

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102422\
 Data File : VN074998.D
 Acq On : 24 Oct 2022 21:03
 Operator : JC\MD
 Sample : N5211-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-SOILPILE-1020

Quant Time: Oct 25 06:52:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102022W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 21 09:37:47 2022
 Response via : Initial Calibration

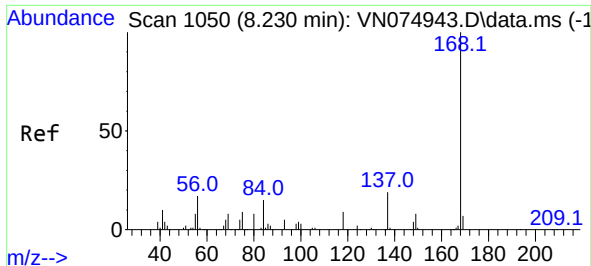
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	2578517	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	4581928	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	5225339	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	3098473	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	3101307	45.268	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.540%		
35) Dibromofluoromethane	8.177	113	2317070	42.486	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	84.980%		
50) Toluene-d8	10.571	98	10830757	51.761	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.520%		
62) 4-Bromofluorobenzene	12.853	95	3610996	48.924	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.840%		
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	2819	Below Cal	#	39
4) Vinyl Chloride	2.530	62	892	Below Cal	#	48
5) Bromomethane	2.936	94	2269	Below Cal	#	62
6) Chloroethane	3.018	64	2623	Below Cal	#	45
7) Trichlorofluoromethane	3.307	101	151	Below Cal	#	18
11) Tert butyl alcohol	5.512	59	3990	0.275 ug/l	#	72
12) 1,1-Dichloroethene	4.359	96	135	Below Cal	#	1
13) Acrolein	4.212	56	621	Below Cal		87
16) Acetone	4.454	43	110360	Below Cal		95
17) Carbon Disulfide	4.724	76	399	Below Cal	#	74
18) Methyl Acetate	5.048	43	20999	0.241 ug/l	#	78
20) Methylene Chloride	5.283	84	44619	Below Cal	#	84
21) trans-1,2-Dichloroethene	5.589	96	56	Below Cal	#	1
25) 2-Butanone	7.500	43	12249	0.293 ug/l	#	62
31) Cyclohexane	8.236	56	68797	0.983 ug/l	#	56
36) 1,1-Dichloropropene	8.230	75	234303	3.411 ug/l	#	49
37) Ethyl Acetate	7.577	43	88733	1.097 ug/l	#	93
38) Carbon Tetrachloride	8.230	117	290848	3.890 ug/l	#	17
43) Isopropyl Acetate	8.695	43	801379	6.389 ug/l	#	74
48) Methyl methacrylate	9.665	41	13791	0.251 ug/l	#	39
51) 4-Methyl-2-Pentanone	10.447	43	32667	0.393 ug/l	#	75
54) cis-1,3-Dichloropropene	10.359	75	175301	1.993 ug/l	#	65
58) 2-Chloroethyl Vinyl ether	10.165	63	380	3.618 ug/l	#	87
59) 2-Hexanone	11.171	43	605945	9.616 ug/l	#	21
71) Bromoform	12.853	173	27882	0.620 ug/l	#	1
76) 1,2,3-Trichloropropane	12.853	75	1985058	23.624 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	1985058	75.744 ug/l	#	10

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

Quant Time: Oct 25 06:52:46 2022
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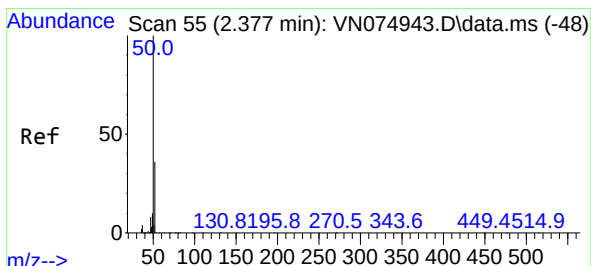
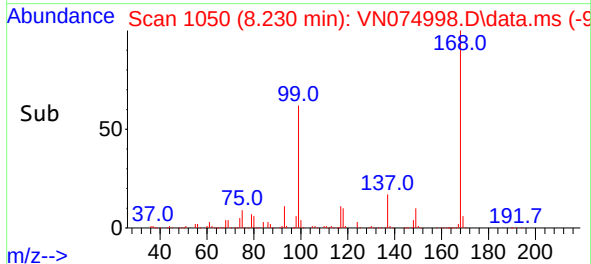
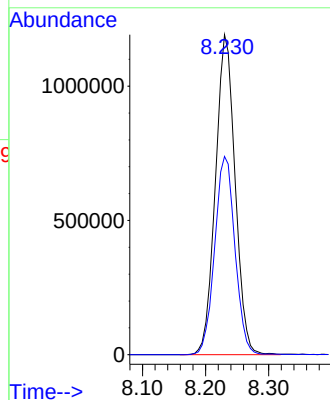
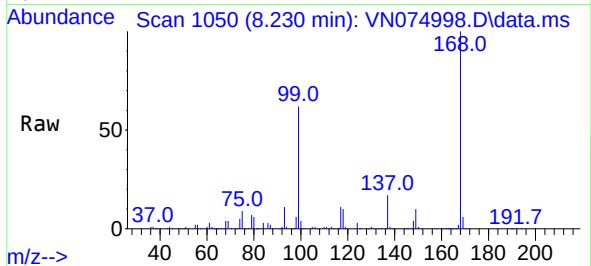




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

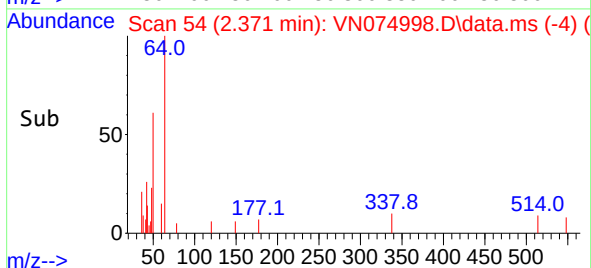
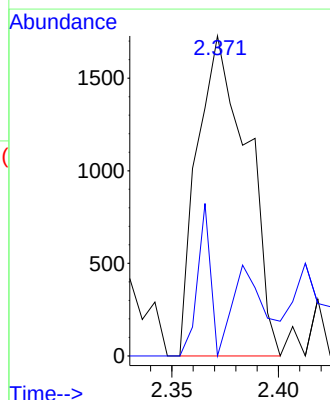
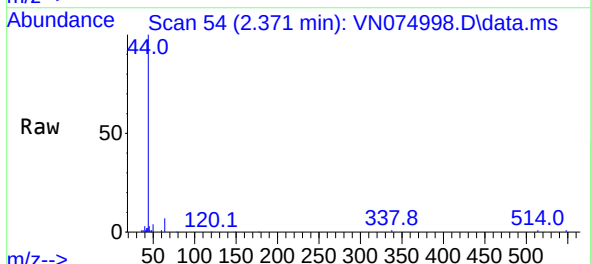
Instrument :
MSVOA_N
ClientSampleId :
SB-SOILPILE-1020

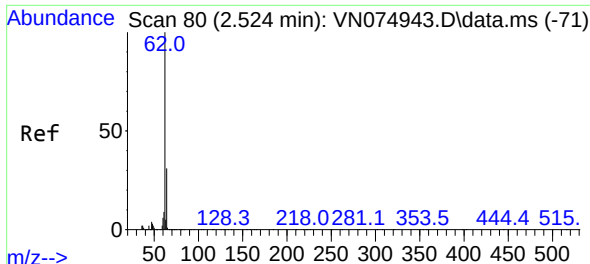
Tgt Ion:168 Resp: 2578517
Ion Ratio Lower Upper
168 100
99 62.0 52.2 78.4



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 54
Delta R.T. -0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 50 Resp: 2819
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#

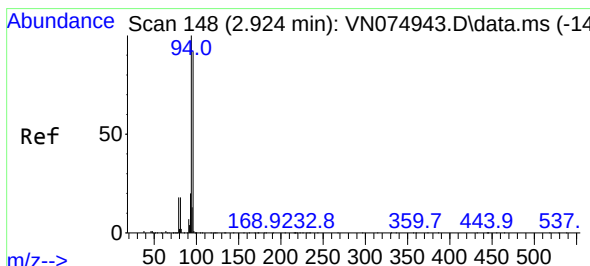
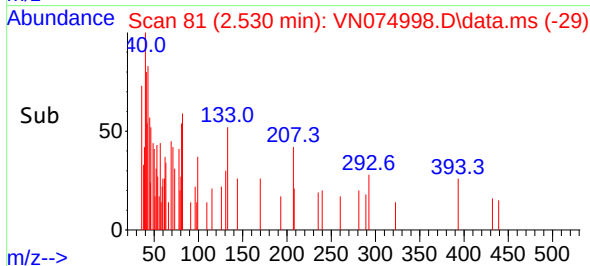
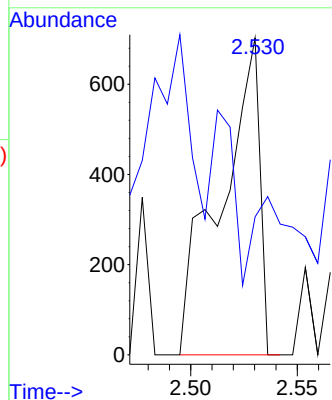
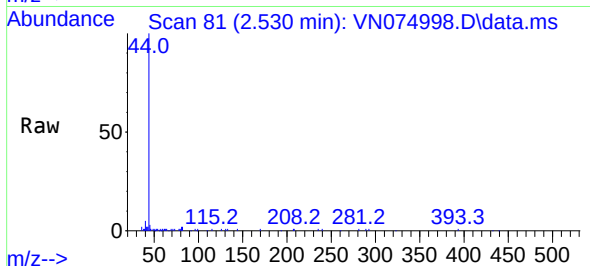




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.530 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

