

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120623\
 Data File : VW027567.D
 Acq On : 06 Dec 2023 14:38
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT4-2023-08

Quant Time: Dec 07 07:15:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120623SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Dec 07 06:54:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	310152	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	277475	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	128111	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	131821	21.121	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.480%
7) Chloroethane-d5	2.899	69	100260	22.159	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.640%
11) 1,1-Dichloroethene-d2	4.027	65	59894	22.679	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.720%
21) 2-Butanone-d5	7.075	46	58272	35.630	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	71.260%
24) Chloroform-d	7.648	84	212307	22.933	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.720%
26) 1,2-Dichloroethane-d4	8.307	65	105301	22.243	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	88.960%
32) Benzene-d6	8.276	84	454162	23.239	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.960%
36) 1,2-Dichloropropane-d6	9.276	67	134500	23.345	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.400%
41) Toluene-d8	10.325	98	399317	23.353	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.400%
43) trans-1,3-Dichloroprop...	10.581	79	46696	20.959	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.840%
47) 2-Hexanone-d5	10.922	63	39631	36.919	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	73.840%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	95483	20.149	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	80.600%
66) 1,2-Dichlorobenzene-d4	13.849	152	110797	24.672	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.680%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.015	85	2120	0.511	ug/L	98
3) Chloromethane	2.223	50	5611	1.103	ug/L	100
5) Vinyl chloride	2.436	62	112	0.019	ug/L	92
6) Bromomethane	2.796	94	3579	1.150	ug/L	97
8) Chloroethane	2.930	64	3700	1.092	ug/L	85
9) Trichlorofluoromethane	3.283	101	5268	0.927	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	4.173	101	337	0.070	ug/L	90
12) 1,1-Dichloroethene	4.045	96	5900	1.334	ug/L #	1
13) Acetone	4.119	43	3001	1.903	ug/L	78
14) Carbon disulfide	4.387	76	15386	1.151	ug/L	97
15) Methyl Acetate	4.679	43	285	0.103	ug/L #	1
16) Methylene chloride	4.923	84	10214	2.020	ug/L	95
17) trans-1,2-Dichloroethene	5.435	96	4829	1.059	ug/L	98
18) Methyl tert-butyl Ether	5.429	73	6817	0.926	ug/L #	68
19) 1,1-Dichloroethane	6.228	63	8969	0.967	ug/L #	90
20) cis-1,2-Dichloroethene	7.179	96	4575	0.934	ug/L	77
22) 2-Butanone	7.136	43	947	0.466	ug/L	97
23) Bromochloromethane	7.508	128	1962	1.018	ug/L	76
25) Chloroform	7.679	83	9497	1.128	ug/L	85

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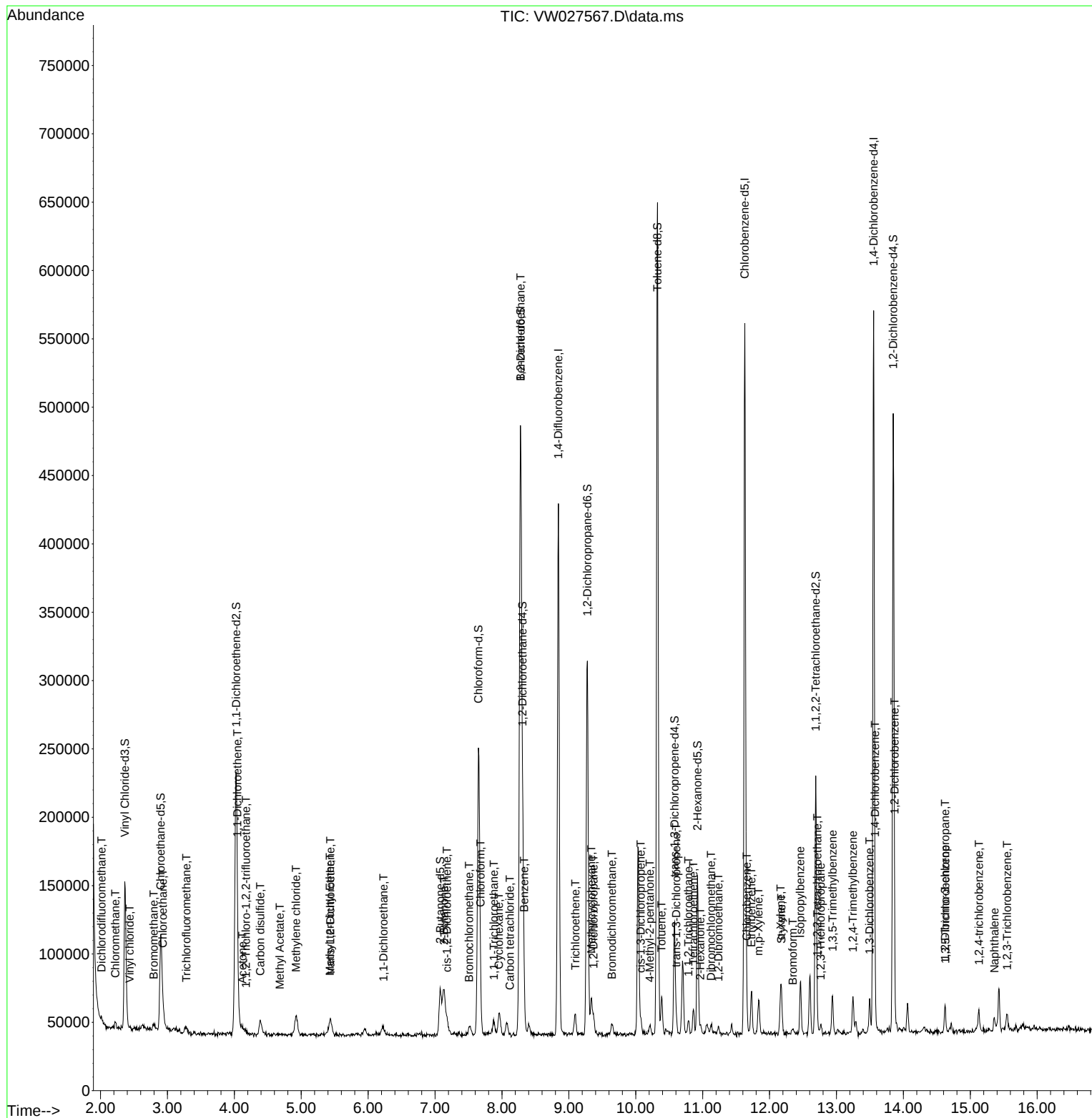
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	8.276	62	3308	0.608	ug/L	96
29) Cyclohexane	7.953	56	9260	1.015	ug/L	96
30) 1,1,1-Trichloroethane	7.880	97	7706	0.996	ug/L	98
31) Carbon tetrachloride	8.118	117	93	0.014	ug/L #	1
33) Benzene	8.331	78	18388	0.960	ug/L	100
34) Trichloroethene	9.099	95	5320	1.017	ug/L	95
35) Methylcyclohexane	9.337	83	9155	0.983	ug/L	94
37) 1,2-Dichloropropane	9.368	63	5074	1.003	ug/L #	93
38) Bromodichloromethane	9.642	83	5563	0.952	ug/L #	98
39) cis-1,3-Dichloropropene	10.075	75	6295	0.862	ug/L	90
40) 4-Methyl-2-pentanone	10.209	43	4823	1.411	ug/L #	89
42) Toluene	10.386	91	20286	1.002	ug/L	96
44) trans-1,3-Dichloropropene	10.605	75	6829	1.160	ug/L	84
45) 1,1,2-Trichloroethane	10.788	97	3361	0.954	ug/L	95
46) Tetrachloroethene	10.861	164	3931	1.054	ug/L	88
48) 2-Hexanone	10.965	43	3154	1.309	ug/L #	94
49) Dibromochloromethane	11.123	129	3131	0.900	ug/L	100
50) 1,2-Dibromoethane	11.233	107	3092	0.960	ug/L #	82
51) Chlorobenzene	11.660	112	11835	0.968	ug/L	94
52) Ethylbenzene	11.727	91	21427	0.931	ug/L	94
53) m,p-Xylene	11.837	106	7973	0.940	ug/L	100
54) o-Xylene	12.166	106	6660	0.864	ug/L	97
55) Styrene	12.178	104	11171	0.849	ug/L	94
57) 1,1,2,2-Tetrachloroethane	12.715	83	4431	0.967	ug/L #	94
59) Bromoform	12.349	173	1800	1.003	ug/L	88
60) Isopropylbenzene	12.459	105	20185	0.954	ug/L #	94
61) 1,2,3-Trichloropropane	12.763	75	2959	0.958	ug/L	99
62) 1,3,5-Trimethylbenzene	12.940	105	14047	0.898	ug/L	94
63) 1,2,4-Trimethylbenzene	13.245	105	14496	0.930	ug/L	97
64) 1,3-Dichlorobenzene	13.495	146	7909	0.976	ug/L	96
65) 1,4-Dichlorobenzene	13.574	146	8897	1.101	ug/L	99
67) 1,2-Dichlorobenzene	13.867	146	7099	0.973	ug/L #	84
68) 1,2-Dibromo-3-chloropr...	14.623	75	1595	2.146	ug/L #	9
69) 1,3,5-Trichlorobenzene	14.629	180	5443	0.999	ug/L	98
70) 1,2,4-trichlorobenzene	15.129	180	4559	1.078	ug/L	91
71) Naphthalene	15.360	128	7799	0.876	ug/L #	77
72) 1,2,3-Trichlorobenzene	15.549	180	3501	0.966	ug/L	97

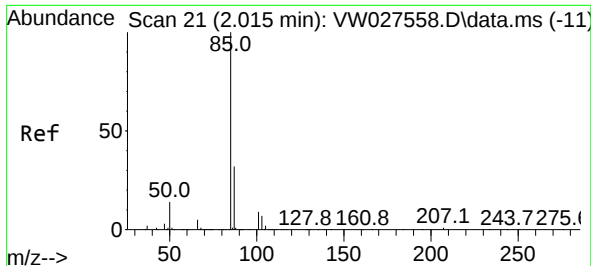
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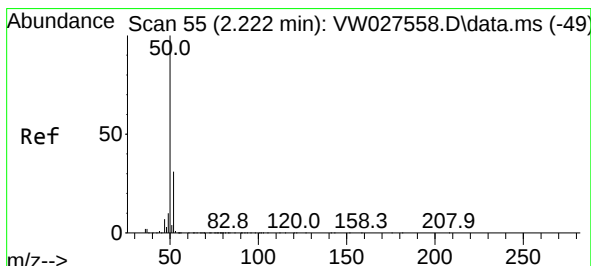
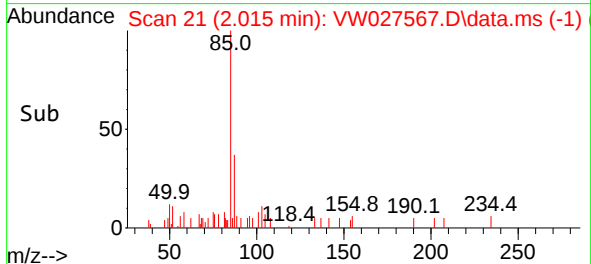
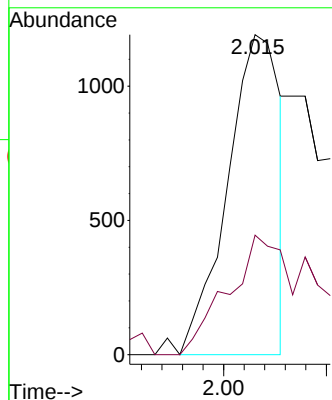
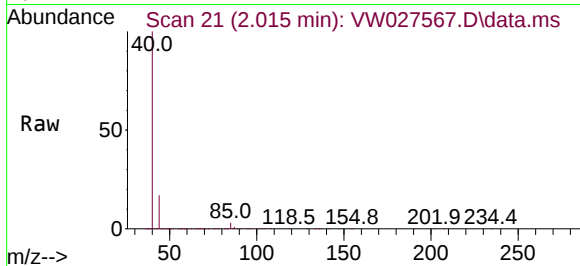




#2
Dichlorodifluoromethane
Concen: 0.511 ug/L
RT: 2.015 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

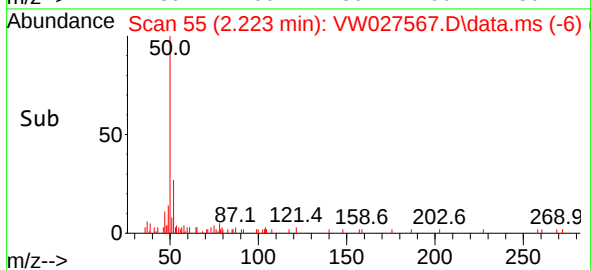
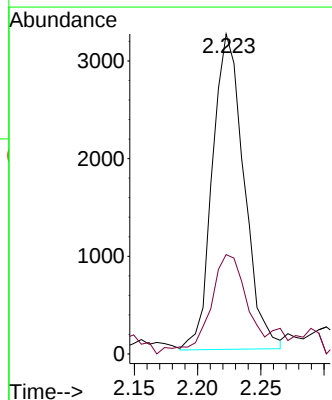
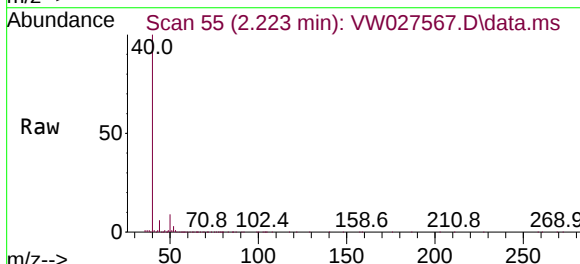
Instrument :
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ClientSampleId :
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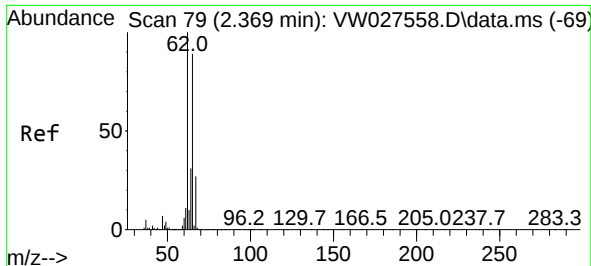
Tgt Ion: 85 Resp: 2120
Ion Ratio Lower Upper
85 100
87 28.8 24.0 36.0



#3
Chloromethane
Concen: 1.103 ug/L
RT: 2.223 min Scan# 55
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 50 Resp: 5611
Ion Ratio Lower Upper
50 100
52 31.0 21.8 40.6

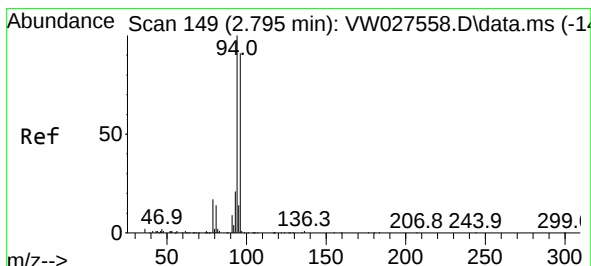
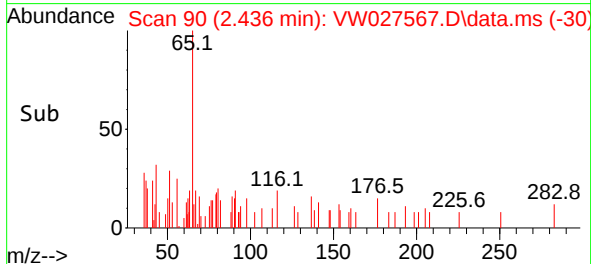
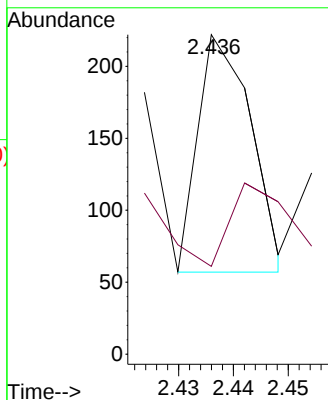
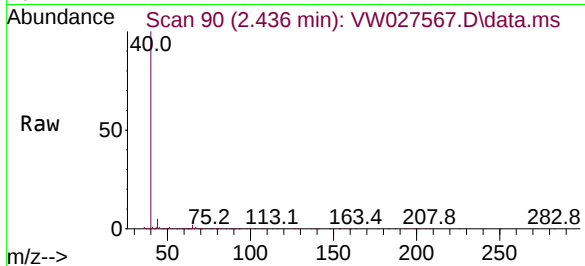




#5
 Vinyl chloride
 Concen: 0.019 ug/L
 RT: 2.436 min Scan# 90
 Delta R.T. 0.067 min
 Lab File: VW027567.D
 Acq: 06 Dec 2023 14:38

