

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077018.D
 Acq On : 16 Mar 2023 13:32
 Operator : JC\MD
 Sample : VN0316WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBL01

Quant Time: Mar 17 03:23:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

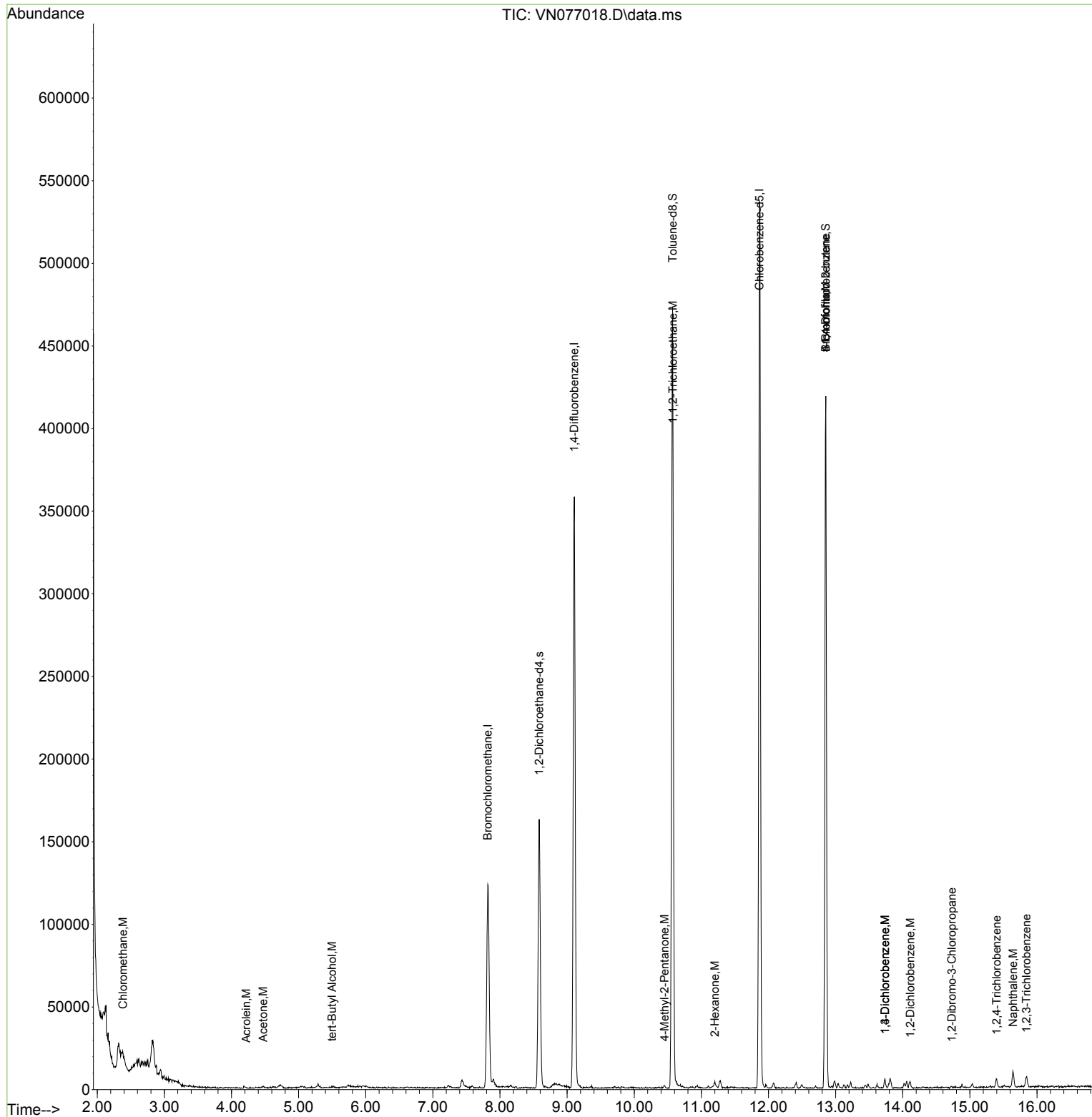
Internal Standards						
1) Bromochloromethane	7.819	128	43531	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	297591	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	312132	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	130367	32.582	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.600%
60) 4-Bromofluorobenzene	12.854	95	151156	25.587	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.300%
63) Toluene-d8	10.571	98	326318	29.723	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.067%
Target Compounds						
					Qvalue	
3) Chloromethane	2.384	50	1330	0.261	ug/l #	77
13) Acrolein	4.219	56	251	0.216	ug/l	94
15) Acetone	4.472	58	221	0.314	ug/l #	1
23) tert-Butyl Alcohol	5.495	59	176	0.235	ug/l #	100
50) 1,1,2-Trichloroethane	10.577	97	10380	2.014	ug/l #	1
56) Bromoform	12.854	173	1066	0.303	ug/l #	1
58) 4-Methyl-2-Pentanone	10.454	43	1287	0.204	ug/l #	75
59) 2-Hexanone	11.201	43	3477	0.776	ug/l #	79
77) t-1,4-Dichloro-2-butene	12.854	75	77917	41.071	ug/l #	9
83) 1,3-Dichlorobenzene	13.736	146	2004	0.214	ug/l	95
84) 1,4-Dichlorobenzene	13.736	146	2004	0.220	ug/l	93
87) 1,2-Dichlorobenzene	14.112	146	1920	0.205	ug/l	81
88) 1,2-Dibromo-3-Chloropr...	14.730	75	367	0.278	ug/l #	15
89) 1,2,4-Trichlorobenzene	15.401	180	2195	0.440	ug/l	95
91) Naphthalene	15.642	128	9738	0.615	ug/l #	73
92) 1,2,3-Trichlorobenzene	15.842	180	2698	0.539	ug/l	75

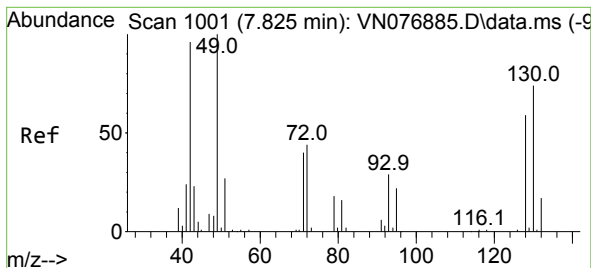
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 09 04:16:54 2023
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.819 min Scan# 10

