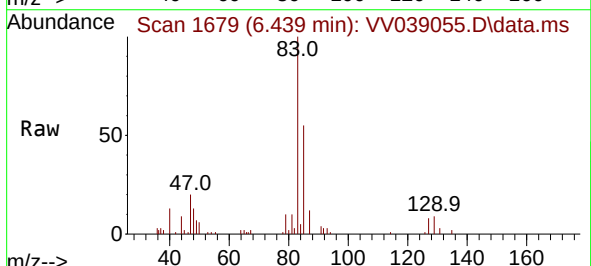
Tgt Ion: 83 Resp: 20083

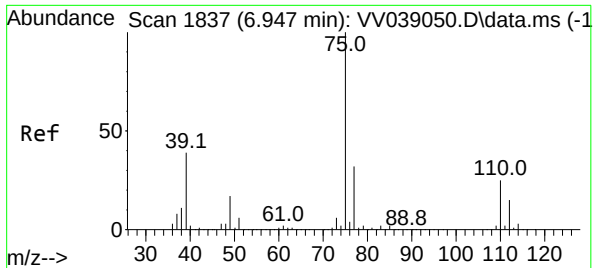
Ion Ratio Lower Upper

83 100

85 55.1 43.5 80.7

127 8.4 6.4 9.6

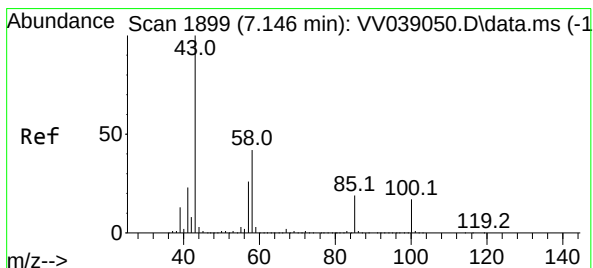
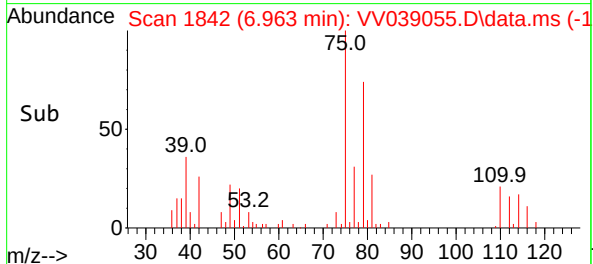
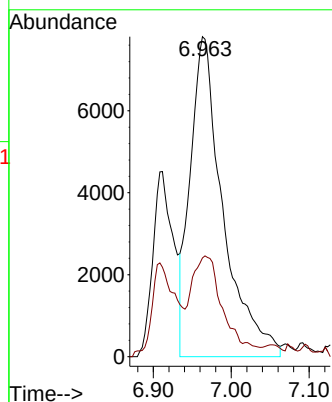
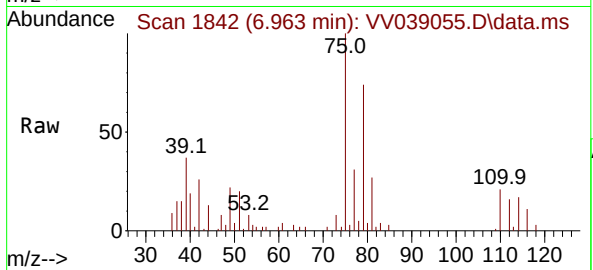




#39
 cis-1,3-Dichloropropene
 Concen: 2.405 ug/L
 RT: 6.963 min Scan# 11
 Delta R.T. 0.020 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

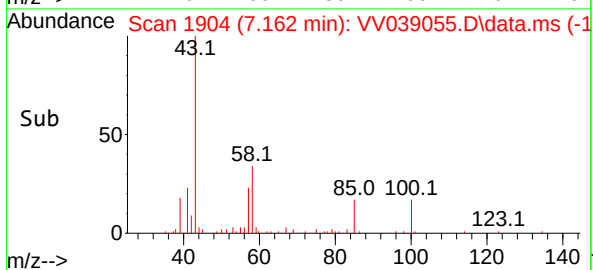
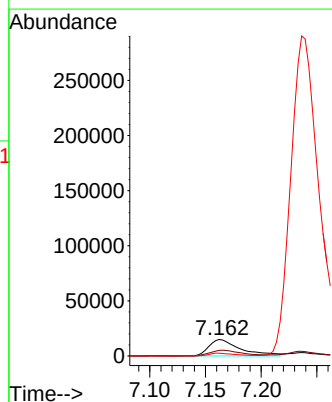
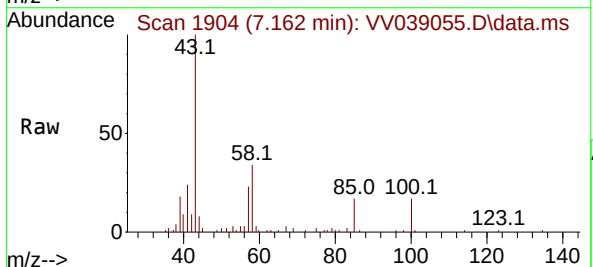
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-06

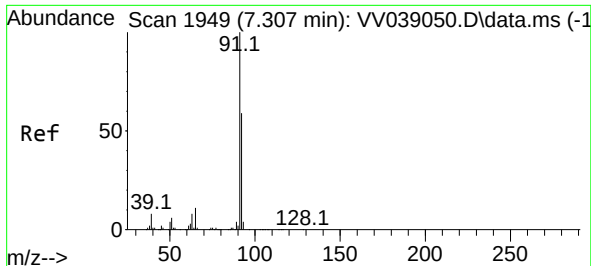
Tgt Ion: 75 Resp: 22809
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 3.921 ug/L
 RT: 7.162 min Scan# 1904
 Delta R.T. 0.019 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

Tgt Ion: 43 Resp: 29597
 Ion Ratio Lower Upper
 43 100
 58 36.2 32.6 48.8
 100 14.7 12.7 19.1





#42

Toluene

Concen: 2.122 ug/L

RT: 7.320 min Scan# 1949

Delta R.T. 0.016 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

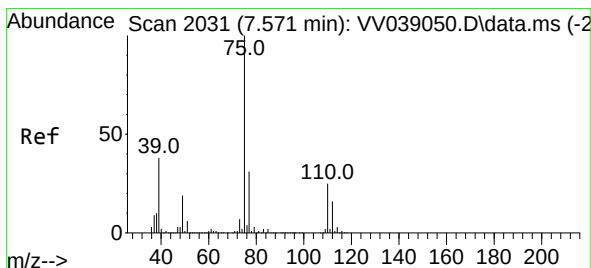
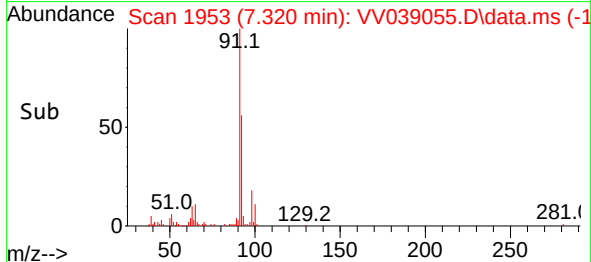
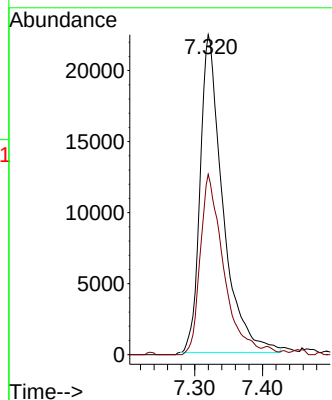
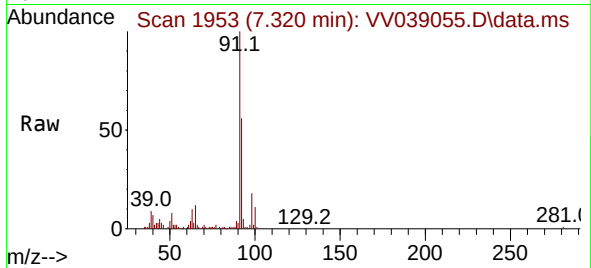
MDL-MED-SOIL-QT3-2025-06