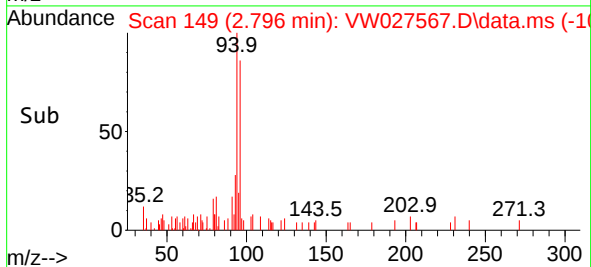
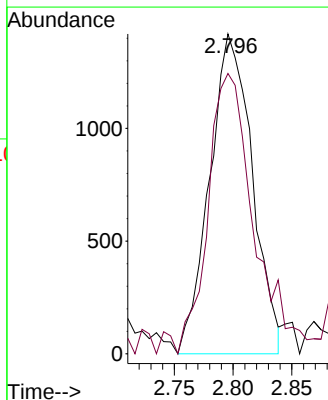
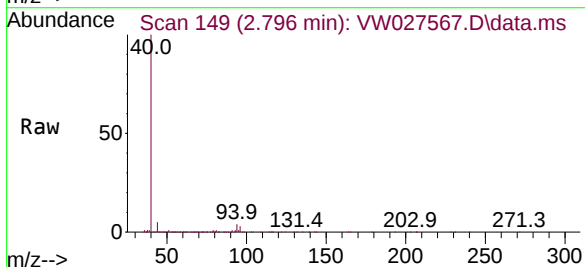
Instrument :
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 MDL-SOIL-QT4-2023-08

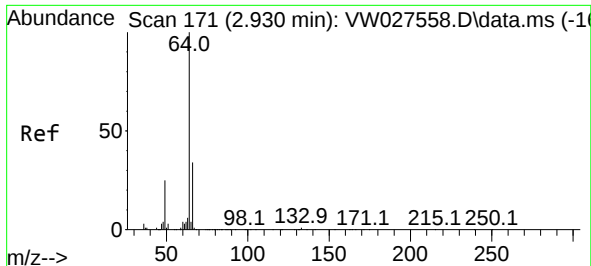
Tgt Ion: 62 Resp: 112
 Ion Ratio Lower Upper
 62 100
 64 27.5 22.2 41.2



#6
 Bromomethane
 Concen: 1.150 ug/L
 RT: 2.796 min Scan# 149
 Delta R.T. 0.000 min
 Lab File: VW027567.D
 Acq: 06 Dec 2023 14:38

Tgt Ion: 94 Resp: 3579
 Ion Ratio Lower Upper
 94 100
 96 87.7 63.3 117.7

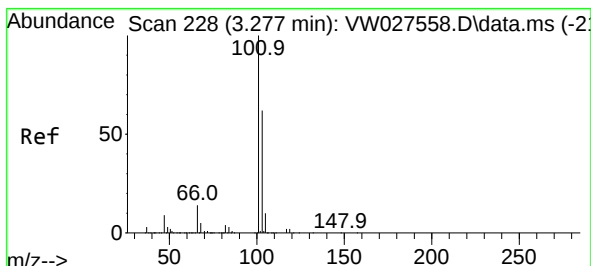
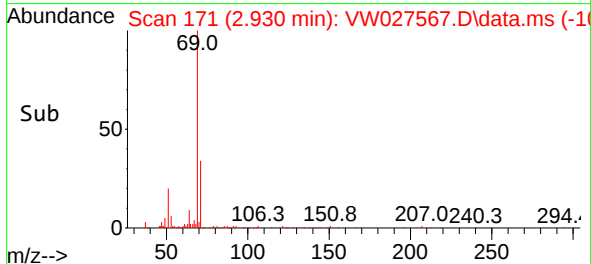
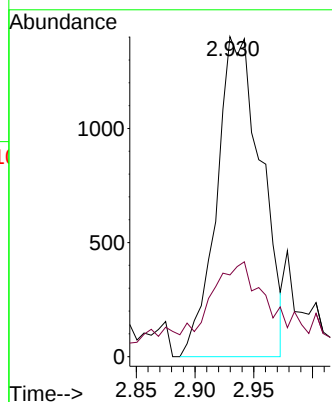
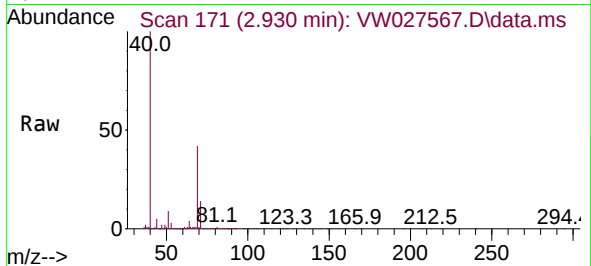




#8
Chloroethane
Concen: 1.092 ug/L
RT: 2.930 min Scan# 171
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

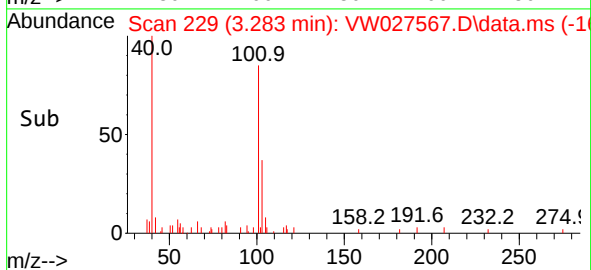
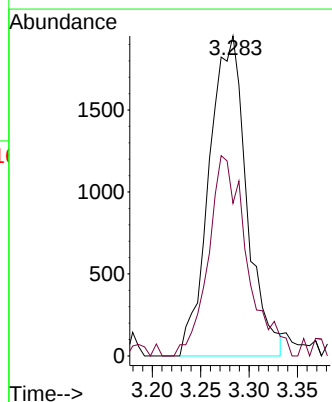
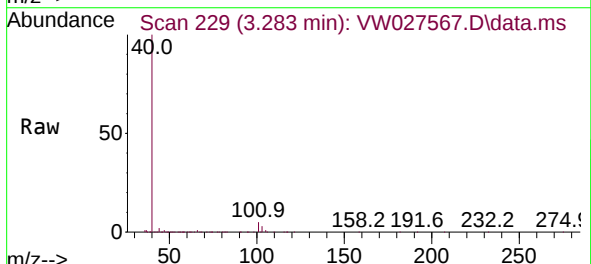
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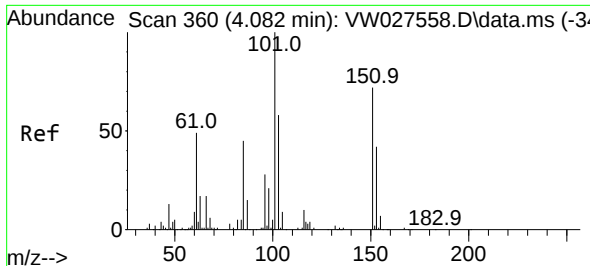
Tgt Ion: 64 Resp: 3700
Ion Ratio Lower Upper
64 100
66 25.5 24.1 44.7



#9
Trichlorofluoromethane
Concen: 0.927 ug/L
RT: 3.283 min Scan# 229
Delta R.T. 0.006 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 101 Resp: 5268
Ion Ratio Lower Upper
101 100
103 64.0 52.0 78.0

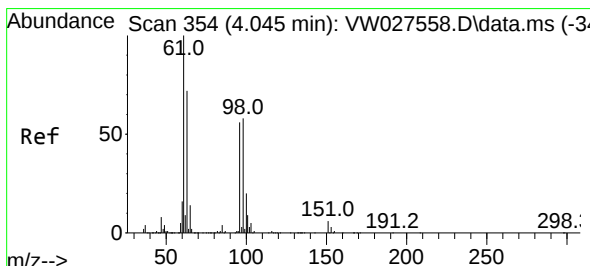
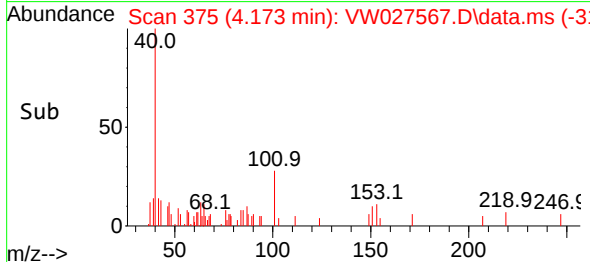
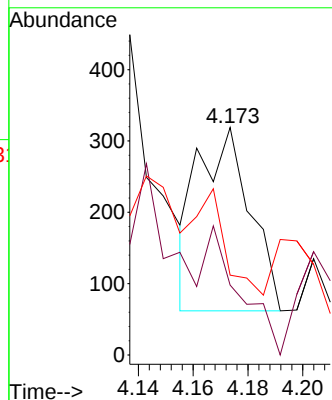
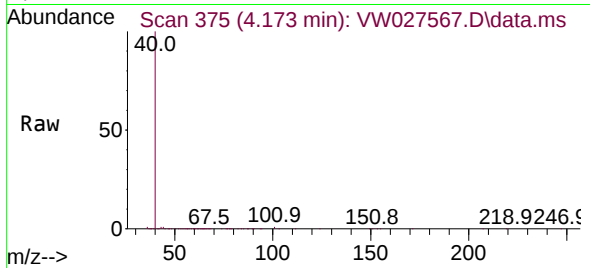




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.070 ug/L
 RT: 4.173 min Scan# 31
 Delta R.T. 0.092 min
 Lab File: VW027567.D
 Acq: 06 Dec 2023 14:38

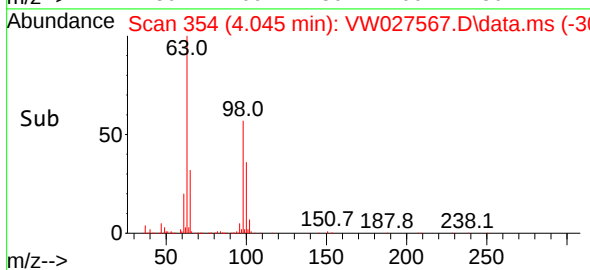
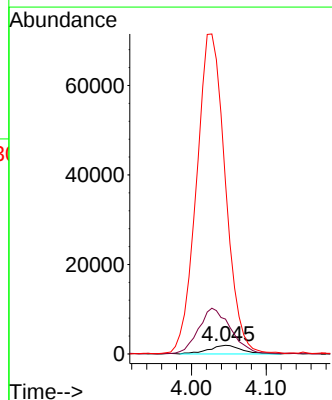
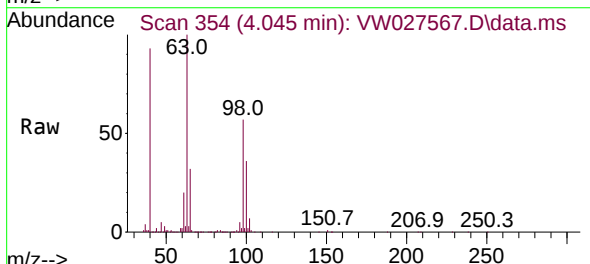
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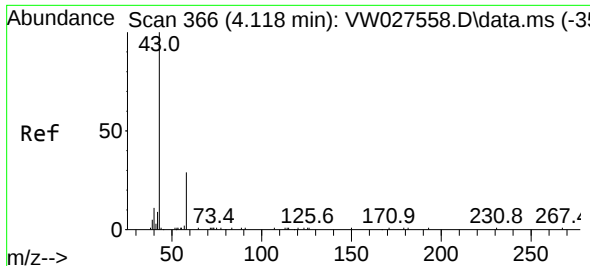
Tgt Ion:101 Resp: 337
 Ion Ratio Lower Upper
 101 100
 85 45.7 33.9 50.9
 151 79.2 54.6 81.8



#12
 1,1-Dichloroethene
 Concen: 1.334 ug/L
 RT: 4.045 min Scan# 354
 Delta R.T. 0.000 min
 Lab File: VW027567.D
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Tgt Ion: 96 Resp: 5900
 Ion Ratio Lower Upper
 96 100
 61 406.8 127.8 237.4#
 63 1996.7 104.9 194.7#

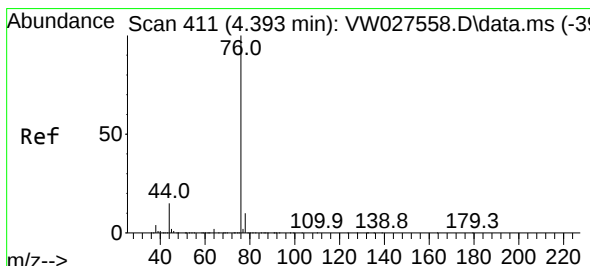
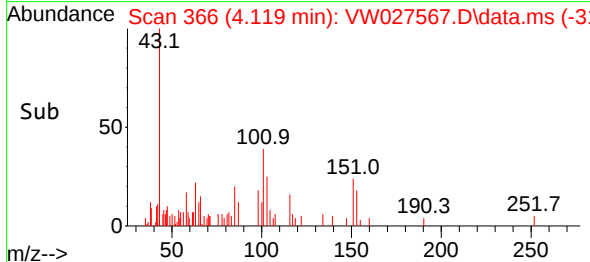
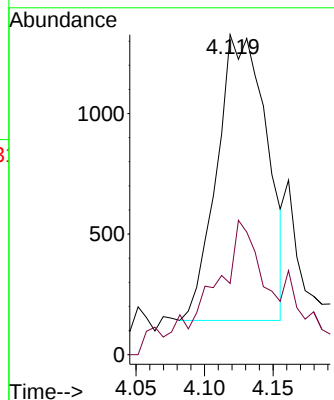
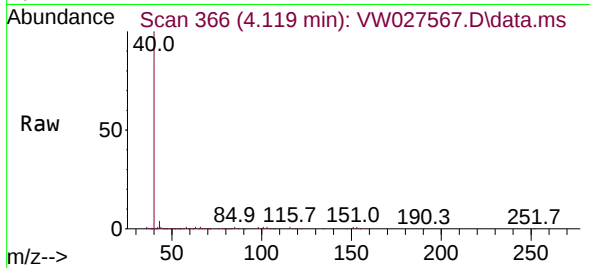




#13
Acetone
Concen: 1.903 ug/L
RT: 4.119 min Scan# 301
Delta R.T. 0.000 min
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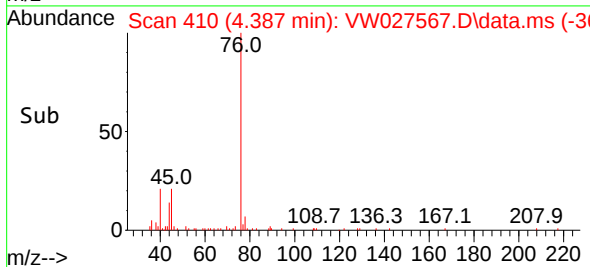
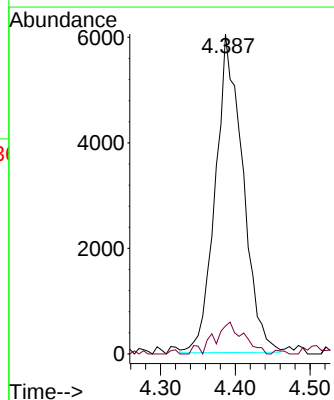
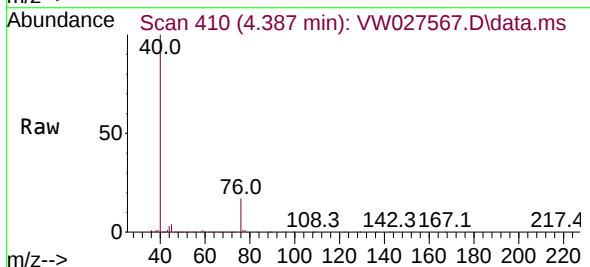
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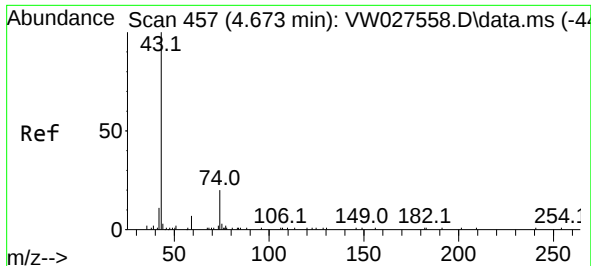
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Ion Ratio Lower Upper
43 100
58 17.9 0.0 60.0



#14
Carbon disulfide
Concen: 1.151 ug/L
RT: 4.387 min Scan# 410
Delta R.T. -0.006 min
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Tgt Ion: 76 Resp: 15386
Ion Ratio Lower Upper
76 100
78 8.8 7.8 11.6