Delta R.T. -0.006 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBL01

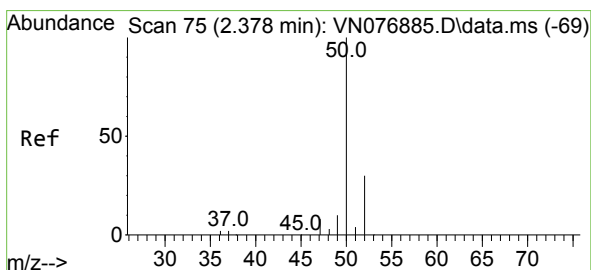
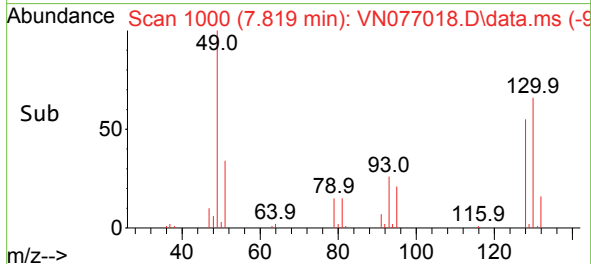
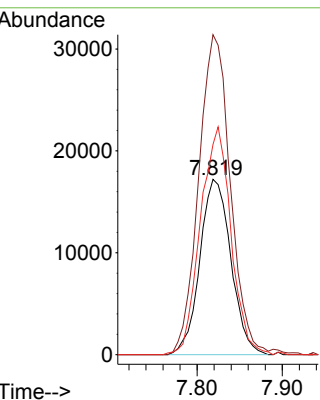
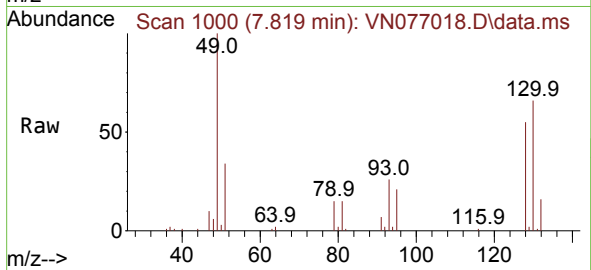
Tgt Ion:128 Resp: 43531

Ion Ratio Lower Upper

128 100

49 185.8 0.0 461.8

130 128.0 0.0 295.3



#3

Chloromethane

Concen: 0.261 ug/l

RT: 2.384 min Scan# 76

Delta R.T. 0.006 min

Lab File: VN077018.D

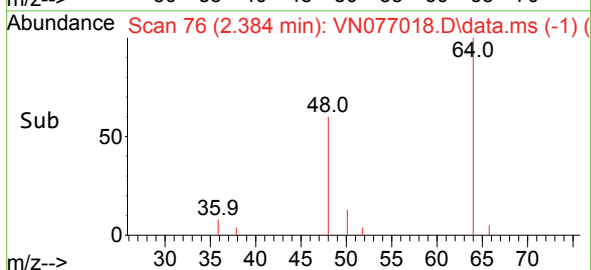
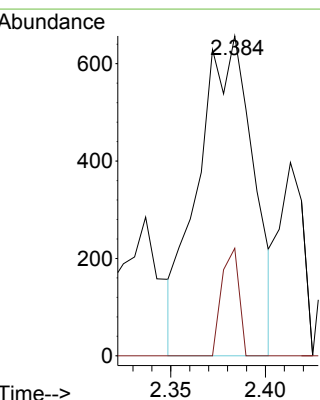
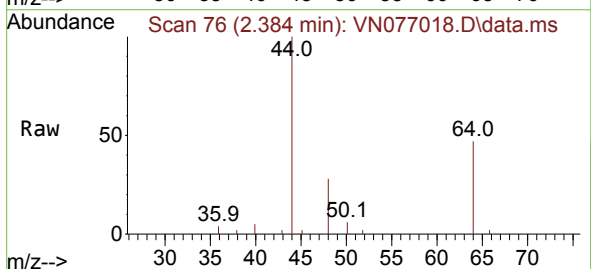
Acq: 16 Mar 2023 13:32

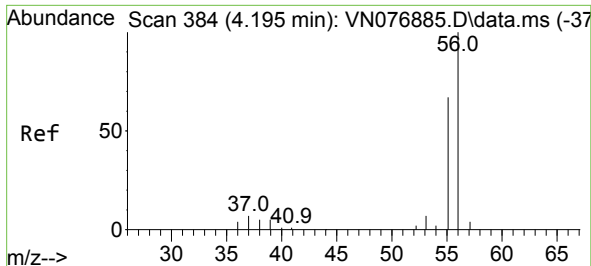
Tgt Ion: 50 Resp: 1330

Ion Ratio Lower Upper

50 100

52 44.2 25.3 37.9#

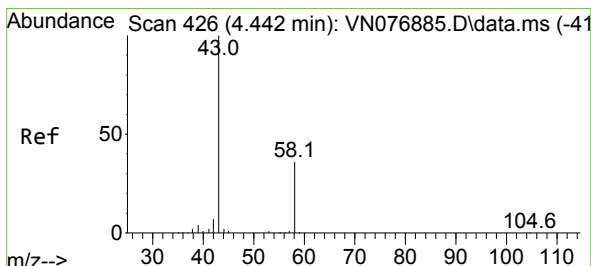
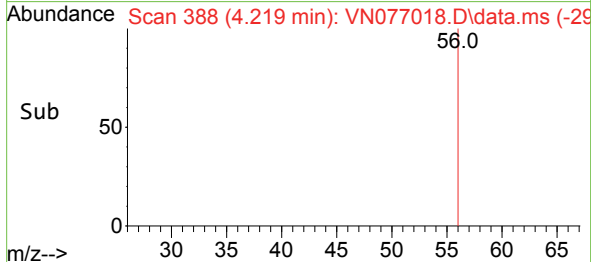
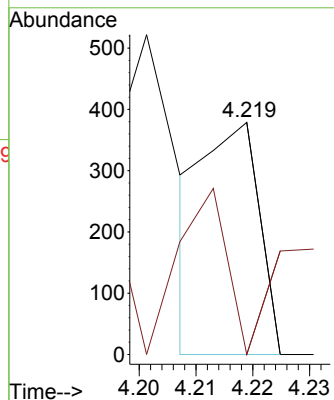
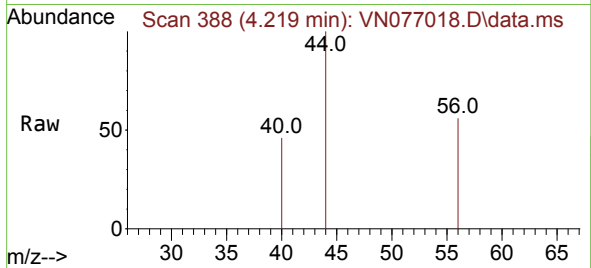




