

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041323\
 Data File : VN077322.D
 Acq On : 13 Apr 2023 12:34
 Operator : JC\MD
 Sample : 02288-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: Apr 14 07:23:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

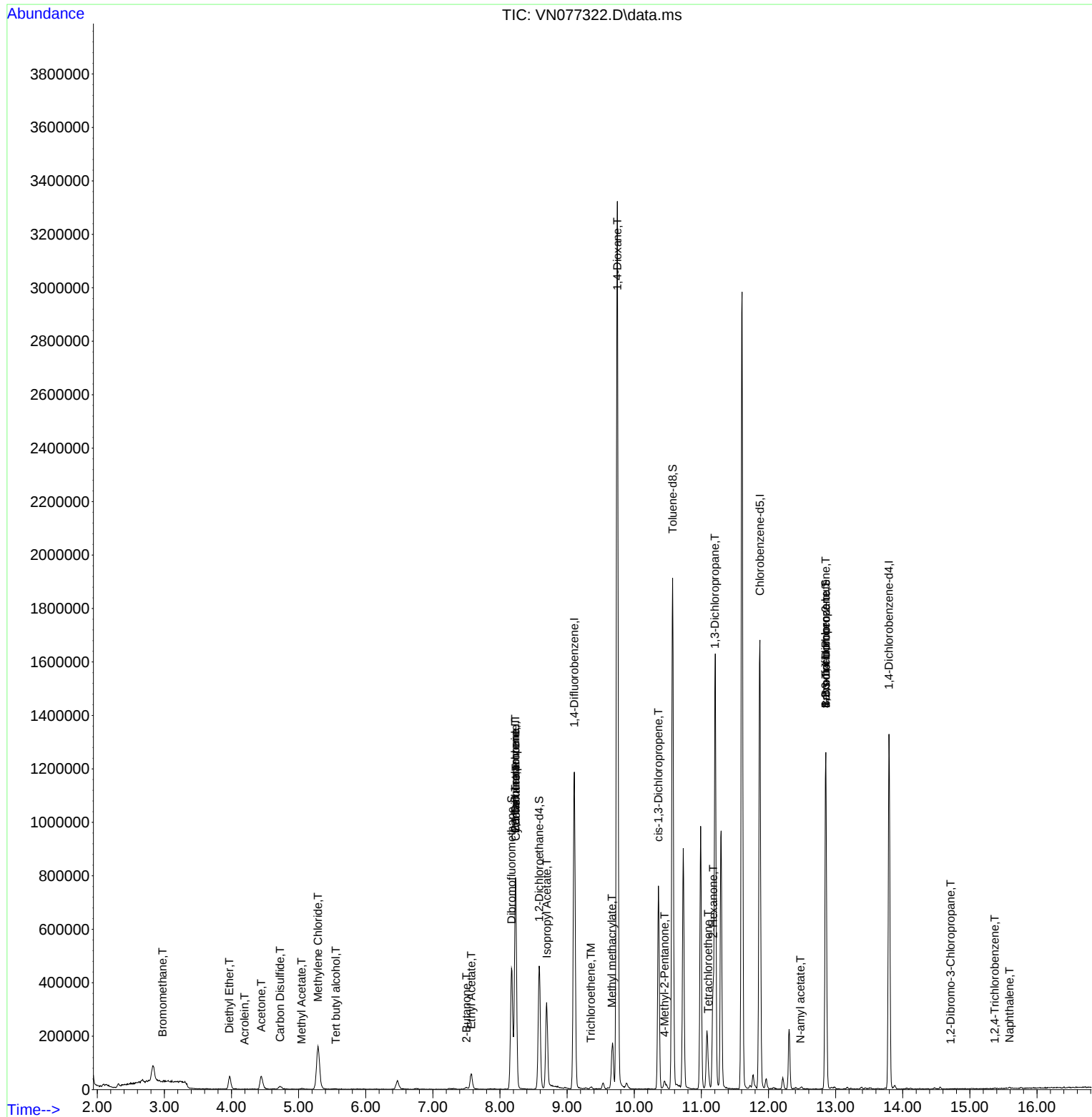
Internal Standards						
1) Pentafluorobenzene	8.231	168	567765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1088843	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	1005426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	355625	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	353541	45.560	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.120%		
35) Dibromofluoromethane	8.172	113	324502	46.554	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.100%		
50) Toluene-d8	10.572	98	1358989	48.430	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.860%		
62) 4-Bromofluorobenzene	12.854	95	441913	47.351	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.700%		
Target Compounds						Qvalue
5) Bromomethane	2.972	94	1801	0.204	ug/l #	36
8) Diethyl Ether	3.966	74	31098	7.029	ug/l	97
11) Tert butyl alcohol	5.554	59	1866	1.178	ug/l #	82
13) Acrolein	4.196	56	584	0.389	ug/l #	42
16) Acetone	4.443	43	90083	31.486	ug/l	92
17) Carbon Disulfide	4.725	76	21607	1.205	ug/l #	91
18) Methyl Acetate	5.043	43	5577	0.512	ug/l #	69
20) Methylene Chloride	5.290	84	141908	17.562	ug/l	94
25) 2-Butanone	7.501	43	10855	2.338	ug/l #	86
31) Cyclohexane	8.237	56	14612	1.212	ug/l #	38
36) 1,1-Dichloropropene	8.231	75	47749	4.632	ug/l #	51
37) Ethyl Acetate	7.572	43	79771	8.648	ug/l	96
38) Carbon Tetrachloride	8.231	117	61691	5.841	ug/l #	15
43) Isopropyl Acetate	8.695	43	377964	22.207	ug/l #	90
44) Trichloroethene	9.354	130	2701	0.351	ug/l	84
48) Methyl methacrylate	9.666	41	9277	1.278	ug/l #	40
49) 1,4-Dioxane	9.748	88	607	3.448	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	29632	3.012	ug/l #	77
54) cis-1,3-Dichloropropene	10.360	75	149227	11.218	ug/l #	62
57) 1,3-Dichloropropane	11.201	76	17926	1.313	ug/l #	44
59) 2-Hexanone	11.178	43	273711	37.345	ug/l #	20
64) Tetrachloroethene	11.101	164	7644	1.231	ug/l #	88
71) Bromoform	12.854	173	1884	0.320	ug/l #	1
74) N-amyl acetate	12.477	43	4450	0.340	ug/l #	40
76) 1,2,3-Trichloropropane	12.854	75	237208	28.011	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	237208	63.034	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	14.713	75	459	0.223	ug/l #	2
93) 1,2,4-Trichlorobenzene	15.371	180	1052	0.224	ug/l	78
95) Naphthalene	15.589	128	4908	0.278	ug/l #	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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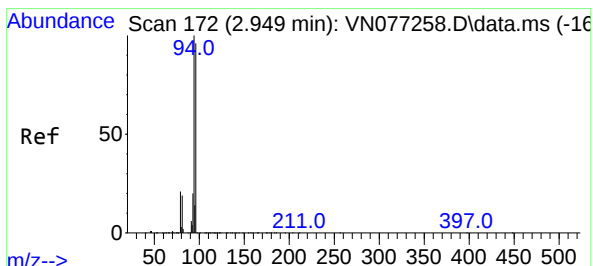
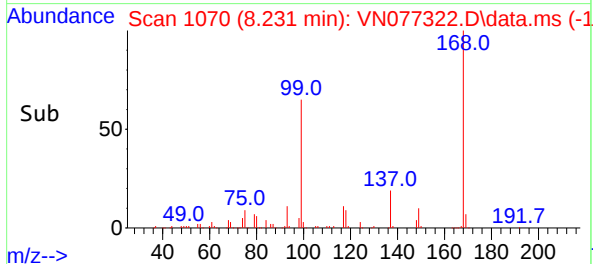
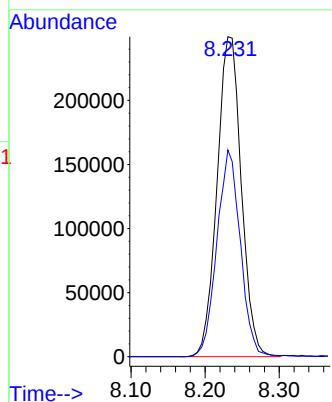
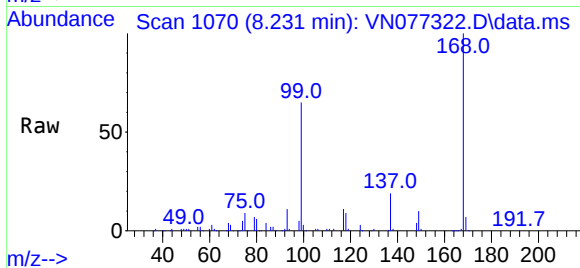




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

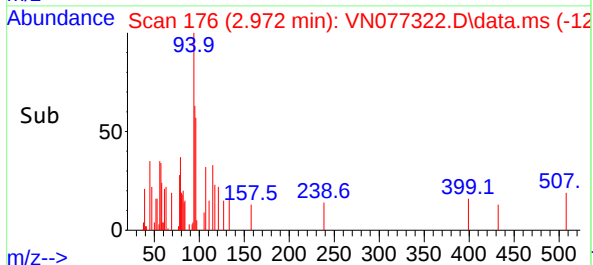
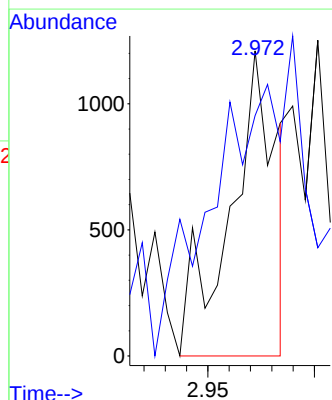
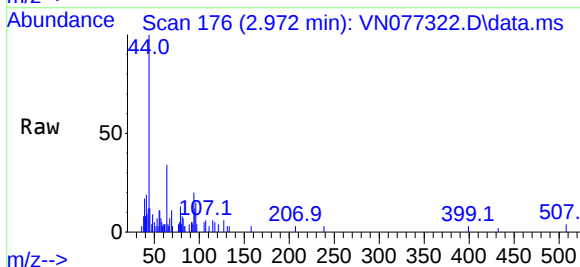
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

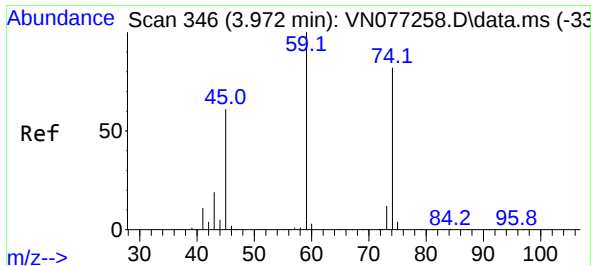
Tgt Ion:168 Resp: 567765
Ion Ratio Lower Upper
168 100
99 64.6 50.6 75.8



#5
Bromomethane
Concen: 0.204 ug/l
RT: 2.972 min Scan# 176
Delta R.T. 0.023 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 94 Resp: 1801
Ion Ratio Lower Upper
94 100
96 34.0 77.0 115.4#





