

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103122\
 Data File : VN075094.D
 Acq On : 31 Oct 2022 18:11
 Operator : JC\MD
 Sample : N5316-09RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-PILE-2

Quant Time: Nov 01 06:22:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

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

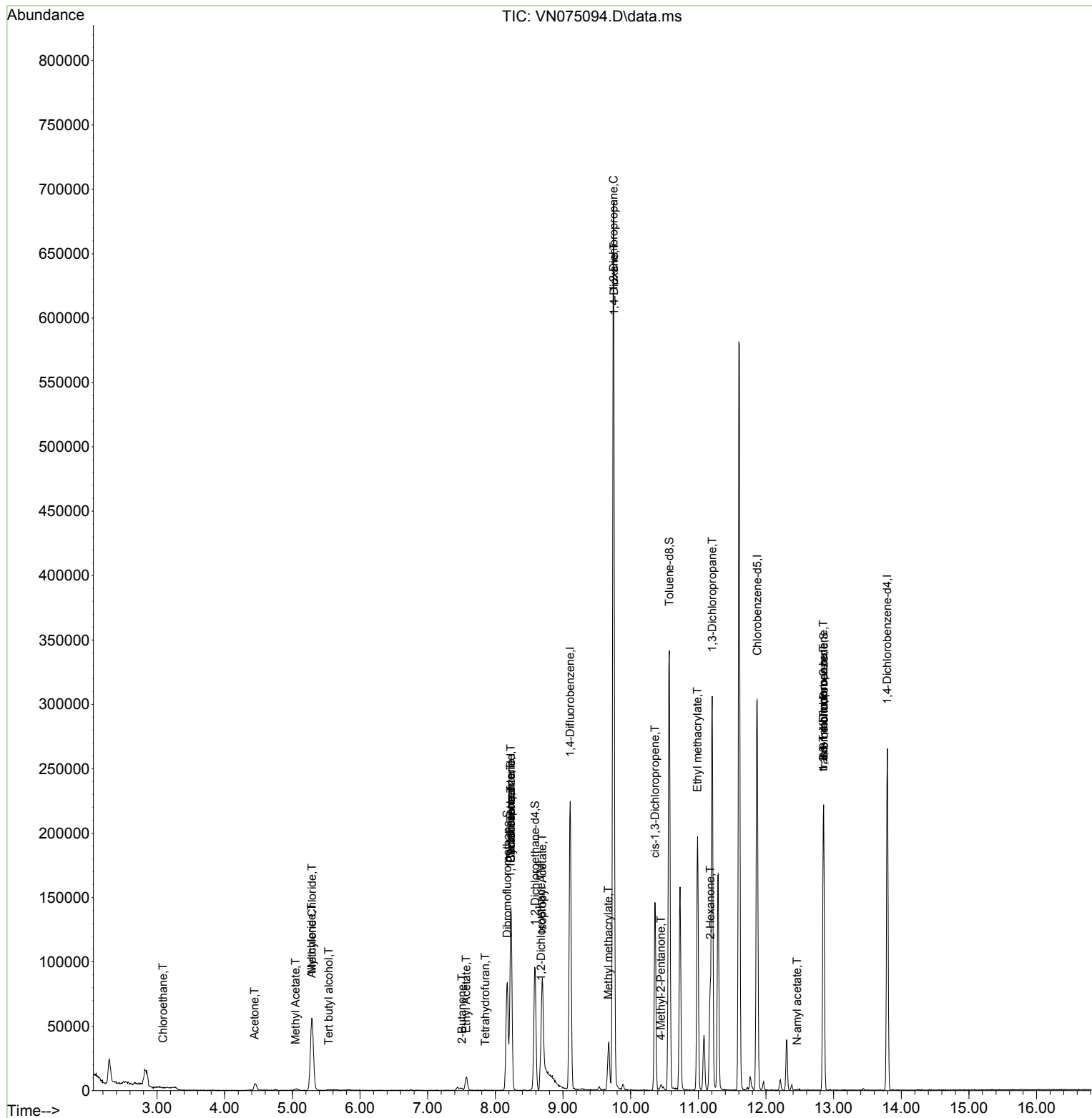
Internal Standards						
1) Pentafluorobenzene	8.230	168	98882	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	196247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	178572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	68069	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	79063	59.342	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.680%			
35) Dibromofluoromethane	8.177	113	59397	51.557	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.120%			
50) Toluene-d8	10.571	98	245203	54.859	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.720%			
62) 4-Bromofluorobenzene	12.853	95	75320	47.971	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.940%			
Target Compounds						
					Qvalue	
6) Chloroethane	3.089	64	297	0.212	ug/l #	45
11) Tert butyl alcohol	5.536	59	349	1.123	ug/l #	72
14) Allyl chloride	5.283	41	701	0.458	ug/l #	19
16) Acetone	4.442	43	4593	8.142	ug/l	95
18) Methyl Acetate	5.047	43	1512	0.821	ug/l #	86
20) Methylene Chloride	5.289	84	45868	36.466	ug/l	88
25) 2-Butanone	7.506	43	2977	3.355	ug/l	97
29) Tetrahydrofuran	7.853	42	186	0.324	ug/l #	26
31) Cyclohexane	8.230	56	2665	1.345	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	9154	5.132	ug/l #	48
37) Ethyl Acetate	7.571	43	15904	8.131	ug/l	97
38) Carbon Tetrachloride	8.230	117	11002	5.608	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	425	0.214	ug/l #	75
43) Isopropyl Acetate	8.694	43	120125	39.592	ug/l #	76
45) 1,2-Dichloropropane	9.747	63	827	0.636	ug/l #	42
48) Methyl methacrylate	9.671	41	2101	1.510	ug/l #	32
49) 1,4-Dioxane	9.753	88	75	2.058	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	5752	2.938	ug/l #	61
54) cis-1,3-Dichloropropene	10.359	75	26633	12.133	ug/l #	66
56) Ethyl methacrylate	10.988	69	685	0.310	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	2969	1.232	ug/l #	42
59) 2-Hexanone	11.176	43	65119	43.822	ug/l #	21
71) Bromoform	12.853	173	489	0.462	ug/l #	1
74) N-amyl acetate	12.459	43	449	0.222	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	42912	29.691	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	42912	76.216	ug/l #	10

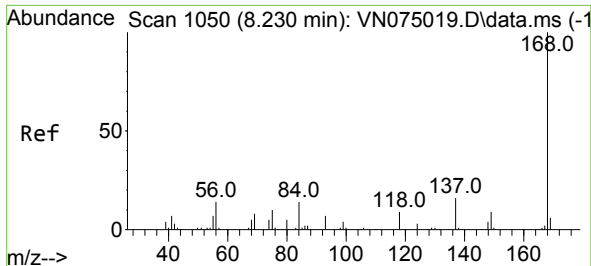
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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COMPOSITE-PILE-2

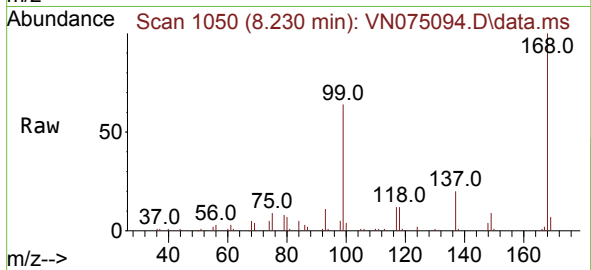
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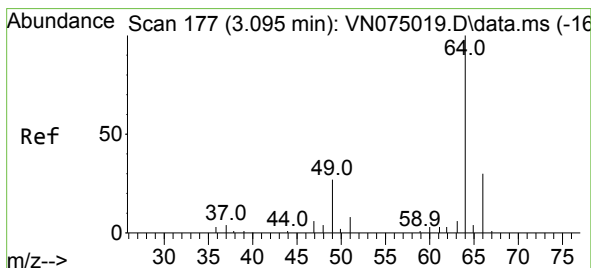
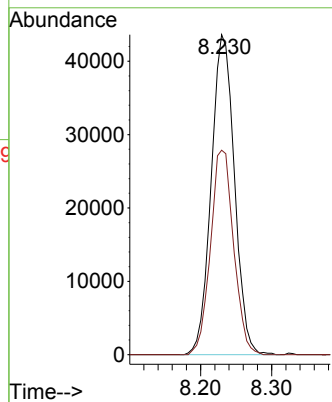
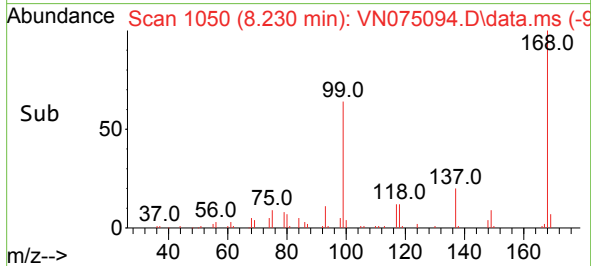


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

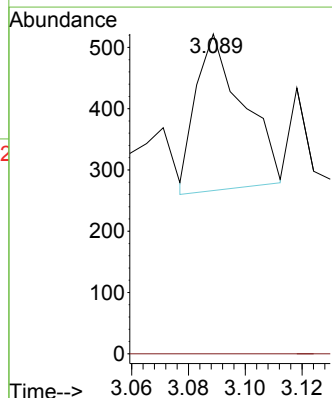
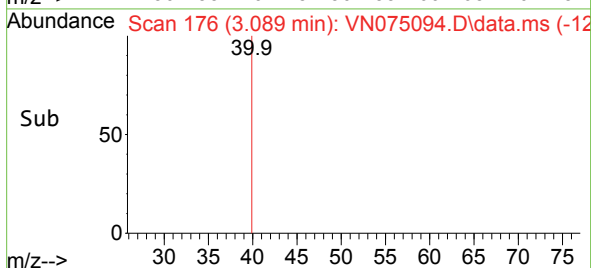
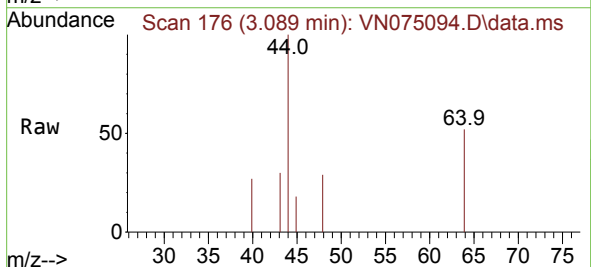


