

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071723\
 Data File : VU054797.D
 Acq On : 17 Jul 2023 16:56
 Operator : MD/SY
 Sample : 03573-05
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT3-2023-05

Quant Time: Jul 18 06:09:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM071723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 18 05:50:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	223932	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	213544	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	115722	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	84310	48.713	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 97.420%			
7) Chloroethane-d5	1.878	69	87090	50.302	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.600%			
11) 1,1-Dichloroethene-d2	2.554	63	88081	35.478	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 70.960%			
21) 2-Butanone-d5	4.618	46	115580	103.893	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 103.890%			
24) Chloroform-d	5.055	84	130194	48.324	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 96.640%			
26) 1,2-Dichloroethane-d4	5.695	65	81352	50.425	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 100.840%			
32) Benzene-d6	5.721	84	260755	51.262	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 102.520%			
36) 1,2-Dichloropropane-d6	6.685	67	89776	52.415	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 104.820%			
41) Toluene-d8	7.894	98	250262	51.631	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.260%			
43) trans-1,3-Dichloroprop...	8.177	79	41996	47.931	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 95.860%			
47) 2-Hexanone-d5	8.630	63	87800	108.443	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 108.440%			
56) 1,1,2,2-Tetrachloroeth...	10.753	84	160905	51.146	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 102.300%			
66) 1,2-Dichlorobenzene-d4	12.190	152	103427	52.011	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.380	85	2767	1.635	ug/L	97
3) Chloromethane	1.521	50	5315	2.754	ug/L	95
5) Vinyl chloride	1.602	62	5969	2.379	ug/L #	70
6) Bromomethane	1.824	94	2706	1.772	ug/L	90
8) Chloroethane	1.901	64	4023	2.317	ug/L	89
9) Trichlorofluoromethane	2.116	101	8552	2.129	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.560	101	3477	2.347	ug/L #	61
12) 1,1-Dichloroethene	2.283	96	165	0.118	ug/L	85
13) Acetone	2.627	43	4275	4.569	ug/L	85
14) Carbon disulfide	2.782	76	6696	1.646	ug/L #	94
15) Methyl Acetate	2.946	43	2234	1.431	ug/L #	86
16) Methylene chloride	3.036	84	4246	2.524	ug/L	90
17) trans-1,2-Dichloroethene	3.345	96	3031	2.102	ug/L	94
18) Methyl tert-butyl Ether	3.364	73	10793	2.162	ug/L #	79
19) 1,1-Dichloroethane	3.859	63	6335	2.302	ug/L	94
20) cis-1,2-Dichloroethene	4.656	96	3890	2.269	ug/L	94
22) 2-Butanone	4.717	43	3637	2.815	ug/L	86
23) Bromochloromethane	4.978	128	255	0.292	ug/L	92
25) Chloroform	5.074	83	8422	2.919	ug/L	96

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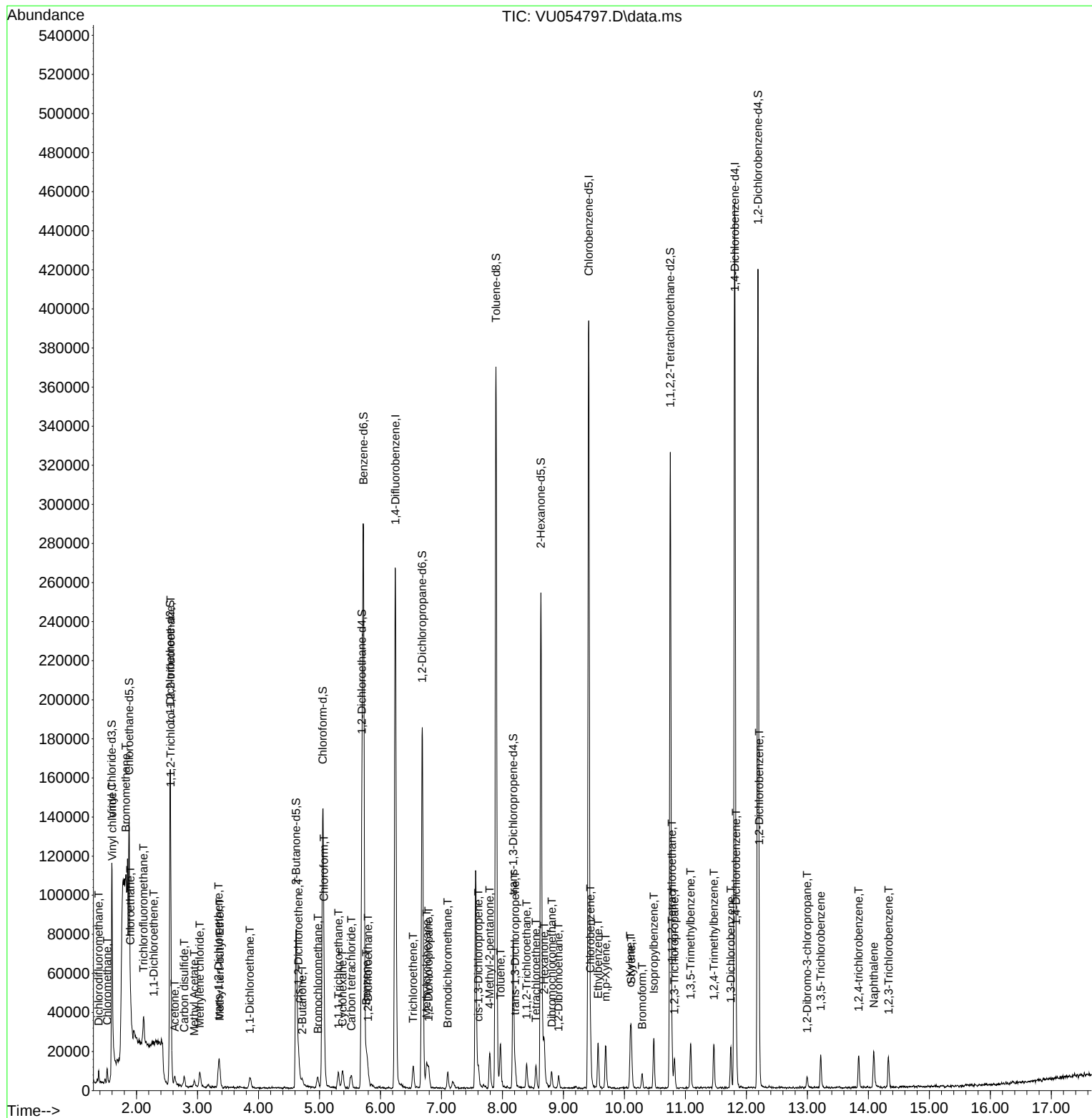
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.795	62	4490	2.049	ug/L	95
29) Cyclohexane	5.377	56	3674	1.565	ug/L #	79
30) 1,1,1-Trichloroethane	5.312	97	5440	2.295	ug/L #	93
31) Carbon tetrachloride	5.521	117	4355	2.128	ug/L #	33
33) Benzene	5.769	78	13212	2.159	ug/L	100
34) Trichloroethene	6.534	95	3719	2.388	ug/L	89
35) Methylcyclohexane	6.759	83	5418	2.129	ug/L #	82
37) 1,2-Dichloropropane	6.788	63	3931	2.336	ug/L #	92
38) Bromodichloromethane	7.103	83	5111	2.367	ug/L #	79
39) cis-1,3-Dichloropropene	7.608	75	5436	1.959	ug/L	96
40) 4-Methyl-2-pentanone	7.791	43	12393	4.810	ug/L #	97
42) Toluene	7.968	91	14343	2.095	ug/L	87
44) trans-1,3-Dichloropropene	8.206	75	5663	2.172	ug/L	97
45) 1,1,2-Trichloroethane	8.396	97	3578	2.086	ug/L	94
46) Tetrachloroethene	8.547	164	1834	1.536	ug/L	87
48) 2-Hexanone	8.685	43	14975	7.016	ug/L #	90
49) Dibromochloromethane	8.807	129	3303	1.869	ug/L	87
50) 1,2-Dibromoethane	8.920	107	4080	2.209	ug/L #	96
51) Chlorobenzene	9.444	112	10117	2.271	ug/L	88
52) Ethylbenzene	9.569	91	17143	2.166	ug/L	99
53) m,p-Xylene	9.692	106	5921	1.965	ug/L	93
54) o-Xylene	10.097	106	6095	1.991	ug/L	96
55) Styrene	10.113	104	11153	2.092	ug/L	83
57) 1,1,2,2-Tetrachloroethane	10.778	83	8609	2.542	ug/L #	94
59) Bromoform	10.290	173	3273	2.261	ug/L #	49
60) 1,2,3-Trichloropropane	10.820	75	5832	2.583	ug/L #	66
61) Isopropylbenzene	10.483	105	16488	2.156	ug/L #	88
62) 1,3,5-Trimethylbenzene	11.087	105	12992	2.063	ug/L	99
63) 1,2,4-Trimethylbenzene	11.466	105	12245	1.962	ug/L	100
64) 1,3-Dichlorobenzene	11.746	146	8352	2.355	ug/L	88
65) 1,4-Dichlorobenzene	11.833	146	9139	2.559	ug/L	93
67) 1,2-Dichlorobenzene	12.209	146	8964	2.516	ug/L #	85
68) 1,2-Dibromo-3-chloropr...	12.997	75	1298	2.151	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.219	180	5482	2.306	ug/L #	90
70) 1,2,4-trichlorobenzene	13.842	180	1399	0.682	ug/L #	1
71) Naphthalene	14.090	128	15989	2.374	ug/L #	94
72) 1,2,3-Trichlorobenzene	14.331	180	3805	1.904	ug/L #	70

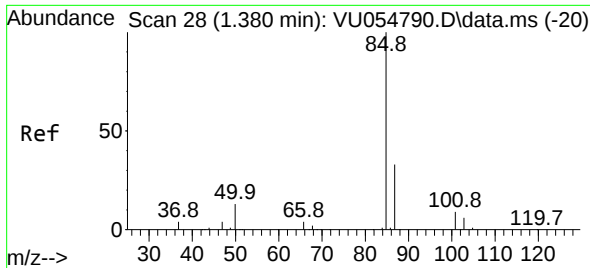
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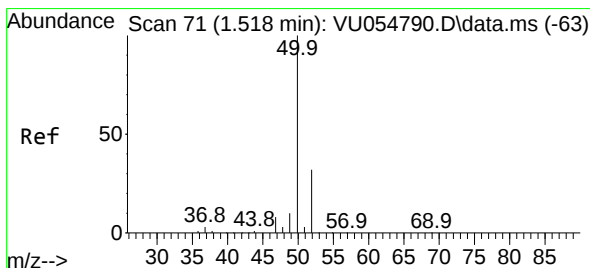
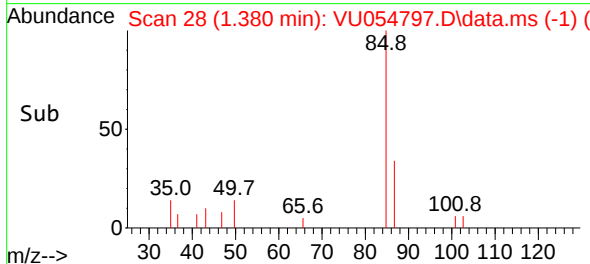
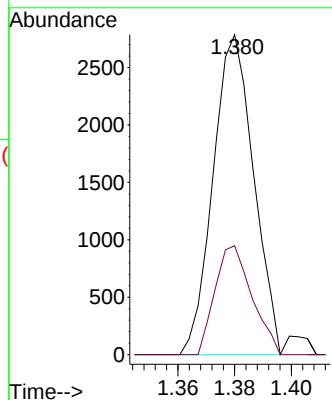
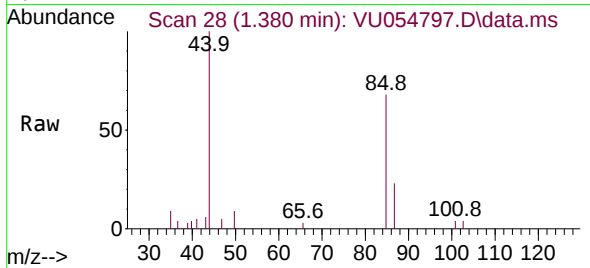




#2
 Dichlorodifluoromethane
 Concen: 1.635 ug/L
 RT: 1.380 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU054797.D
 Acq: 17 Jul 2023 16:56

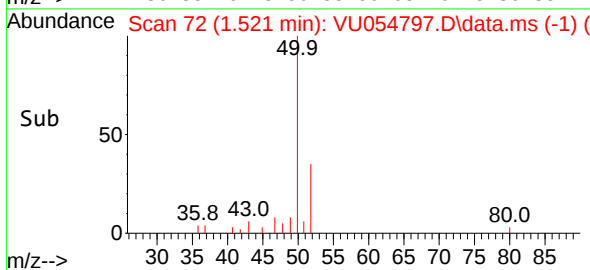
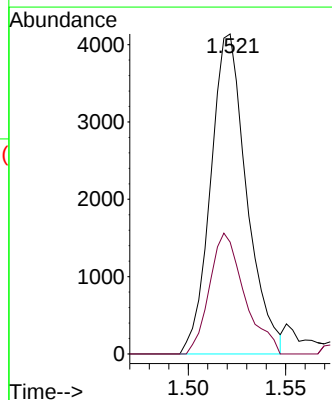
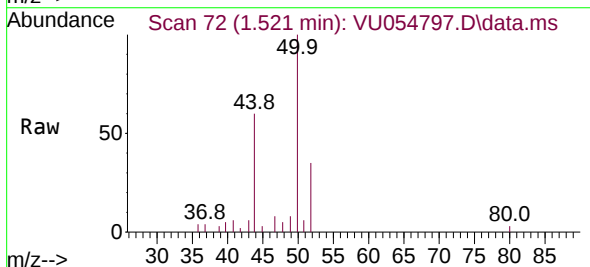
Instrument : MSVOA_U
 ClientSampleId : MDL-MED-SOIL-QT3-2023-05

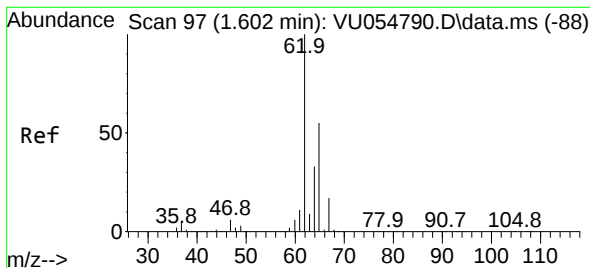
Tgt Ion: 85 Resp: 2767
 Ion Ratio Lower Upper
 85 100
 87 31.0 26.2 39.2



#3
 Chloromethane
 Concen: 2.754 ug/L
 RT: 1.521 min Scan# 72
 Delta R.T. 0.003 min
 Lab File: VU054797.D
 Acq: 17 Jul 2023 16:56

Tgt Ion: 50 Resp: 5315
 Ion Ratio Lower Upper
 50 100
 52 35.0 22.5 41.9





#5

Vinyl chloride

Concen: 2.379 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

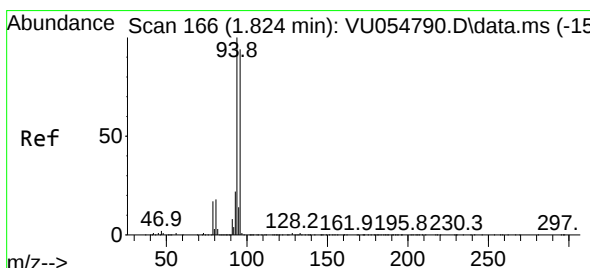
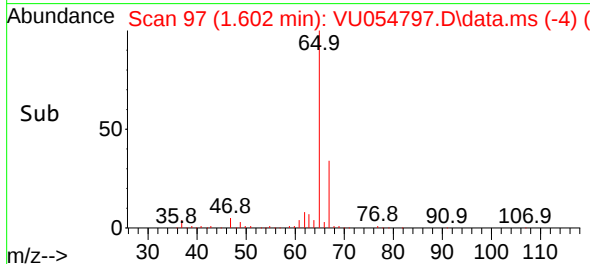
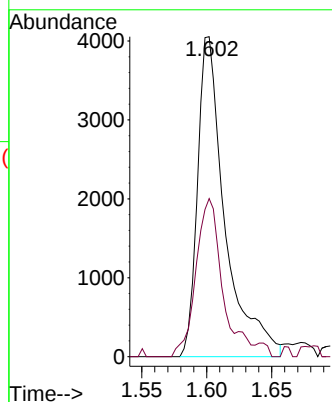
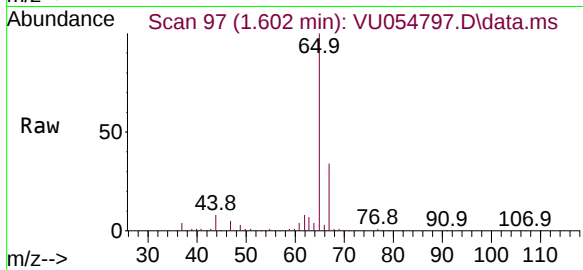
MDL-MED-SOIL-QT3-2023-05

