

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD020224\
 Data File : VD078322.D
 Acq On : 02 Feb 2024 13:21
 Operator : RP/MD
 Sample : MDL-01
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07

Quant Time: Feb 03 01:16:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM020124SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Feb 03 00:20:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.781	114	202333	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	195837	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.522	152	82664	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	148659	25.897	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.600%
7) Chloroethane-d5	2.799	69	124219	25.743	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.960%
11) 1,1-Dichloroethene-d2	3.917	65	31322	25.271	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	101.080%
21) 2-Butanone-d5	6.987	46	43990	52.047	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.100%
24) Chloroform-d	7.563	84	144808	25.102	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.400%
26) 1,2-Dichloroethane-d4	8.234	65	80547	25.872	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.480%
32) Benzene-d6	8.205	84	300769	26.266	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.080%
36) 1,2-Dichloropropane-d6	9.210	67	93628	26.559	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.240%
41) Toluene-d8	10.269	98	263492	25.618	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.480%
43) trans-1,3-Dichloroprop...	10.522	79	40343	25.629	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.520%
47) 2-Hexanone-d5	10.875	63	37157	51.950	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.900%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	82176	25.086	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.360%
66) 1,2-Dichlorobenzene-d4	13.816	152	78634	26.571	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	106.280%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.934	85	3249	0.814	ug/L	92
3) Chloromethane	2.152	50	5804	1.000	ug/L	90
5) Vinyl chloride	2.275	62	6300	0.878	ug/L #	58
6) Bromomethane	2.693	94	2352	0.723	ug/L	96
8) Chloroethane	2.840	64	4085	0.894	ug/L #	77
9) Trichlorofluoromethane	3.164	101	2518	0.494	ug/L #	38
10) 1,1,2-Trichloro-1,2,2-...	3.975	101	1961	0.618	ug/L #	39
12) 1,1-Dichloroethene	3.934	96	2982	1.015	ug/L #	1
13) Acetone	4.022	43	1305	1.176	ug/L	98
14) Carbon disulfide	4.264	76	8642	0.798	ug/L #	87
15) Methyl Acetate	4.552	43	306	0.184	ug/L #	62
16) Methylene chloride	4.799	84	4101	1.033	ug/L	83
17) trans-1,2-Dichloroethene	5.316	96	2205	0.681	ug/L #	74
18) Methyl tert-butyl Ether	5.328	73	1077	0.143	ug/L #	87
19) 1,1-Dichloroethane	6.116	63	2702	0.477	ug/L	89
20) cis-1,2-Dichloroethene	7.069	96	2265	0.639	ug/L	89
22) 2-Butanone	7.087	43	1309	0.974	ug/L	81
23) Bromochloromethane	7.428	128	751	0.479	ug/L #	84
25) Chloroform	7.593	83	6515	1.054	ug/L	96

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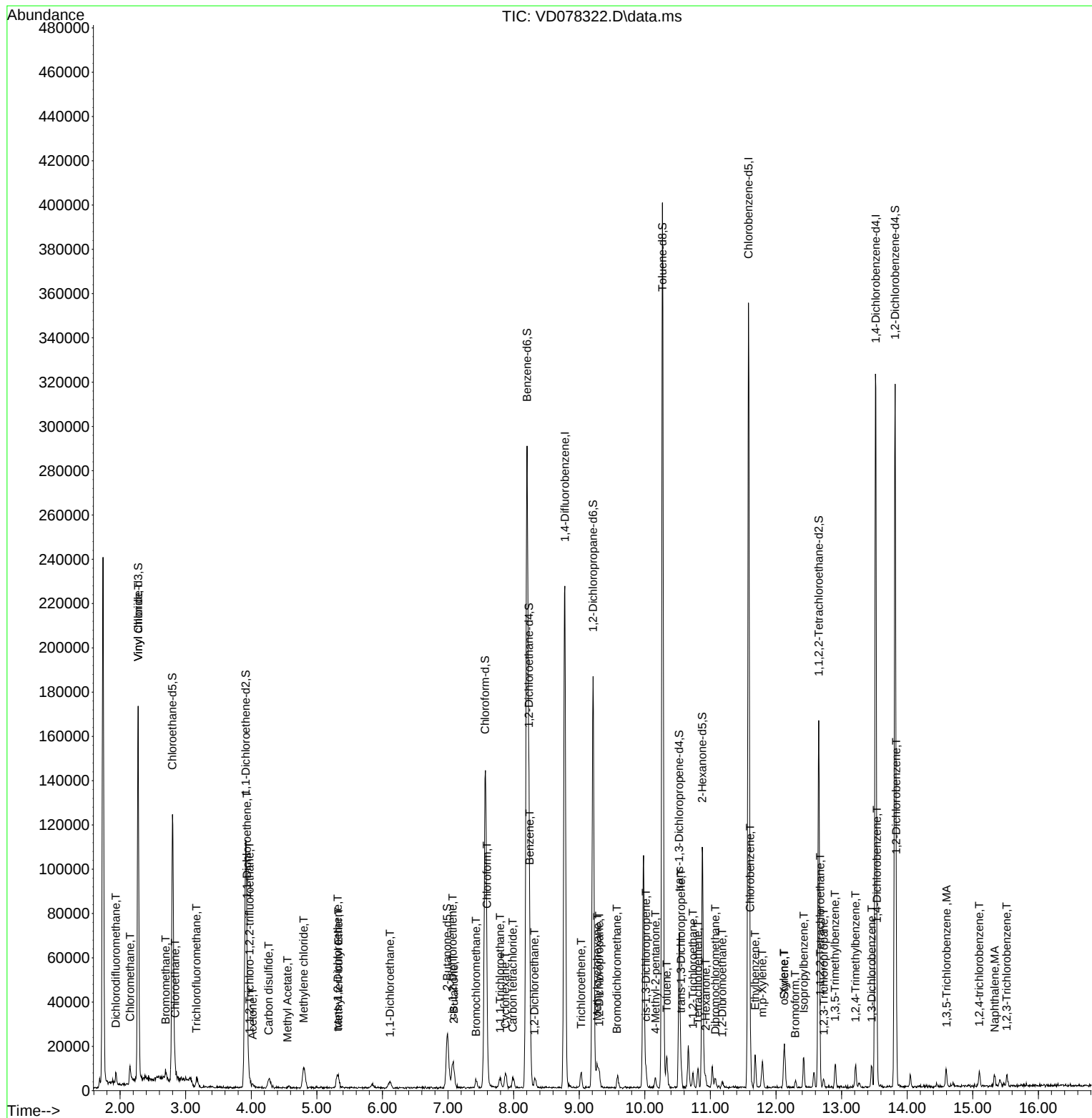
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	8.316	62	3142	0.792	ug/L #	72
29) Cyclohexane	7.875	56	381	0.086	ug/L #	1
30) 1,1,1-Trichloroethane	7.793	97	3666	0.764	ug/L #	84
31) Carbon tetrachloride	7.987	117	3318	0.785	ug/L #	53
33) Benzene	8.246	78	10801	0.818	ug/L	100
34) Trichloroethene	9.028	95	2841	0.852	ug/L #	72
35) Methylcyclohexane	9.275	83	3934	0.754	ug/L	93
37) 1,2-Dichloropropane	9.305	63	2807	0.807	ug/L #	97
38) Bromodichloromethane	9.575	83	1743	0.384	ug/L #	76
39) cis-1,3-Dichloropropene	10.016	75	3811	0.704	ug/L	96
40) 4-Methyl-2-pentanone	10.163	43	3002	1.390	ug/L #	89
42) Toluene	10.334	91	10287	0.749	ug/L	92
44) trans-1,3-Dichloropropene	10.552	75	3668	0.775	ug/L	98
45) 1,1,2-Trichloroethane	10.734	97	1870	0.675	ug/L #	82
46) Tetrachloroethene	10.810	164	2113	0.923	ug/L	89
48) 2-Hexanone	10.928	43	2512	1.426	ug/L #	92
49) Dibromochloromethane	11.075	129	2586	0.830	ug/L	91
50) 1,2-Dibromoethane	11.181	107	2005	0.742	ug/L #	98
51) Chlorobenzene	11.604	112	7238	0.814	ug/L	88
52) Ethylbenzene	11.681	91	9929	0.673	ug/L	95
53) m,p-Xylene	11.793	106	3521	0.621	ug/L	64
54) o-Xylene	12.122	106	3950	0.723	ug/L	75
55) Styrene	12.128	104	3161	0.321	ug/L #	79
57) 1,1,2,2-Tetrachloroethane	12.675	83	3354	0.944	ug/L #	83
59) Bromoform	12.293	173	1438	0.867	ug/L #	66
60) Isopropylbenzene	12.422	105	7815	0.626	ug/L #	93
61) 1,2,3-Trichloropropane	12.728	75	1851	0.878	ug/L #	57
62) 1,3,5-Trimethylbenzene	12.898	105	6306	0.645	ug/L	96
63) 1,2,4-Trimethylbenzene	13.210	105	6240	0.645	ug/L	98
64) 1,3-Dichlorobenzene	13.457	146	4037	0.724	ug/L	93
65) 1,4-Dichlorobenzene	13.540	146	4330	0.742	ug/L	93
67) 1,2-Dichlorobenzene	13.834	146	4946	0.938	ug/L	96
69) 1,3,5-Trichlorobenzene	14.598	180	2708	0.789	ug/L #	65
70) 1,2,4-trichlorobenzene	15.098	180	2459	0.828	ug/L #	75
71) Naphthalene	15.334	128	4950	0.712	ug/L #	73
72) 1,2,3-Trichlorobenzene	15.516	180	2227	0.804	ug/L	90

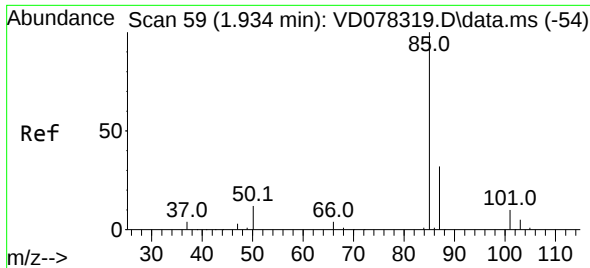
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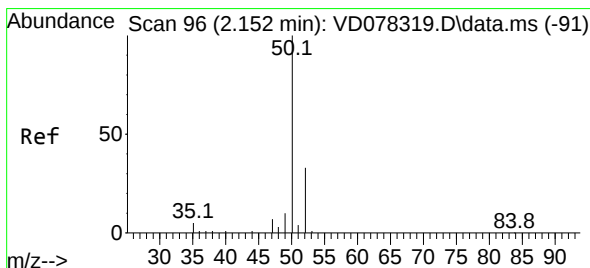
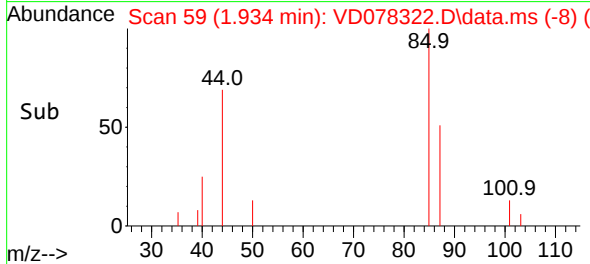
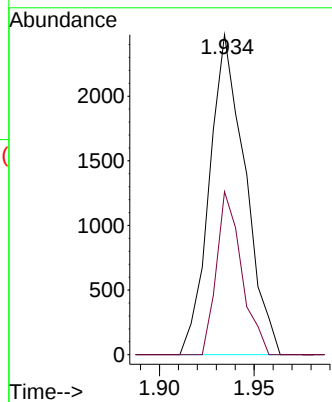
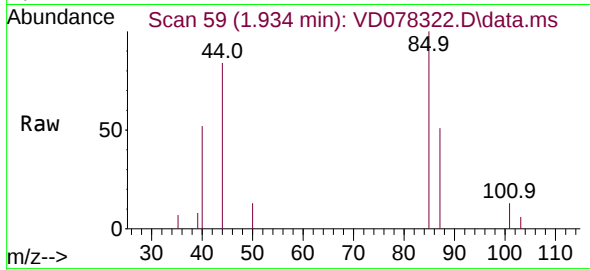




#2
Dichlorodifluoromethane
Concen: 0.814 ug/L
RT: 1.934 min Scan# 59
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

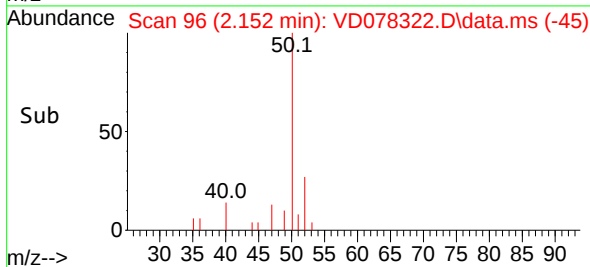
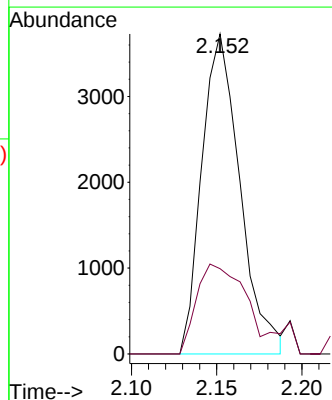
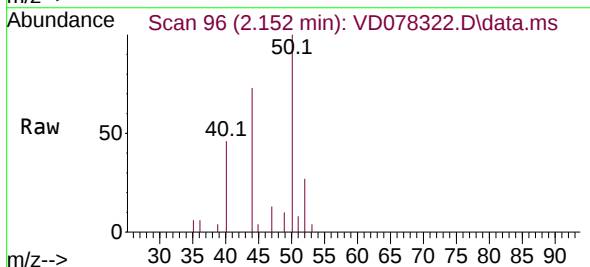
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MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

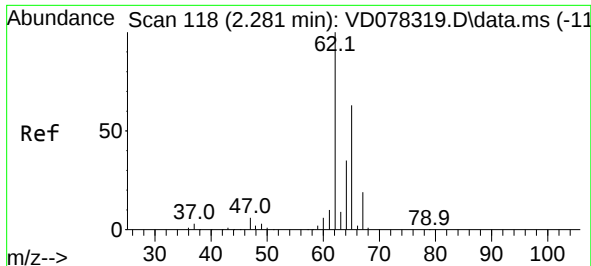
Tgt Ion: 85 Resp: 3249
Ion Ratio Lower Upper
85 100
87 35.8 25.3 37.9



#3
Chloromethane
Concen: 1.000 ug/L
RT: 2.152 min Scan# 96
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 50 Resp: 5804
Ion Ratio Lower Upper
50 100
52 26.6 22.7 42.3

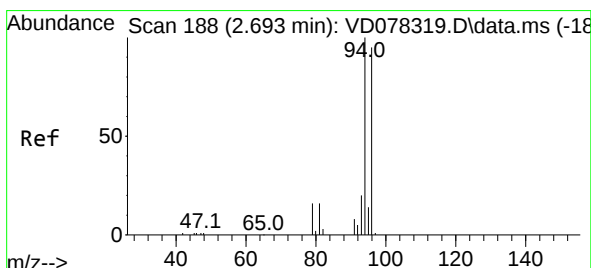
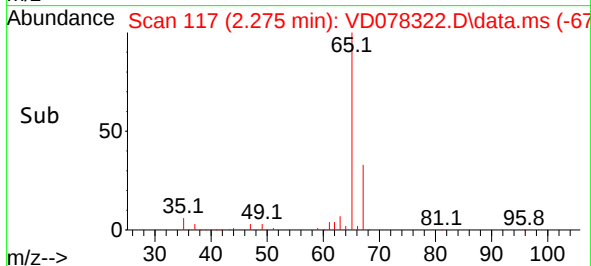
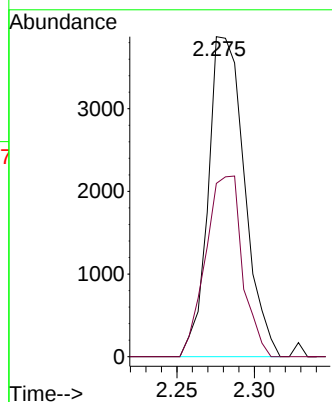
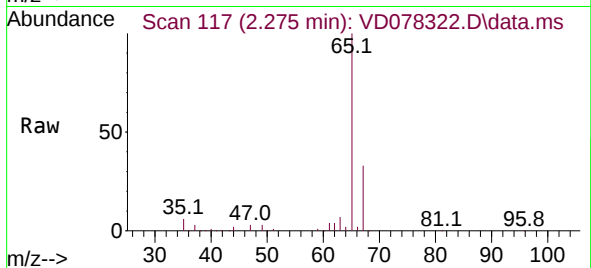




#5
 Vinyl chloride
 Concen: 0.878 ug/L
 RT: 2.275 min Scan# 118
 Delta R.T. -0.006 min
 Lab File: VD078322.D
 Acq: 02 Feb 2024 13:21