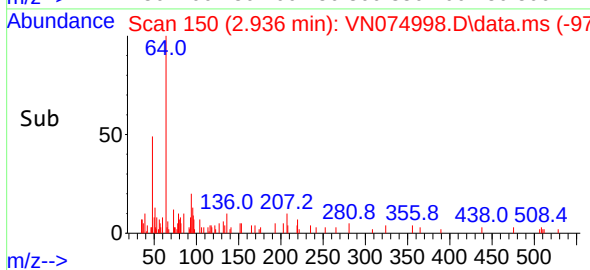
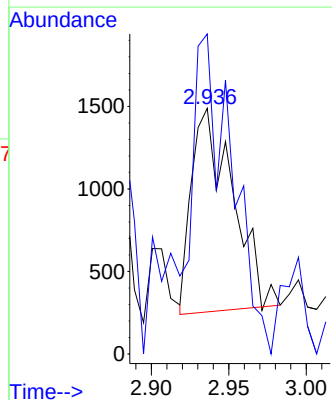
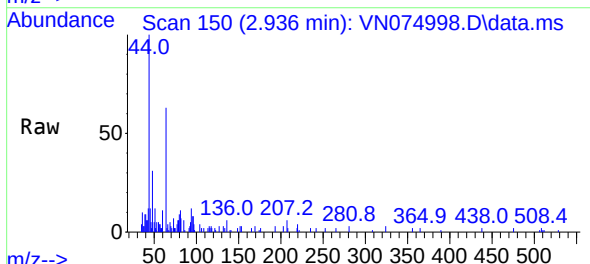
Instrument :
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 ClientSampleId :
 SB-SOILPILE-1020

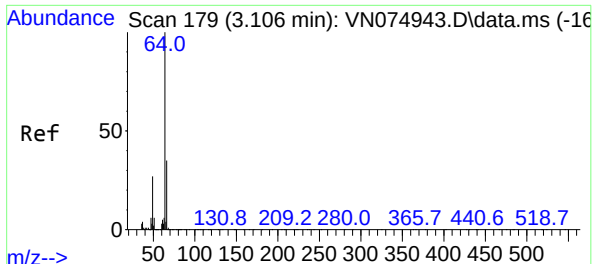
Tgt Ion: 62 Resp: 892
 Ion Ratio Lower Upper
 62 100
 64 2.3 24.5 36.7#



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.936 min Scan# 150
 Delta R.T. 0.012 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

Tgt Ion: 94 Resp: 2269
 Ion Ratio Lower Upper
 94 100
 96 127.9 73.5 110.3#

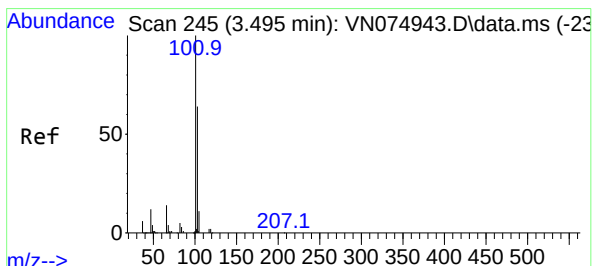
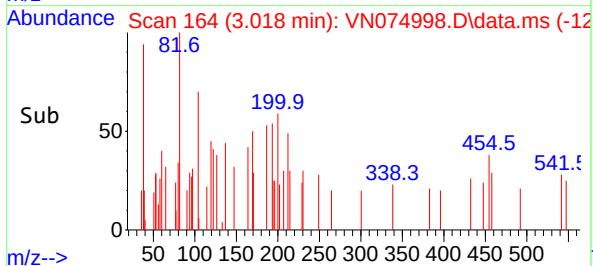
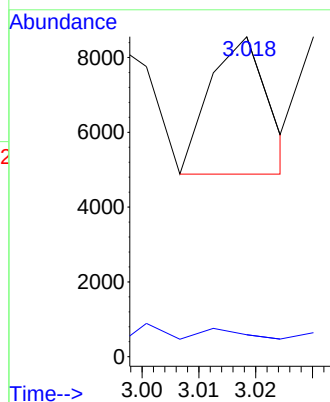
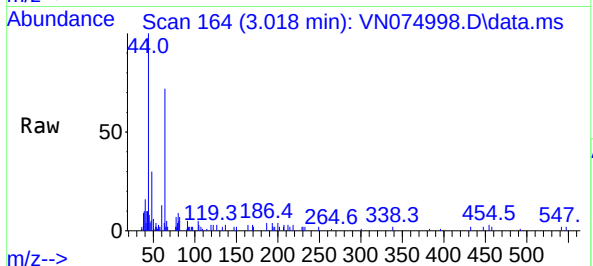




#6
Chloroethane
Concen: Below Cal
RT: 3.018 min Scan# 11
Delta R.T. -0.088 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

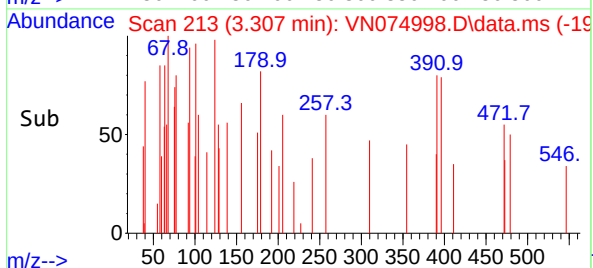
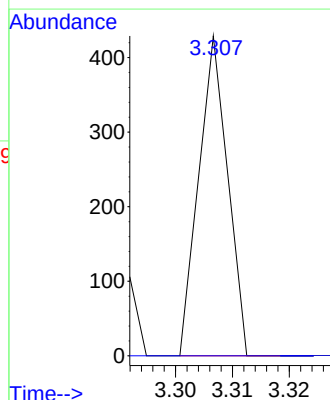
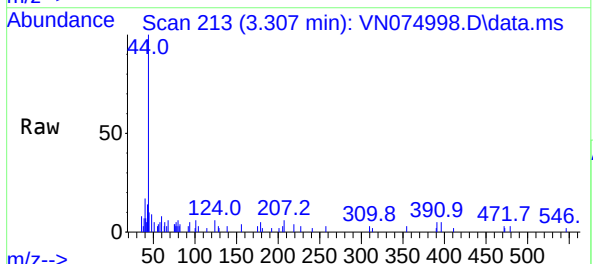
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ClientSampleId :
SB-SOILPILE-1020

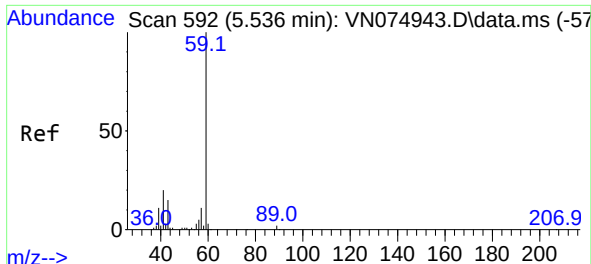
Tgt Ion: 64 Resp: 2623
Ion Ratio Lower Upper
64 100
66 3.2 27.9 41.9#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.307 min Scan# 213
Delta R.T. -0.188 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 101 Resp: 151
Ion Ratio Lower Upper
101 100
103 0.0 51.5 77.3#





#11

Tert butyl alcohol

Concen: 0.275 ug/l

RT: 5.512 min Scan# 51

Delta R.T. -0.023 min

Lab File: VN074998.D

Acq: 24 Oct 2022 21:03

Instrument :

MSVOA_N

ClientSampleId :

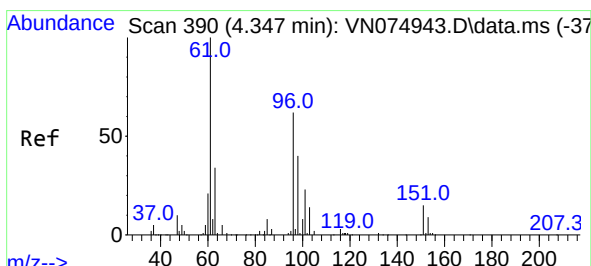
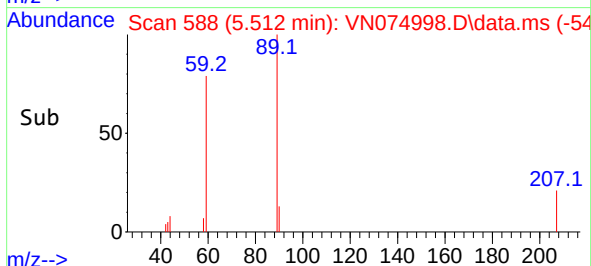
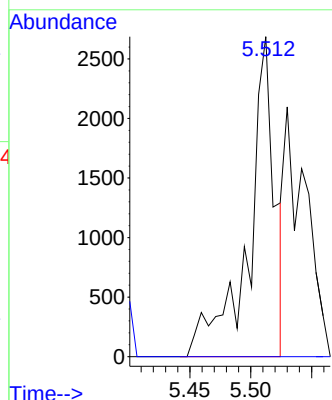
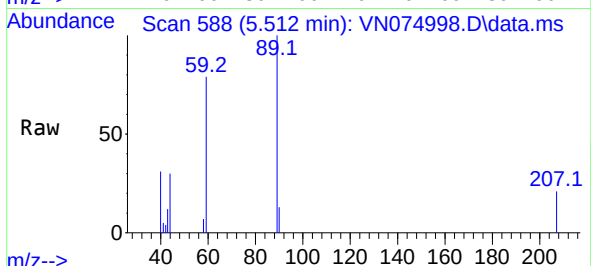
SB-SOILPILE-1020

Tgt Ion: 59 Resp: 3990

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#12

1,1-Dichloroethene

Concen: Below Cal

RT: 4.359 min Scan# 392

Delta R.T. 0.012 min

Lab File: VN074998.D

Acq: 24 Oct 2022 21:03

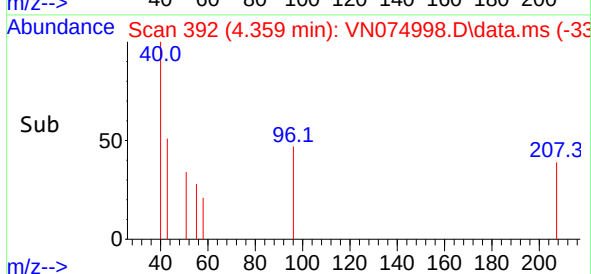
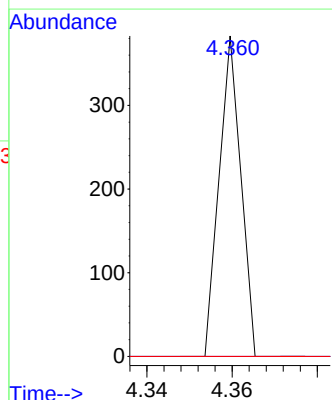
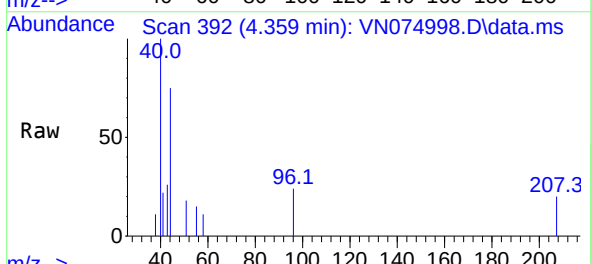
Tgt Ion: 96 Resp: 135