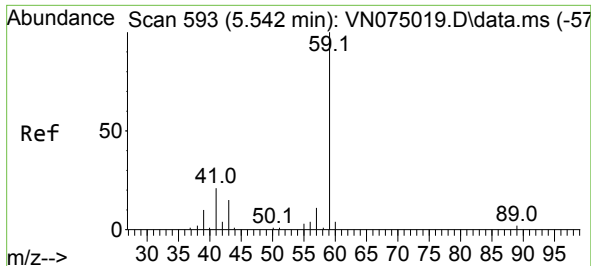
Tgt Ion:168 Resp: 98882
Ion Ratio Lower Upper
168 100
99 63.9 51.6 77.4



#6
Chloroethane
Concen: 0.212 ug/l
RT: 3.089 min Scan# 176
Delta R.T. -0.006 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 64 Resp: 297
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#

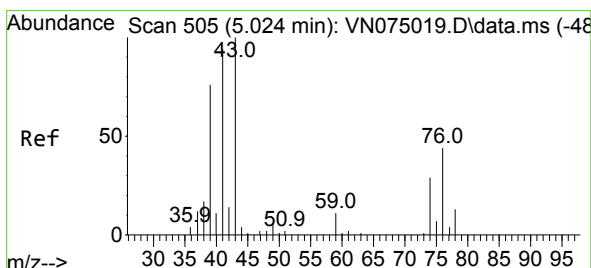
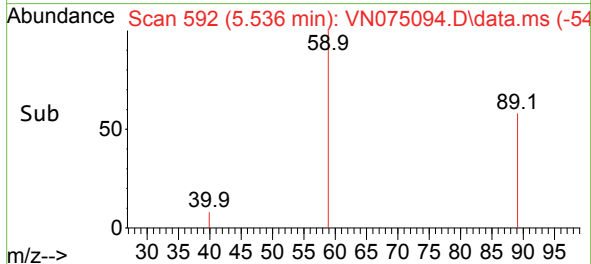
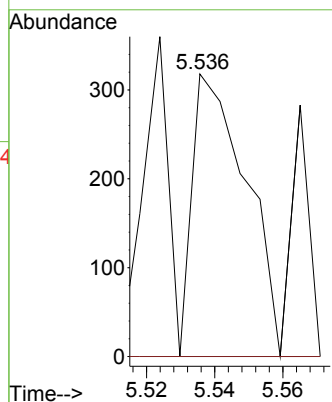
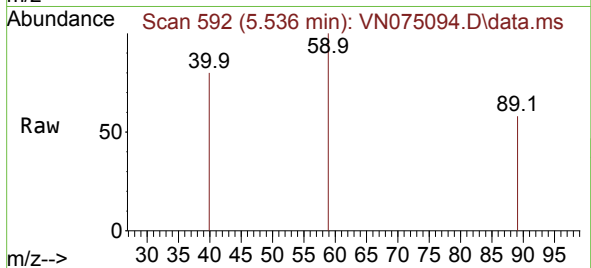




#11
Tert butyl alcohol
Concen: 1.123 ug/l
RT: 5.536 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

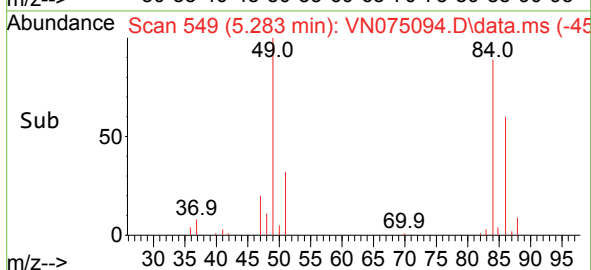
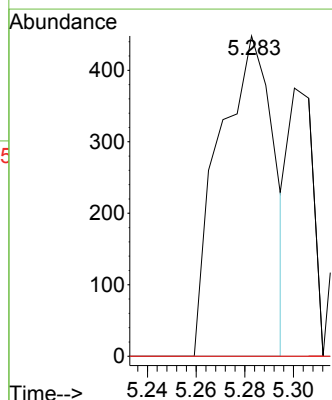
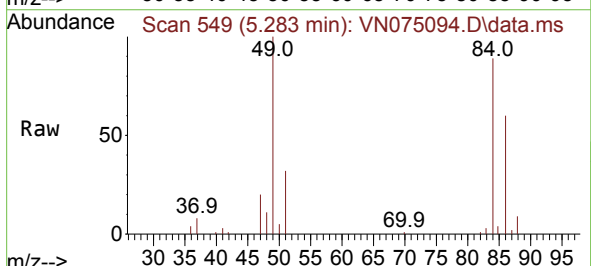
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

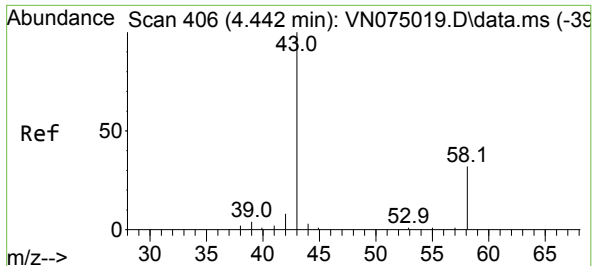
Tgt Ion: 59 Resp: 349
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#14
Allyl chloride
Concen: 0.458 ug/l
RT: 5.283 min Scan# 549
Delta R.T. 0.259 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 41 Resp: 701
Ion Ratio Lower Upper
41 100
39 0.0 61.0 91.4#
76 0.0 33.4 50.0#

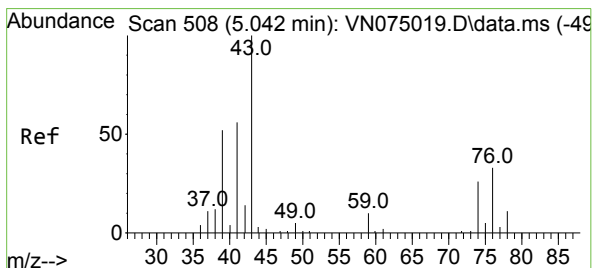
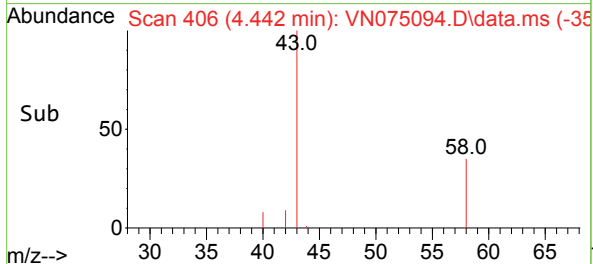
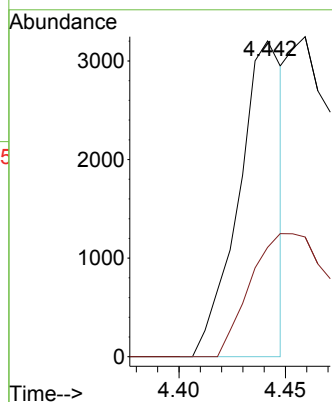
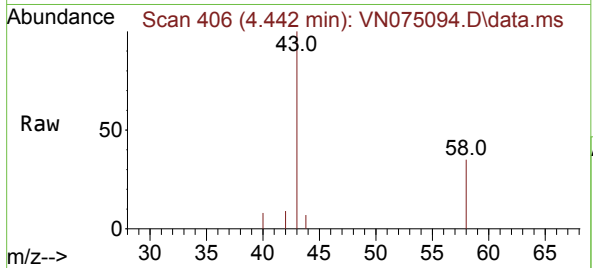




#16
Acetone
Concen: 8.142 ug/l
RT: 4.442 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

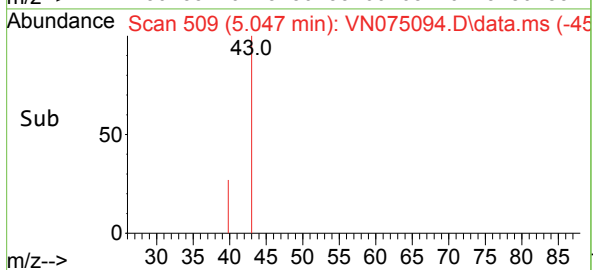
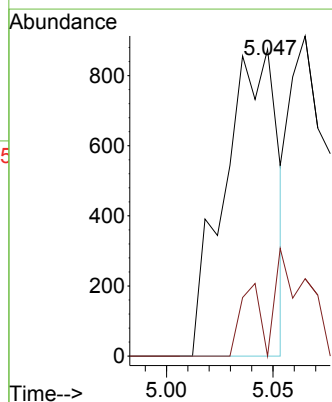
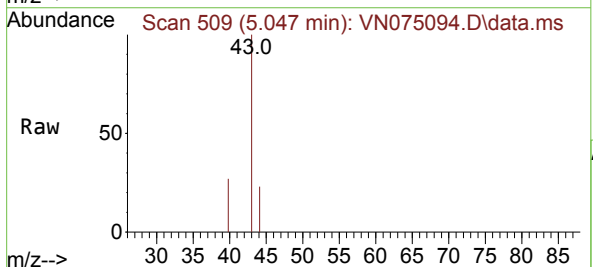
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

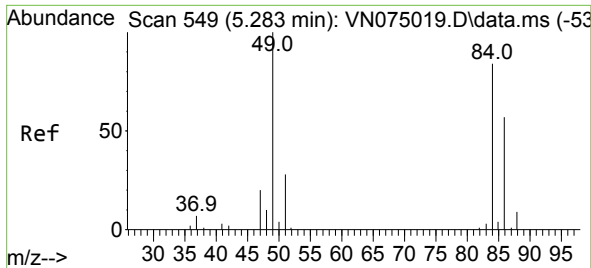
Tgt Ion: 43 Resp: 4593
Ion Ratio Lower Upper
43 100
58 34.6 25.5 38.3



#18
Methyl Acetate
Concen: 0.821 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.005 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 43 Resp: 1512
Ion Ratio Lower Upper
43 100
74 20.2 22.0 33.0#