Tgt Ion: 91 Resp: 51976

Ion Ratio Lower Upper

91 100

92 56.3 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 2.019 ug/L

RT: 7.590 min Scan# 2037

Delta R.T. 0.020 min

Lab File: VV039055.D

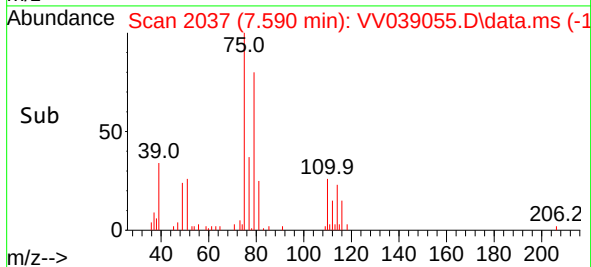
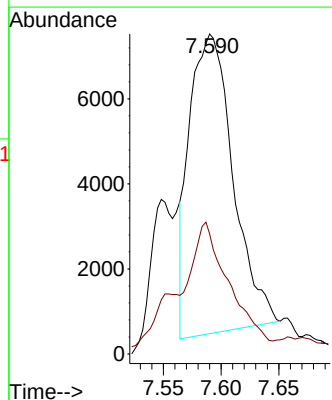
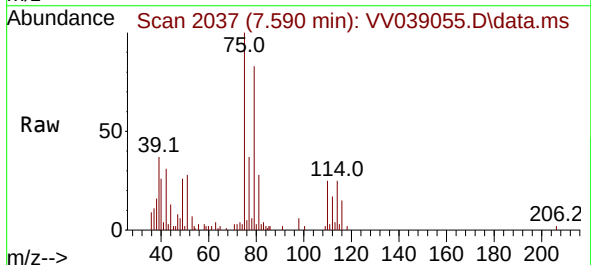
Acq: 12 Sep 2025 12:34

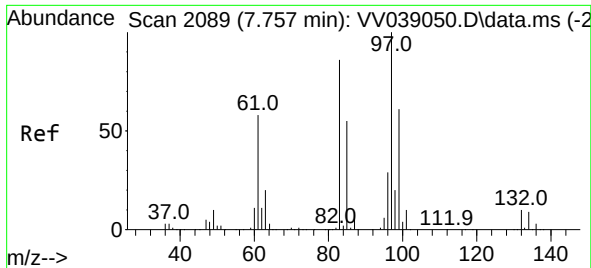
Tgt Ion: 75 Resp: 18459

Ion Ratio Lower Upper

75 100

77 37.5 21.6 40.2

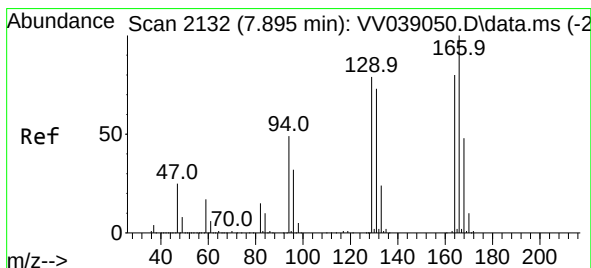
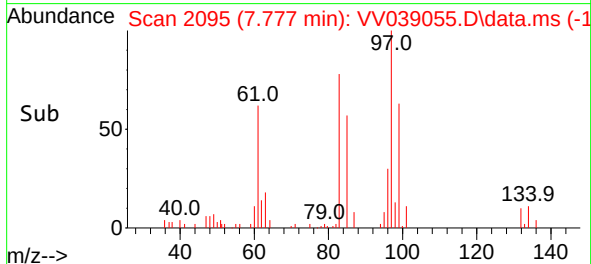
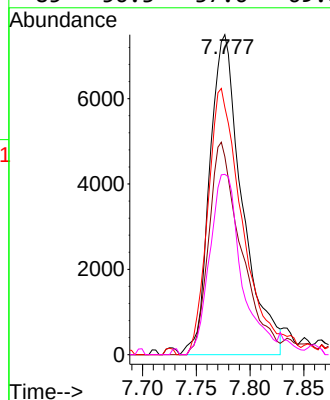
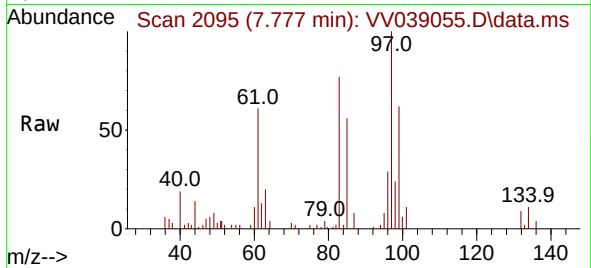




#45
1,1,2-Trichloroethane
Concen: 2.502 ug/L
RT: 7.777 min Scan# 2089
Delta R.T. 0.019 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

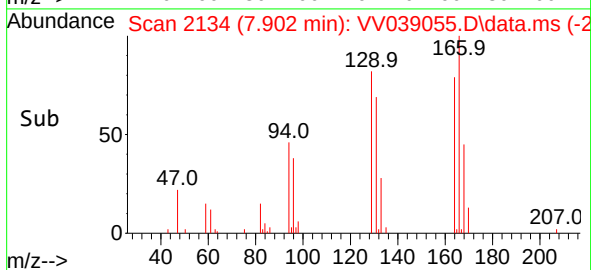
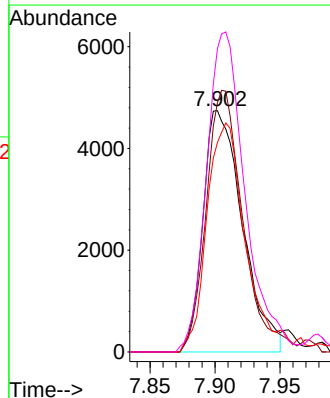
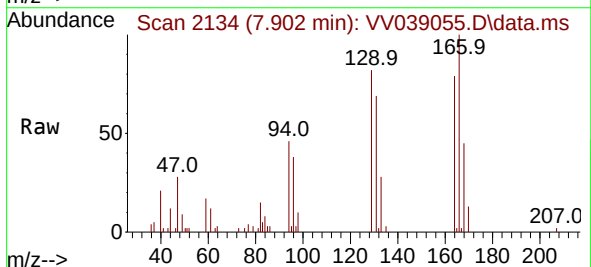
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT3-2025-06

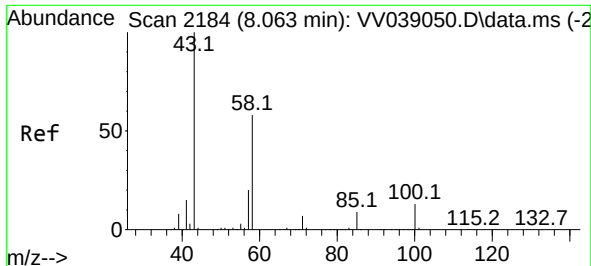
Tgt Ion: 97	Resp: 15753
Ion Ratio	Lower Upper
97 100	
99 61.9	42.3 78.5
83 77.3	59.4 110.2
85 56.3	37.6 69.8



#46
Tetrachloroethene
Concen: 2.146 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.007 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt	Ion:164	Resp:	10029
Ion	Ratio	Lower	Upper
164	100		
129	103.4	67.0	124.4
131	86.9	65.6	121.8
166	125.8	88.5	164.4