#8

Diethyl Ether

Concen: 7.029 ug/l

RT: 3.966 min Scan# 34

Delta R.T. -0.006 min

Lab File: VN077322.D

Acq: 13 Apr 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

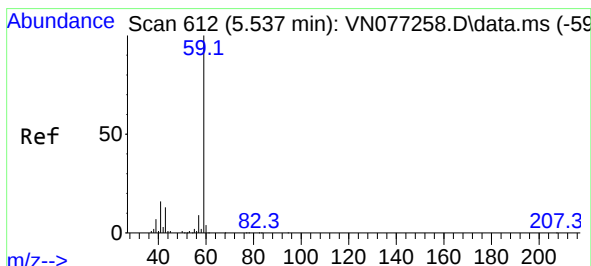
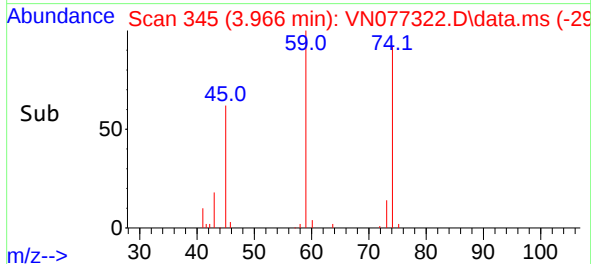
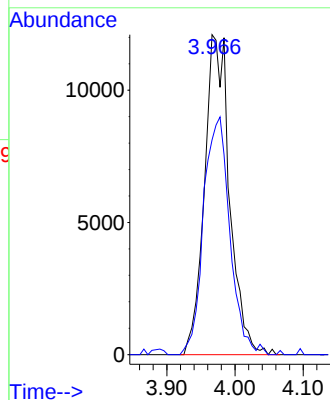
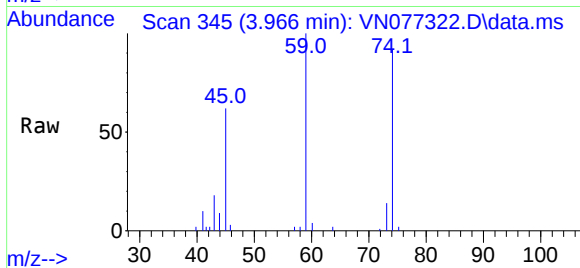
SOIL-CUTTINGS

Tgt Ion: 74 Resp: 31098

Ion Ratio Lower Upper

74 100

45 77.8 37.8 113.4



#11

Tert butyl alcohol

Concen: 1.178 ug/l

RT: 5.554 min Scan# 615

Delta R.T. 0.017 min

Lab File: VN077322.D

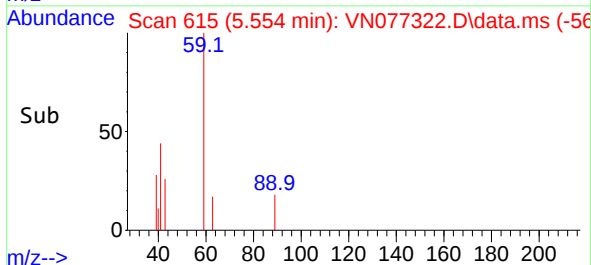
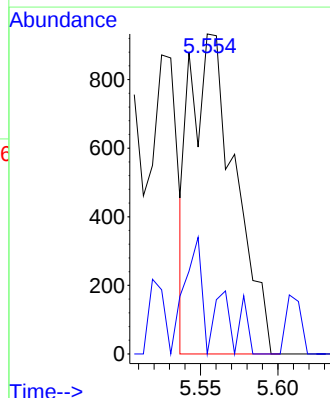
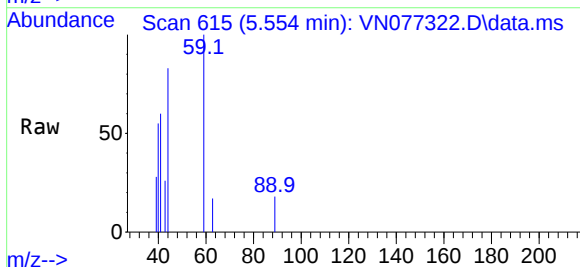
Acq: 13 Apr 2023 12:34

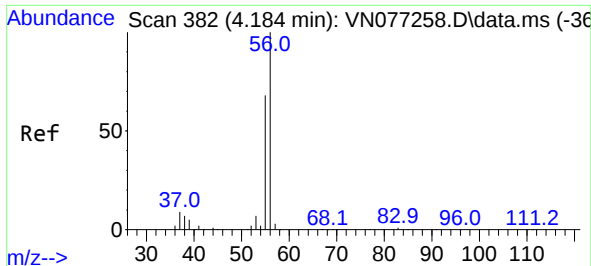
Tgt Ion: 59 Resp: 1866

Ion Ratio Lower Upper

59 100

57 17.1 8.3 12.5#

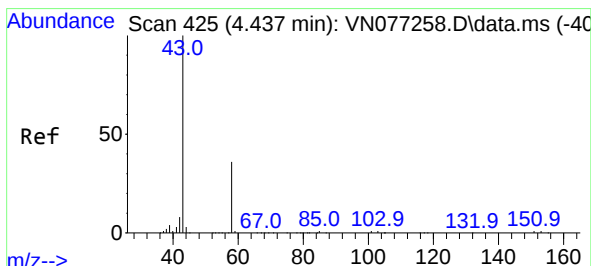
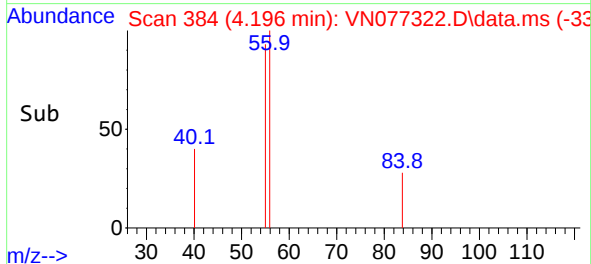
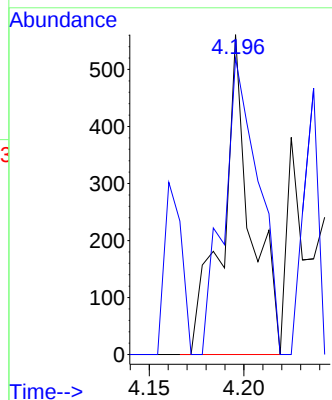
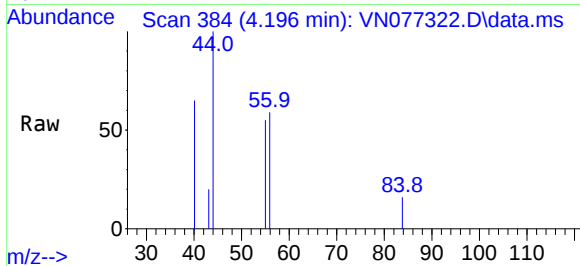




#13
Acrolein
Concen: 0.389 ug/l
RT: 4.196 min Scan# 384
Delta R.T. 0.012 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

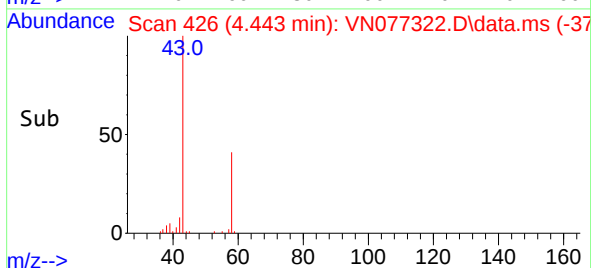
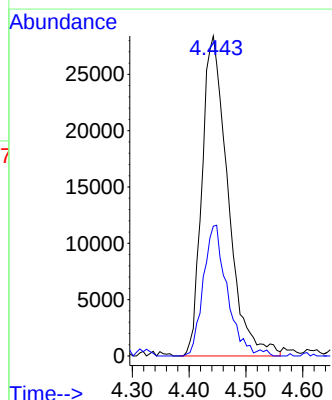
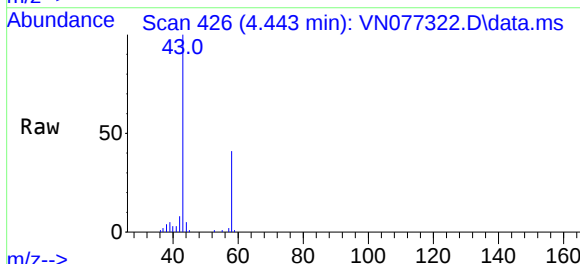
Instrument :
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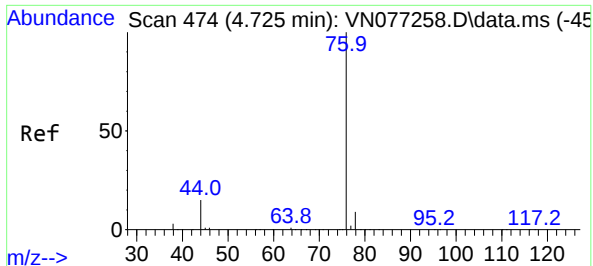
Tgt Ion: 56 Resp: 584
Ion Ratio Lower Upper
56 100
55 114.4 54.2 81.2#



#16
Acetone
Concen: 31.486 ug/l
RT: 4.443 min Scan# 426
Delta R.T. 0.006 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 90083
Ion Ratio Lower Upper
43 100
58 41.1 29.0 43.6

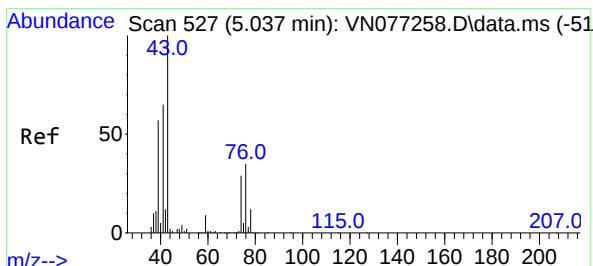
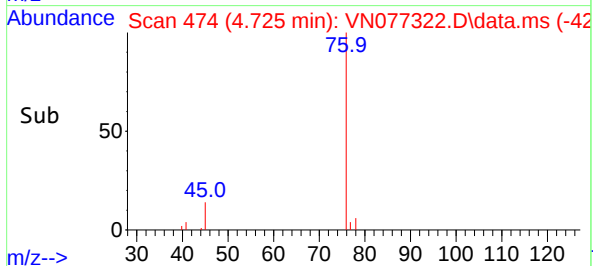
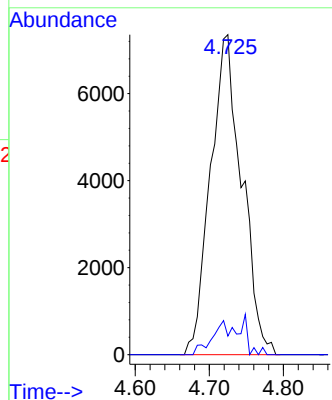
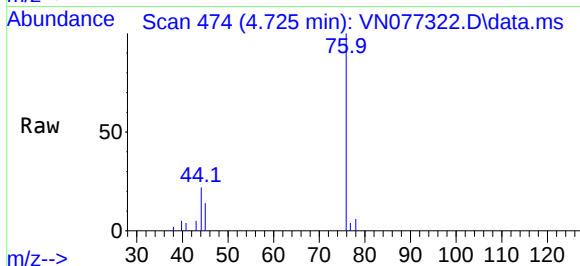




#17
Carbon Disulfide
Concen: 1.205 ug/l
RT: 4.725 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