#13
Acrolein
Concen: 0.216 ug/l
RT: 4.219 min Scan# 388
Delta R.T. 0.029 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

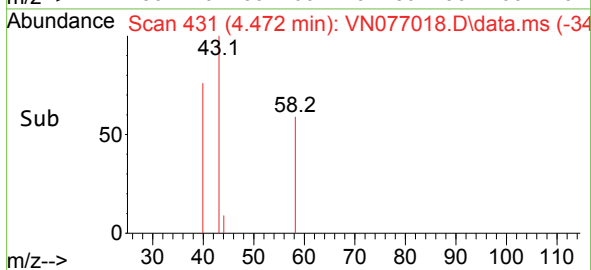
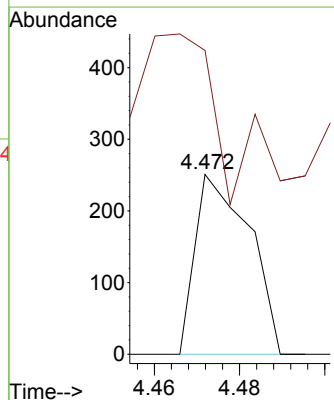
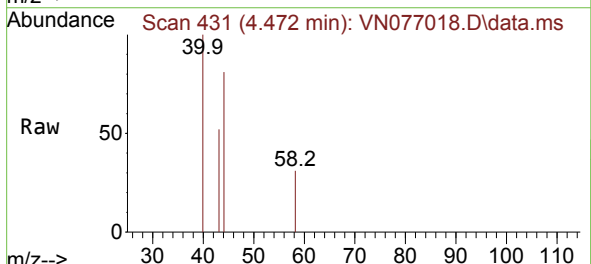
Instrument :
MSVOA_N
ClientSampleId :
VN0316WBL01

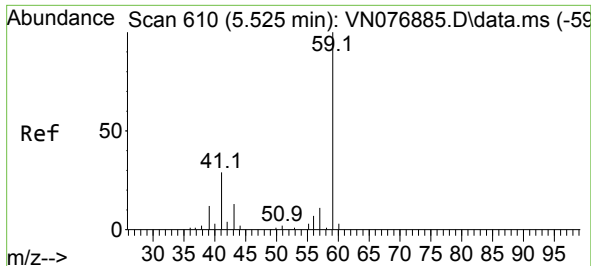
Tgt Ion: 56 Resp: 251
Ion Ratio Lower Upper
56 100
55 63.7 55.0 82.4



#15
Acetone
Concen: 0.314 ug/l
RT: 4.472 min Scan# 431
Delta R.T. 0.035 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

Tgt Ion: 58 Resp: 221
Ion Ratio Lower Upper
58 100
43 72.5 255.4 383.0#

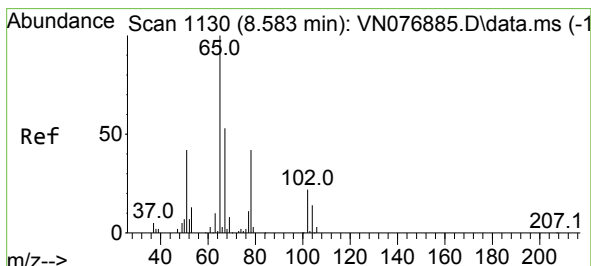
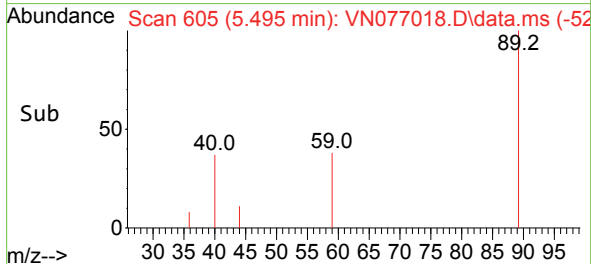
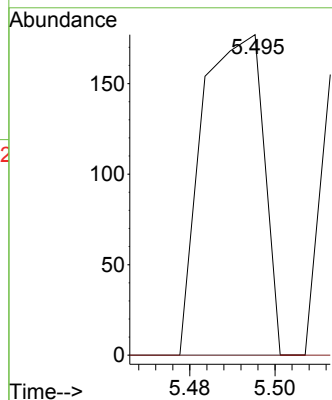
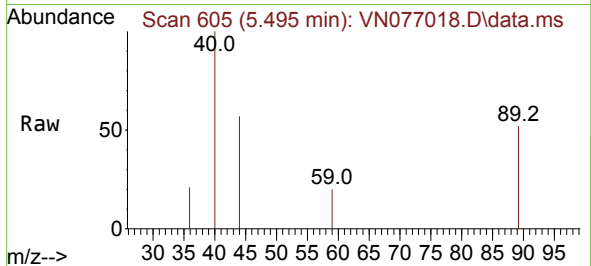




#23
tert-Butyl Alcohol
Concen: 0.235 ug/l
RT: 5.495 min Scan# 605
Delta R.T. -0.036 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

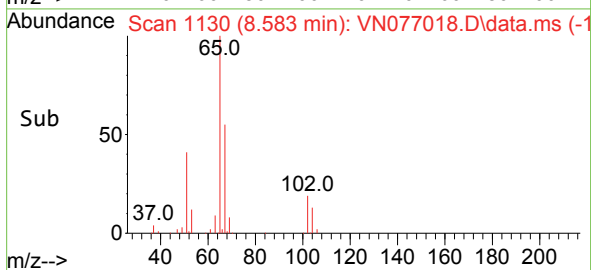
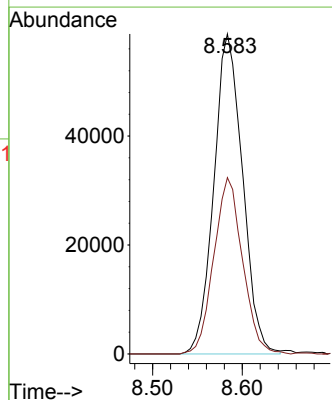
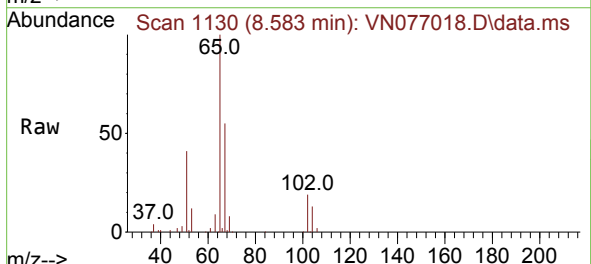
Instrument :
MSVOA_N
ClientSampleId :
VN0316WBL01