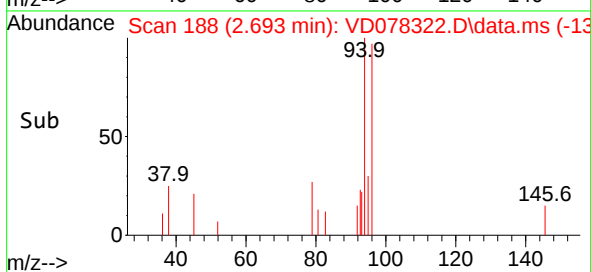
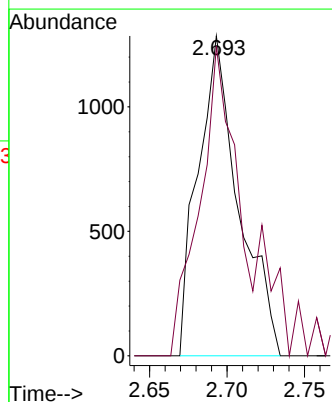
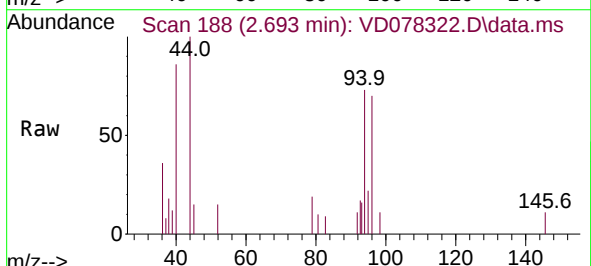
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07

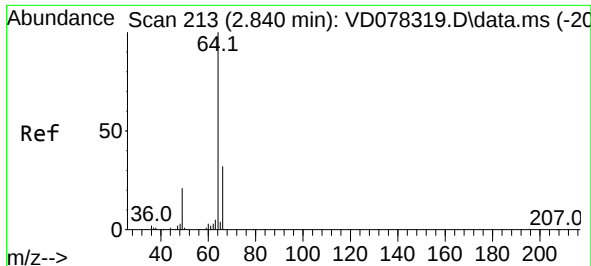
Tgt Ion: 62 Resp: 6300
 Ion Ratio Lower Upper
 62 100
 64 54.1 21.7 40.3#



#6
 Bromomethane
 Concen: 0.723 ug/L
 RT: 2.693 min Scan# 188
 Delta R.T. 0.000 min
 Lab File: VD078322.D
 Acq: 02 Feb 2024 13:21

Tgt Ion: 94 Resp: 2352
 Ion Ratio Lower Upper
 94 100
 96 96.7 64.8 120.4

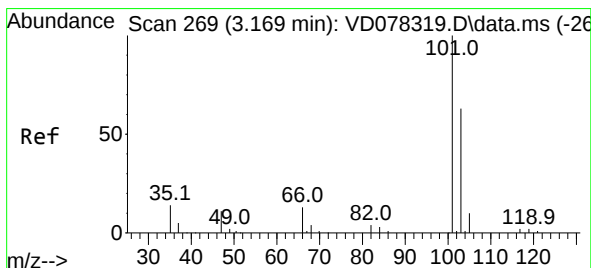
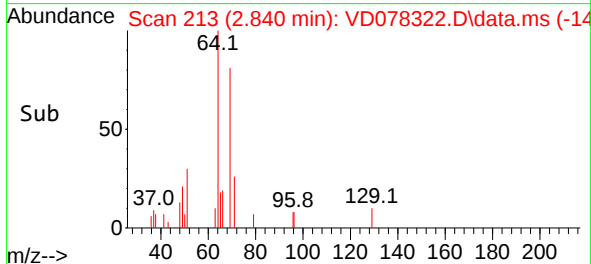
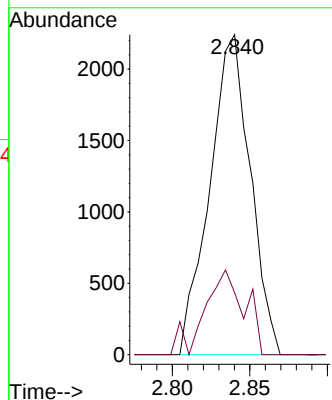
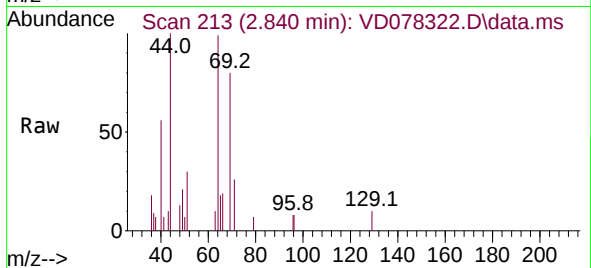




#8
Chloroethane
Concen: 0.894 ug/L
RT: 2.840 min Scan# 213
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

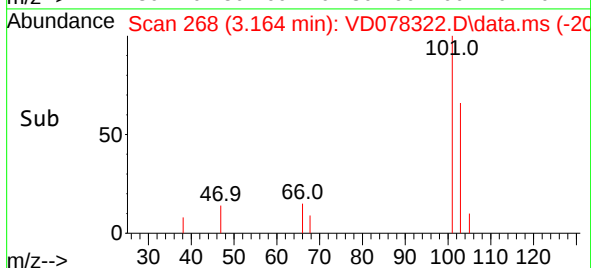
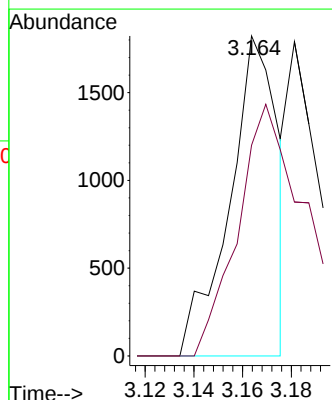
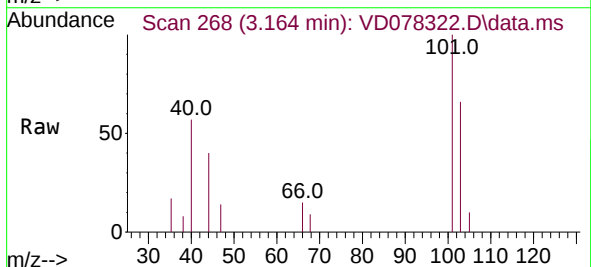
Instrument :
MSVOA_D
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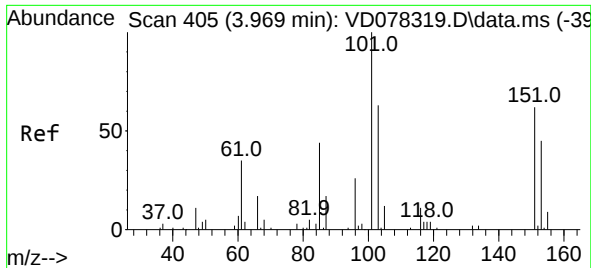
Tgt Ion: 64 Resp: 4085
Ion Ratio Lower Upper
64 100
66 19.4 22.8 42.4#



#9
Trichlorofluoromethane
Concen: 0.494 ug/L
RT: 3.164 min Scan# 268
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 101 Resp: 2518
Ion Ratio Lower Upper
101 100
103 112.0 51.1 76.7#





#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.618 ug/L
RT: 3.975 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

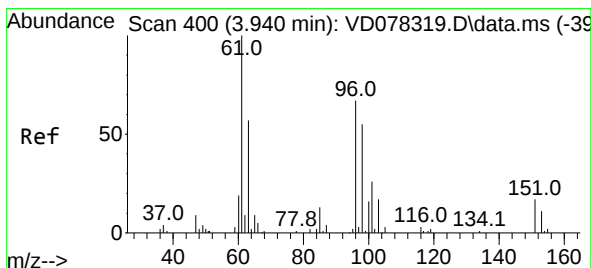
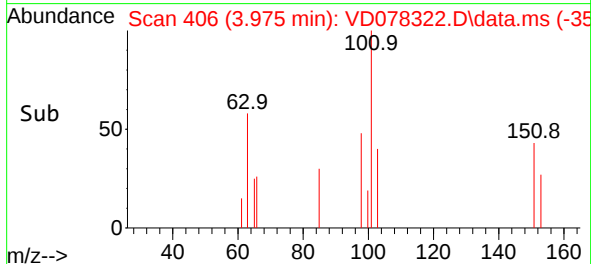
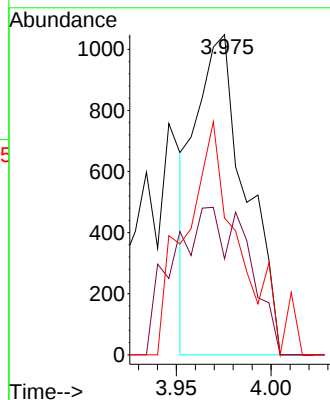
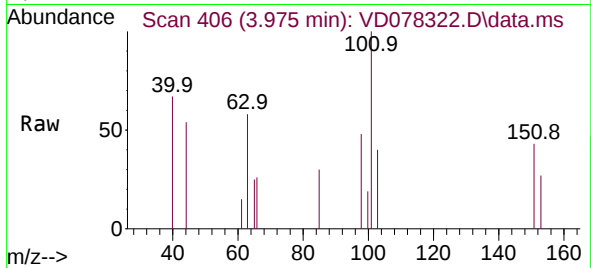
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ClientSampleId :

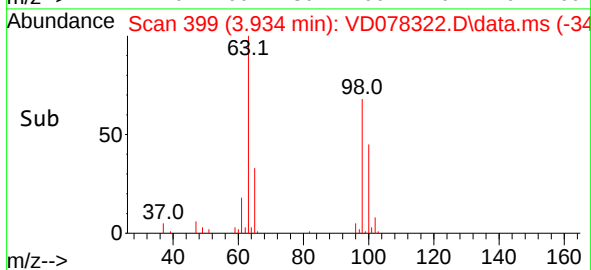
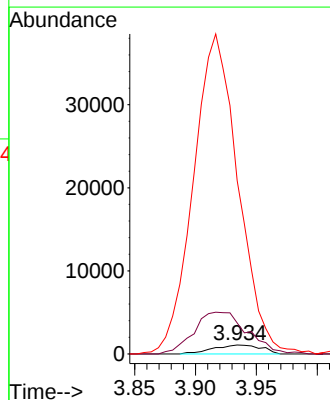
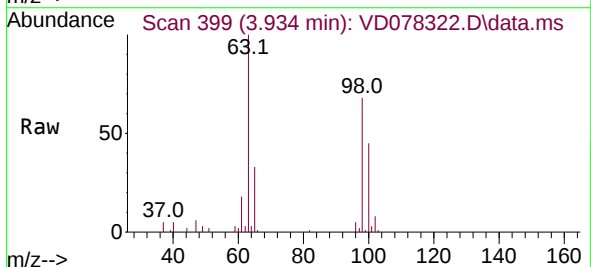
MDL-SOIL-QT4-2023-07

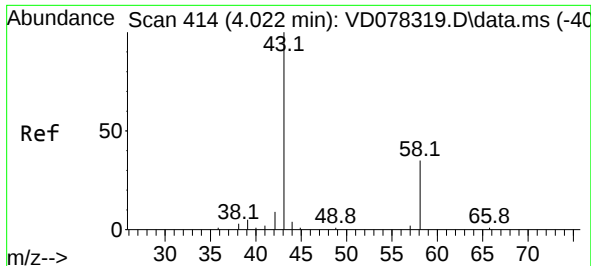
Tgt Ion:101 Resp: 1961
Ion Ratio Lower Upper
101 100
85 21.6 34.6 51.8#
151 5.4 54.6 81.8#



#12
1,1-Dichloroethene
Concen: 1.015 ug/L
RT: 3.934 min Scan# 399
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 96 Resp: 2982
Ion Ratio Lower Upper
96 100
61 344.3 108.8 202.2#
63 1923.7 65.2 121.0#





#13

Acetone

Concen: 1.176 ug/L

RT: 4.022 min Scan# 414

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

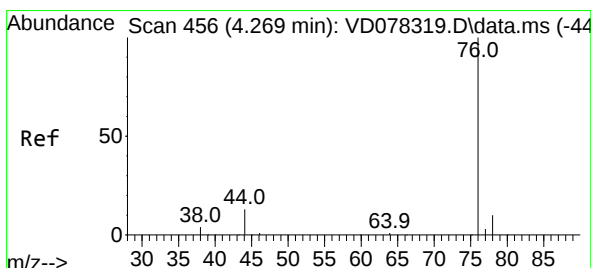
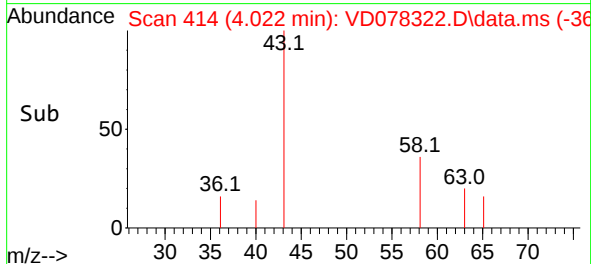
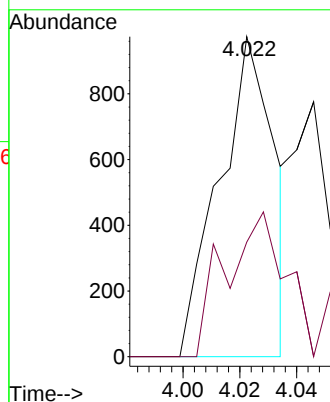
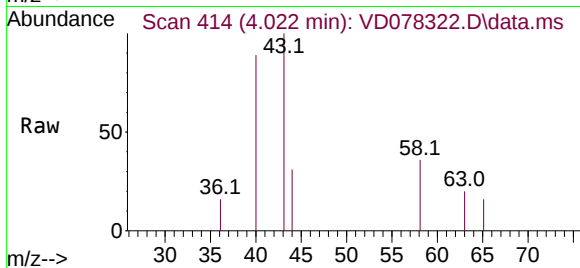
MDL-SOIL-QT4-2023-07

Tgt Ion: 43 Resp: 1305

Ion Ratio Lower Upper

43 100

58 34.8 0.0 67.2



#14

Carbon disulfide

Concen: 0.798 ug/L

RT: 4.264 min Scan# 455

Delta R.T. -0.006 min

Lab File: VD078322.D

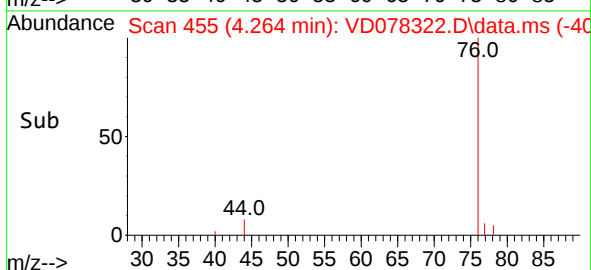
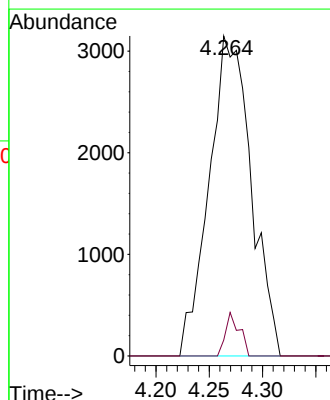
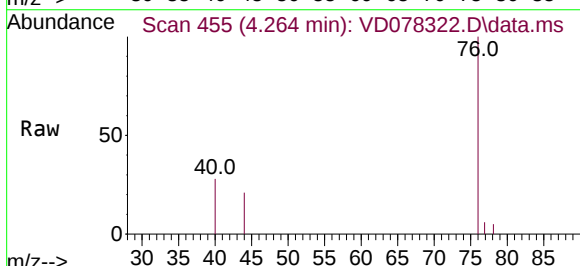
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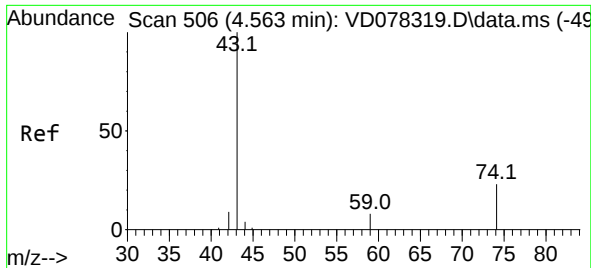
Tgt Ion: 76 Resp: 8642