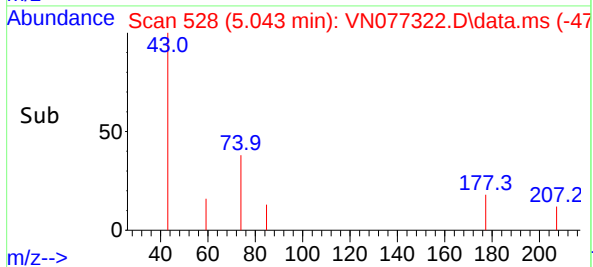
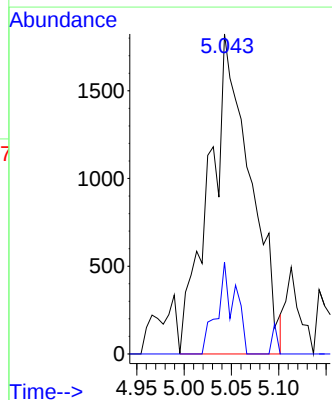
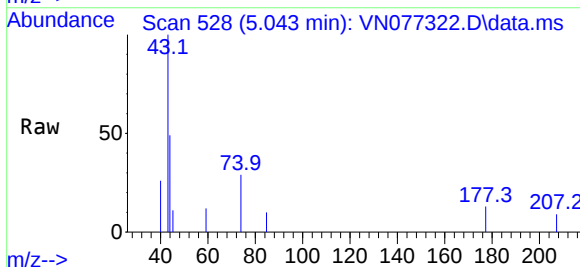
Instrument :
MSVOA_N
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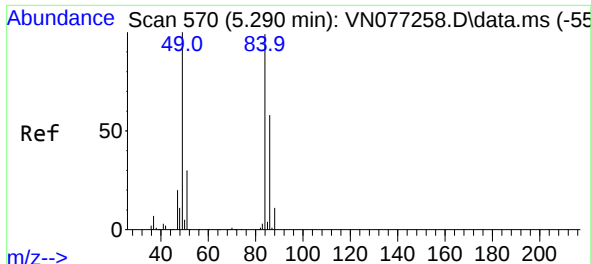
Tgt Ion: 76 Resp: 21607
Ion Ratio Lower Upper
76 100
78 5.8 7.3 10.9#



#18
Methyl Acetate
Concen: 0.512 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 5577
Ion Ratio Lower Upper
43 100
74 12.5 23.4 35.2#

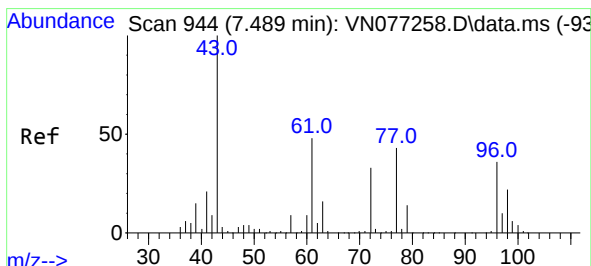
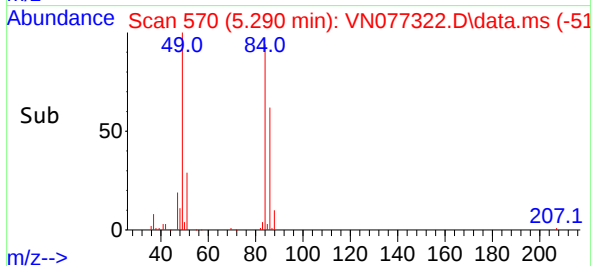
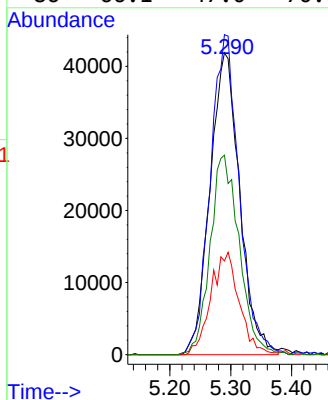
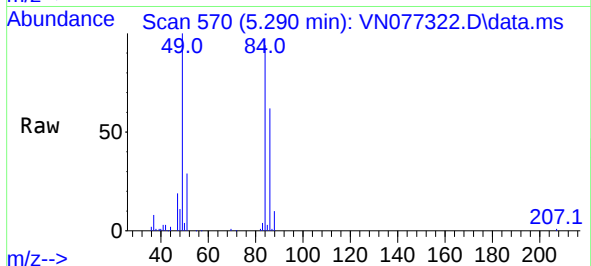




#20
Methylene Chloride
Concen: 17.562 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

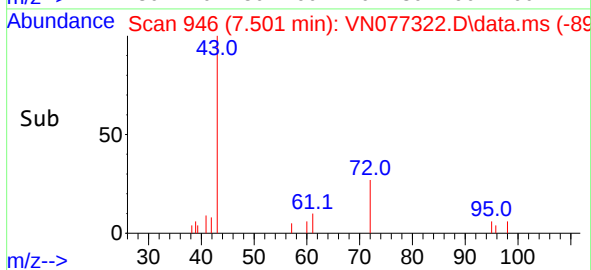
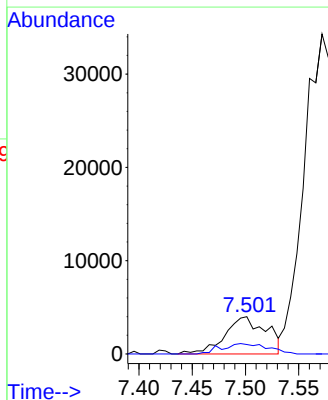
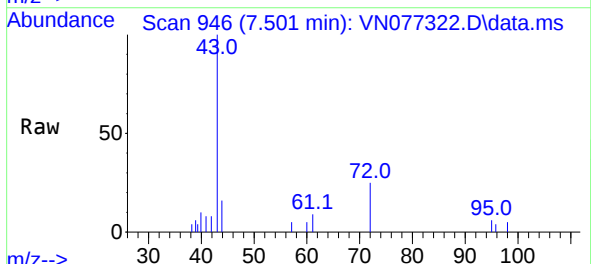
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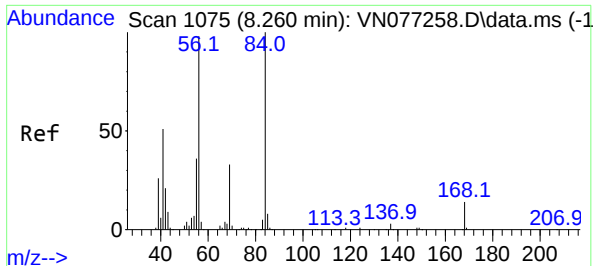
Tgt Ion: 84 Resp: 141908
Ion Ratio Lower Upper
84 100
49 106.0 80.6 121.0
51 31.1 24.4 36.6
86 66.1 47.0 70.6



#25
2-Butanone
Concen: 2.338 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 10855
Ion Ratio Lower Upper
43 100
72 25.5 26.6 39.8#





#31

Cyclohexane

Concen: 1.212 ug/l

RT: 8.237 min Scan# 1075

Delta R.T. -0.023 min

Lab File: VN077322.D

Acq: 13 Apr 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

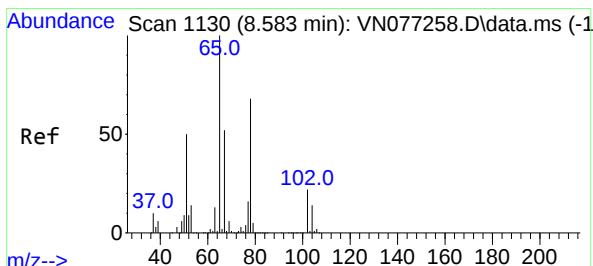
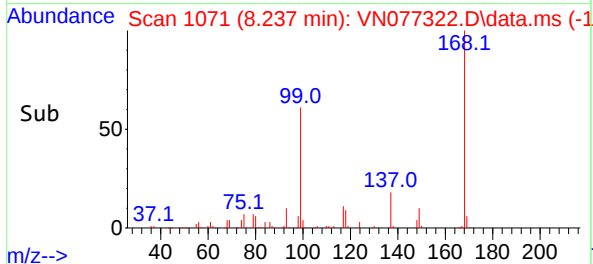
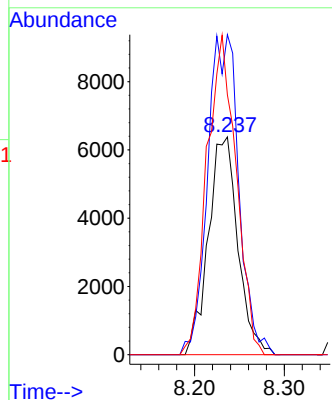
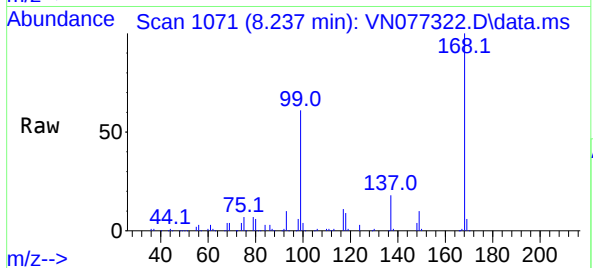
Tgt Ion: 56 Resp: 14612

Ion Ratio Lower Upper

56 100

69 146.9 26.6 40.0#

84 119.3 81.8 122.8



#33

1,2-Dichloroethane-d4

Concen: 45.560 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077322.D

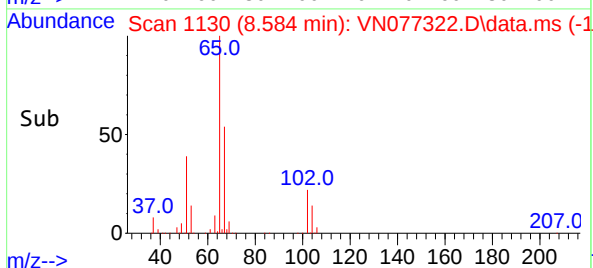
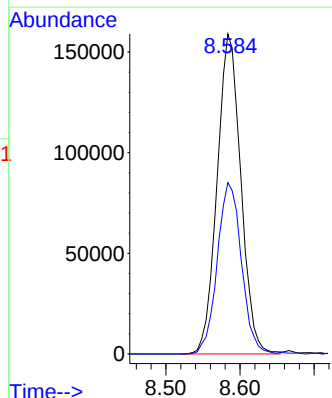
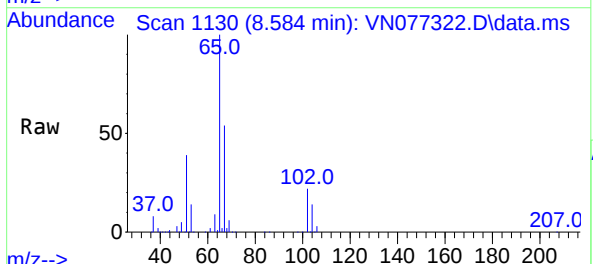
Acq: 13 Apr 2023 12:34