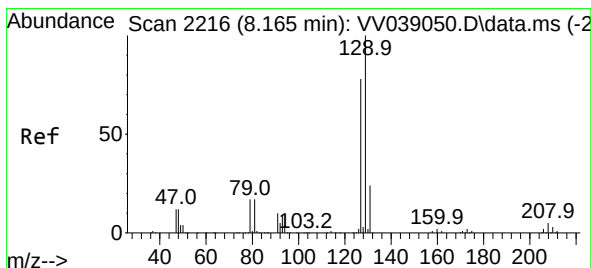
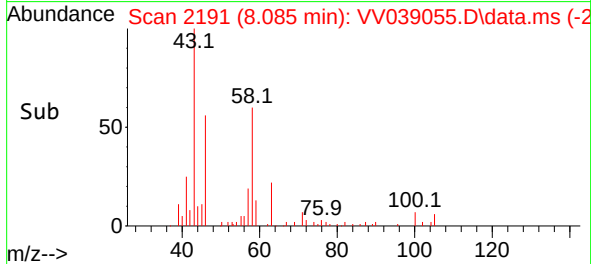
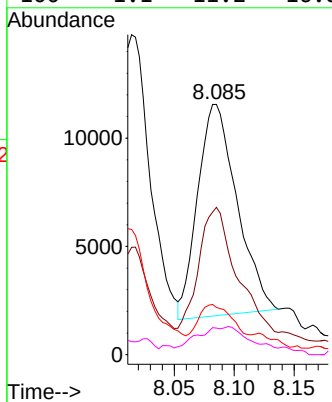
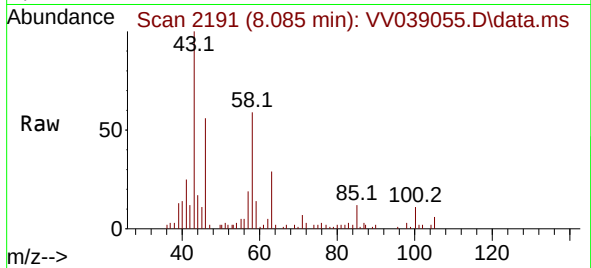




#48
2-Hexanone
Concen: 4.232 ug/L
RT: 8.085 min Scan# 2184
Delta R.T. 0.026 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

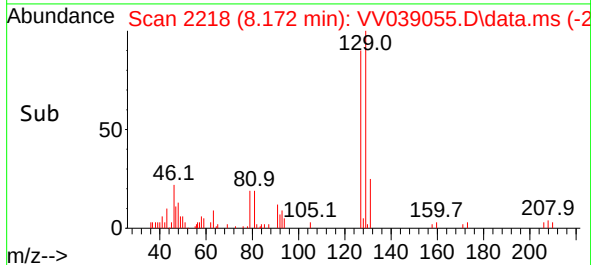
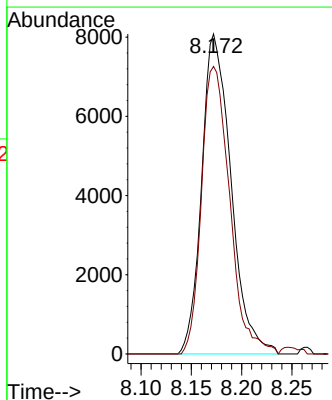
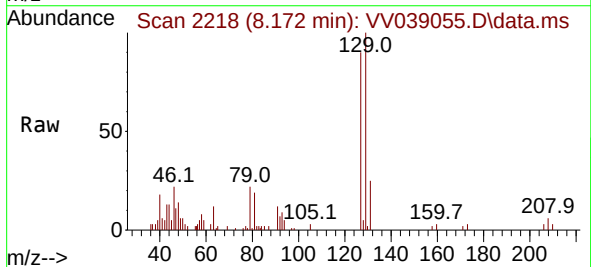
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT3-2025-06

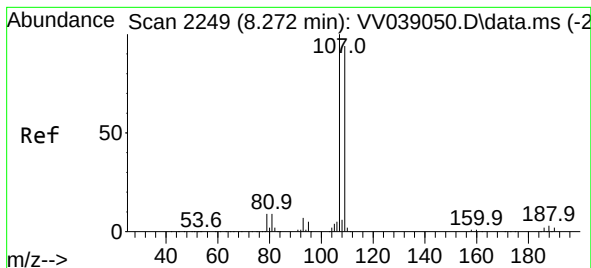
Tgt Ion: 43 Resp: 22282
Ion Ratio Lower Upper
43 100
58 63.0 46.3 69.5
57 13.9 15.8 23.6#
100 1.1 11.2 16.8#



#49
Dibromochloromethane
Concen: 2.462 ug/L
RT: 8.172 min Scan# 2218
Delta R.T. 0.007 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion: 129 Resp: 16389
Ion Ratio Lower Upper
129 100
127 89.9 53.8 100.0





#50

1,2-Dibromoethane

Concen: 2.685 ug/L

RT: 8.288 min Scan# 21

Delta R.T. 0.019 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

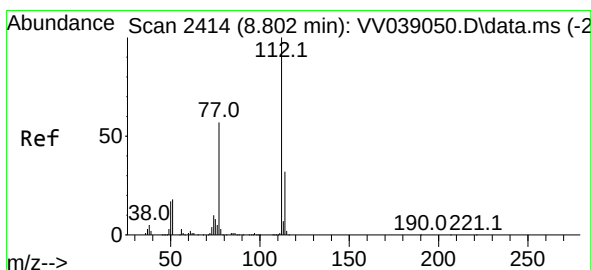
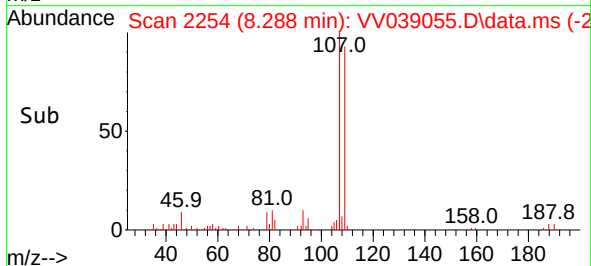
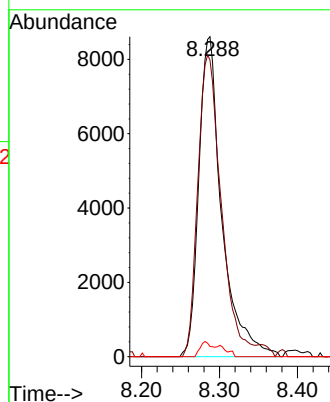
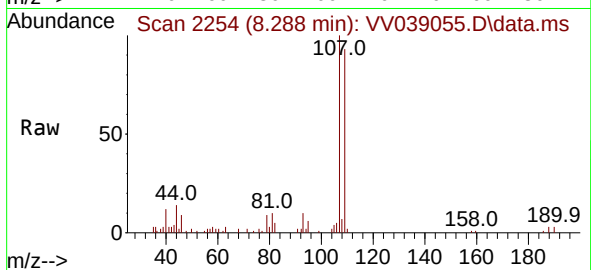
Tgt Ion:107 Resp: 17659

Ion Ratio Lower Upper

107 100

109 92.8 66.1 122.8

188 3.2 2.6 4.0



#51

Chlorobenzene

Concen: 2.297 ug/L

RT: 8.809 min Scan# 2416

Delta R.T. 0.007 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

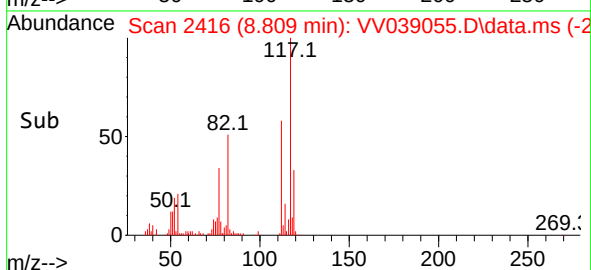
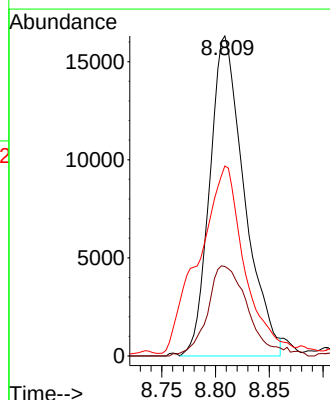
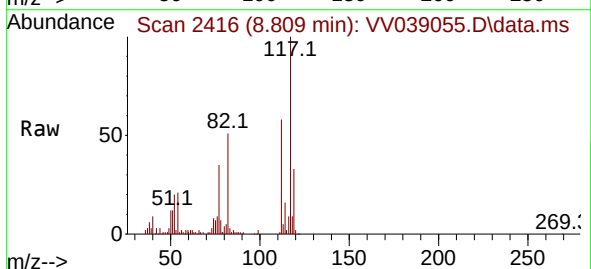
Tgt Ion:112 Resp: 36545