Ion Ratio Lower Upper

76 100

78 5.0 7.8 11.8#

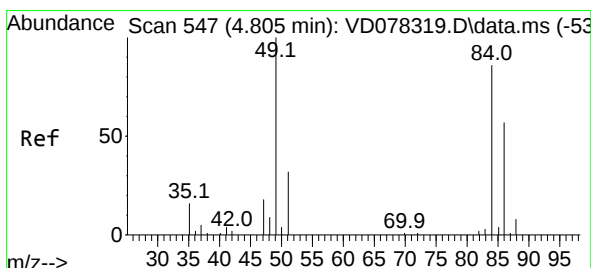
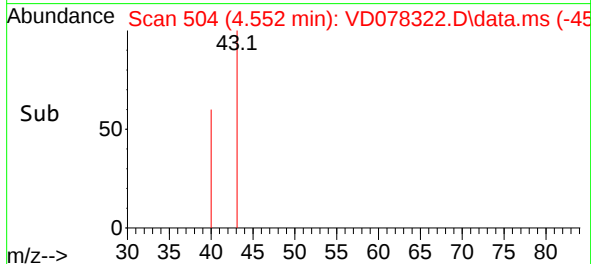
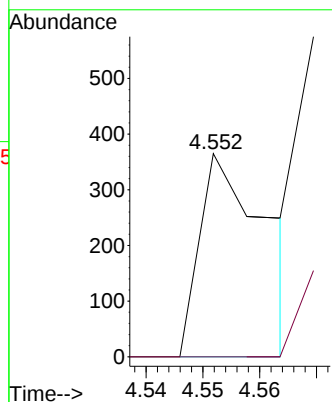
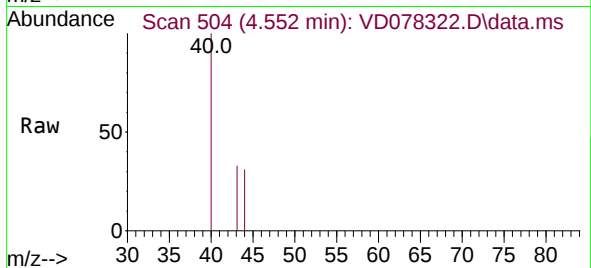




#15
Methyl Acetate
Concen: 0.184 ug/L
RT: 4.552 min Scan# 504
Delta R.T. -0.012 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

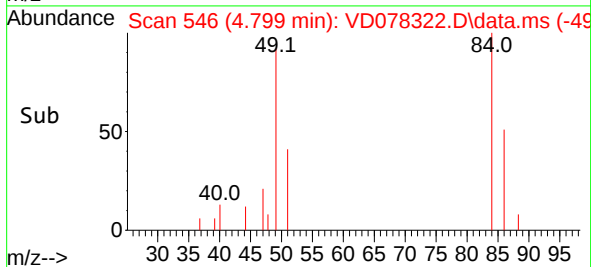
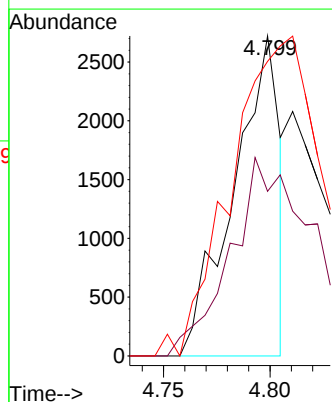
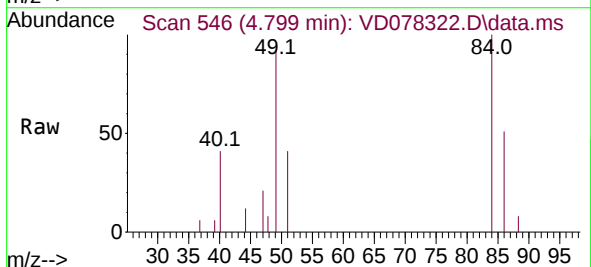
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

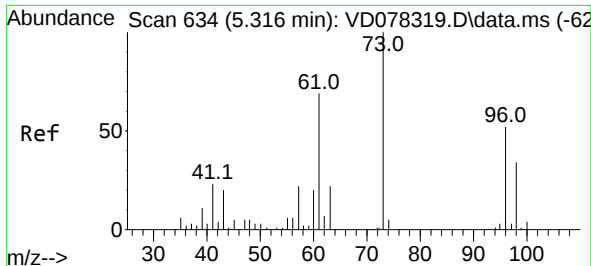
Tgt Ion: 43 Resp: 306
Ion Ratio Lower Upper
43 100
74 0.0 12.7 19.1#



#16
Methylene chloride
Concen: 1.033 ug/L
RT: 4.799 min Scan# 546
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 84 Resp: 4101
Ion Ratio Lower Upper
84 100
86 51.5 45.4 84.2
49 92.0 77.3 143.7

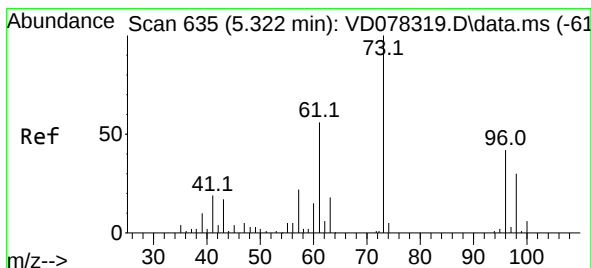
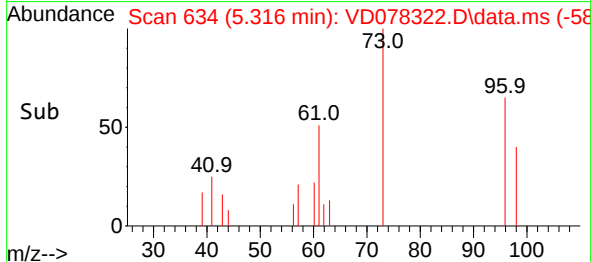
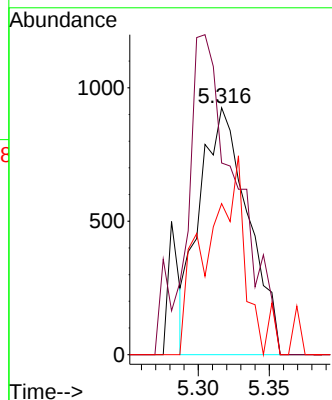
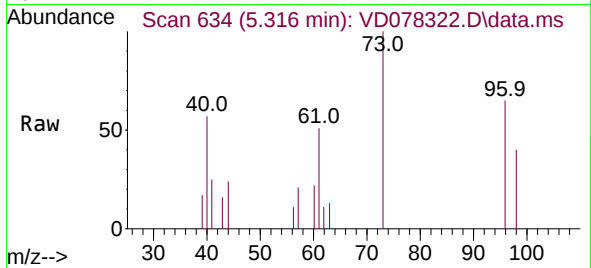




#17
trans-1,2-Dichloroethene
Concen: 0.681 ug/L
RT: 5.316 min Scan# 611
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

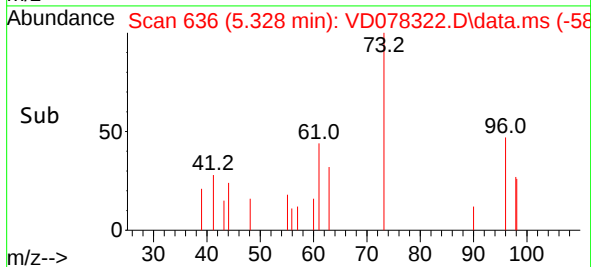
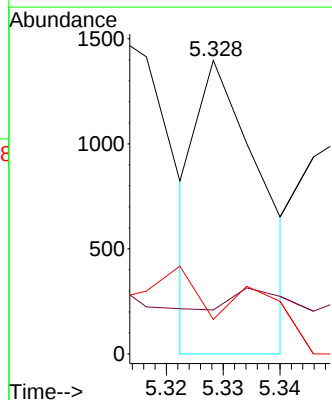
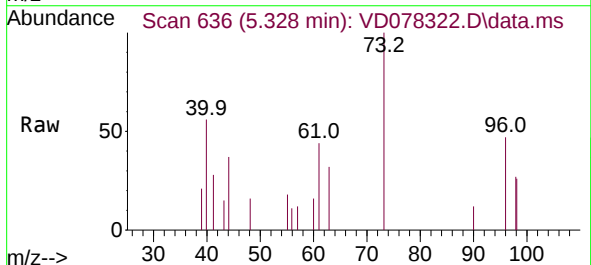
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

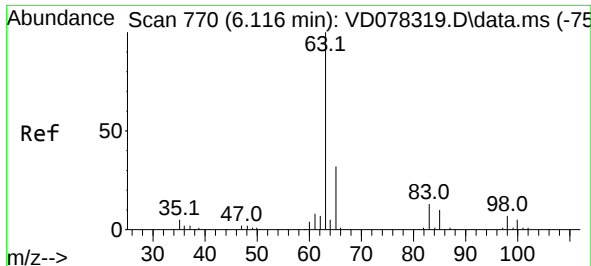
Tgt Ion: 96 Resp: 2205
Ion Ratio Lower Upper
96 100
61 77.6 82.7 153.7#
98 61.2 40.7 75.7



#18
Methyl tert-butyl Ether
Concen: 0.143 ug/L
RT: 5.328 min Scan# 636
Delta R.T. 0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 73 Resp: 1077
Ion Ratio Lower Upper
73 100
43 25.9 13.3 19.9#
57 18.8 17.2 25.8





#19

1,1-Dichloroethane

Concen: 0.477 ug/L

RT: 6.116 min Scan# 71

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07

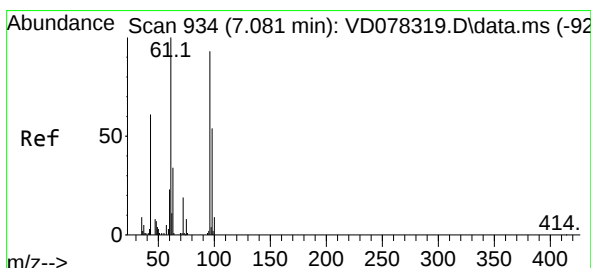
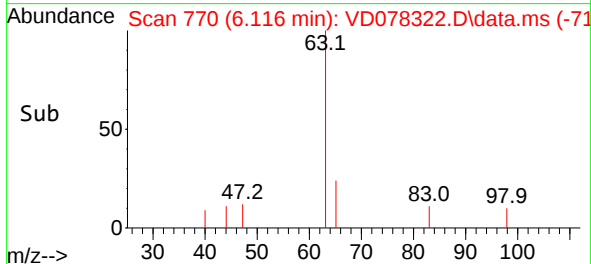
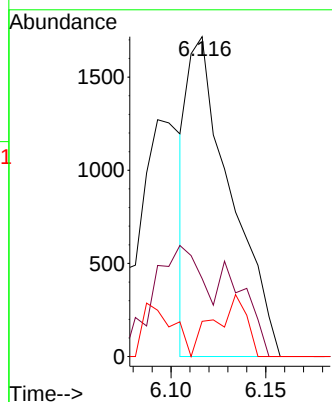
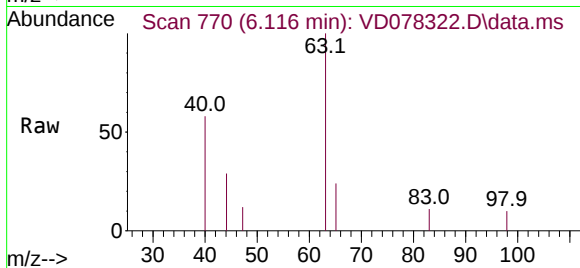
Tgt Ion: 63 Resp: 2702

Ion Ratio Lower Upper

63 100

65 24.4 21.8 40.4

83 11.0 10.1 18.9



#20

cis-1,2-Dichloroethene

Concen: 0.639 ug/L

RT: 7.069 min Scan# 932

Delta R.T. -0.012 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

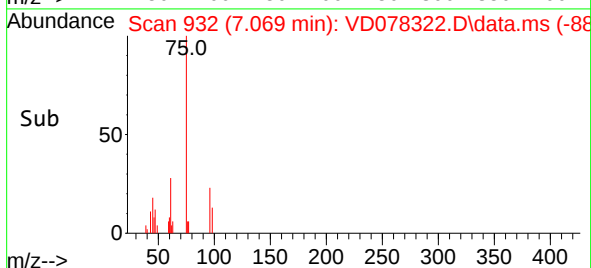
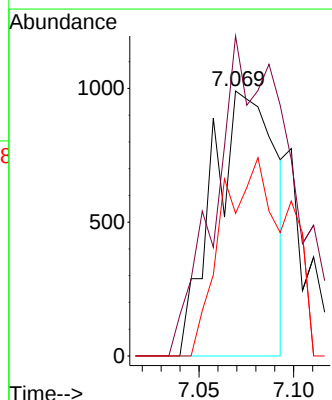
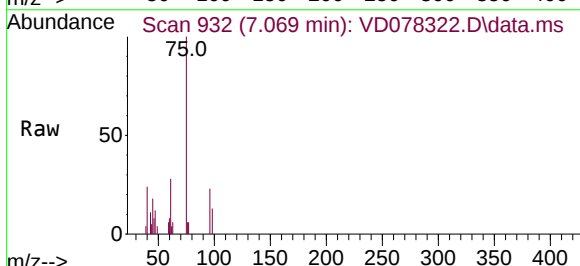
Tgt Ion: 96 Resp: 2265

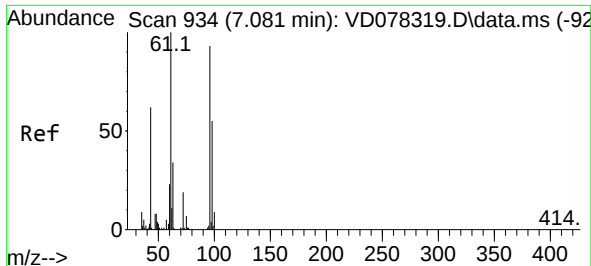
Ion Ratio Lower Upper

96 100

61 120.8 75.6 140.4

98 53.8 43.1 80.1

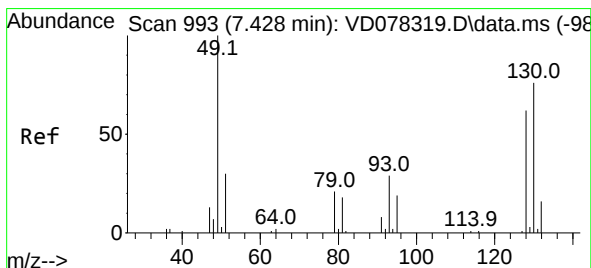
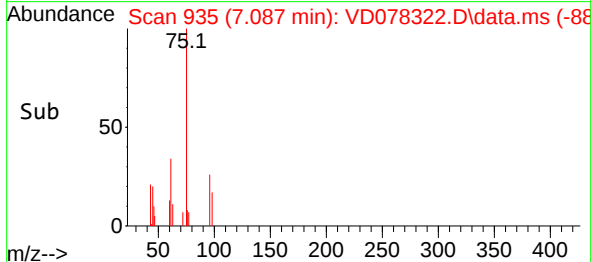
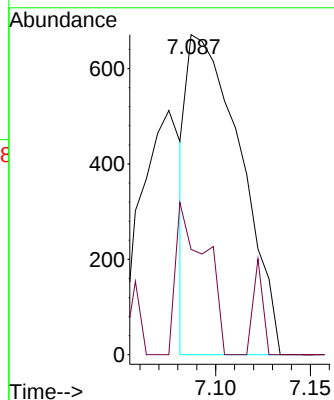
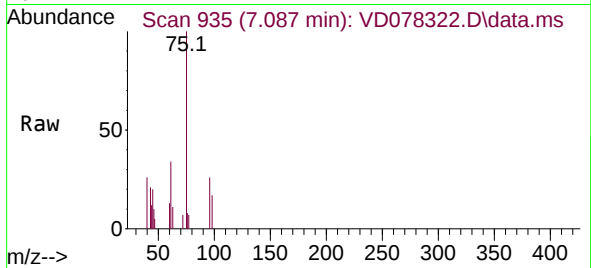




#22
2-Butanone
Concen: 0.974 ug/L
RT: 7.087 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

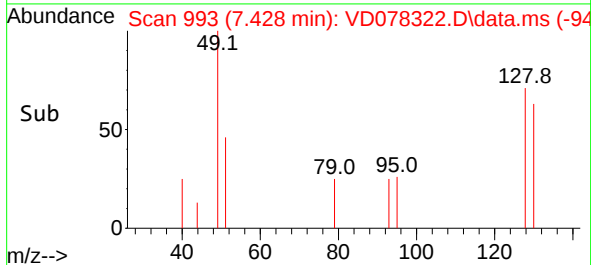
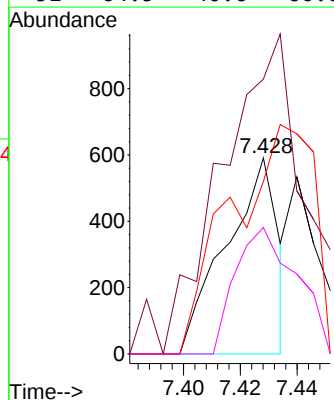
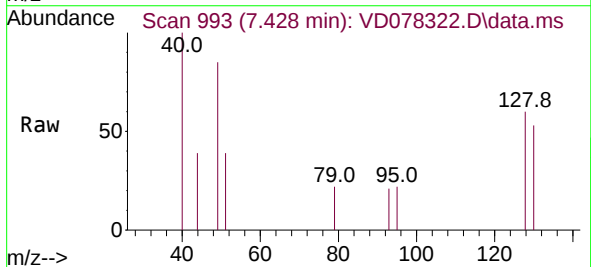
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