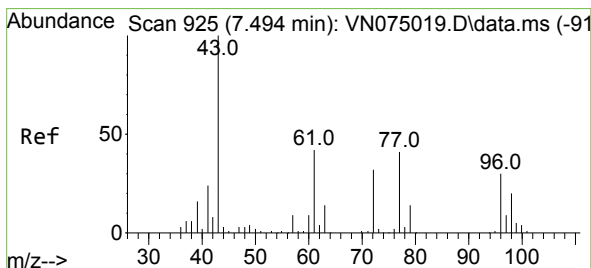
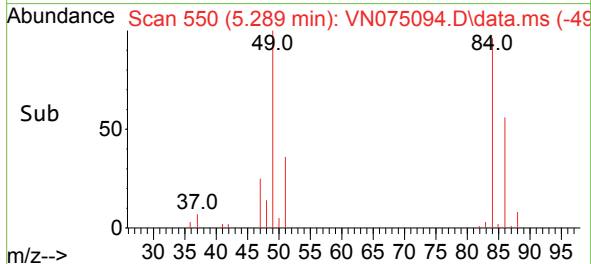
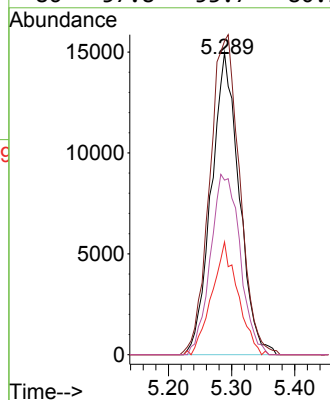
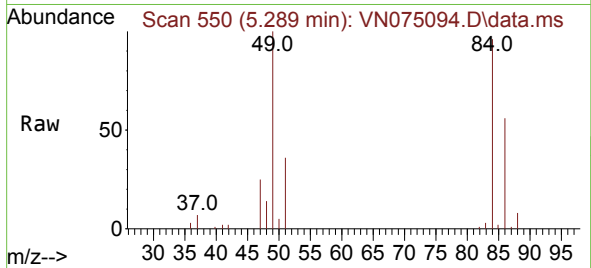




#20
Methylene Chloride
Concen: 36.466 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

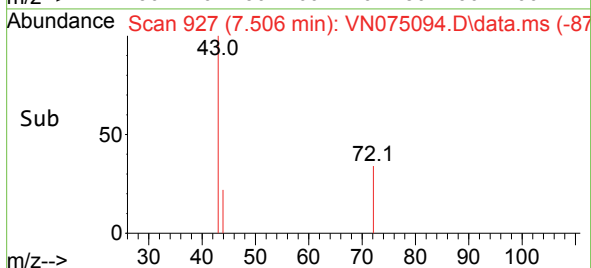
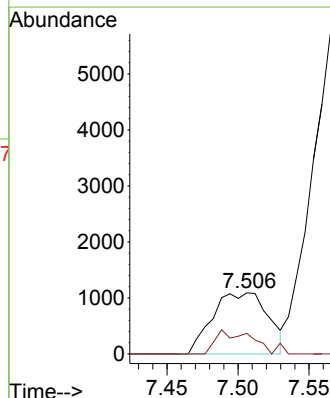
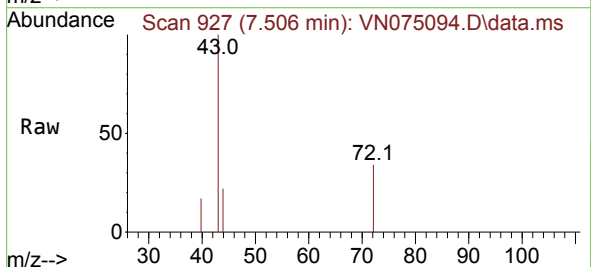
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

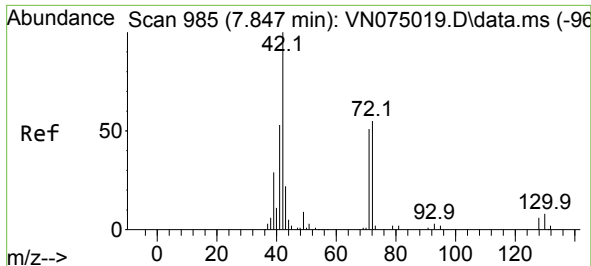
Tgt Ion: 84	Resp: 45868
Ion Ratio	Lower Upper
84 100	
49 103.9	94.9 142.3
51 37.3	26.8 40.2
86 57.8	53.7 80.5



#25
2-Butanone
Concen: 3.355 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.012 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 43	Resp: 2977
Ion Ratio	Lower Upper
43 100	
72 33.8	25.5 38.3

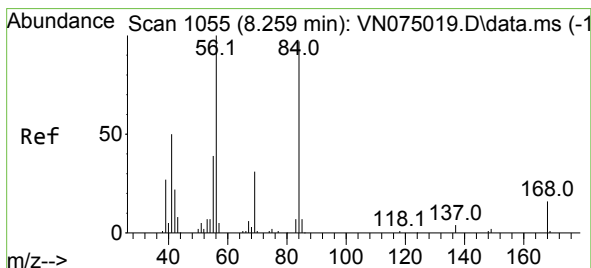
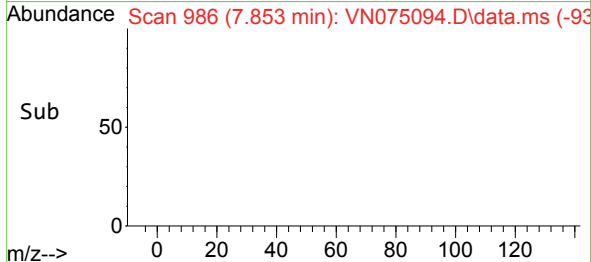
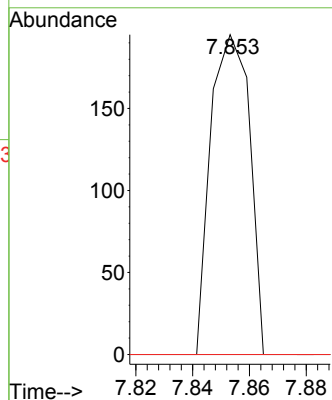
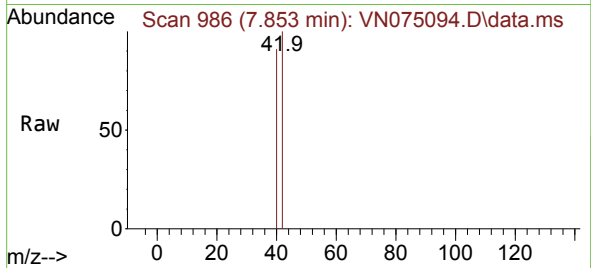




#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 7.853 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

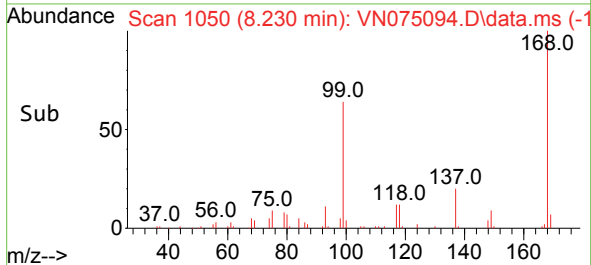
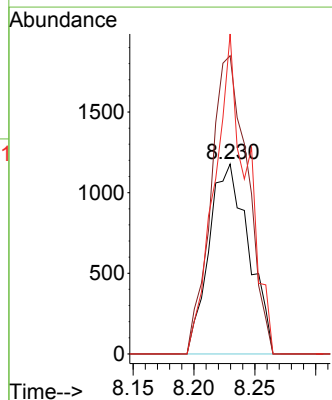
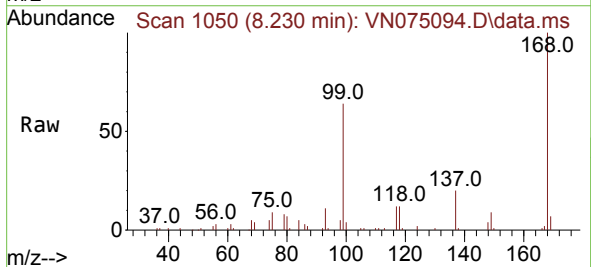
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

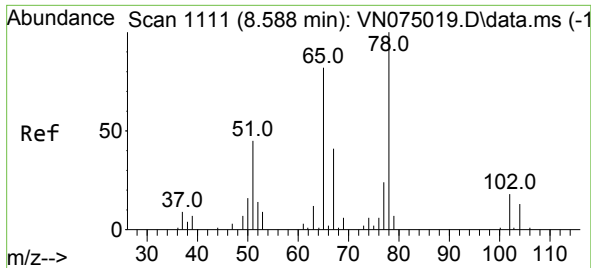
Tgt Ion: 42 Resp: 186
Ion Ratio Lower Upper
42 100
72 0.0 43.0 64.6#
71 0.0 39.9 59.9#



#31
Cyclohexane
Concen: 1.345 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 56 Resp: 2665
Ion Ratio Lower Upper
56 100
69 157.1 25.2 37.8#
84 168.6 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 59.342 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.000 min

Lab File: VN075094.D

Acq: 31 Oct 2022 18:11

Instrument :

MSVOA_N

ClientSampleId :

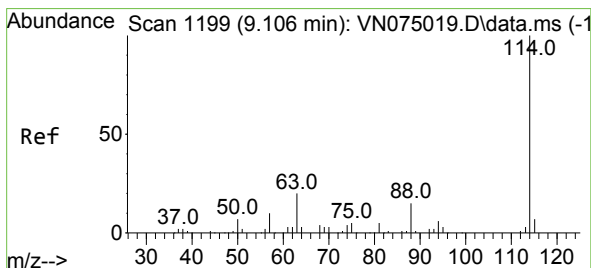
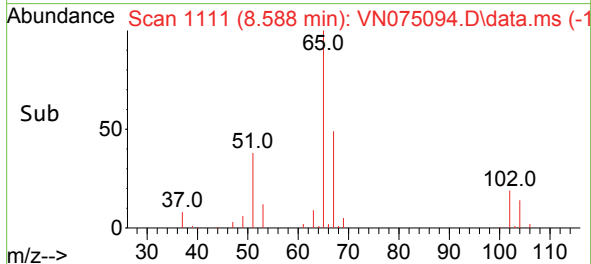
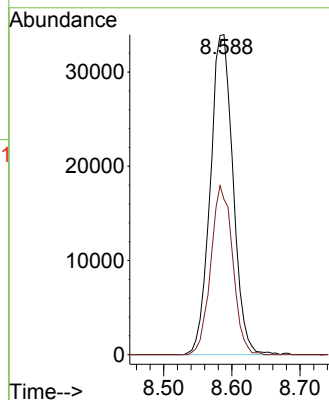
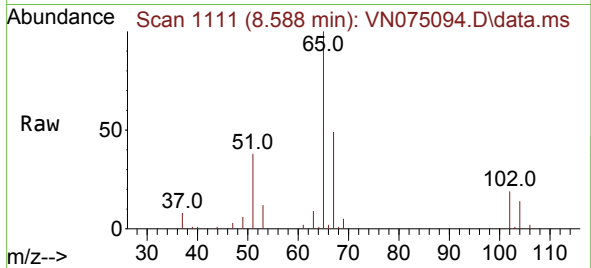
COMPOSITE-PILE-2