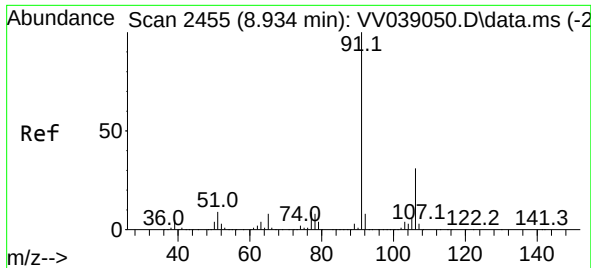
Ion Ratio Lower Upper

112 100

114 27.9 22.3 41.3

77 59.3 45.5 68.3

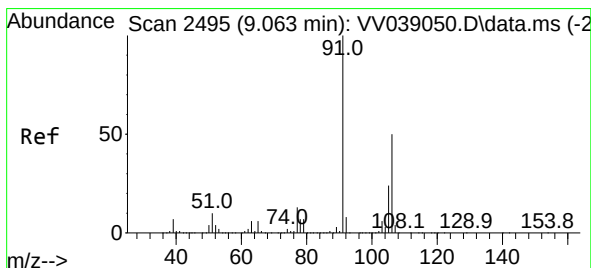
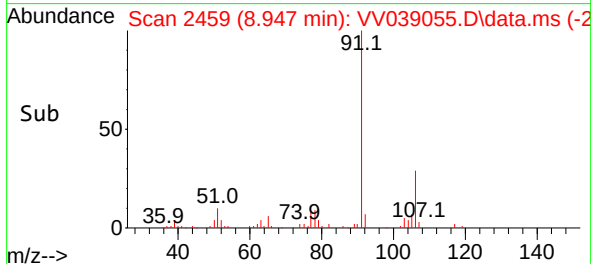
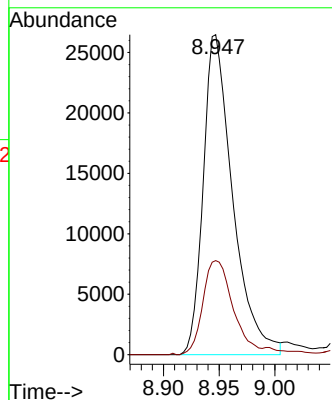
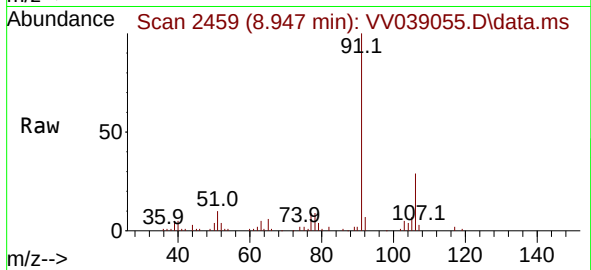




#52
Ethylbenzene
Concen: 1.892 ug/L
RT: 8.947 min Scan# 2459
Delta R.T. 0.013 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

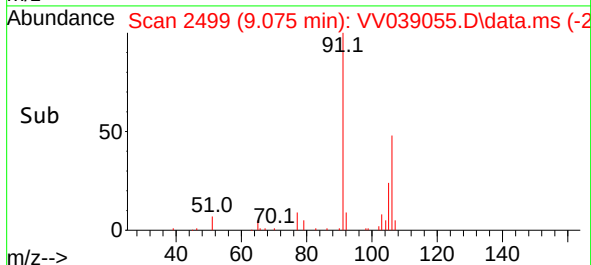
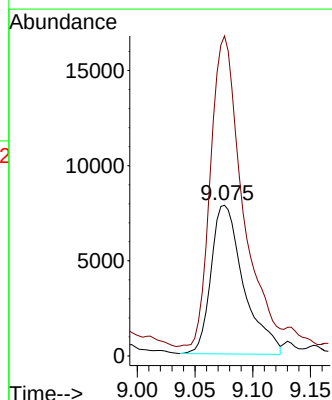
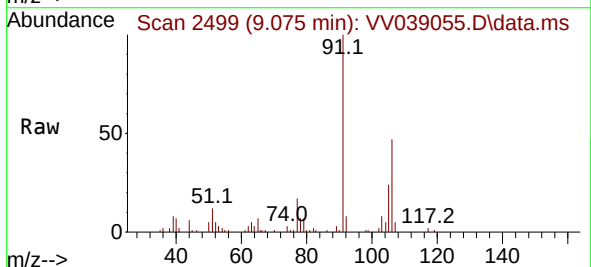
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

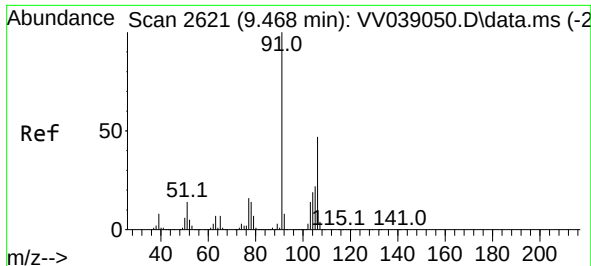
Tgt Ion: 91 Resp: 48747
Ion Ratio Lower Upper
91 100
106 29.4 21.7 40.3



#53
m,p-Xylene
Concen: 1.559 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. 0.016 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion:106 Resp: 15375
Ion Ratio Lower Upper
106 100
91 212.3 142.0 263.8

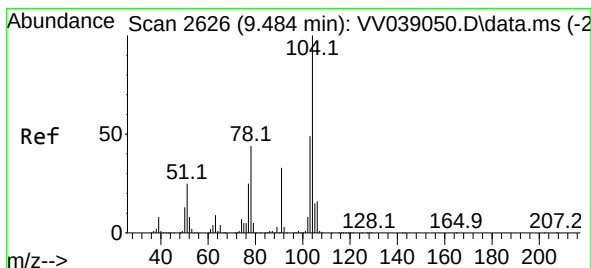
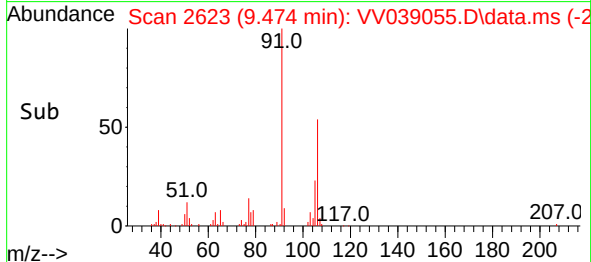
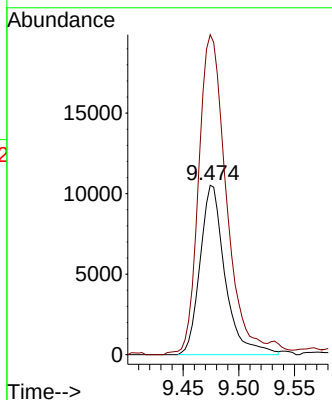
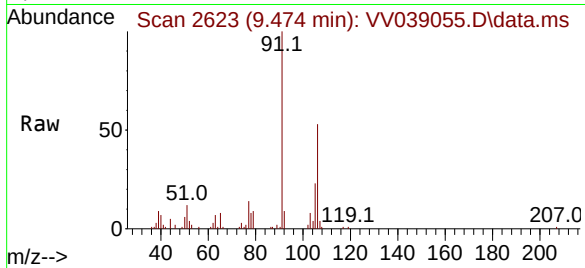




#54
o-Xylene
Concen: 1.799 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. 0.010 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

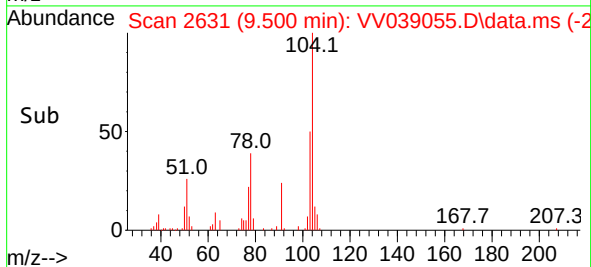
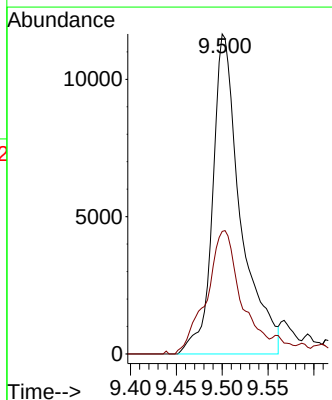
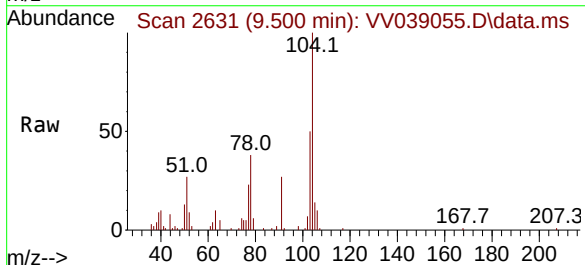
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT3-2025-06