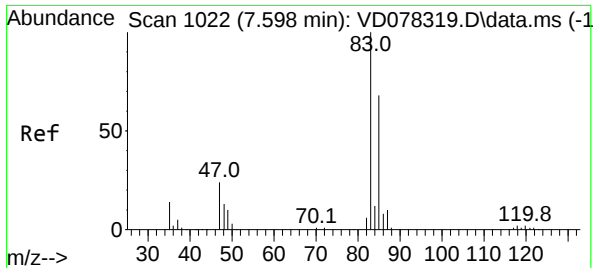
Tgt Ion: 43 Resp: 1309
Ion Ratio Lower Upper
43 100
72 20.2 15.4 46.2



#23
Bromochloromethane
Concen: 0.479 ug/L
RT: 7.428 min Scan# 993
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 128 Resp: 751
Ion Ratio Lower Upper
128 100
49 140.3 102.7 190.7
130 88.0 82.6 153.4
51 64.5 40.6 60.8#

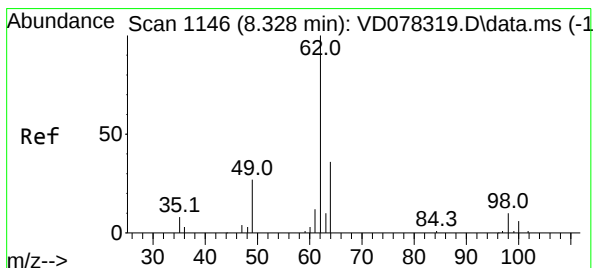
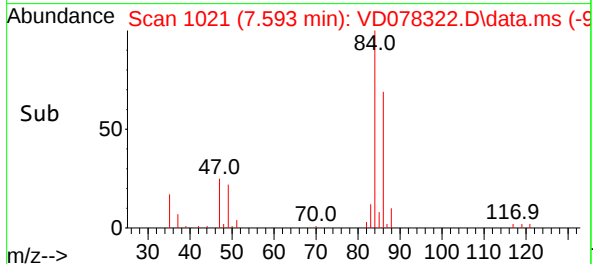
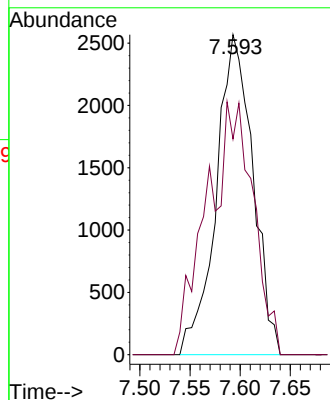
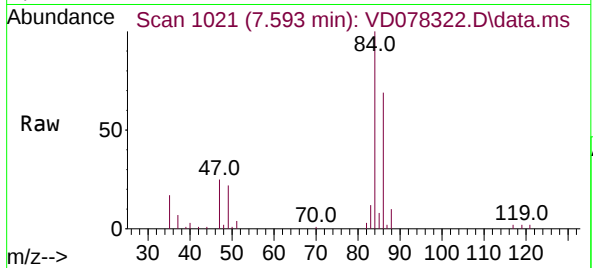




#25
Chloroform
Concen: 1.054 ug/L
RT: 7.593 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

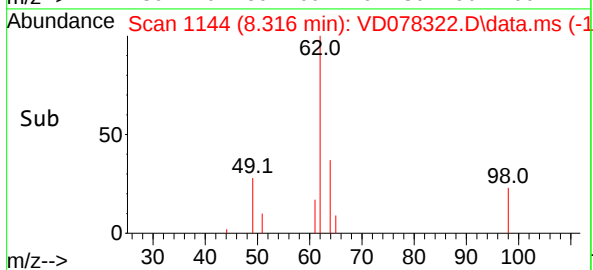
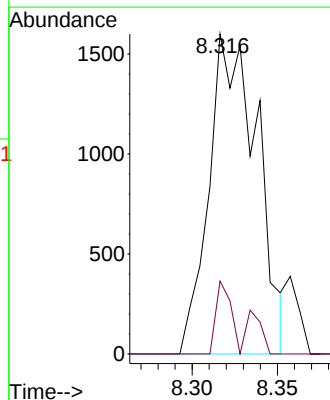
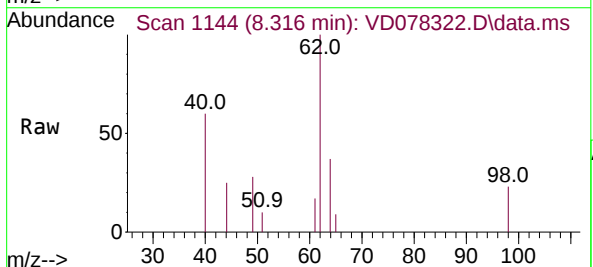
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

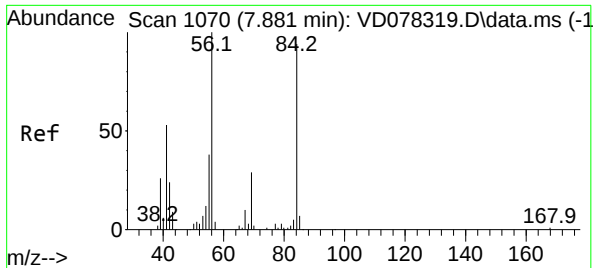
Tgt Ion: 83 Resp: 6515
Ion Ratio Lower Upper
83 100
85 67.4 44.9 83.3



#27
1,2-Dichloroethane
Concen: 0.792 ug/L
RT: 8.316 min Scan# 1144
Delta R.T. -0.012 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 62 Resp: 3142
Ion Ratio Lower Upper
62 100
98 22.8 9.5 14.3#





#29

Cyclohexane

Concen: 0.086 ug/L

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07

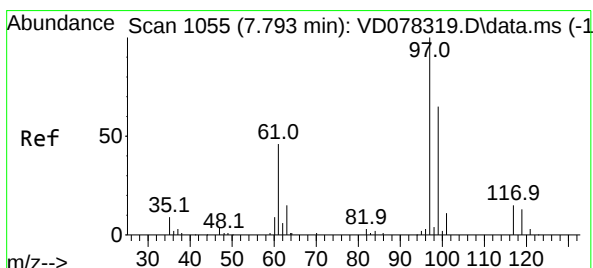
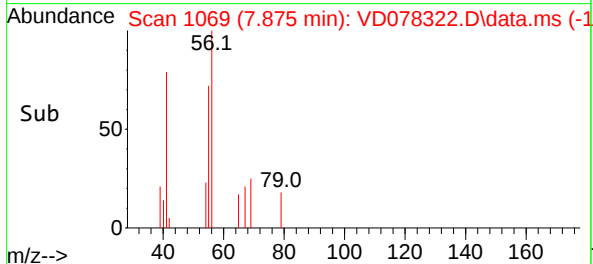
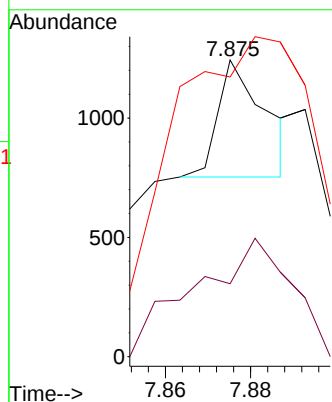
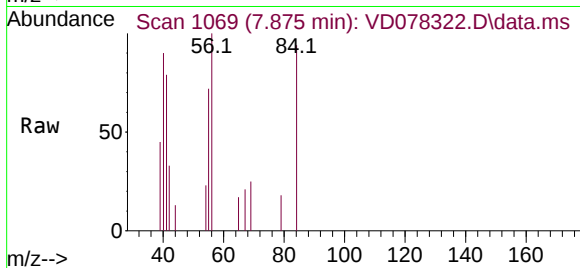
Tgt Ion: 56 Resp: 381

Ion Ratio Lower Upper

56 100

69 204.7 23.3 34.9#

84 449.3 74.7 112.1#



#30

1,1,1-Trichloroethane

Concen: 0.764 ug/L

RT: 7.793 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

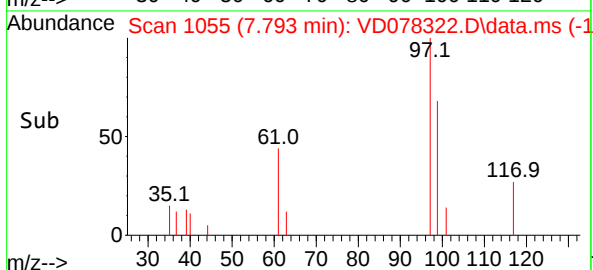
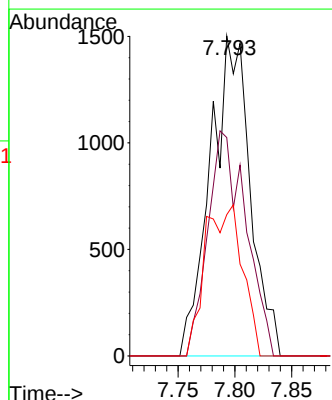
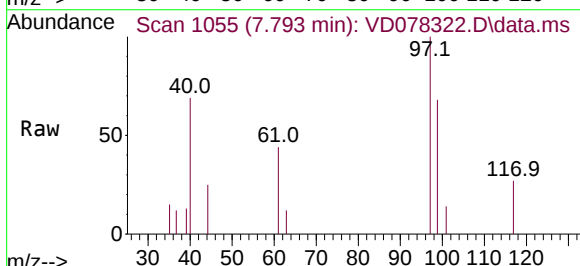
Tgt Ion: 97 Resp: 3666

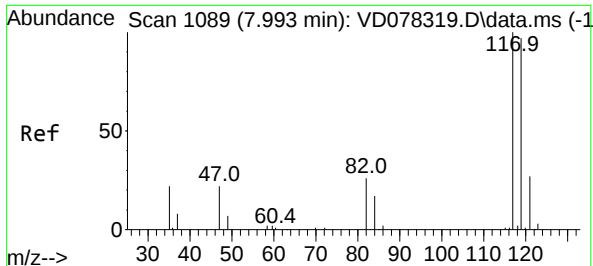
Ion Ratio Lower Upper

97 100

99 67.0 50.7 76.1

61 22.6 34.4 51.6#

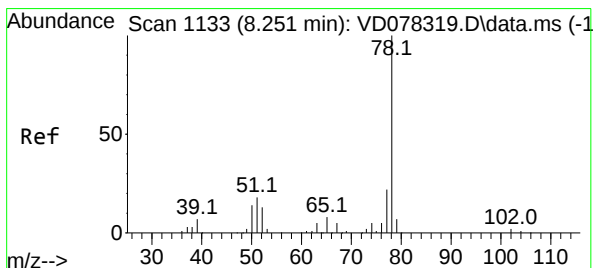
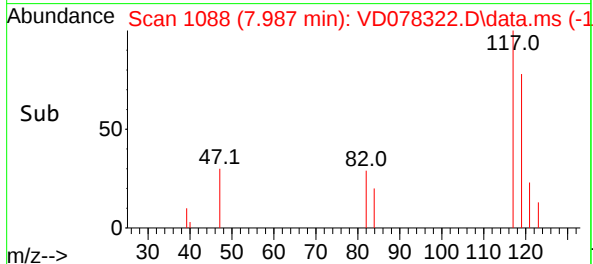
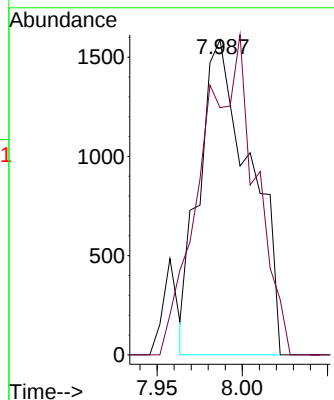
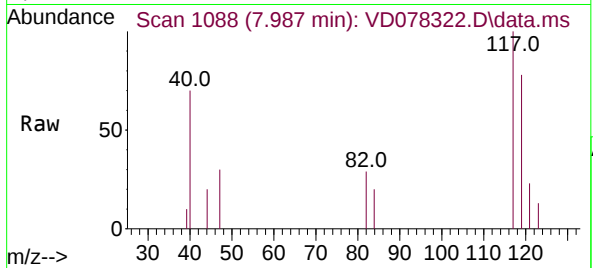




#31
Carbon tetrachloride
Concen: 0.785 ug/L
RT: 7.987 min Scan# 1107
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

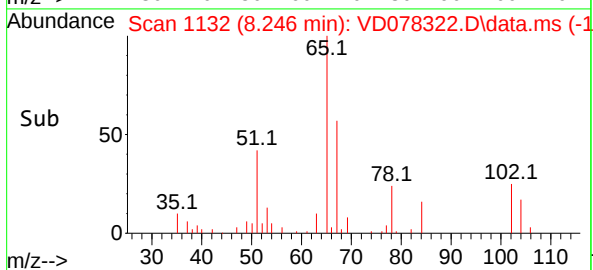
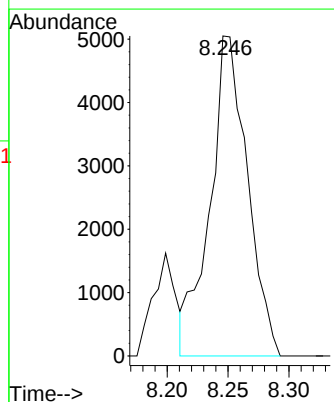
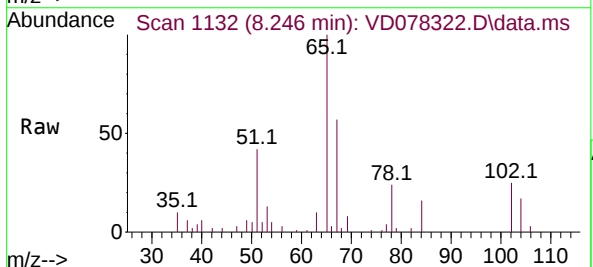
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

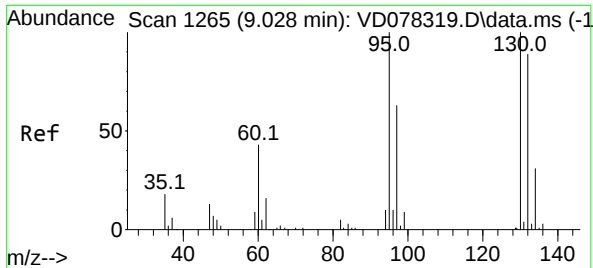
Tgt Ion:117 Resp: 3318
Ion Ratio Lower Upper
117 100
119 49.9 77.0 115.4#



#33
Benzene
Concen: 0.818 ug/L
RT: 8.246 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 78 Resp: 10801



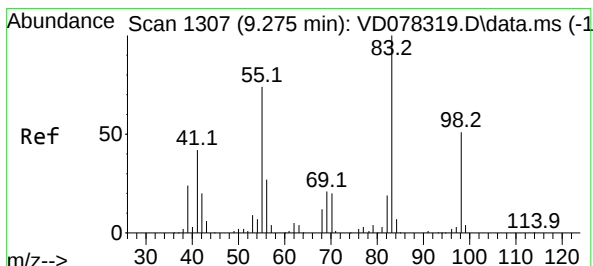
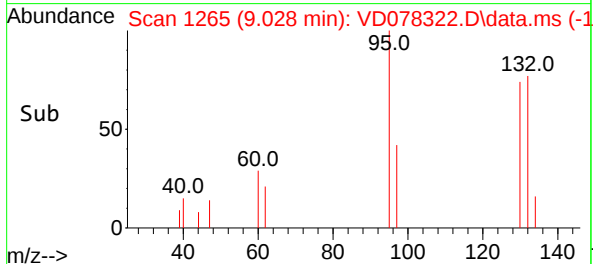
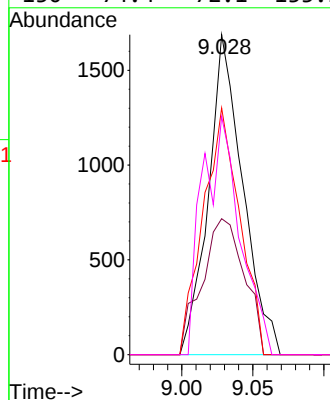
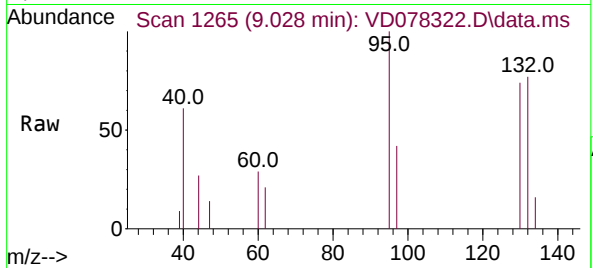


#34
Trichloroethene
Concen: 0.852 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