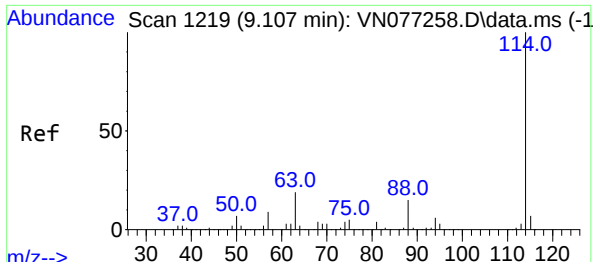
Tgt Ion: 65 Resp: 353541

Ion Ratio Lower Upper

65 100

67 54.4 0.0 108.8

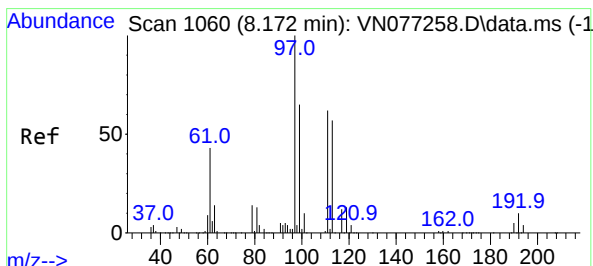
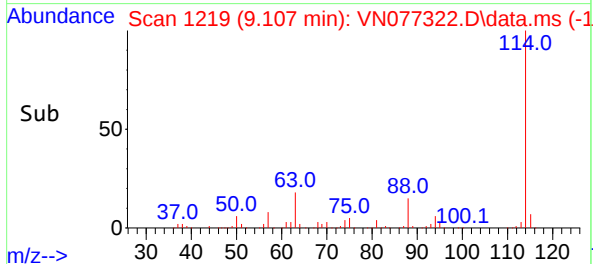
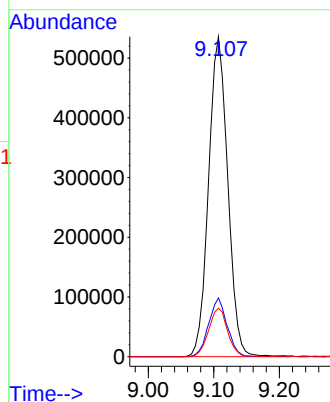
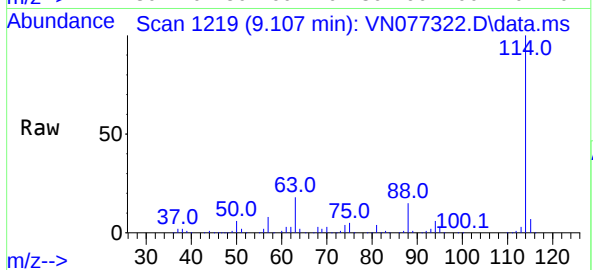




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

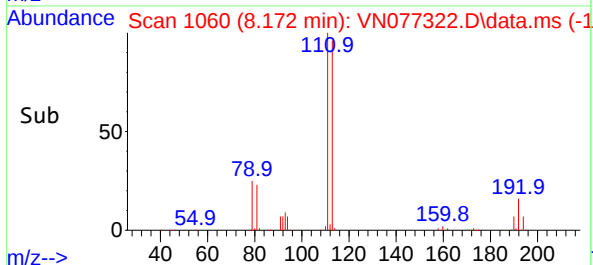
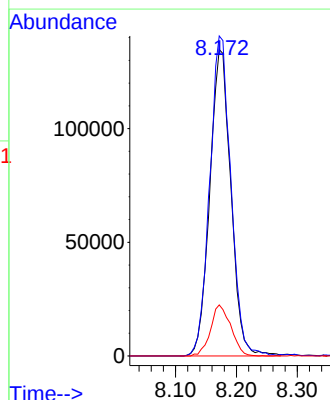
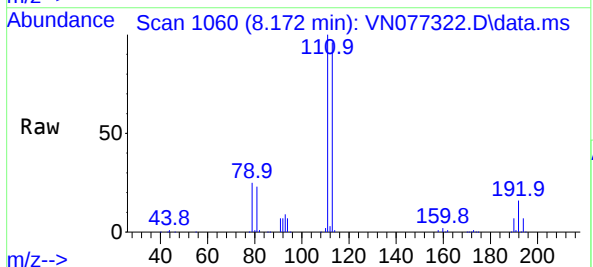
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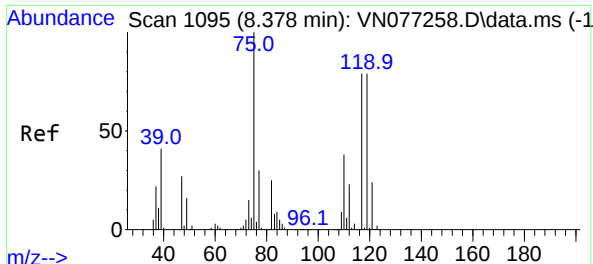
Tgt Ion:114 Resp: 1088843
Ion Ratio Lower Upper
114 100
63 18.4 0.0 37.8
88 15.2 0.0 29.4



#35
Dibromofluoromethane
Concen: 46.554 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion:113 Resp: 324502
Ion Ratio Lower Upper
113 100
111 104.3 83.4 125.0
192 16.0 13.5 20.3

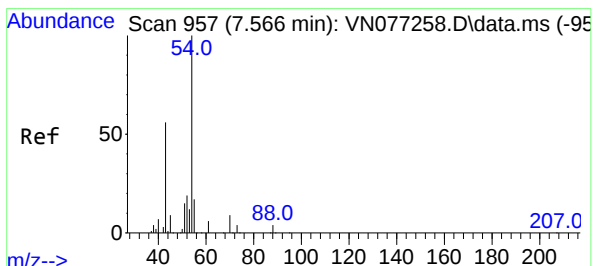
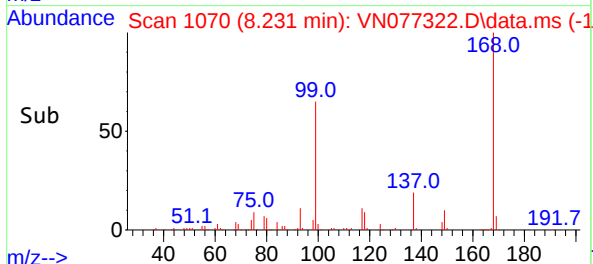
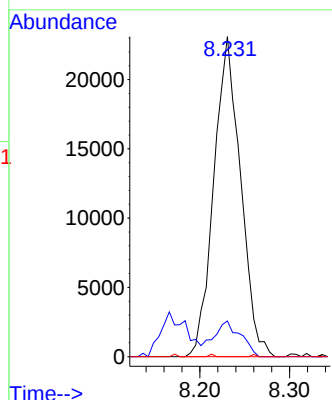
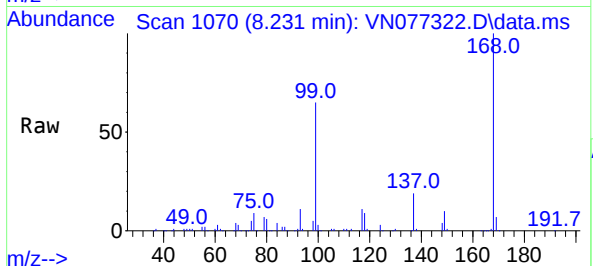




#36
1,1-Dichloropropene
Concen: 4.632 ug/l
RT: 8.231 min Scan# 1095
Delta R.T. -0.147 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

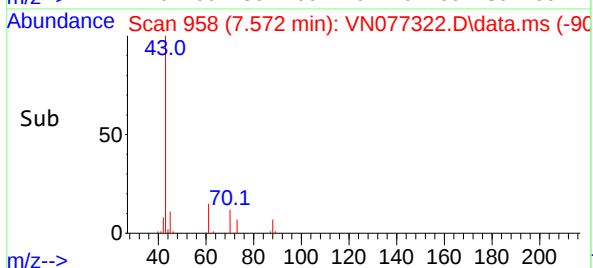
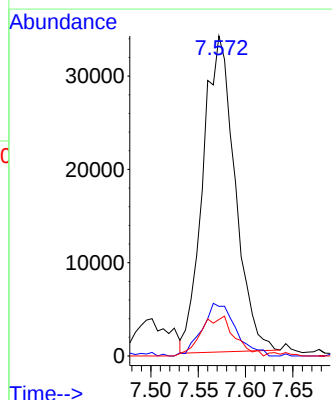
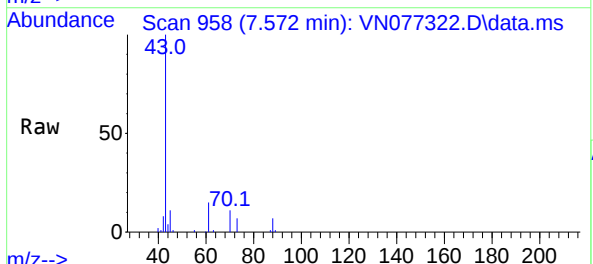
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

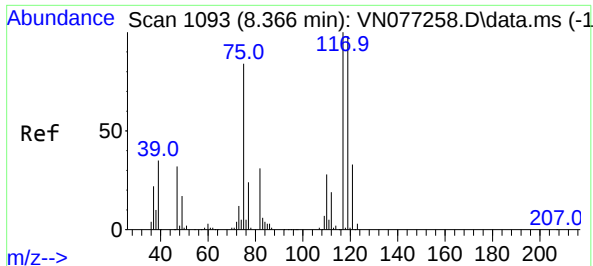
Tgt Ion: 75 Resp: 47749
Ion Ratio Lower Upper
75 100
110 11.2 17.8 53.5#
77 0.1 25.0 37.4#



#37
Ethyl Acetate
Concen: 8.648 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 79771
Ion Ratio Lower Upper
43 100
61 17.4 12.2 18.2
70 13.1 10.0 15.0

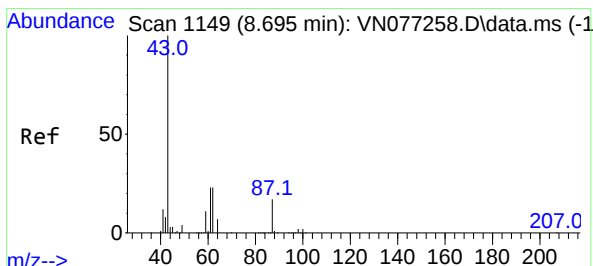
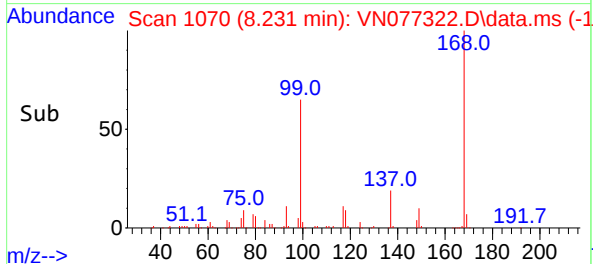
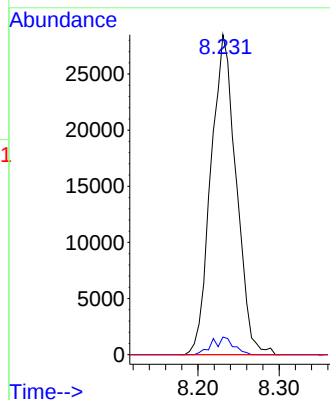
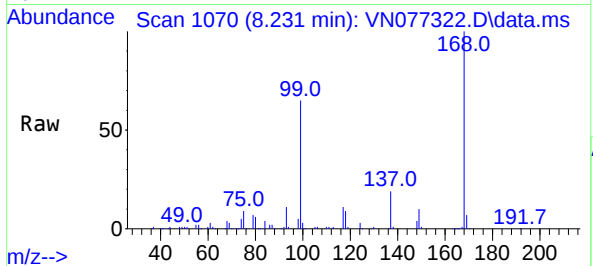