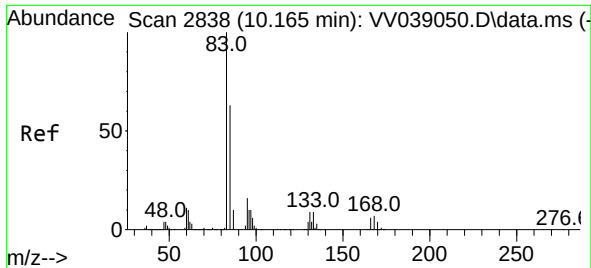
Tgt Ion:106 Resp: 16433
Ion Ratio Lower Upper
106 100
91 188.8 149.1 276.9



#55
Styrene
Concen: 1.533 ug/L
RT: 9.500 min Scan# 2631
Delta R.T. 0.016 min
Lab File: VV039055.D
Acq: 12 Sep 2025 12:34

Tgt Ion:104 Resp: 24730
Ion Ratio Lower Upper
104 100
78 38.3 30.3 56.3

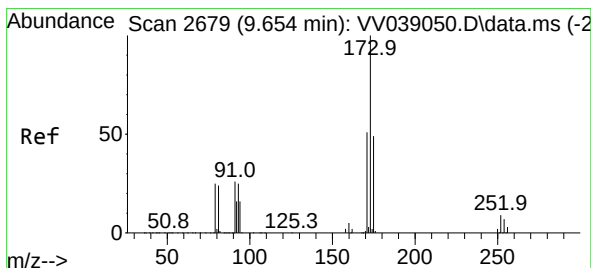
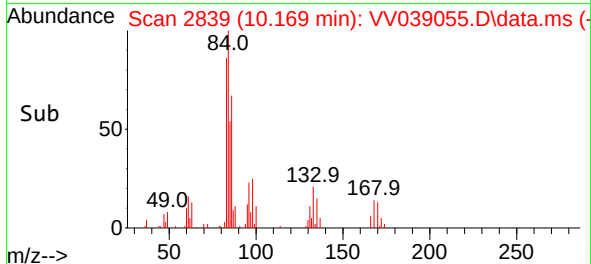
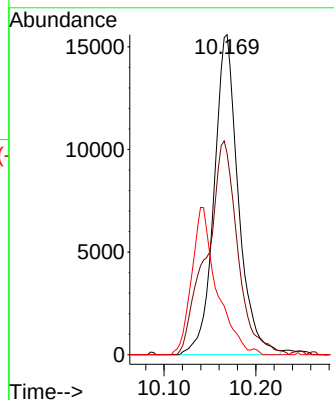
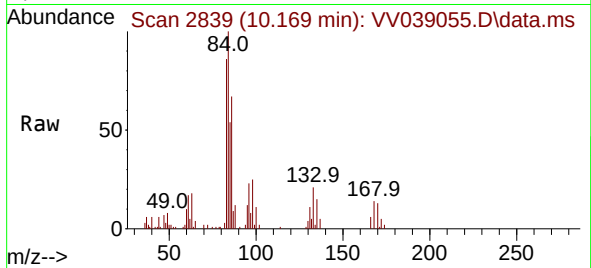




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.825 ug/L
 RT: 10.169 min Scan# 21
 Delta R.T. 0.007 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

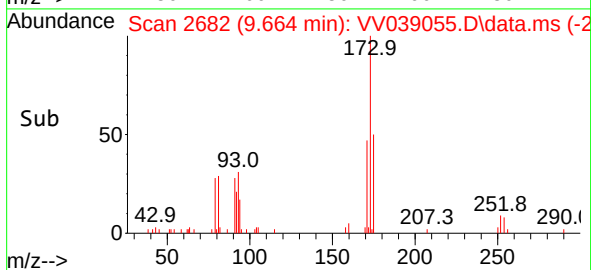
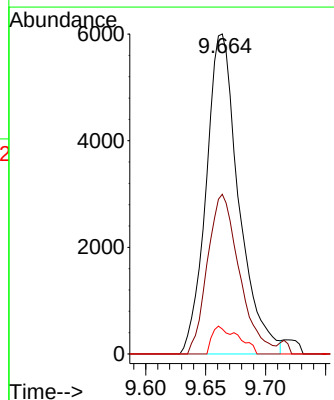
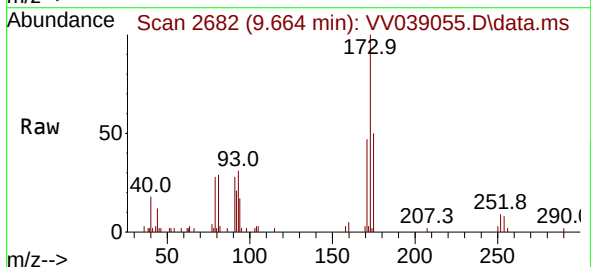
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-06

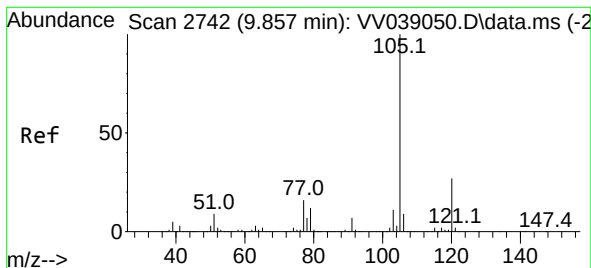
Tgt Ion: 83 Resp: 28688
 Ion Ratio Lower Upper
 83 100
 85 62.9 44.8 83.2
 131 12.6 7.6 11.4#



#59
 Bromoform
 Concen: 2.863 ug/L
 RT: 9.664 min Scan# 2682
 Delta R.T. 0.013 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

Tgt Ion: 173 Resp: 11344
 Ion Ratio Lower Upper
 173 100
 175 48.9 38.9 58.3
 254 4.2 5.9 8.9#





#60

Isopropylbenzene

Concen: 1.996 ug/L

RT: 9.860 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

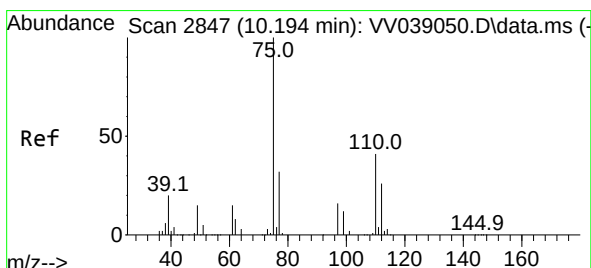
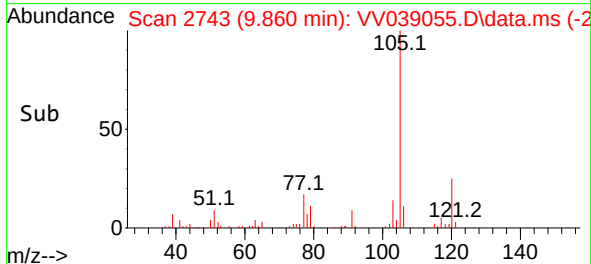
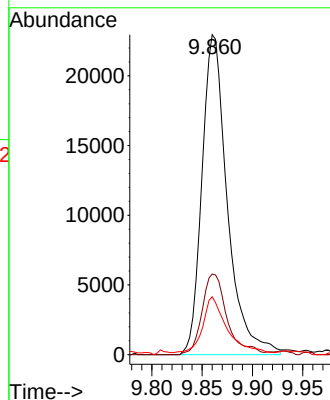
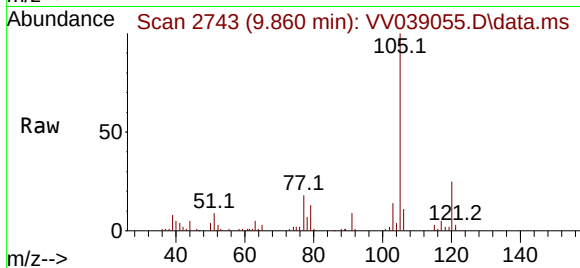
Tgt Ion:105 Resp: 40387