Tgt Ion: 95 Resp: 2841

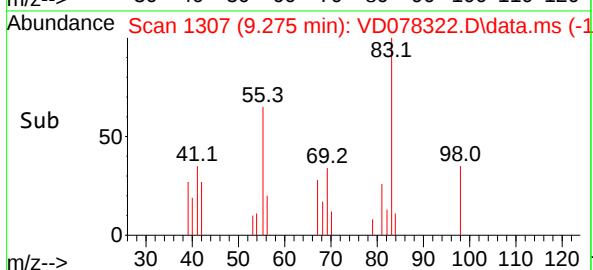
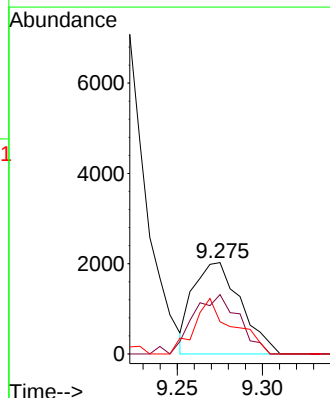
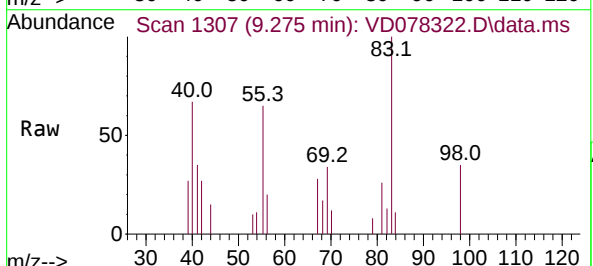
Ion	Ratio	Lower	Upper
95	100		
97	42.5	46.9	87.1#
132	77.1	73.7	136.9
130	74.4	72.1	133.9

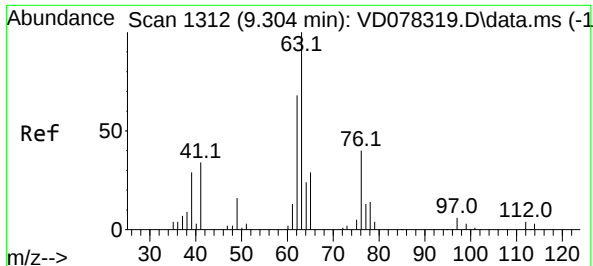


#35
Methylcyclohexane
Concen: 0.754 ug/L
RT: 9.275 min Scan# 1307
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 83 Resp: 3934

Ion	Ratio	Lower	Upper
83	100		
55	61.8	56.2	84.4
98	49.4	41.2	61.8

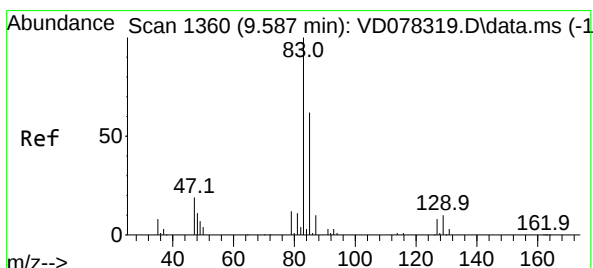
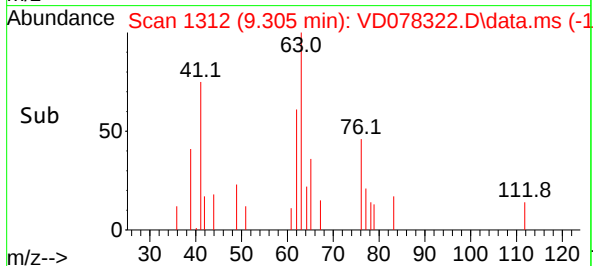
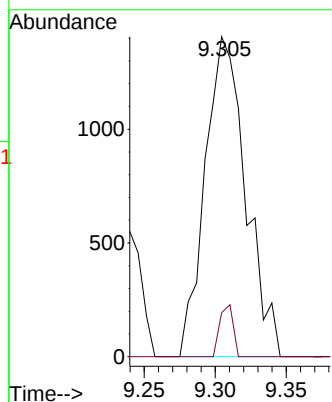
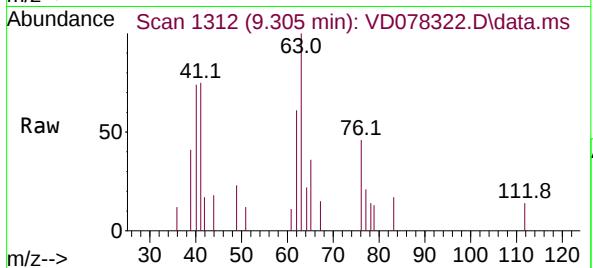




#37
1,2-Dichloropropane
Concen: 0.807 ug/L
RT: 9.305 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

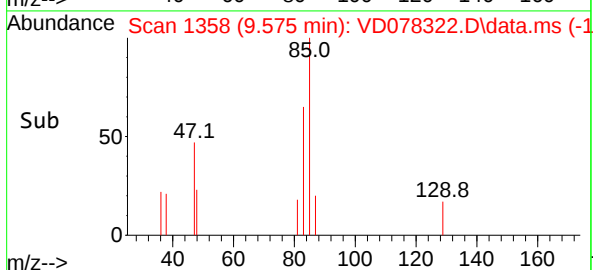
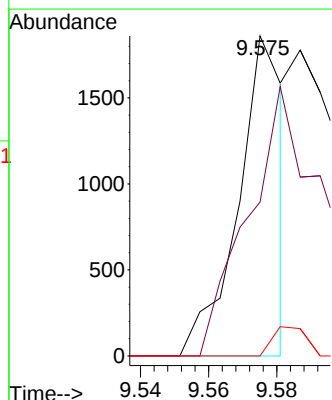
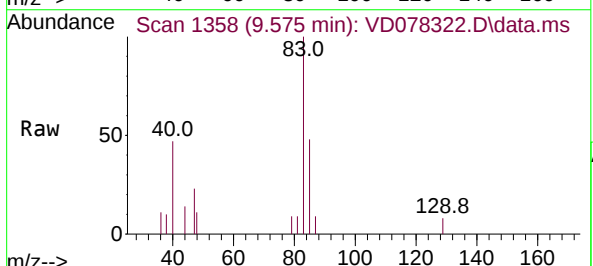
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

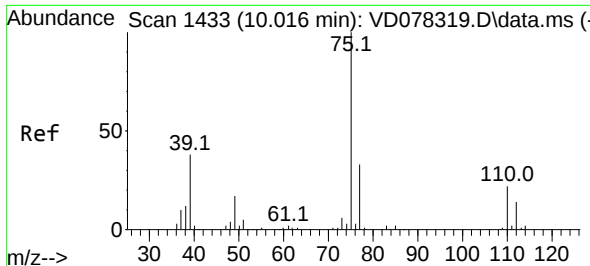
Tgt Ion: 63 Resp: 2807
Ion Ratio Lower Upper
63 100
112 5.3 3.4 5.2#



#38
Bromodichloromethane
Concen: 0.384 ug/L
RT: 9.575 min Scan# 1358
Delta R.T. -0.012 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion: 83 Resp: 1743
Ion Ratio Lower Upper
83 100
85 48.1 46.6 86.6
127 0.0 8.1 12.1#

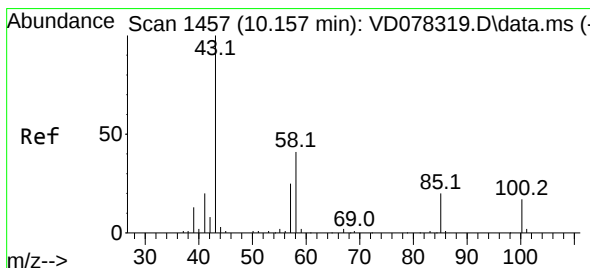
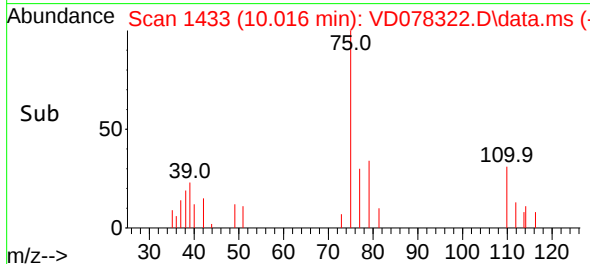
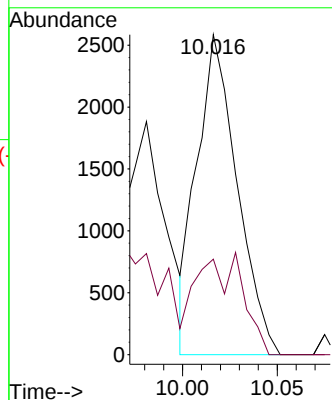
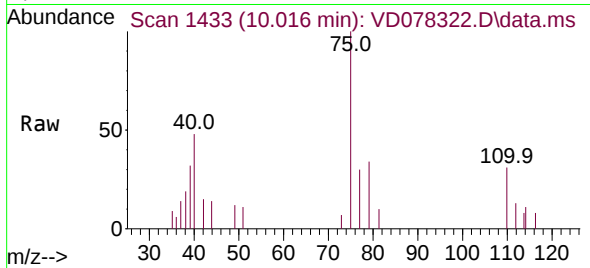




#39
 cis-1,3-Dichloropropene
 Concen: 0.704 ug/L
 RT: 10.016 min Scan# 1433
 Delta R.T. 0.000 min
 Lab File: VD078322.D
 Acq: 02 Feb 2024 13:21

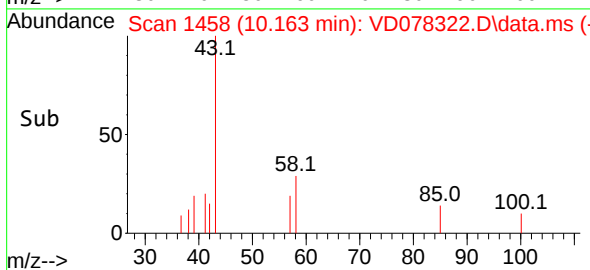
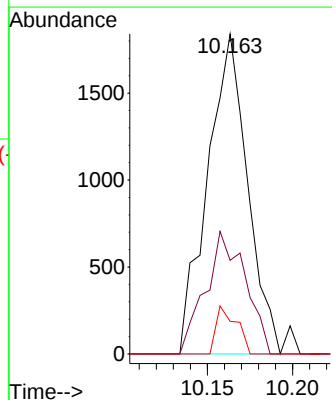
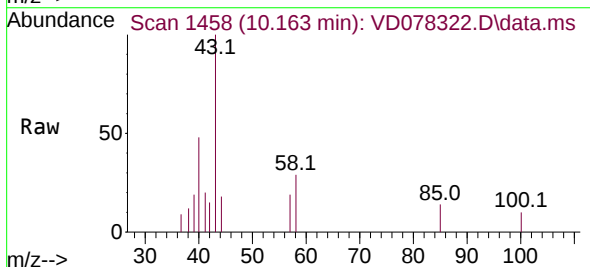
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07

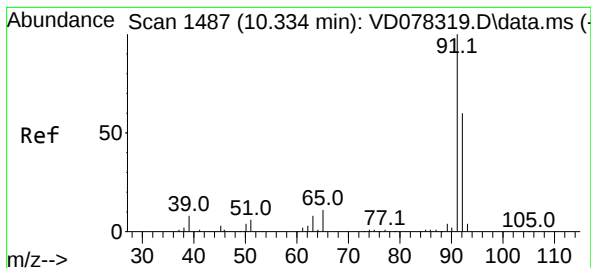
Tgt Ion: 75 Resp: 3811
 Ion Ratio Lower Upper
 75 100
 77 29.8 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 1.390 ug/L
 RT: 10.163 min Scan# 1458
 Delta R.T. 0.006 min
 Lab File: VD078322.D
 Acq: 02 Feb 2024 13:21

Tgt Ion: 43 Resp: 3002
 Ion Ratio Lower Upper
 43 100
 58 38.2 34.0 51.0
 100 7.6 13.2 19.8#





#42

Toluene

Concen: 0.749 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

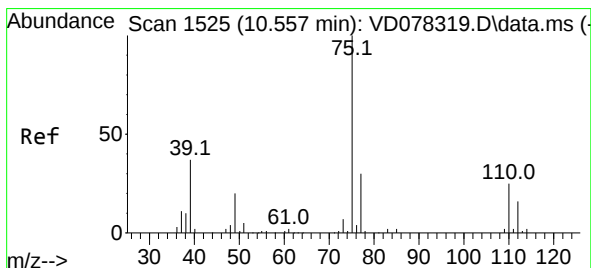
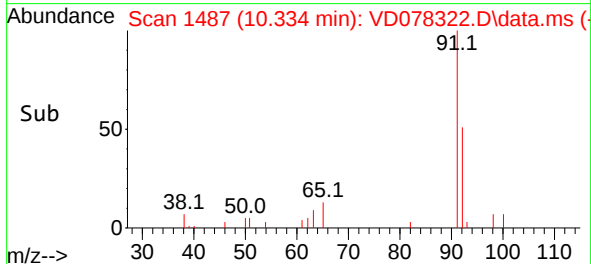
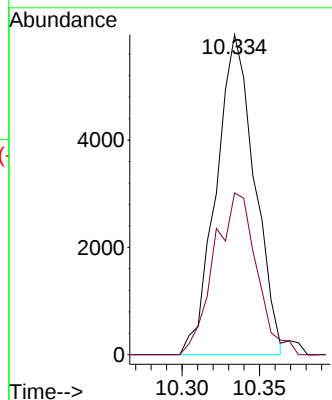
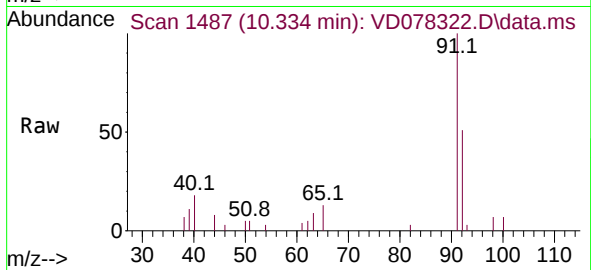
MDL-SOIL-QT4-2023-07

Tgt Ion: 91 Resp: 10287

Ion Ratio Lower Upper

91 100

92 50.6 39.5 73.4



#44

trans-1,3-Dichloropropene

Concen: 0.775 ug/L

RT: 10.552 min Scan# 1524

Delta R.T. -0.006 min

Lab File: VD078322.D

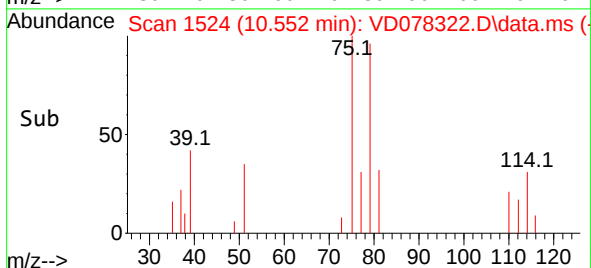
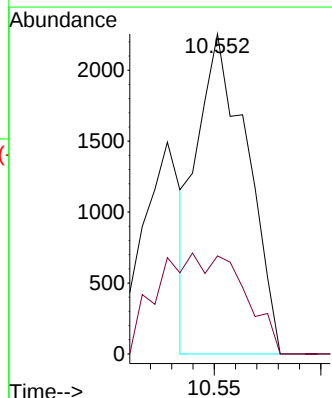
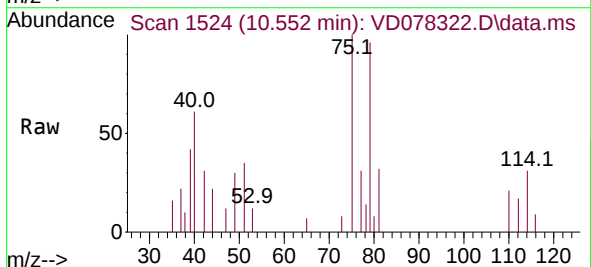
Acq: 02 Feb 2024 13:21

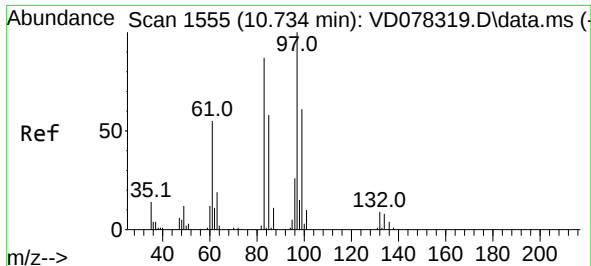
Tgt Ion: 75 Resp: 3668

Ion Ratio Lower Upper

75 100

77 30.6 20.7 38.5

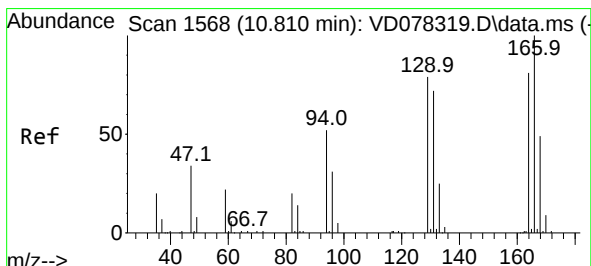
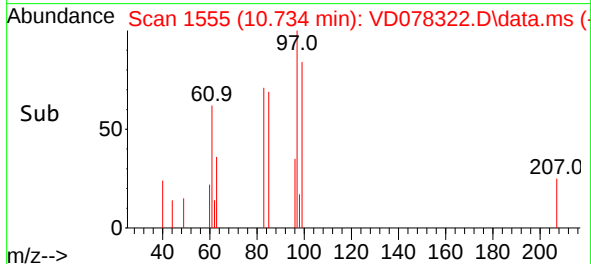
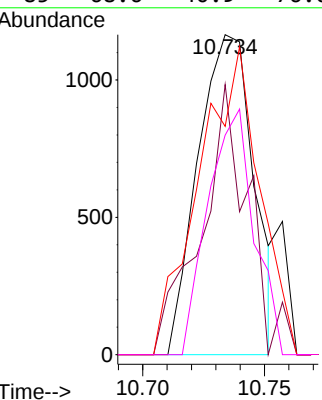
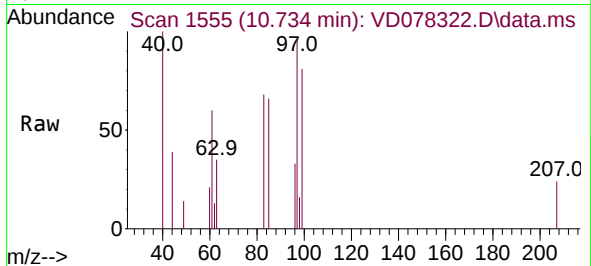