Tgt Ion: 62 Resp: 5969

Ion Ratio Lower Upper

62 100

64 49.4 22.9 42.5#



#6

Bromomethane

Concen: 1.772 ug/L

RT: 1.824 min Scan# 166

Delta R.T. -0.000 min

Lab File: VU054797.D

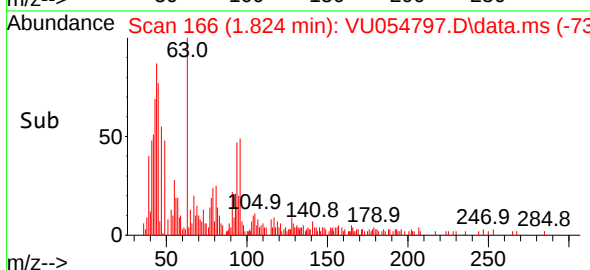
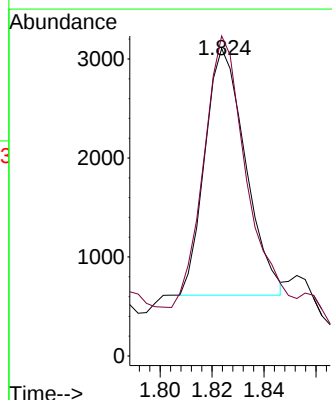
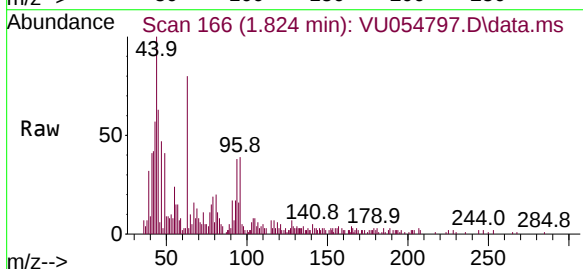
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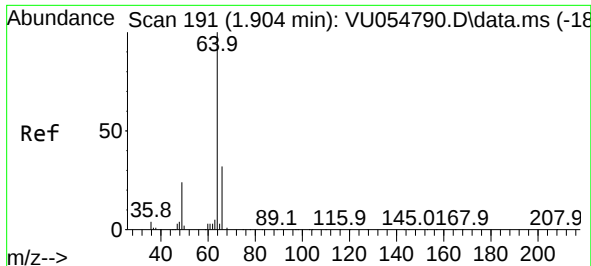
Tgt Ion: 94 Resp: 2706

Ion Ratio Lower Upper

94 100

96 104.1 66.1 122.8

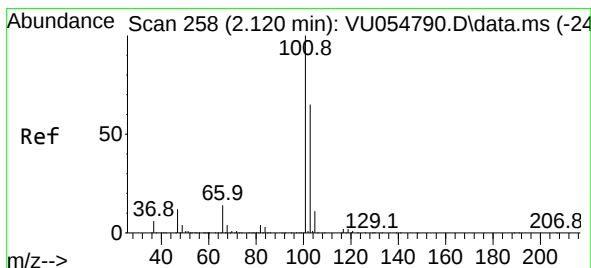
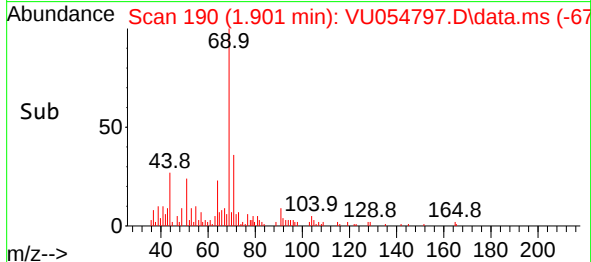
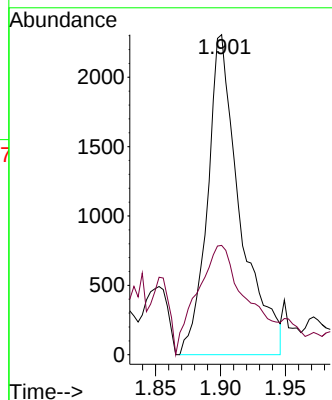
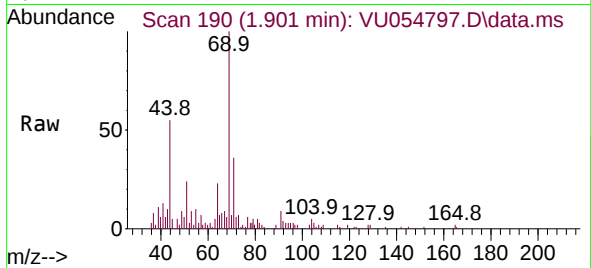




#8
Chloroethane
Concen: 2.317 ug/L
RT: 1.901 min Scan# 19
Delta R.T. -0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

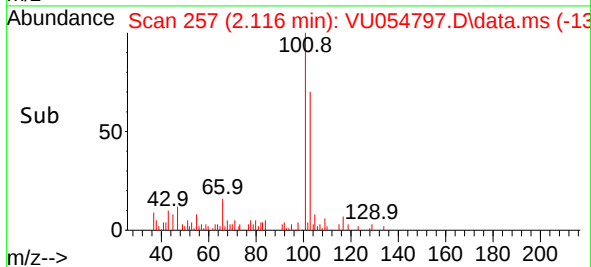
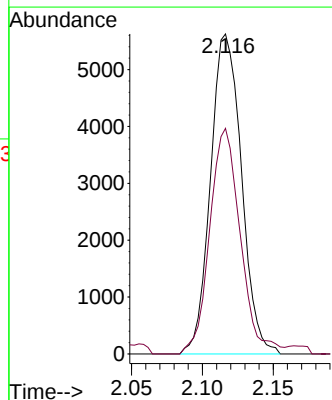
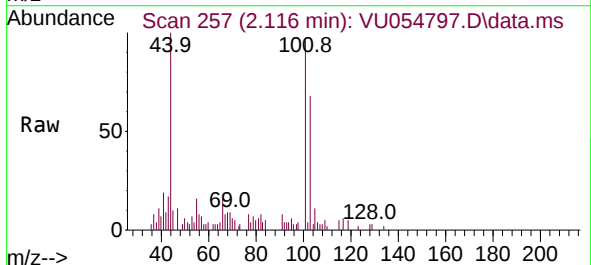
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MDL-MED-SOIL-QT3-2023-05

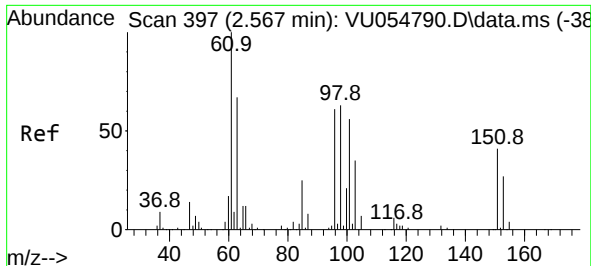
Tgt Ion: 64 Resp: 4023
Ion Ratio Lower Upper
64 100
66 26.6 22.8 42.4



#9
Trichlorofluoromethane
Concen: 2.129 ug/L
RT: 2.116 min Scan# 257
Delta R.T. -0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion:101 Resp: 8552
Ion Ratio Lower Upper
101 100
103 68.3 52.2 78.2

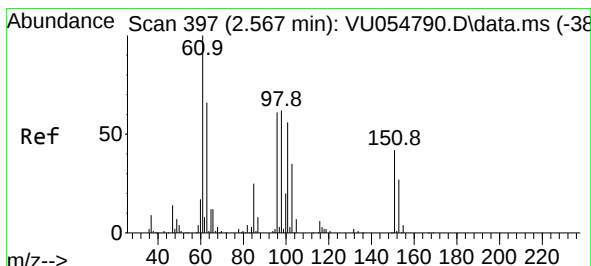
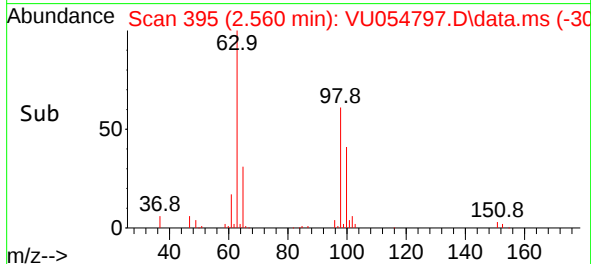
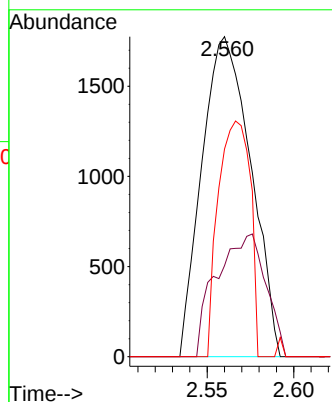
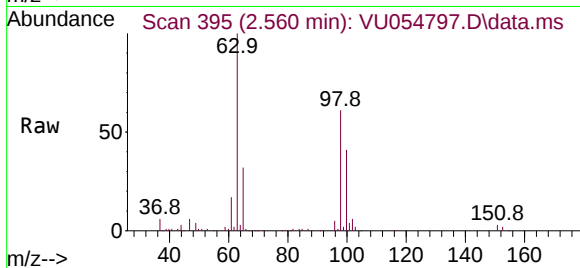




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.347 ug/L
RT: 2.560 min Scan# 31
Delta R.T. -0.007 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

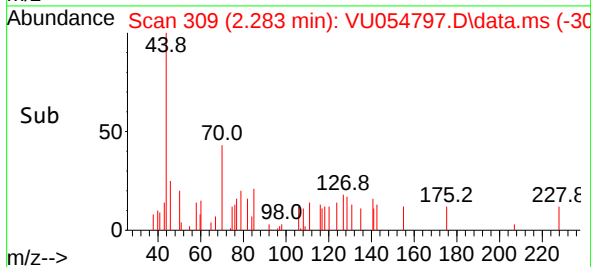
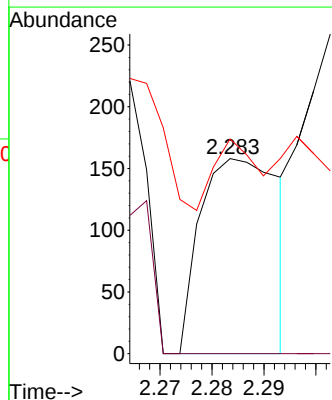
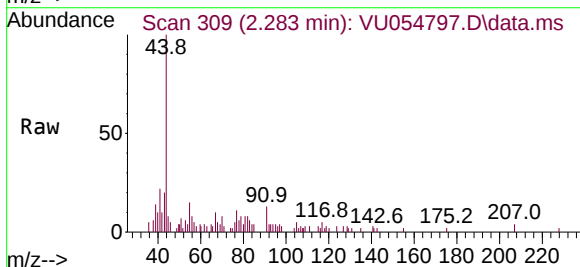
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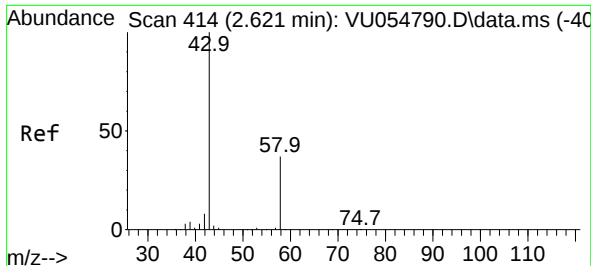
Tgt Ion:101 Resp: 3477
Ion Ratio Lower Upper
101 100
85 8.7 35.3 52.9#
151 48.0 58.2 87.4#



#12
1,1-Dichloroethene
Concen: 0.118 ug/L
RT: 2.283 min Scan# 309
Delta R.T. -0.283 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 96 Resp: 165
Ion Ratio Lower Upper
96 100
61 130.4 115.0 213.6
63 110.1 77.6 144.0

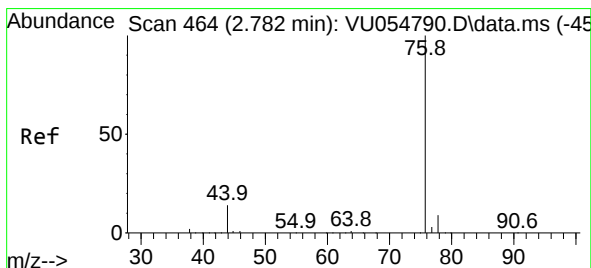
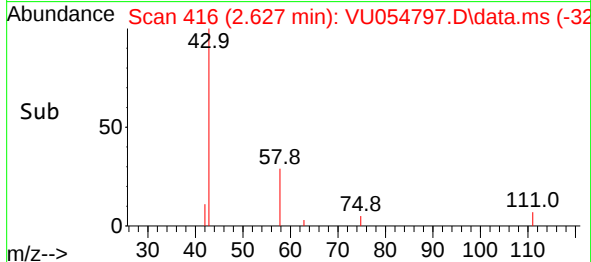
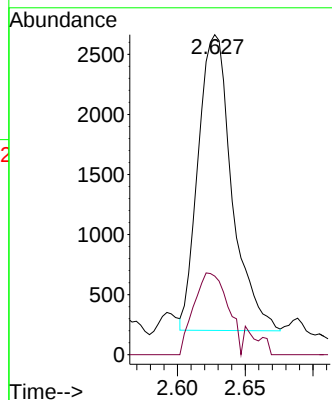
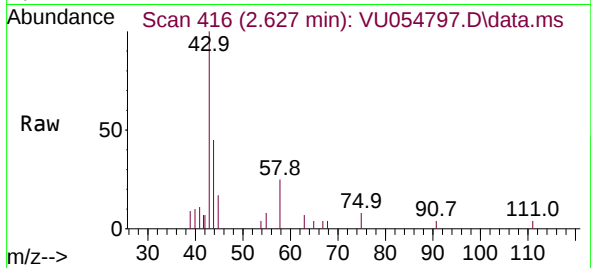




#13
Acetone
Concen: 4.569 ug/L
RT: 2.627 min Scan# 416
Delta R.T. 0.006 min
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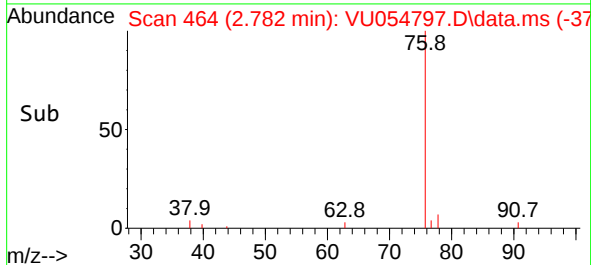
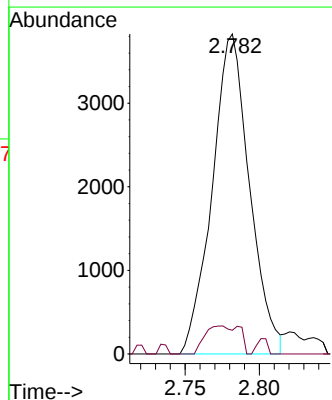
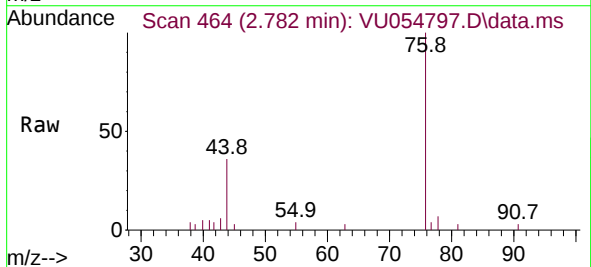
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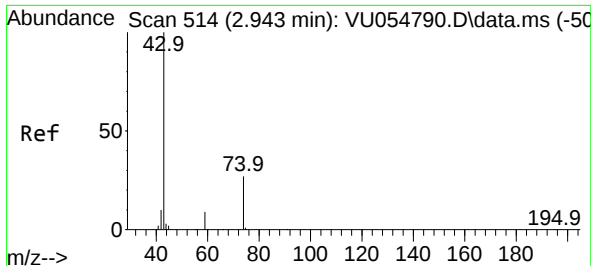
Tgt Ion: 43 Resp: 4275
Ion Ratio Lower Upper
43 100
58 27.5 0.0 72.4



#14
Carbon disulfide
Concen: 1.646 ug/L
RT: 2.782 min Scan# 464
Delta R.T. -0.000 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 76 Resp: 6696
Ion Ratio Lower Upper
76 100
78 7.1 7.4 11.0#

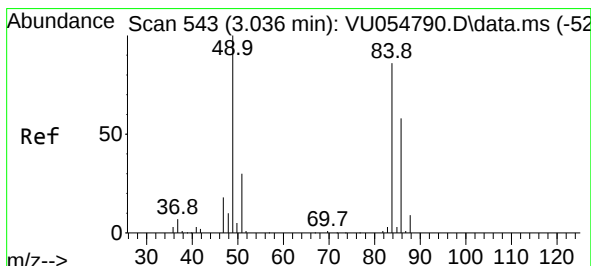
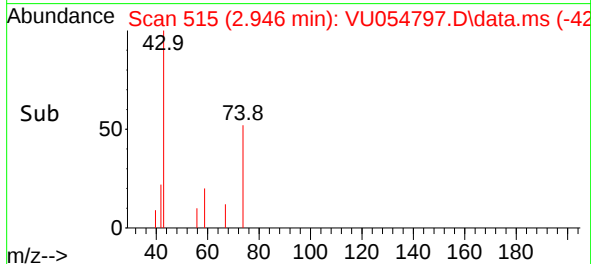
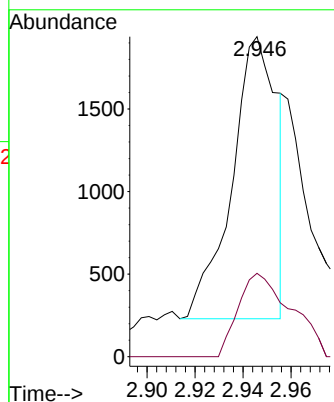
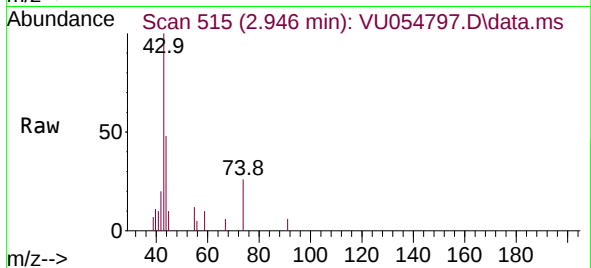