#38
Carbon Tetrachloride
Concen: 5.841 ug/l
RT: 8.231 min Scan# 1093
Delta R.T. -0.135 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

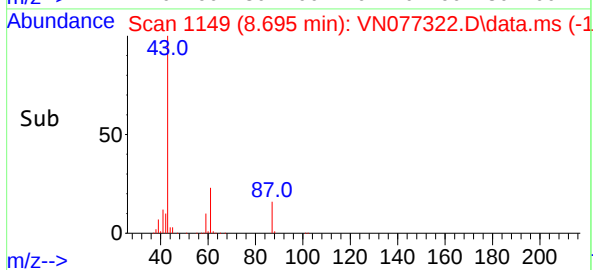
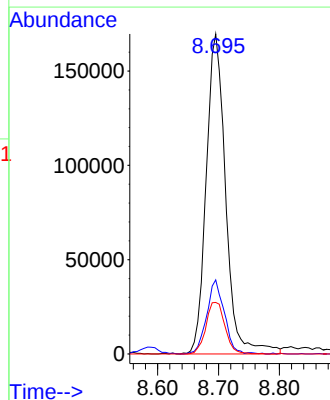
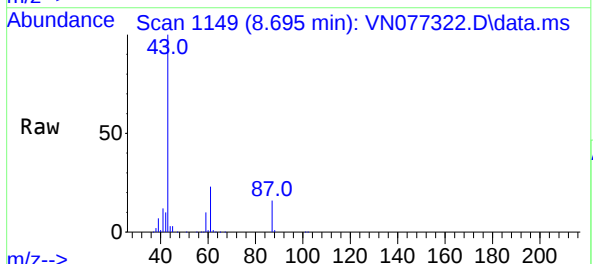
Instrument :
MSVOA_N
ClientSampleId :
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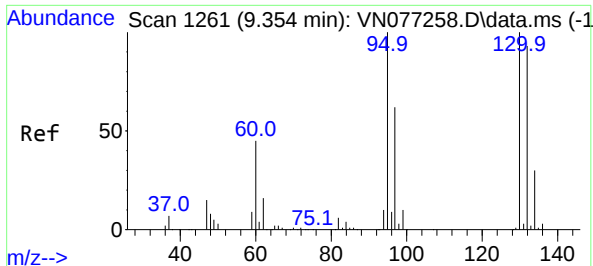
Tgt Ion:117 Resp: 61691
Ion Ratio Lower Upper
117 100
119 5.5 78.5 117.7#
121 0.0 26.6 40.0#



#43
Isopropyl Acetate
Concen: 22.207 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 377964
Ion Ratio Lower Upper
43 100
61 21.0 22.7 34.1#
87 15.8 13.6 20.4

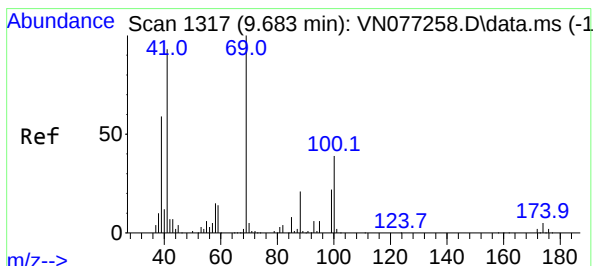
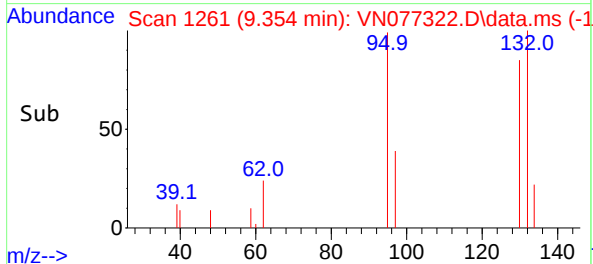
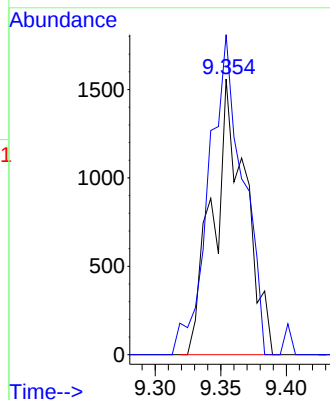
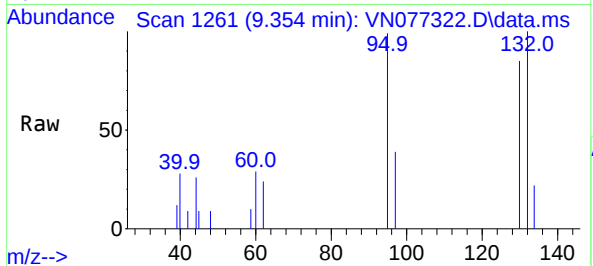




#44
Trichloroethene
Concen: 0.351 ug/l
RT: 9.354 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

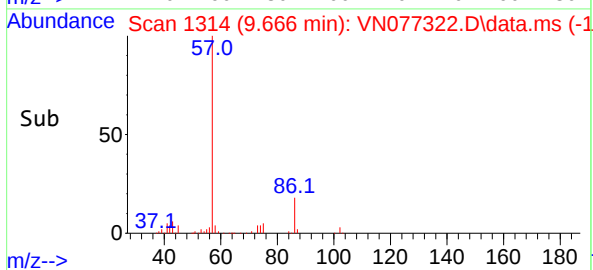
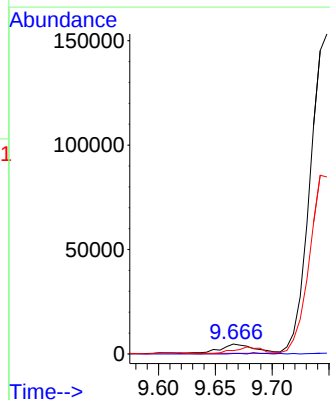
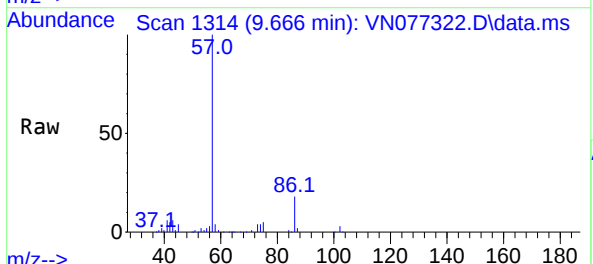
Instrument :
MSVOA_N
ClientSampleId :
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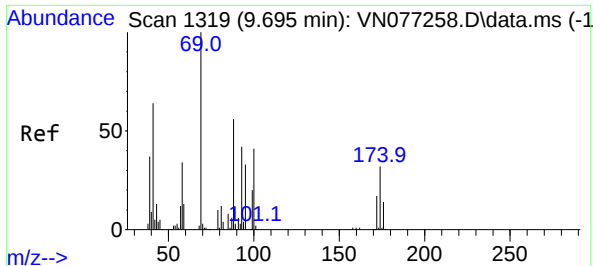
Tgt Ion:130 Resp: 2701
Ion Ratio Lower Upper
130 100
95 116.1 0.0 200.2



#48
Methyl methacrylate
Concen: 1.278 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 41 Resp: 9277
Ion Ratio Lower Upper
41 100
69 6.1 85.0 127.6#
39 68.0 53.5 80.3

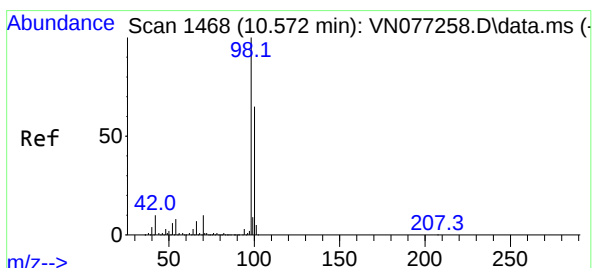
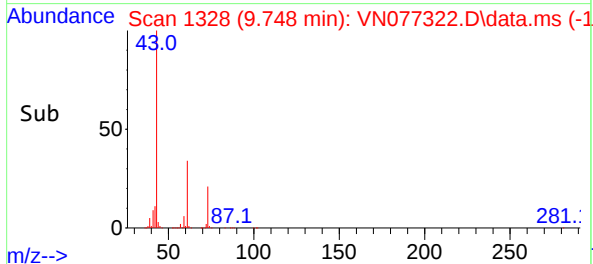
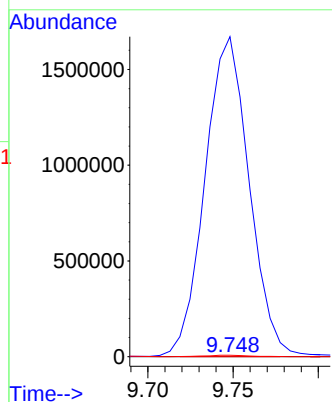
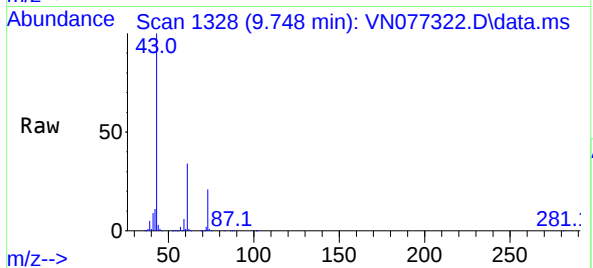




#49
1,4-Dioxane
Concen: 3.448 ug/l
RT: 9.748 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

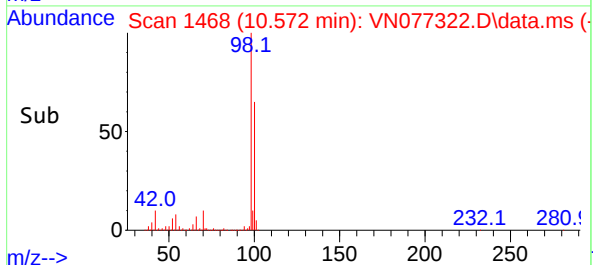
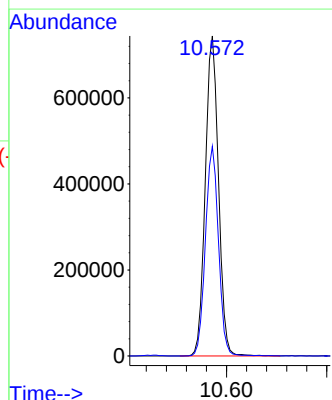
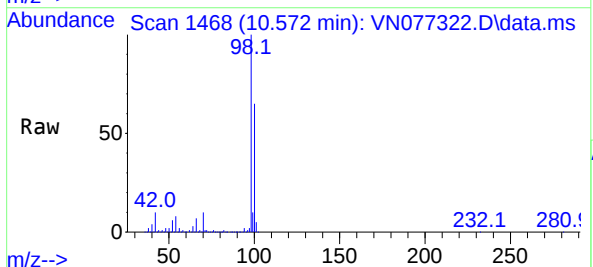
Instrument :
MSVOA_N
ClientSampleId :
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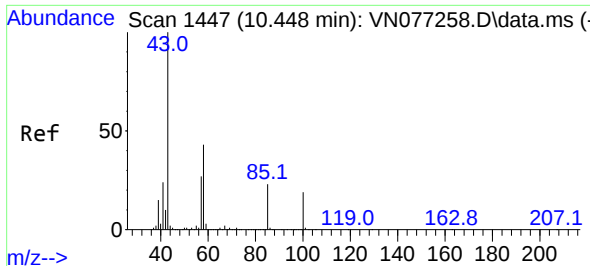
Tgt Ion: 88 Resp: 607
Ion Ratio Lower Upper
88 100
43 498452.1 17.0 25.6#
58 2298.0 49.8 74.6#



