

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012423\
 Data File : VN076376.D
 Acq On : 24 Jan 2023 12:25
 Operator : JC\MD
 Sample : 01237-02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3A

Quant Time: Jan 25 00:36:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

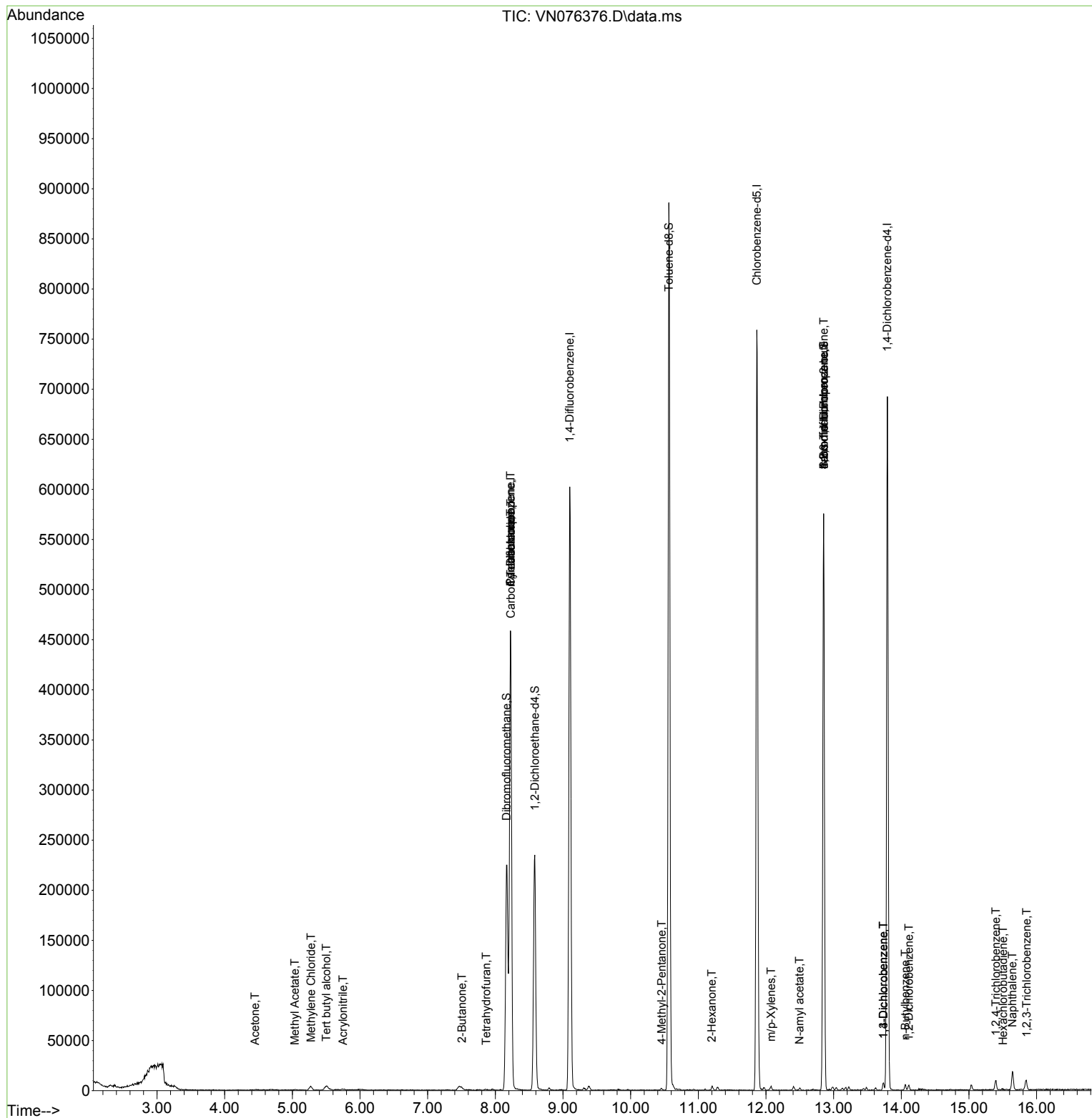
Internal Standards						
1) Pentafluorobenzene	8.224	168	344342	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	549013	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	460635	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	189017	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	193533	50.196	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.400%			
35) Dibromofluoromethane	8.165	113	160930	46.860	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.720%			
50) Toluene-d8	10.565	98	625531	49.319	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.640%			
62) 4-Bromofluorobenzene	12.853	95	189353	45.732	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 91.460%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.500	59	4774	9.257	ug/l #	72
15) Acrylonitrile	5.747	53	769	0.524	ug/l #	44
16) Acetone	4.447	43	393	0.245	ug/l #	41
18) Methyl Acetate	5.036	43	1194	0.285	ug/l #	46
20) Methylene Chloride	5.277	84	2962	0.210	ug/l #	87
25) 2-Butanone	7.506	43	1272	0.674	ug/l #	40
29) Tetrahydrofuran	7.865	42	753	0.646	ug/l #	37
31) Cyclohexane	8.224	56	7102	1.199	ug/l #	20
36) 1,1-Dichloropropene	8.224	75	25888	5.305	ug/l #	50
38) Carbon Tetrachloride	8.229	117	34748	6.385	ug/l #	16
51) 4-Methyl-2-Pentanone	10.459	43	1498	0.401	ug/l #	79
59) 2-Hexanone	11.200	43	2515	0.928	ug/l	100
68) m/p-Xylenes	12.076	106	1505	0.225	ug/l	95
71) Bromoform	12.853	173	1143	0.437	ug/l #	1
74) N-amyl acetate	12.494	43	1342	0.319	ug/l #	79
76) 1,2,3-Trichloropropane	12.853	75	102563	29.395	ug/l #	1
77) Bromobenzene	12.988	156	807	Below Cal		96
81) trans-1,4-Dichloro-2-b...	12.853	75	102563	90.281	ug/l #	11
87) 1,3-Dichlorobenzene	13.735	146	2659	0.386	ug/l	97
88) 1,4-Dichlorobenzene	13.735	146	2659	0.506	ug/l	96
89) n-Butylbenzene	14.059	91	3951	0.400	ug/l	92
91) 1,2-Dichlorobenzene	14.111	146	2642	0.385	ug/l	97
93) 1,2,4-Trichlorobenzene	15.400	180	4012	2.483	ug/l	98
94) Hexachlorobutadiene	15.506	225	384	0.211	ug/l #	30
95) Naphthalene	15.641	128	17897	3.594	ug/l	99
96) 1,2,3-Trichlorobenzene	15.853	180	4331	2.492	ug/l	94

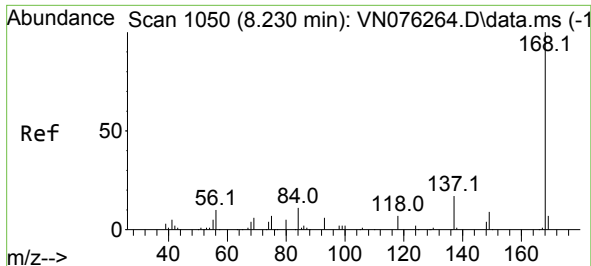
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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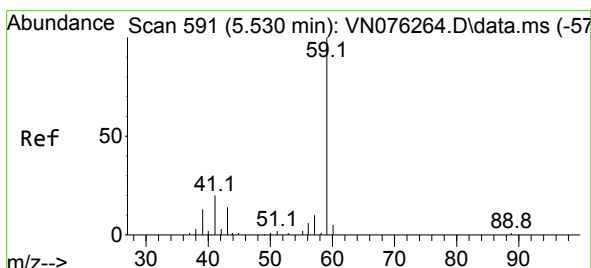
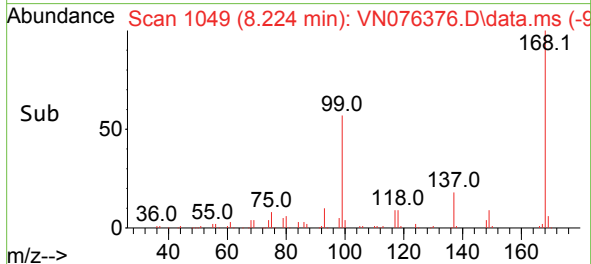
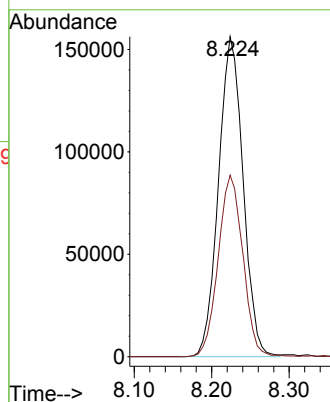
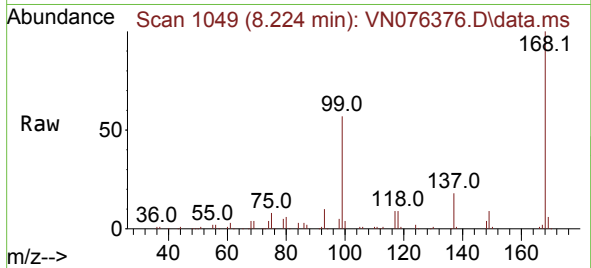




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.006 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

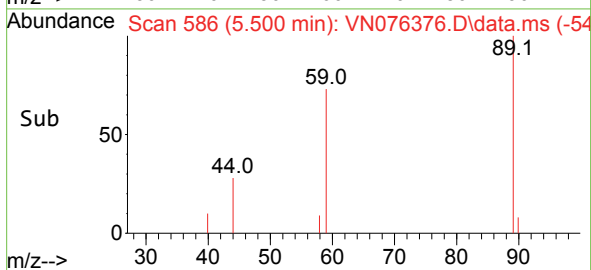
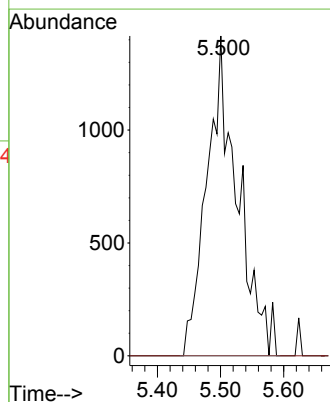
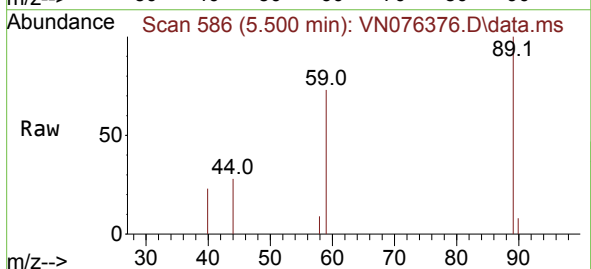
Instrument :
MSVOA_N
ClientSampleId :
3A