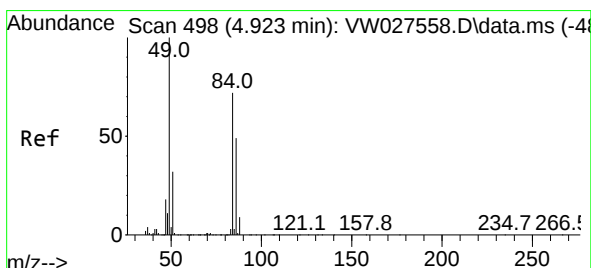
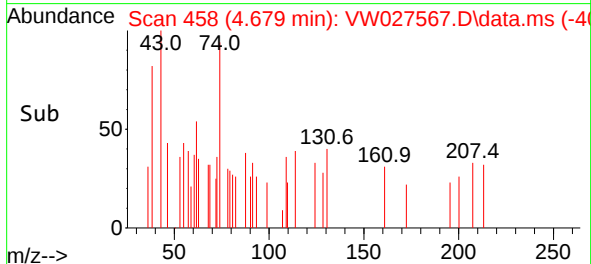
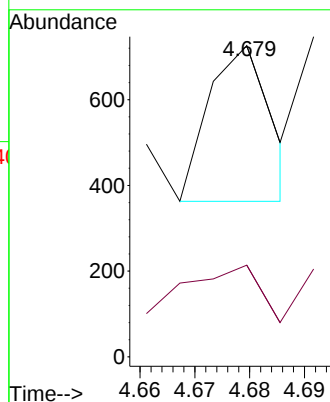
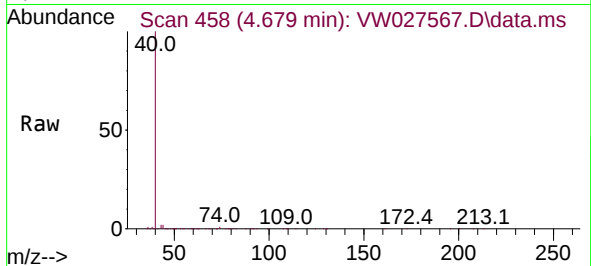




#15
Methyl Acetate
Concen: 0.103 ug/L
RT: 4.679 min Scan# 4
Delta R.T. 0.006 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

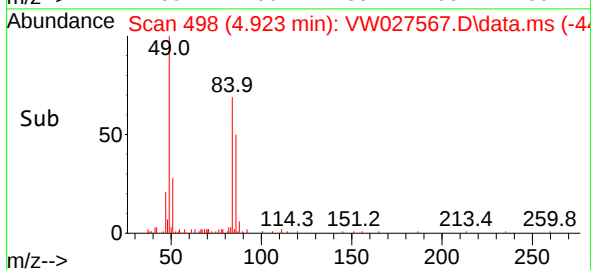
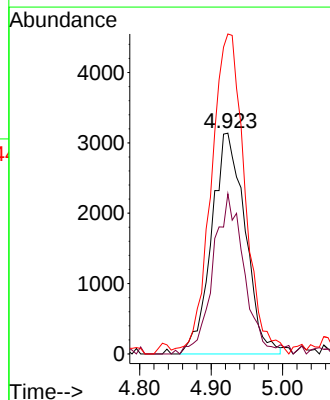
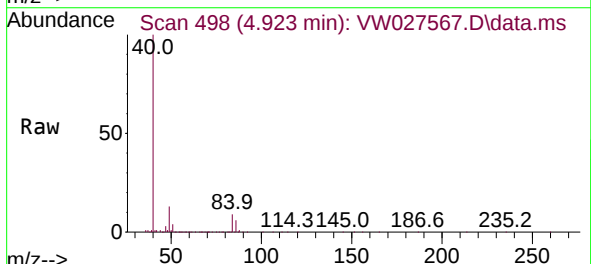
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

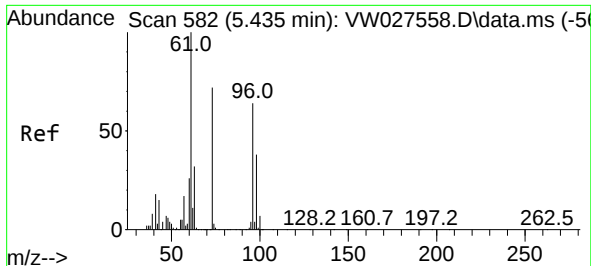
Tgt Ion: 43 Resp: 285
Ion Ratio Lower Upper
43 100
74 83.2 16.8 25.2#



#16
Methylene chloride
Concen: 2.020 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 84 Resp: 10214
Ion Ratio Lower Upper
84 100
86 72.6 47.7 88.7
49 144.9 97.4 181.0

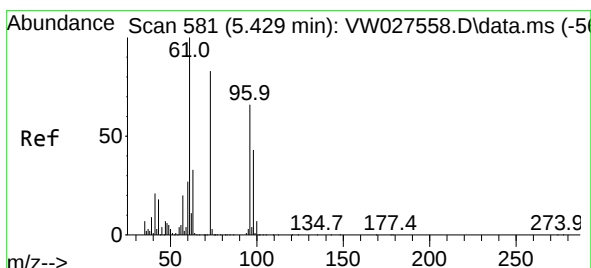
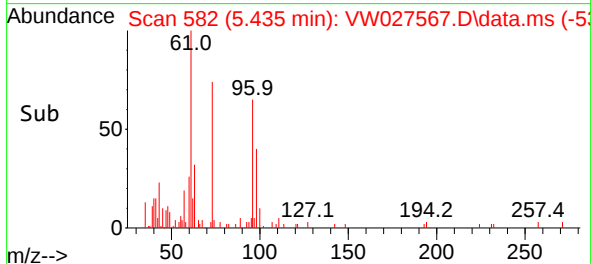
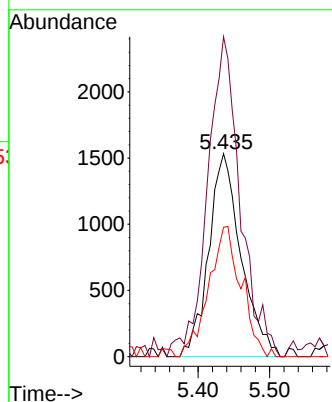
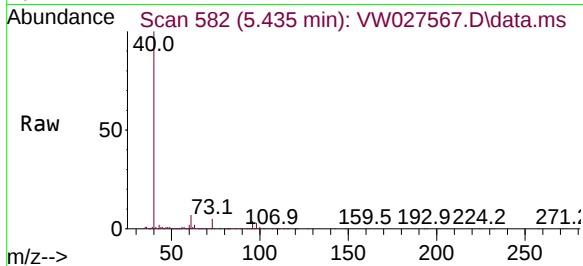




#17
trans-1,2-Dichloroethene
Concen: 1.059 ug/L
RT: 5.435 min Scan# 582
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

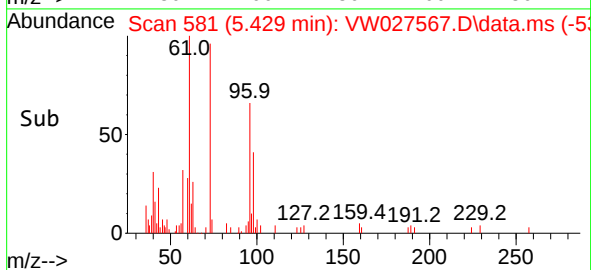
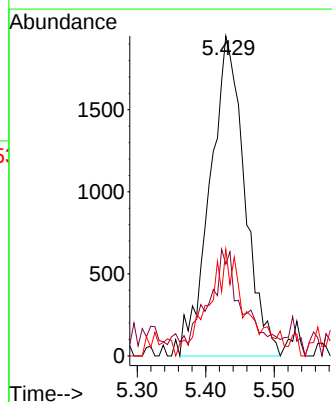
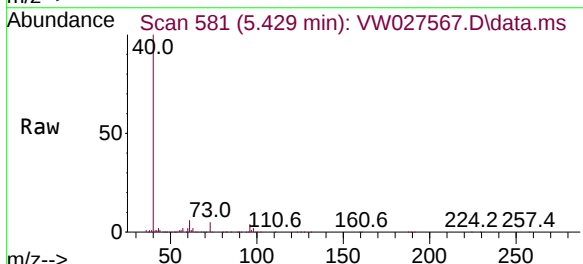
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

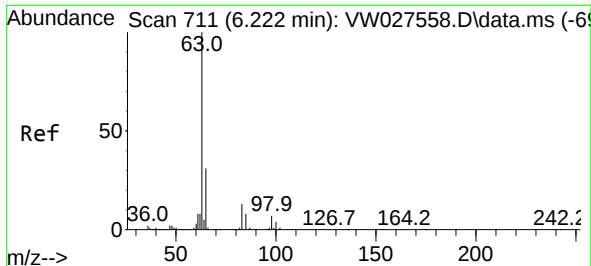
Tgt Ion:	96	Resp:	4829
Ion	Ratio	Lower	Upper
96	100		
61	157.7	109.6	203.6
98	63.7	41.9	77.7



#18
Methyl tert-butyl Ether
Concen: 0.926 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion:	73	Resp:	6817
Ion	Ratio	Lower	Upper
73	100		
43	11.9	17.8	26.6#
57	4.6	19.9	29.9#





#19

1,1-Dichloroethane

Concen: 0.967 ug/L

RT: 6.228 min Scan# 711

Delta R.T. 0.006 min

Lab File: VW027567.D

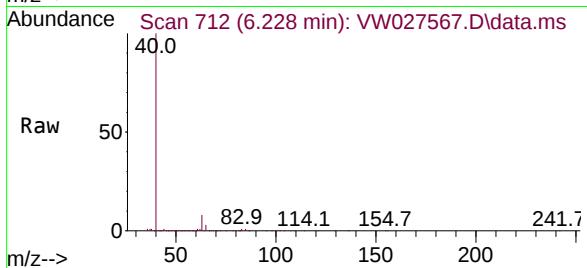
Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08



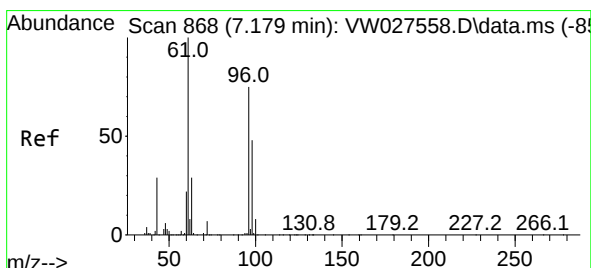
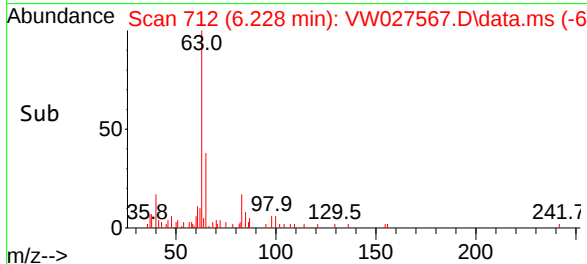
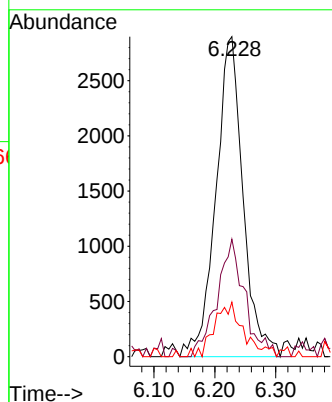
Tgt Ion: 63 Resp: 8969

Ion Ratio Lower Upper

63 100

65 36.7 22.0 40.8

83 17.0 9.0 16.8



#20

cis-1,2-Dichloroethene

Concen: 0.934 ug/L

RT: 7.179 min Scan# 868

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

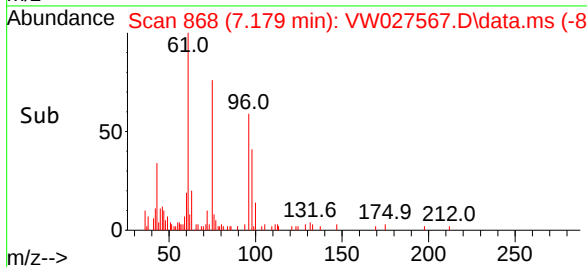
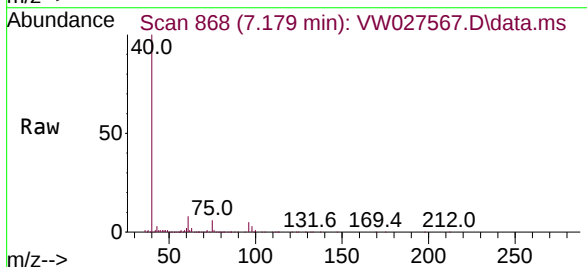
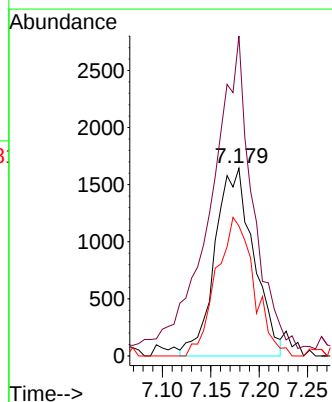
Tgt Ion: 96 Resp: 4575

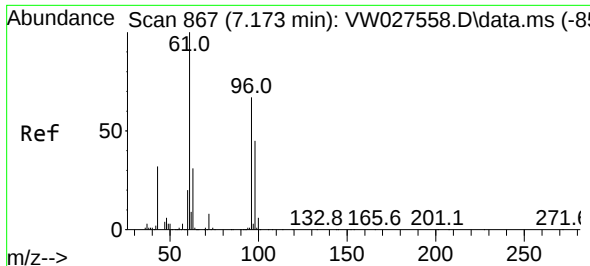
Ion Ratio Lower Upper

96 100

61 170.5 94.0 174.6

98 69.3 45.1 83.7

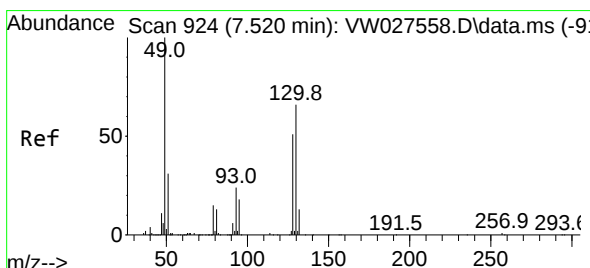
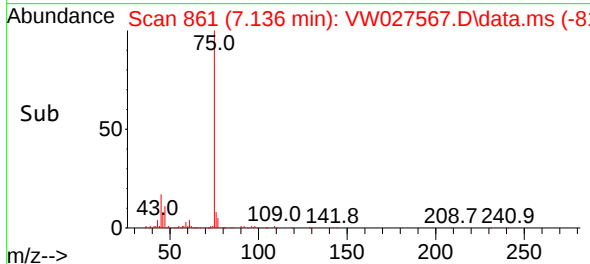
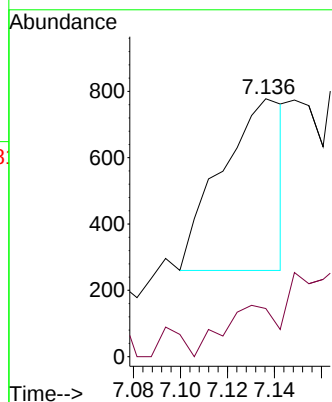
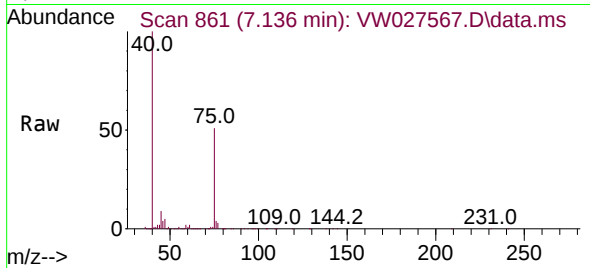




#22
2-Butanone
Concen: 0.466 ug/L
RT: 7.136 min Scan# 861
Delta R.T. -0.036 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

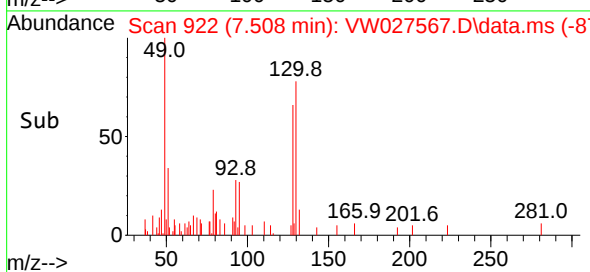
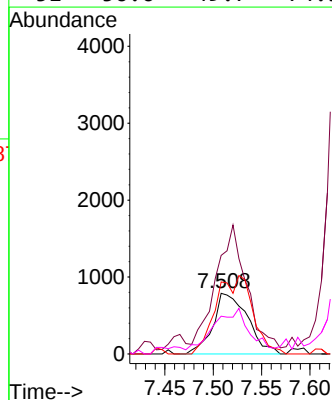
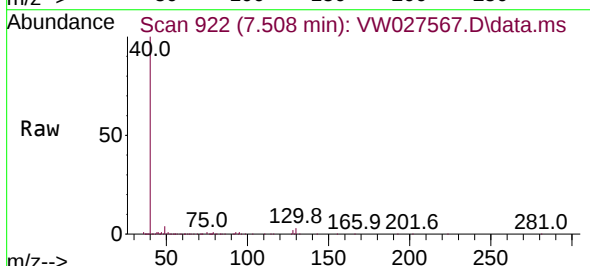
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

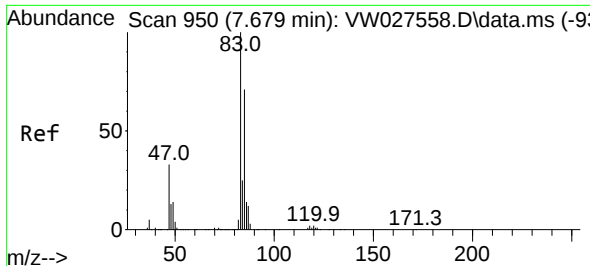
Tgt Ion: 43 Resp: 947
Ion Ratio Lower Upper
43 100
72 25.4 11.9 35.9