#50
Toluene-d8
Concen: 48.430 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 98 Resp: 1358989
Ion Ratio Lower Upper
98 100
100 64.8 51.3 76.9

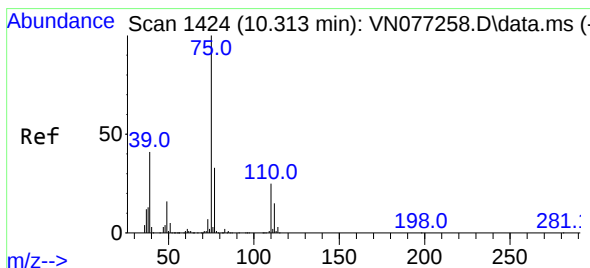
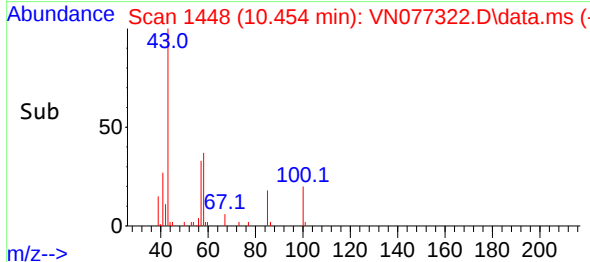
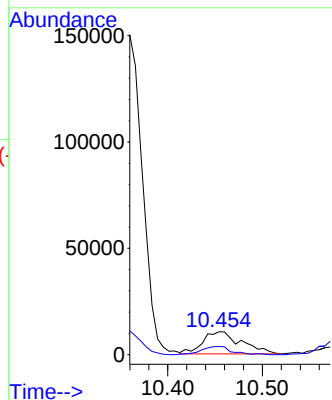
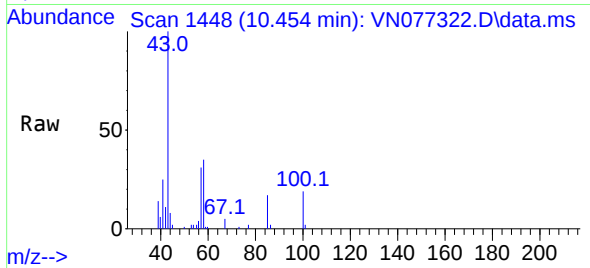




#51
4-Methyl-2-Pentanone
Concen: 3.012 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

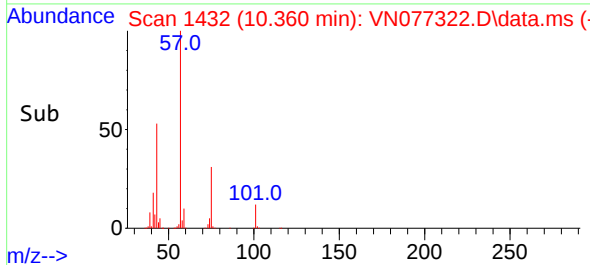
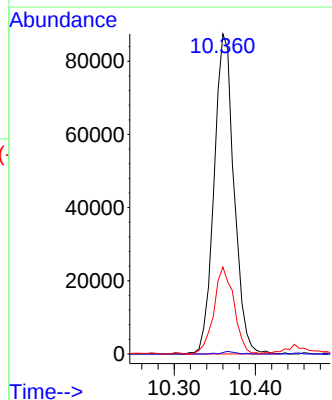
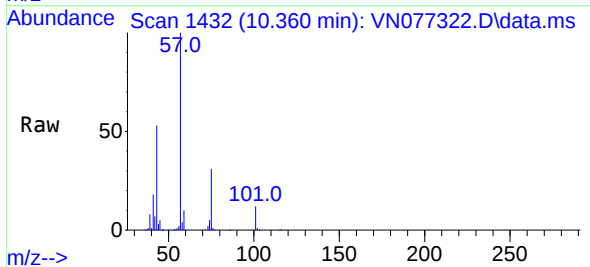
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

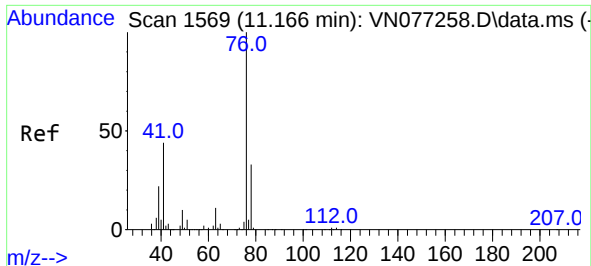
Tgt Ion: 43 Resp: 29632
Ion Ratio Lower Upper
43 100
58 28.7 34.6 52.0#



#54
cis-1,3-Dichloropropene
Concen: 11.218 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 75 Resp: 149227
Ion Ratio Lower Upper
75 100
77 0.5 26.7 40.1#
39 26.8 32.8 49.2#

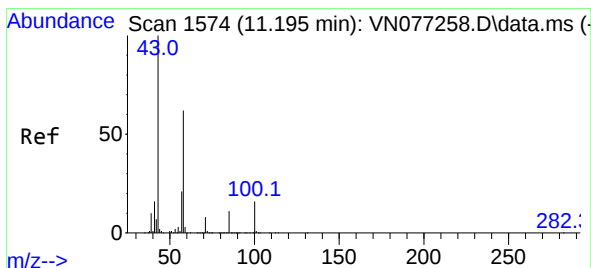
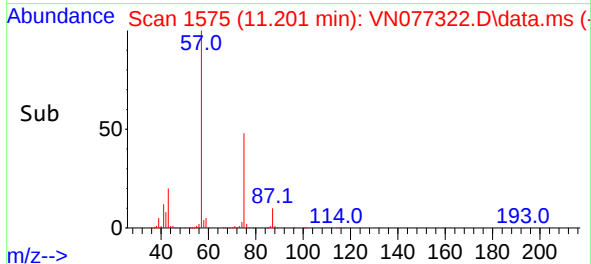
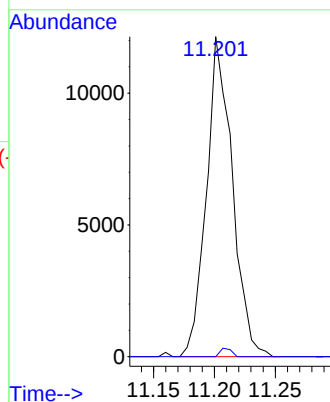
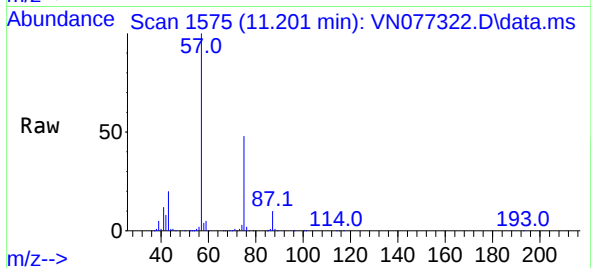




#57
1,3-Dichloropropane
Concen: 1.313 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

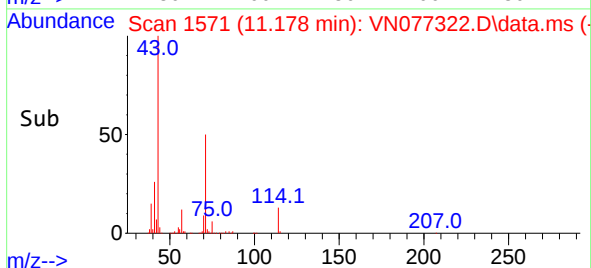
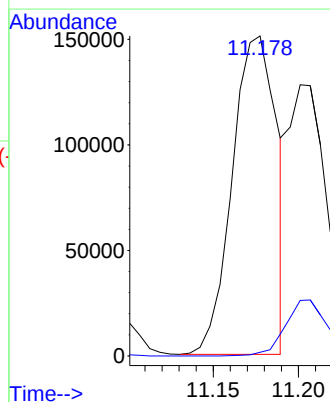
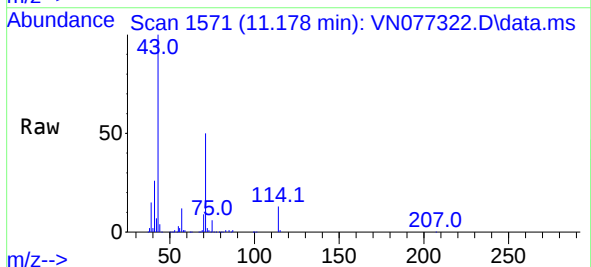
Instrument :
MSVOA_N
ClientSampleId :
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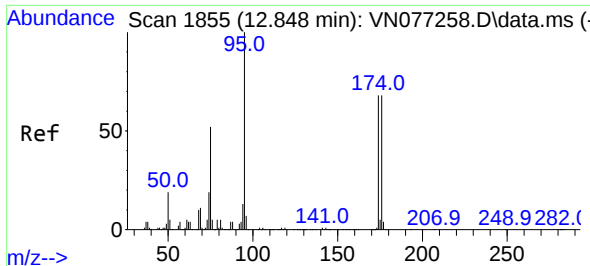
Tgt Ion: 76 Resp: 17926
Ion Ratio Lower Upper
76 100
78 1.2 26.2 39.4#



#59
2-Hexanone
Concen: 37.345 ug/l
RT: 11.178 min Scan# 1571
Delta R.T. -0.018 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 273711
Ion Ratio Lower Upper
43 100
58 0.0 30.9 92.5#

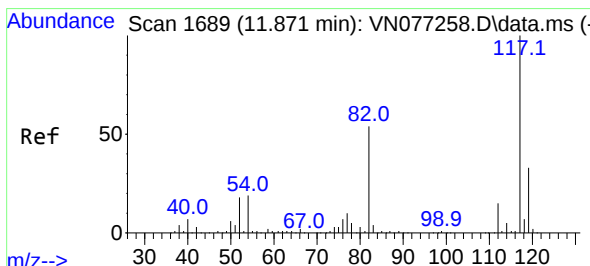
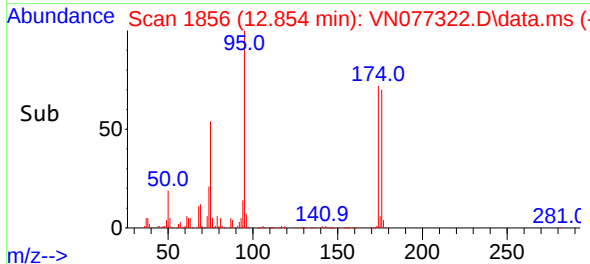
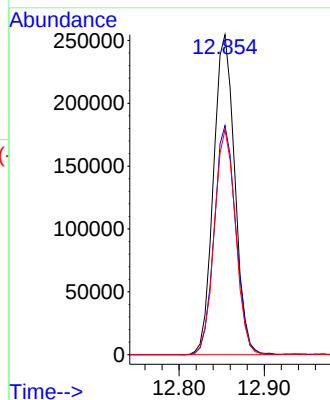
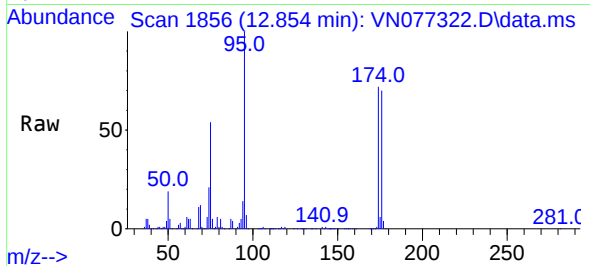