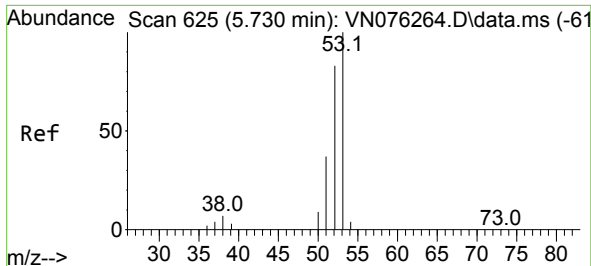
Tgt Ion:168 Resp: 344342
Ion Ratio Lower Upper
168 100
99 56.7 41.6 62.4



#11
Tert butyl alcohol
Concen: 9.257 ug/l
RT: 5.500 min Scan# 586
Delta R.T. -0.030 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 59 Resp: 4774
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

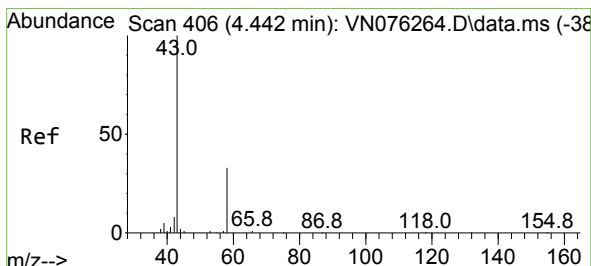
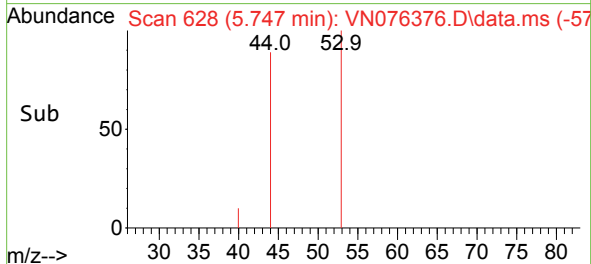
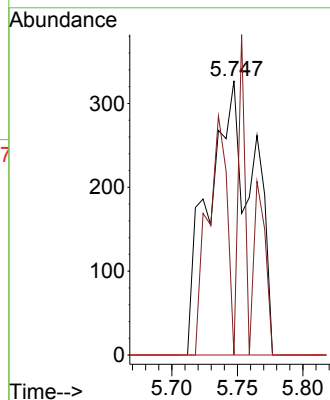
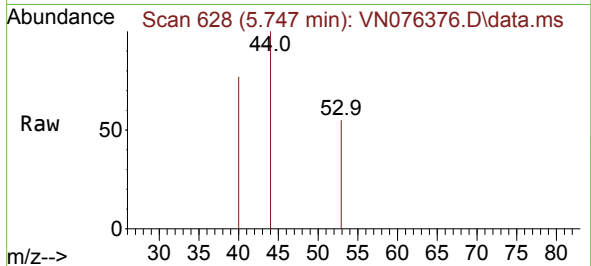




#15
Acrylonitrile
Concen: 0.524 ug/l
RT: 5.747 min Scan# 61
Delta R.T. 0.017 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

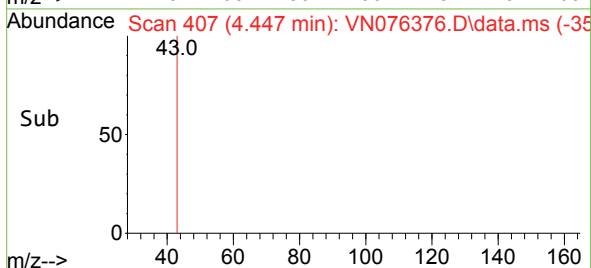
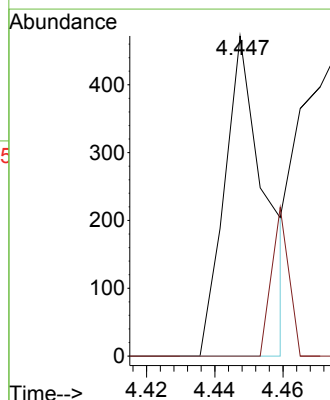
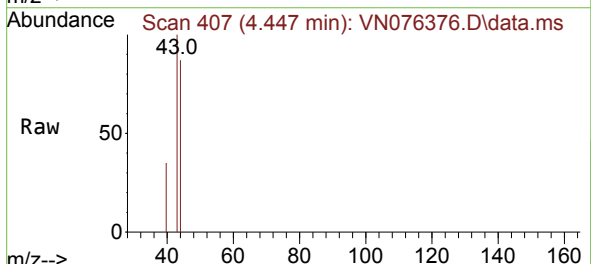
Instrument :
MSVOA_N
ClientSampleId :
3A

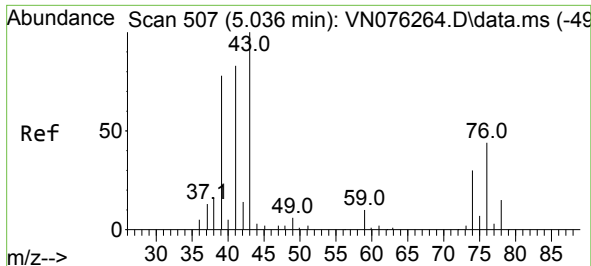
Tgt Ion: 53 Resp: 769
Ion Ratio Lower Upper
53 100
52 33.9 64.7 97.1#
51 0.0 29.2 43.8#



#16
Acetone
Concen: 0.245 ug/l
RT: 4.447 min Scan# 407
Delta R.T. 0.005 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 43 Resp: 393
Ion Ratio Lower Upper
43 100
58 0.0 26.7 40.1#

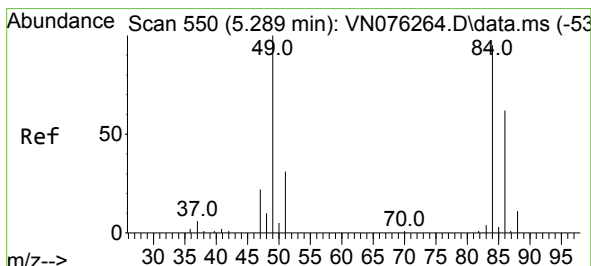
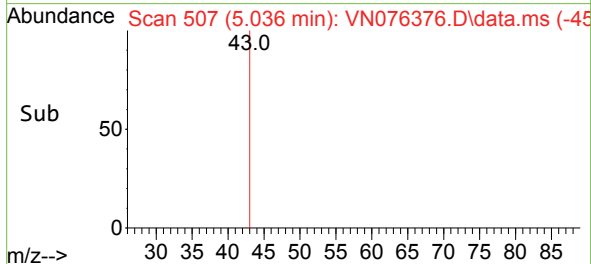
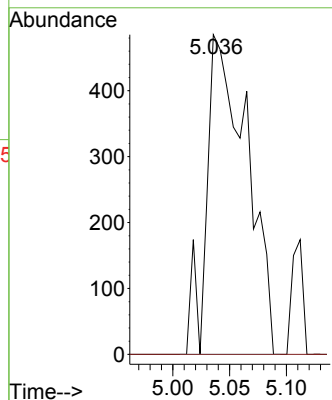
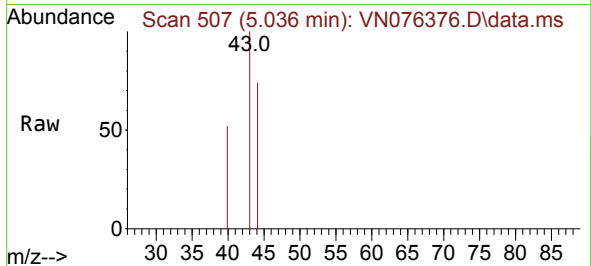




#18
Methyl Acetate
Concen: 0.285 ug/l
RT: 5.036 min Scan# 507
Delta R.T. -0.000 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

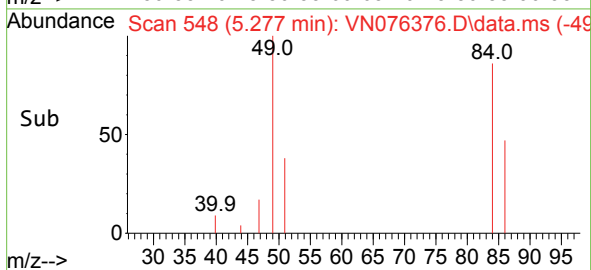
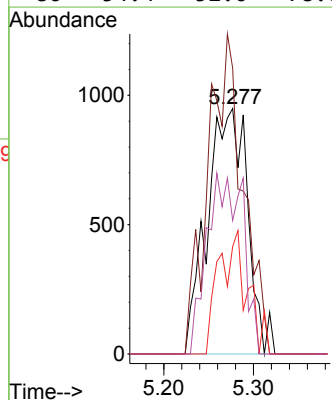
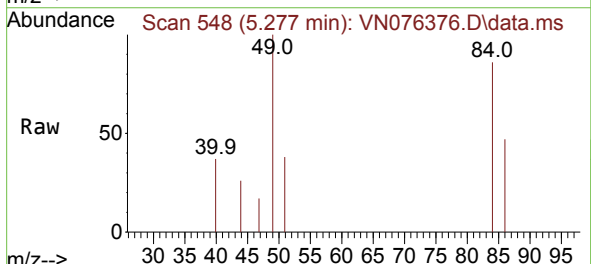
Instrument :
MSVOA_N
ClientSampleId :
3A

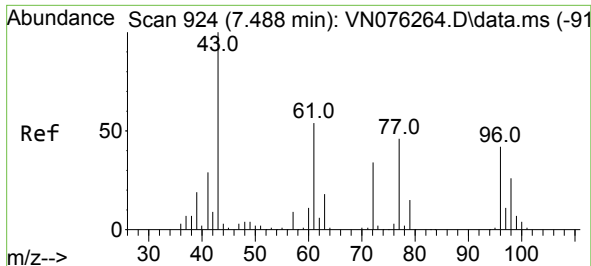
Tgt Ion: 43 Resp: 1194
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#



#20
Methylene Chloride
Concen: 0.210 ug/l
RT: 5.277 min Scan# 548
Delta R.T. -0.012 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 84 Resp: 2962
Ion Ratio Lower Upper
84 100
49 116.3 84.5 126.7
51 43.7 26.0 39.0#
86 54.4 52.0 78.0