#15
Methyl Acetate
Concen: 1.431 ug/L
RT: 2.946 min Scan# 514
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

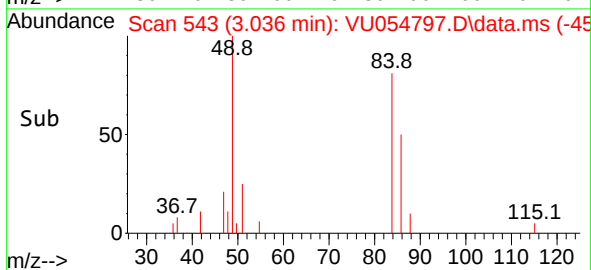
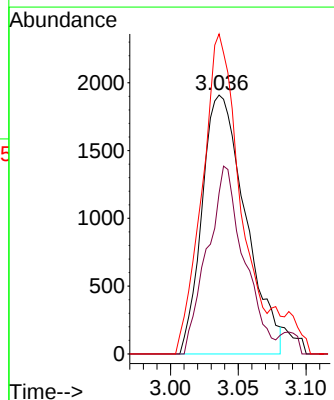
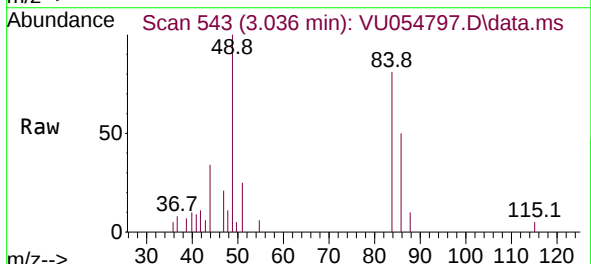
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

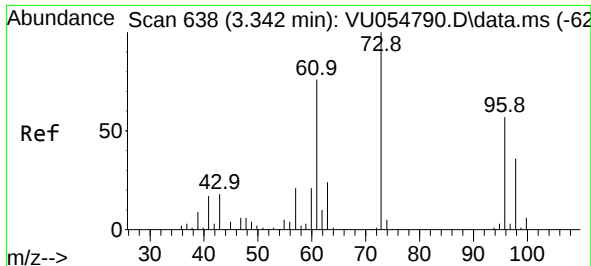
Tgt Ion: 43 Resp: 2234
Ion Ratio Lower Upper
43 100
74 34.6 21.8 32.8#



#16
Methylene chloride
Concen: 2.524 ug/L
RT: 3.036 min Scan# 543
Delta R.T. -0.000 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 84 Resp: 4246
Ion Ratio Lower Upper
84 100
86 62.1 46.8 87.0
49 129.3 81.3 151.1

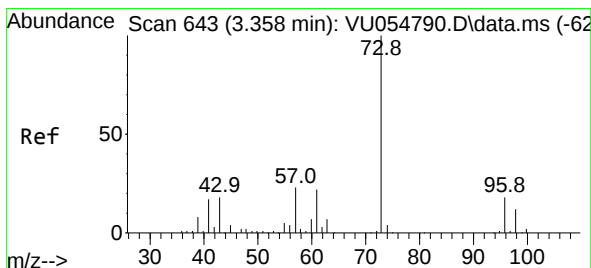
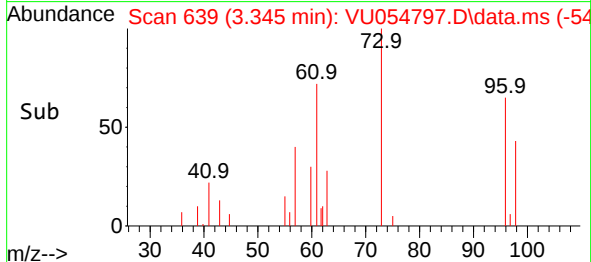
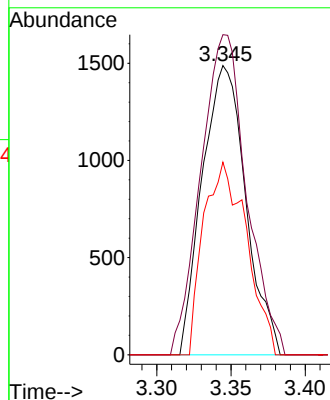
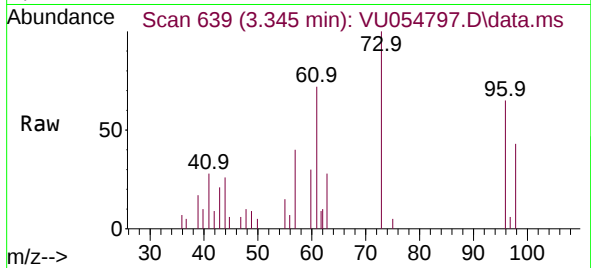




#17
trans-1,2-Dichloroethene
Concen: 2.102 ug/L
RT: 3.345 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

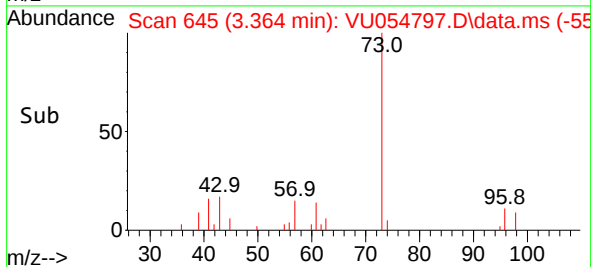
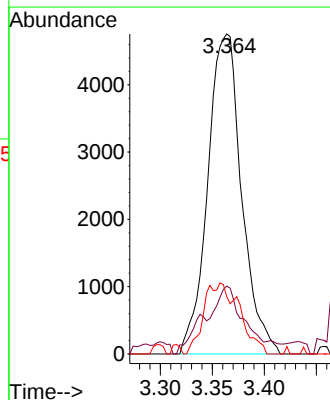
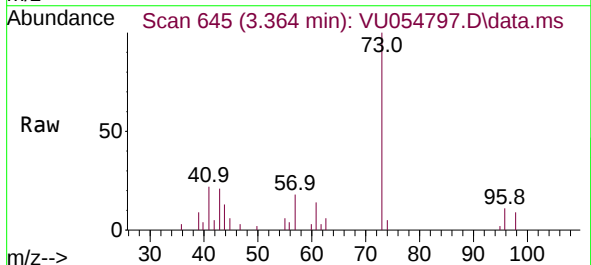
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

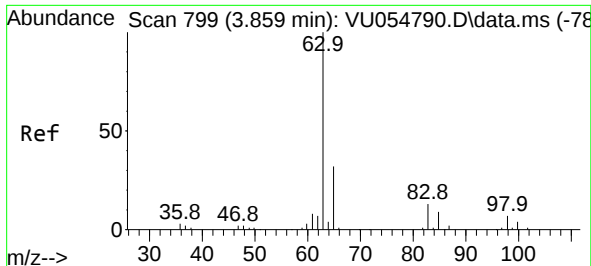
Tgt Ion: 96 Resp: 3031
Ion Ratio Lower Upper
96 100
61 125.3 93.2 173.2
98 66.6 44.7 82.9



#18
Methyl tert-butyl Ether
Concen: 2.162 ug/L
RT: 3.364 min Scan# 645
Delta R.T. 0.006 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 73 Resp: 10793
Ion Ratio Lower Upper
73 100
43 13.4 14.3 21.5#
57 7.5 17.4 26.0#





#19

1,1-Dichloroethane

Concen: 2.302 ug/L

RT: 3.859 min Scan# 799

Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05

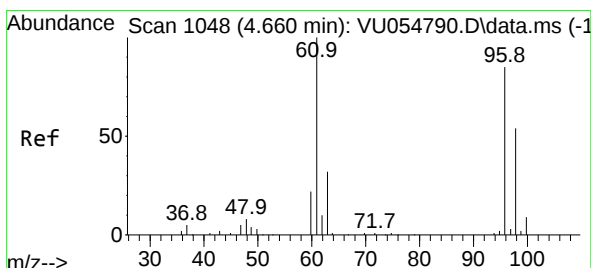
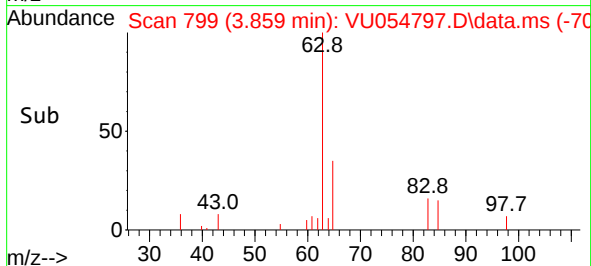
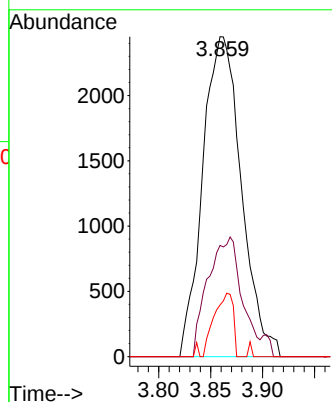
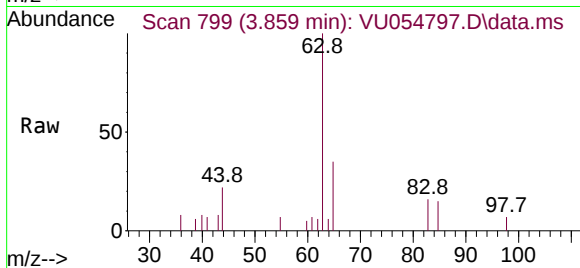
Tgt Ion: 63 Resp: 6335

Ion Ratio Lower Upper

63 100

65 34.8 22.1 41.1

83 16.1 9.4 17.4



#20

cis-1,2-Dichloroethene

Concen: 2.269 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. -0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

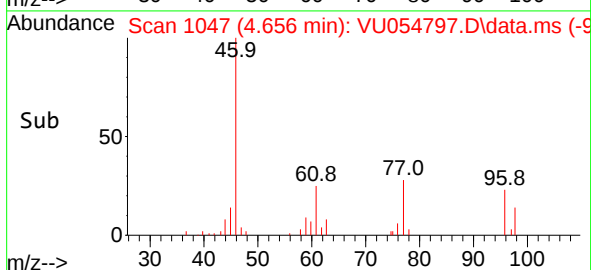
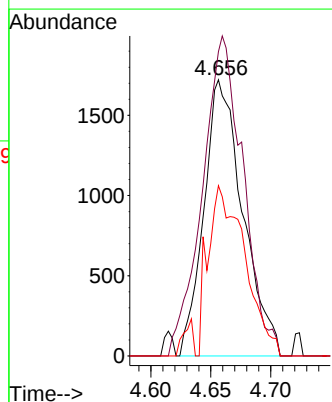
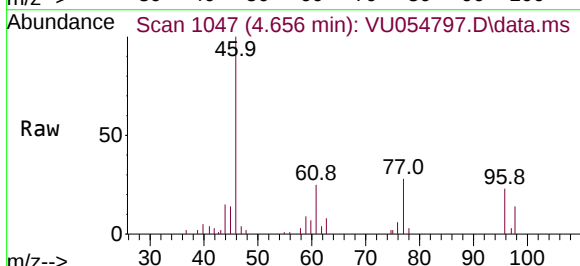
Tgt Ion: 96 Resp: 3890

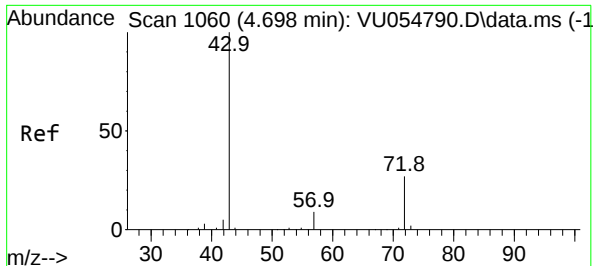
Ion Ratio Lower Upper

96 100

61 110.2 82.7 153.7

98 61.6 44.4 82.5

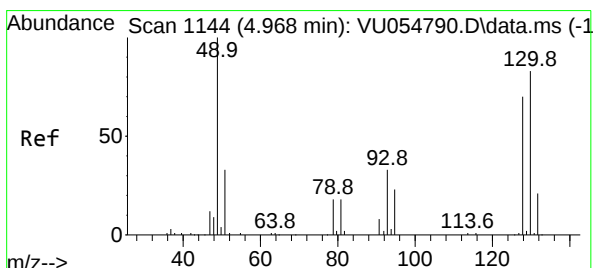
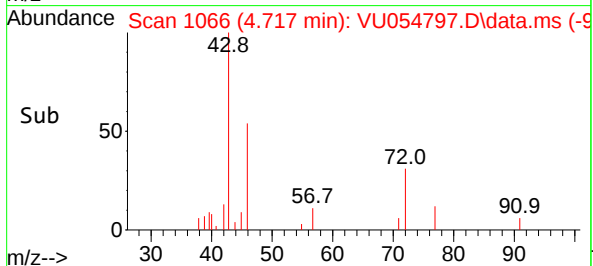
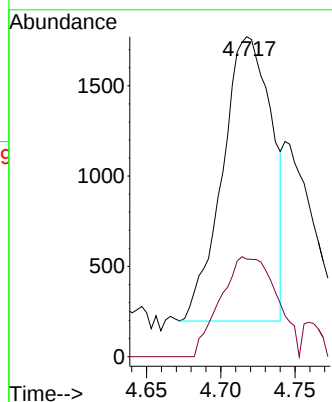
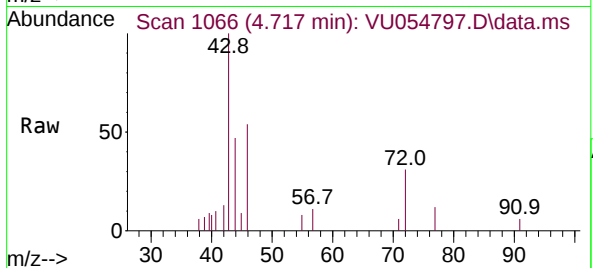




#22
2-Butanone
Concen: 2.815 ug/L
RT: 4.717 min Scan# 1066
Delta R.T. 0.019 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

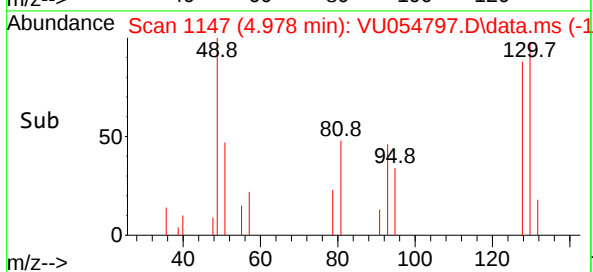
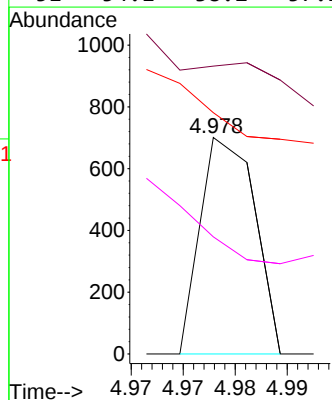
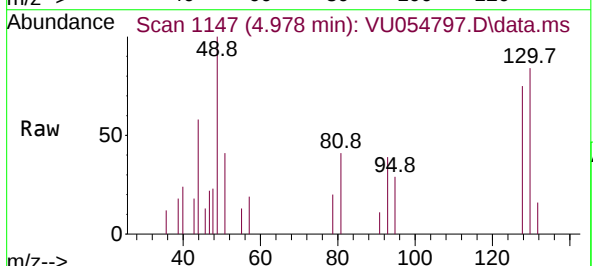
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

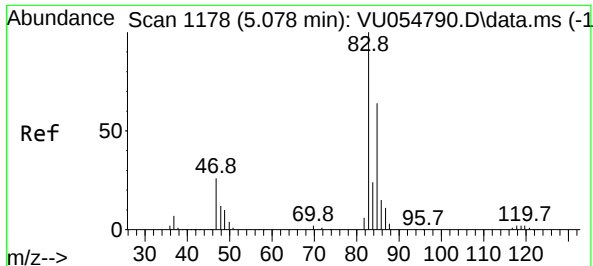
Tgt Ion: 43 Resp: 3637
Ion Ratio Lower Upper
43 100
72 22.8 15.2 45.6



#23
Bromochloromethane
Concen: 0.292 ug/L
RT: 4.978 min Scan# 1147
Delta R.T. 0.009 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 128 Resp: 255
Ion Ratio Lower Upper
128 100
49 133.0 100.6 186.8
130 111.4 83.0 154.1
51 54.1 38.2 57.2