Ion Ratio Lower Upper

105 100

120 23.9 21.0 31.4

77 16.0 12.2 18.4



#61

1,2,3-Trichloropropane

Concen: 3.162 ug/L

RT: 10.204 min Scan# 2850

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

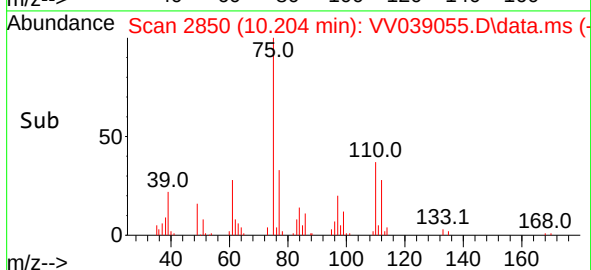
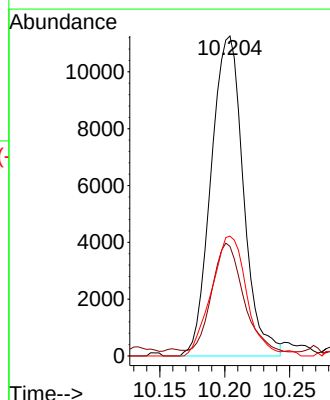
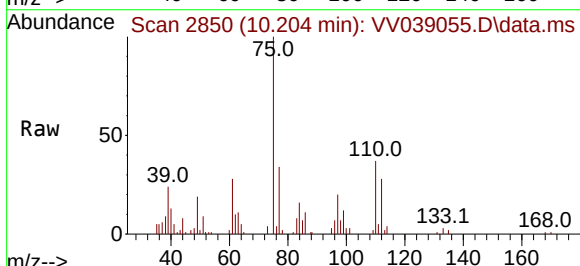
Tgt Ion: 75 Resp: 19534

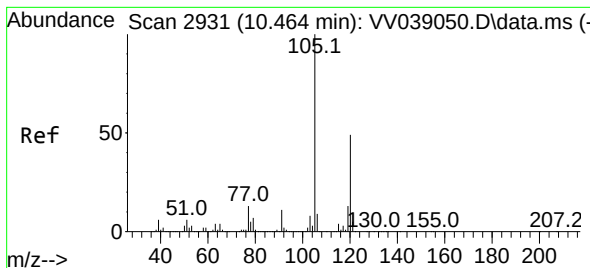
Ion Ratio Lower Upper

75 100

77 34.1 25.8 38.6

110 40.5 32.4 48.6





#62

1,3,5-Trimethylbenzene

Concen: 1.883 ug/L

RT: 10.471 min Scan# 2931

Delta R.T. 0.007 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

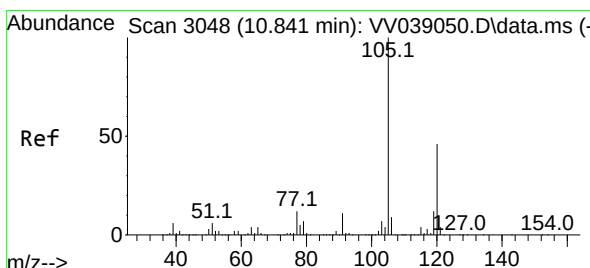
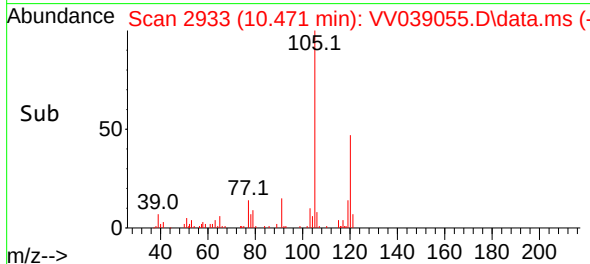
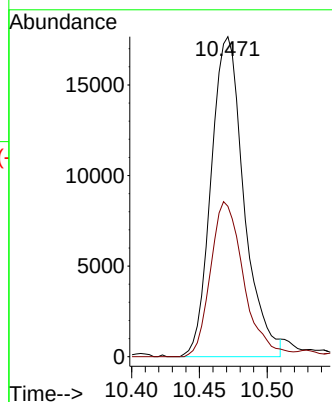
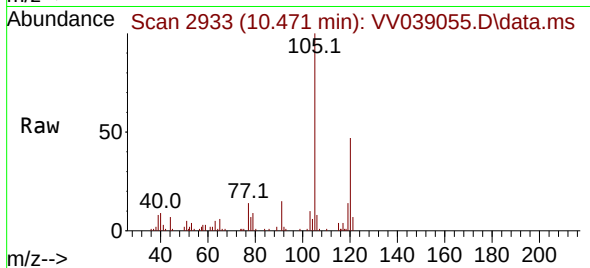
MDL-MED-SOIL-QT3-2025-06

Tgt Ion:105 Resp: 29807

Ion Ratio Lower Upper

105 100

120 49.0 39.2 58.8



#63

1,2,4-Trimethylbenzene

Concen: 1.826 ug/L

RT: 10.847 min Scan# 3050

Delta R.T. 0.010 min

Lab File: VV039055.D

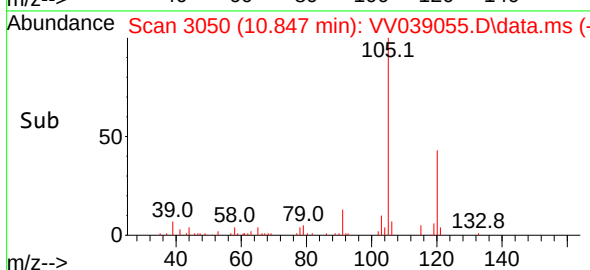
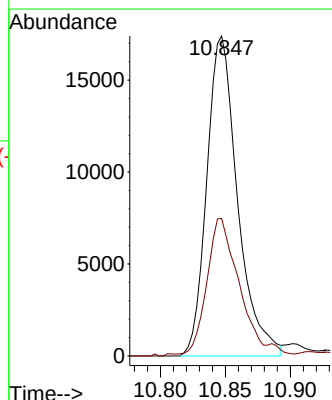
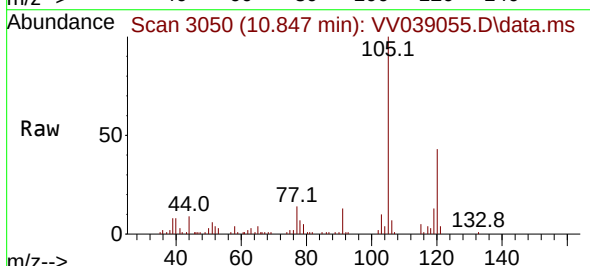
Acq: 12 Sep 2025 12:34