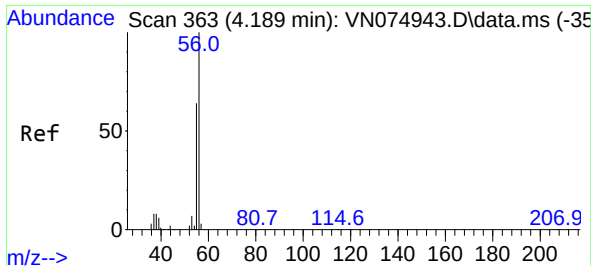
Ion Ratio Lower Upper

96 100

61 0.0 128.9 193.3#

98 0.0 51.8 77.8#

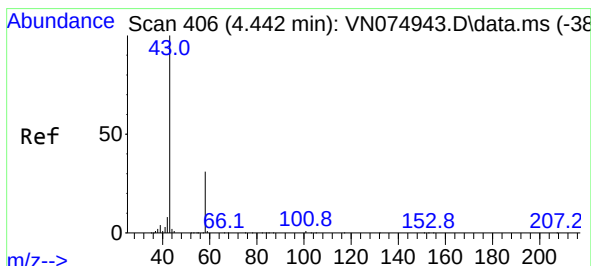
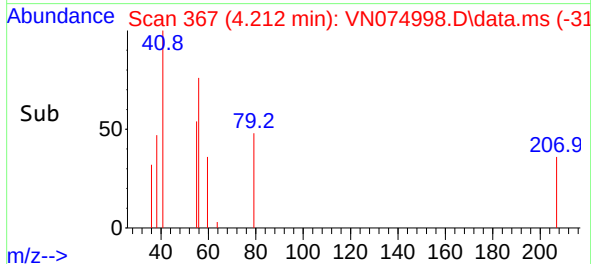
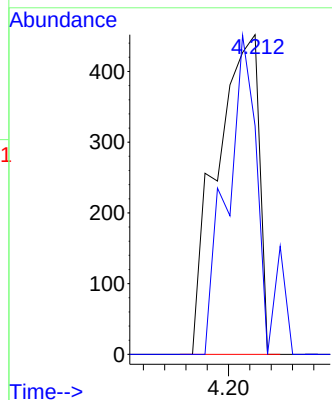
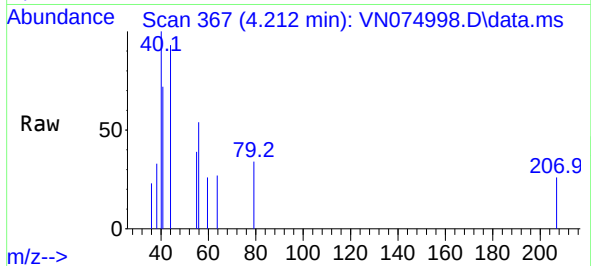




#13
Acrolein
Concen: Below Cal
RT: 4.212 min Scan# 30
Delta R.T. 0.023 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

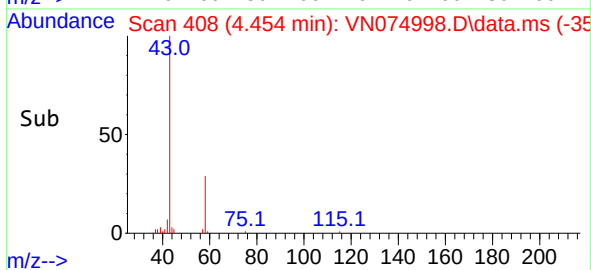
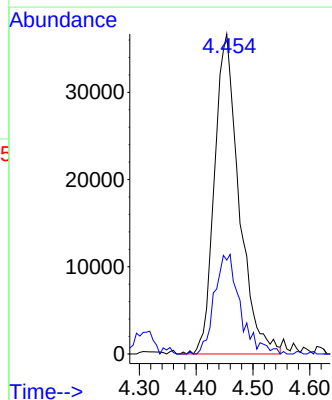
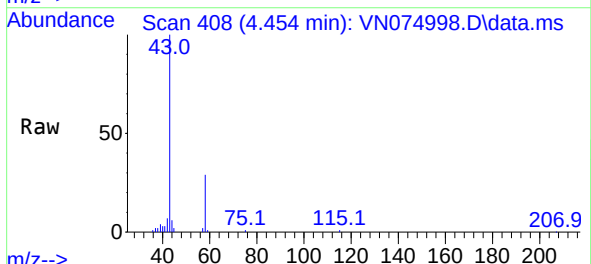
Instrument :
MSVOA_N
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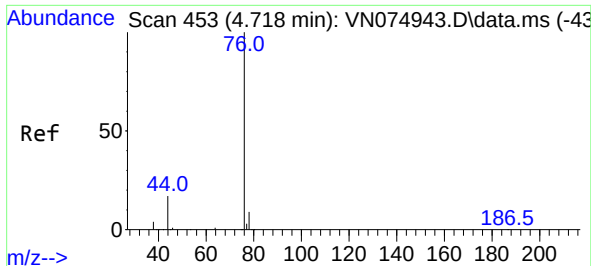
Tgt Ion: 56 Resp: 621
Ion Ratio Lower Upper
56 100
55 77.1 53.7 80.5



#16
Acetone
Concen: Below Cal
RT: 4.454 min Scan# 408
Delta R.T. 0.012 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 43 Resp: 110360
Ion Ratio Lower Upper
43 100
58 29.3 25.7 38.5

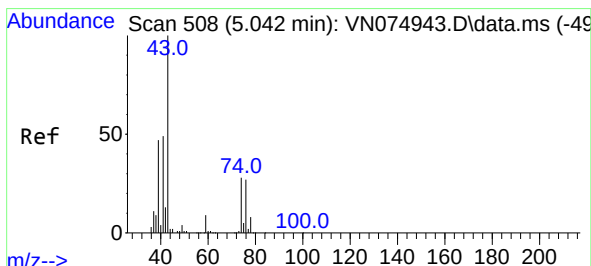
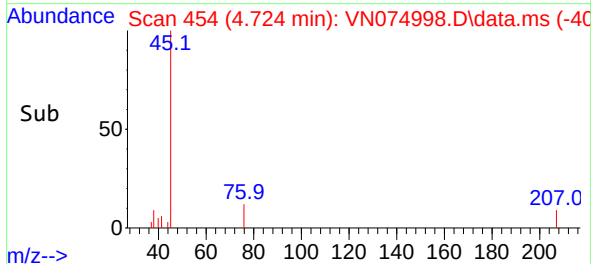
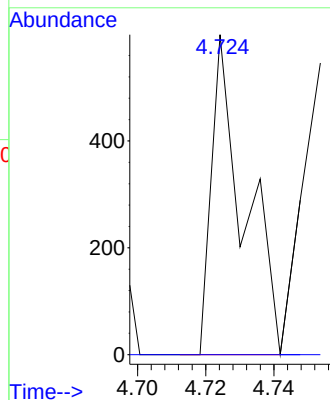
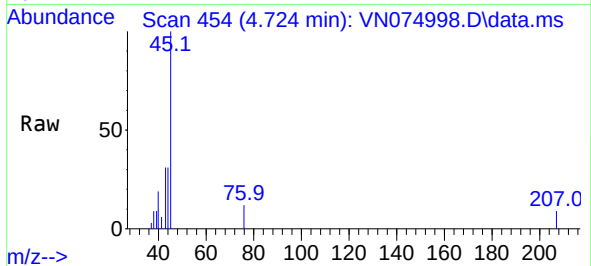




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.724 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

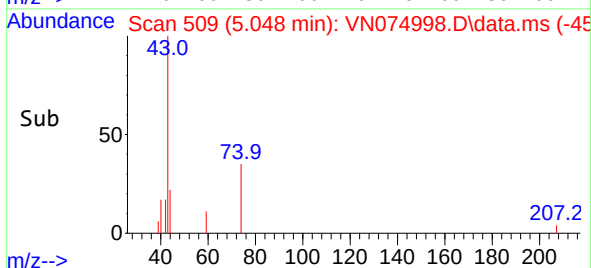
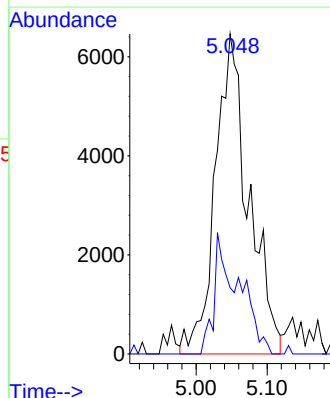
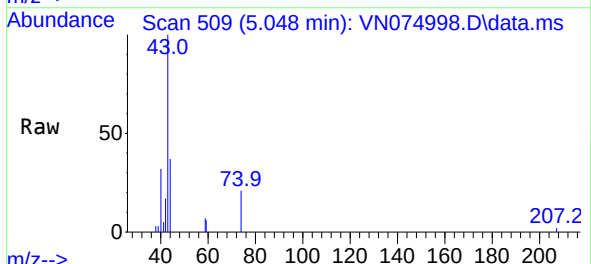
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SB-SOILPILE-1020

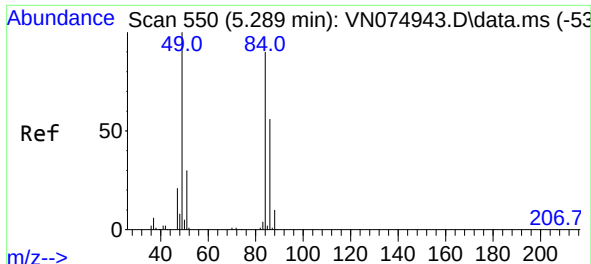
Tgt Ion: 76 Resp: 399
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 0.241 ug/l
RT: 5.048 min Scan# 509
Delta R.T. 0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 43 Resp: 20999
Ion Ratio Lower Upper
43 100
74 17.0 23.1 34.7#