#25

Chloroform

Concen: 2.919 ug/L

RT: 5.074 min Scan# 1178

Delta R.T. -0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

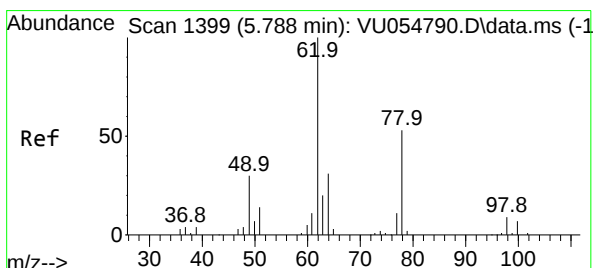
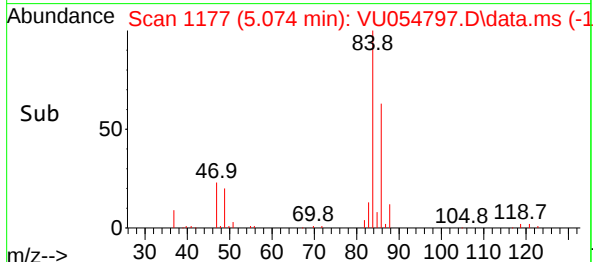
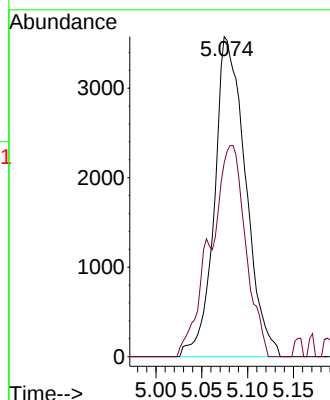
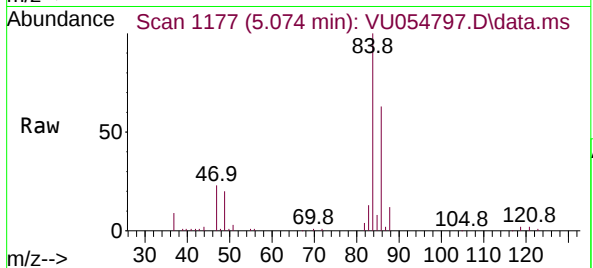
MDL-MED-SOIL-QT3-2023-05

Tgt Ion: 83 Resp: 8422

Ion Ratio Lower Upper

83 100

85 60.6 44.7 82.9



#27

1,2-Dichloroethane

Concen: 2.049 ug/L

RT: 5.795 min Scan# 1401

Delta R.T. 0.007 min

Lab File: VU054797.D

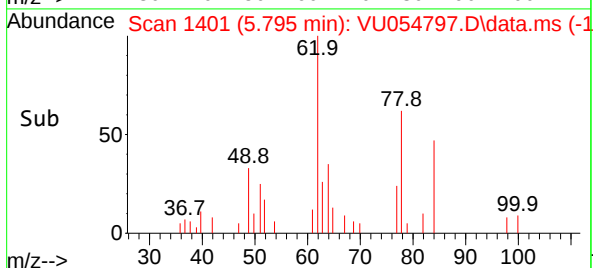
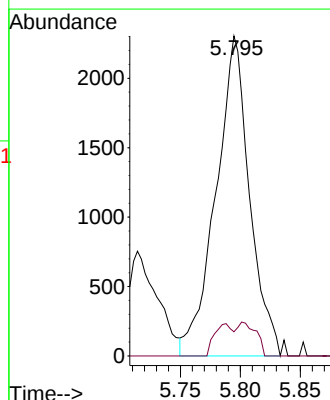
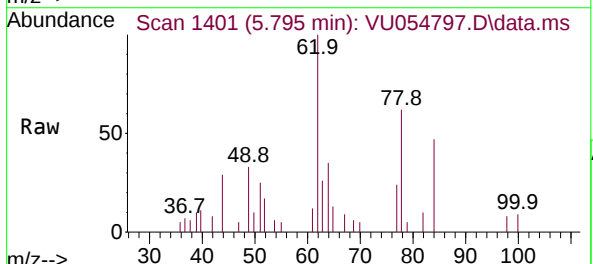
Acq: 17 Jul 2023 16:56

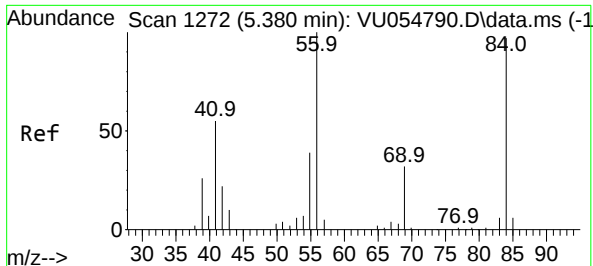
Tgt Ion: 62 Resp: 4490

Ion Ratio Lower Upper

62 100

98 7.5 7.5 11.3





#29

Cyclohexane

Concen: 1.565 ug/L

RT: 5.377 min Scan# 1271

Delta R.T. -0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

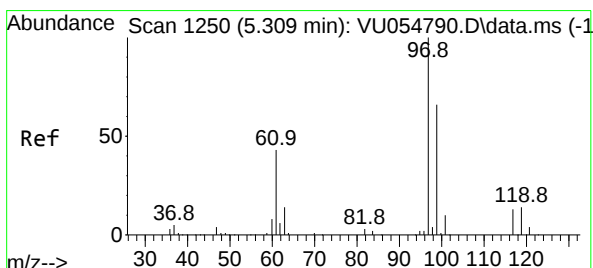
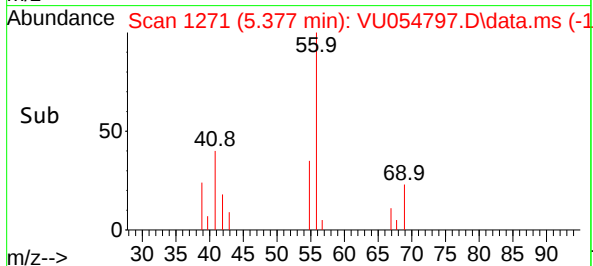
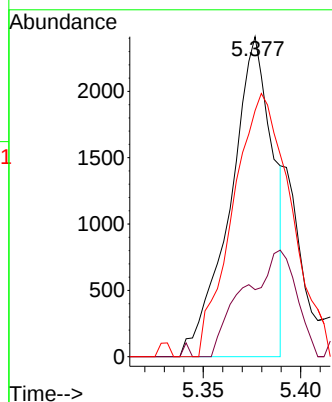
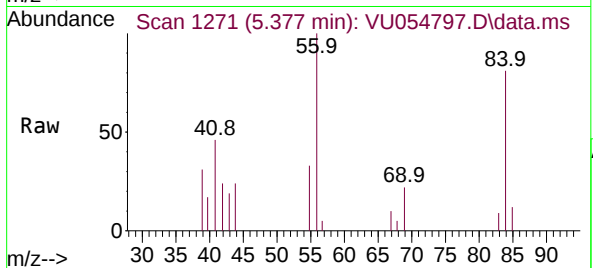
Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05

Tgt Ion:	56	Resp:	3674
Ion	Ratio	Lower	Upper
56	100		
69	15.0	25.8	38.8#
84	111.8	75.9	113.9



#30

1,1,1-Trichloroethane

Concen: 2.295 ug/L

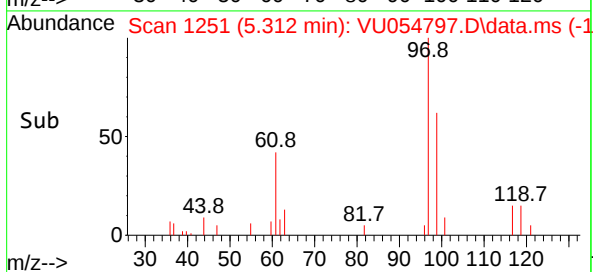
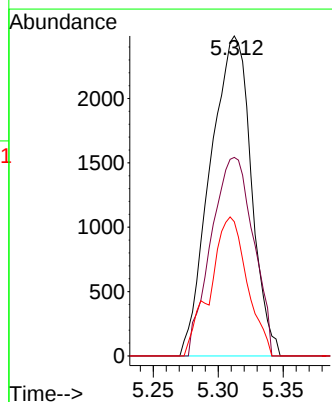
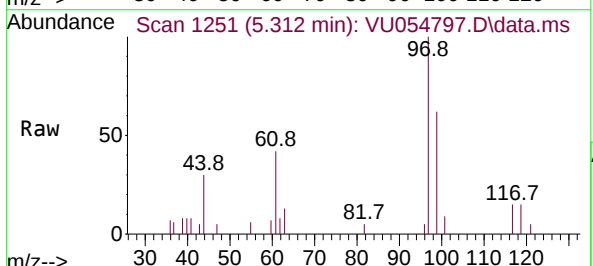
RT: 5.312 min Scan# 1251

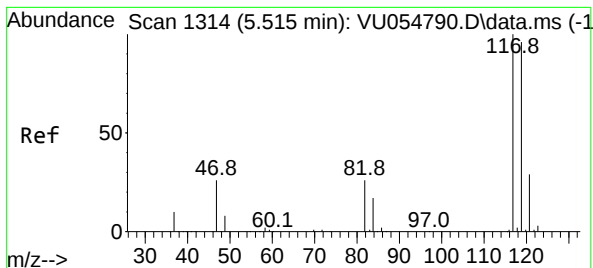
Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Tgt Ion:	97	Resp:	5440
Ion	Ratio	Lower	Upper
97	100		
99	63.9	52.0	78.0
61	32.5	34.3	51.5#





#31

Carbon tetrachloride

Concen: 2.128 ug/L

RT: 5.521 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

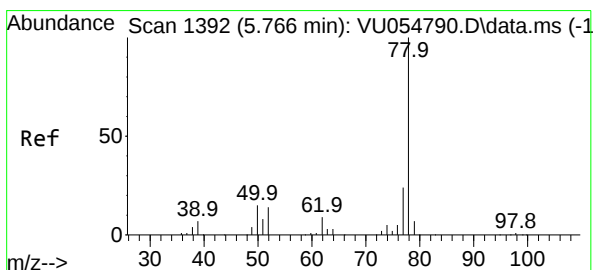
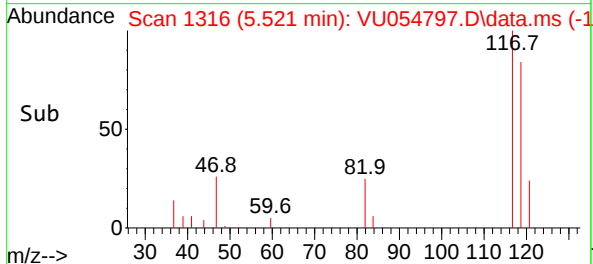
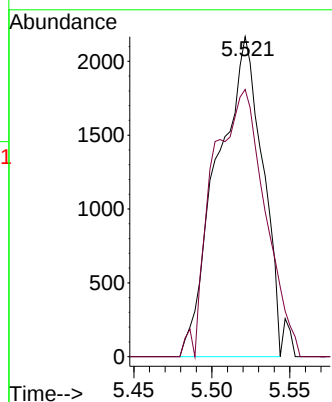
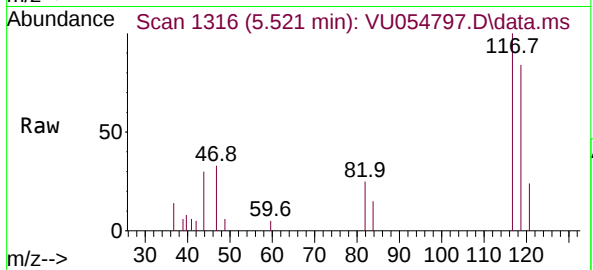
MDL-MED-SOIL-QT3-2023-05

Tgt Ion:117 Resp: 4355

Ion Ratio Lower Upper

117 100

119 31.3 77.4 116.2#



#33

Benzene

Concen: 2.159 ug/L

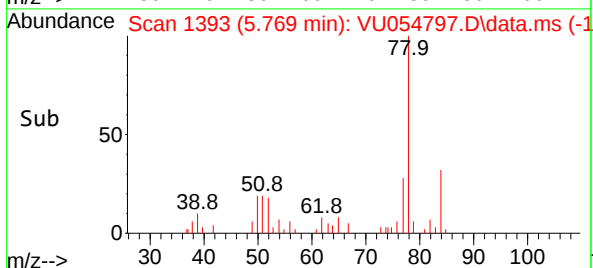
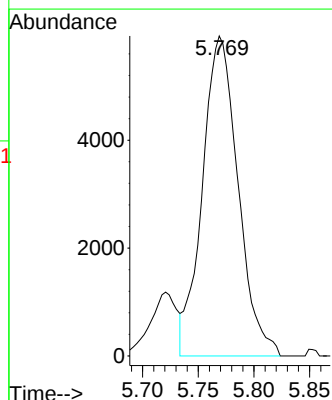
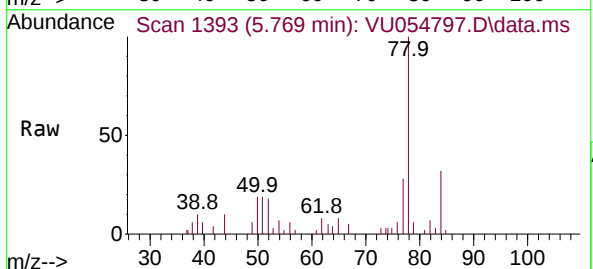
RT: 5.769 min Scan# 1393

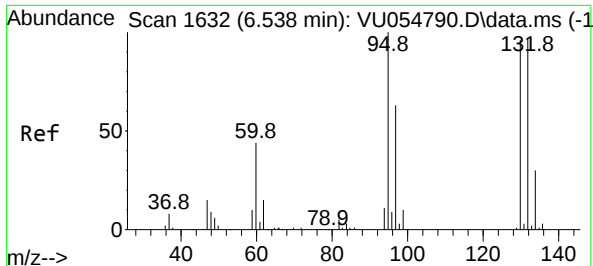
Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Tgt Ion: 78 Resp: 13212



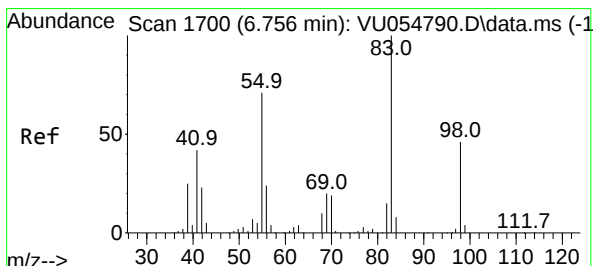
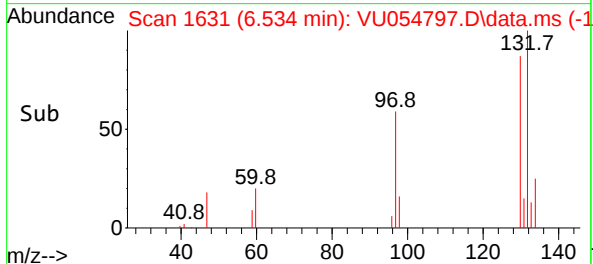
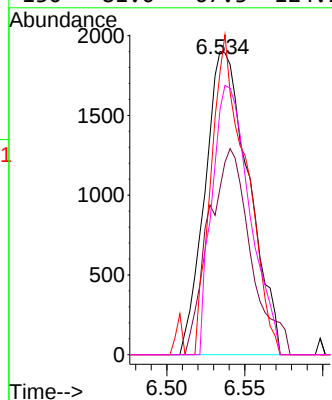
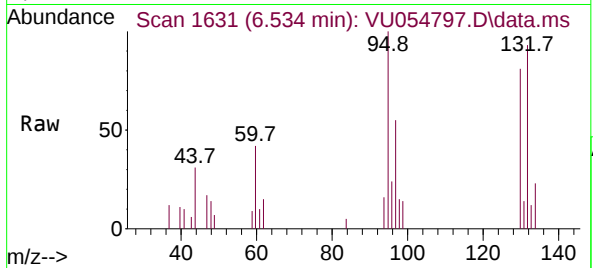


#34
Trichloroethene
Concen: 2.388 ug/L
RT: 6.534 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

Tgt Ion: 95 Resp: 3719

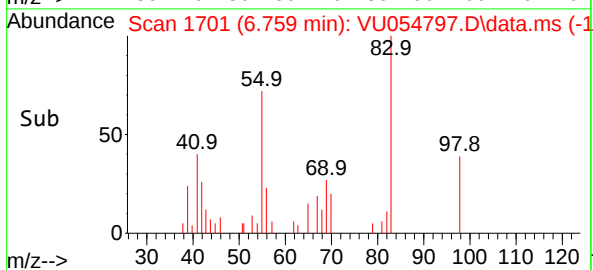
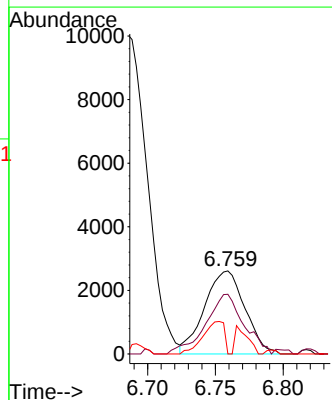
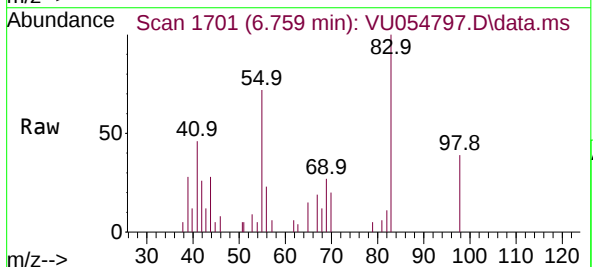
Ion	Ratio	Lower	Upper
95	100		
97	55.0	44.0	81.8
132	104.9	67.9	126.1
130	81.0	67.3	124.9