#62
4-Bromofluorobenzene
Concen: 47.351 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

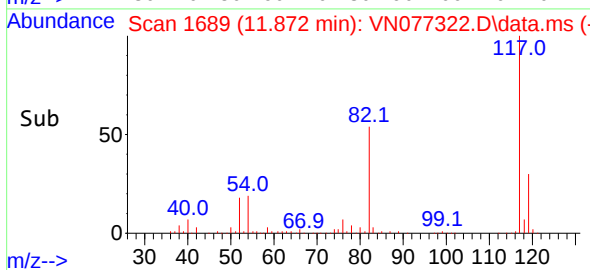
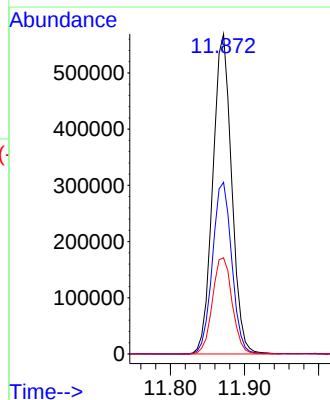
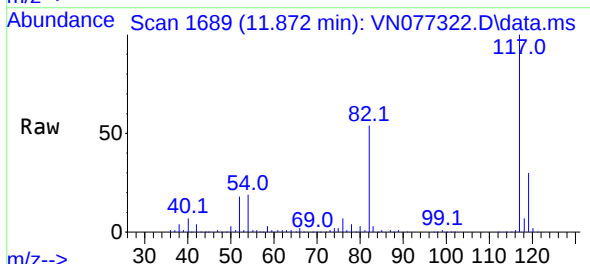
Instrument :
MSVOA_N
ClientSampleId :
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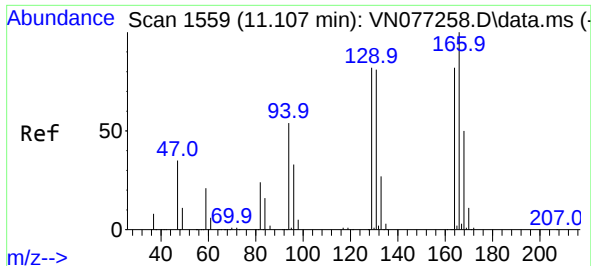
Tgt Ion: 95 Resp: 441913
Ion Ratio Lower Upper
95 100
174 72.3 0.0 146.8
176 70.3 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.001 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

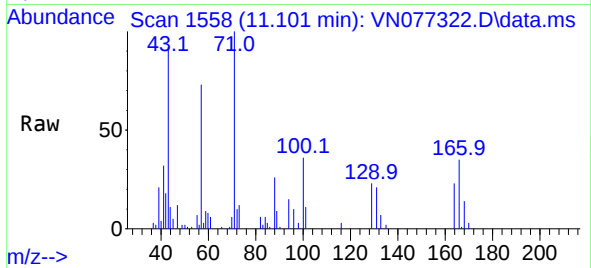
Tgt Ion: 117 Resp: 1005426
Ion Ratio Lower Upper
117 100
82 53.7 42.9 64.3
119 30.1 26.2 39.4



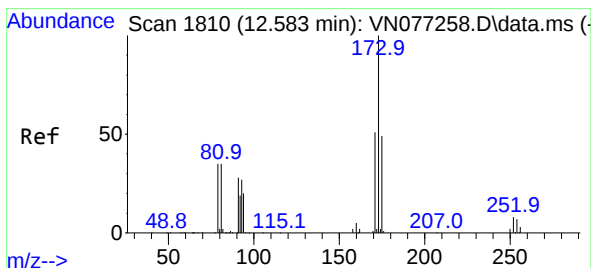
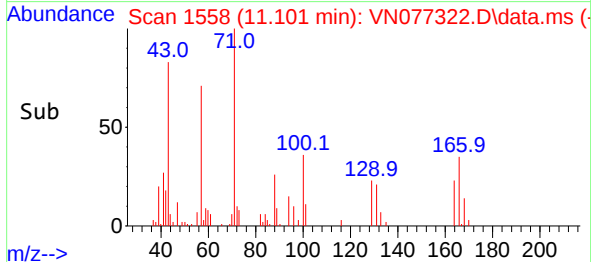
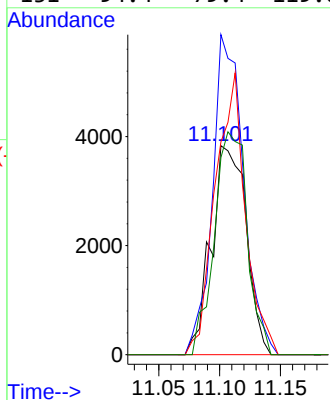


#64
Tetrachloroethene
Concen: 1.231 ug/l
RT: 11.101 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

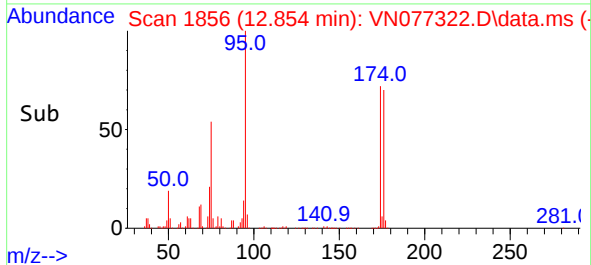
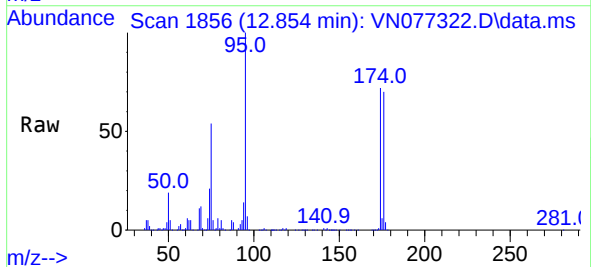
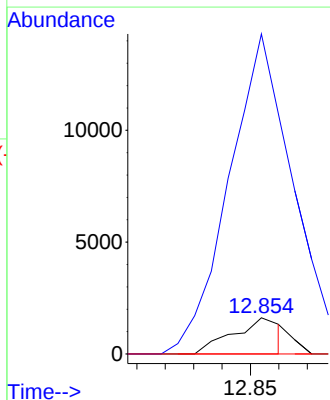


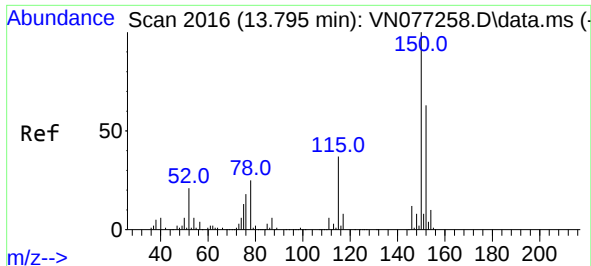
Tgt Ion:164 Resp: 7644
Ion Ratio Lower Upper
164 100
166 153.1 97.8 146.6#
129 101.8 80.1 120.1
131 94.4 79.4 119.0



#71
Bromoform
Concen: 0.320 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion:173 Resp: 1884
Ion Ratio Lower Upper
173 100
175 931.4 24.1 72.4#
254 0.0 0.1 0.1#

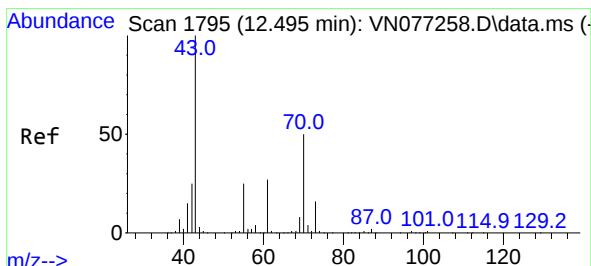
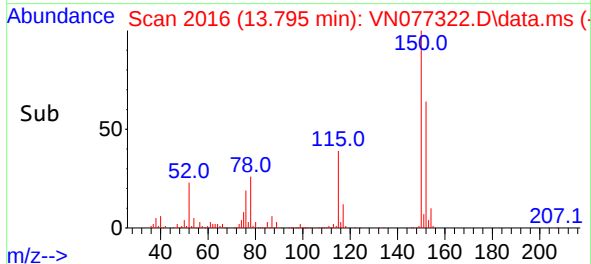
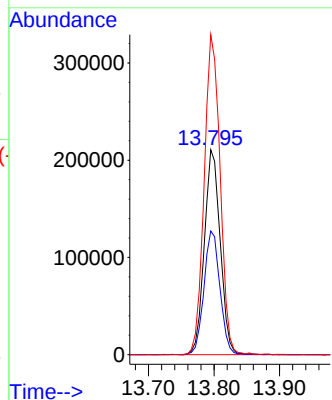
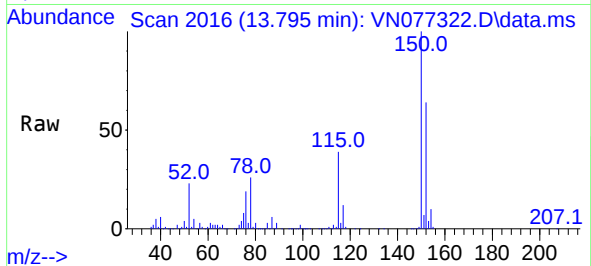




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

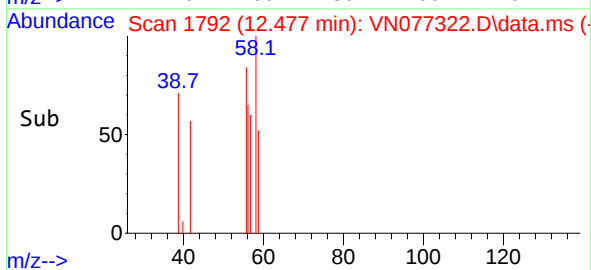
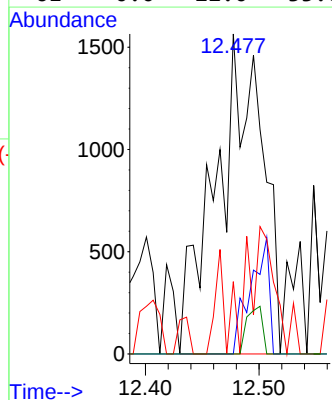
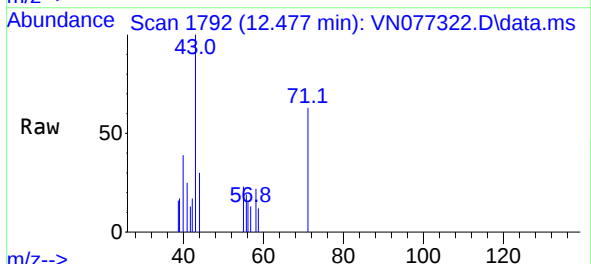
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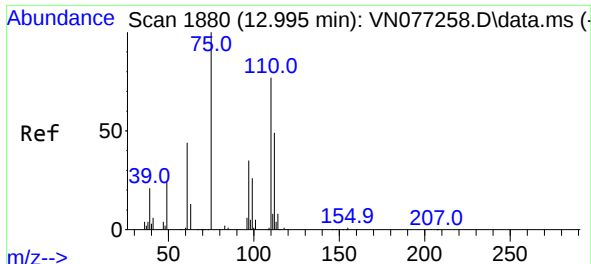
Tgt Ion:152 Resp: 355625
Ion Ratio Lower Upper
152 100
115 60.8 32.1 96.3
150 157.0 0.0 354.8