#23
Bromochloromethane
Concen: 1.018 ug/L
RT: 7.508 min Scan# 922
Delta R.T. -0.012 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 128 Resp: 1962
Ion Ratio Lower Upper
128 100
49 148.2 137.8 256.0
130 108.2 91.2 169.4
51 56.6 49.7 74.5

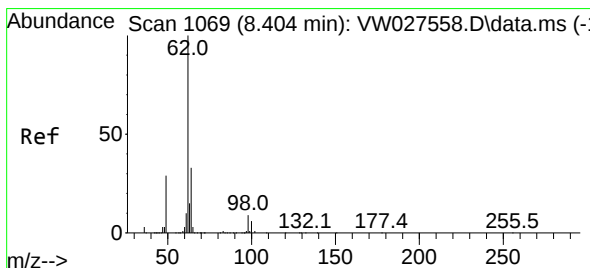
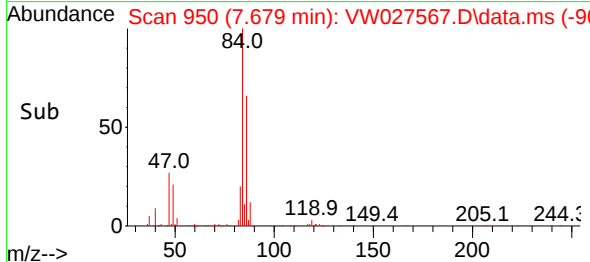
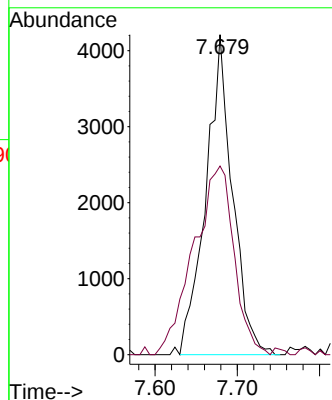
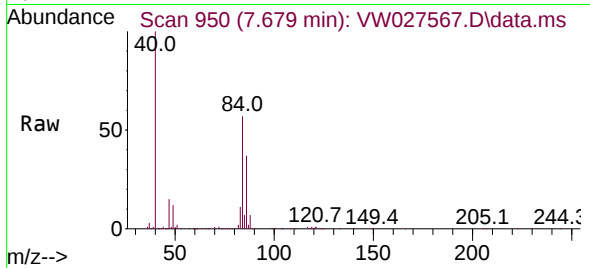




#25
Chloroform
Concen: 1.128 ug/L
RT: 7.679 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

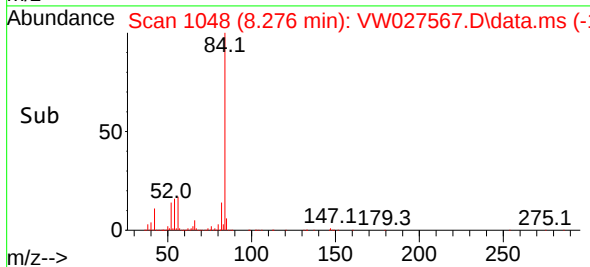
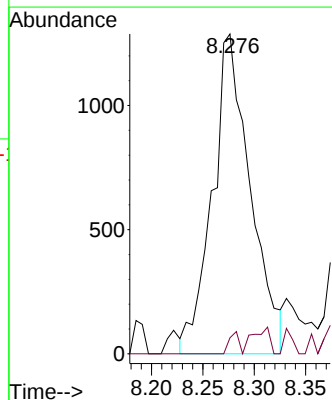
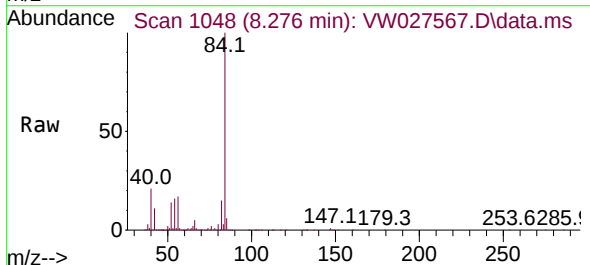
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

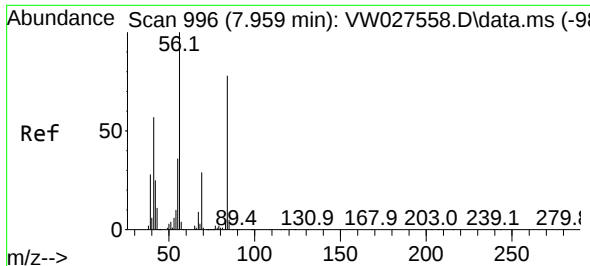
Tgt Ion: 83 Resp: 9497
Ion Ratio Lower Upper
83 100
85 59.0 49.8 92.6



#27
1,2-Dichloroethane
Concen: 0.608 ug/L
RT: 8.276 min Scan# 1048
Delta R.T. -0.128 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 62 Resp: 3308
Ion Ratio Lower Upper
62 100
98 10.6 7.4 11.0





#29

Cyclohexane

Concen: 1.015 ug/L

RT: 7.953 min Scan# 996

Delta R.T. -0.006 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

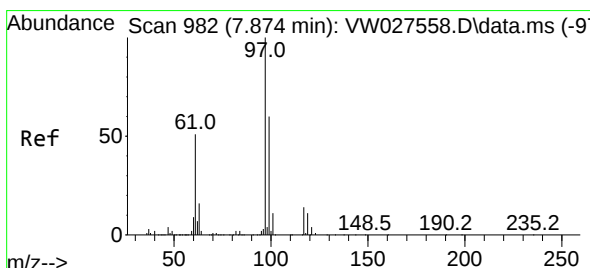
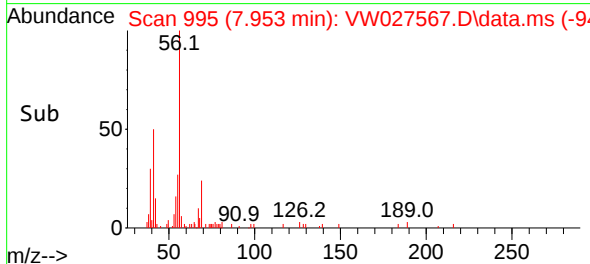
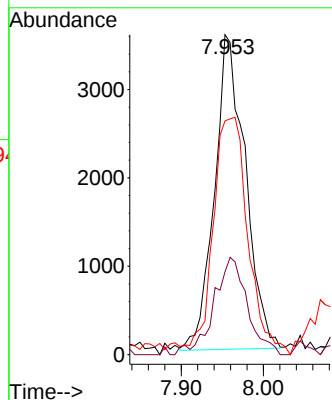
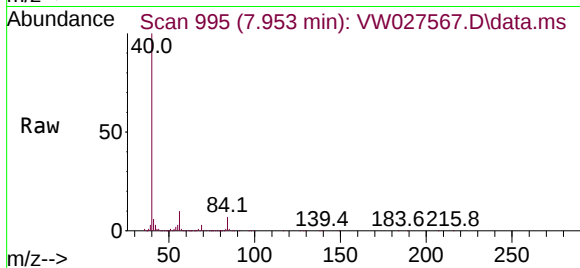
Tgt Ion: 56 Resp: 9260

Ion Ratio Lower Upper

56 100

69 32.5 24.1 36.1

84 84.4 65.0 97.4



#30

1,1,1-Trichloroethane

Concen: 0.996 ug/L

RT: 7.880 min Scan# 983

Delta R.T. 0.006 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

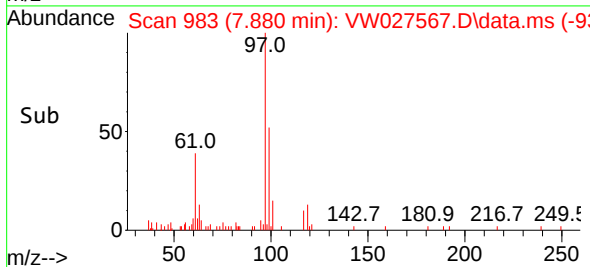
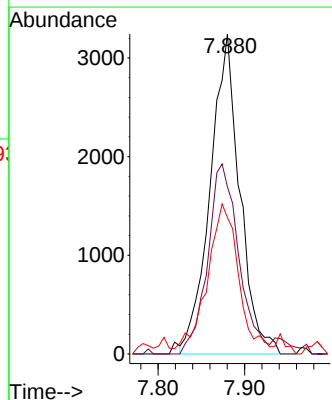
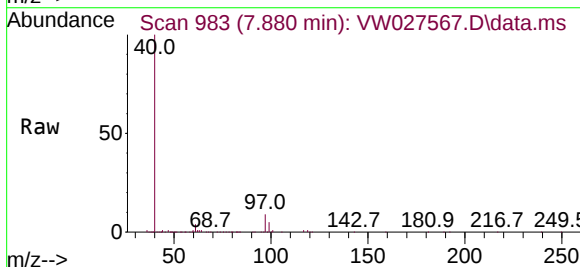
Tgt Ion: 97 Resp: 7706

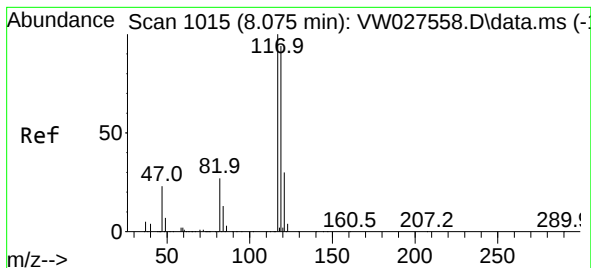
Ion Ratio Lower Upper

97 100

99 62.3 50.5 75.7

61 46.2 39.0 58.4





#31

Carbon tetrachloride

Concen: 0.014 ug/L

RT: 8.118 min Scan# 1015

Delta R.T. 0.043 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

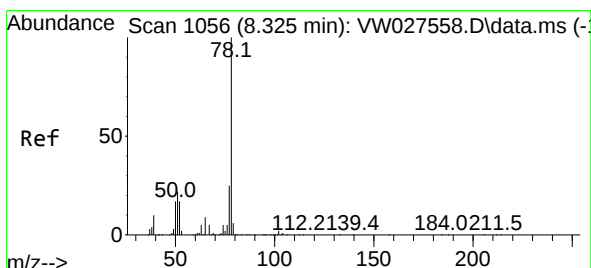
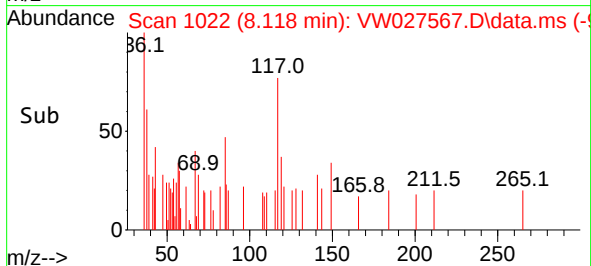
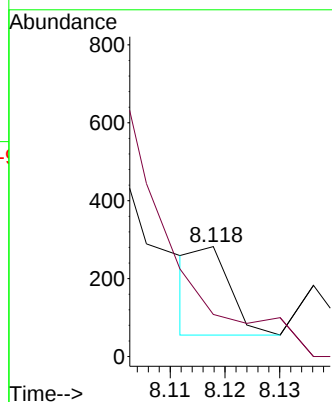
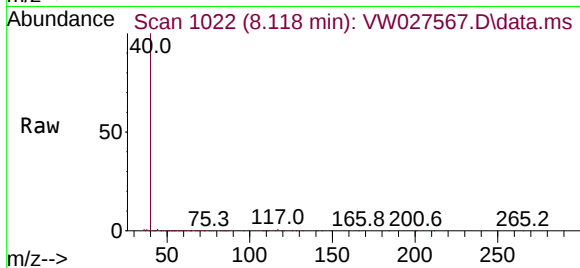
MDL-SOIL-QT4-2023-08

Tgt Ion:117 Resp: 93

Ion Ratio Lower Upper

117 100

119 6823.7 77.0 115.6#



#33

Benzene

Concen: 0.960 ug/L

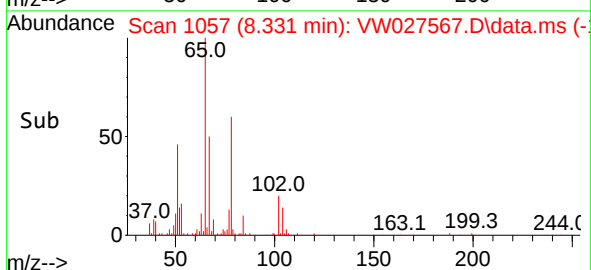
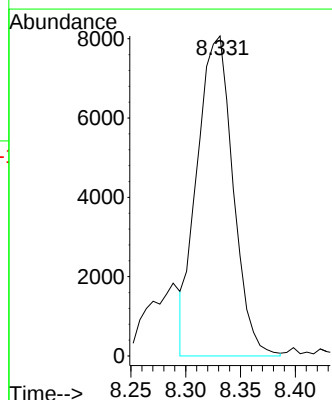
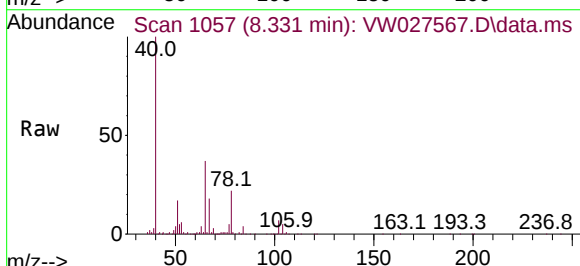
RT: 8.331 min Scan# 1057

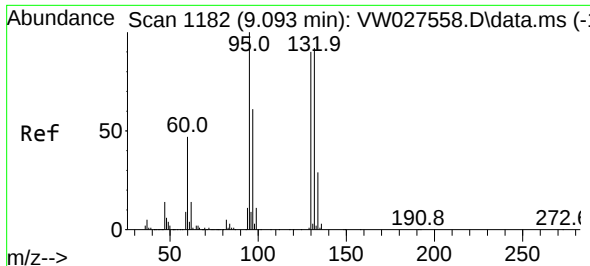
Delta R.T. 0.006 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Tgt Ion: 78 Resp: 18388

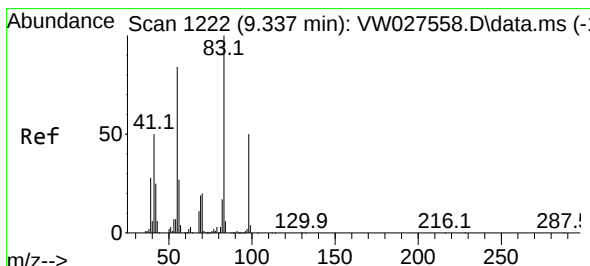
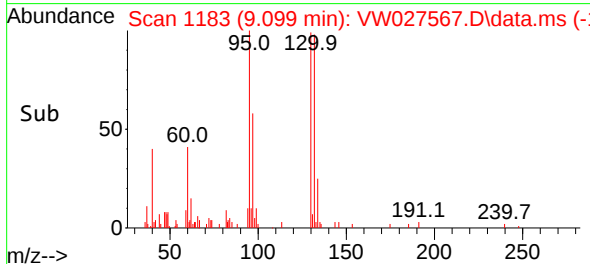
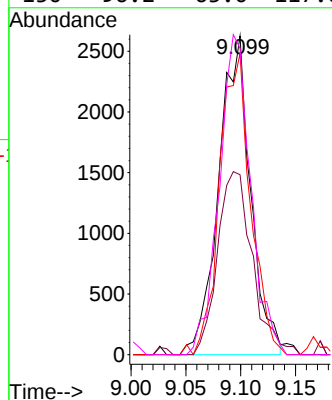
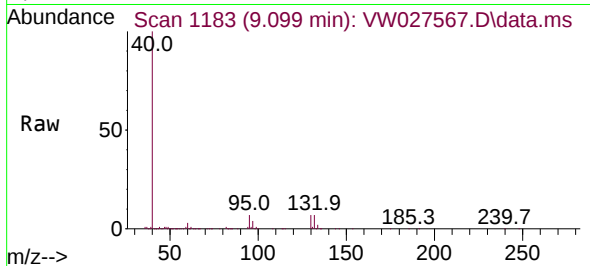




#34
Trichloroethene
Concen: 1.017 ug/L
RT: 9.099 min Scan# 1182
Delta R.T. 0.006 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