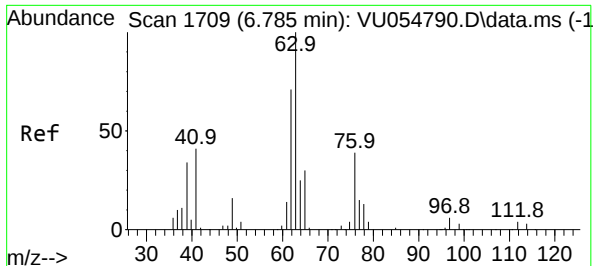


#35
Methylcyclohexane
Concen: 2.129 ug/L
RT: 6.759 min Scan# 1701
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 83 Resp: 5418

Ion	Ratio	Lower	Upper
83	100		
55	67.5	55.8	83.8
98	20.7	38.6	58.0

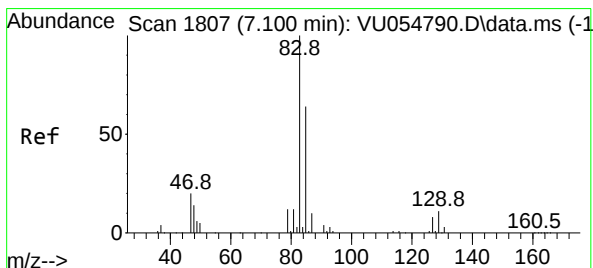
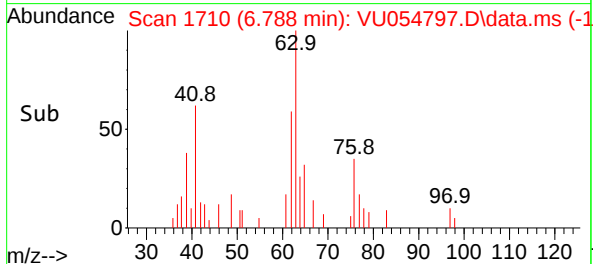
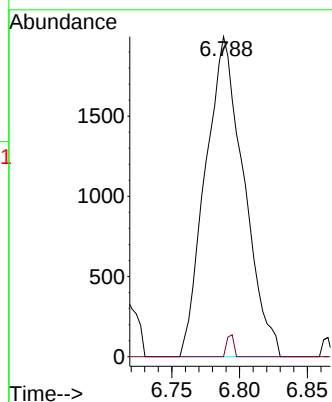
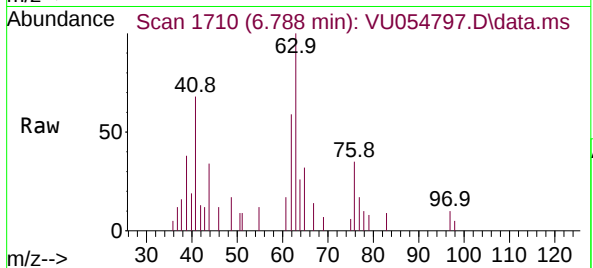




#37
1,2-Dichloropropane
Concen: 2.336 ug/L
RT: 6.788 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

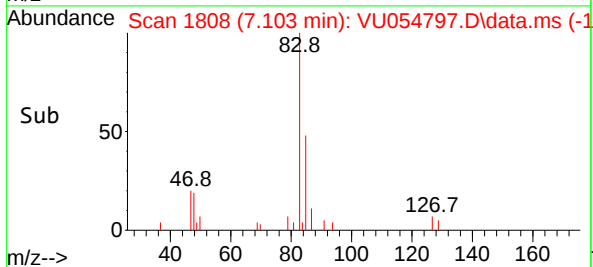
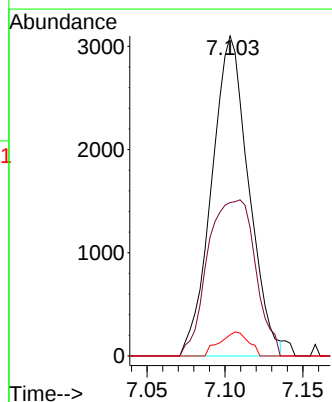
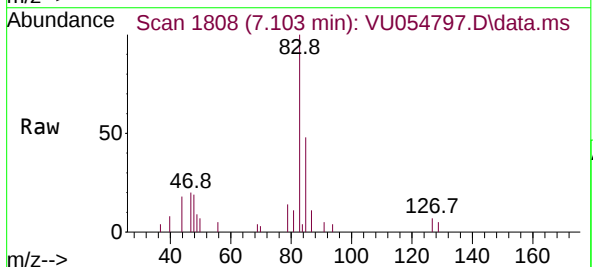
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

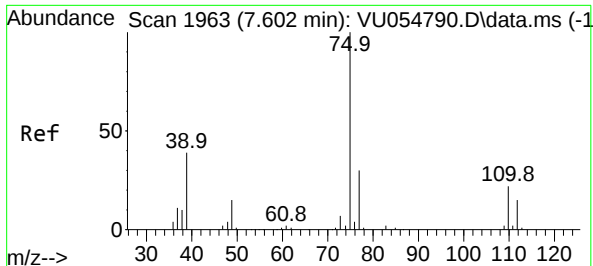
Tgt Ion: 63 Resp: 3931
Ion Ratio Lower Upper
63 100
112 1.3 3.1 4.7#



#38
Bromodichloromethane
Concen: 2.367 ug/L
RT: 7.103 min Scan# 1808
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 83 Resp: 5111
Ion Ratio Lower Upper
83 100
85 45.9 44.9 83.3
127 6.3 7.2 10.8#





#39

cis-1,3-Dichloropropene

Concen: 1.959 ug/L

RT: 7.608 min Scan# 1963

Delta R.T. 0.006 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

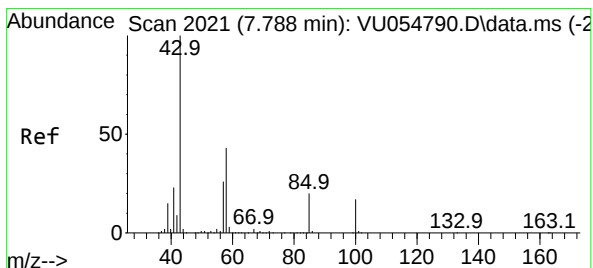
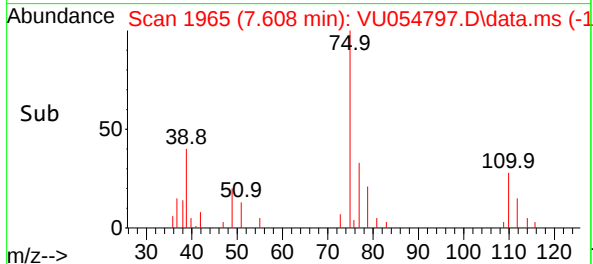
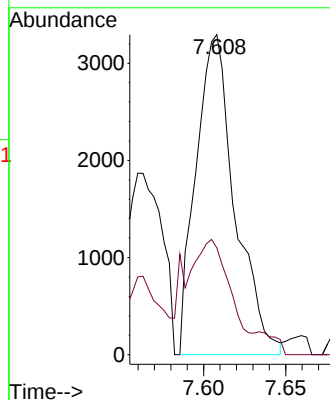
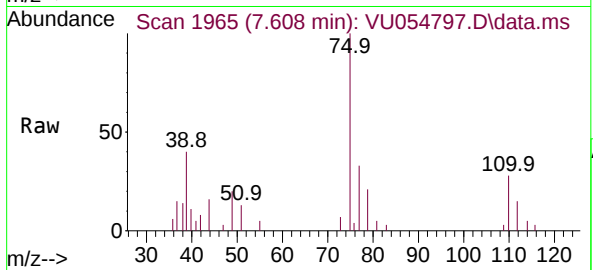
MDL-MED-SOIL-QT3-2023-05

Tgt Ion: 75 Resp: 5436

Ion Ratio Lower Upper

75 100

77 32.2 21.1 39.1



#40

4-Methyl-2-pentanone

Concen: 4.810 ug/L

RT: 7.791 min Scan# 2022

Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

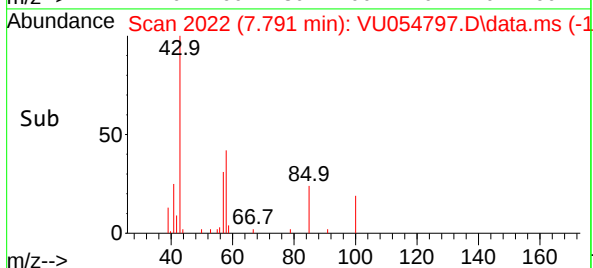
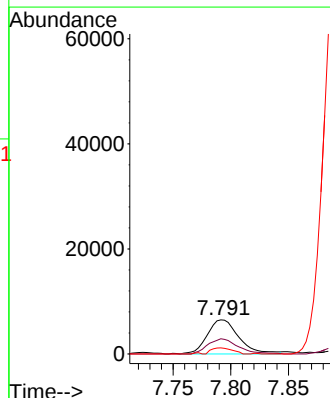
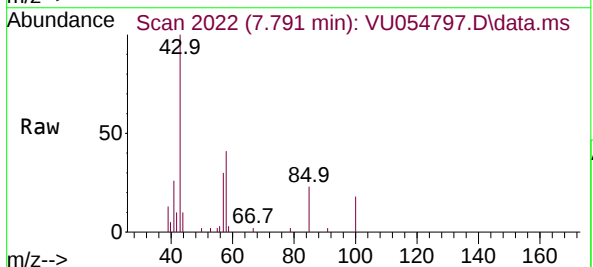
Tgt Ion: 43 Resp: 12393

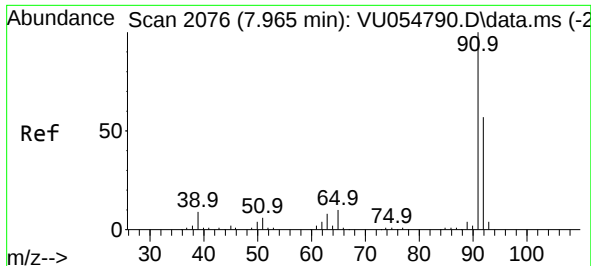
Ion Ratio Lower Upper

43 100

58 42.5 33.7 50.5

100 11.9 13.0 19.4





#42

Toluene

Concen: 2.095 ug/L

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

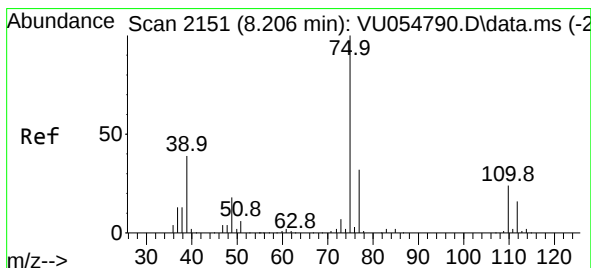
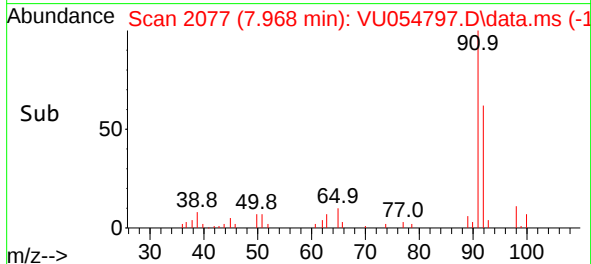
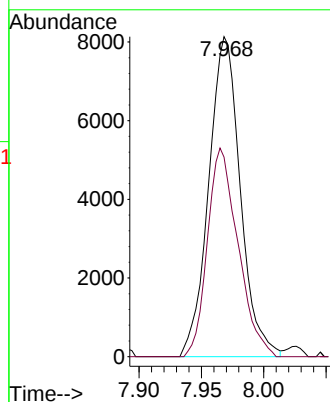
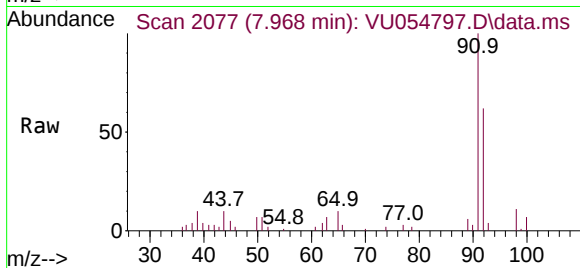
MDL-MED-SOIL-QT3-2023-05

Tgt Ion: 91 Resp: 14343

Ion Ratio Lower Upper

91 100

92 66.6 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 2.172 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. -0.000 min

Lab File: VU054797.D

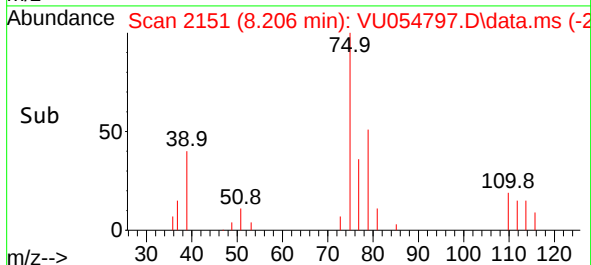
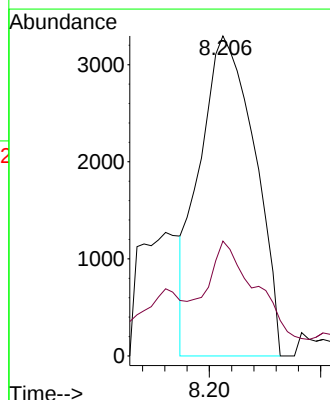
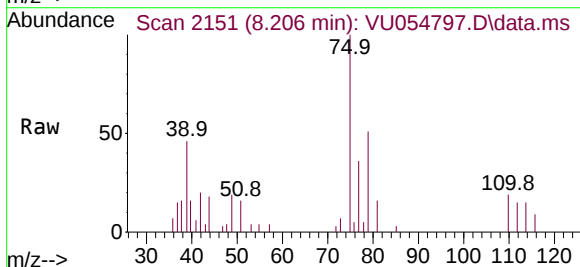
Acq: 17 Jul 2023 16:56

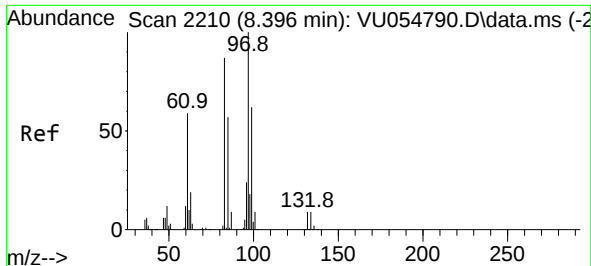
Tgt Ion: 75 Resp: 5663

Ion Ratio Lower Upper

75 100

77 34.3 22.7 42.1

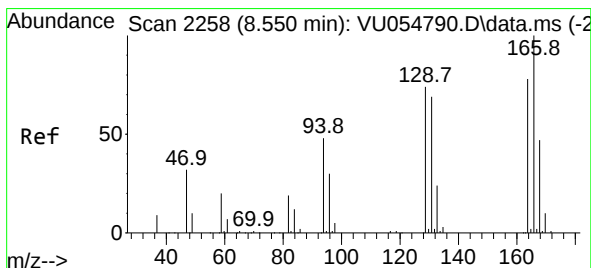
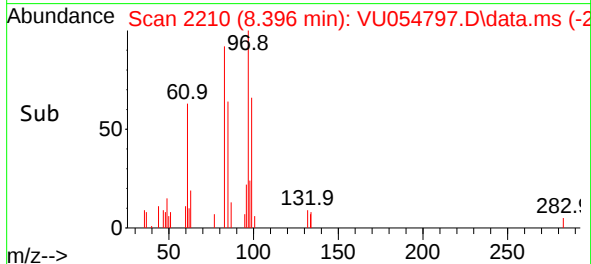
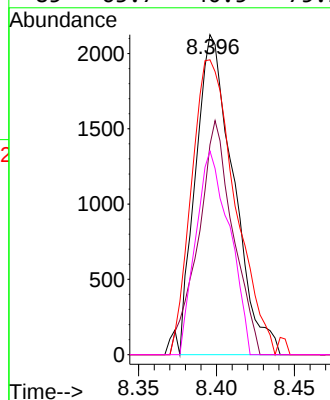
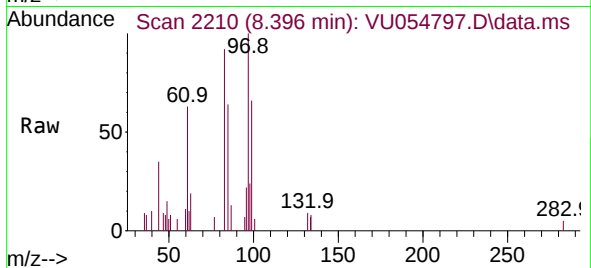