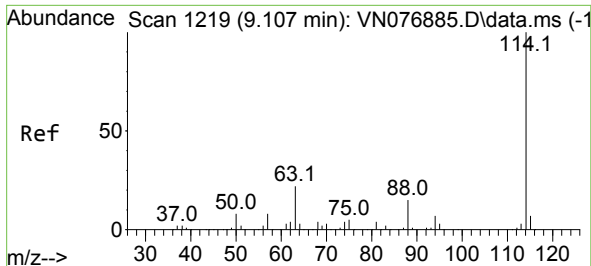
Tgt Ion: 59 Resp: 176
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#27
1,2-Dichloroethane-d4
Concen: 32.582 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

Tgt Ion: 65 Resp: 130367
Ion Ratio Lower Upper
65 100
67 55.1 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBL01

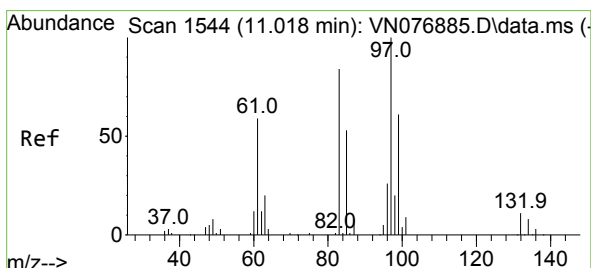
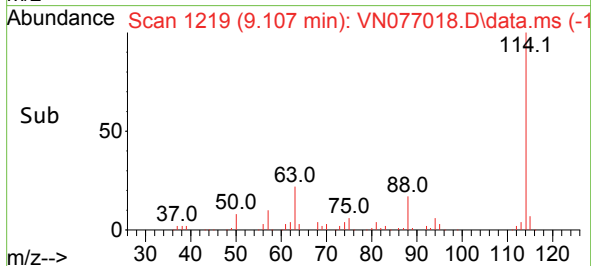
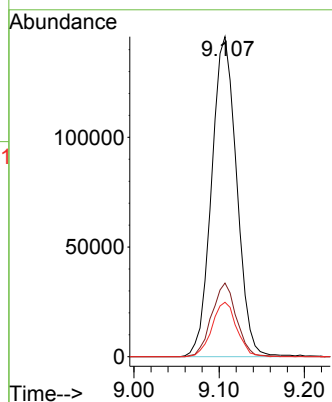
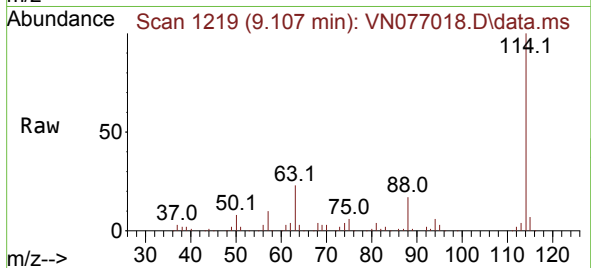
Tgt Ion:114 Resp: 297591

Ion Ratio Lower Upper

114 100

63 22.7 17.0 25.4

88 16.8 11.6 17.4



#50

1,1,2-Trichloroethane

Concen: 2.014 ug/l

RT: 10.577 min Scan# 1469

Delta R.T. -0.442 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

Tgt Ion: 97 Resp: 10380

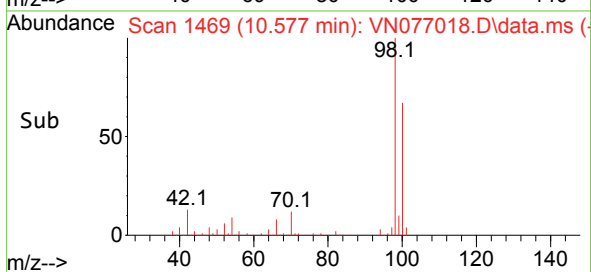
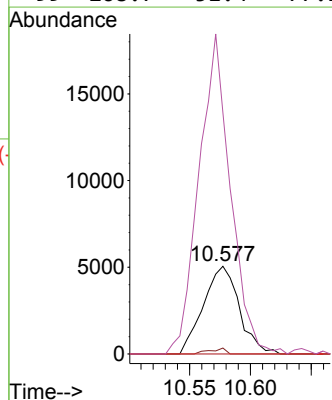
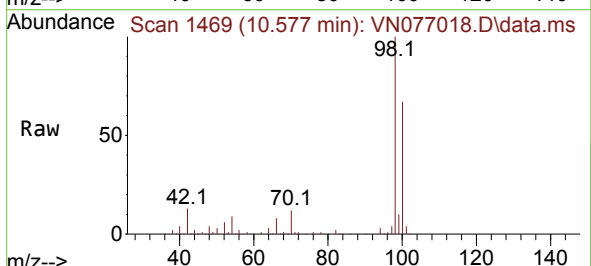
Ion Ratio Lower Upper

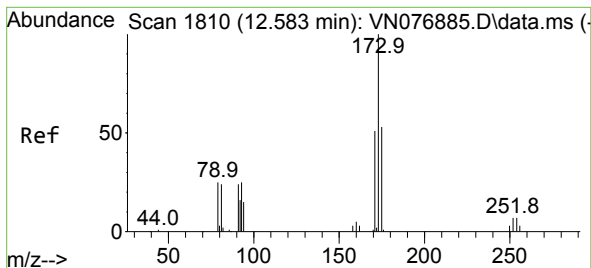
97 100

83 6.7 71.0 106.4#

85 0.0 45.5 68.3#

99 268.7 51.4 77.2#





#56

Bromoform

Concen: 0.303 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.271 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

Instrument :