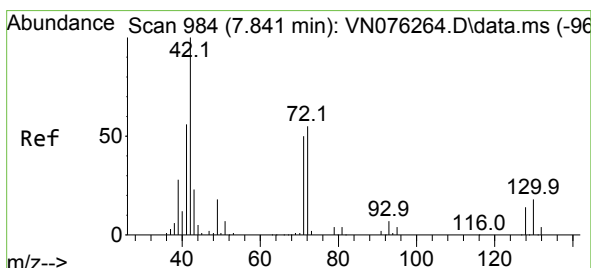
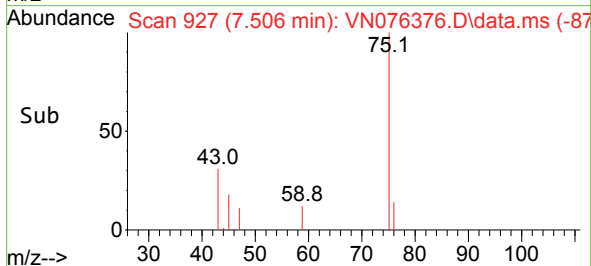
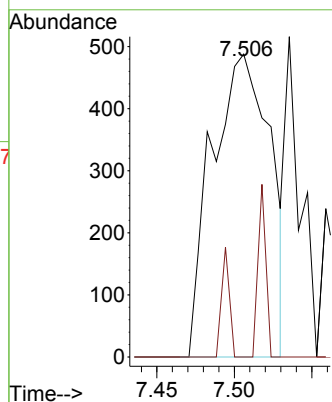
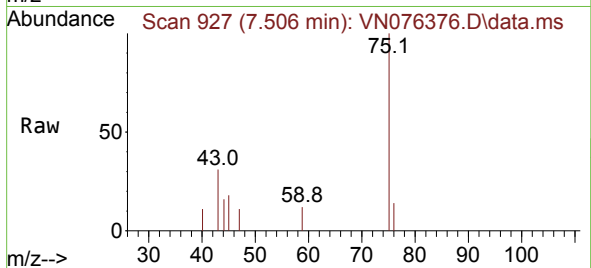




#25
2-Butanone
Concen: 0.674 ug/l
RT: 7.506 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

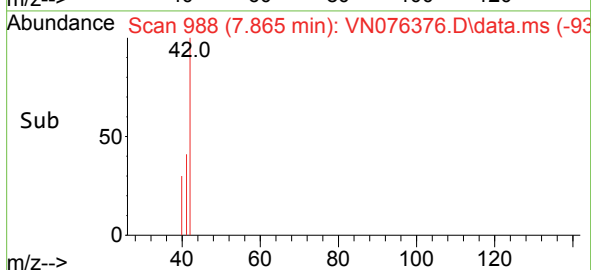
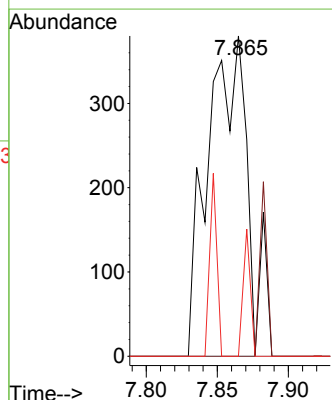
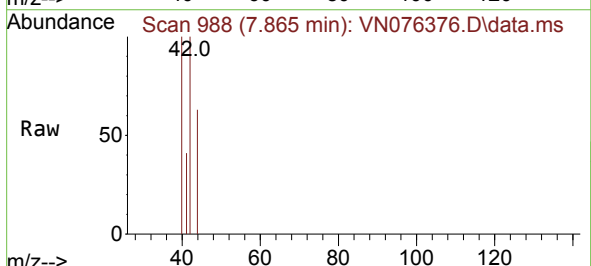
Instrument :
MSVOA_N
ClientSampleId :
3A

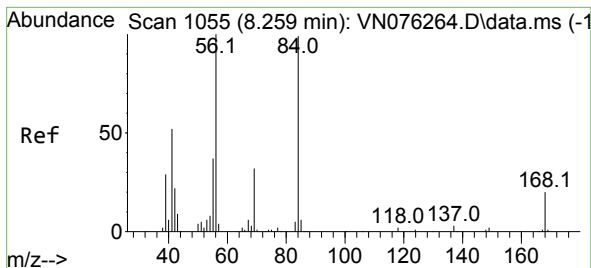
Tgt Ion: 43 Resp: 1272
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#29
Tetrahydrofuran
Concen: 0.646 ug/l
RT: 7.865 min Scan# 988
Delta R.T. 0.024 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 42 Resp: 753
Ion Ratio Lower Upper
42 100
72 9.7 44.0 66.0#
71 7.0 41.1 61.7#





#31

Cyclohexane

Concen: 1.199 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.035 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

Instrument :

MSVOA_N

ClientSampleId :

3A

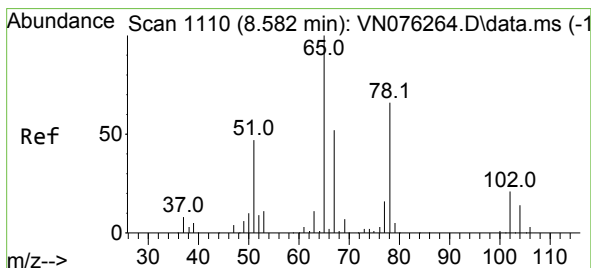
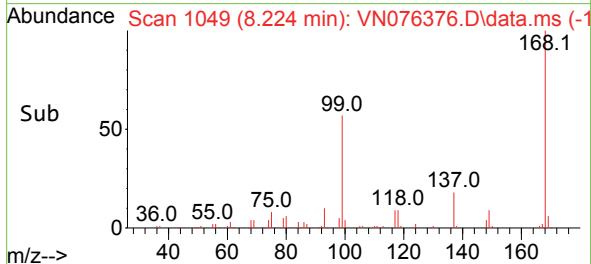
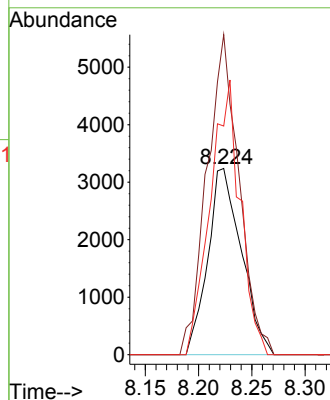
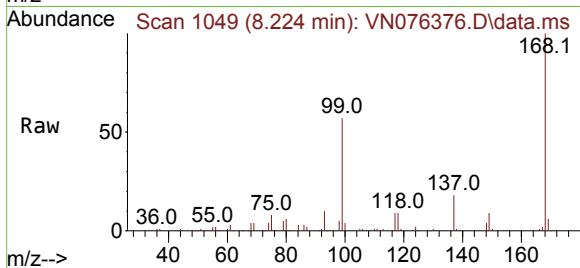
Tgt Ion: 56 Resp: 7102

Ion Ratio Lower Upper

56 100

69 171.8 25.8 38.8#

84 122.8 79.0 118.4#



#33

1,2-Dichloroethane-d4

Concen: 50.196 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076376.D

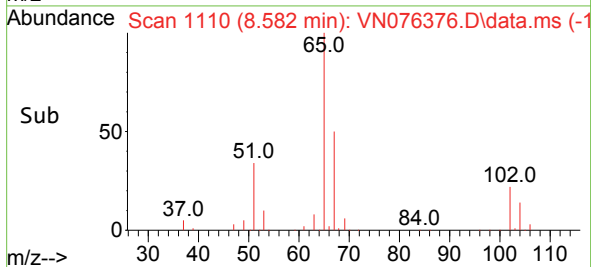
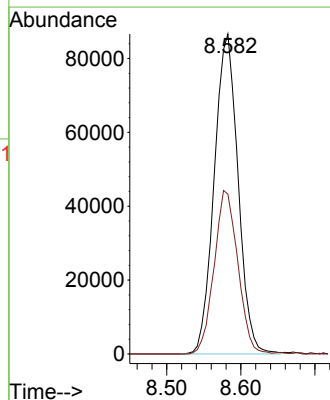
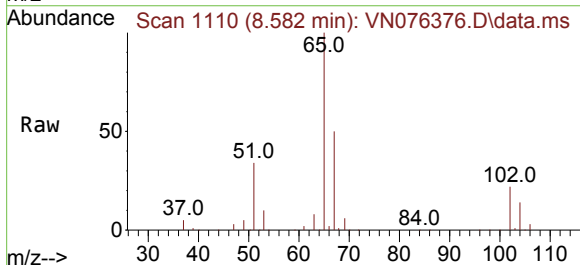
Acq: 24 Jan 2023 12:25

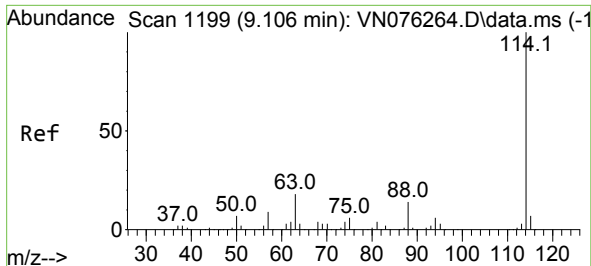
Tgt Ion: 65 Resp: 193533

Ion Ratio Lower Upper

65 100

67 50.9 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1199

Delta R.T. -0.006 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

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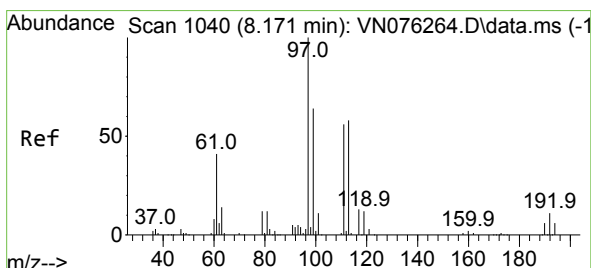
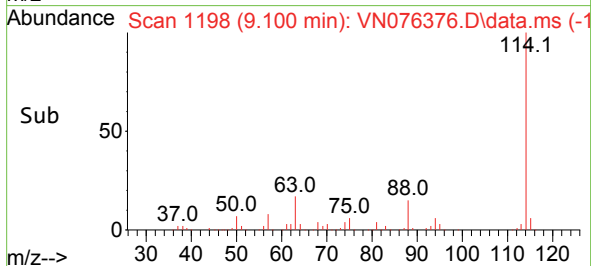
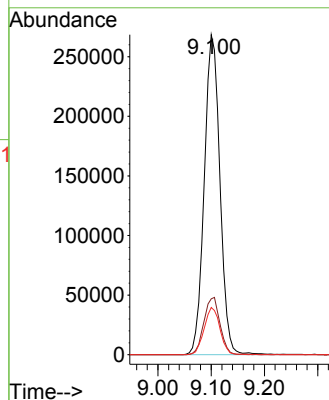
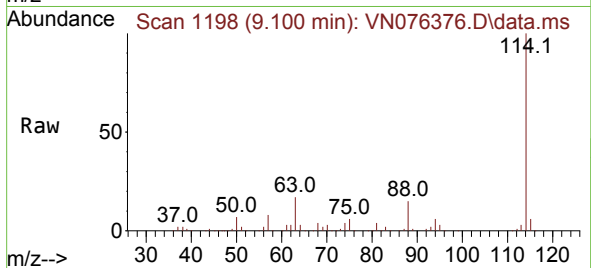
Tgt Ion:114 Resp: 549013