#45
1,1,2-Trichloroethane
Concen: 2.086 ug/L
RT: 8.396 min Scan# 2110
Delta R.T. -0.000 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

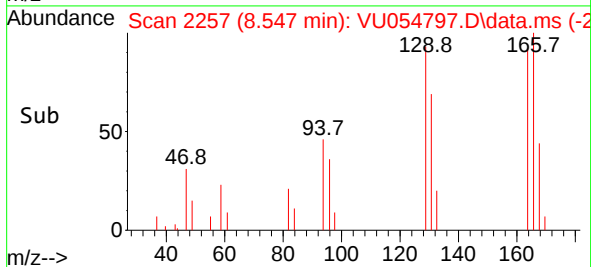
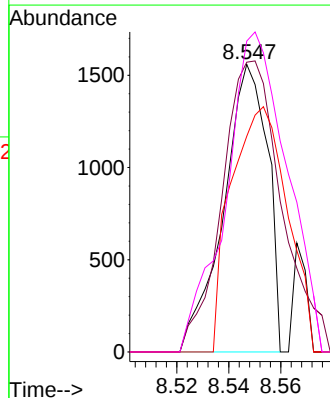
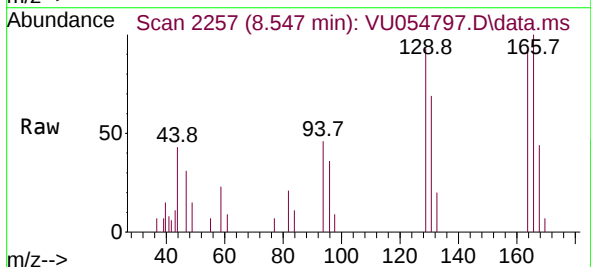
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT3-2023-05

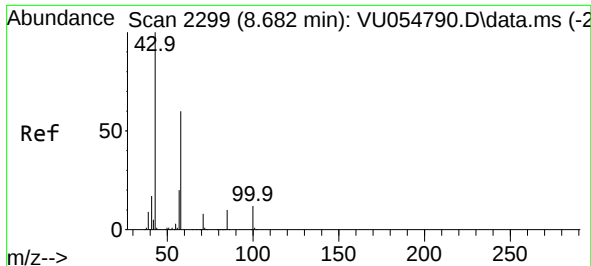
Tgt Ion:	97	Resp:	3578
Ion	Ratio	Lower	Upper
97	100		
99	65.6	43.3	80.5
83	92.1	60.6	112.6
85	63.7	40.5	75.3



#46
Tetrachloroethene
Concen: 1.536 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion:	164	Resp:	1834
Ion	Ratio	Lower	Upper
164	100		
129	100.8	66.2	123.0
131	75.0	61.9	115.1
166	108.1	89.2	165.8

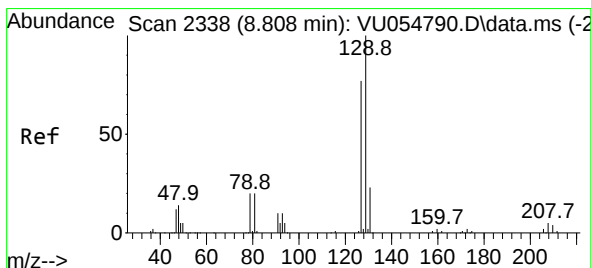
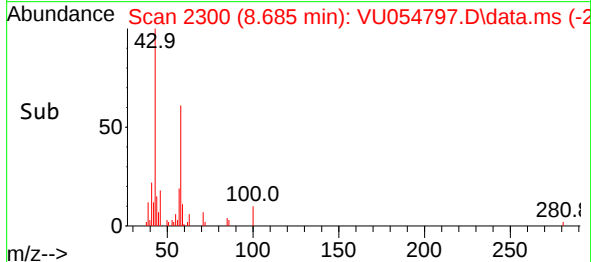
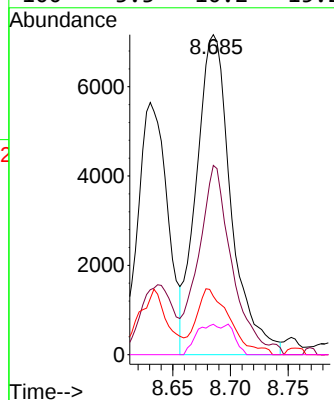
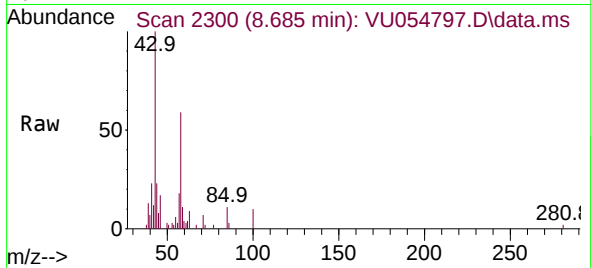




#48
2-Hexanone
Concen: 7.016 ug/L
RT: 8.685 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

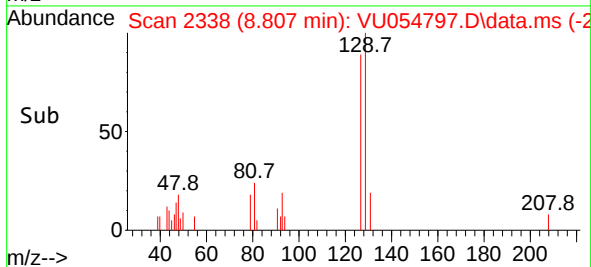
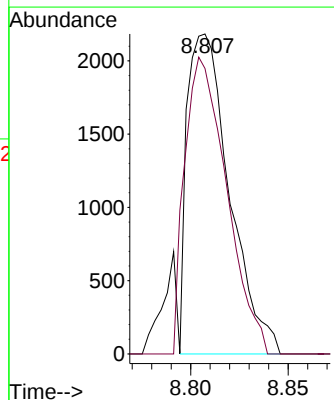
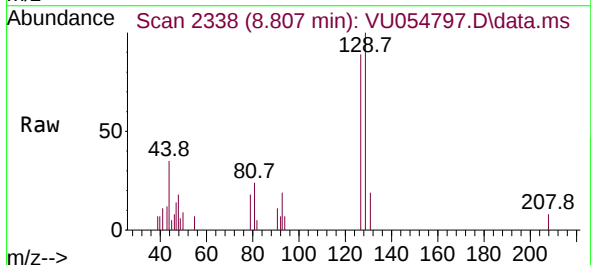
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

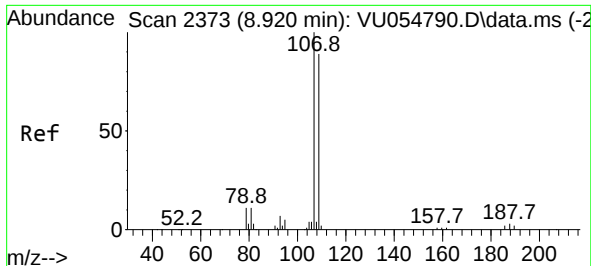
Tgt Ion: 43 Resp: 14975
Ion Ratio Lower Upper
43 100
58 51.8 46.5 69.7
57 16.8 15.4 23.2
100 3.3 10.2 15.2#



#49
Dibromochloromethane
Concen: 1.869 ug/L
RT: 8.807 min Scan# 2338
Delta R.T. -0.000 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 129 Resp: 3303
Ion Ratio Lower Upper
129 100
127 89.2 54.4 101.0





#50

1,2-Dibromoethane

Concen: 2.209 ug/L

RT: 8.920 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

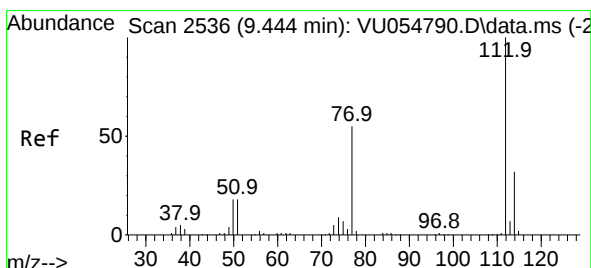
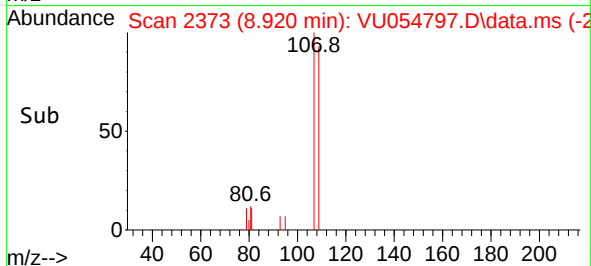
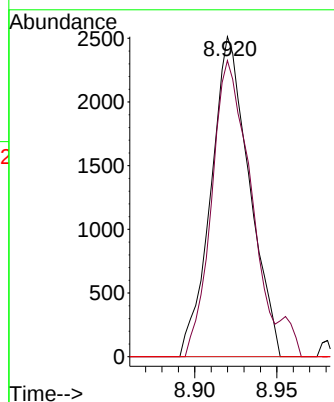
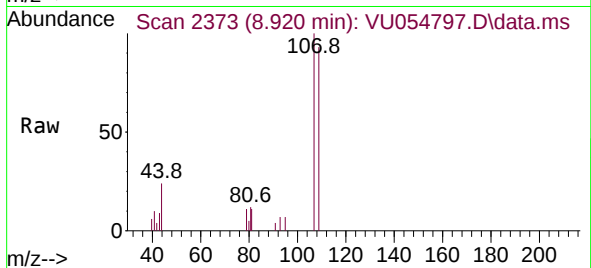
Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05

Tgt Ion:	107	Resp:	4080
Ion	Ratio	Lower	Upper
107	100		
109	92.6	62.5	116.1
188	0.0	2.6	4.0#



#51

Chlorobenzene

Concen: 2.271 ug/L

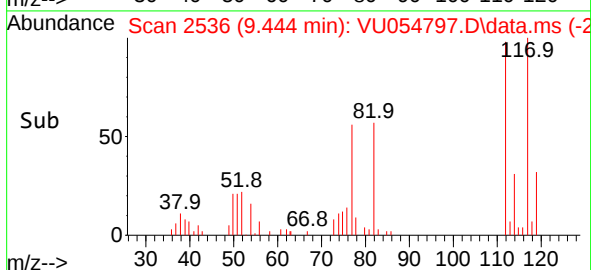
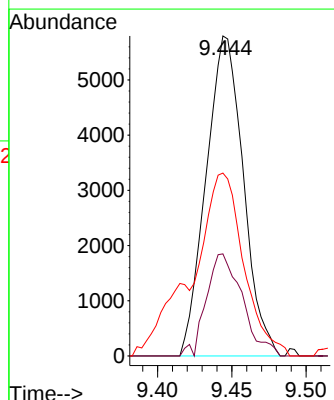
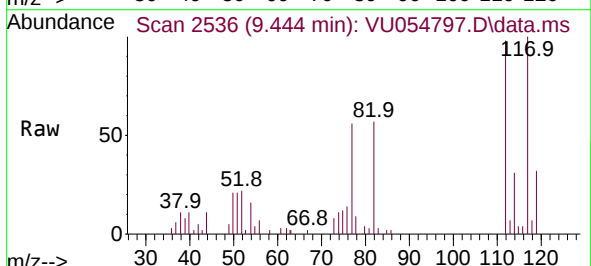
RT: 9.444 min Scan# 2536

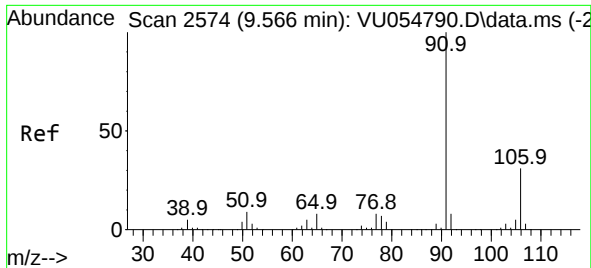
Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Tgt Ion:	112	Resp:	10117
Ion	Ratio	Lower	Upper
112	100		
114	36.0	22.3	41.5
77	66.2	44.2	66.4

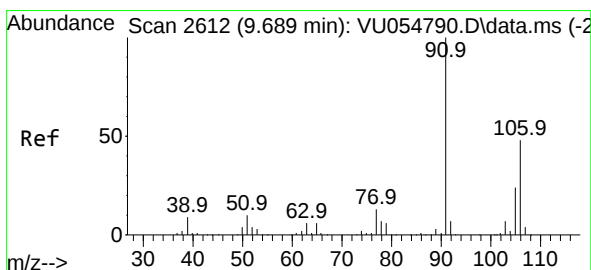
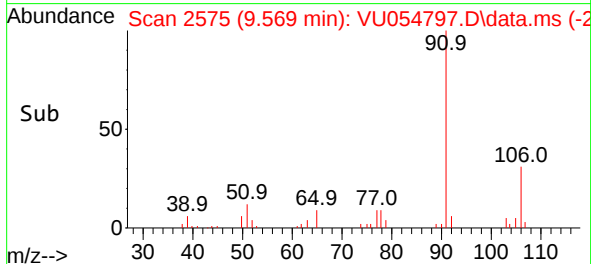
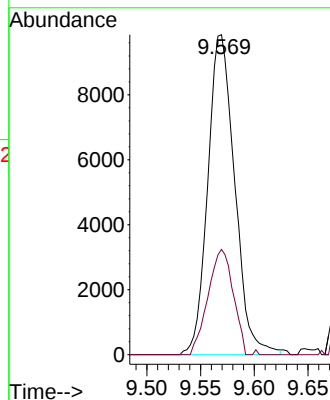
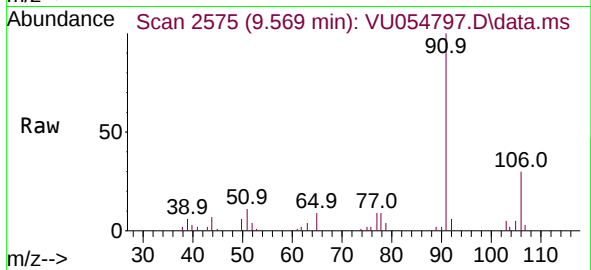




#52
Ethylbenzene
Concen: 2.166 ug/L
RT: 9.569 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

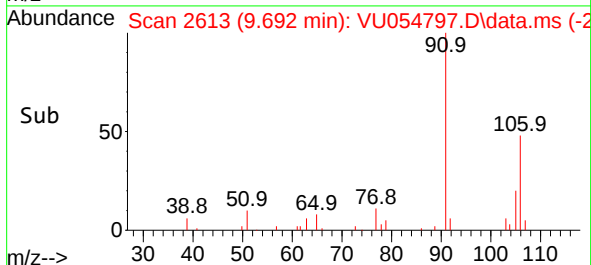
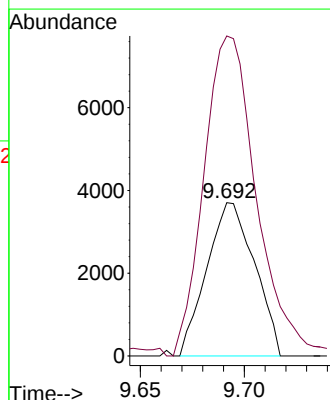
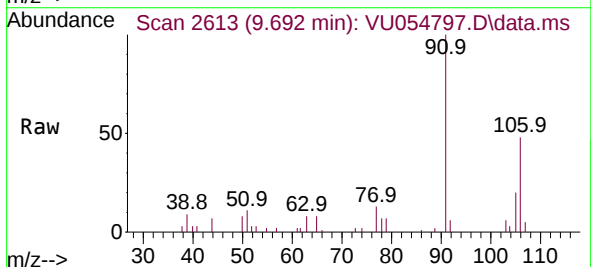
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

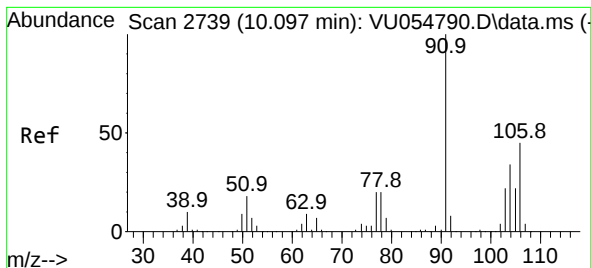
Tgt Ion: 91 Resp: 17143
Ion Ratio Lower Upper
91 100
106 32.9 23.5 43.7



#53
m,p-Xylene
Concen: 1.965 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 106 Resp: 5921
Ion Ratio Lower Upper
106 100
91 200.2 133.3 247.7