#45
1,1,2-Trichloroethane
Concen: 0.675 ug/L
RT: 10.734 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

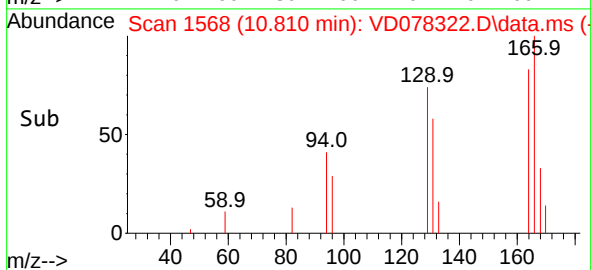
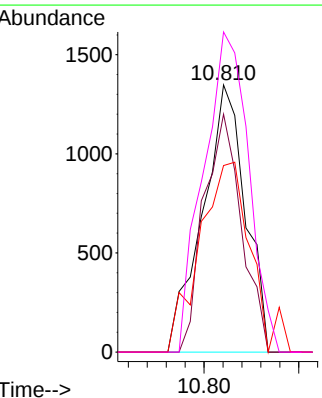
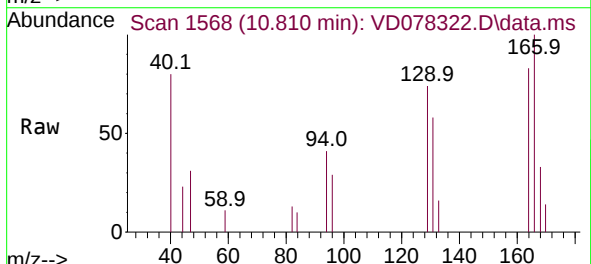
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

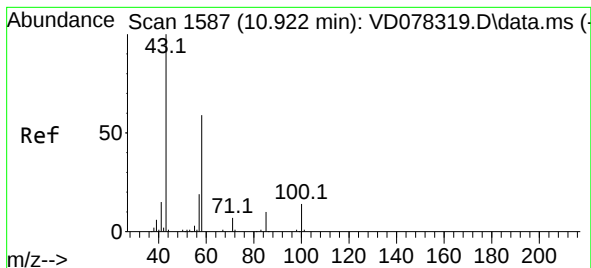
Tgt Ion:	97	Resp:	1870
Ion	Ratio	Lower	Upper
97	100		
99	84.4	45.4	84.4#
83	71.3	59.5	110.5
85	68.6	40.9	76.0



#46
Tetrachloroethene
Concen: 0.923 ug/L
RT: 10.810 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion:	164	Resp:	2113
Ion	Ratio	Lower	Upper
164	100		
129	89.0	66.7	123.9
131	69.8	65.2	121.0
166	119.8	88.5	164.3





#48

2-Hexanone

Concen: 1.426 ug/L

RT: 10.928 min Scan# 1587

Delta R.T. 0.006 min

Lab File: VD078322.D

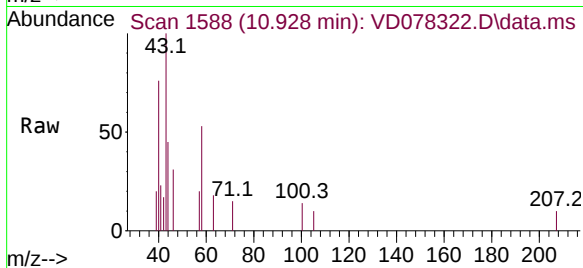
Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07



Tgt Ion: 43 Resp: 2512

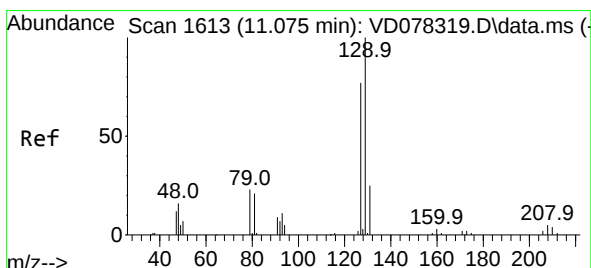
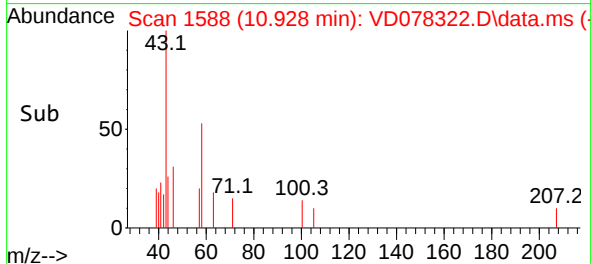
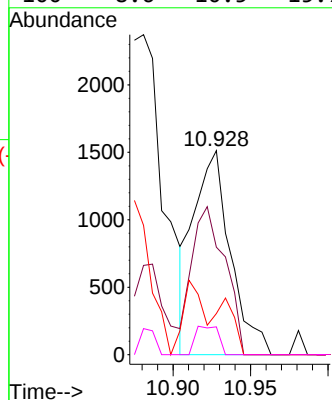
Ion Ratio Lower Upper

43 100

58 65.1 48.5 72.7

57 14.1 15.6 23.4#

100 8.6 10.5 15.7#



#49

Dibromochloromethane

Concen: 0.830 ug/L

RT: 11.075 min Scan# 1613

Delta R.T. 0.000 min

Lab File: VD078322.D

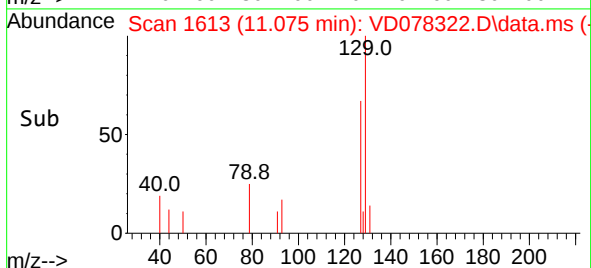
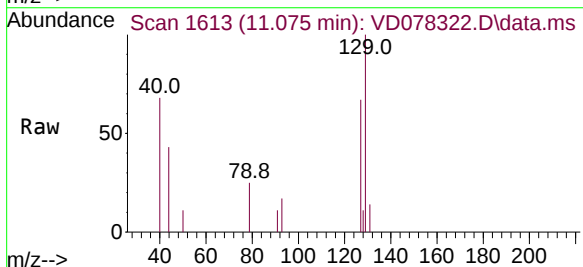
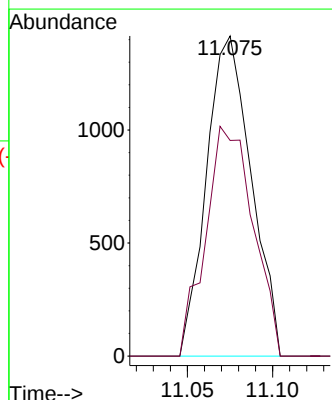
Acq: 02 Feb 2024 13:21

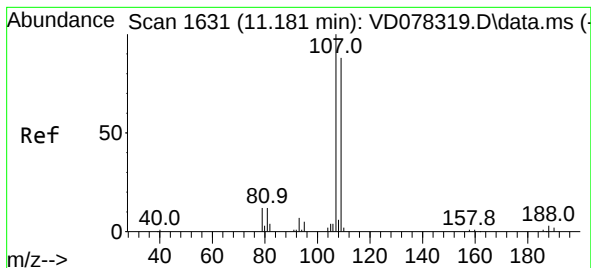
Tgt Ion: 129 Resp: 2586

Ion Ratio Lower Upper

129 100

127 67.4 52.7 97.9





#50

1,2-Dibromoethane

Concen: 0.742 ug/L

RT: 11.181 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

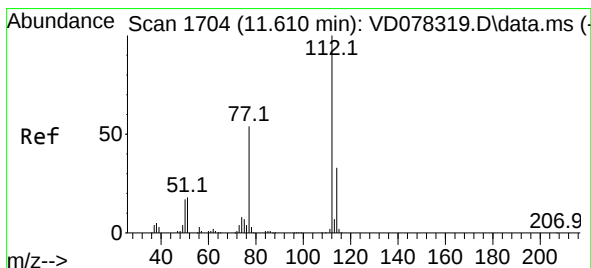
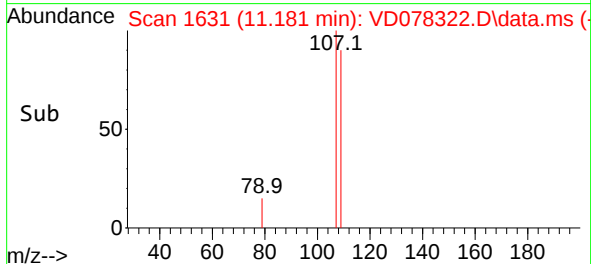
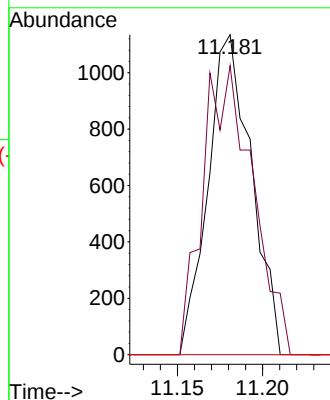
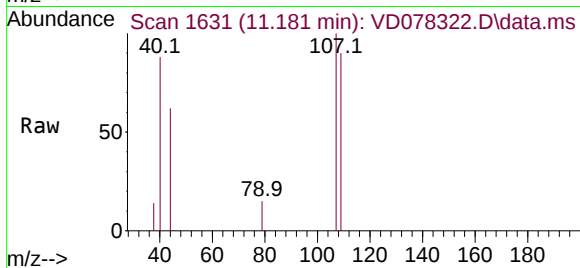
Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07

Tgt Ion:	107	Resp:	2005
Ion	Ratio	Lower	Upper
107	100		
109	90.3	64.0	118.8
188	0.0	3.1	4.7#



#51

Chlorobenzene

Concen: 0.814 ug/L

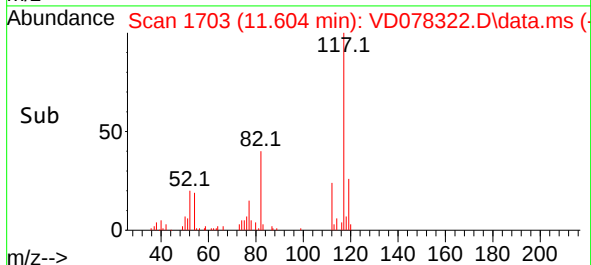
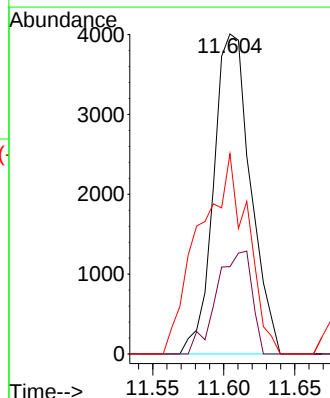
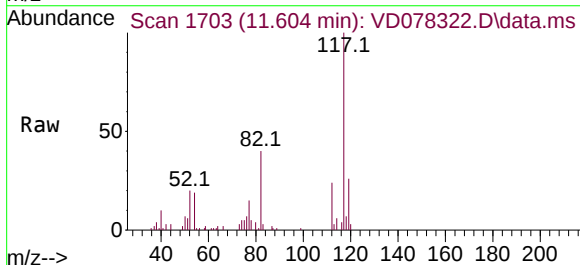
RT: 11.604 min Scan# 1703

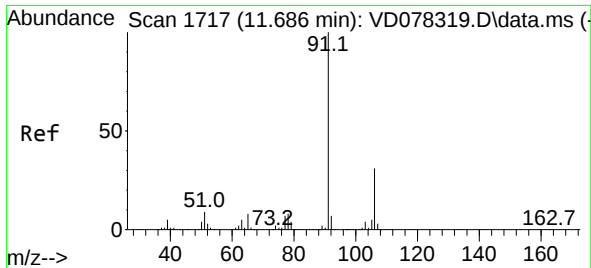
Delta R.T. -0.006 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Tgt Ion:	112	Resp:	7238
Ion	Ratio	Lower	Upper
112	100		
114	27.3	22.3	41.3
77	62.6	42.3	63.5

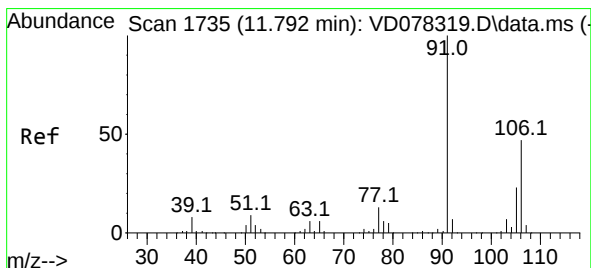
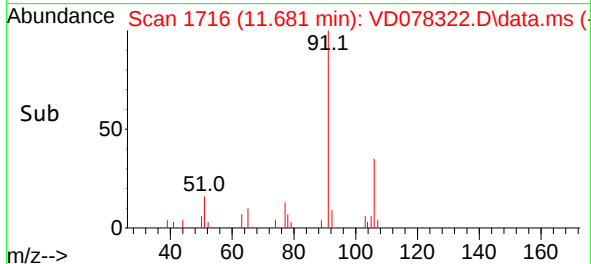
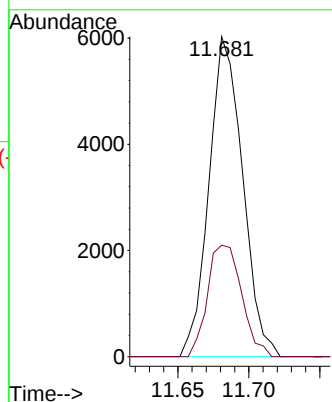
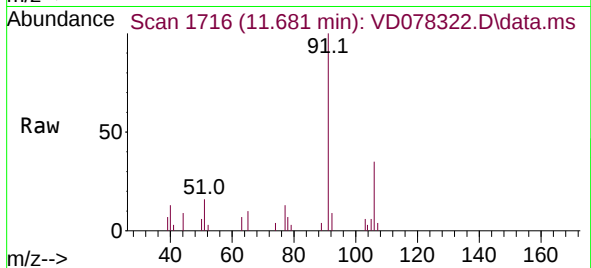




#52
Ethylbenzene
Concen: 0.673 ug/L
RT: 11.681 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

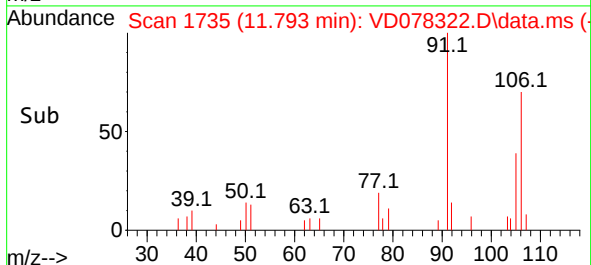
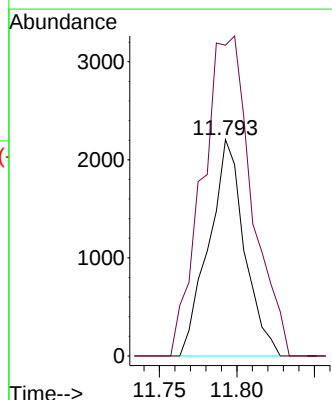
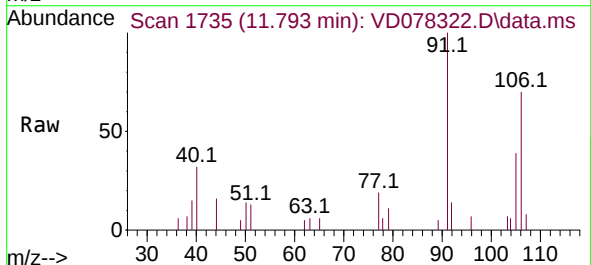
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