Tgt Ion: 65 Resp: 79063

Ion Ratio Lower Upper

65 100

67 50.6 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075094.D

Acq: 31 Oct 2022 18:11

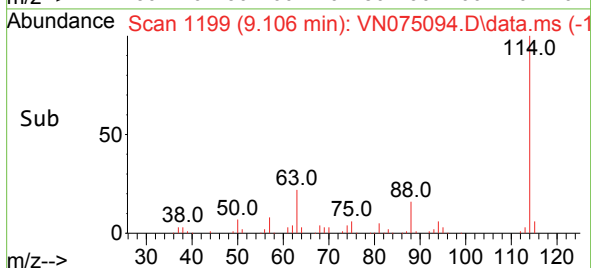
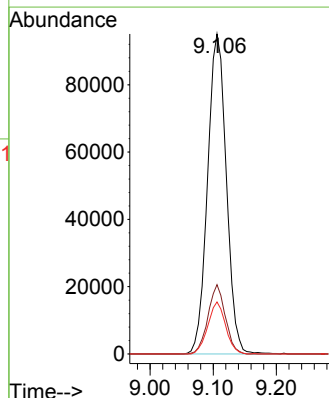
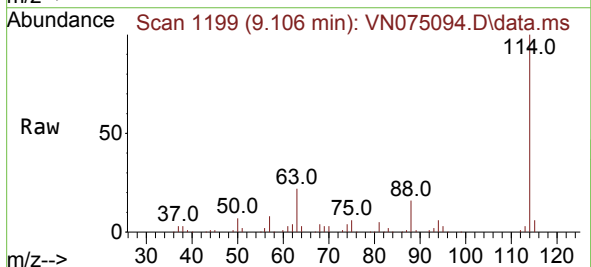
Tgt Ion: 114 Resp: 196247

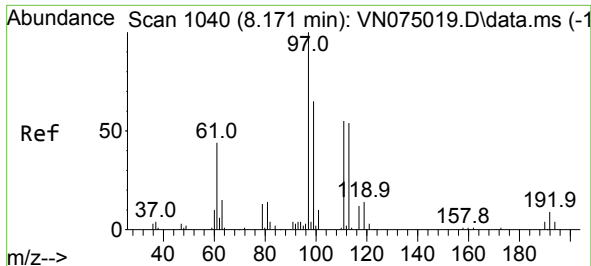
Ion Ratio Lower Upper

114 100

63 21.7 0.0 39.6

88 16.2 0.0 29.0

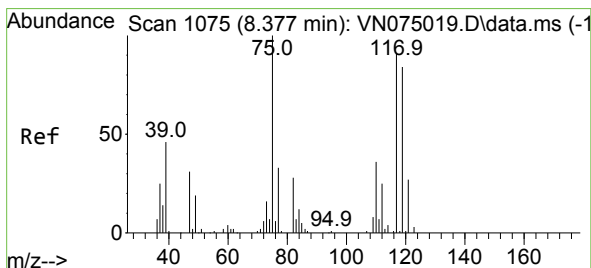
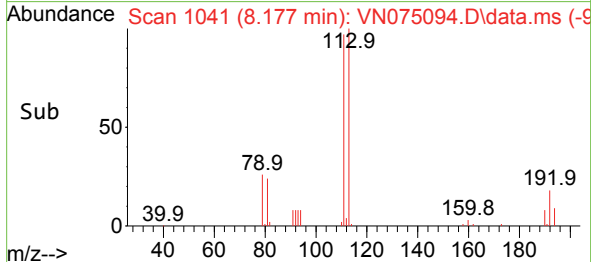
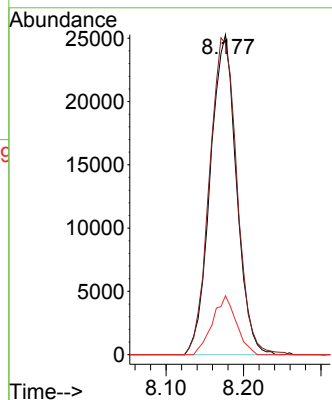
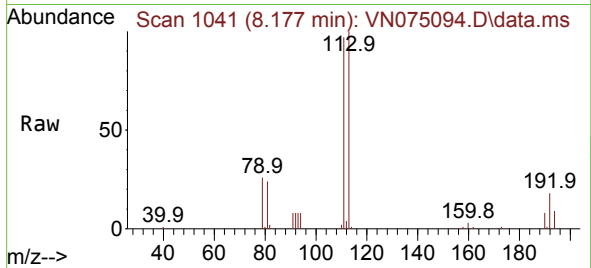




#35
Dibromofluoromethane
Concen: 51.557 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

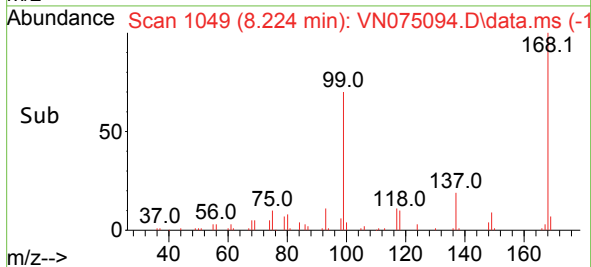
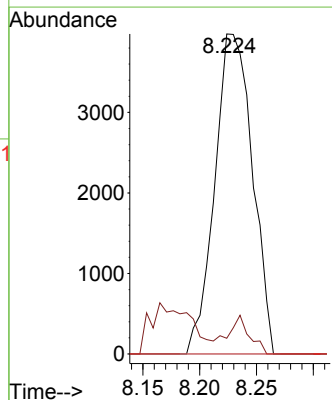
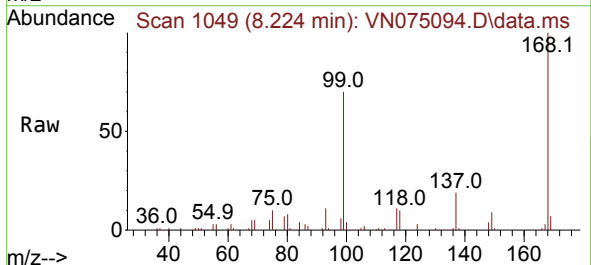
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

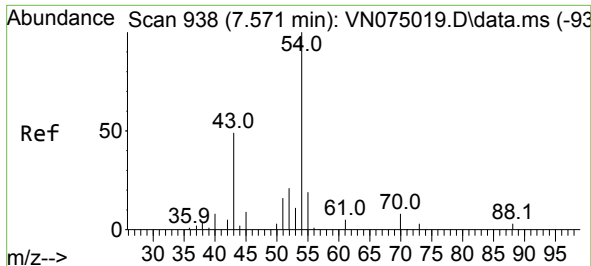
Tgt Ion:113 Resp: 59397
Ion Ratio Lower Upper
113 100
111 104.2 80.5 120.7
192 16.8 13.2 19.8



#36
1,1-Dichloropropene
Concen: 5.132 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.153 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 75 Resp: 9154
Ion Ratio Lower Upper
75 100
110 6.9 17.8 53.3#
77 0.0 24.6 37.0#

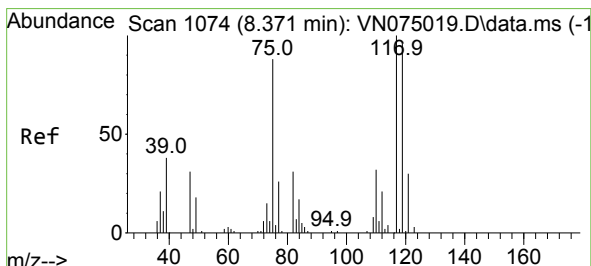
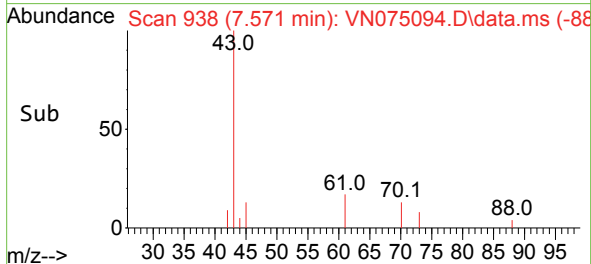
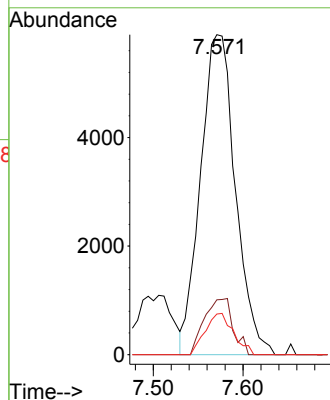
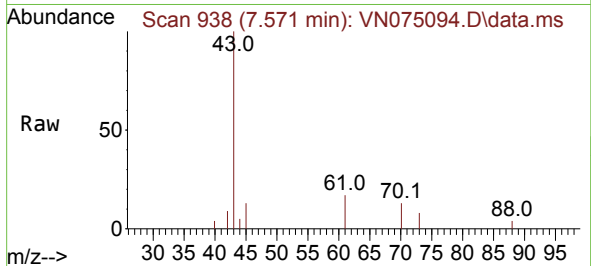




#37
Ethyl Acetate
Concen: 8.131 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