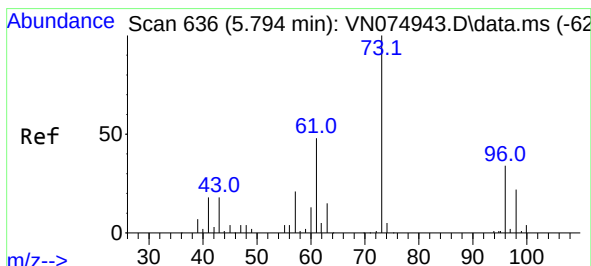
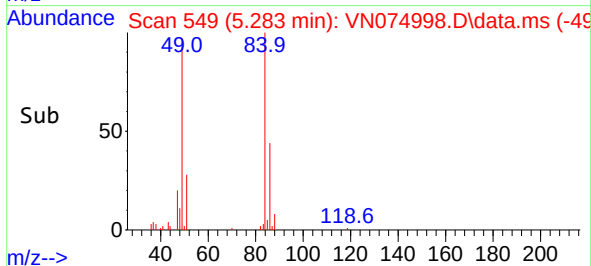
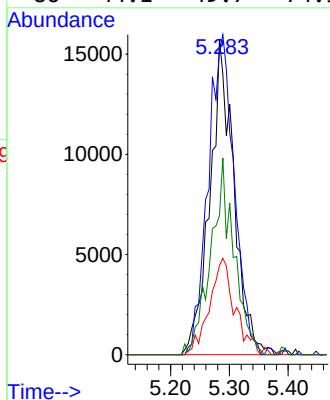
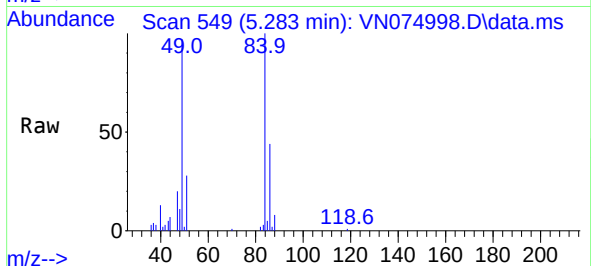


#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 54
Delta R.T. -0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Instrument :
MSVOA_N
ClientSampleId :
SB-SOILPILE-1020

Tgt Ion: 84 Resp: 44619

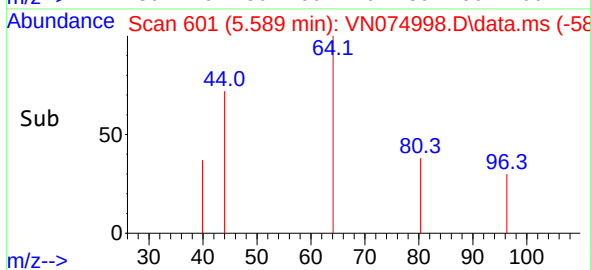
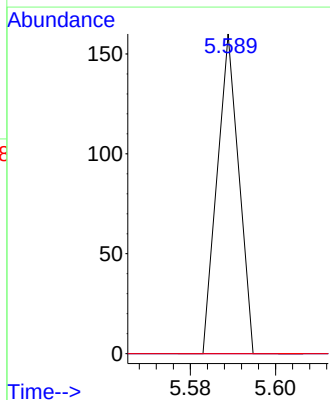
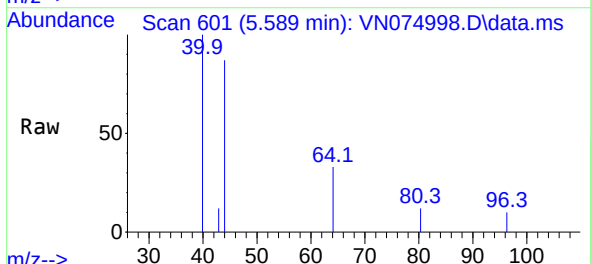
Ion	Ratio	Lower	Upper
84	100		
49	96.6	88.6	133.0
51	28.3	26.7	40.1
86	44.1	49.7	74.5#

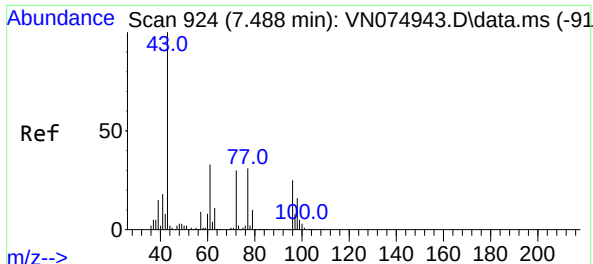


#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.589 min Scan# 601
Delta R.T. -0.205 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 96 Resp: 56

Ion	Ratio	Lower	Upper
96	100		
61	0.0	112.6	169.0#
98	0.0	52.4	78.6#





#25

2-Butanone

Concen: 0.293 ug/l

RT: 7.500 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN074998.D

Acq: 24 Oct 2022 21:03

Instrument :

MSVOA_N

ClientSampleId :

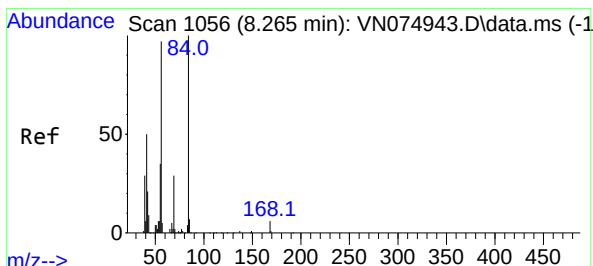
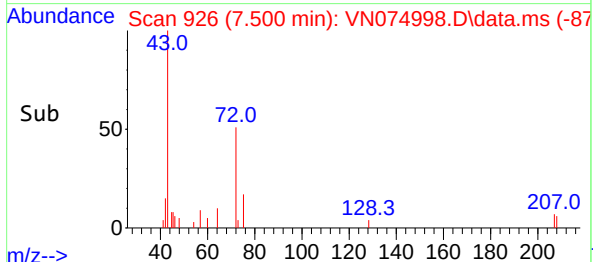
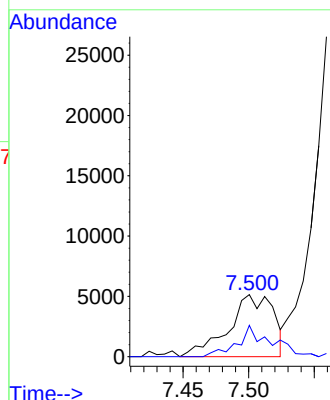
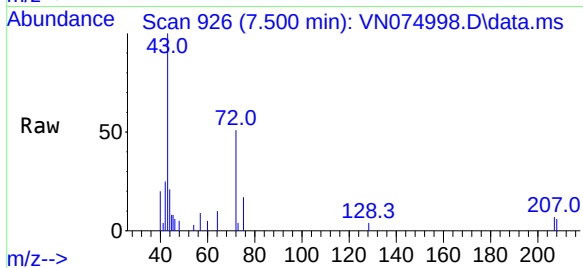
SB-SOILPILE-1020

Tgt Ion: 43 Resp: 12249

Ion Ratio Lower Upper

43 100

72 50.6 23.9 35.9#



#31

Cyclohexane

Concen: 0.983 ug/l

RT: 8.236 min Scan# 1051

Delta R.T. -0.029 min

Lab File: VN074998.D

Acq: 24 Oct 2022 21:03

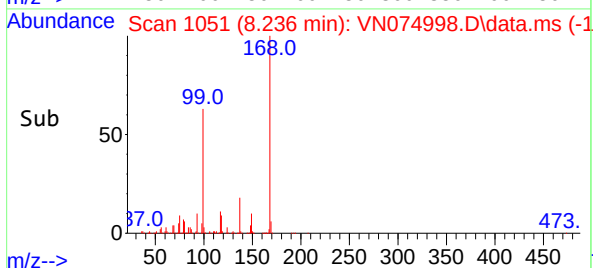
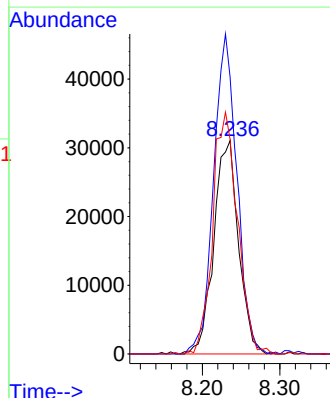
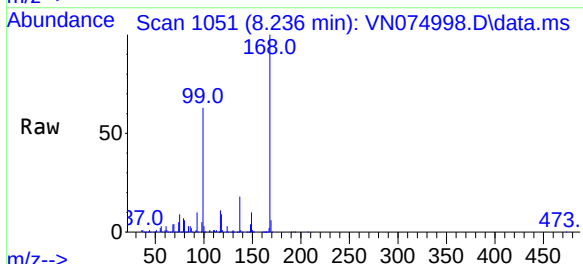
Tgt Ion: 56 Resp: 68797

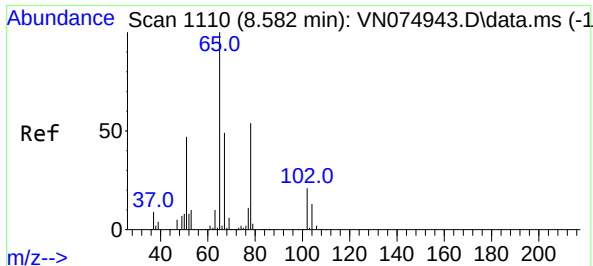
Ion Ratio Lower Upper

56 100

69 129.6 24.2 36.2#

84 100.5 82.8 124.2

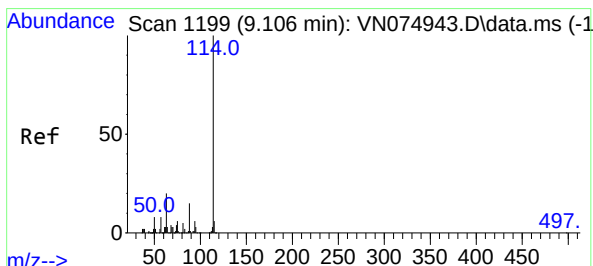
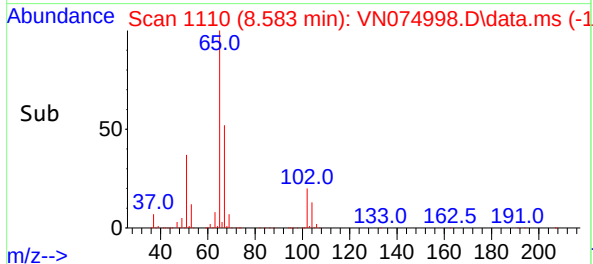
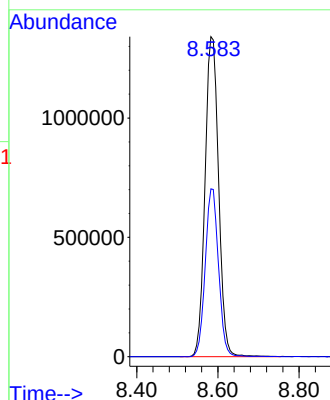
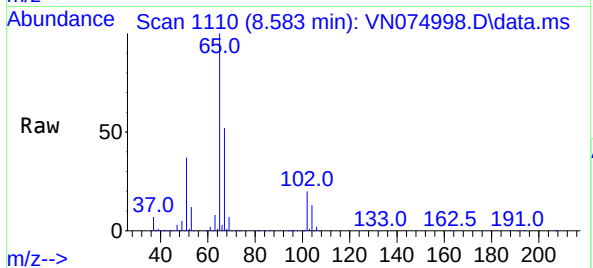