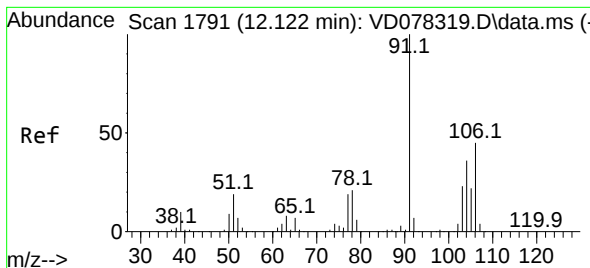
Tgt Ion: 91 Resp: 9929
Ion Ratio Lower Upper
91 100
106 34.8 22.5 41.7



#53
m,p-Xylene
Concen: 0.621 ug/L
RT: 11.793 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion:106 Resp: 3521
Ion Ratio Lower Upper
106 100
91 143.5 138.3 256.8





#54

o-Xylene

Concen: 0.723 ug/L

RT: 12.122 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

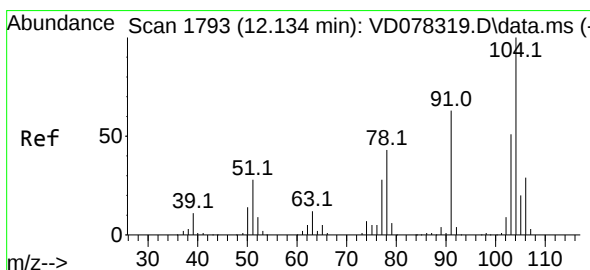
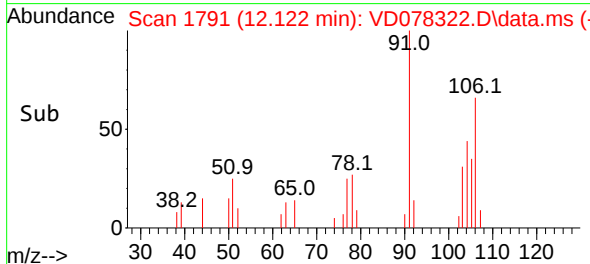
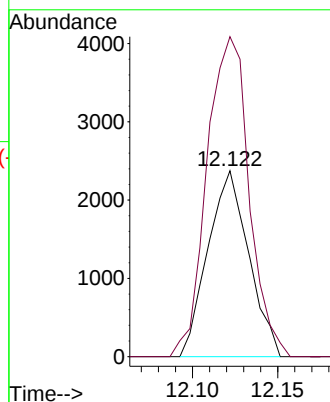
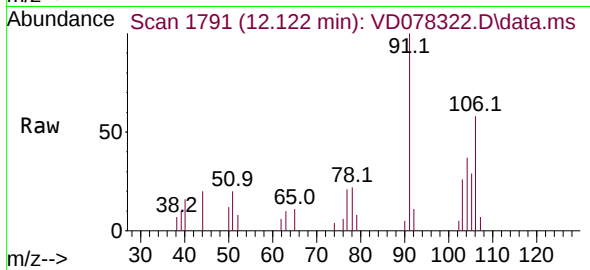
MDL-SOIL-QT4-2023-07

Tgt Ion:106 Resp: 3950

Ion Ratio Lower Upper

106 100

91 172.1 148.0 274.8



#55

Styrene

Concen: 0.321 ug/L

RT: 12.128 min Scan# 1792

Delta R.T. -0.006 min

Lab File: VD078322.D

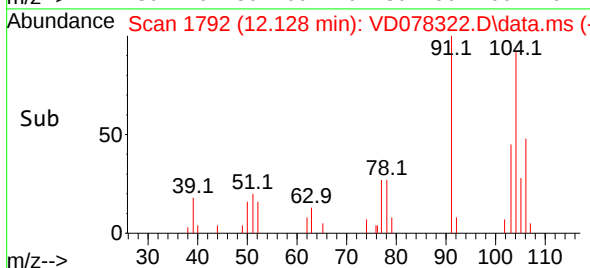
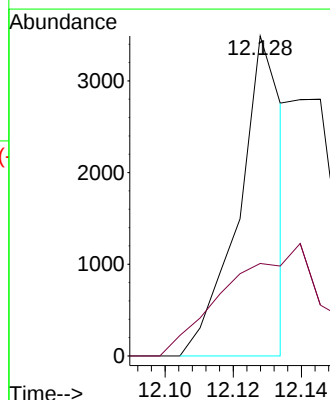
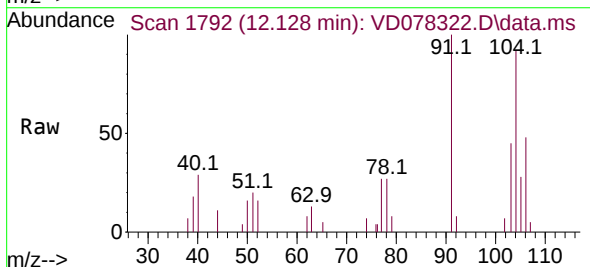
Acq: 02 Feb 2024 13:21

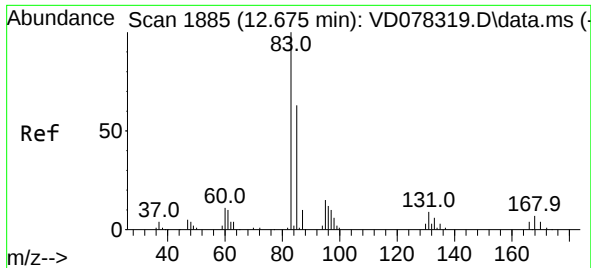
Tgt Ion:104 Resp: 3161

Ion Ratio Lower Upper

104 100

78 28.9 29.5 54.7#

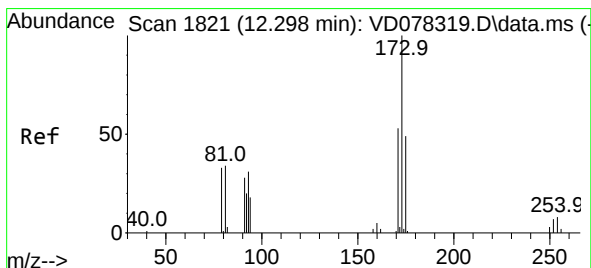
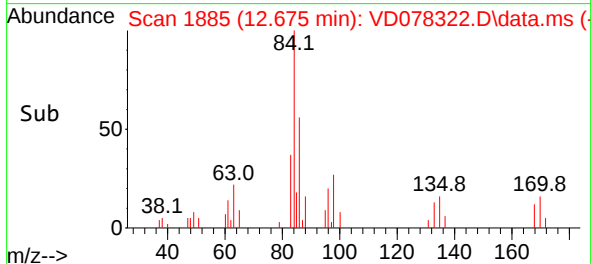
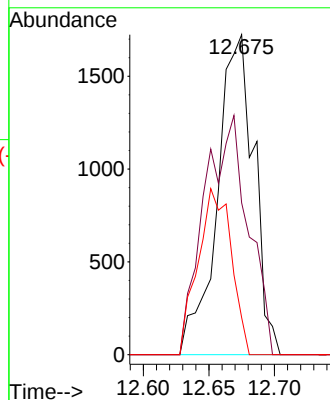
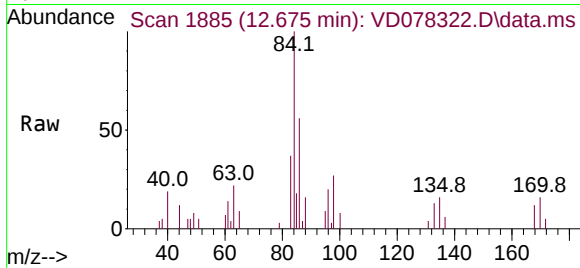




#57
1,1,2,2-Tetrachloroethane
Concen: 0.944 ug/L
RT: 12.675 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

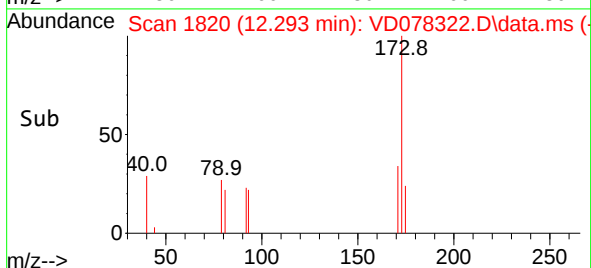
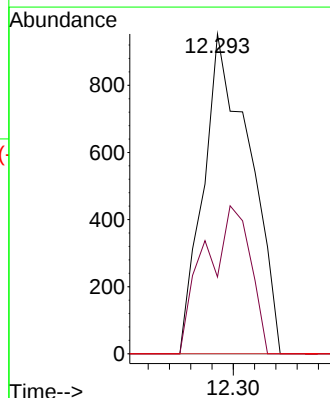
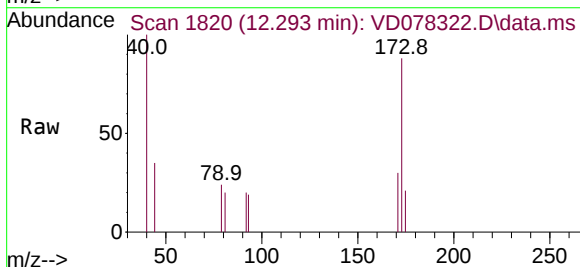
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07

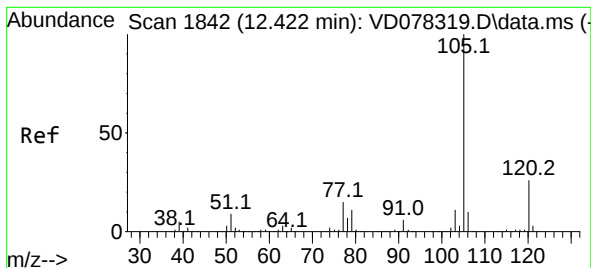
Tgt Ion:	83	Resp:	3354
Ion Ratio	Lower	Upper	
83	100		
85	47.4	42.6	79.0
131	11.6	6.0	9.0#



#59
Bromoform
Concen: 0.867 ug/L
RT: 12.293 min Scan# 1820
Delta R.T. -0.006 min
Lab File: VD078322.D
Acq: 02 Feb 2024 13:21

Tgt Ion:	173	Resp:	1438
Ion Ratio	Lower	Upper	
173	100		
175	25.9	40.2	60.4#
254	0.0	6.6	9.8#





#60

Isopropylbenzene

Concen: 0.626 ug/L

RT: 12.422 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

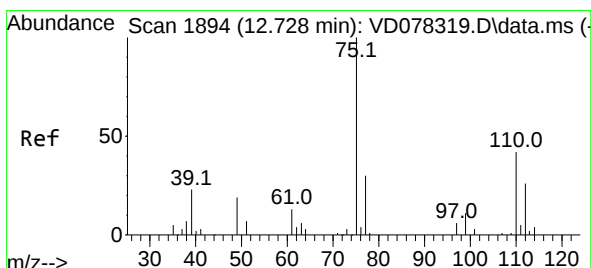
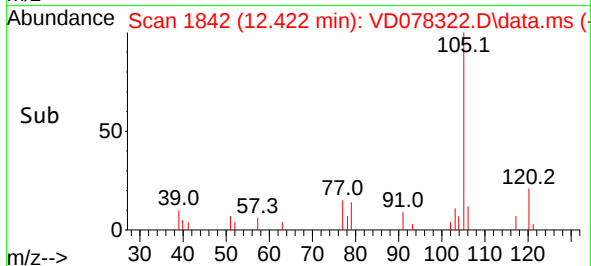
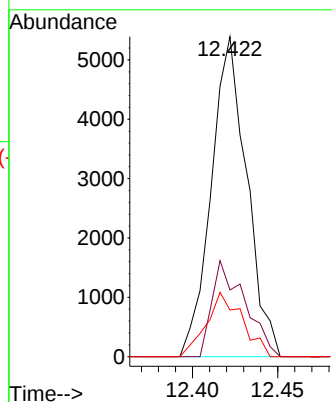
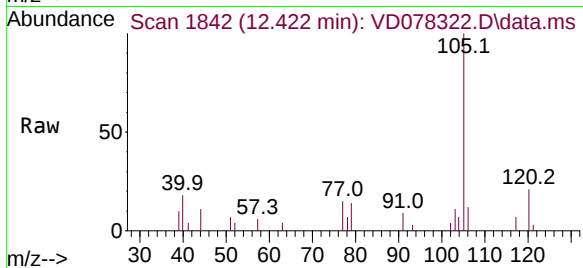
Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07

Tgt Ion:	105	Resp:	7815
Ion	Ratio	Lower	Upper
105	100		
120	27.7	20.4	30.6
77	20.2	12.4	18.6



#61

1,2,3-Trichloropropane

Concen: 0.878 ug/L

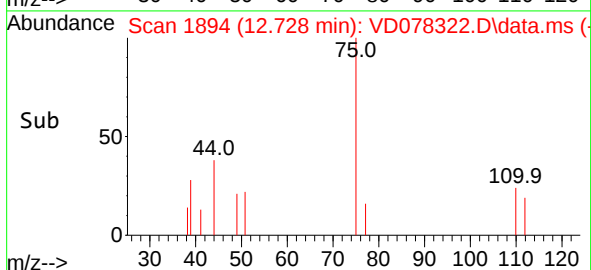
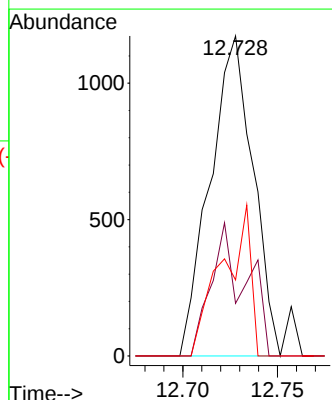
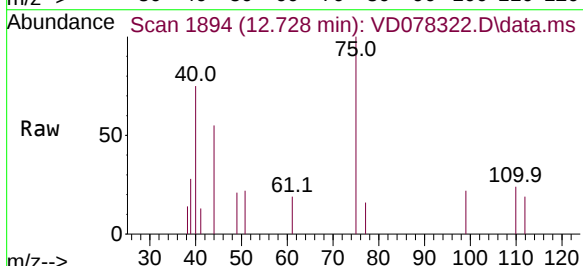
RT: 12.728 min Scan# 1894

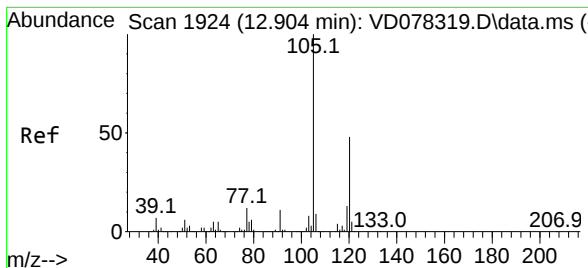
Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Tgt Ion:	75	Resp:	1851
Ion	Ratio	Lower	Upper
75	100		
77	11.9	26.5	39.7
110	10.5	31.8	47.8





#62

1,3,5-Trimethylbenzene

Concen: 0.645 ug/L

RT: 12.898 min Scan# 1923

Delta R.T. -0.006 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

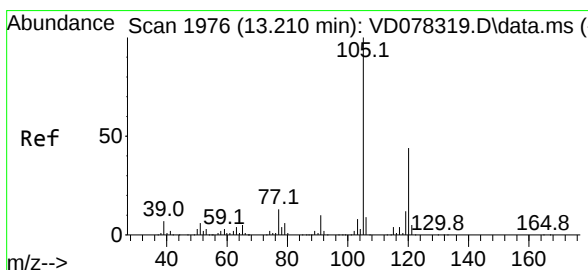
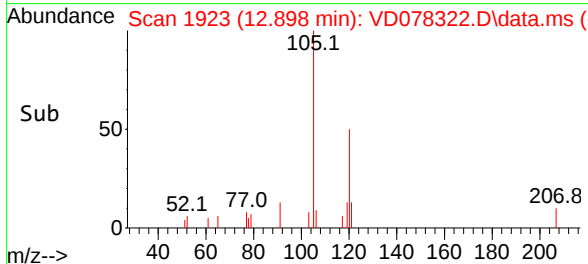
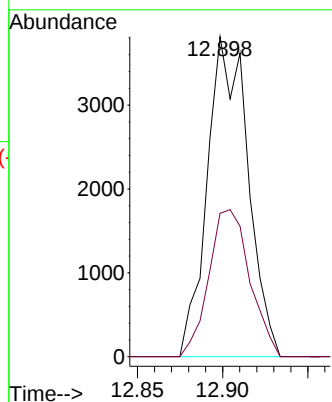
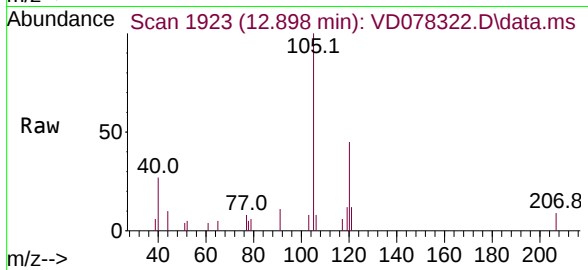
MDL-SOIL-QT4-2023-07