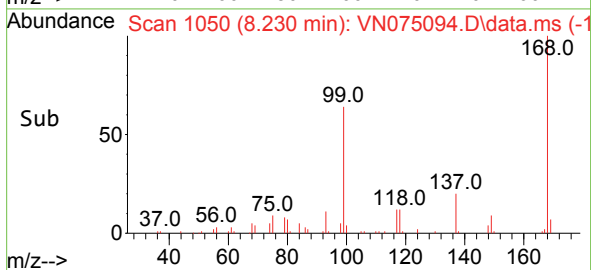
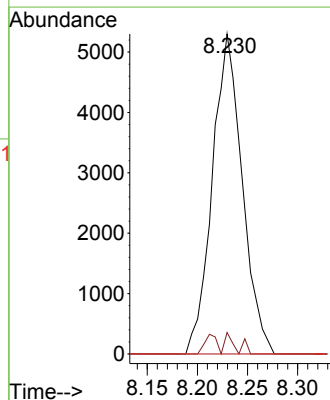
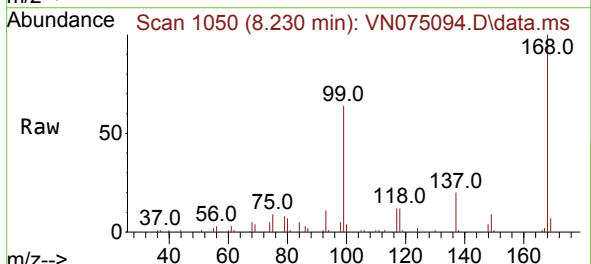
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

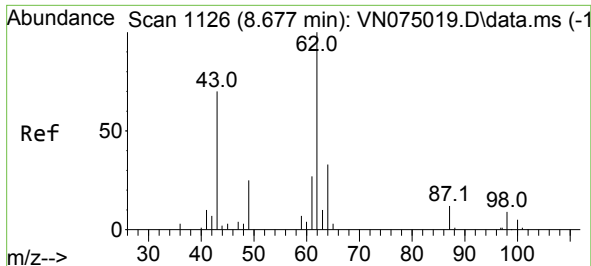
Tgt Ion:	43	Resp:	15904
Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.2	18.4
70	10.4	9.4	14.2



#38
Carbon Tetrachloride
Concen: 5.608 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion:	117	Resp:	11002
Ion	Ratio	Lower	Upper
117	100		
119	6.7	76.7	115.1#
121	0.0	23.9	35.9#





#42

1,2-Dichloroethane

Concen: 0.214 ug/l

RT: 8.677 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN075094.D

Acq: 31 Oct 2022 18:11

Instrument :

MSVOA_N

ClientSampleId :

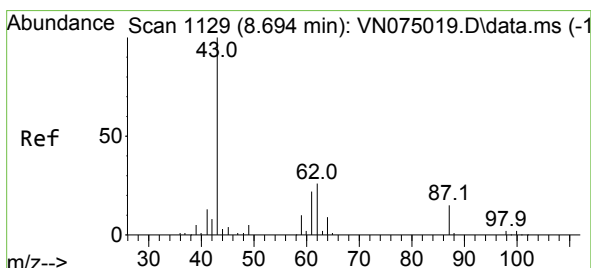
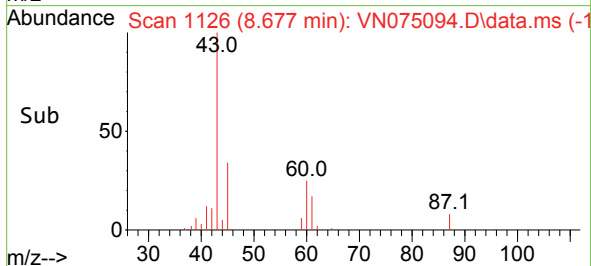
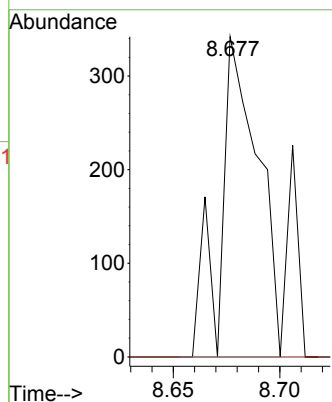
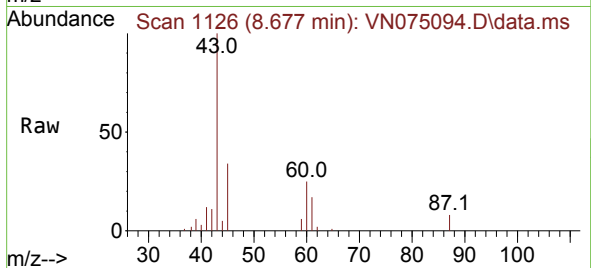
COMPOSITE-PILE-2

Tgt Ion: 62 Resp: 425

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 39.592 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075094.D

Acq: 31 Oct 2022 18:11

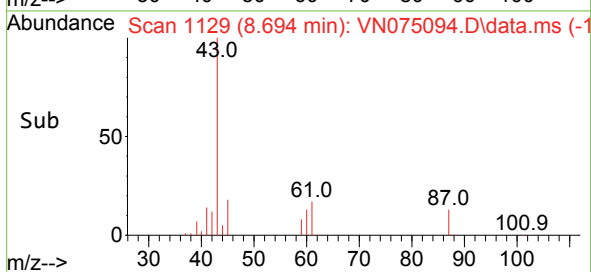
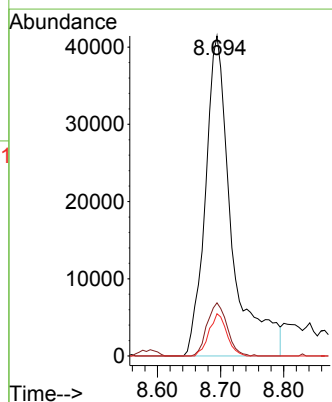
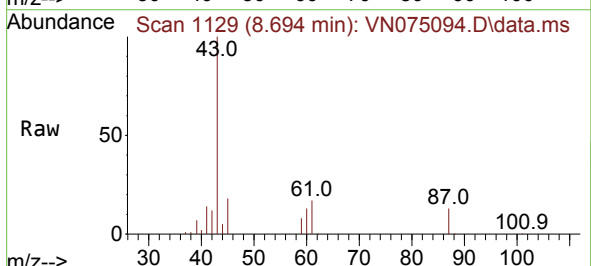
Tgt Ion: 43 Resp: 120125

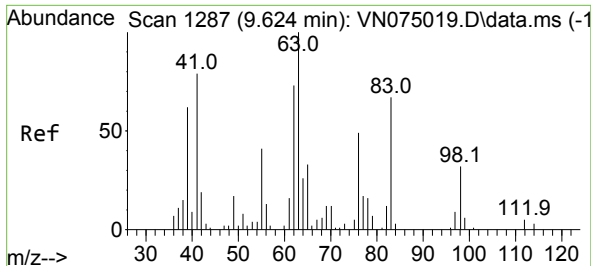
Ion Ratio Lower Upper

43 100

61 12.6 22.4 33.6#

87 8.9 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.636 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN075094.D

Acq: 31 Oct 2022 18:11

Instrument :

MSVOA_N

ClientSampleId :

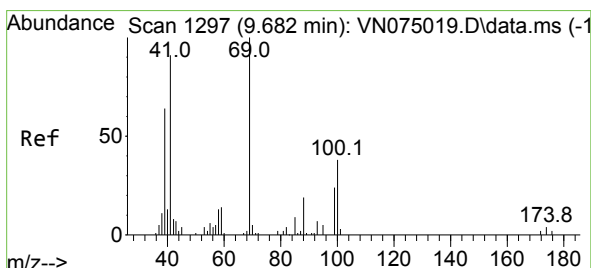
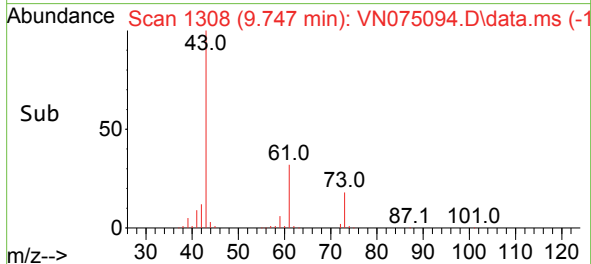
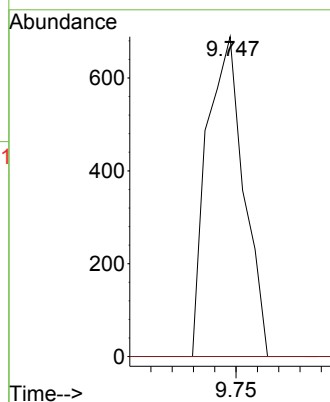
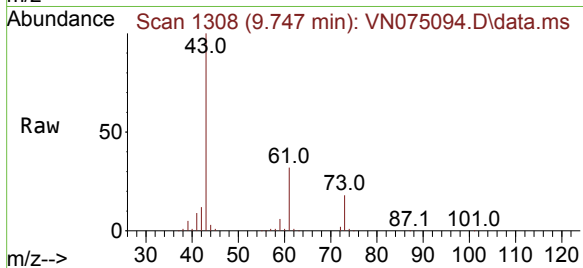
COMPOSITE-PILE-2

Tgt Ion: 63 Resp: 827

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.510 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN075094.D

Acq: 31 Oct 2022 18:11

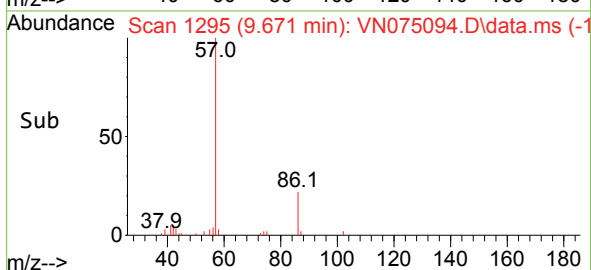
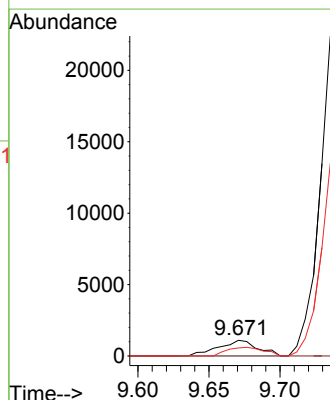
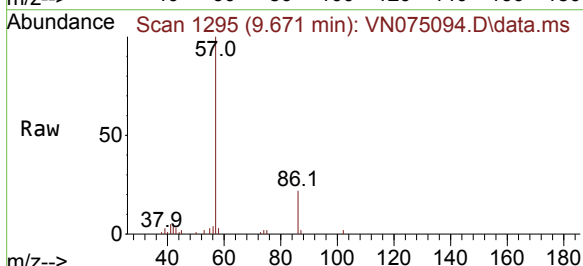
Tgt Ion: 41 Resp: 2101