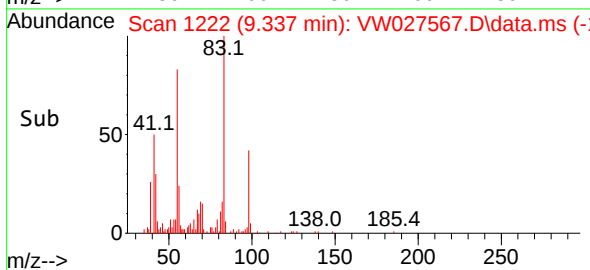
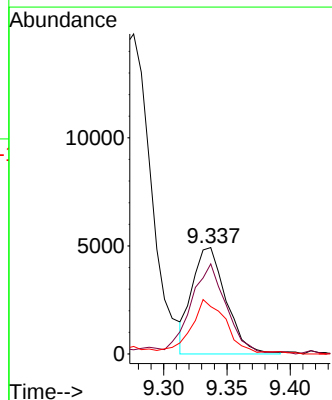
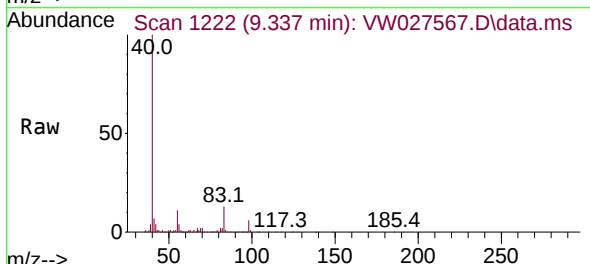
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

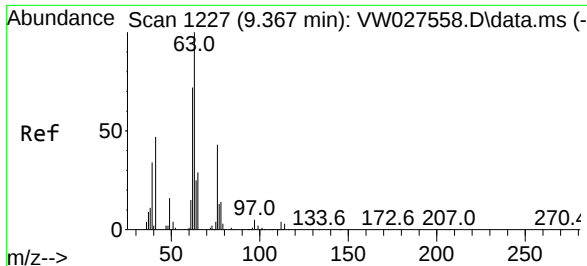
Tgt Ion: 95	Resp: 5320
Ion Ratio	Lower Upper
95 100	
97 56.5	43.0 80.0
132 94.5	64.1 119.1
130 96.2	63.0 117.0



#35
Methylcyclohexane
Concen: 0.983 ug/L
RT: 9.337 min Scan# 1222
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 83	Resp: 9155
Ion Ratio	Lower Upper
83 100	
55 86.9	65.6 98.4
98 52.8	38.3 57.5





#37

1,2-Dichloropropane

Concen: 1.003 ug/L

RT: 9.368 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

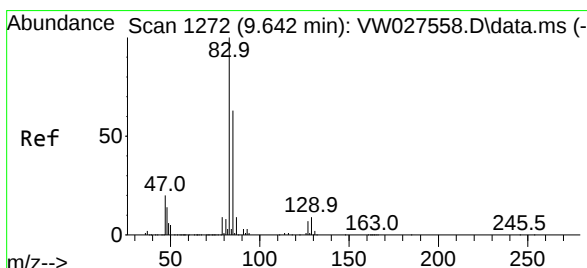
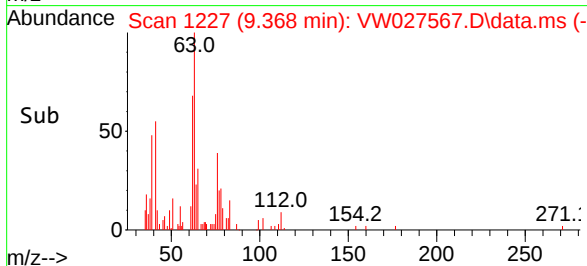
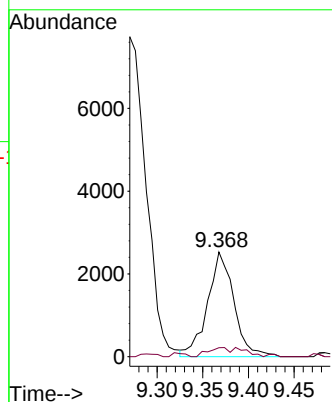
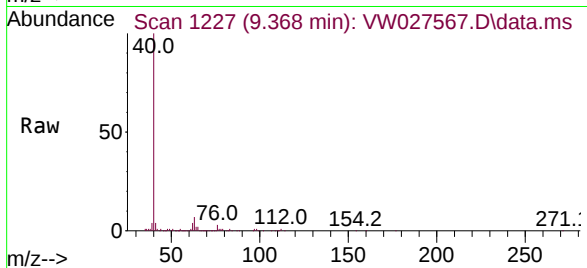
MDL-SOIL-QT4-2023-08

Tgt Ion: 63 Resp: 5074

Ion Ratio Lower Upper

63 100

112 6.9 3.6 5.4#



#38

Bromodichloromethane

Concen: 0.952 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

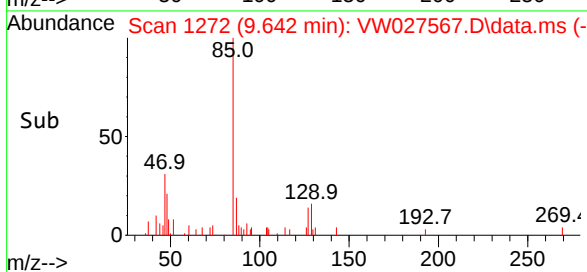
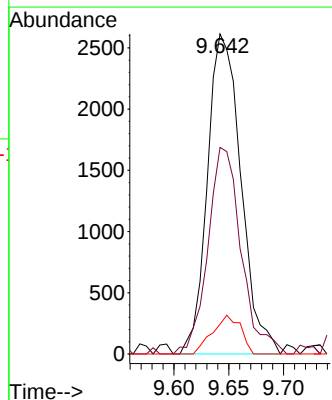
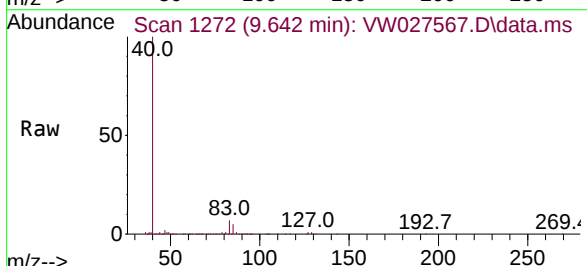
Tgt Ion: 83 Resp: 5563

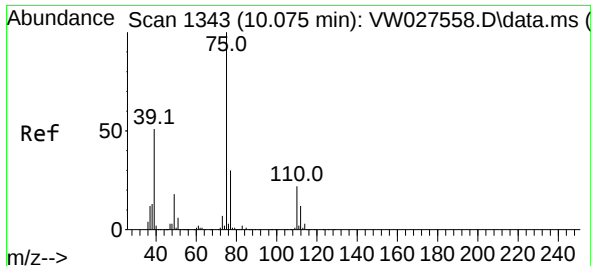
Ion Ratio Lower Upper

83 100

85 64.5 44.3 82.3

127 9.3 5.3 7.9#





#39

cis-1,3-Dichloropropene

Concen: 0.862 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

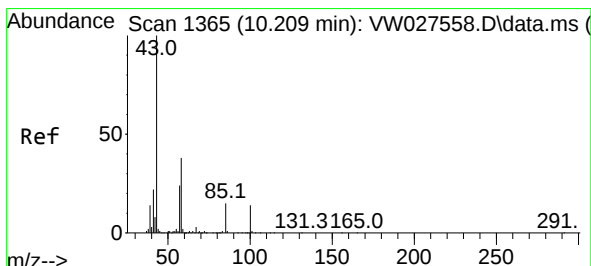
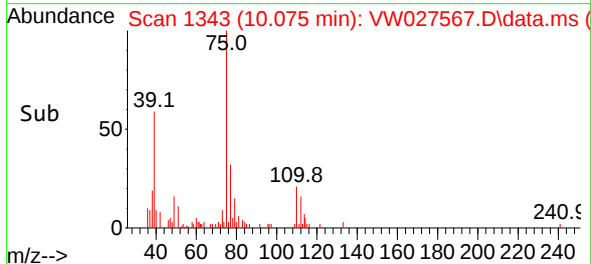
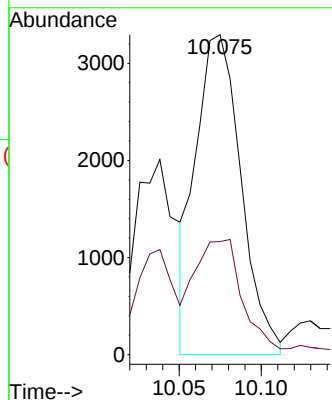
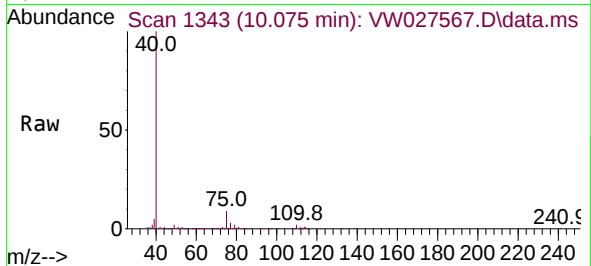
MDL-SOIL-QT4-2023-08

Tgt Ion: 75 Resp: 6295

Ion Ratio Lower Upper

75 100

77 35.4 21.1 39.1



#40

4-Methyl-2-pentanone

Concen: 1.411 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

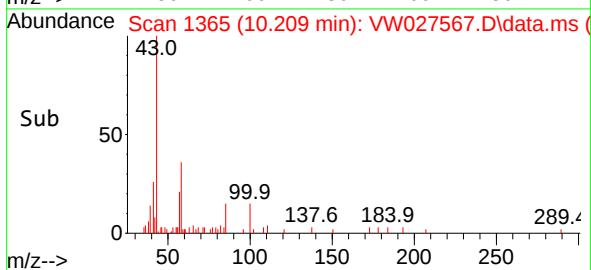
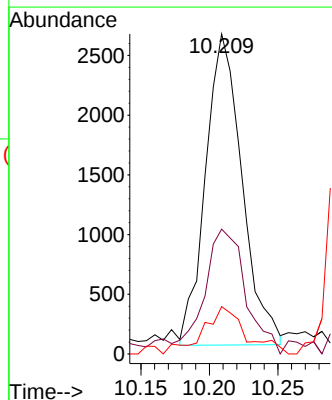
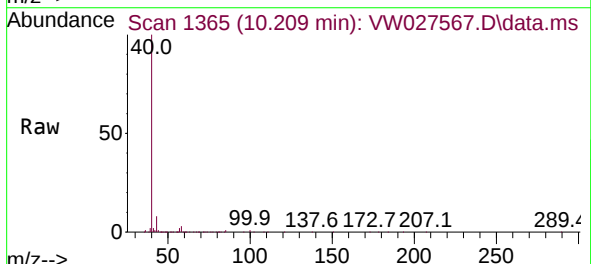
Tgt Ion: 43 Resp: 4823

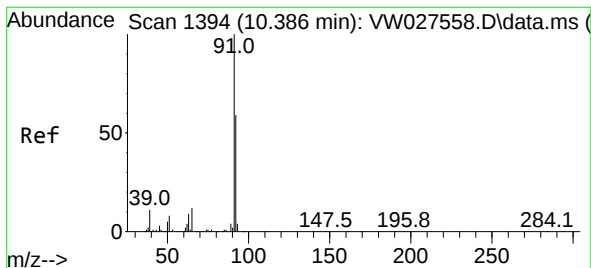
Ion Ratio Lower Upper

43 100

58 45.3 29.6 44.4#

100 12.4 11.1 16.7





#42

Toluene

Concen: 1.002 ug/L

RT: 10.386 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

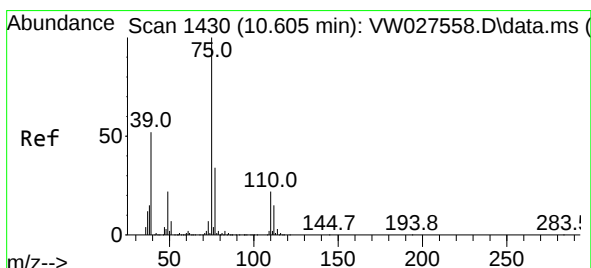
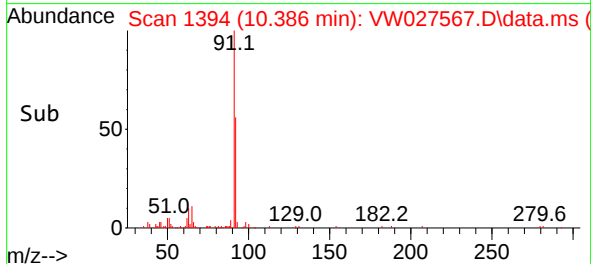
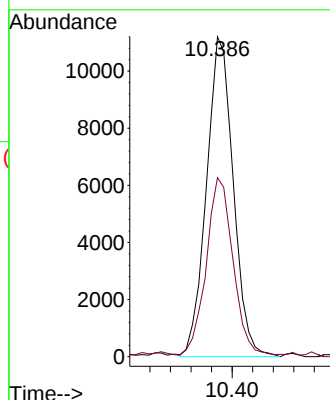
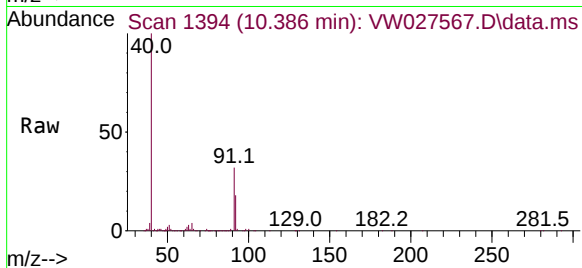
MDL-SOIL-QT4-2023-08

Tgt Ion: 91 Resp: 20286

Ion Ratio Lower Upper

91 100

92 56.0 41.4 76.8



#44

trans-1,3-Dichloropropene

Concen: 1.160 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW027567.D

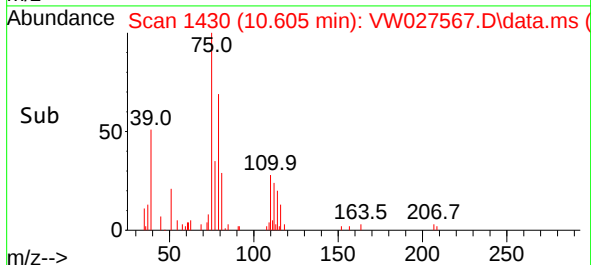
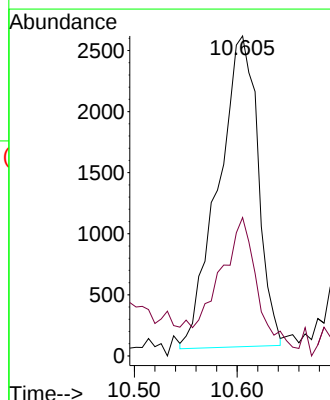
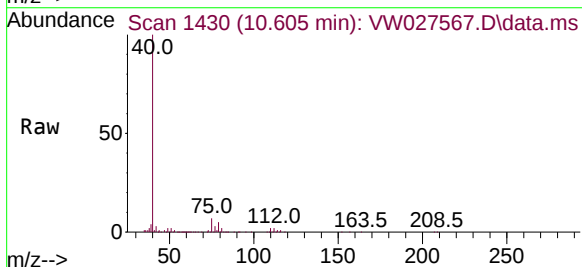
Acq: 06 Dec 2023 14:38

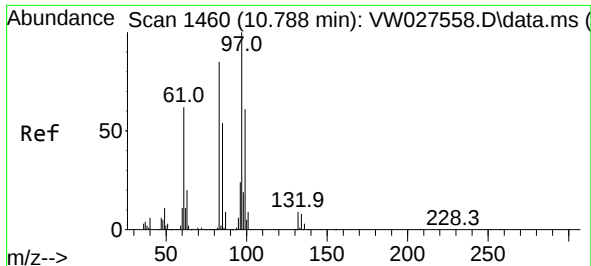
Tgt Ion: 75 Resp: 6829

Ion Ratio Lower Upper

75 100

77 43.3 23.7 44.1





#45

1,1,2-Trichloroethane

Concen: 0.954 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion: 97 Resp: 3361

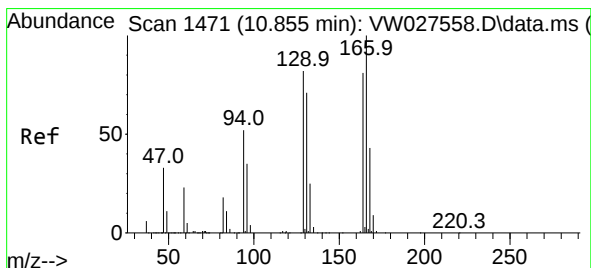
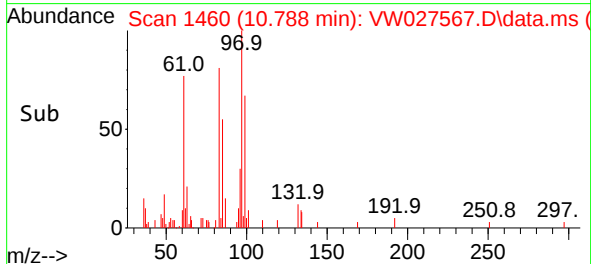
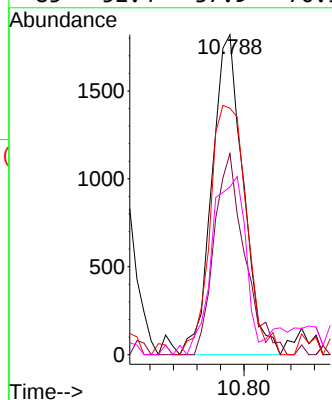
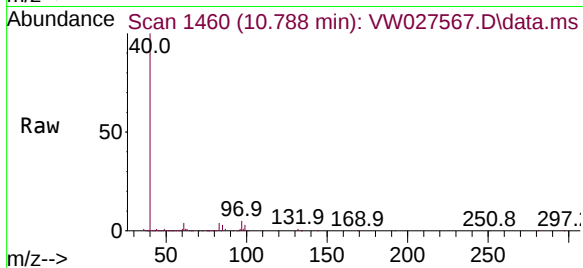
Ion Ratio Lower Upper