Tgt Ion:105 Resp: 6306

Ion Ratio Lower Upper

105 100

120 46.5 39.5 59.3



#63

1,2,4-Trimethylbenzene

Concen: 0.645 ug/L

RT: 13.210 min Scan# 1976

Delta R.T. 0.000 min

Lab File: VD078322.D

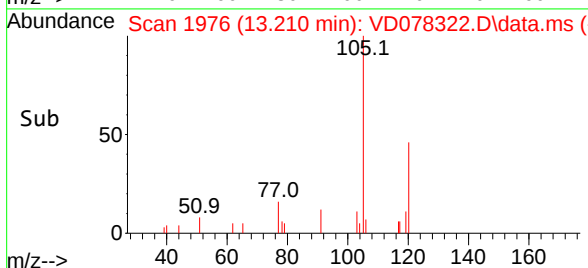
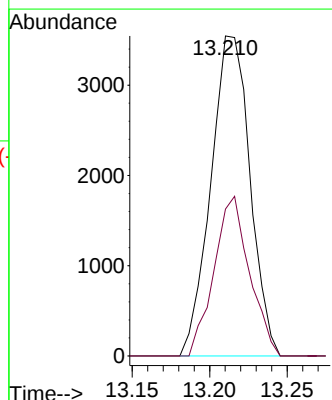
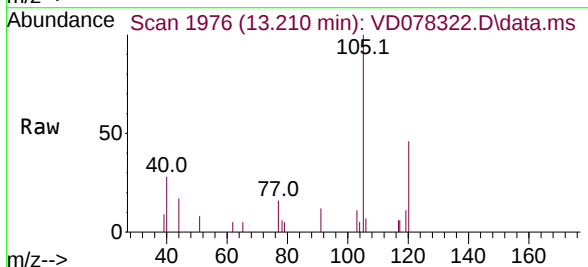
Acq: 02 Feb 2024 13:21

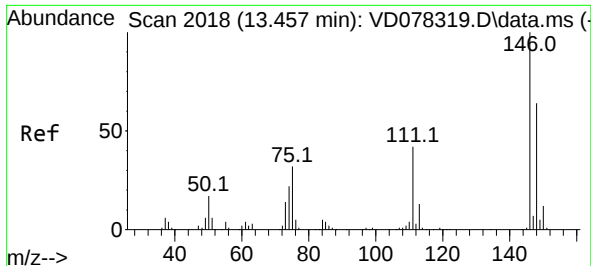
Tgt Ion:105 Resp: 6240

Ion Ratio Lower Upper

105 100

120 45.1 37.0 55.4





#64

1,3-Dichlorobenzene

Concen: 0.724 ug/L

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07

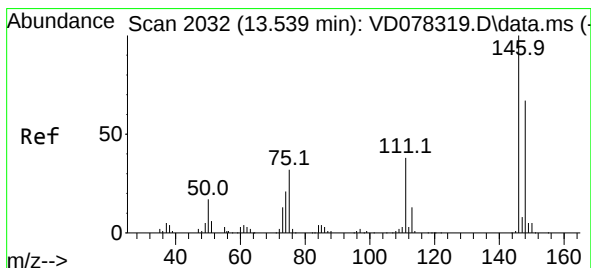
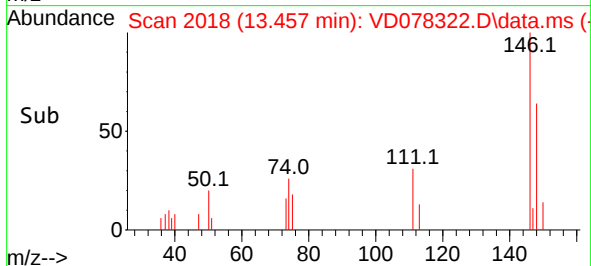
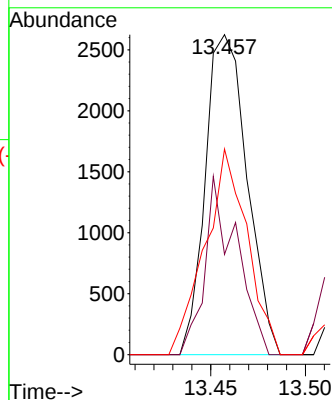
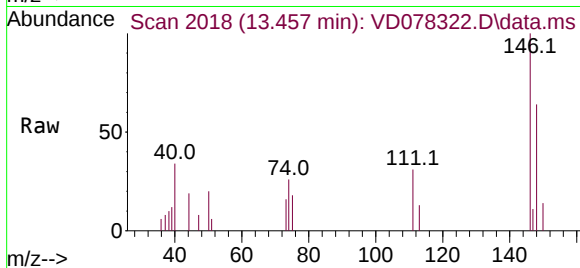
Tgt Ion:146 Resp: 4037

Ion Ratio Lower Upper

146 100

111 31.3 28.6 53.0

148 64.3 46.5 86.3



#65

1,4-Dichlorobenzene

Concen: 0.742 ug/L

RT: 13.540 min Scan# 2032

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

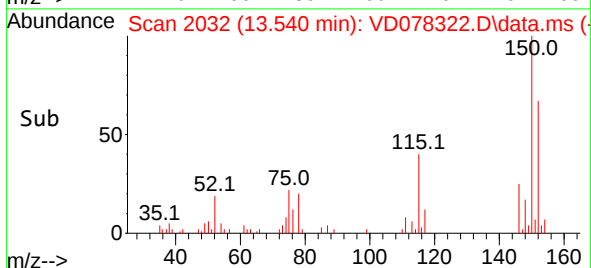
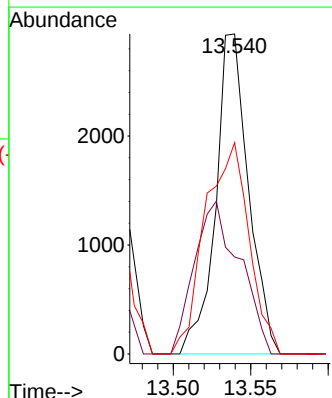
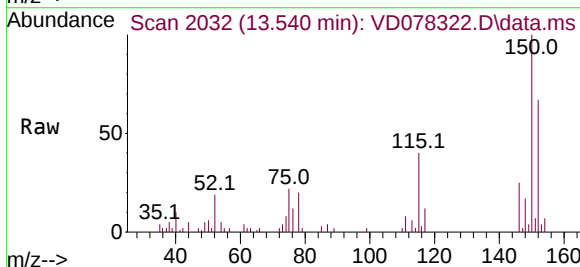
Tgt Ion:146 Resp: 4330

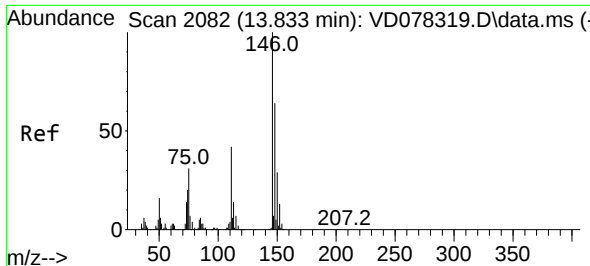
Ion Ratio Lower Upper

146 100

111 30.3 26.4 49.0

148 66.0 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 0.938 ug/L

RT: 13.834 min Scan# 2082

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07

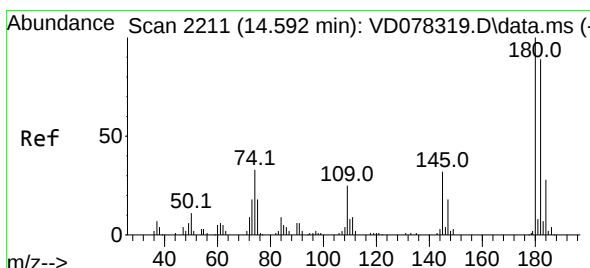
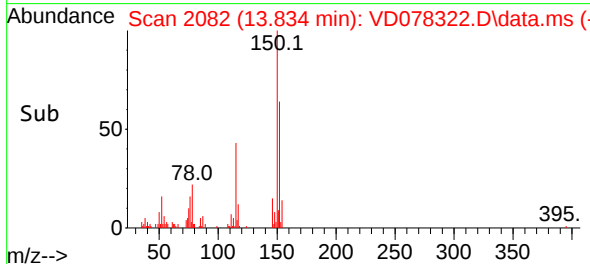
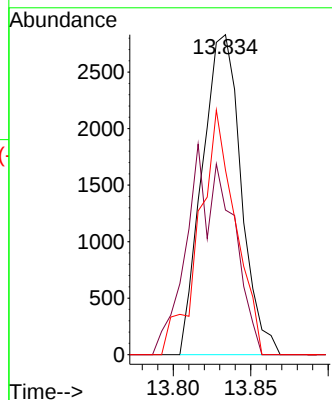
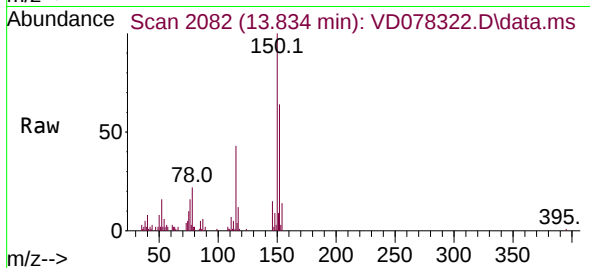
Tgt Ion:146 Resp: 4946

Ion Ratio Lower Upper

146 100

111 45.2 33.6 50.4

148 57.7 48.4 72.6



#69

1,3,5-Trichlorobenzene

Concen: 0.789 ug/L

RT: 14.598 min Scan# 2212

Delta R.T. 0.006 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Tgt Ion:180 Resp: 2708

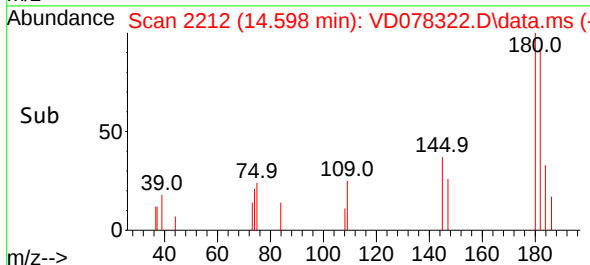
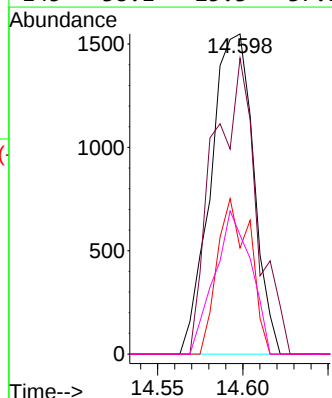
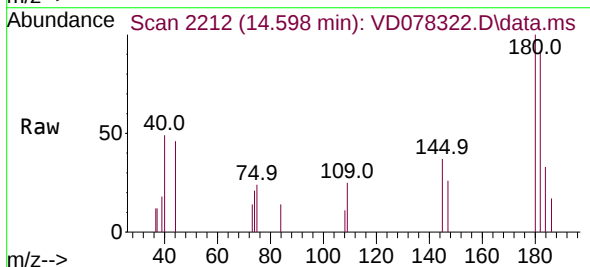
Ion Ratio Lower Upper

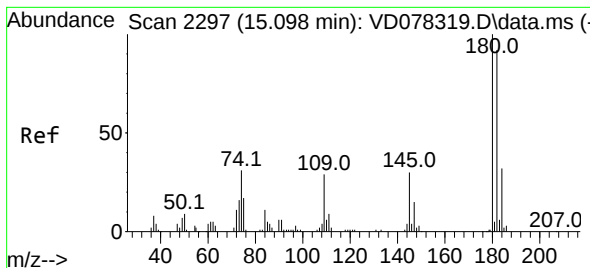
180 100

182 47.2 75.6 113.4#

184 37.1 23.2 34.8#

145 38.1 25.3 37.9#





#70

1,2,4-trichlorobenzene

Concen: 0.828 ug/L

RT: 15.098 min Scan# 2297

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

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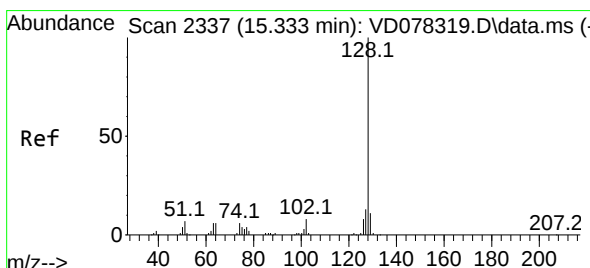
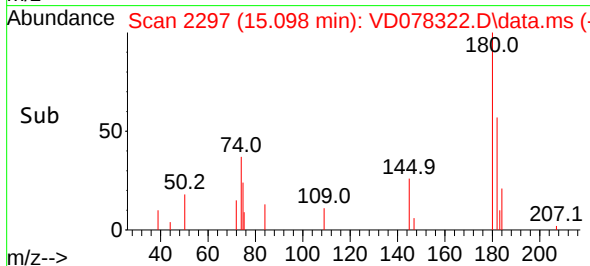
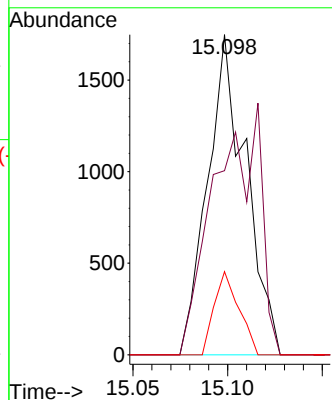
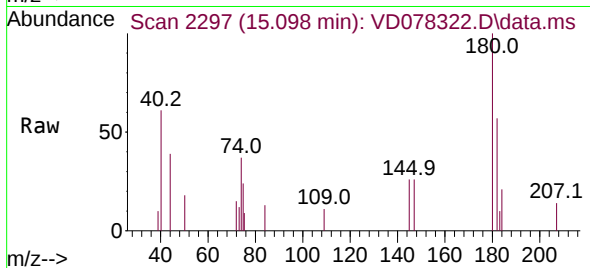
Tgt Ion:180 Resp: 2459

Ion Ratio Lower Upper

180 100

182 70.8 76.2 114.4#

145 16.8 25.0 37.6#



#71

Naphthalene

Concen: 0.712 ug/L

RT: 15.334 min Scan# 2337

Delta R.T. 0.000 min

Lab File: VD078322.D

Acq: 02 Feb 2024 13:21

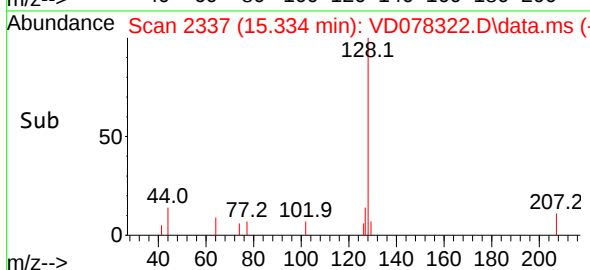
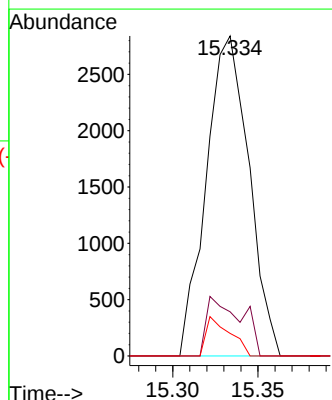
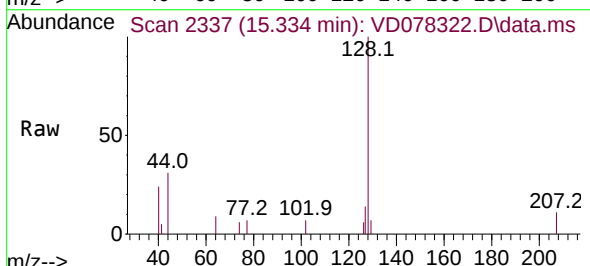
Tgt Ion:128 Resp: 4950

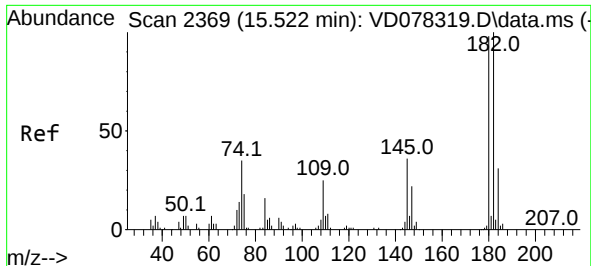
Ion Ratio Lower Upper

128 100

127 3.1 11.0 16.4#

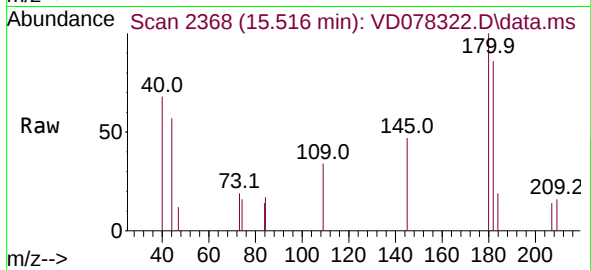
129 0.0 8.6 12.8#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.804 ug/L
 RT: 15.516 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VD078322.D
 Acq: 02 Feb 2024 13:21

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07



Tgt Ion:	180	Resp:	2227
Ion	Ratio	Lower	Upper
180	100		
182	85.4	75.4	113.0
145	27.1	26.8	40.2