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.8

88 14.8 0.0 28.0



#35

Dibromofluoromethane

Concen: 46.860 ug/l

RT: 8.165 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

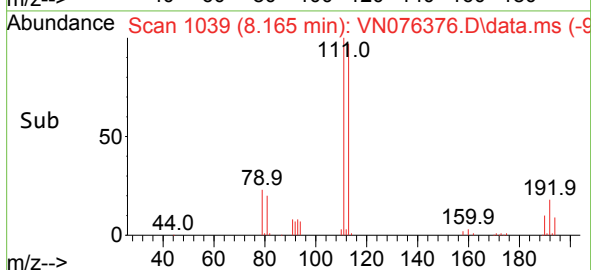
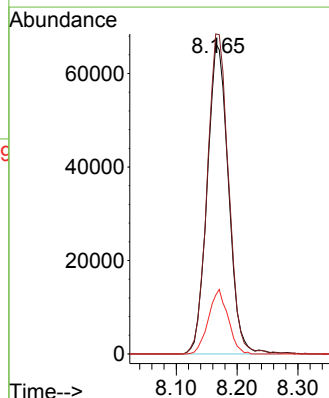
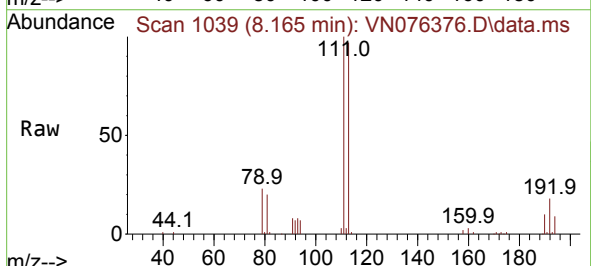
Tgt Ion:113 Resp: 160930

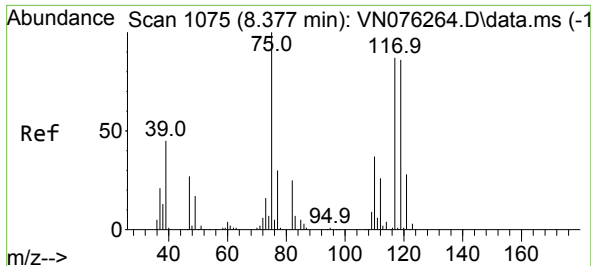
Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

192 19.2 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.305 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.153 min

Lab File: VN076376.D

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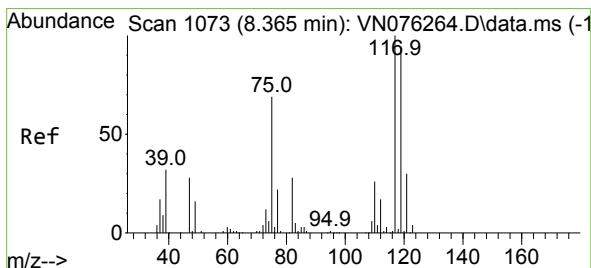
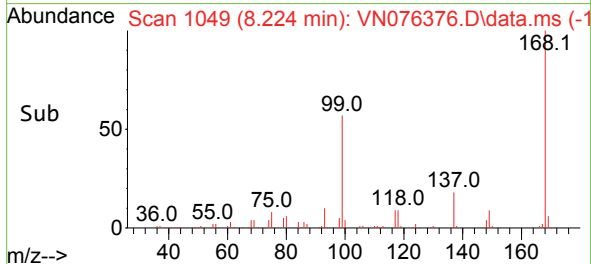
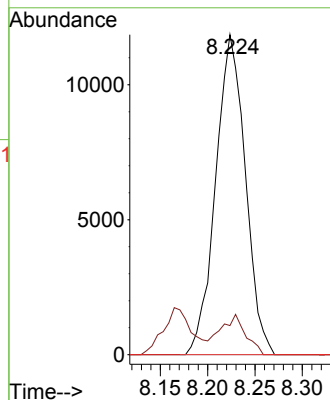
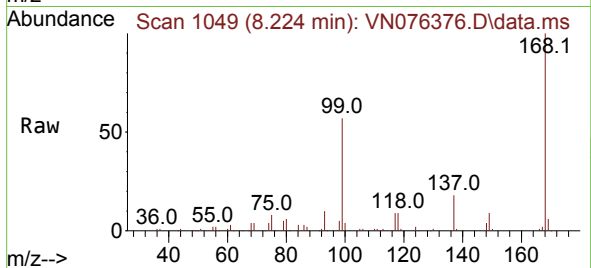
Tgt Ion: 75 Resp: 25888

Ion Ratio Lower Upper

75 100

110 10.6 18.8 56.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.385 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.136 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

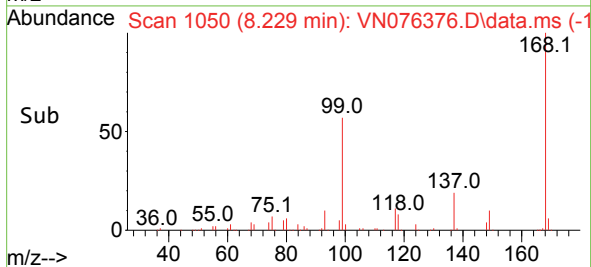
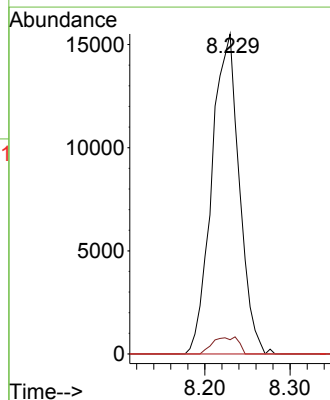
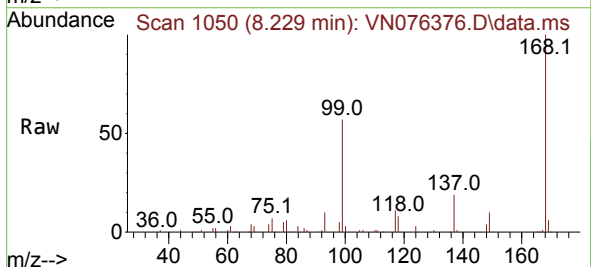
Tgt Ion: 117 Resp: 34748

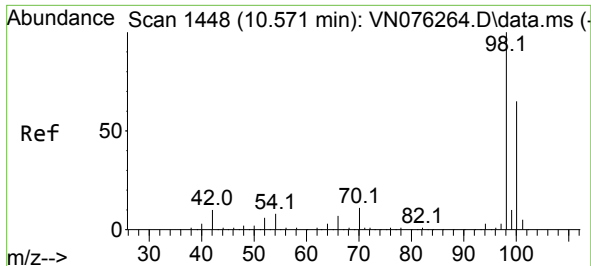
Ion Ratio Lower Upper

117 100

119 4.4 75.4 113.0#

121 0.0 24.2 36.2#

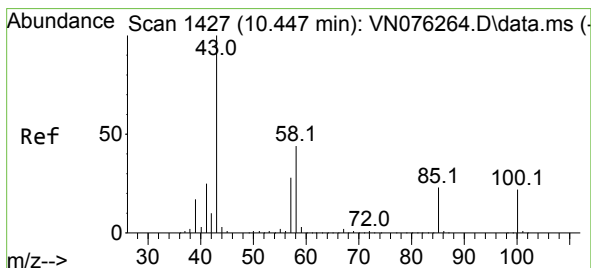
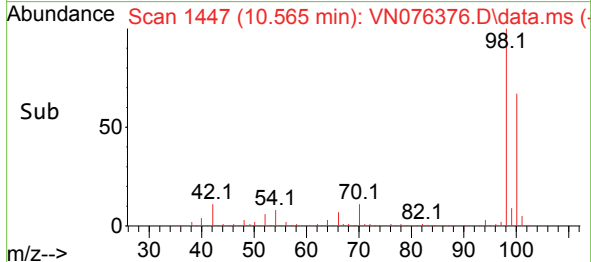
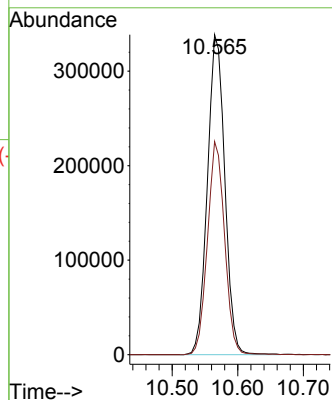
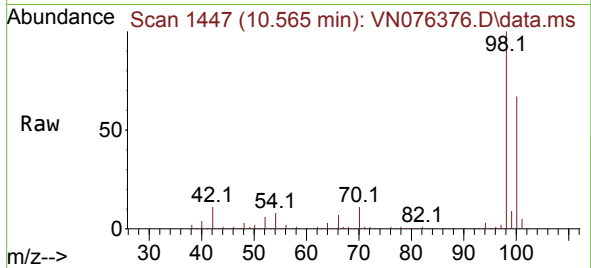




#50
Toluene-d8
Concen: 49.319 ug/l
RT: 10.565 min Scan# 1448
Delta R.T. -0.006 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