#33
1,2-Dichloroethane-d4
Concen: 45.268 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

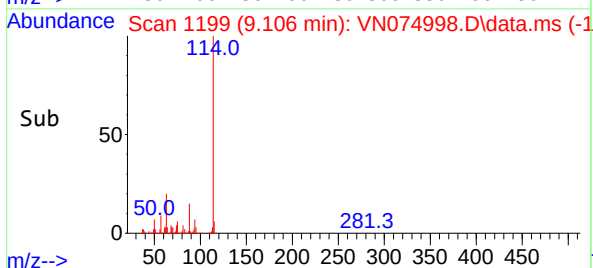
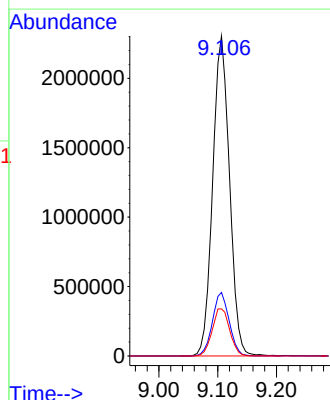
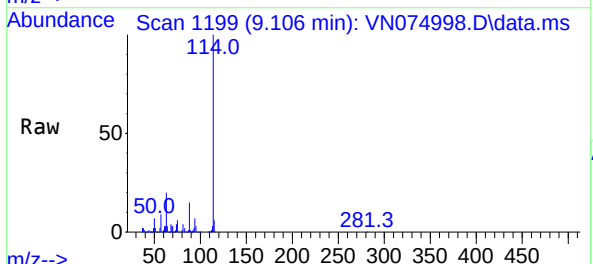
Instrument :
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ClientSampleId :
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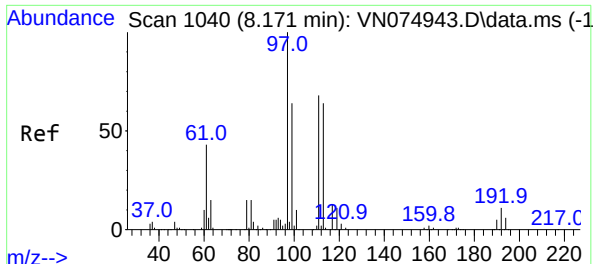
Tgt Ion: 65 Resp: 3101307
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion:114 Resp: 4581928
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.8
88 14.7 0.0 30.4

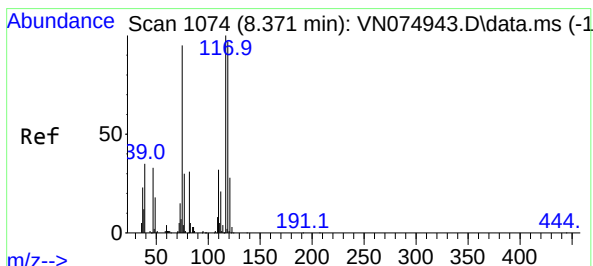
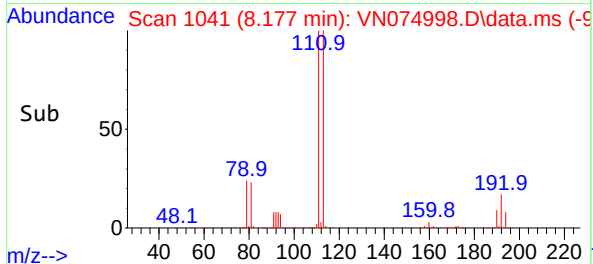
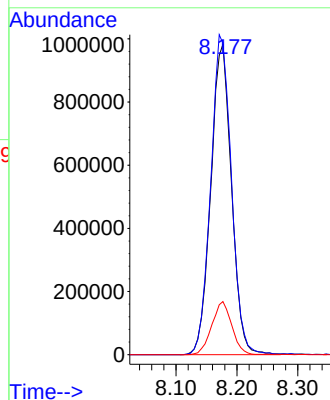
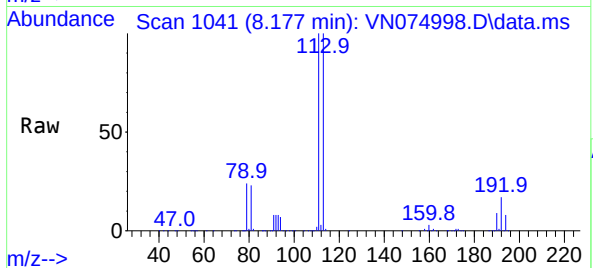




#35
Dibromofluoromethane
Concen: 42.486 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

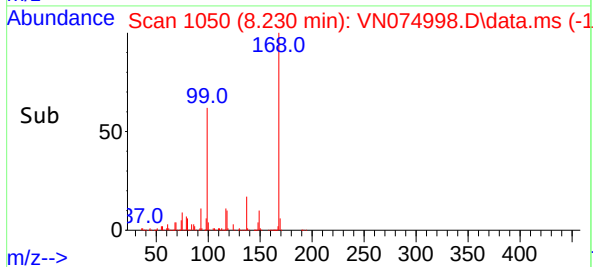
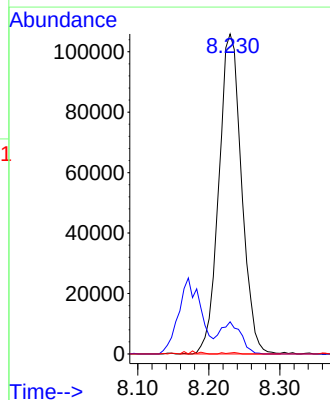
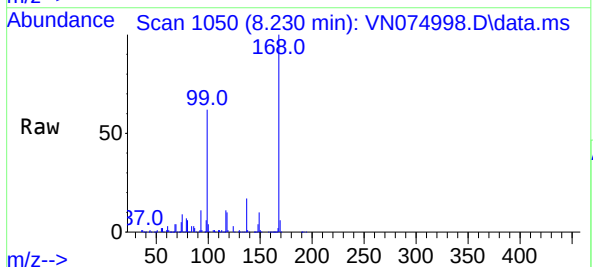
Instrument :
MSVOA_N
ClientSampleId :
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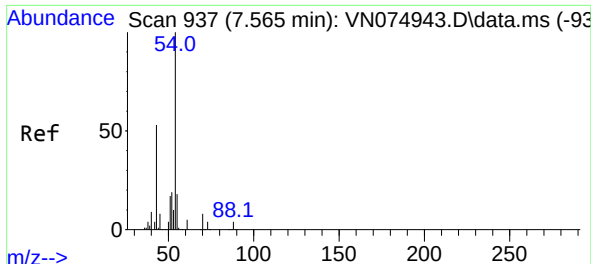
Tgt Ion:113 Resp: 2317070
Ion Ratio Lower Upper
113 100
111 103.3 83.4 125.2
192 16.6 13.3 19.9



#36
1,1-Dichloropropene
Concen: 3.411 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 75 Resp: 234303
Ion Ratio Lower Upper
75 100
110 9.2 18.1 54.4#
77 0.2 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.097 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN074998.D

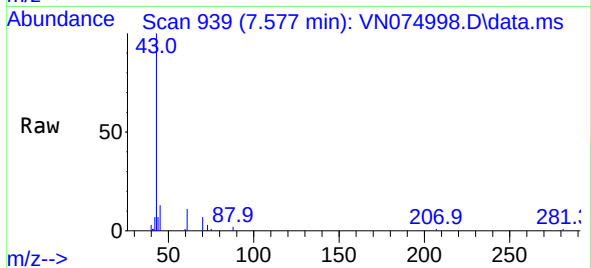
Acq: 24 Oct 2022 21:03

Instrument :

MSVOA_N

ClientSampleId :

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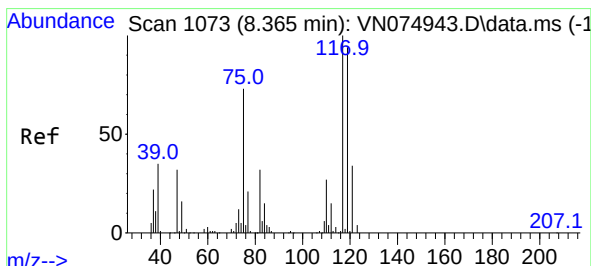
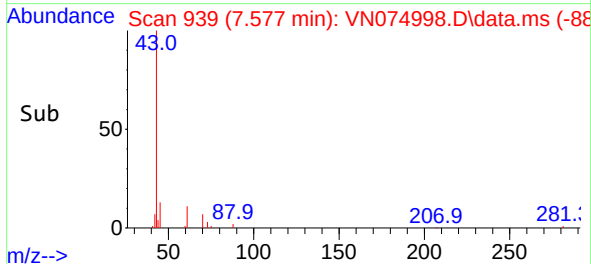
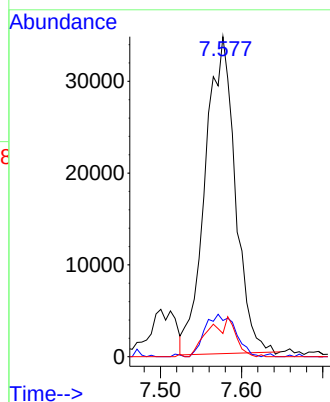
Tgt Ion: 43 Resp: 88733