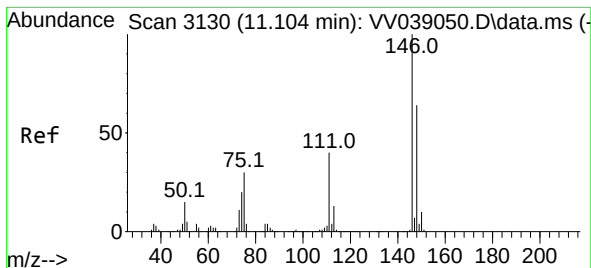
Tgt Ion:105 Resp: 28640

Ion Ratio Lower Upper

105 100

120 43.4 36.1 54.1





#64

1,3-Dichlorobenzene

Concen: 2.242 ug/L

RT: 11.114 min Scan# 3113

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

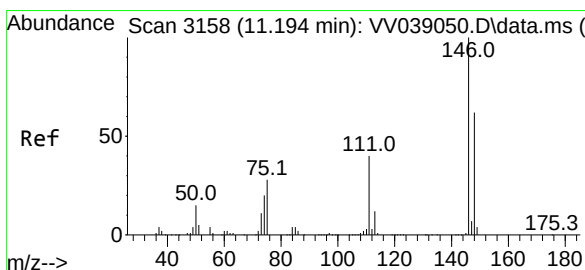
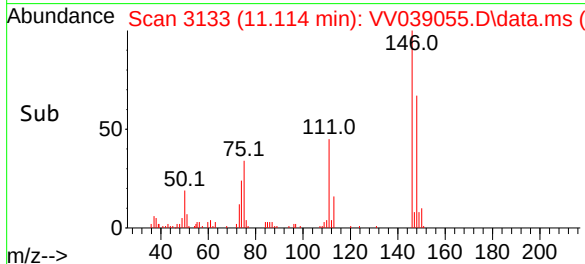
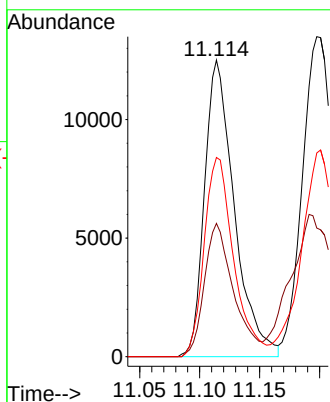
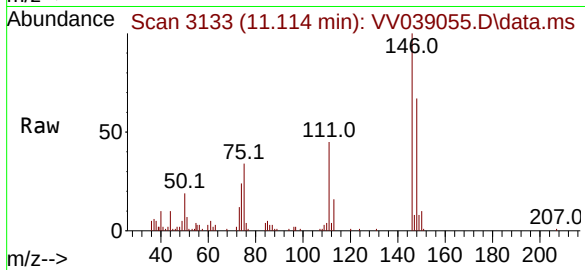
Tgt Ion:146 Resp: 21600

Ion Ratio Lower Upper

146 100

111 45.0 28.3 52.5

148 67.1 44.9 83.5



#65

1,4-Dichlorobenzene

Concen: 2.521 ug/L

RT: 11.198 min Scan# 3159

Delta R.T. 0.003 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

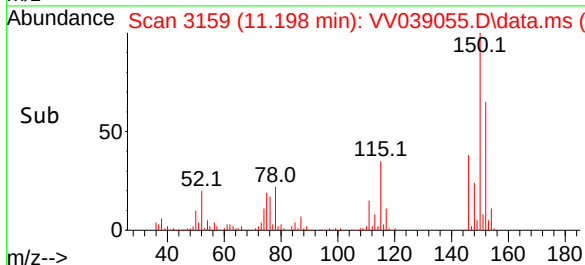
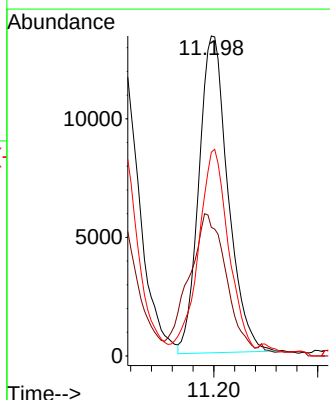
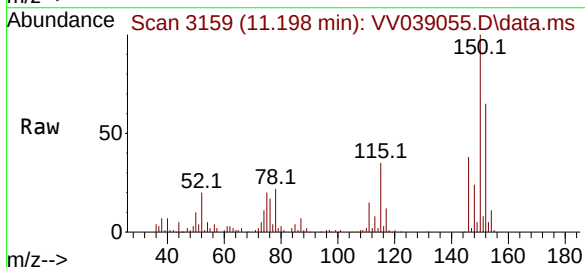
Tgt Ion:146 Resp: 25990

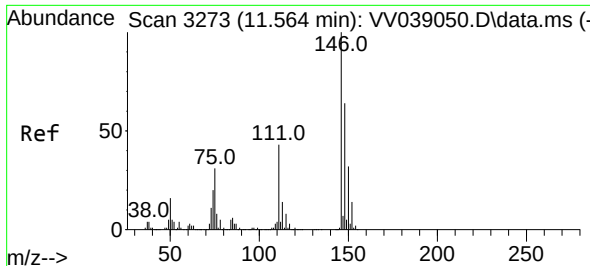
Ion Ratio Lower Upper

146 100

111 40.2 27.0 50.2

148 63.6 44.0 81.6

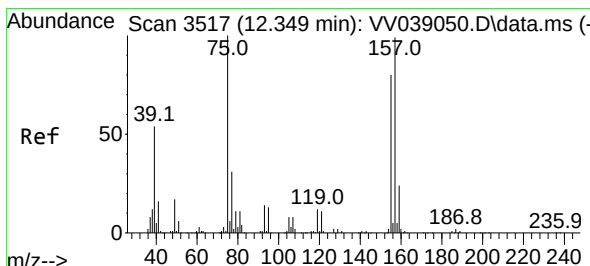
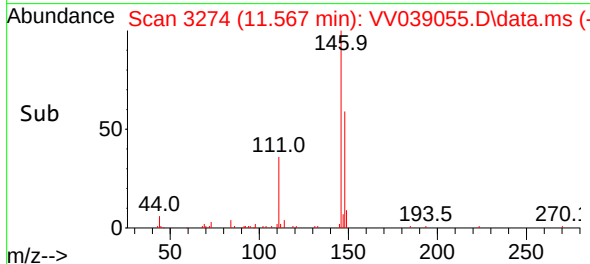
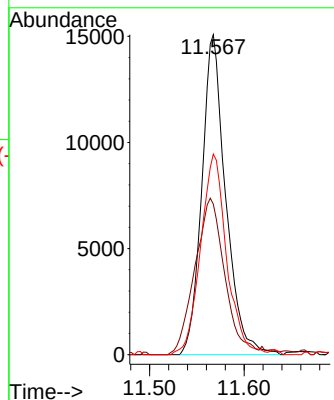
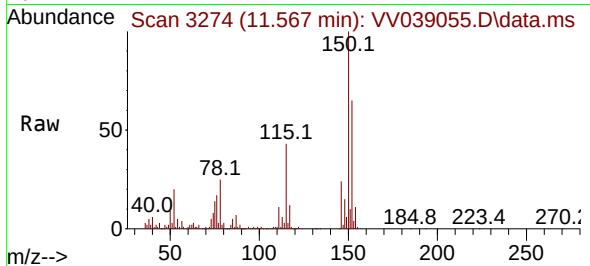




#67
 1,2-Dichlorobenzene
 Concen: 2.743 ug/L
 RT: 11.567 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

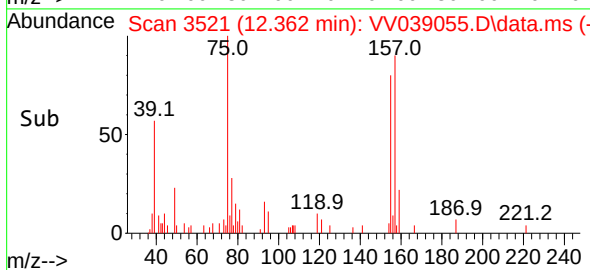
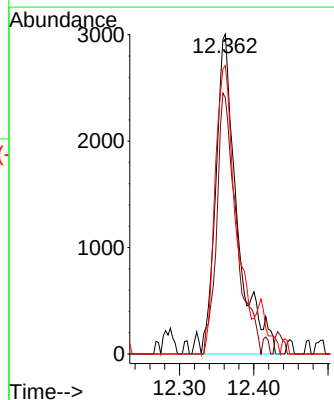
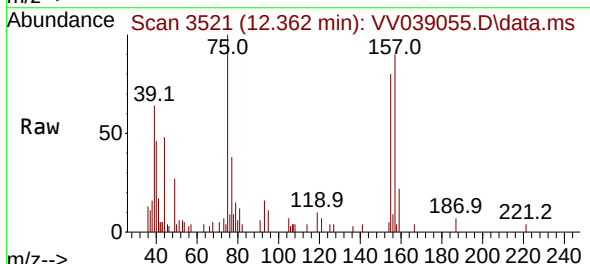
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT3-2025-06

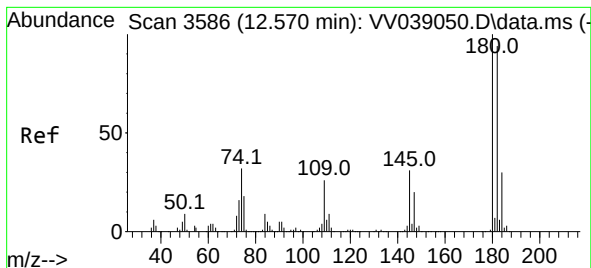
Tgt Ion:146 Resp: 26424
 Ion Ratio Lower Upper
 146 100
 111 47.0 33.4 50.2
 148 62.7 50.4 75.6