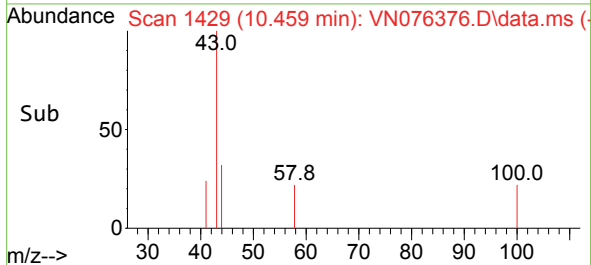
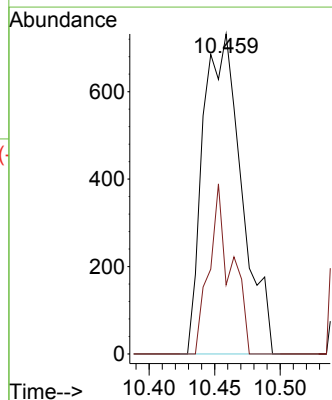
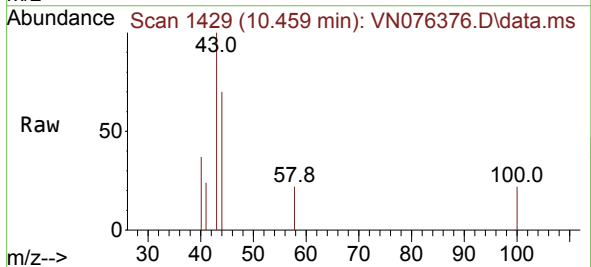
Instrument :
MSVOA_N
ClientSampleId :
3A

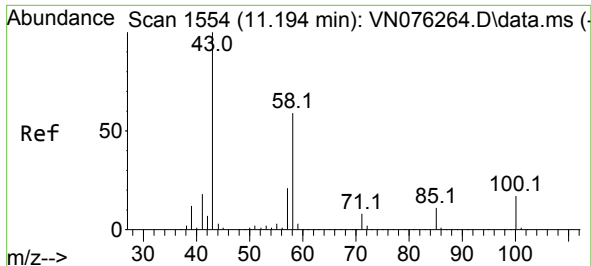
Tgt Ion: 98 Resp: 625531
Ion Ratio Lower Upper
98 100
100 65.7 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.401 ug/l
RT: 10.459 min Scan# 1429
Delta R.T. 0.012 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 43 Resp: 1498
Ion Ratio Lower Upper
43 100
58 30.3 35.1 52.7#

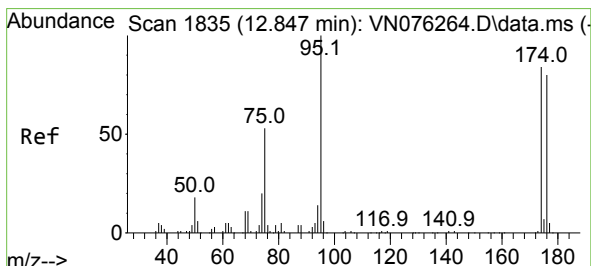
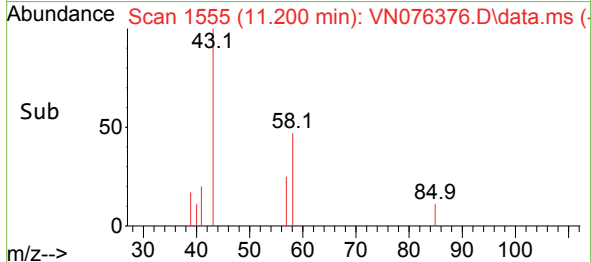
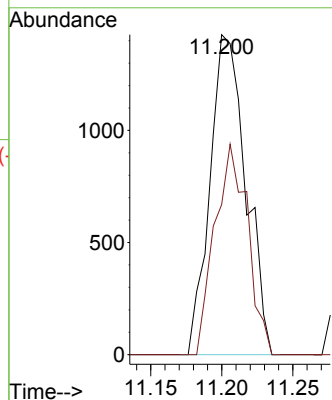
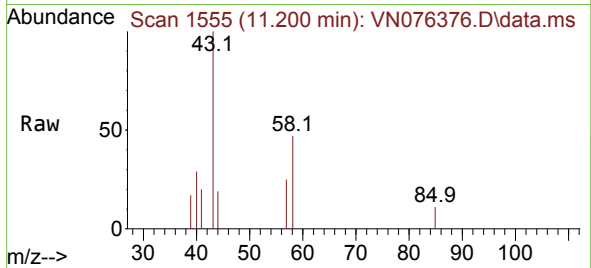




#59
2-Hexanone
Concen: 0.928 ug/l
RT: 11.200 min Scan# 1155
Delta R.T. 0.006 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

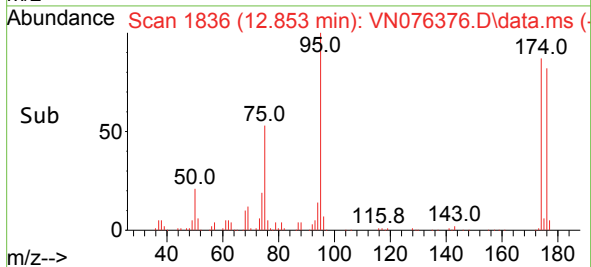
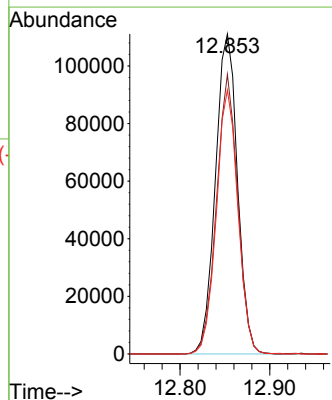
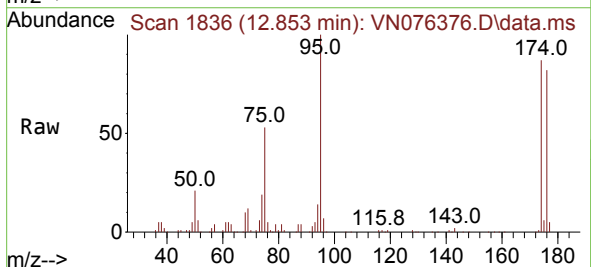
Instrument :
MSVOA_N
ClientSampleId :
3A

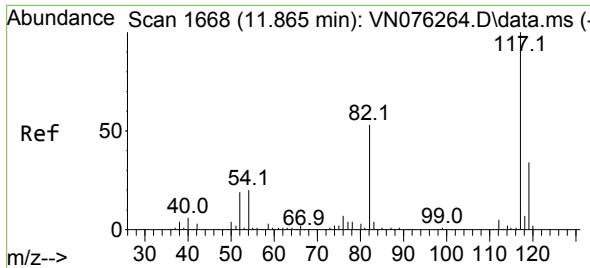
Tgt Ion: 43 Resp: 2515
Ion Ratio Lower Upper
43 100
58 59.9 30.1 90.3



#62
4-Bromofluorobenzene
Concen: 45.732 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 95 Resp: 189353
Ion Ratio Lower Upper
95 100
174 84.3 0.0 174.6
176 80.7 0.0 167.8

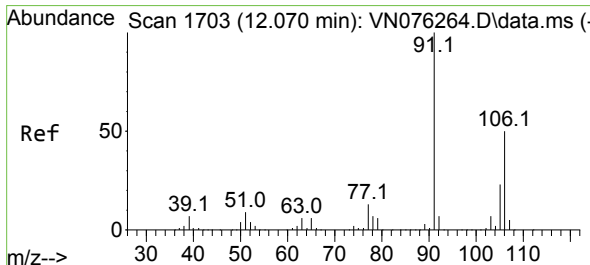
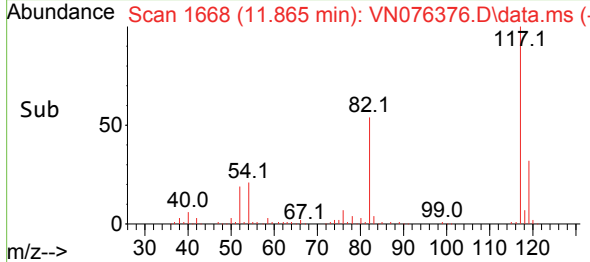
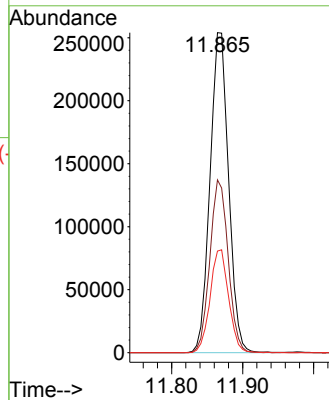
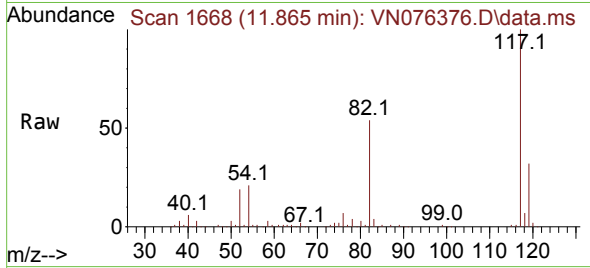




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

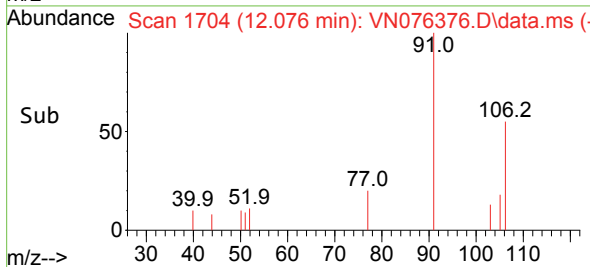
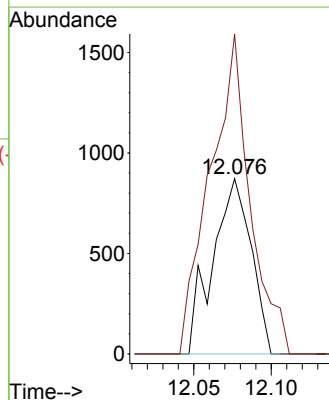
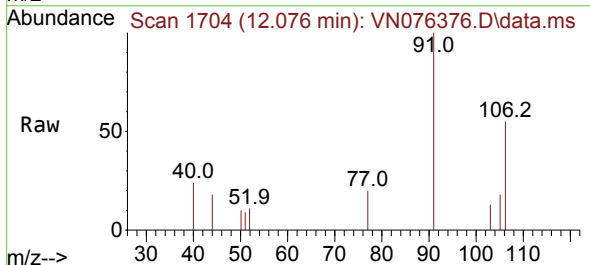
Instrument :
MSVOA_N
ClientSampleId :
3A