97 100

99 62.9 42.8 79.4

83 77.0 59.9 111.3

85 52.4 37.9 70.5



#46

Tetrachloroethene

Concen: 1.054 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.006 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Tgt Ion:164 Resp: 3931

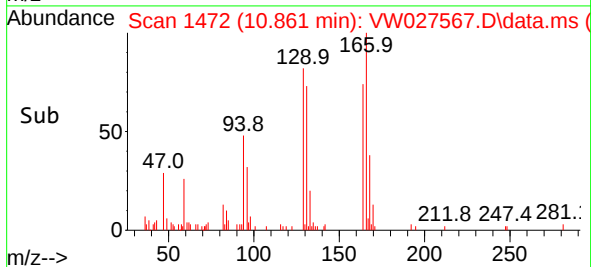
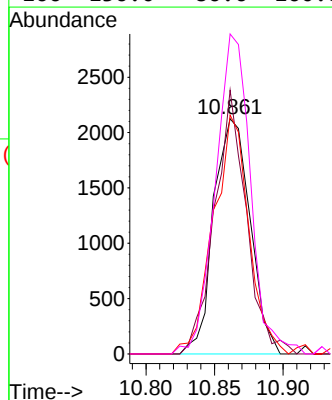
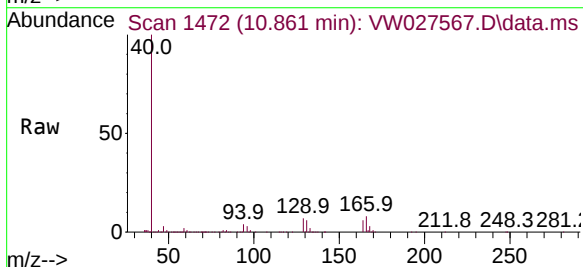
Ion Ratio Lower Upper

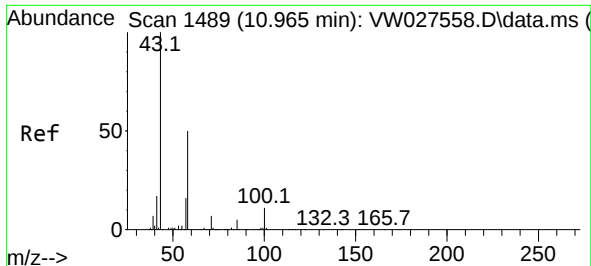
164 100

129 112.1 71.0 131.8

131 101.6 61.2 113.6

166 136.0 86.6 160.8

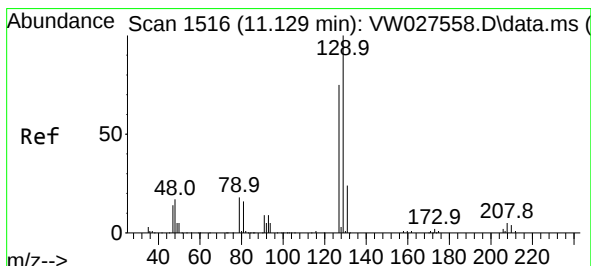
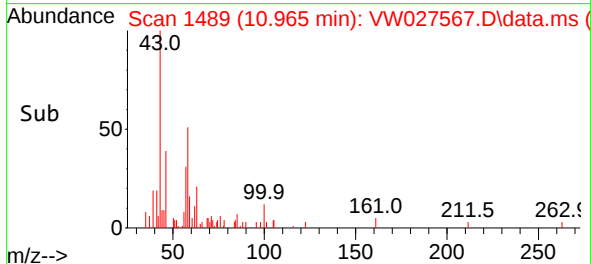
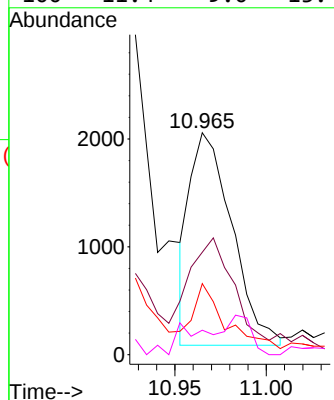
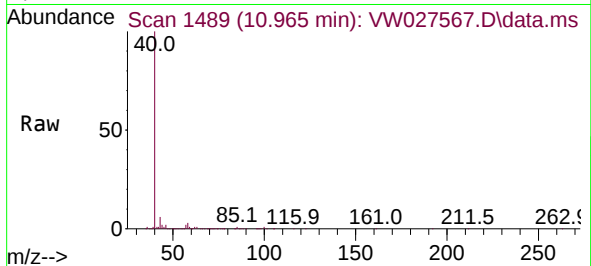




#48
2-Hexanone
Concen: 1.309 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

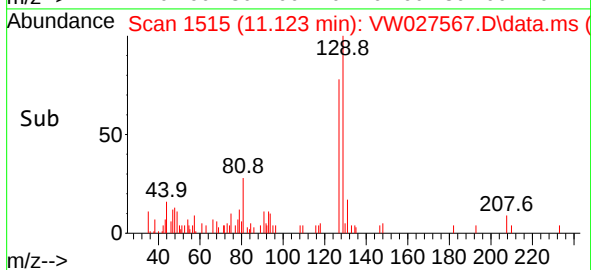
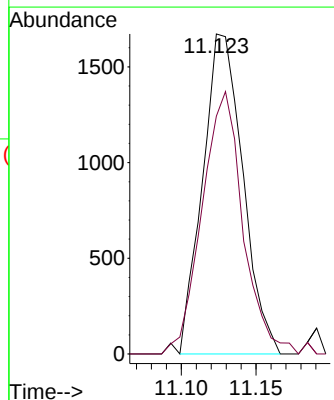
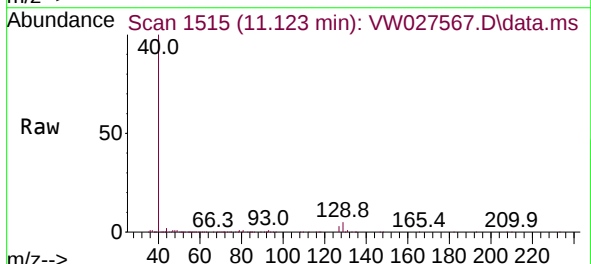
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

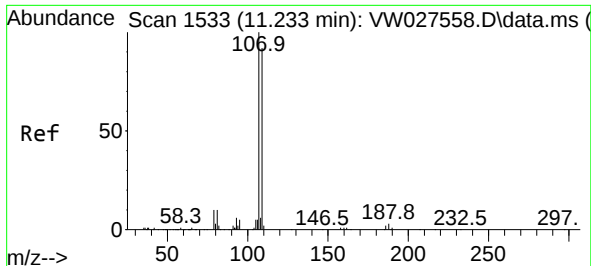
Tgt Ion: 43	Resp: 3154
Ion Ratio	Lower Upper
43 100	
58 49.3	40.8 61.2
57 27.1	14.8 22.2#
100 11.4	9.0 13.4



#49
Dibromochloromethane
Concen: 0.900 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.006 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion:129	Resp:	3131	
Ion	Ratio	Lower	Upper
129	100		
127	74.3	52.3	97.1





#50

1,2-Dibromoethane

Concen: 0.960 ug/L

RT: 11.233 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

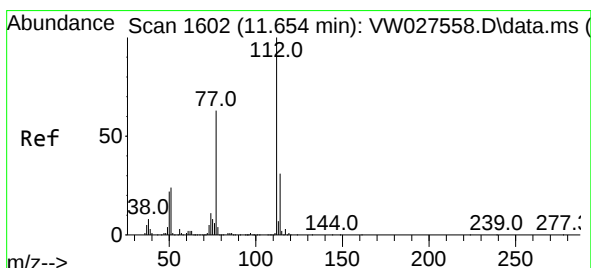
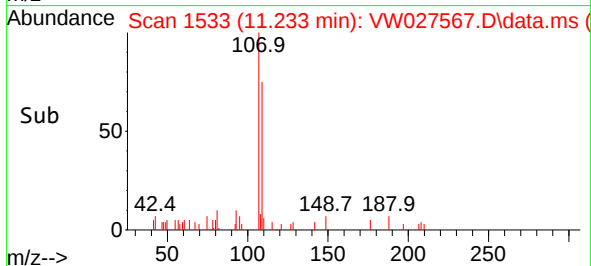
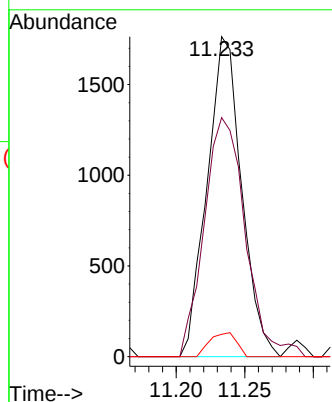
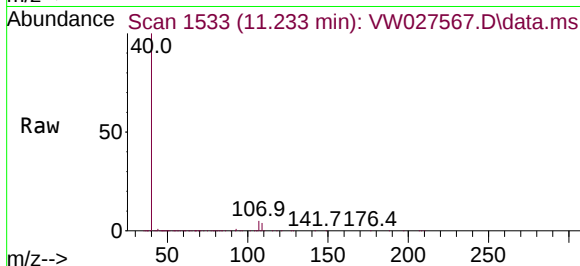
Tgt Ion:107 Resp: 3092

Ion Ratio Lower Upper

107 100

109 74.7 64.8 120.3

188 7.0 2.7 4.1#



#51

Chlorobenzene

Concen: 0.968 ug/L

RT: 11.660 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

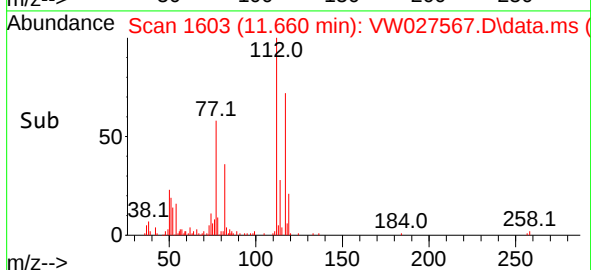
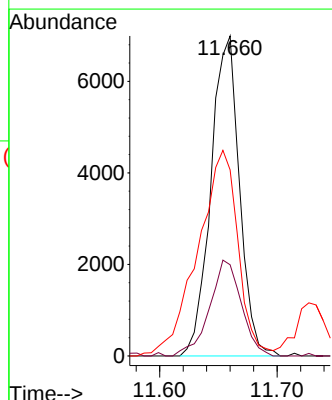
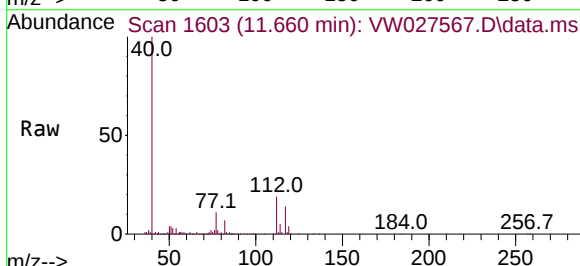
Tgt Ion:112 Resp: 11835

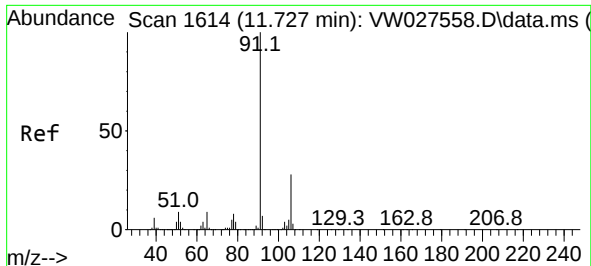
Ion Ratio Lower Upper

112 100

114 28.5 21.5 39.9

77 58.1 50.6 76.0

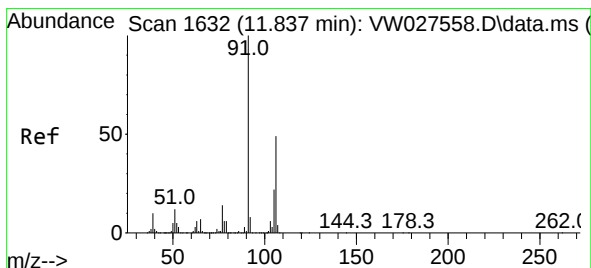
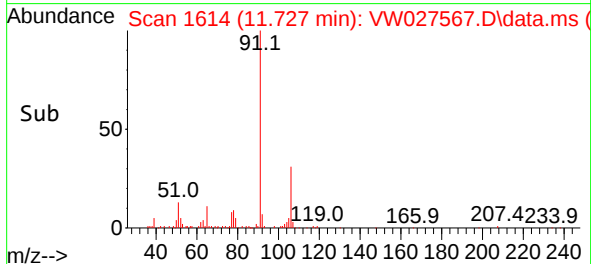
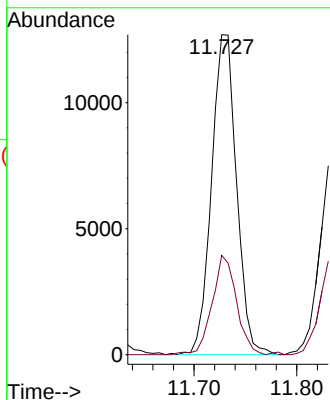
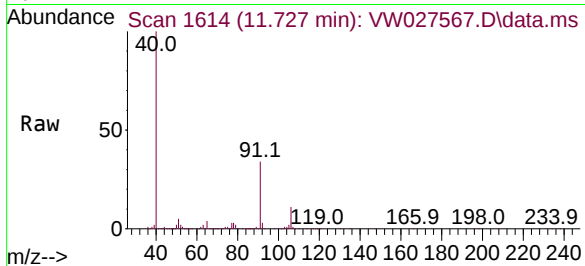




#52
Ethylbenzene
Concen: 0.931 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

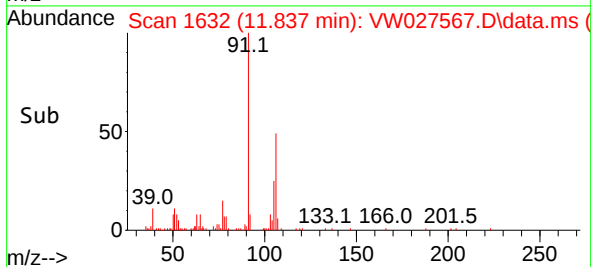
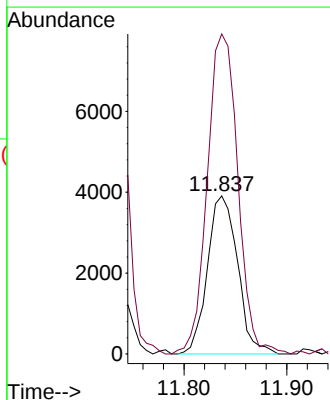
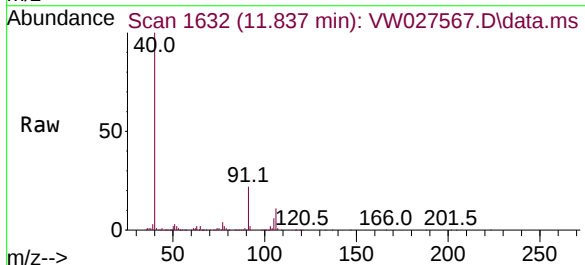
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

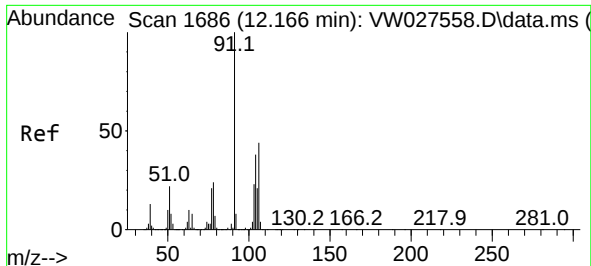
Tgt Ion: 91 Resp: 21427
Ion Ratio Lower Upper
91 100
106 31.1 19.5 36.1



#53
m,p-Xylene
Concen: 0.940 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 106 Resp: 7973
Ion Ratio Lower Upper
106 100
91 202.5 142.1 263.9