#68
 1,2-Dibromo-3-chloropropane
 Concen: 3.532 ug/L
 RT: 12.362 min Scan# 3521
 Delta R.T. 0.010 min
 Lab File: VV039055.D
 Acq: 12 Sep 2025 12:34

Tgt Ion: 75 Resp: 6127
 Ion Ratio Lower Upper
 75 100
 155 80.2 63.7 95.5
 157 90.1 82.2 123.2





#69

1,3,5-Trichlorobenzene

Concen: 2.269 ug/L

RT: 12.577 min Scan# 3586

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

Tgt Ion:180 Resp: 14111

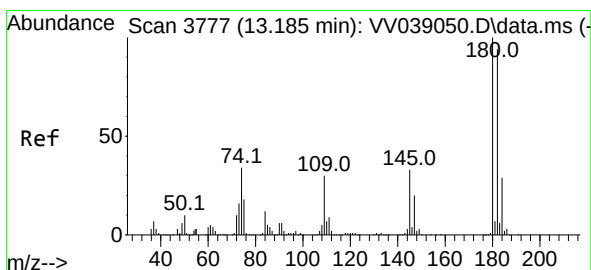
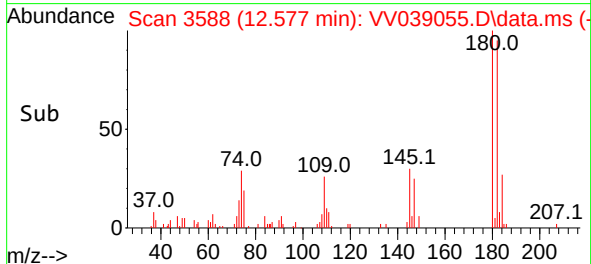
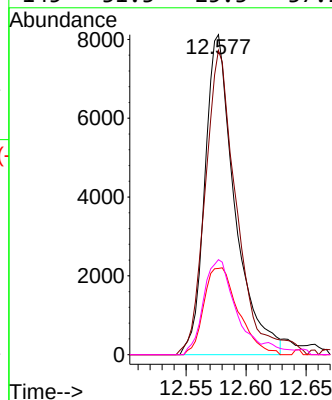
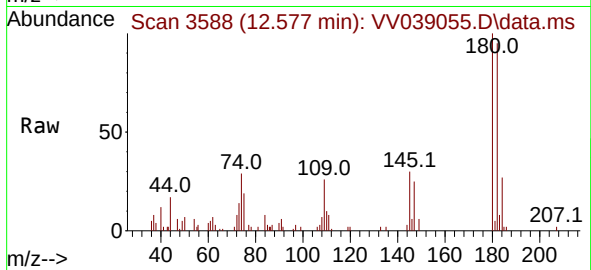
Ion Ratio Lower Upper

180 100

182 99.8 75.0 112.4

184 31.0 23.8 35.8

145 31.3 25.3 37.9



#70

1,2,4-trichlorobenzene

Concen: 2.046 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

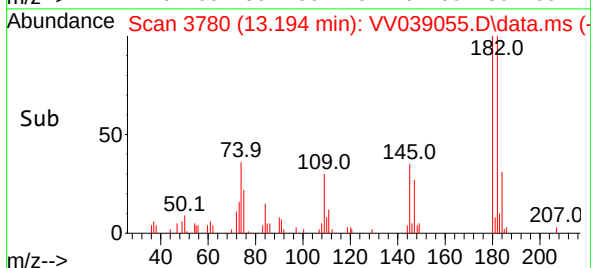
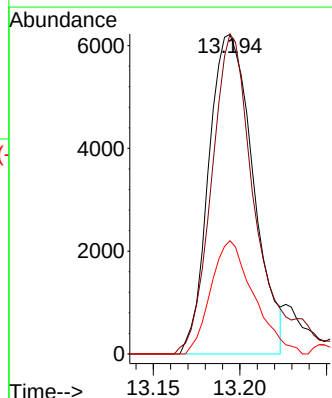
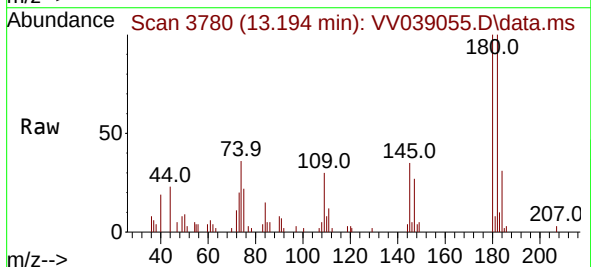
Tgt Ion:180 Resp: 11064

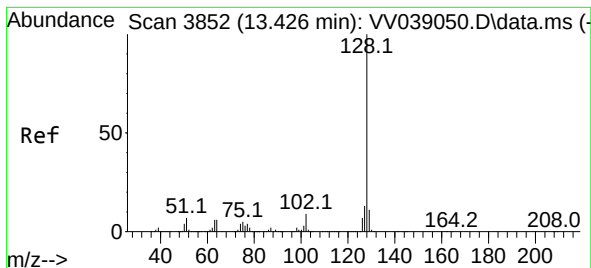
Ion Ratio Lower Upper

180 100

182 94.8 76.0 114.0

145 34.3 25.8 38.6





#71

Naphthalene

Concen: 1.849 ug/L

RT: 13.435 min Scan# 3855

Delta R.T. 0.010 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT3-2025-06

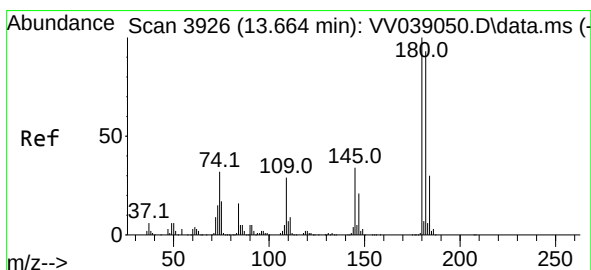
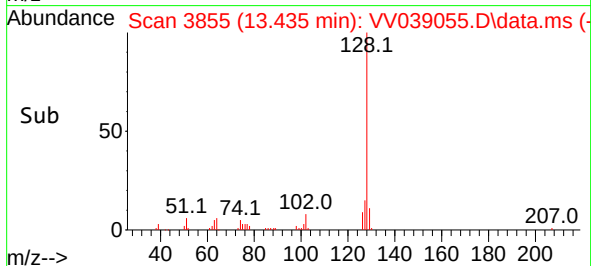
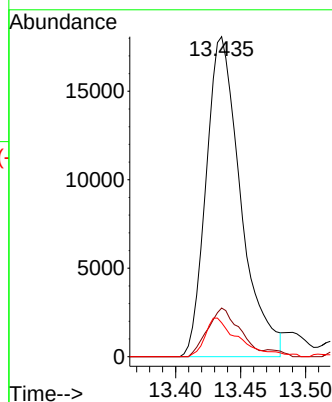
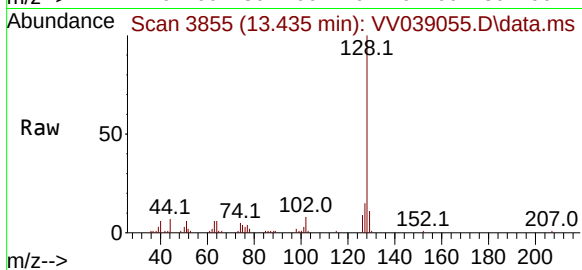
Tgt Ion:128 Resp: 33430

Ion Ratio Lower Upper

128 100

127 14.0 10.3 15.5

129 11.6 8.6 12.8



#72

1,2,3-Trichlorobenzene

Concen: 2.178 ug/L

RT: 13.670 min Scan# 3928

Delta R.T. 0.003 min

Lab File: VV039055.D

Acq: 12 Sep 2025 12:34

Tgt Ion:180 Resp: 12226

Ion Ratio Lower Upper

180 100

182 95.3 75.9 113.9

145 33.2 27.1 40.7