Ion Ratio Lower Upper

43 100

61 13.7 12.1 18.1

70 6.7 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 3.890 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN074998.D

Acq: 24 Oct 2022 21:03

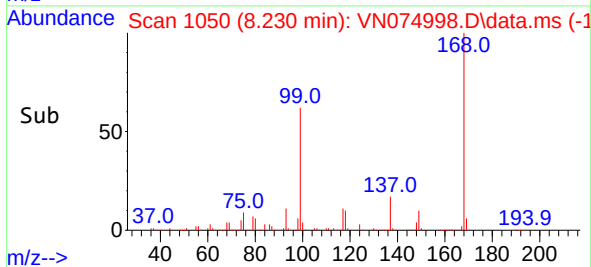
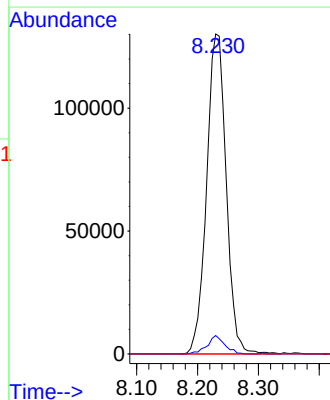
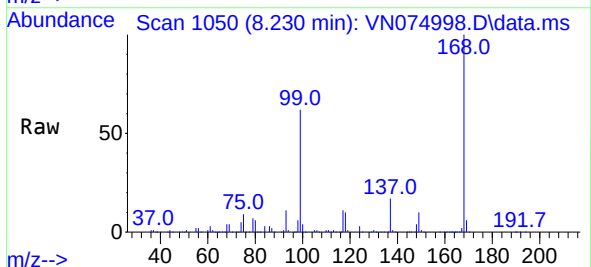
Tgt Ion: 117 Resp: 290848

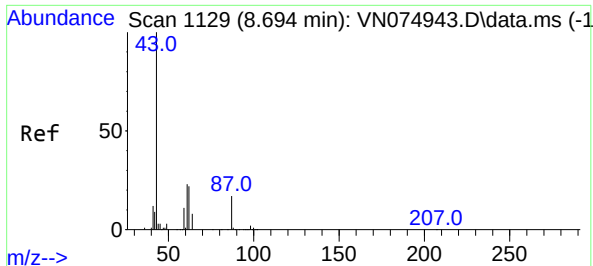
Ion Ratio Lower Upper

117 100

119 5.8 75.2 112.8#

121 0.0 27.0 40.6#

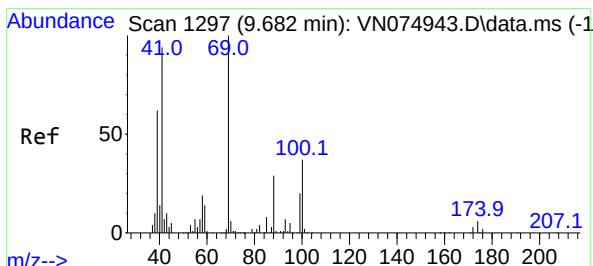
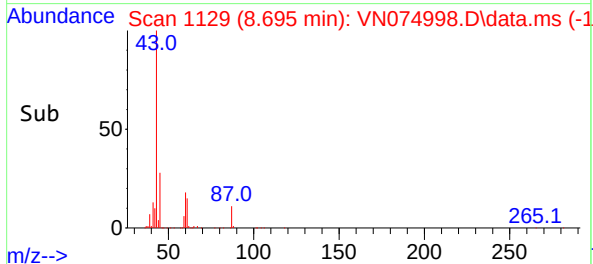
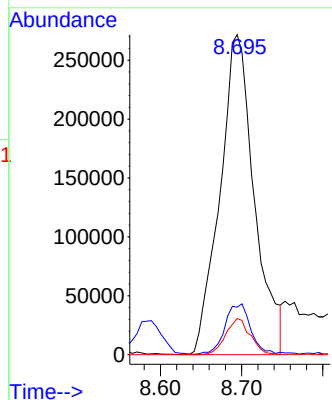
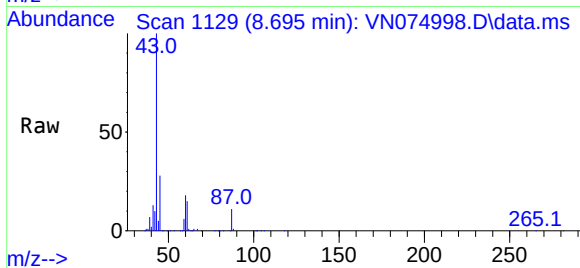




#43
Isopropyl Acetate
Concen: 6.389 ug/l
RT: 8.695 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

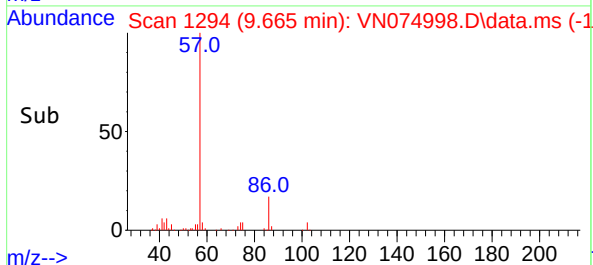
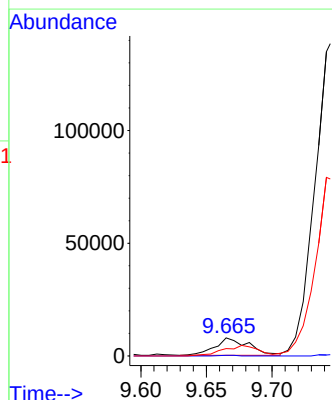
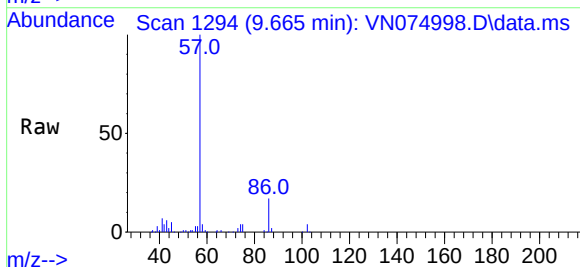
Instrument :
MSVOA_N
ClientSampleId :
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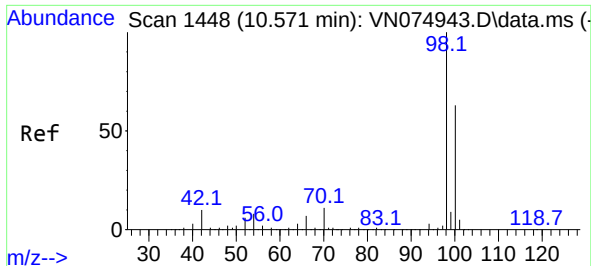
Tgt Ion: 43 Resp: 801379
Ion Ratio Lower Upper
43 100
61 12.1 22.3 33.5#
87 8.0 12.8 19.2#



#48
Methyl methacrylate
Concen: 0.251 ug/l
RT: 9.665 min Scan# 1294
Delta R.T. -0.017 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 41 Resp: 13791
Ion Ratio Lower Upper
41 100
69 2.0 79.7 119.5#
39 62.9 55.1 82.7

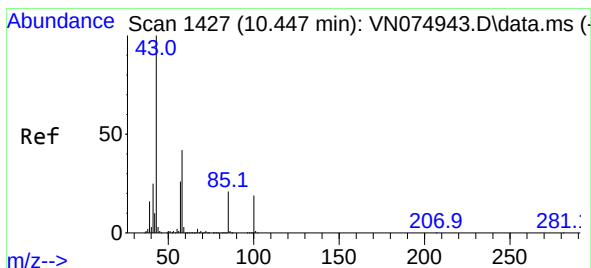
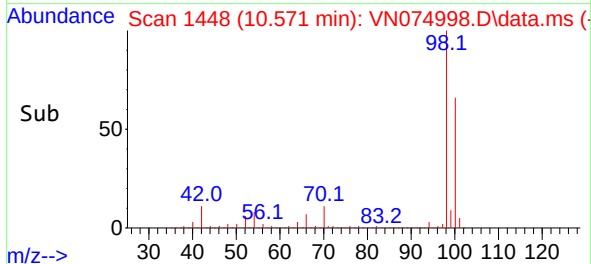
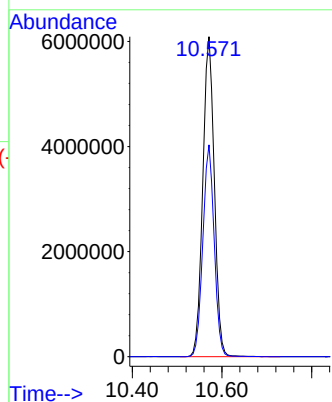
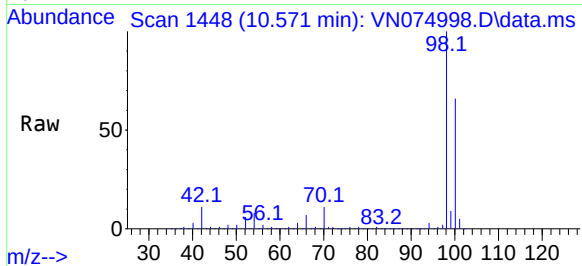




#50
Toluene-d8
Concen: 51.761 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