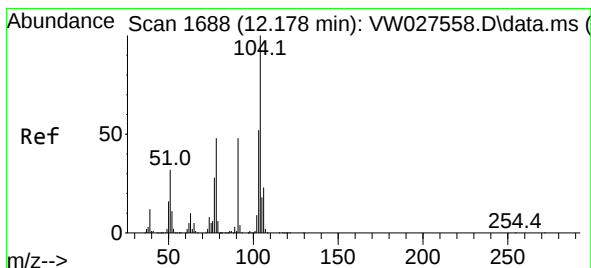
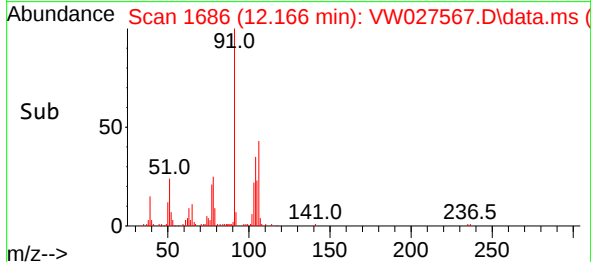
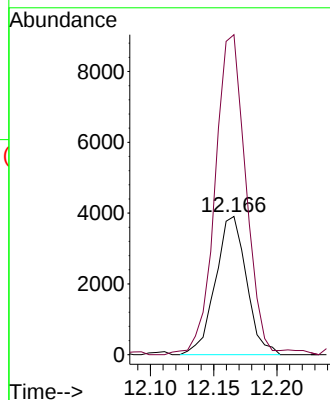
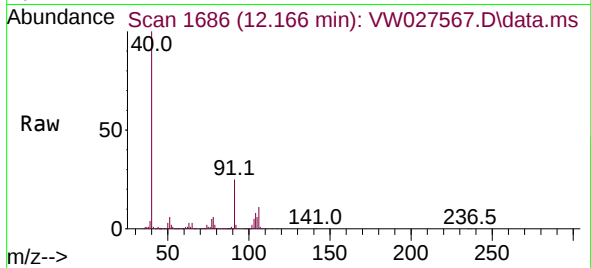




#54
o-Xylene
Concen: 0.864 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

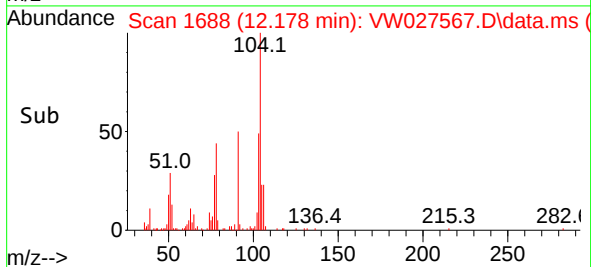
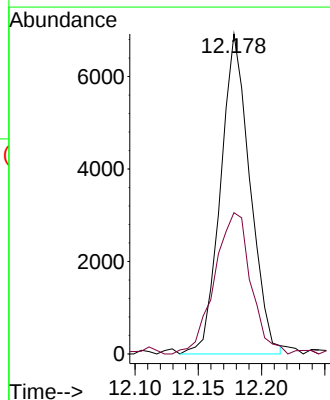
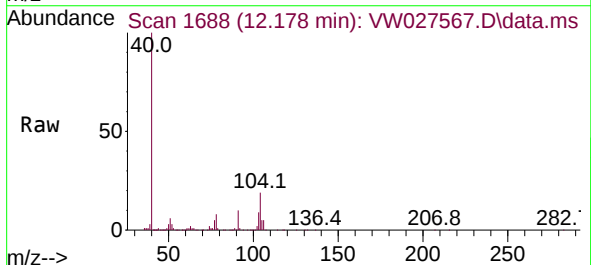
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

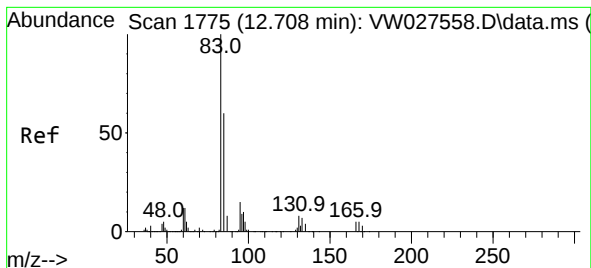
Tgt Ion:106 Resp: 6660
Ion Ratio Lower Upper
106 100
91 231.6 158.8 295.0



#55
Styrene
Concen: 0.849 ug/L
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion:104 Resp: 11171
Ion Ratio Lower Upper
104 100
78 44.2 33.9 62.9

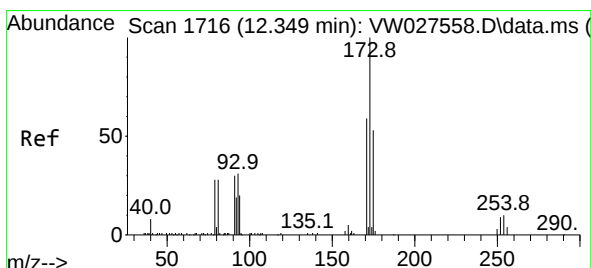
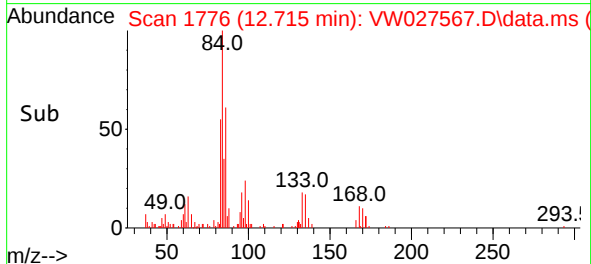
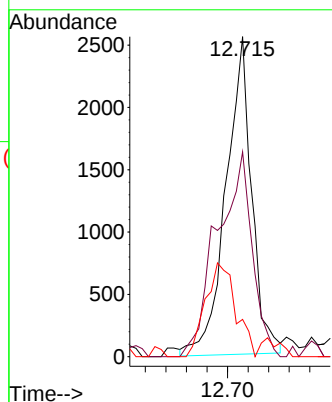
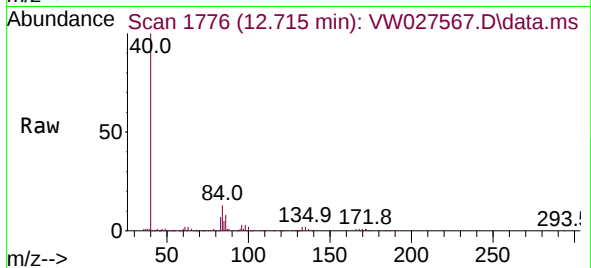




#57
1,1,2,2-Tetrachloroethane
Concen: 0.967 ug/L
RT: 12.715 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

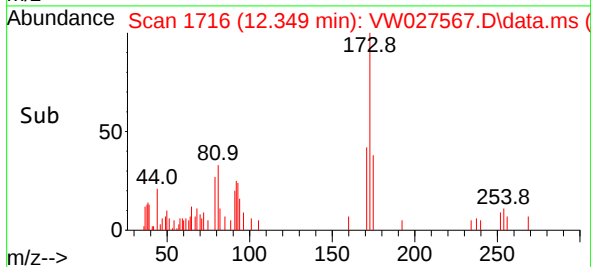
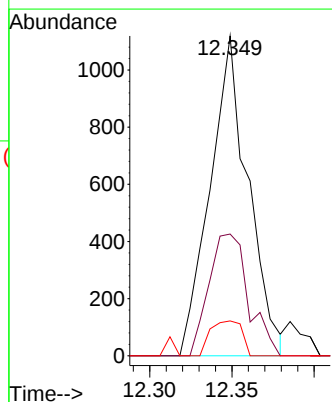
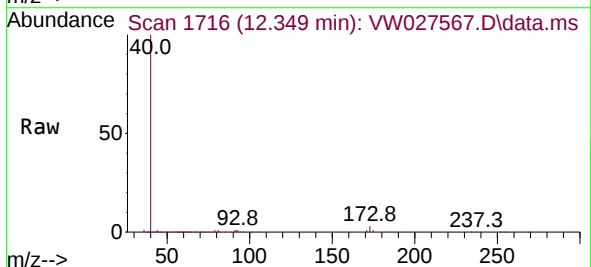
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

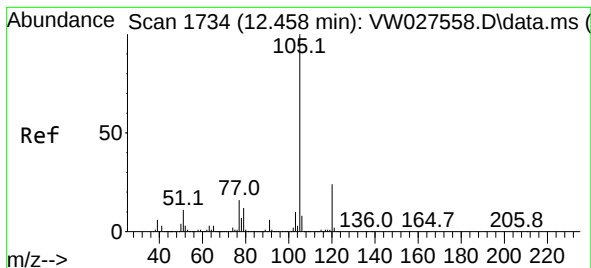
Tgt Ion: 83 Resp: 4431
Ion Ratio Lower Upper
83 100
85 64.0 41.9 77.7
131 11.6 7.0 10.6#



#59
Bromoform
Concen: 1.003 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VW027567.D
Acq: 06 Dec 2023 14:38

Tgt Ion: 173 Resp: 1800
Ion Ratio Lower Upper
173 100
175 39.7 39.4 59.0
254 9.0 7.8 11.8





#60

Isopropylbenzene

Concen: 0.954 ug/L

RT: 12.459 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

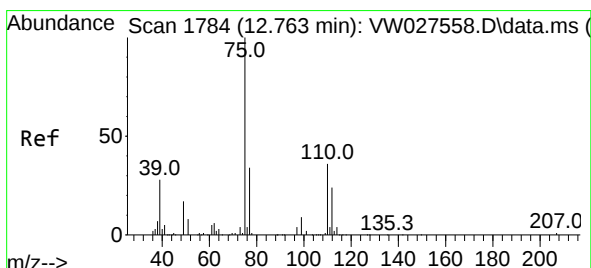
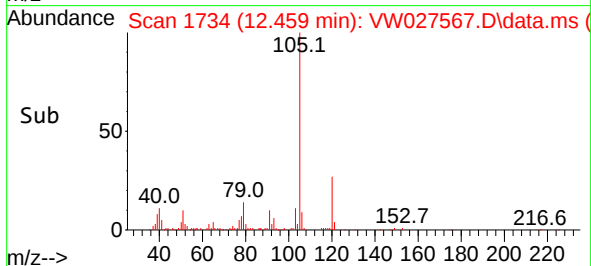
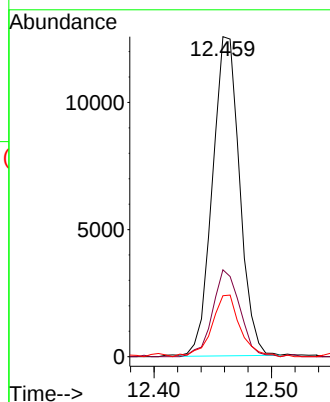
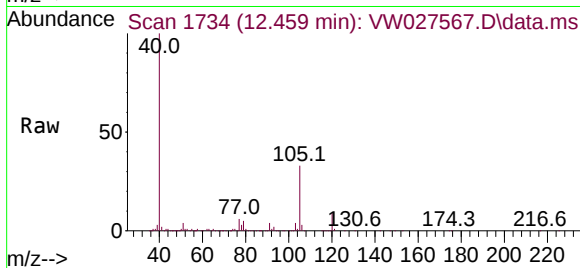
Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion:	105	Resp:	20185
Ion Ratio	Lower	Upper	
105	100		
120	27.4	20.3	30.5
77	20.1	13.1	19.7#



#61

1,2,3-Trichloropropane

Concen: 0.958 ug/L

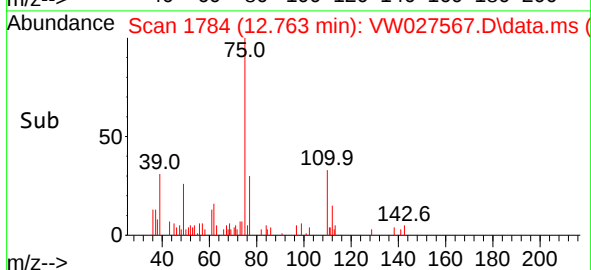
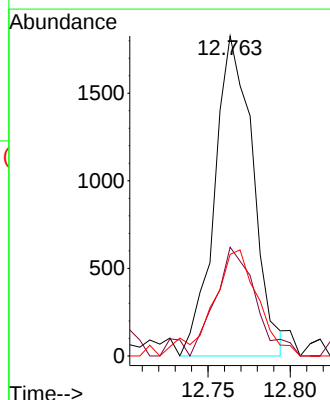
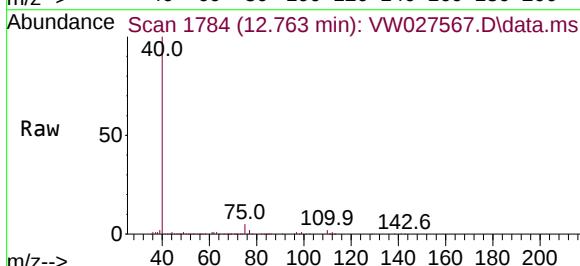
RT: 12.763 min Scan# 1784

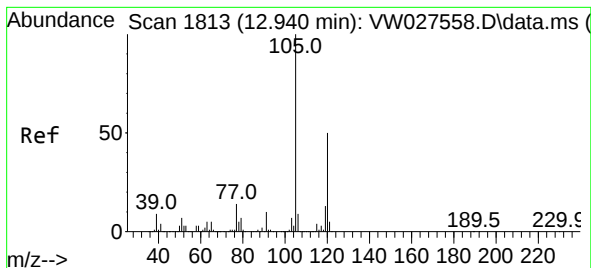
Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Tgt Ion:	75	Resp:	2959
Ion Ratio	Lower	Upper	
75	100		
77	33.6	26.6	39.8
110	36.5	30.2	45.4





#62

1,3,5-Trimethylbenzene

Concen: 0.898 ug/L

RT: 12.940 min Scan# 1813

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

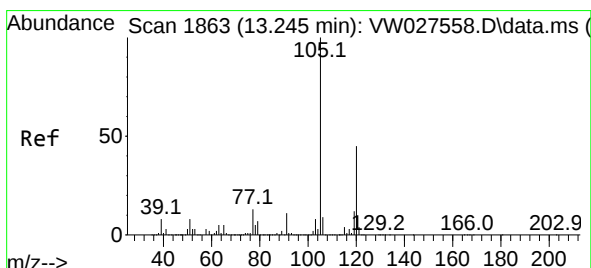
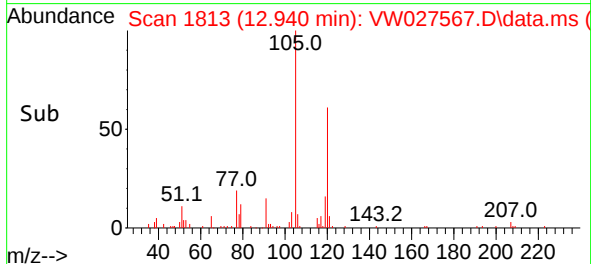
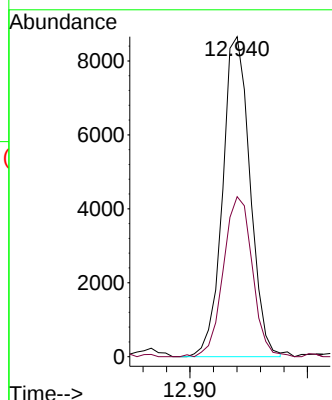
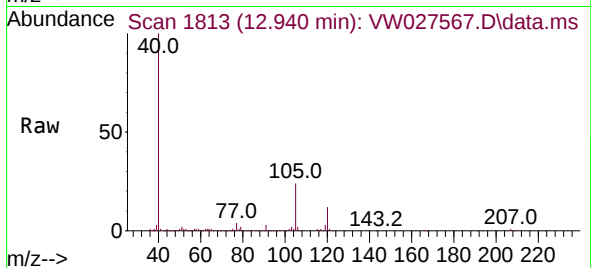
MDL-SOIL-QT4-2023-08

Tgt Ion:105 Resp: 14047

Ion Ratio Lower Upper

105 100

120 52.5 38.7 58.1



#63

1,2,4-Trimethylbenzene

Concen: 0.930 ug/L

RT: 13.245 min Scan# 1863

Delta R.T. 0.000 min

Lab File: VW027567.D

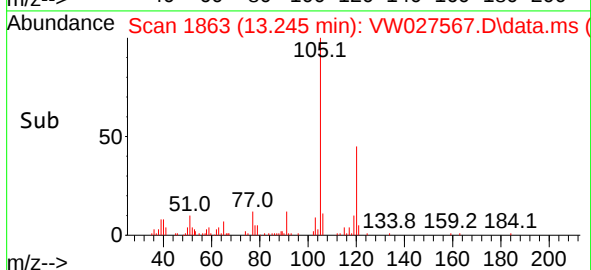
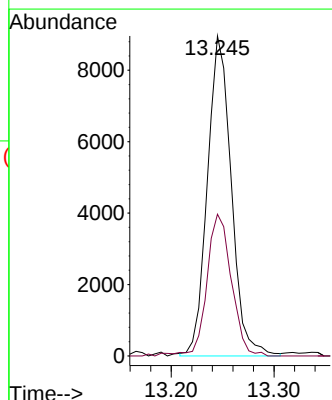
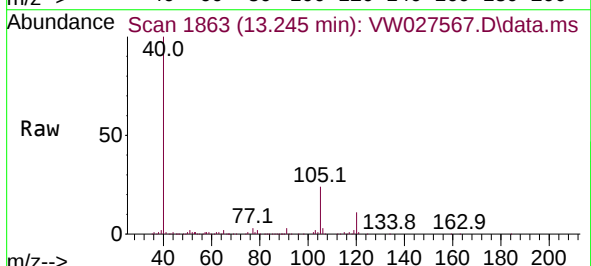
Acq: 06 Dec 2023 14:38