MSVOA_N

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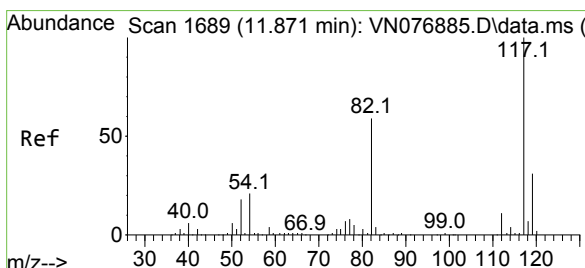
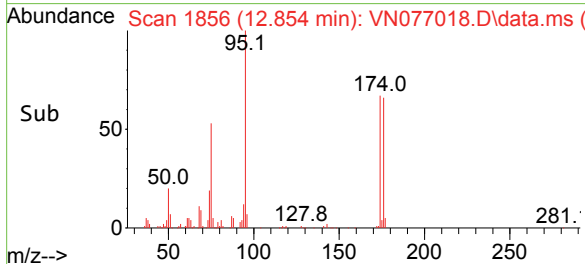
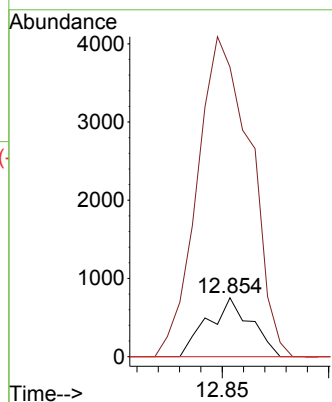
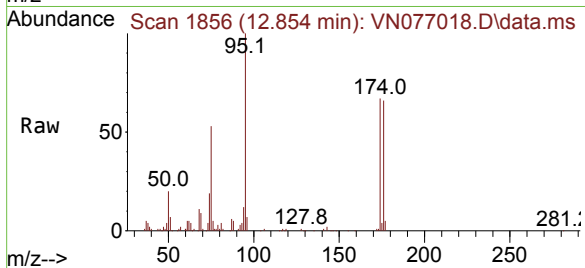
Tgt Ion:173 Resp: 1066

Ion Ratio Lower Upper

173 100

175 666.2 37.8 56.6#

254 0.0 7.3 10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.866 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

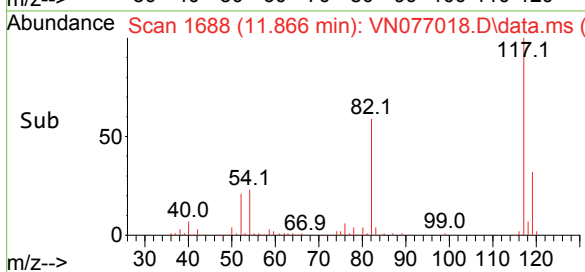
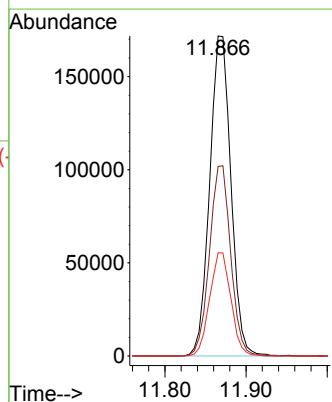
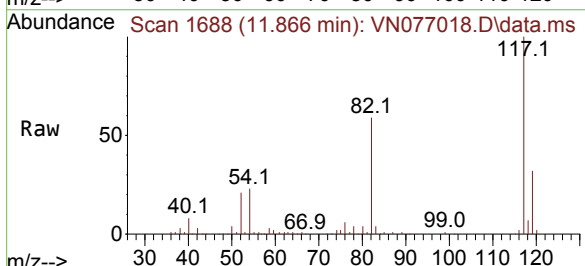
Tgt Ion:117 Resp: 312132

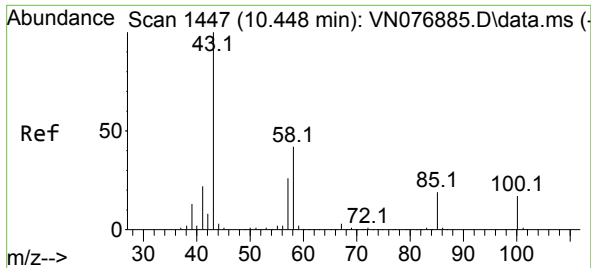
Ion Ratio Lower Upper

117 100

82 59.5 45.4 68.0

119 32.2 26.8 40.2

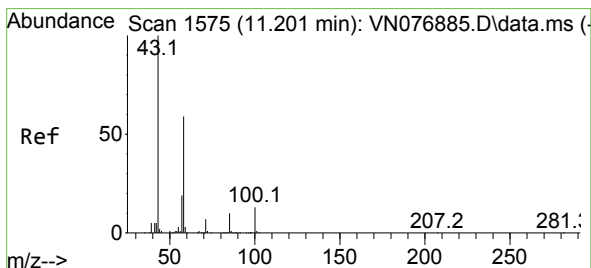
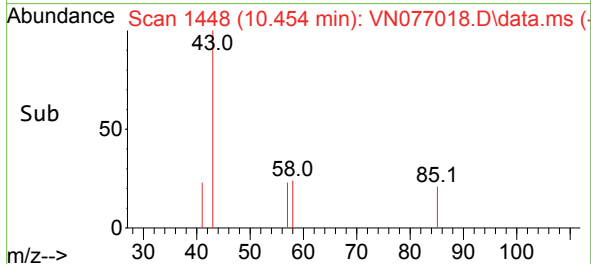
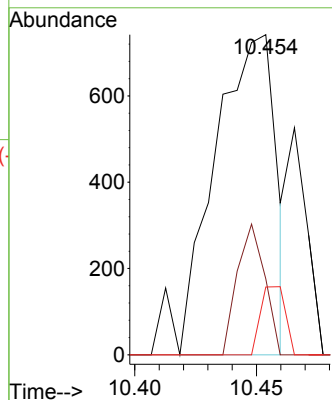
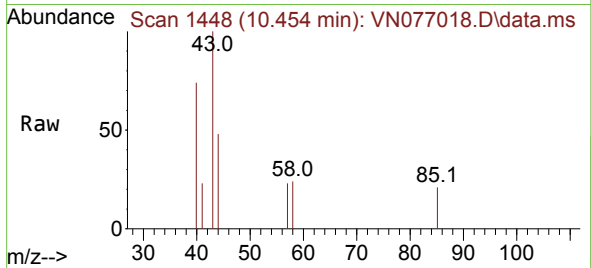




#58
4-Methyl-2-Pentanone
Concen: 0.204 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