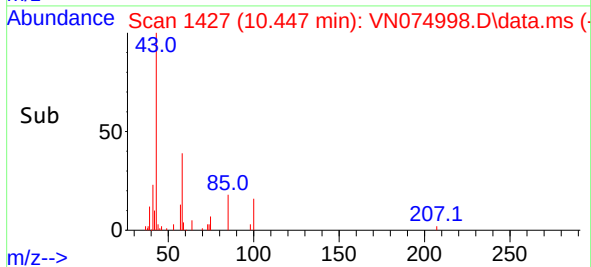
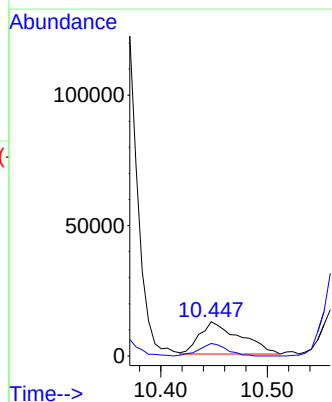
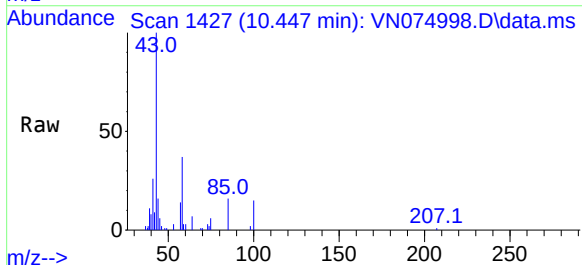
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MSVOA_N
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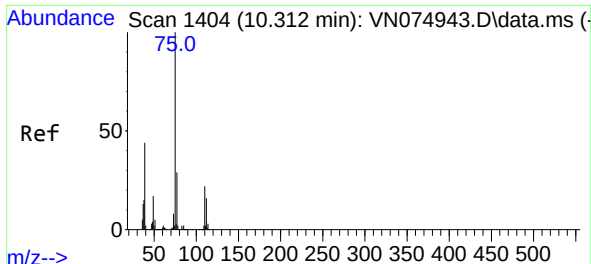
Tgt Ion: 98 Resp:10830757
Ion Ratio Lower Upper
98 100
100 65.4 51.4 77.2



#51
4-Methyl-2-Pentanone
Concen: 0.393 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 43 Resp: 32667
Ion Ratio Lower Upper
43 100
58 26.4 33.6 50.4#

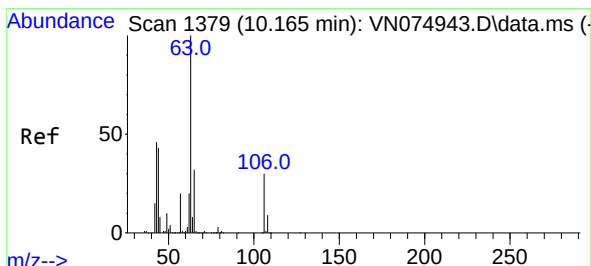
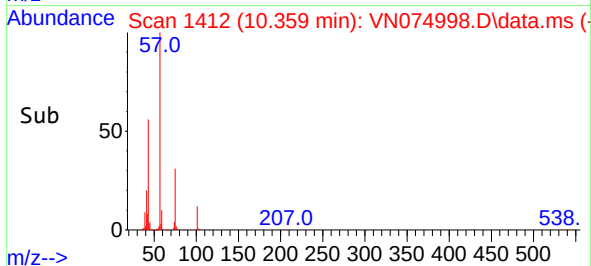
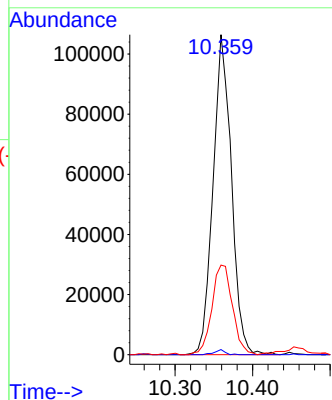
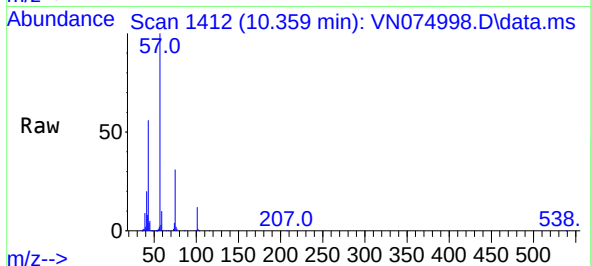




#54
 cis-1,3-Dichloropropene
 Concen: 1.993 ug/l
 RT: 10.359 min Scan# 1404
 Delta R.T. 0.047 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

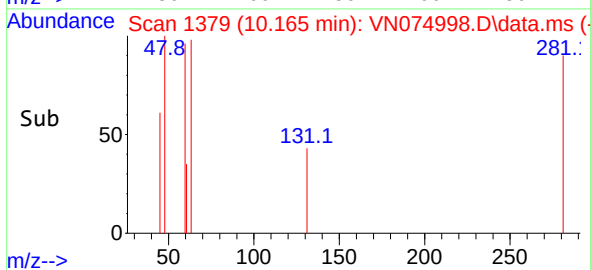
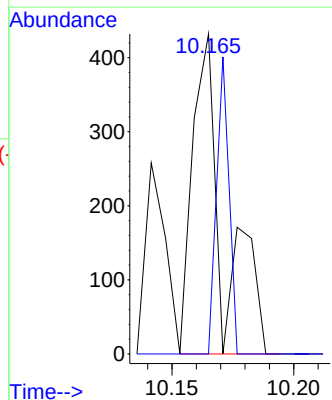
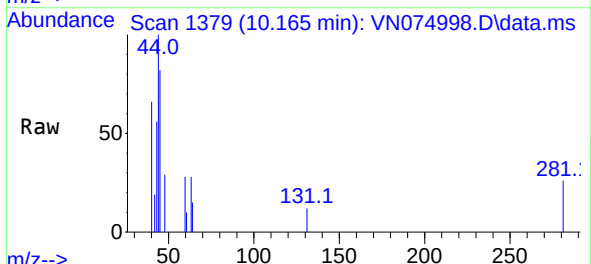
Instrument :
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 ClientSampleId :
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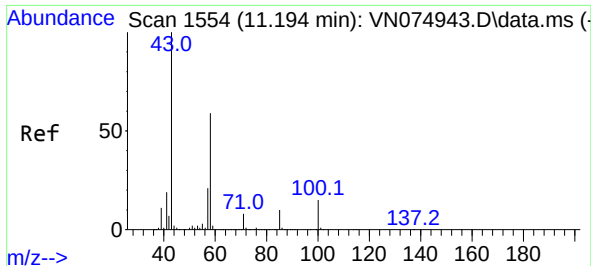
Tgt Ion: 75 Resp: 175301
 Ion Ratio Lower Upper
 75 100
 77 1.6 23.5 35.3#
 39 28.0 35.1 52.7#



#58
 2-Chloroethyl Vinyl ether
 Concen: 3.618 ug/l
 RT: 10.165 min Scan# 1379
 Delta R.T. 0.000 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

Tgt Ion: 63 Resp: 380
 Ion Ratio Lower Upper
 63 100
 106 37.1 24.1 36.1#

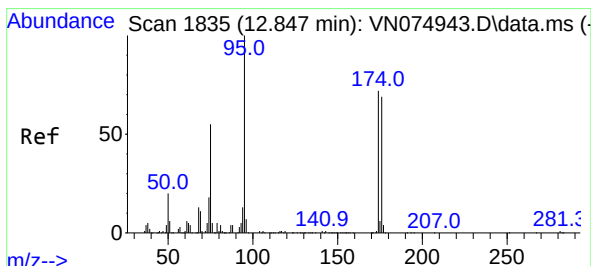
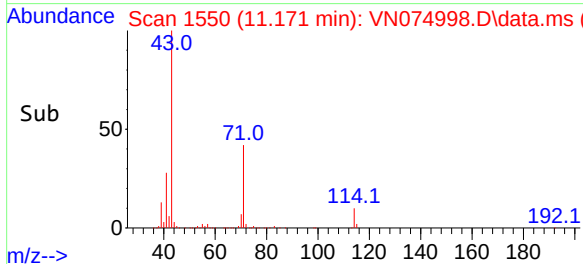
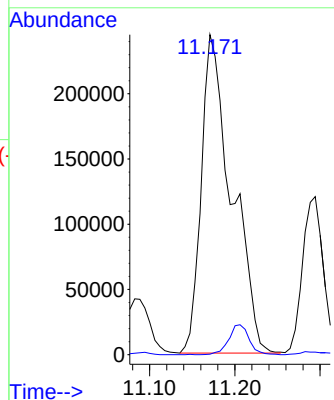
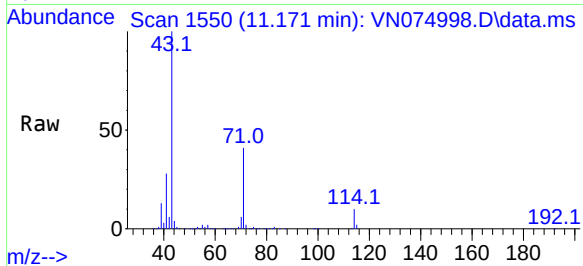




#59
2-Hexanone
Concen: 9.616 ug/l
RT: 11.171 min Scan# 1150
Delta R.T. -0.023 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

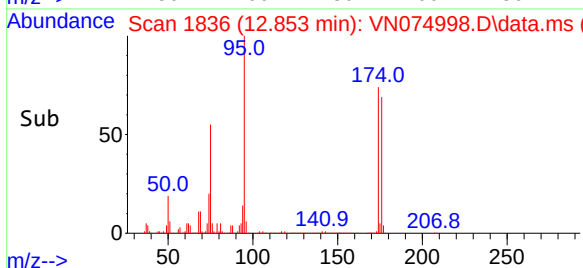
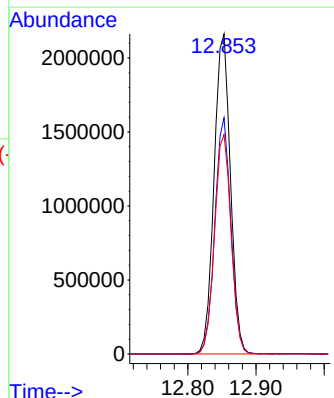
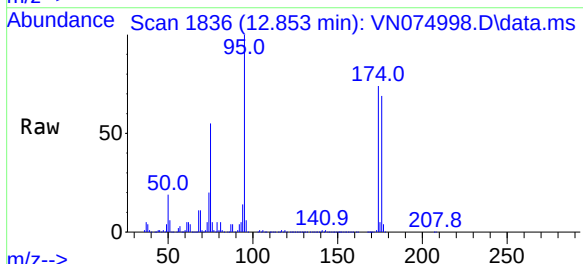
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MSVOA_N
ClientSampleId :
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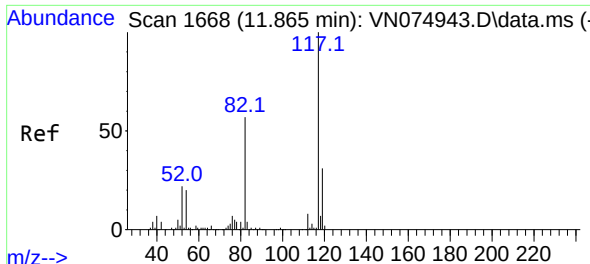
Tgt Ion: 43 Resp: 605945
Ion Ratio Lower Upper
43 100
58 0.0 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.924 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion: 95 Resp: 3610996
Ion Ratio Lower Upper
95 100
174 72.4 0.0 143.0
176 68.9 0.0 138.2