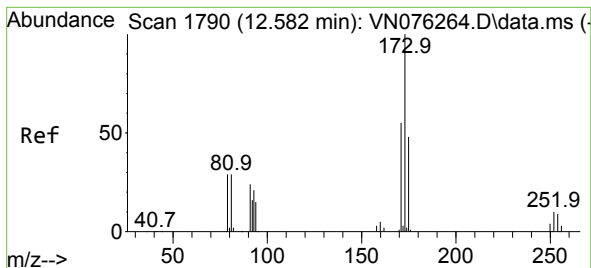
Tgt Ion:117 Resp: 460635
Ion Ratio Lower Upper
117 100
82 54.0 42.2 63.2
119 31.8 26.9 40.3



#68
m/p-Xylenes
Concen: 0.225 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. 0.006 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion:106 Resp: 1505
Ion Ratio Lower Upper
106 100
91 189.0 157.5 236.3





#71

Bromoform

Concen: 0.437 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

Instrument :

MSVOA_N

ClientSampleId :

3A

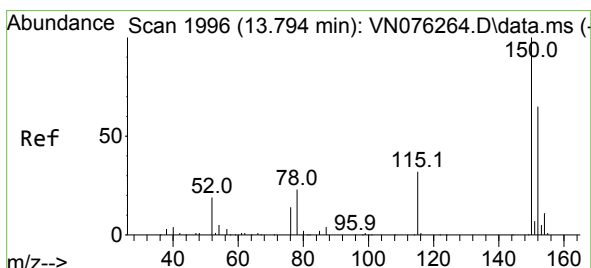
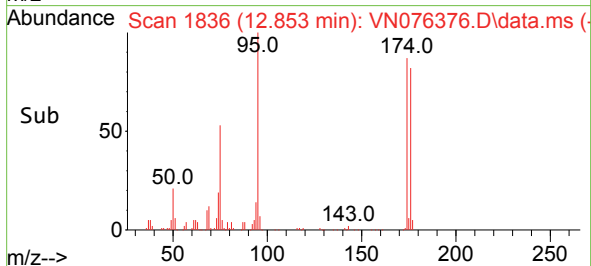
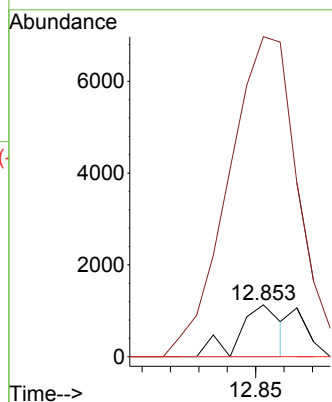
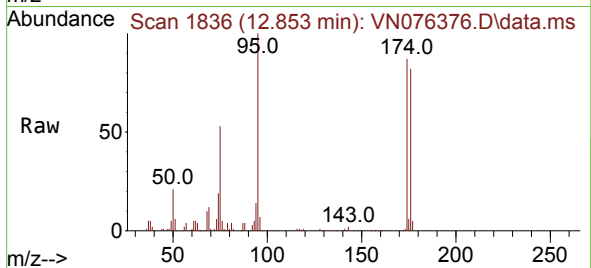
Tgt Ion:173 Resp: 1143

Ion Ratio Lower Upper

173 100

175 845.1 24.1 72.4#

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: VN076376.D

Acq: 24 Jan 2023 12:25

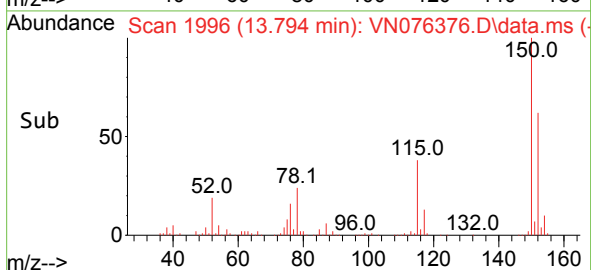
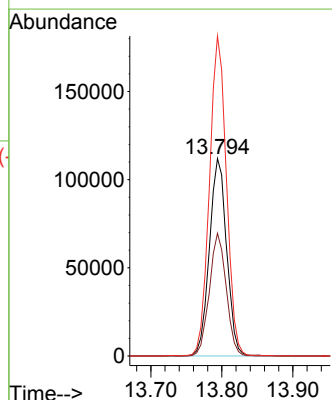
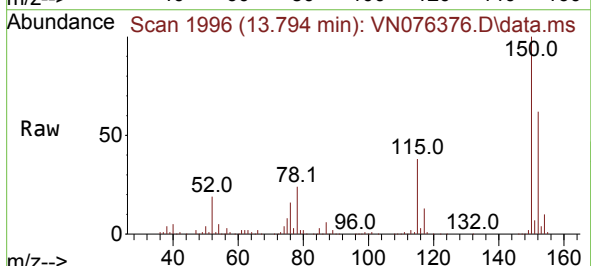
Tgt Ion:152 Resp: 189017

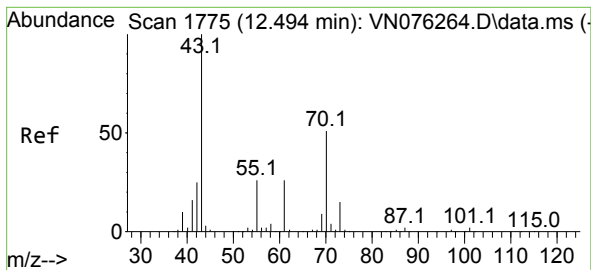
Ion Ratio Lower Upper

152 100

115 60.5 29.6 88.9

150 159.3 0.0 351.4





#74

N-amy1 acetate

Concen: 0.319 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

Instrument :

MSVOA_N

ClientSampleId :

3A

Tgt Ion: 43 Resp: 1342

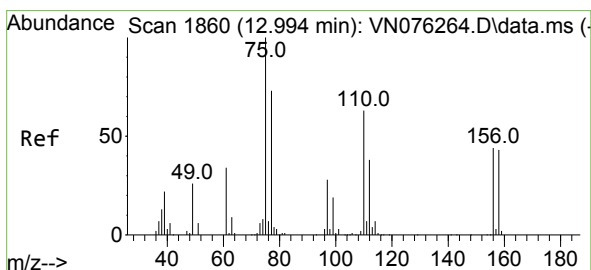
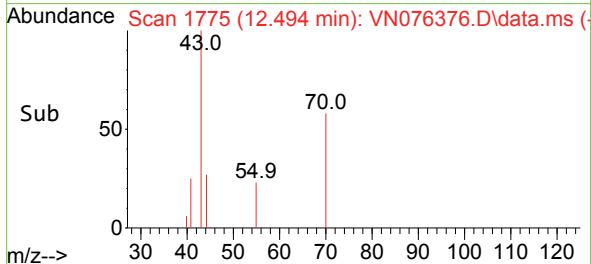
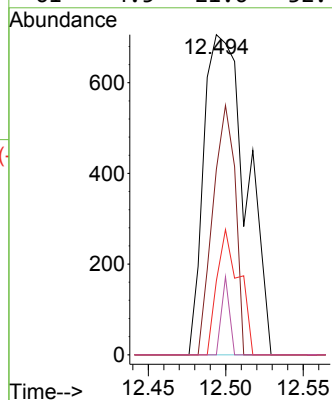
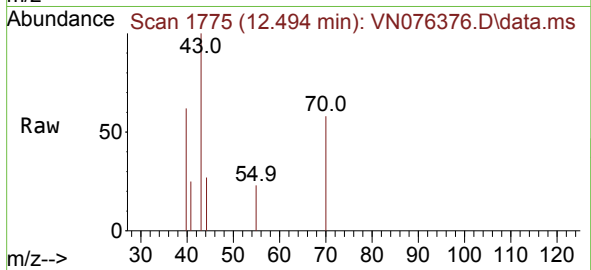
Ion Ratio Lower Upper

43 100

70 41.1 41.2 61.8#

55 20.6 21.0 31.6#

61 4.5 21.6 32.4#



#76

1,2,3-Trichloropropane

Concen: 29.395 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076376.D

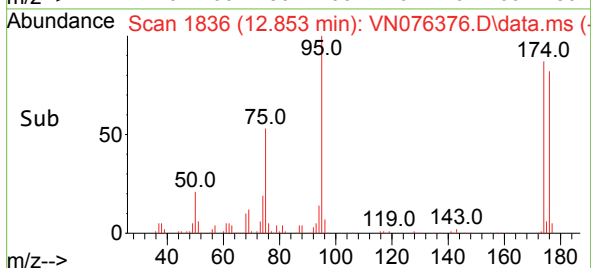
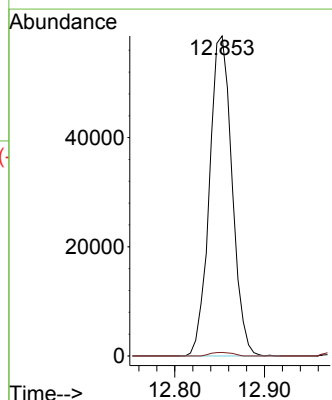
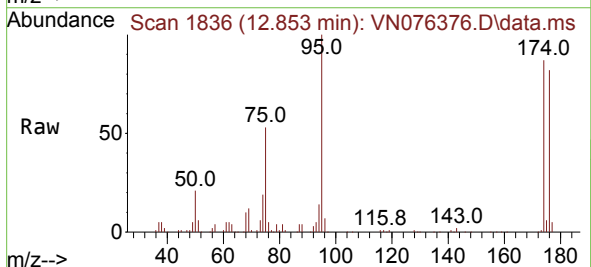
Acq: 24 Jan 2023 12:25

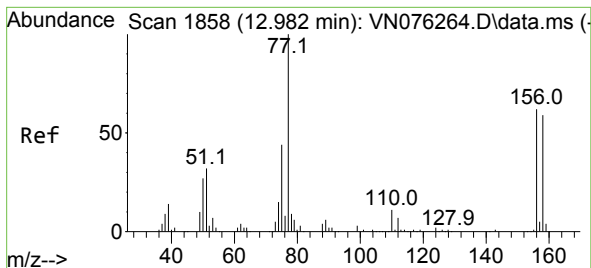
Tgt Ion: 75 Resp: 102563

Ion Ratio Lower Upper

75 100

77 1.1 75.2 225.6#





#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1859

Delta R.T. 0.006 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

Instrument :

MSVOA_N

ClientSampleId :