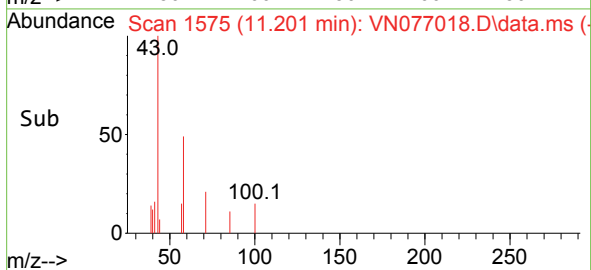
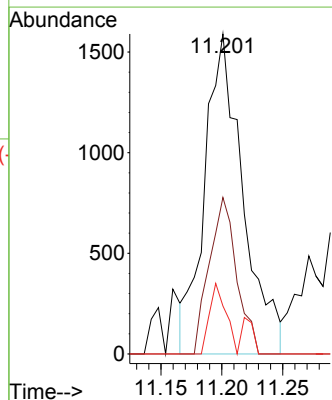
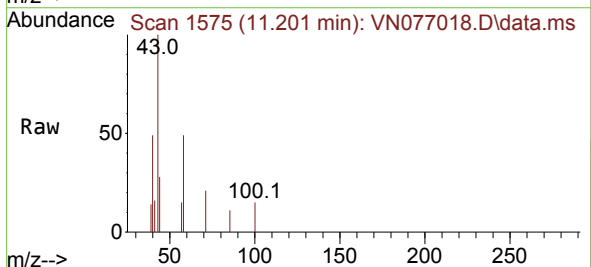
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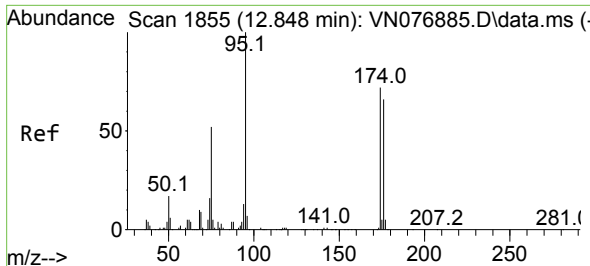
Tgt Ion: 43 Resp: 1287
Ion Ratio Lower Upper
43 100
58 18.5 28.6 42.8#
85 8.6 11.8 17.8#



#59
2-Hexanone
Concen: 0.776 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

Tgt Ion: 43 Resp: 3477
Ion Ratio Lower Upper
43 100
58 35.0 40.6 60.8#
57 9.5 13.1 19.7#

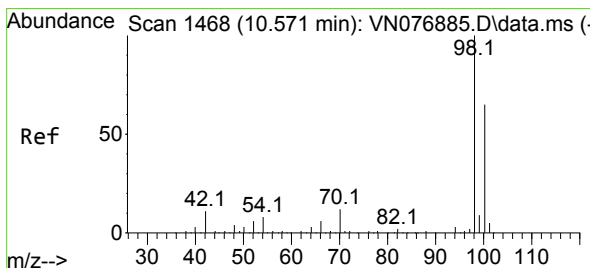
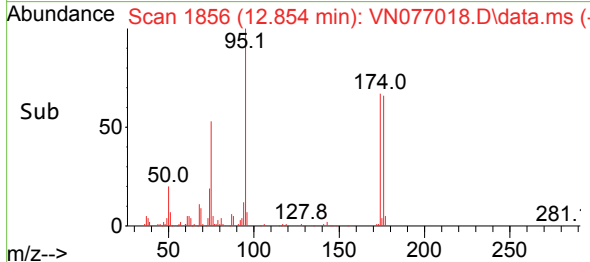
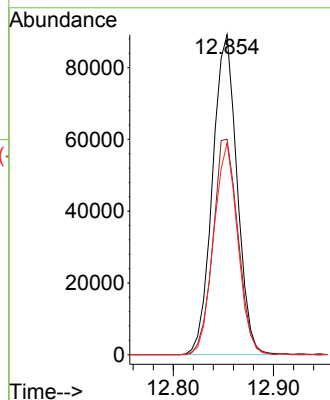
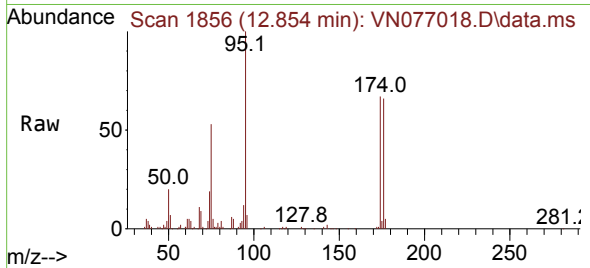




#60
4-Bromofluorobenzene
Concen: 25.587 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

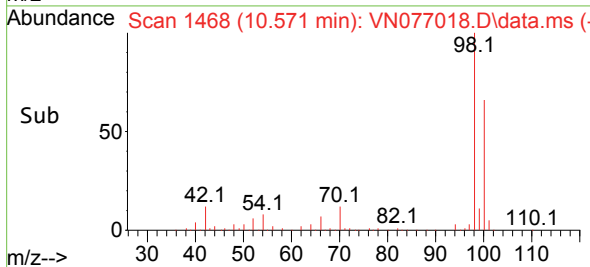
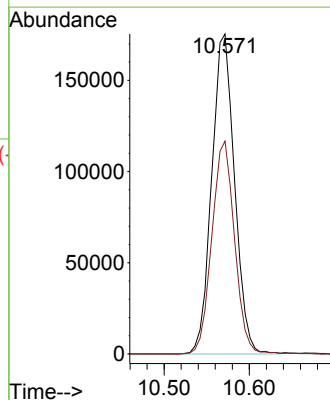
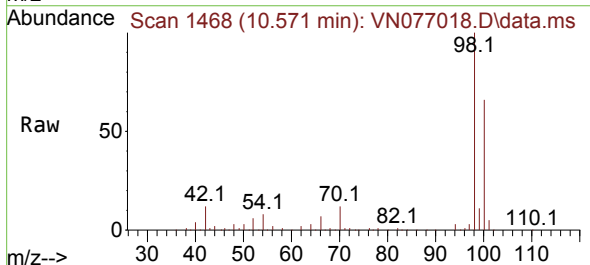
Instrument :
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ClientSampleId :
VN0316WBL01

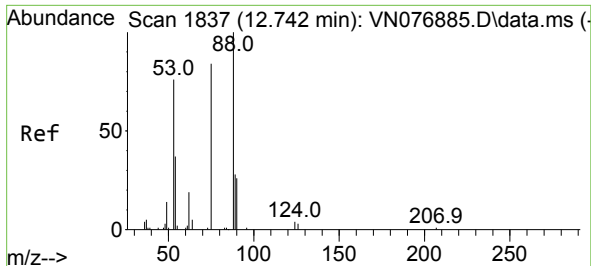
Tgt Ion: 95 Resp: 151156
Ion Ratio Lower Upper
95 100
174 69.0 64.2 96.4
176 64.8 61.4 92.0



#63
Toluene-d8
Concen: 29.723 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. -0.001 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