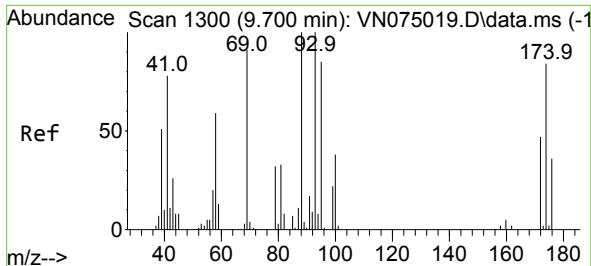
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 52.0 56.2 84.2#





#49

1,4-Dioxane

Concen: 2.058 ug/l

RT: 9.753 min Scan# 1309

Delta R.T. 0.053 min

Lab File: VN075094.D

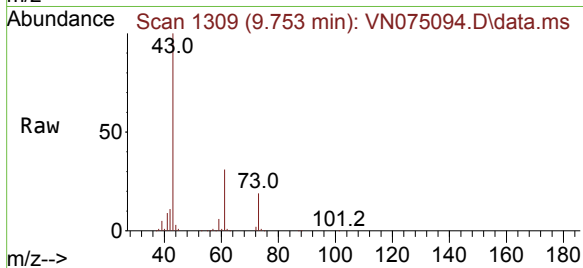
Acq: 31 Oct 2022 18:11

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-PILE-2



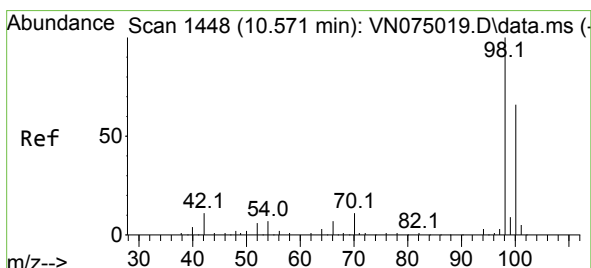
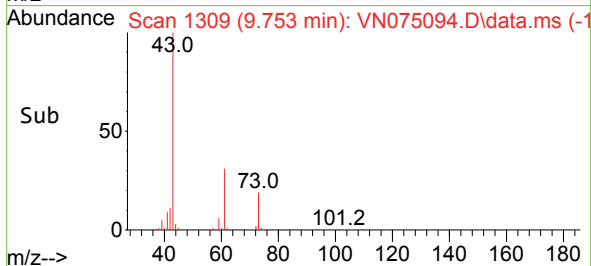
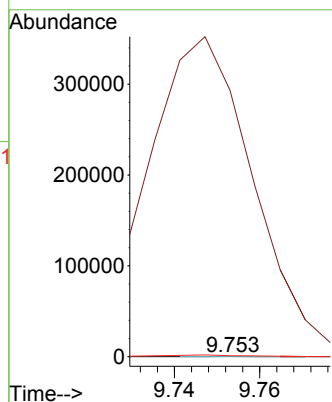
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 839756.0 17.5 26.3#

58 3886.7 49.8 74.8#



#50

Toluene-d8

Concen: 54.859 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075094.D

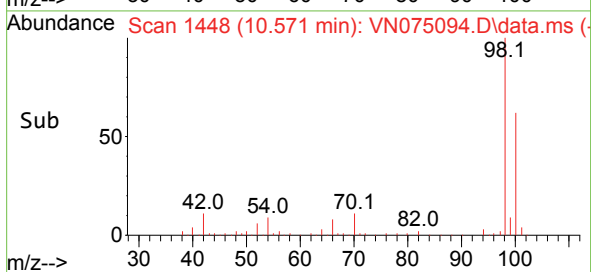
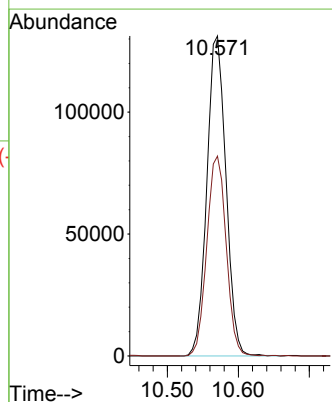
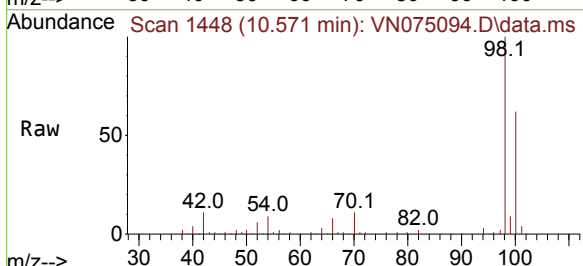
Acq: 31 Oct 2022 18:11

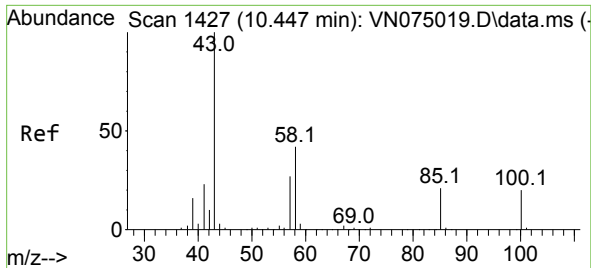
Tgt Ion: 98 Resp: 245203

Ion Ratio Lower Upper

98 100

100 63.4 53.0 79.6

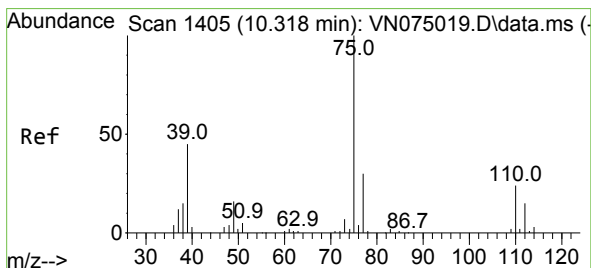
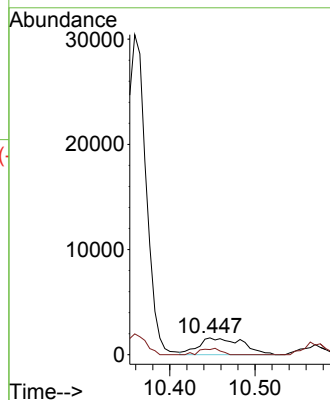
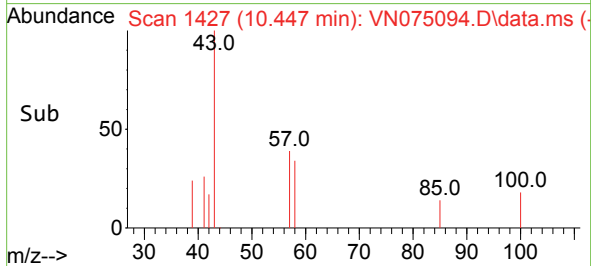
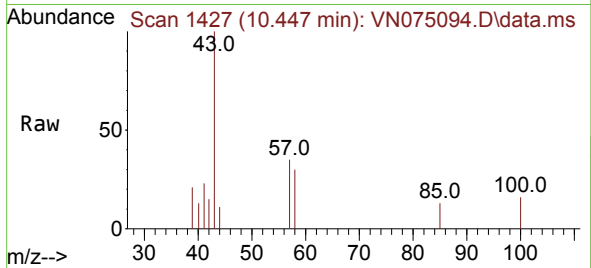




#51
4-Methyl-2-Pentanone
Concen: 2.938 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

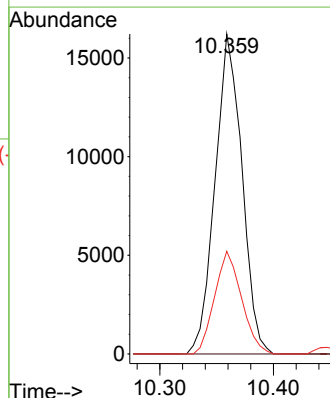
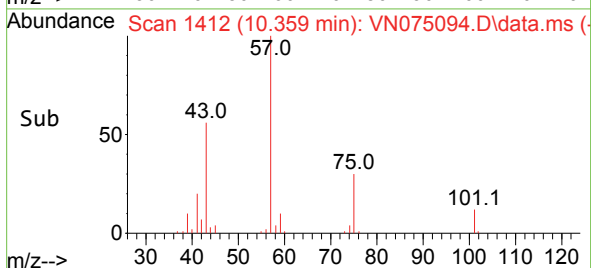
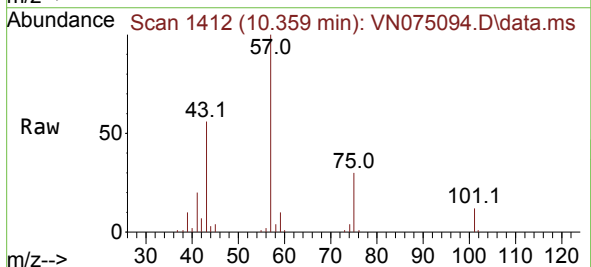
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

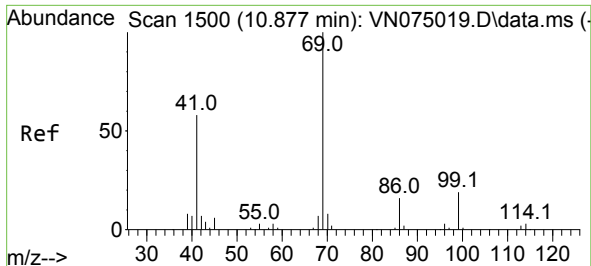
Tgt Ion: 43 Resp: 5752
Ion Ratio Lower Upper
43 100
58 17.4 33.6 50.4#



#54
cis-1,3-Dichloropropene
Concen: 12.133 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.041 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 75 Resp: 26633
Ion Ratio Lower Upper
75 100
77 0.0 23.7 35.5#
39 32.1 35.8 53.6#