3A

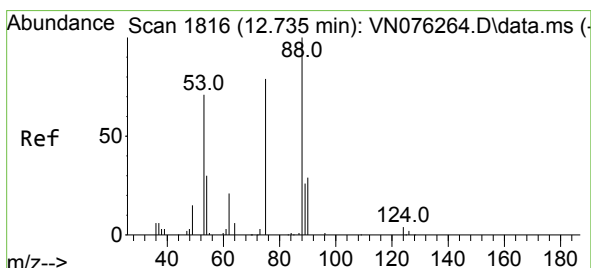
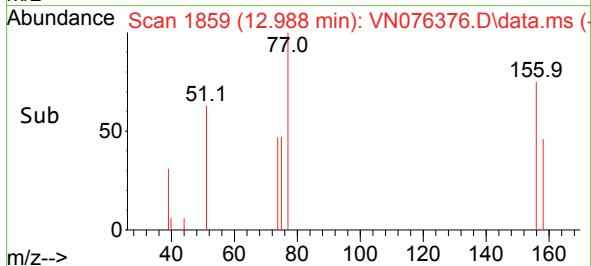
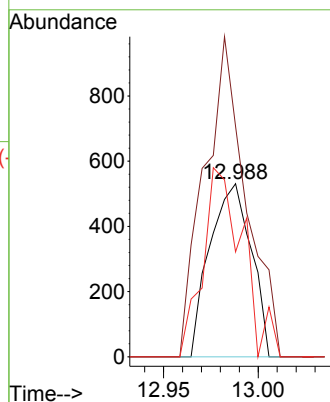
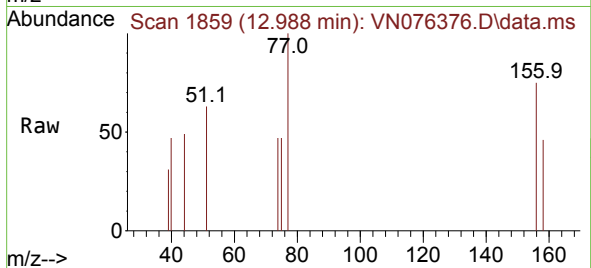
Tgt Ion:156 Resp: 807

Ion Ratio Lower Upper

156 100

77 185.6 93.4 280.2

158 105.5 48.4 145.2



#81

trans-1,4-Dichloro-2-butene

Concen: 90.281 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN076376.D

Acq: 24 Jan 2023 12:25

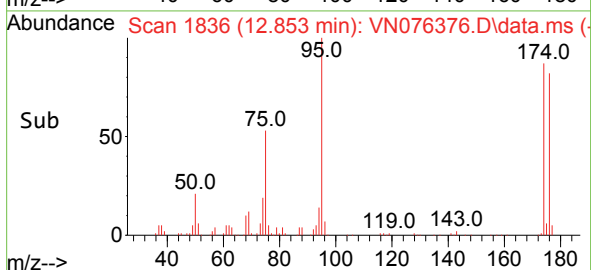
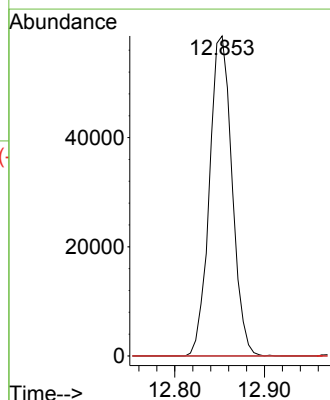
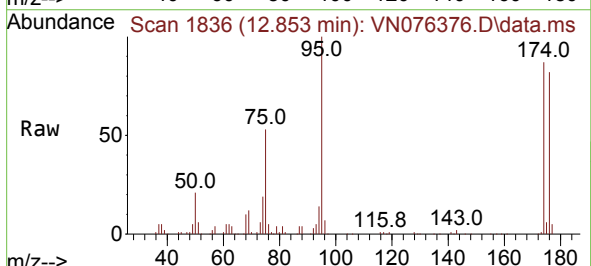
Tgt Ion: 75 Resp: 102563

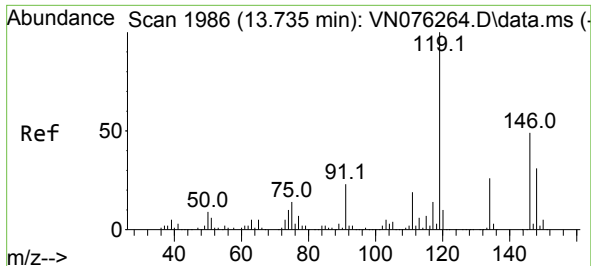
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#

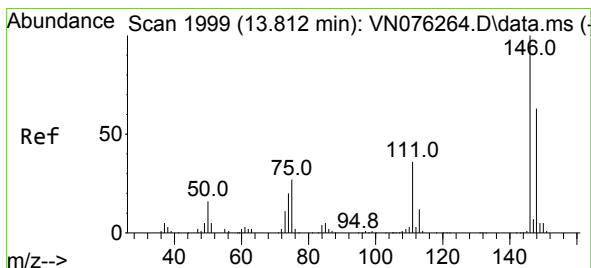
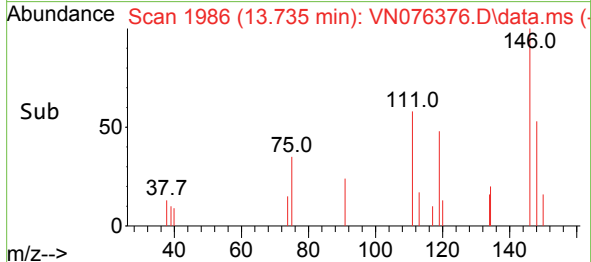
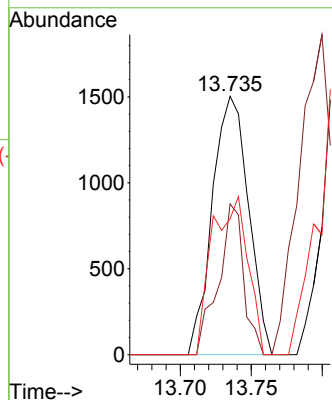
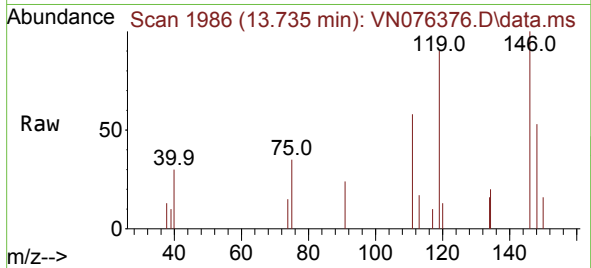




#87
 1,3-Dichlorobenzene
 Concen: 0.386 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. 0.000 min
 Lab File: VN076376.D
 Acq: 24 Jan 2023 12:25

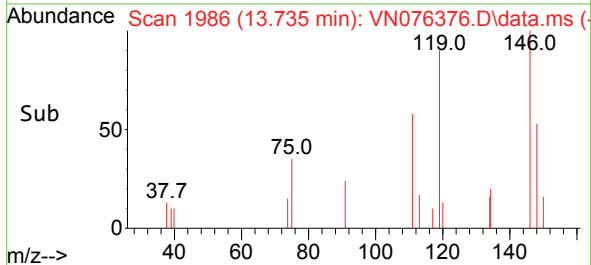
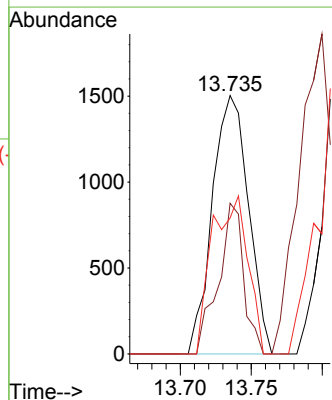
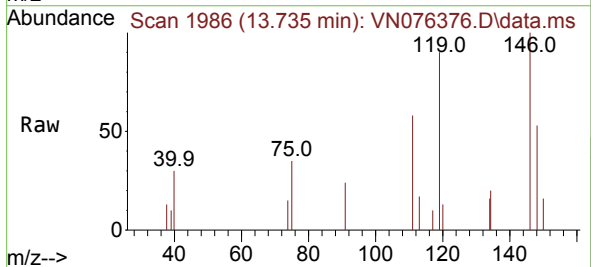
Instrument :
 MSVOA_N
 ClientSampleId :
 3A

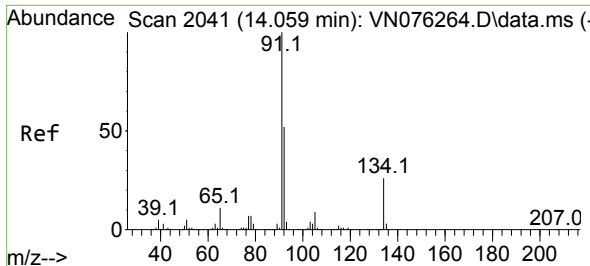
Tgt Ion:146 Resp: 2659
 Ion Ratio Lower Upper
 146 100
 111 40.8 19.9 59.7
 148 60.7 31.6 94.8



#88
 1,4-Dichlorobenzene
 Concen: 0.506 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. -0.077 min
 Lab File: VN076376.D
 Acq: 24 Jan 2023 12:25

Tgt Ion:146 Resp: 2659
 Ion Ratio Lower Upper
 146 100
 111 40.8 19.1 57.5
 148 60.7 31.9 95.9

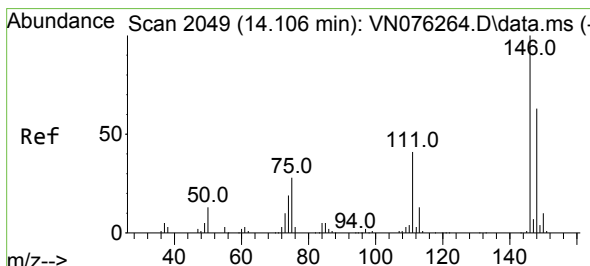
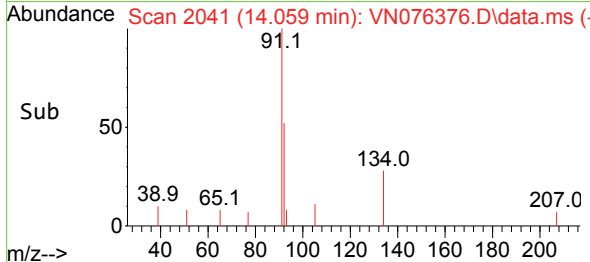
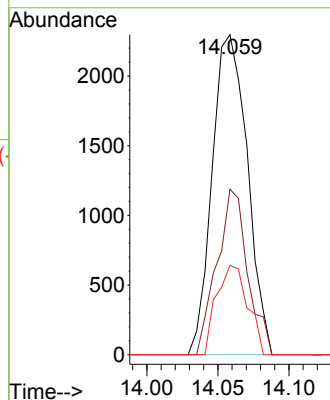
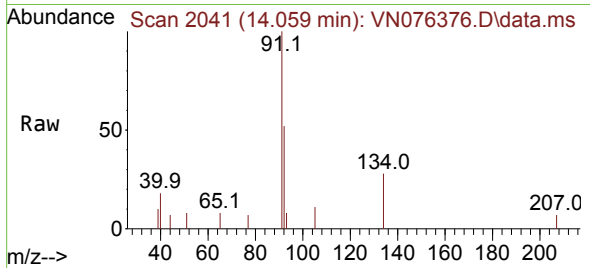