Tgt Ion: 98 Resp: 326318
Ion Ratio Lower Upper
98 100
100 66.0 53.8 80.6

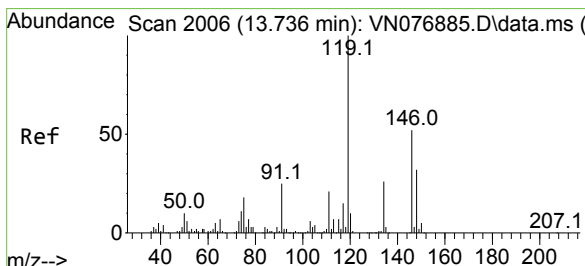
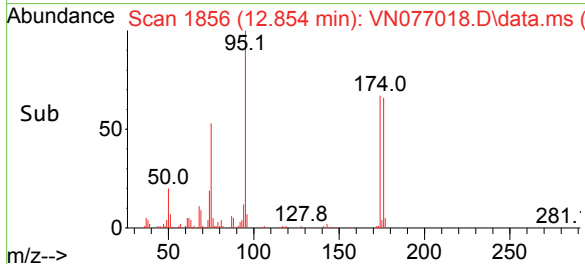
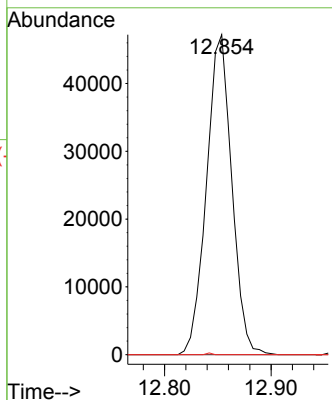
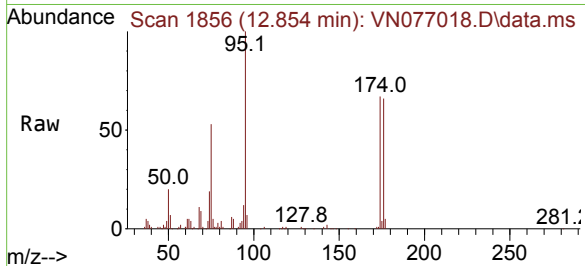




#77
t-1,4-Dichloro-2-butene
Concen: 41.071 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

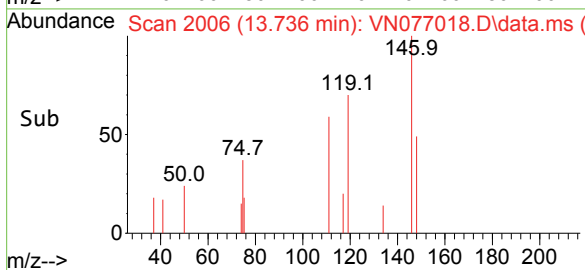
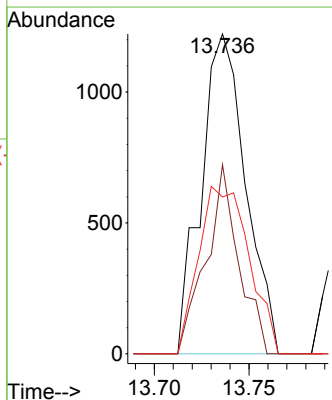
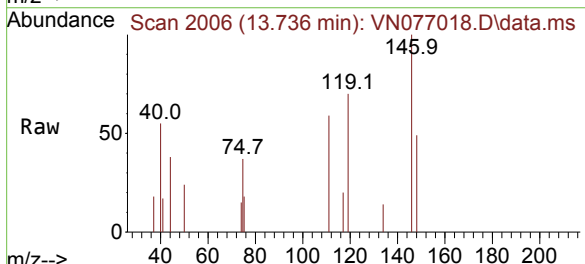
Instrument :
MSVOA_N
ClientSampleId :
VN0316WBL01

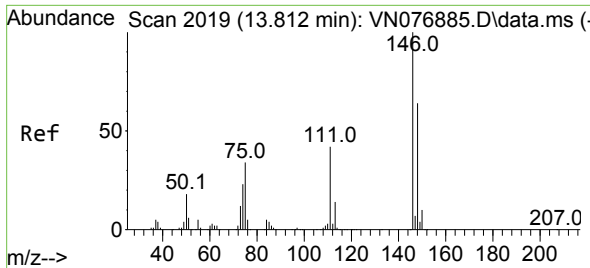
Tgt Ion: 75 Resp: 77917
Ion Ratio Lower Upper
75 100
53 0.0 50.4 151.3#
89 0.0 22.1 66.5#



#83
1,3-Dichlorobenzene
Concen: 0.214 ug/l
RT: 13.736 min Scan# 2006
Delta R.T. -0.000 min
Lab File: VN077018.D
Acq: 16 Mar 2023 13:32

Tgt Ion: 146 Resp: 2004
Ion Ratio Lower Upper
146 100
111 43.4 20.3 60.8
148 59.0 31.9 95.5

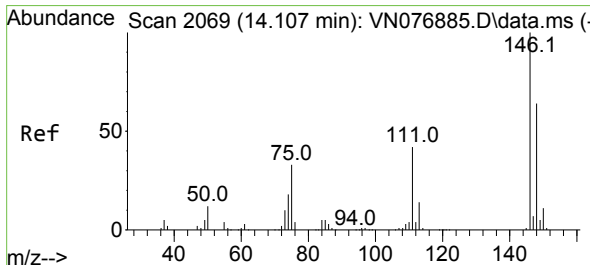
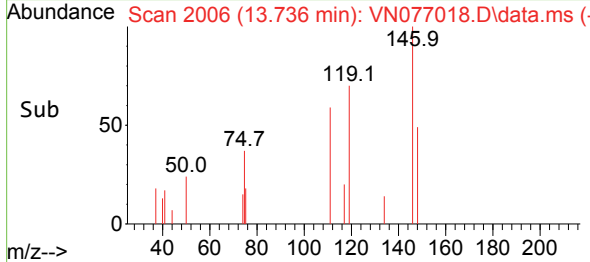
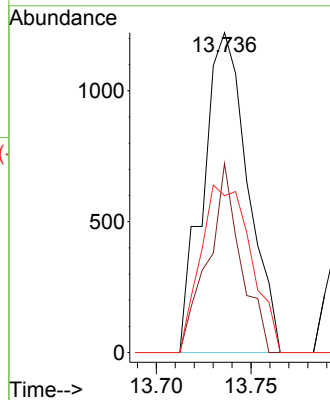
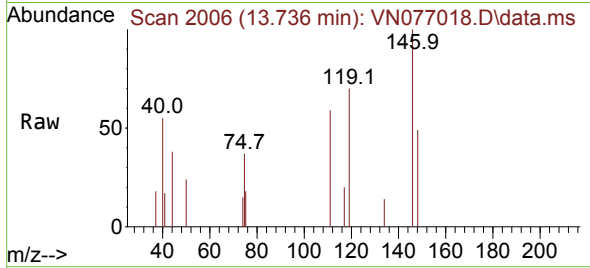