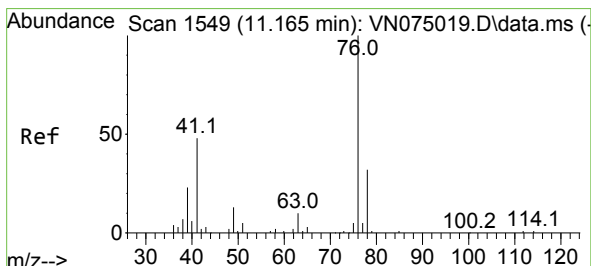
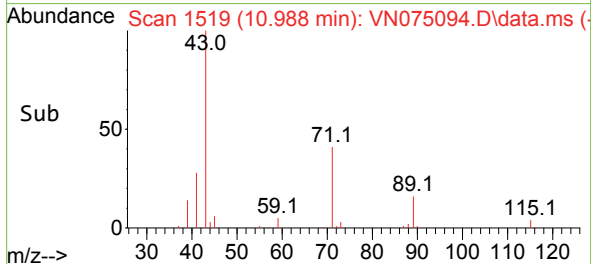
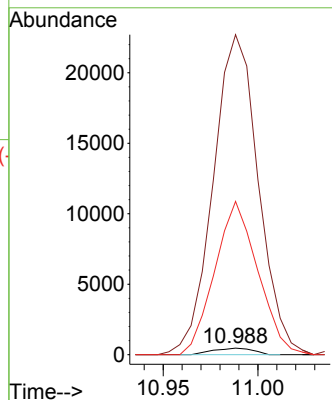
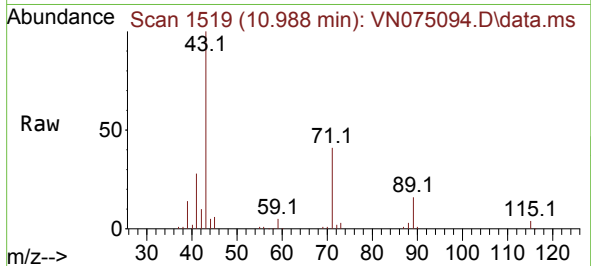




#56
Ethyl methacrylate
Concen: 0.310 ug/l
RT: 10.988 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

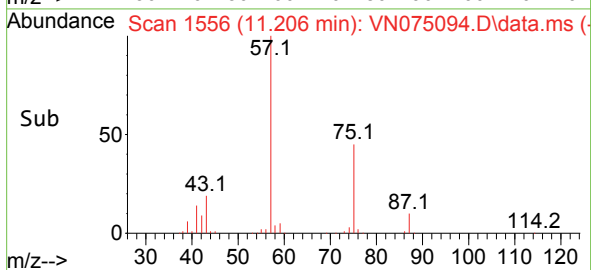
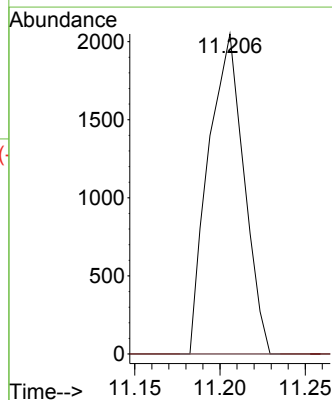
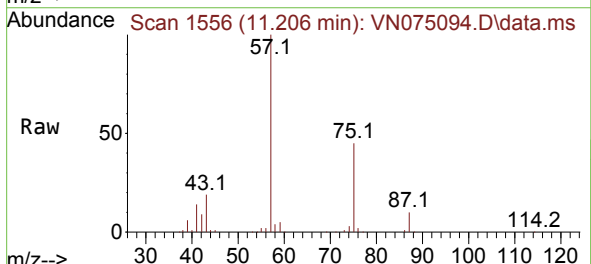
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

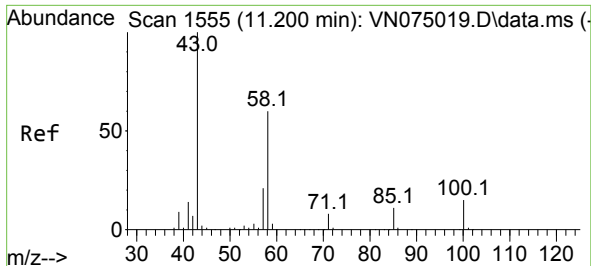
Tgt Ion: 69 Resp: 685
Ion Ratio Lower Upper
69 100
41 5523.8 45.6 68.4#
39 2510.8 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.232 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 76 Resp: 2969
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

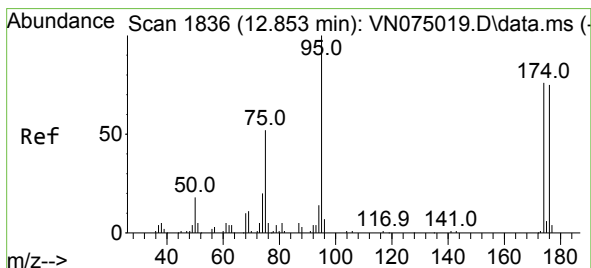
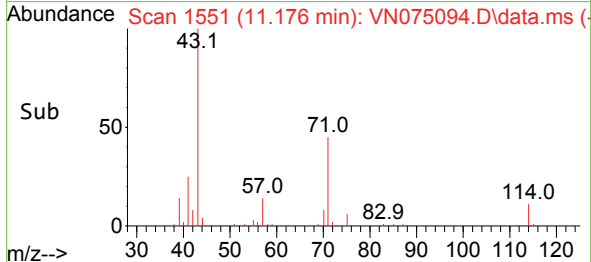
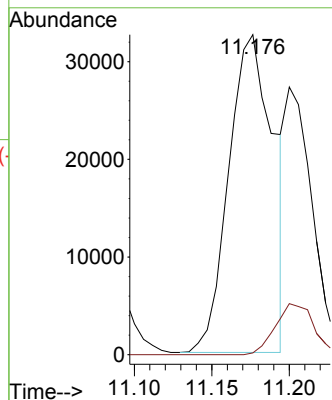
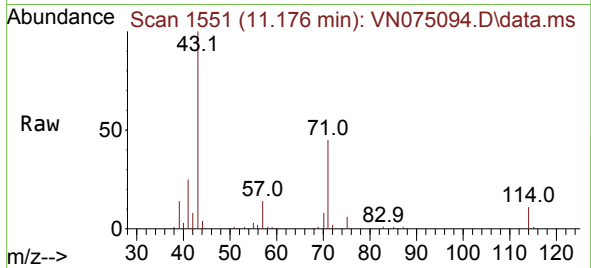




#59
2-Hexanone
Concen: 43.822 ug/l
RT: 11.176 min Scan# 11551
Delta R.T. -0.024 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

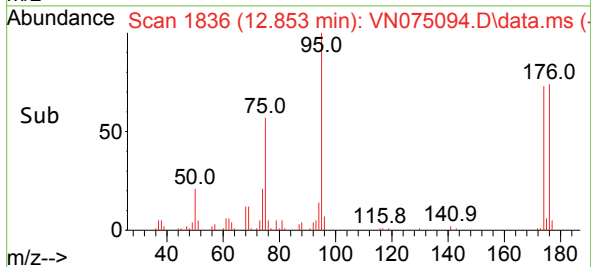
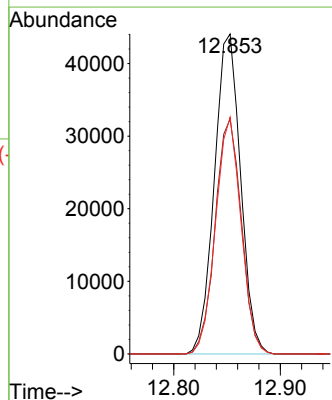
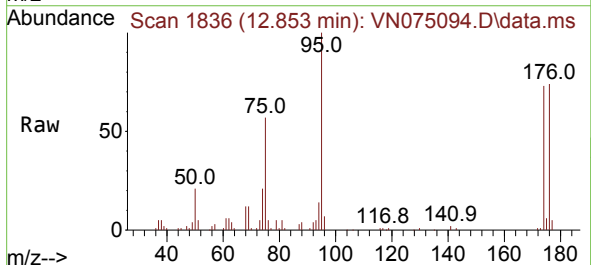
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

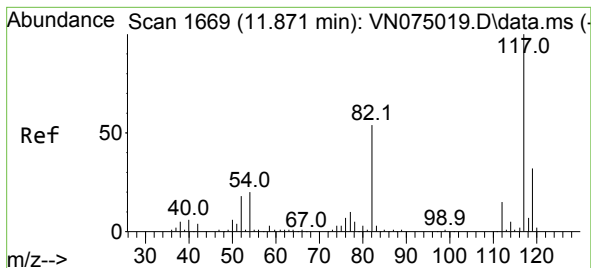
Tgt Ion: 43 Resp: 65119
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 47.971 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 95 Resp: 75320
Ion Ratio Lower Upper
95 100
174 73.3 0.0 147.4
176 71.6 0.0 142.2

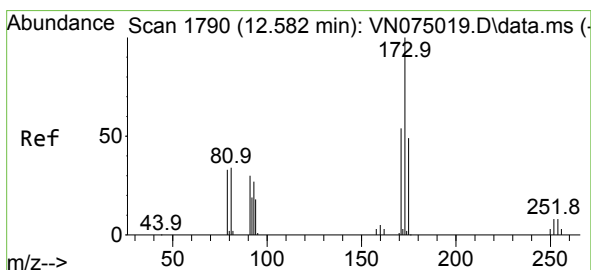
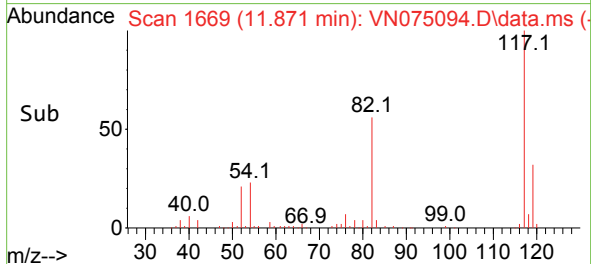
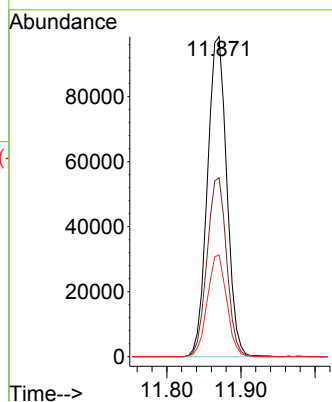
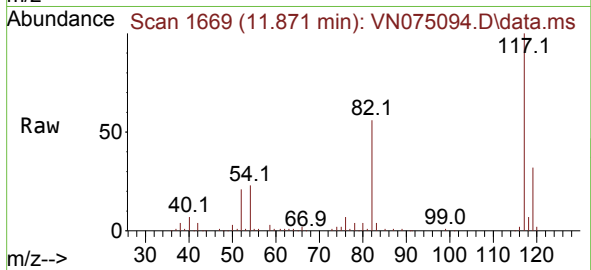