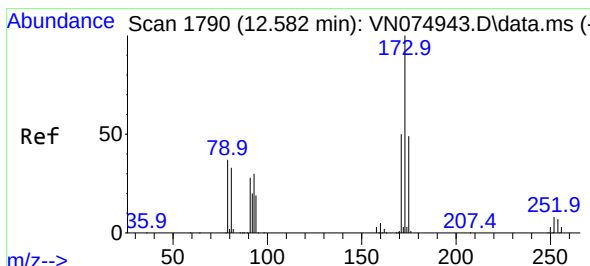
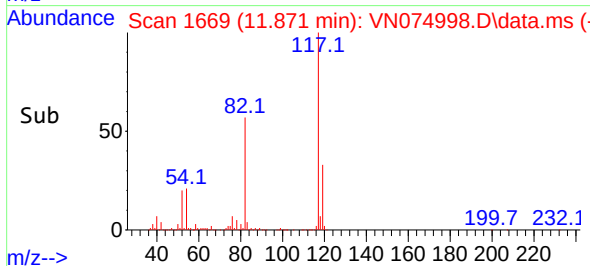
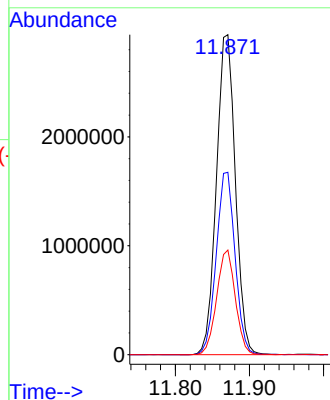
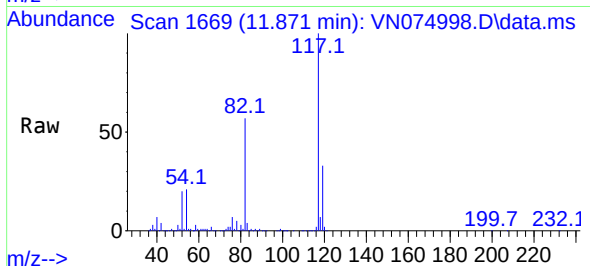




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

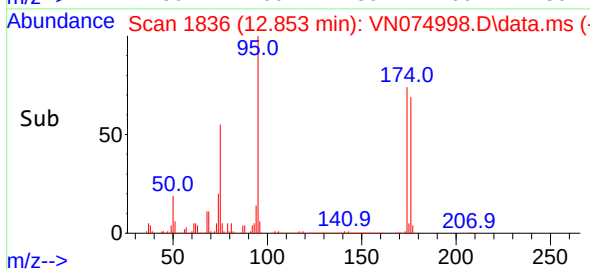
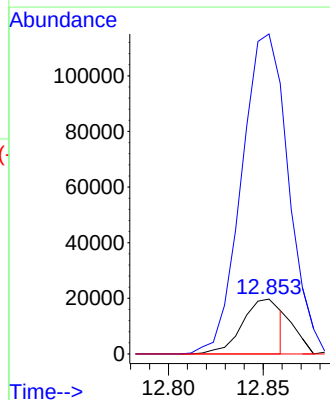
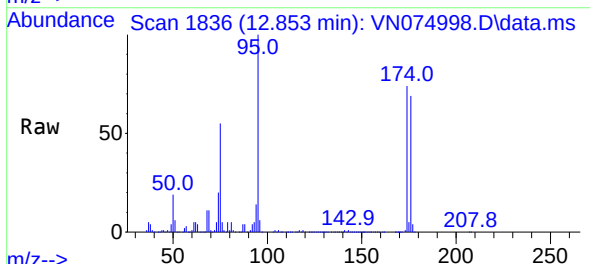
Instrument :
MSVOA_N
ClientSampleId :
SB-SOILPILE-1020

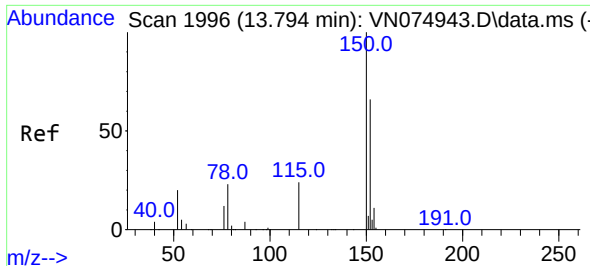
Tgt Ion:117 Resp: 5225339
Ion Ratio Lower Upper
117 100
82 57.0 45.6 68.4
119 32.7 25.1 37.7



#71
Bromoform
Concen: 0.620 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN074998.D
Acq: 24 Oct 2022 21:03

Tgt Ion:173 Resp: 27882
Ion Ratio Lower Upper
173 100
175 602.1 24.8 74.3#
254 0.0 0.1 0.1#

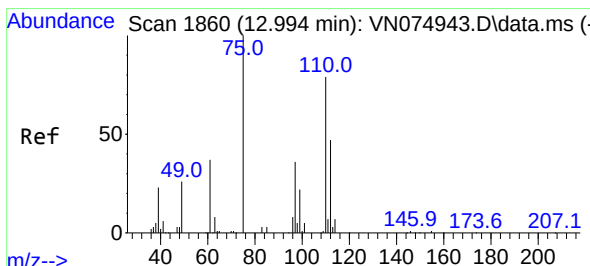
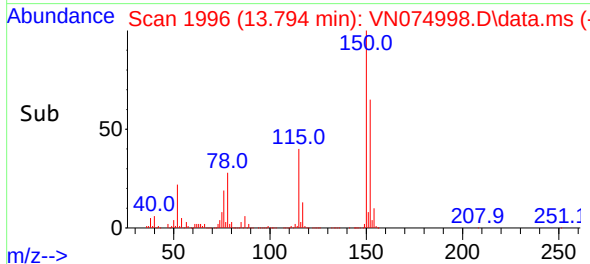
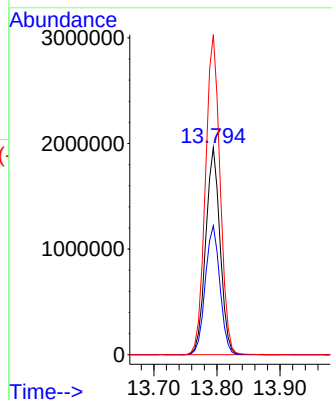
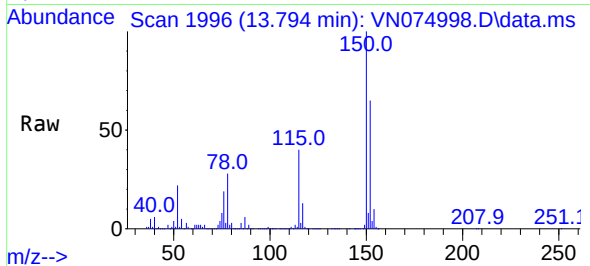




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

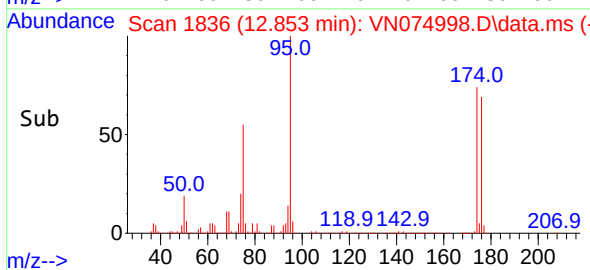
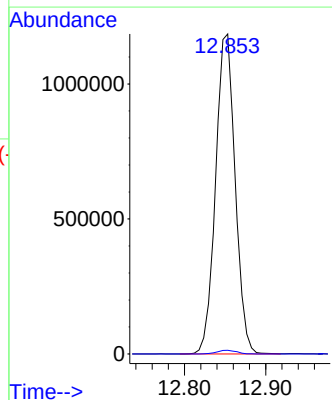
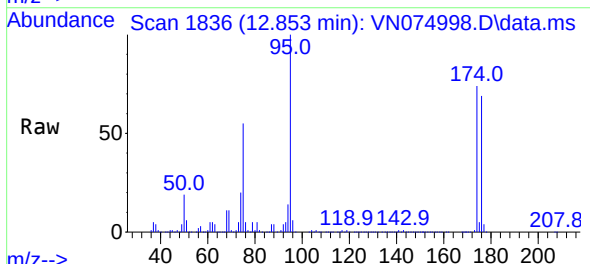
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-SOILPILE-1020

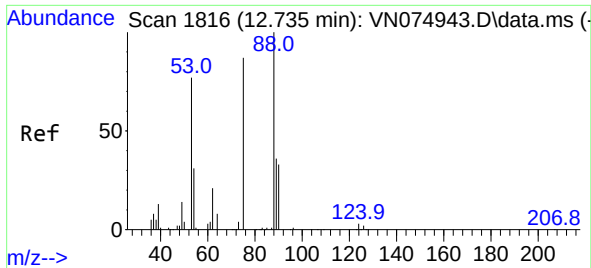
Tgt Ion:152 Resp: 3098473
 Ion Ratio Lower Upper
 152 100
 115 63.5 31.3 93.8
 150 157.6 0.0 349.6



#76
 1,2,3-Trichloropropane
 Concen: 23.624 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

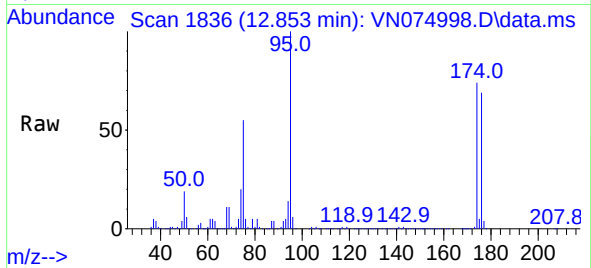
Tgt Ion: 75 Resp: 1985058
 Ion Ratio Lower Upper
 75 100
 77 1.2 81.0 243.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.744 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN074998.D
 Acq: 24 Oct 2022 21:03

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-SOILPILE-1020



Tgt Ion: 75 Resp: 1985058

Ion	Ratio	Lower	Upper
75	100		
53	0.0	79.2	118.8#
89	0.0	37.9	56.9#