#54

o-Xylene

Concen: 1.991 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

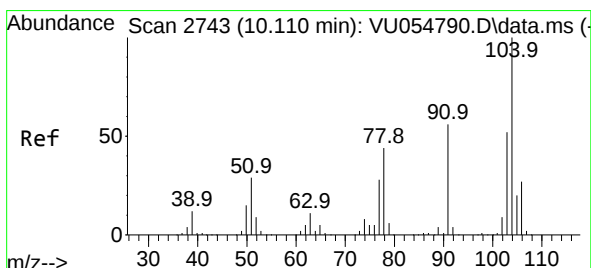
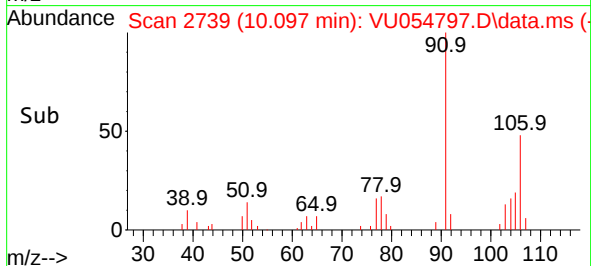
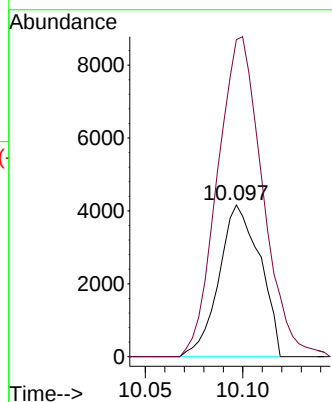
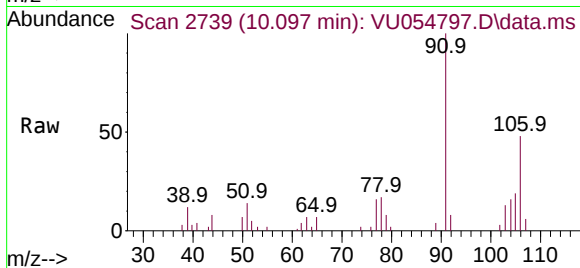
MDL-MED-SOIL-QT3-2023-05

Tgt Ion:106 Resp: 6095

Ion Ratio Lower Upper

106 100

91 208.8 142.0 263.8



#55

Styrene

Concen: 2.092 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. 0.003 min

Lab File: VU054797.D

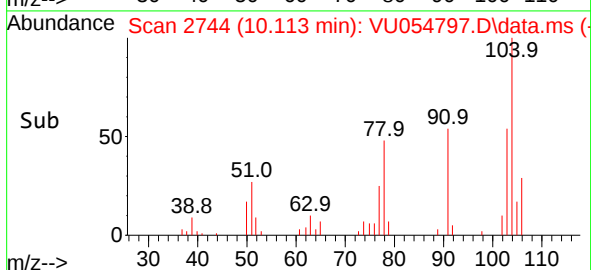
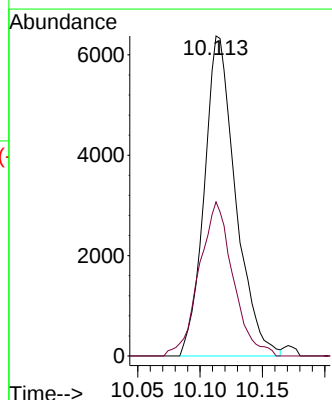
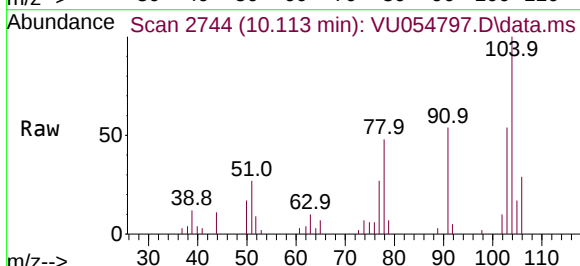
Acq: 17 Jul 2023 16:56

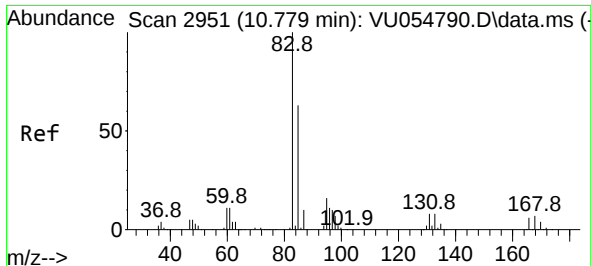
Tgt Ion:104 Resp: 11153

Ion Ratio Lower Upper

104 100

78 54.9 30.7 57.1





#57

1,1,2,2-Tetrachloroethane

Concen: 2.542 ug/L

RT: 10.778 min Scan# 2951

Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

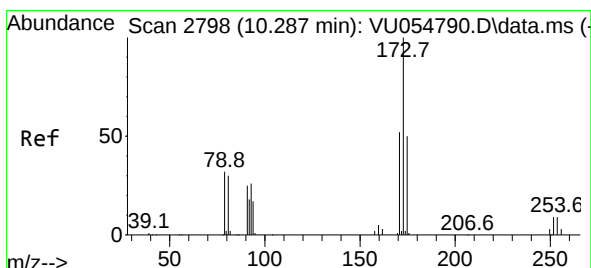
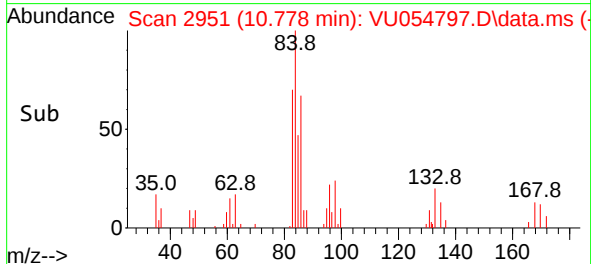
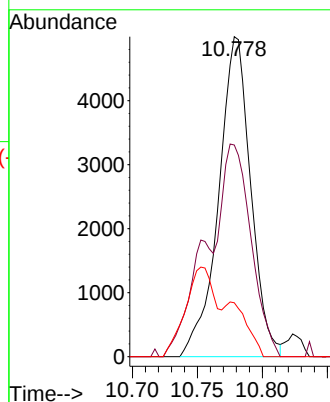
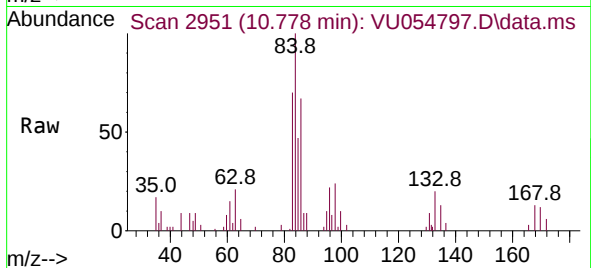
Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05

Tgt Ion:	83	Resp:	8609
Ion	Ratio	Lower	Upper
83	100		
85	66.2	43.8	81.4
131	16.9	8.7	13.1#



#59

Bromoform

Concen: 2.261 ug/L

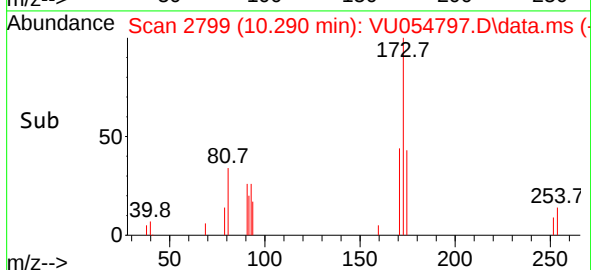
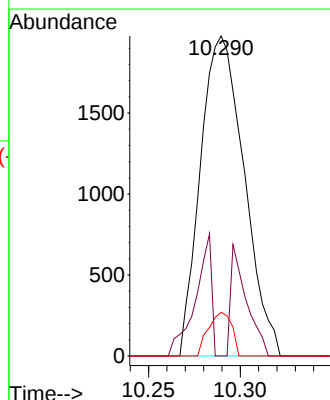
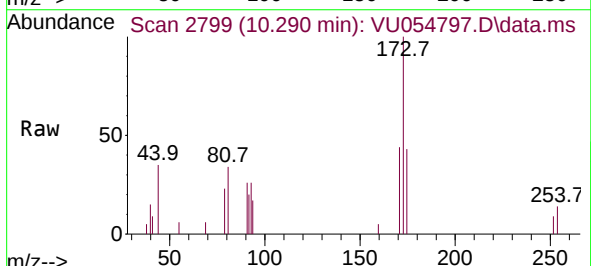
RT: 10.290 min Scan# 2799

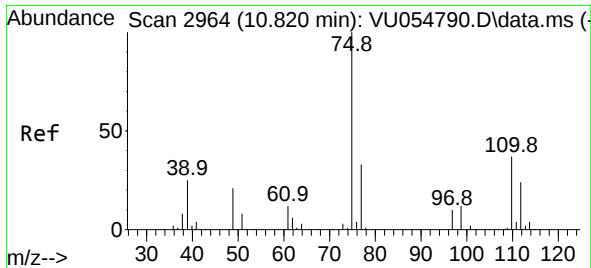
Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Tgt Ion:	173	Resp:	3273
Ion	Ratio	Lower	Upper
173	100		
175	12.6	38.8	58.2#
254	7.3	2.4	3.6#

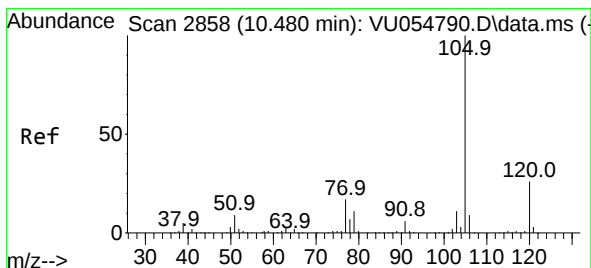
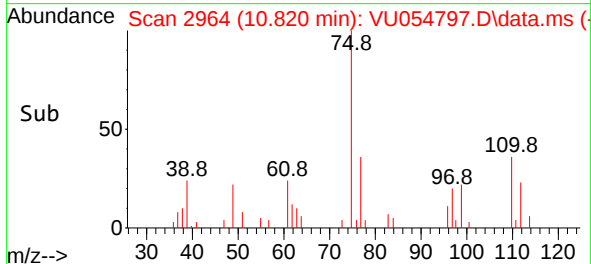
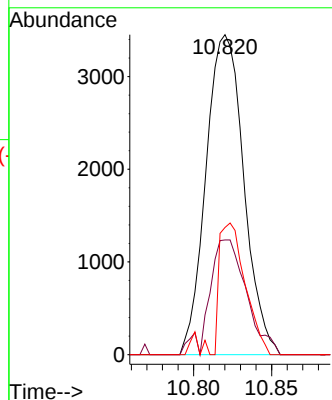
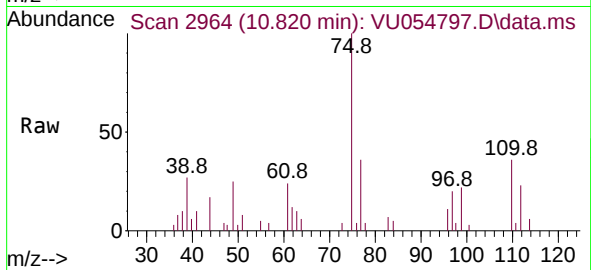




#60
1,2,3-Trichloropropane
Concen: 2.583 ug/L
RT: 10.820 min Scan# 2964
Delta R.T. -0.000 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

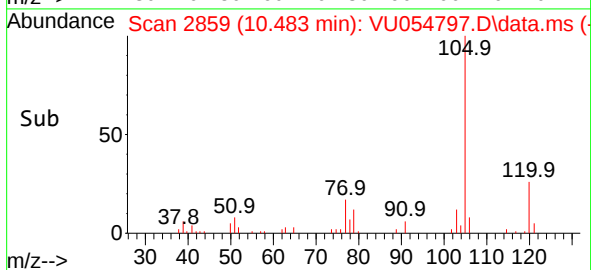
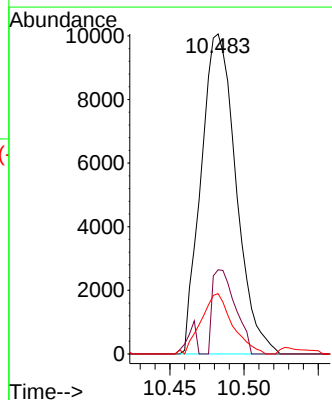
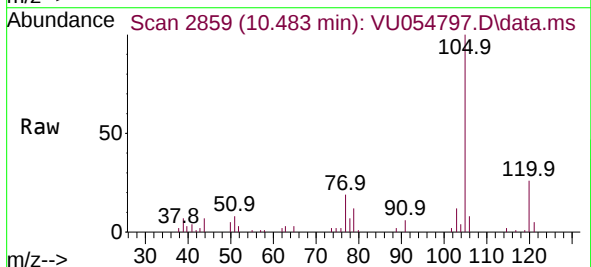
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT3-2023-05

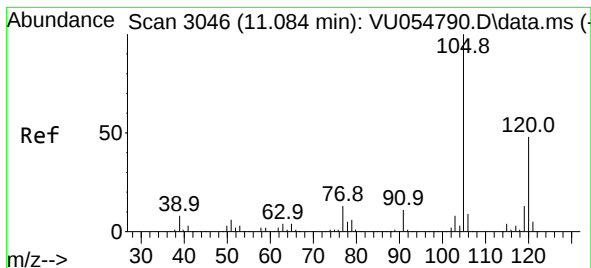
Tgt Ion: 75 Resp: 5832
Ion Ratio Lower Upper
75 100
77 31.7 26.2 39.4
110 0.5 29.9 44.9#



#61
Isopropylbenzene
Concen: 2.156 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion: 105 Resp: 16488
Ion Ratio Lower Upper
105 100
120 17.2 21.4 32.0#
77 16.7 12.8 19.2





#62

1,3,5-Trimethylbenzene

Concen: 2.063 ug/L

RT: 11.087 min Scan# 3046

Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

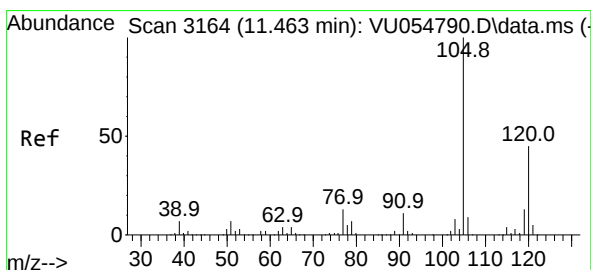
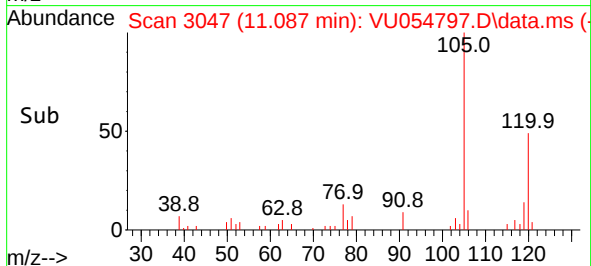
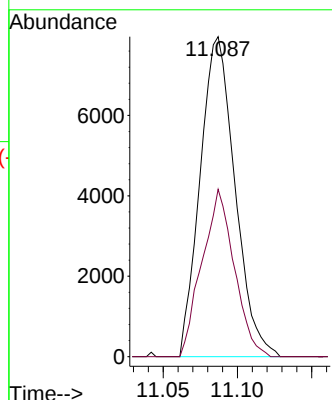
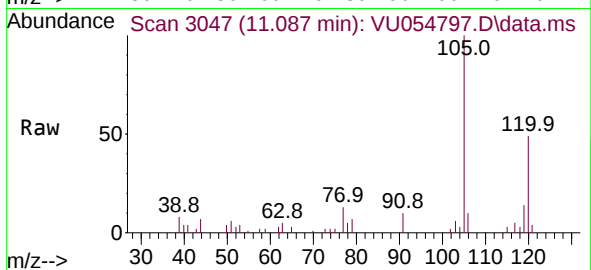
MDL-MED-SOIL-QT3-2023-05

Tgt Ion:105 Resp: 12992

Ion Ratio Lower Upper

105 100

120 48.3 38.0 57.0



#63

1,2,4-Trimethylbenzene

Concen: 1.962 ug/L

RT: 11.466 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU054797.D

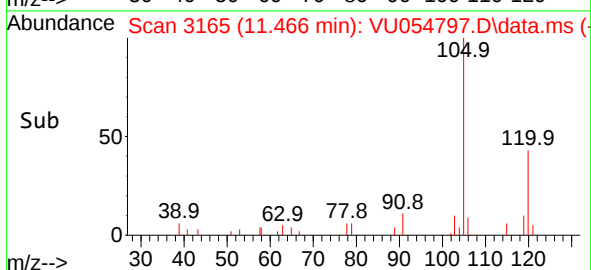
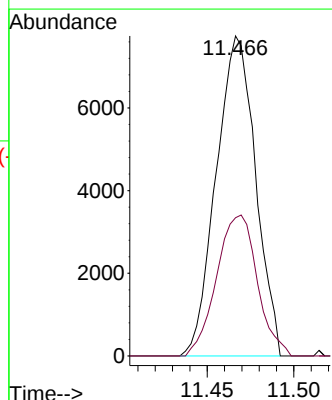
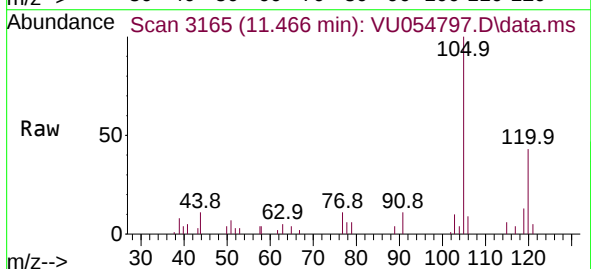
Acq: 17 Jul 2023 16:56