#74
N-ethyl acetate
Concen: 0.340 ug/l
RT: 12.477 min Scan# 1792
Delta R.T. -0.018 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 43 Resp: 4450
Ion Ratio Lower Upper
43 100
70 0.0 41.0 61.6#
55 5.5 19.3 28.9#
61 0.0 22.0 33.0#

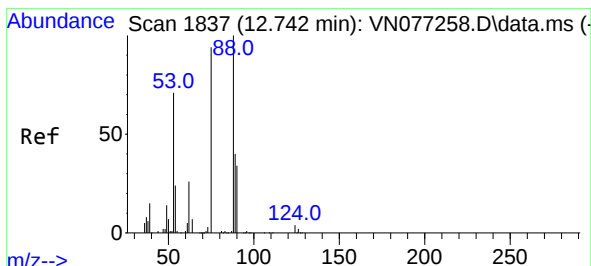
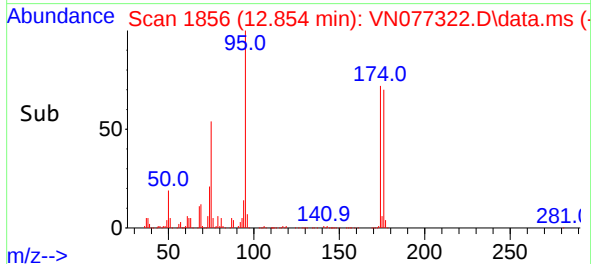
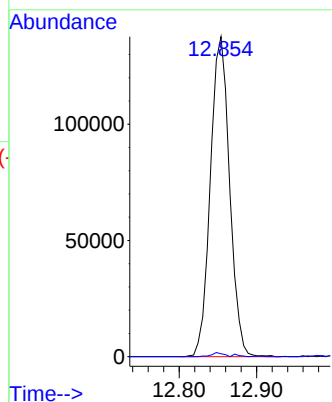
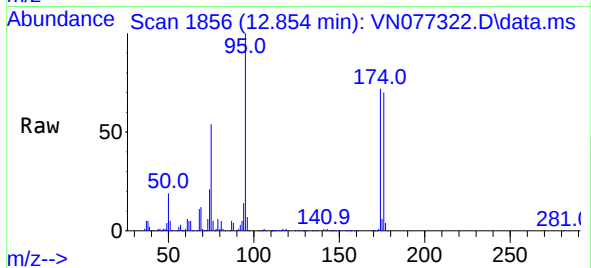




#76
1,2,3-Trichloropropane
Concen: 28.011 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

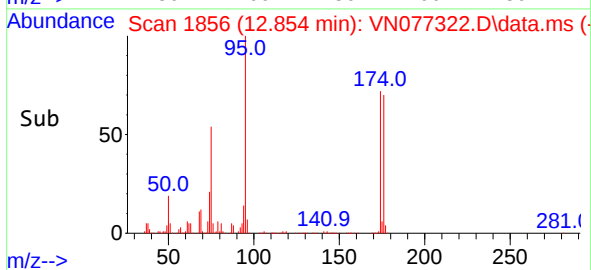
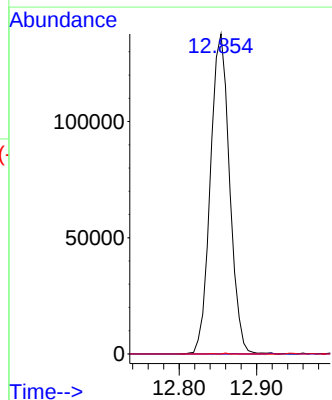
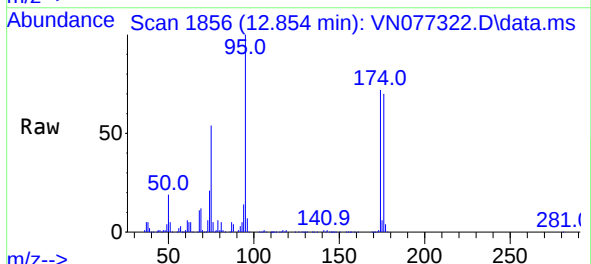
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

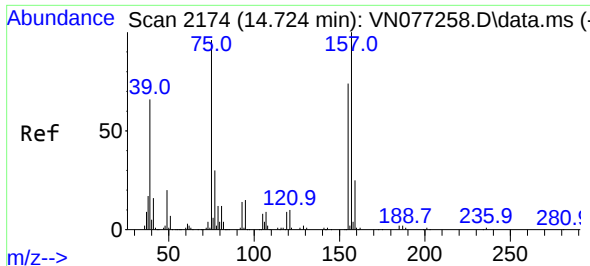
Tgt Ion: 75 Resp: 237208
Ion Ratio Lower Upper
75 100
77 0.8 88.3 264.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.034 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 75 Resp: 237208
Ion Ratio Lower Upper
75 100
53 0.0 72.8 109.2#
89 0.1 37.4 56.2#

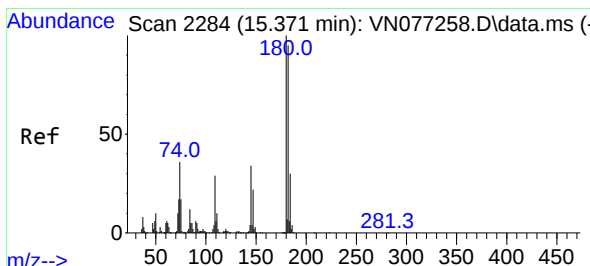
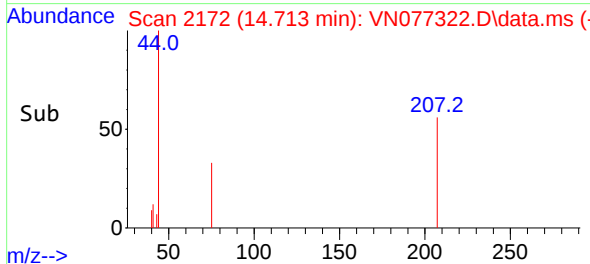
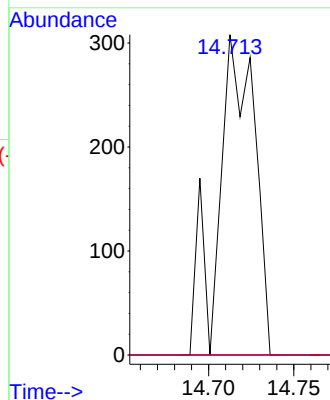
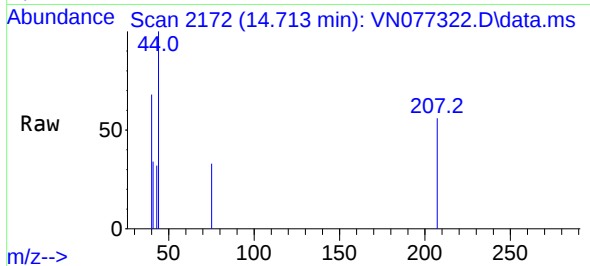




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.223 ug/l
RT: 14.713 min Scan# 2172
Delta R.T. -0.011 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

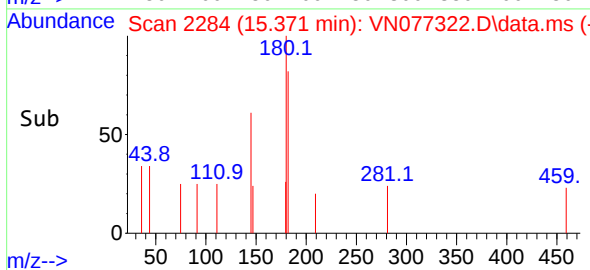
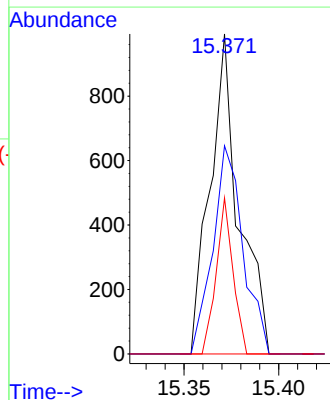
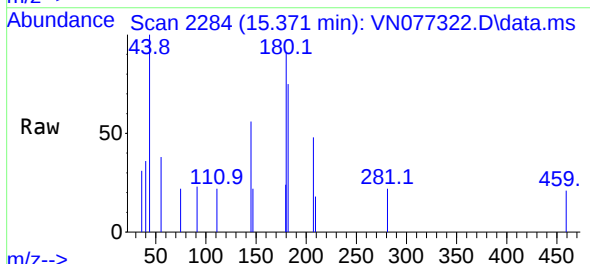
Instrument :
MSVOA_N
ClientSampleId :
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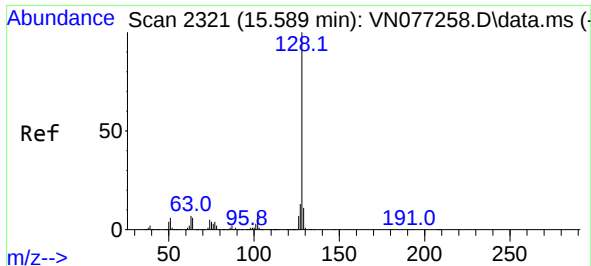
Tgt Ion: 75 Resp: 459
Ion Ratio Lower Upper
75 100
155 0.0 41.0 123.2#
157 0.0 54.0 162.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.224 ug/l
RT: 15.371 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN077322.D
Acq: 13 Apr 2023 12:34

Tgt Ion: 180 Resp: 1052
Ion Ratio Lower Upper
180 100
182 68.2 46.7 140.0
145 28.3 16.6 49.8





#95

Naphthalene

Concen: 0.278 ug/l

RT: 15.589 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN077322.D

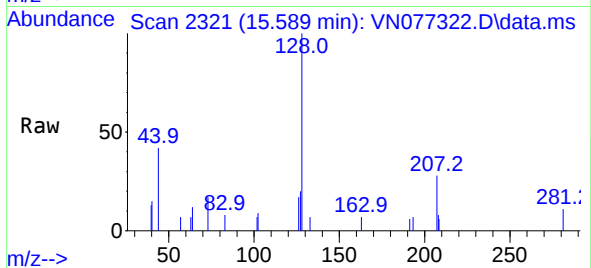
Acq: 13 Apr 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion:	128	Resp:	4908
Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.2	15.4
129	4.5	8.9	13.3#