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

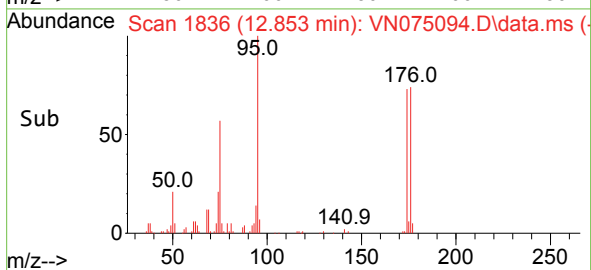
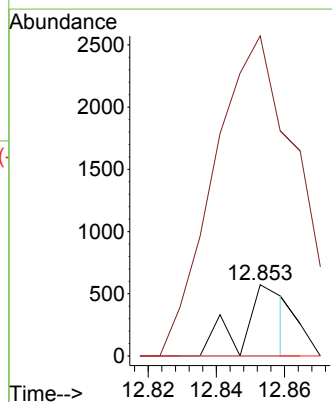
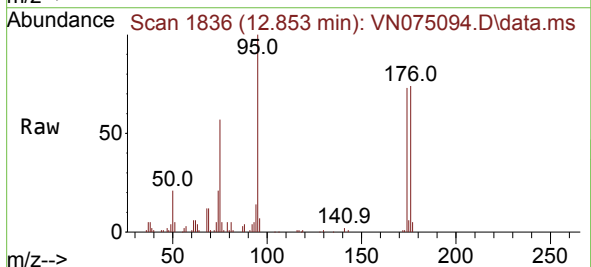
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

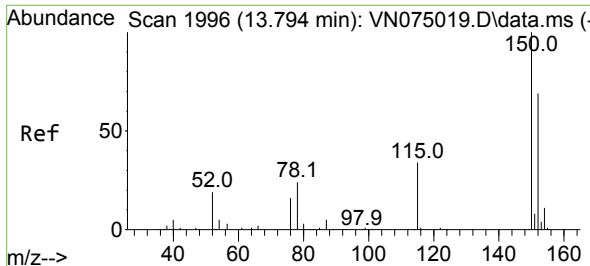
Tgt Ion:117 Resp: 178572
Ion Ratio Lower Upper
117 100
82 55.9 43.1 64.7
119 31.8 25.5 38.3



#71
Bromoform
Concen: 0.462 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion:173 Resp: 489
Ion Ratio Lower Upper
173 100
175 706.7 24.6 74.0#
254 0.0 0.0 0.0

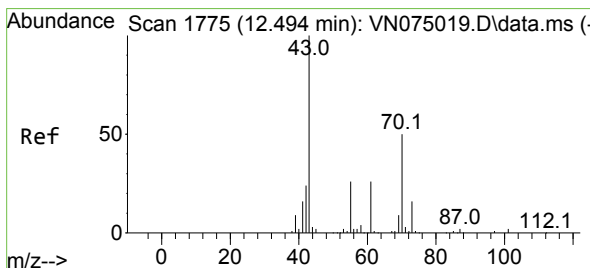
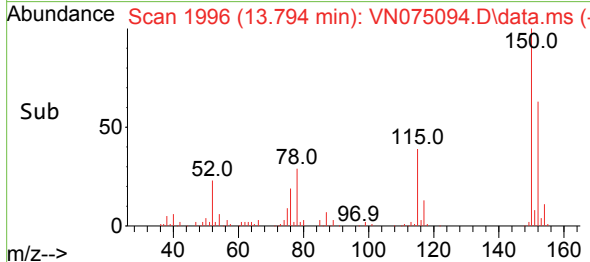
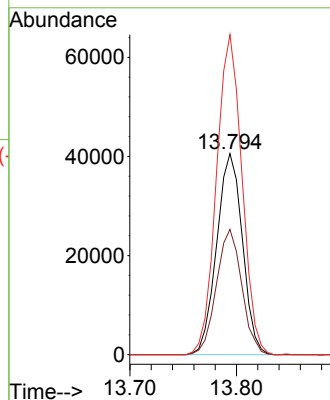
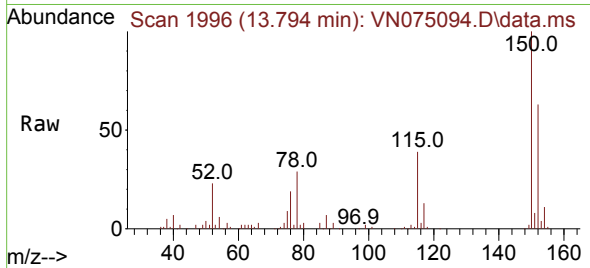




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

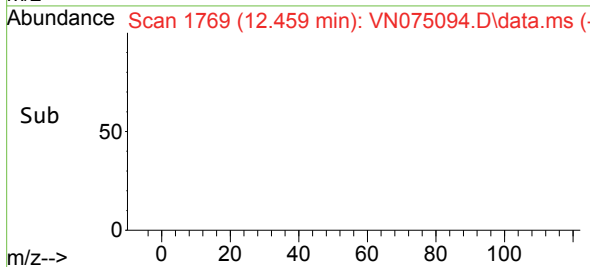
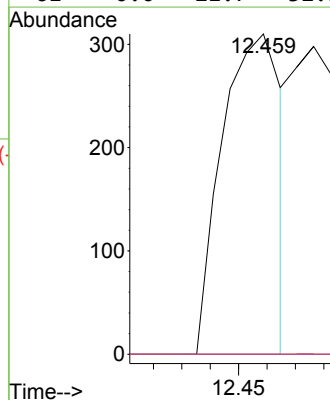
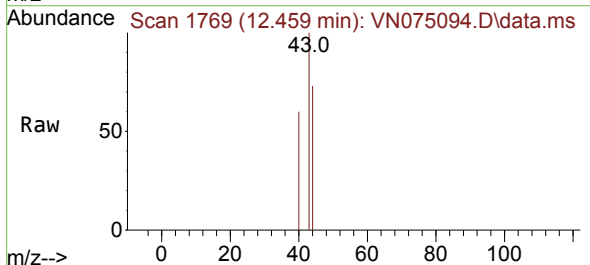
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

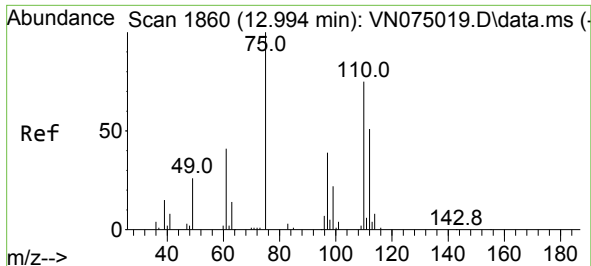
Tgt Ion:152 Resp: 68069
Ion Ratio Lower Upper
152 100
115 61.4 30.2 90.6
150 157.5 0.0 348.4



#74
N-ethyl acetate
Concen: 0.222 ug/l
RT: 12.459 min Scan# 1769
Delta R.T. -0.035 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
70 0.0 39.8 59.8#
55 0.0 19.9 29.9#
61 0.0 21.7 32.5#

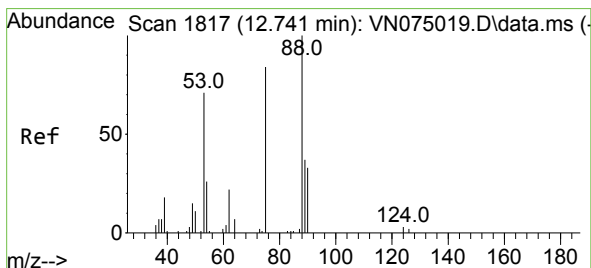
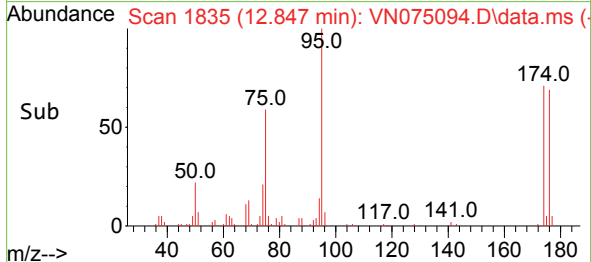
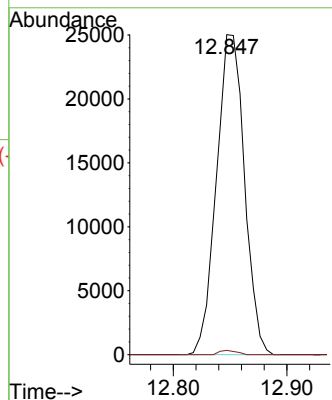
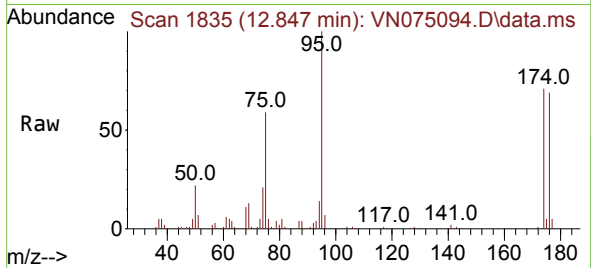




#76
1,2,3-Trichloropropane
Concen: 29.691 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-PILE-2

Tgt Ion: 75 Resp: 42912
Ion Ratio Lower Upper
75 100
77 0.8 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.216 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.106 min
Lab File: VN075094.D
Acq: 31 Oct 2022 18:11

Tgt Ion: 75 Resp: 42912
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#