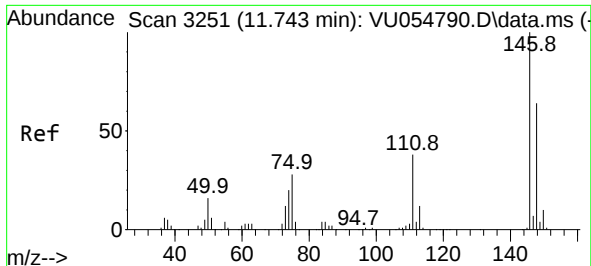
Tgt Ion:105 Resp: 12245

Ion Ratio Lower Upper

105 100

120 45.5 36.2 54.2

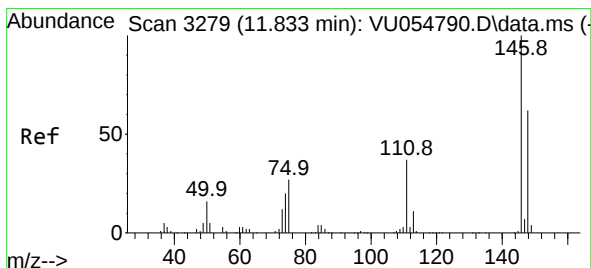
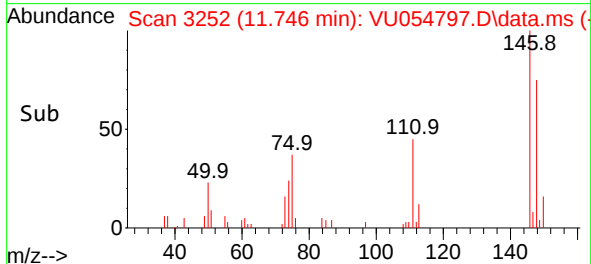
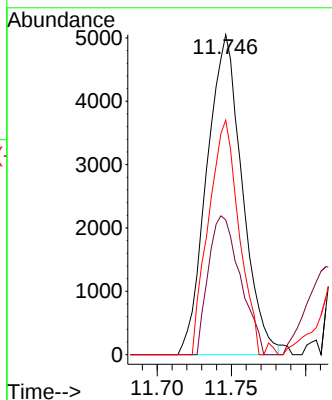
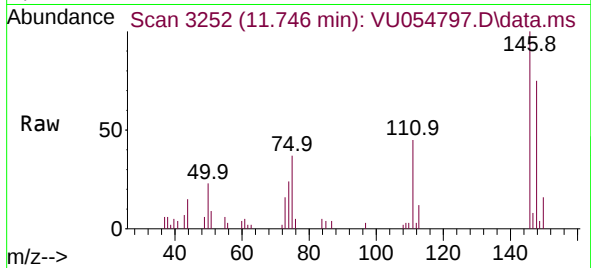




#64
1,3-Dichlorobenzene
Concen: 2.355 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

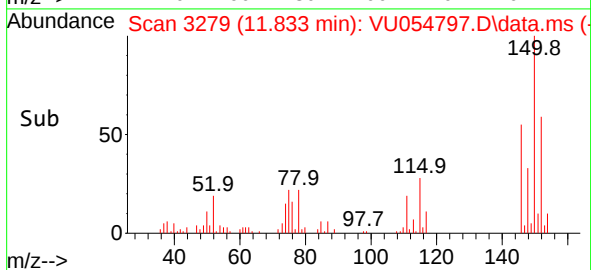
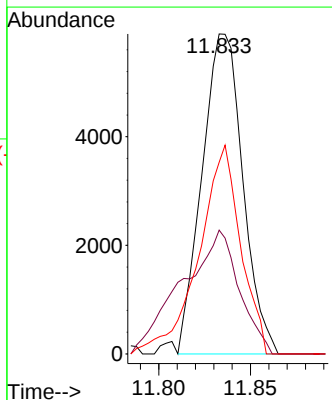
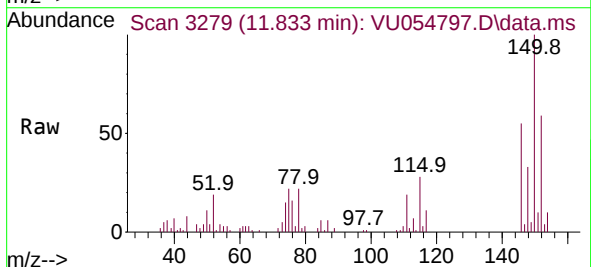
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT3-2023-05

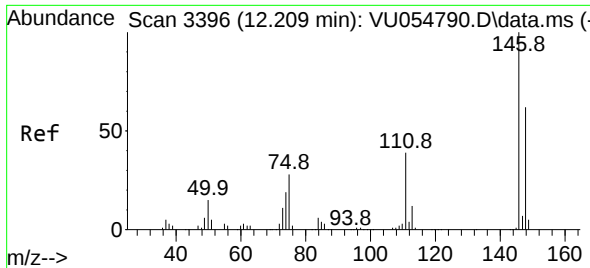
Tgt Ion:146 Resp: 8352
Ion Ratio Lower Upper
146 100
111 42.1 25.2 46.8
148 73.3 44.4 82.4



#65
1,4-Dichlorobenzene
Concen: 2.559 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. -0.000 min
Lab File: VU054797.D
Acq: 17 Jul 2023 16:56

Tgt Ion:146 Resp: 9139
Ion Ratio Lower Upper
146 100
111 36.4 24.1 44.8
148 65.5 41.0 76.2





#67

1,2-Dichlorobenzene

Concen: 2.516 ug/L

RT: 12.209 min Scan# 3396

Delta R.T. -0.000 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05

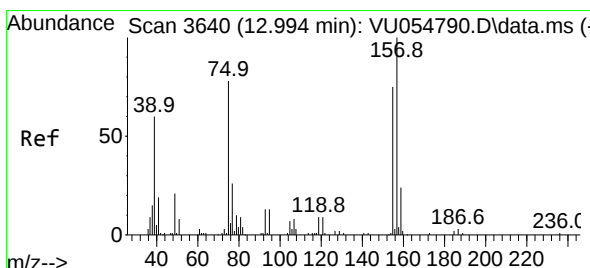
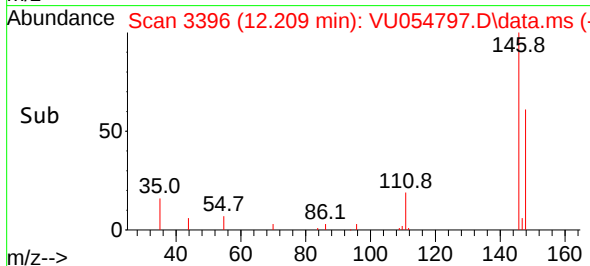
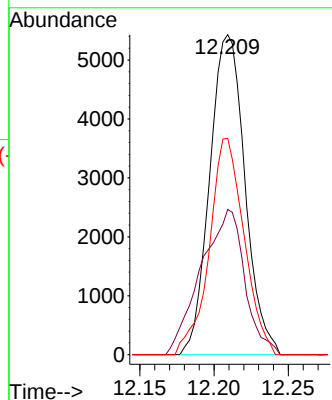
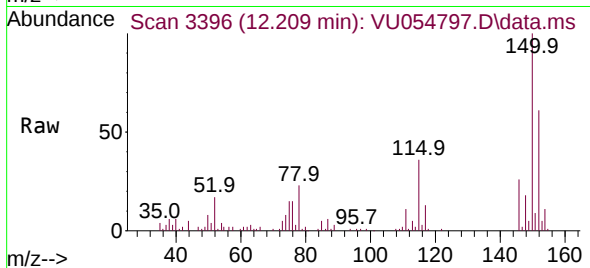
Tgt Ion:146 Resp: 8964

Ion Ratio Lower Upper

146 100

111 42.9 31.5 47.3

148 83.1 53.5 80.3#



#68

1,2-Dibromo-3-chloropropane

Concen: 2.151 ug/L

RT: 12.997 min Scan# 3641

Delta R.T. 0.003 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

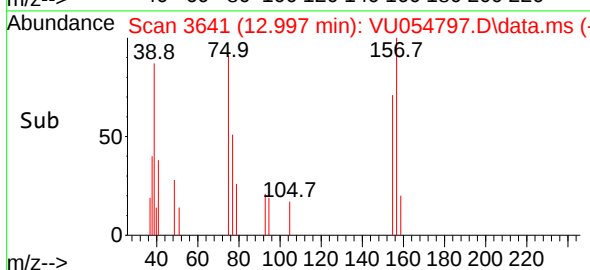
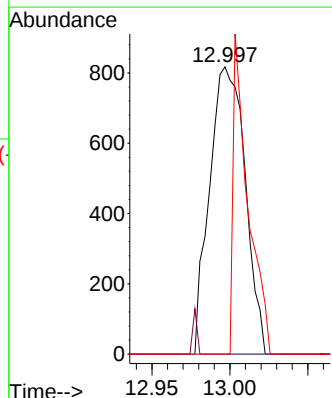
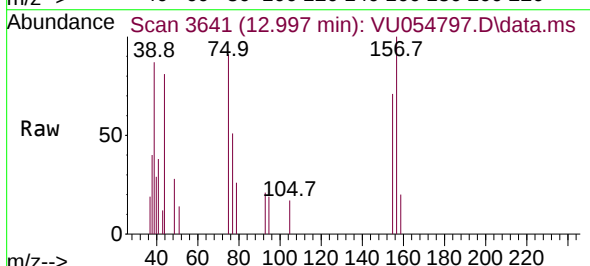
Tgt Ion: 75 Resp: 1298

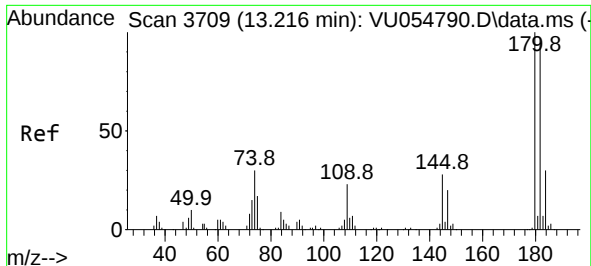
Ion Ratio Lower Upper

75 100

155 0.0 80.6 121.0#

157 0.0 106.5 159.7#





#69

1,3,5-Trichlorobenzene

Concen: 2.306 ug/L

RT: 13.219 min Scan# 3709

Delta R.T. 0.003 min

Lab File: VU054797.D

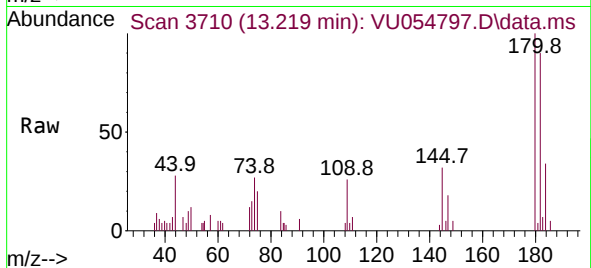
Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05



Tgt Ion:180 Resp: 5482

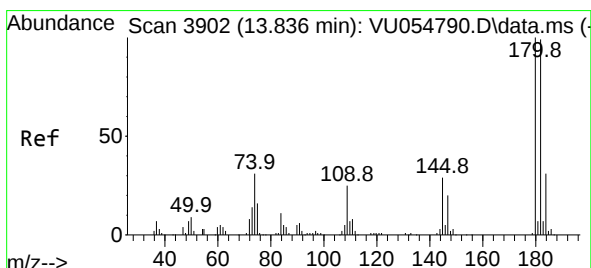
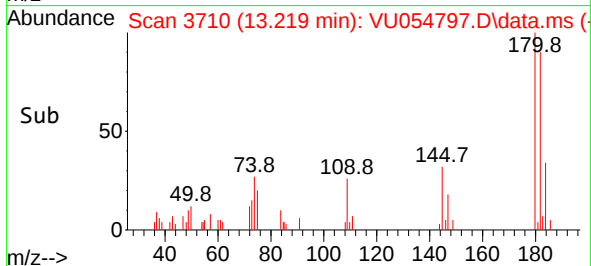
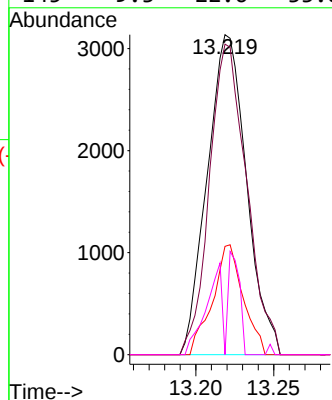
Ion Ratio Lower Upper

180 100

182 92.0 76.7 115.1

184 26.8 23.4 35.0

145 9.3 22.6 33.8#



#70

1,2,4-trichlorobenzene

Concen: 0.682 ug/L

RT: 13.842 min Scan# 3904

Delta R.T. 0.006 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

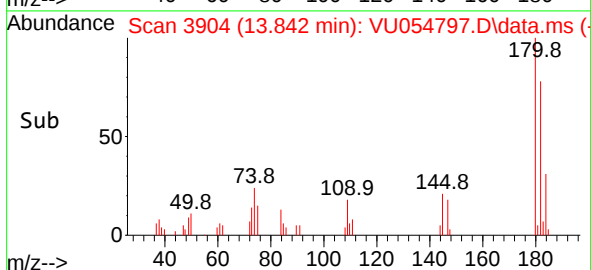
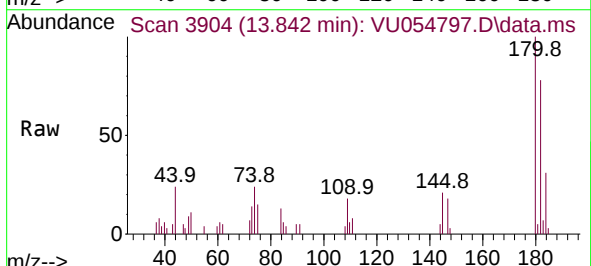
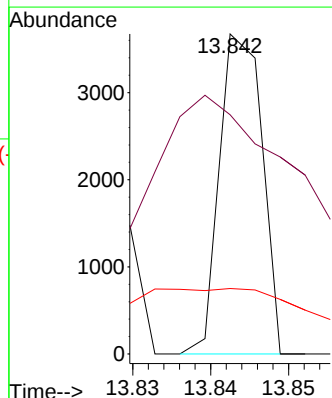
Tgt Ion:180 Resp: 1399

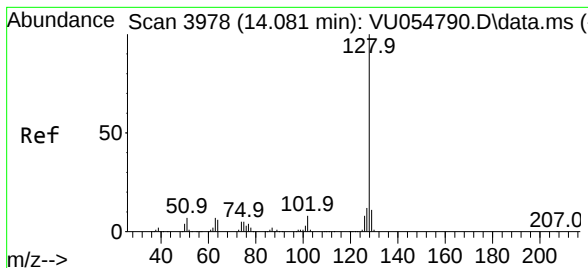
Ion Ratio Lower Upper

180 100

182 337.4 76.8 115.2#

145 0.0 23.0 34.6#





#71

Naphthalene

Concen: 2.374 ug/L

RT: 14.090 min Scan# 3981

Delta R.T. 0.009 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT3-2023-05

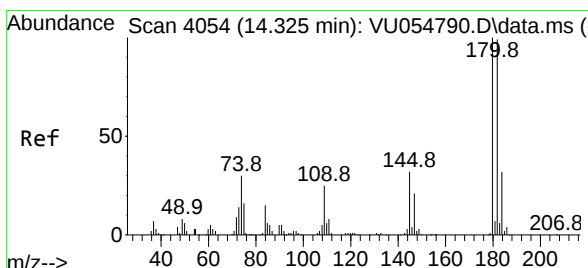
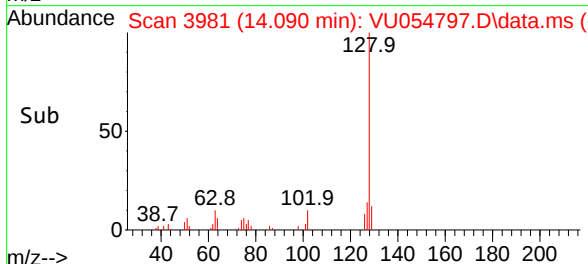
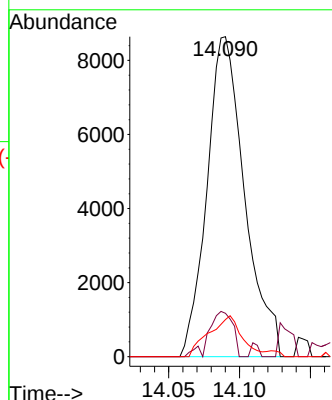
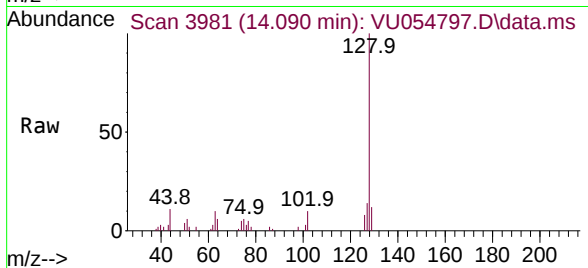
Tgt Ion:128 Resp: 15989

Ion Ratio Lower Upper

128 100

127 8.2 10.0 15.0#

129 11.0 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 1.904 ug/L

RT: 14.331 min Scan# 4056

Delta R.T. 0.006 min

Lab File: VU054797.D

Acq: 17 Jul 2023 16:56

Tgt Ion:180 Resp: 3805

Ion Ratio Lower Upper

180 100

182 59.6 76.6 115.0#

145 36.9 25.4 38.2