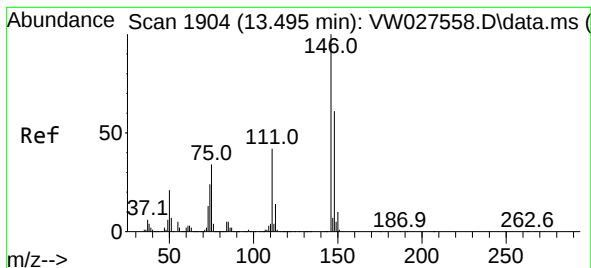
Tgt Ion:105 Resp: 14496

Ion Ratio Lower Upper

105 100

120 44.2 36.9 55.3





#64

1,3-Dichlorobenzene

Concen: 0.976 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

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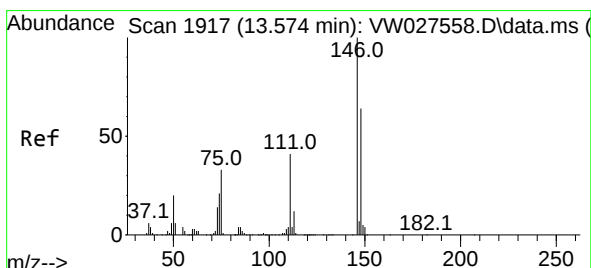
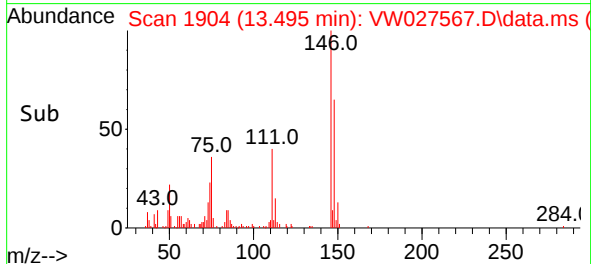
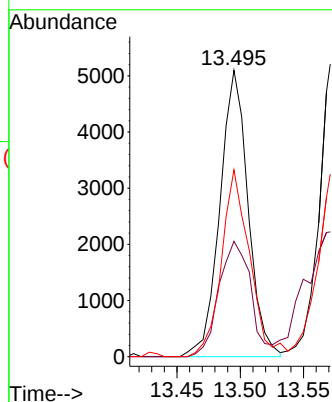
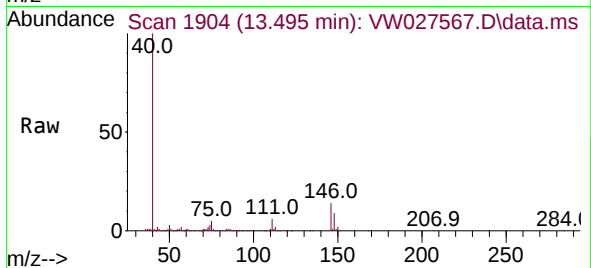
Tgt Ion:146 Resp: 7909

Ion Ratio Lower Upper

146 100

111 40.3 29.5 54.7

148 65.2 42.8 79.6



#65

1,4-Dichlorobenzene

Concen: 1.101 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

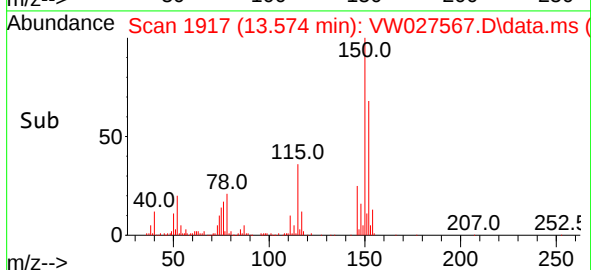
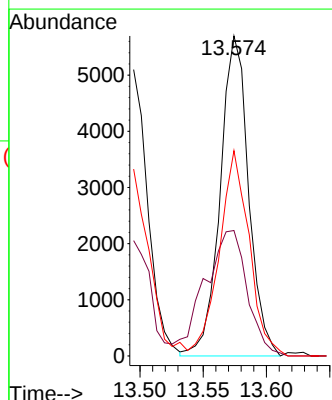
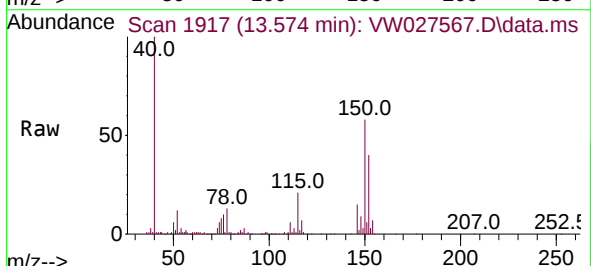
Tgt Ion:146 Resp: 8897

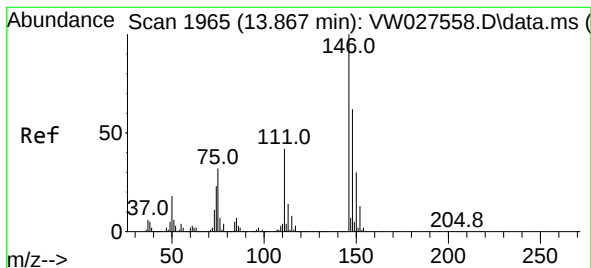
Ion Ratio Lower Upper

146 100

111 39.2 28.9 53.7

148 64.1 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 0.973 ug/L

RT: 13.867 min Scan# 1965

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

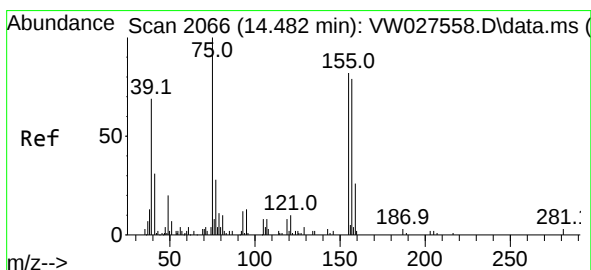
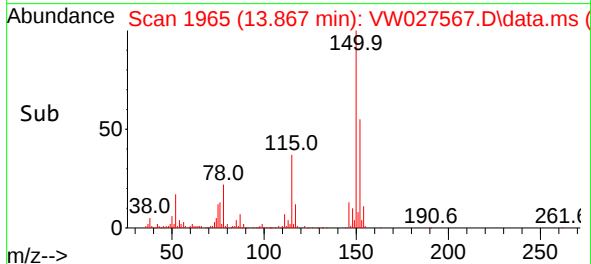
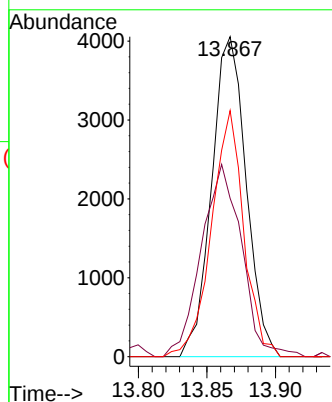
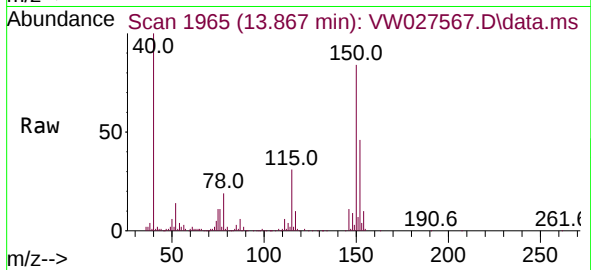
Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion:	146	Resp:	7099
Ion Ratio	Lower	Upper	
146	100		
111	49.5	33.9	50.9
148	76.9	49.5	74.3



#68

1,2-Dibromo-3-chloropropane

Concen: 2.146 ug/L

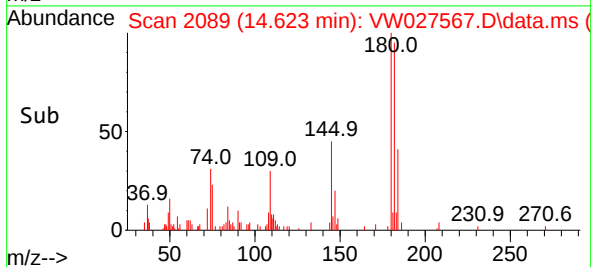
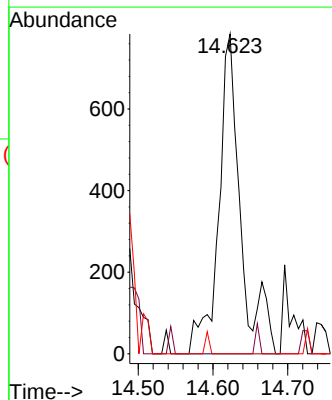
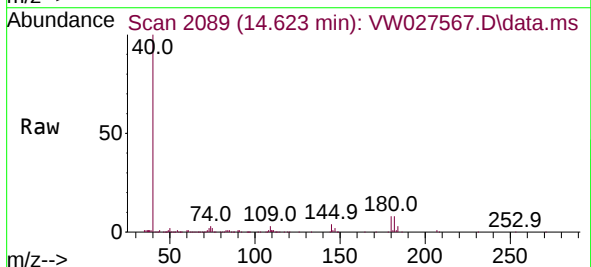
RT: 14.623 min Scan# 2089

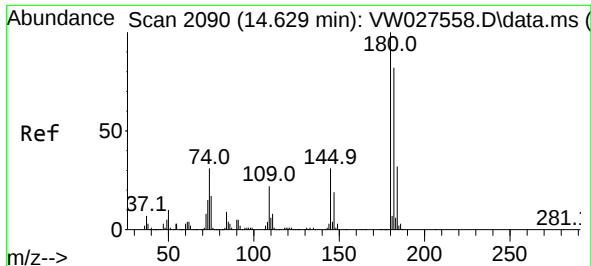
Delta R.T. 0.140 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Tgt Ion:	75	Resp:	1595
Ion Ratio	Lower	Upper	
75	100		
155	0.0	65.8	98.8
157	0.0	63.0	94.6





#69

1,3,5-Trichlorobenzene

Concen: 0.999 ug/L

RT: 14.629 min Scan# 2090

Delta R.T. 0.000 min

Lab File: VW027567.D

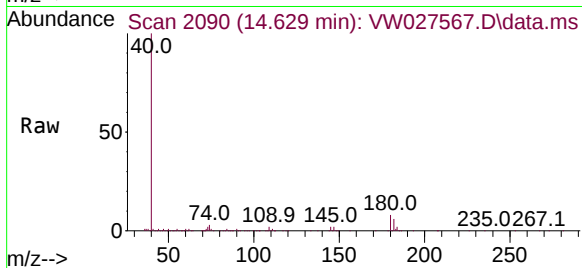
Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08



Tgt Ion:180 Resp: 5443

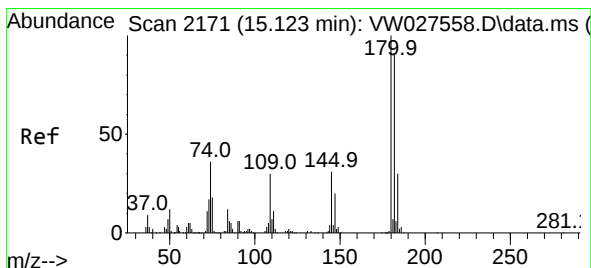
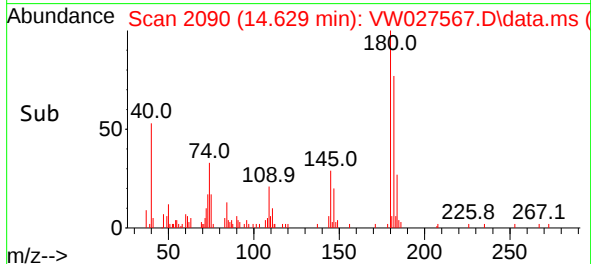
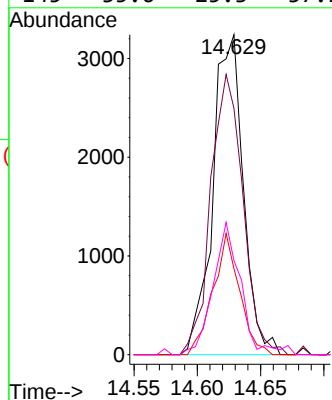
Ion Ratio Lower Upper

180 100

182 92.0 73.2 109.8

184 33.0 25.4 38.2

145 35.6 25.3 37.9



#70

1,2,4-trichlorobenzene

Concen: 1.078 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.006 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

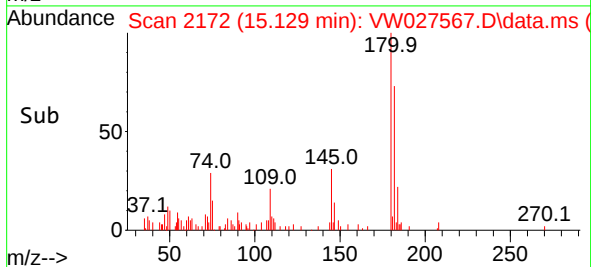
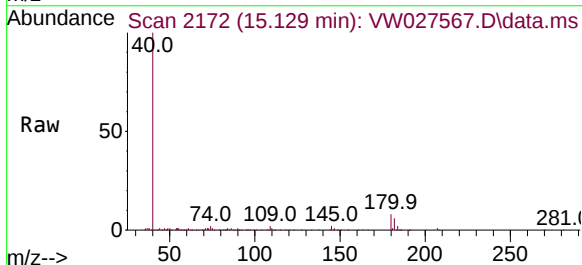
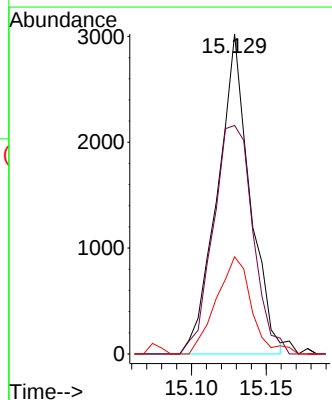
Tgt Ion:180 Resp: 4559

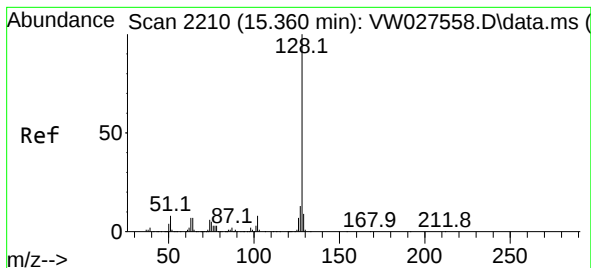
Ion Ratio Lower Upper

180 100

182 87.5 78.7 118.1

145 31.8 26.8 40.2





#71

Naphthalene

Concen: 0.876 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

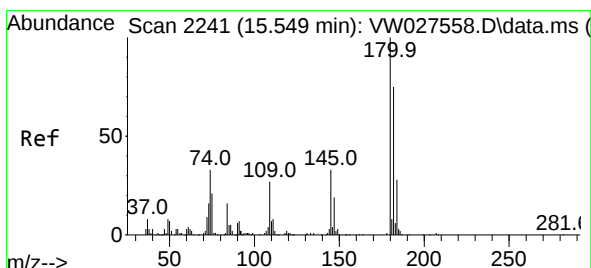
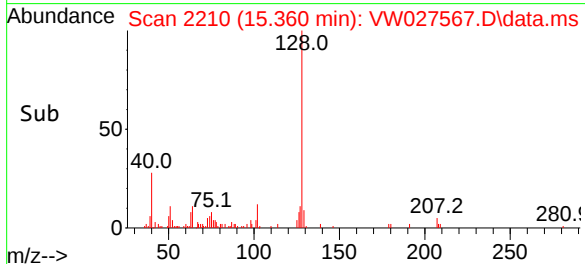
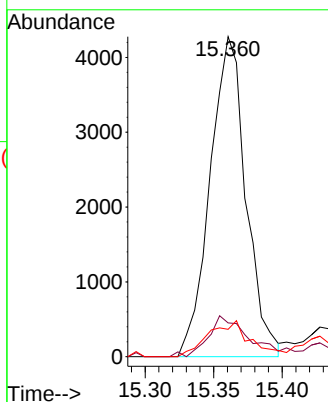
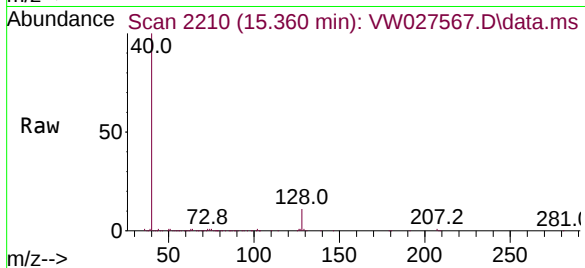
Tgt Ion:128 Resp: 7799

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 6.0 8.6 12.8#



#72

1,2,3-Trichlorobenzene

Concen: 0.966 ug/L

RT: 15.549 min Scan# 2241

Delta R.T. 0.000 min

Lab File: VW027567.D

Acq: 06 Dec 2023 14:38

Tgt Ion:180 Resp: 3501

Ion Ratio Lower Upper

180 100

182 93.4 72.4 108.6

145 35.1 27.4 41.0