#89
n-Butylbenzene
Concen: 0.400 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

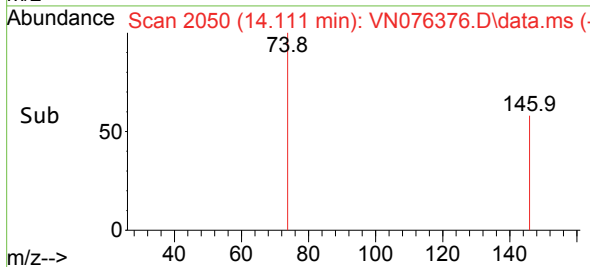
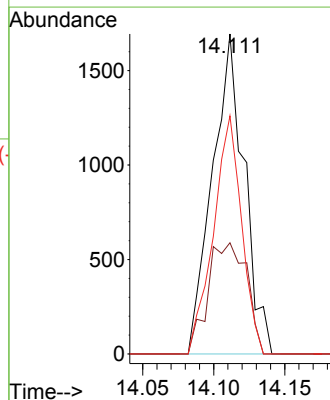
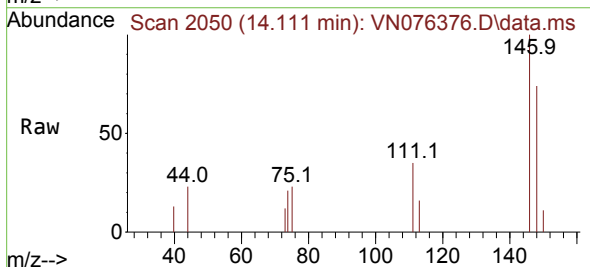
Instrument :
MSVOA_N
ClientSampleId :
3A

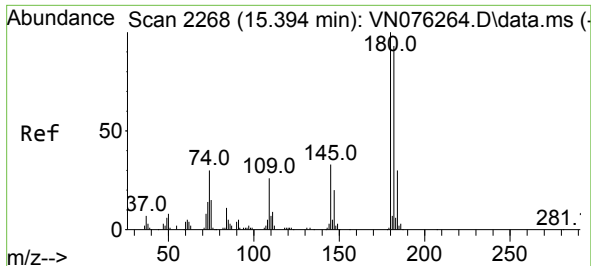
Tgt Ion: 91	Resp:	3951
Ion Ratio	Lower	Upper
91	100	
92	45.3	26.3 78.9
134	24.7	13.2 39.5



#91
1,2-Dichlorobenzene
Concen: 0.385 ug/l
RT: 14.111 min Scan# 2050
Delta R.T. 0.005 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion: 146	Resp:	2642
Ion Ratio	Lower	Upper
146	100	
111	42.4	20.3 60.8
148	65.9	31.8 95.4

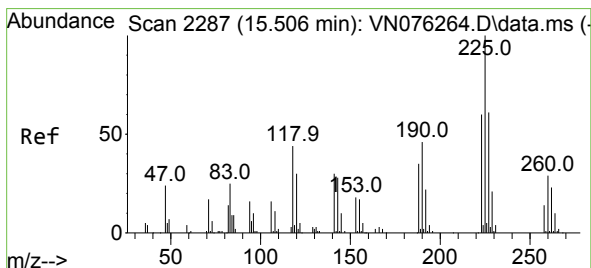
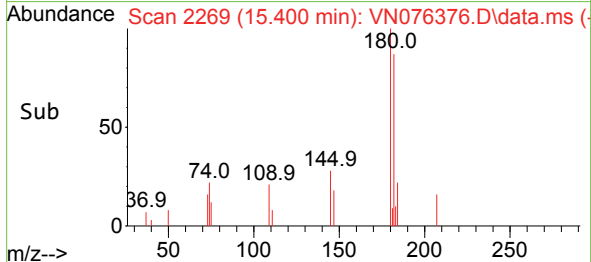
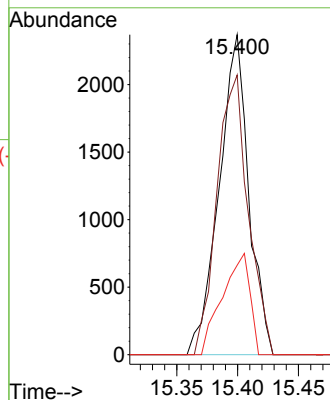
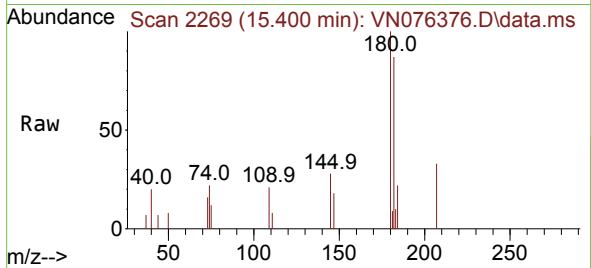




#93
1,2,4-Trichlorobenzene
Concen: 2.483 ug/l
RT: 15.400 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

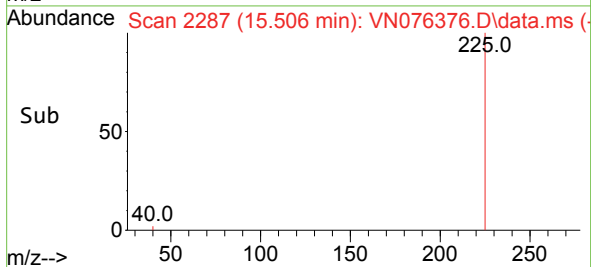
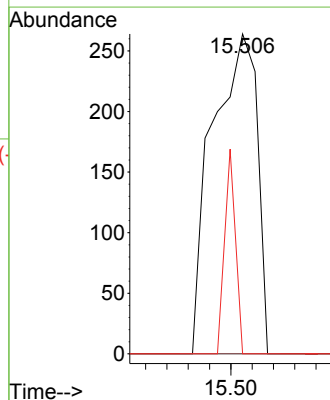
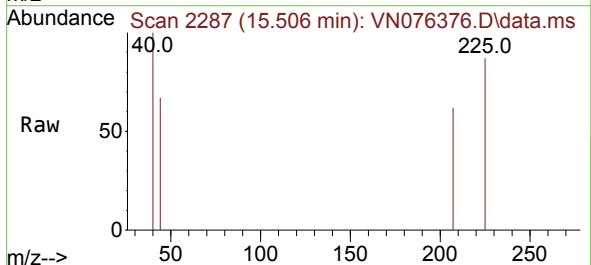
Instrument :
MSVOA_N
ClientSampleId :
3A

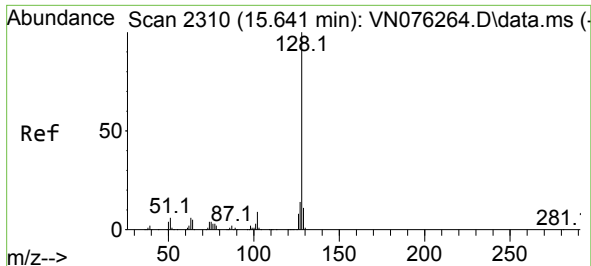
Tgt Ion:180 Resp: 4012
Ion Ratio Lower Upper
180 100
182 92.3 47.0 141.2
145 29.5 15.2 45.5



#94
Hexachlorobutadiene
Concen: 0.211 ug/l
RT: 15.506 min Scan# 2287
Delta R.T. -0.001 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion:225 Resp: 384
Ion Ratio Lower Upper
225 100
223 0.0 30.8 92.3#
227 15.6 30.9 92.8#

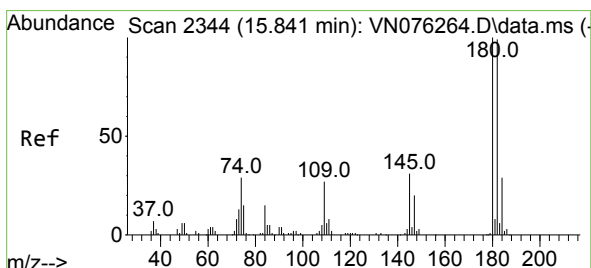
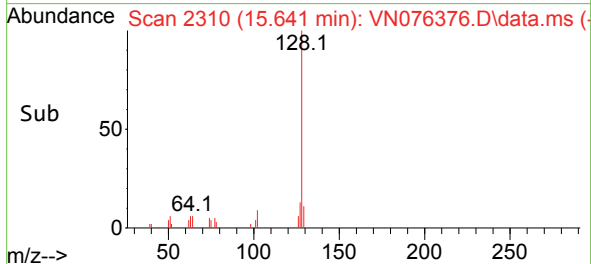
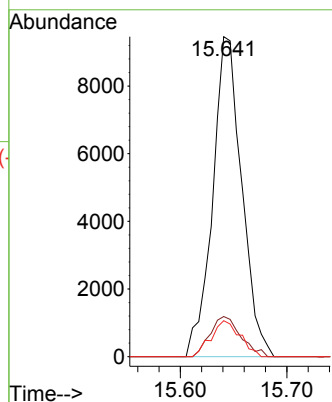
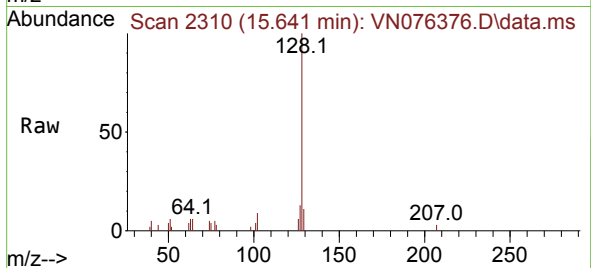




#95
Naphthalene
Concen: 3.594 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Instrument :
MSVOA_N
ClientSampleId :
3A

Tgt Ion:128 Resp: 17897
Ion Ratio Lower Upper
128 100
127 13.3 10.3 15.5
129 11.3 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 2.492 ug/l
RT: 15.853 min Scan# 2346
Delta R.T. 0.012 min
Lab File: VN076376.D
Acq: 24 Jan 2023 12:25

Tgt Ion:180 Resp: 4331
Ion Ratio Lower Upper
180 100
182 89.5 47.5 142.5
145 27.6 15.9 47.6