#84
 1,4-Dichlorobenzene
 Concen: 0.220 ug/l
 RT: 13.736 min Scan# 2019
 Delta R.T. -0.077 min
 Lab File: VN077018.D
 Acq: 16 Mar 2023 13:32

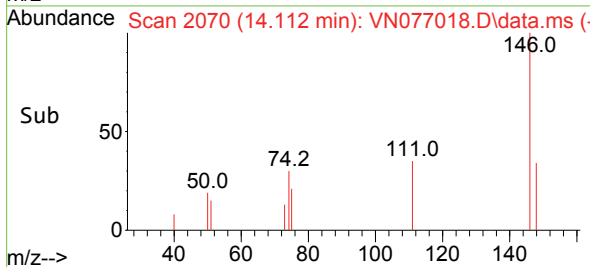
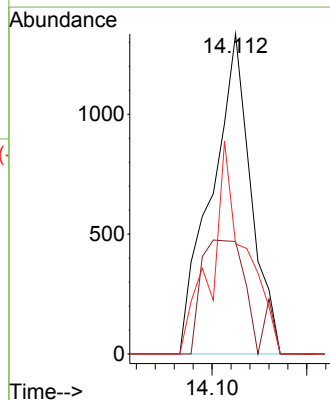
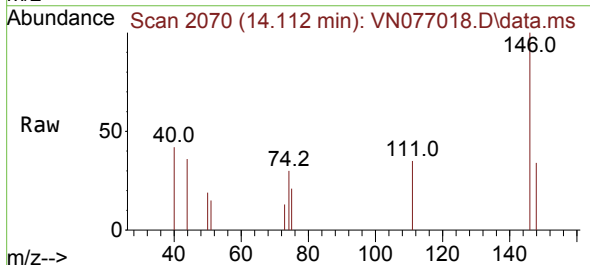
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBL01

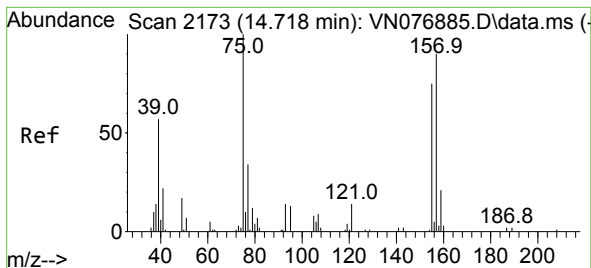
Tgt Ion:146 Resp: 2004
 Ion Ratio Lower Upper
 146 100
 111 43.4 18.2 54.6
 148 59.0 31.1 93.2



#87
 1,2-Dichlorobenzene
 Concen: 0.205 ug/l
 RT: 14.112 min Scan# 2070
 Delta R.T. 0.005 min
 Lab File: VN077018.D
 Acq: 16 Mar 2023 13:32

Tgt Ion:146 Resp: 1920
 Ion Ratio Lower Upper
 146 100
 111 38.6 20.5 61.6
 148 42.7 32.5 97.5

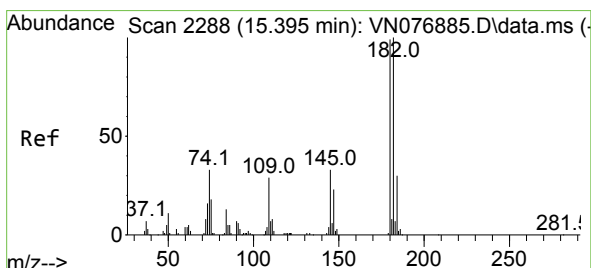
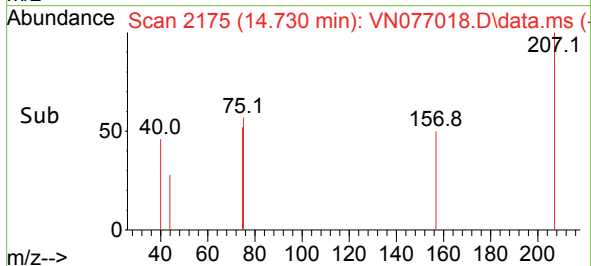
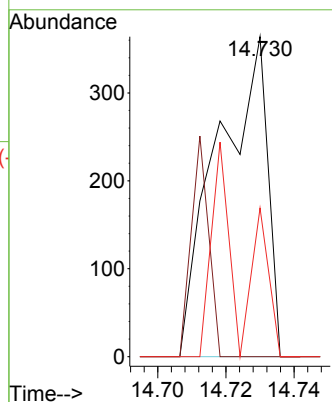
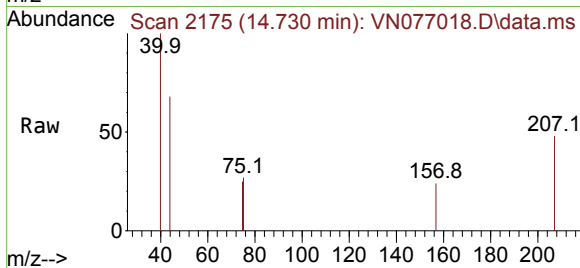




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.278 ug/l
 RT: 14.730 min Scan# 2175
 Delta R.T. 0.006 min
 Lab File: VN077018.D
 Acq: 16 Mar 2023 13:32

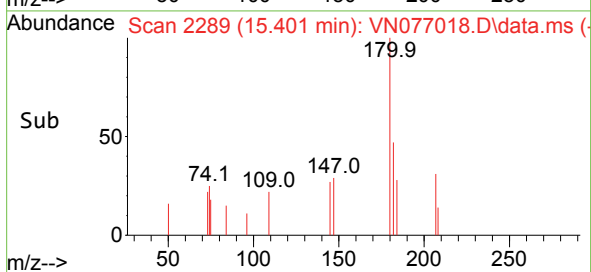
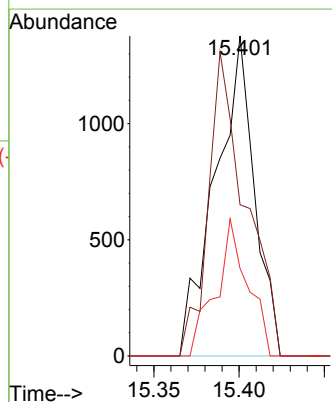
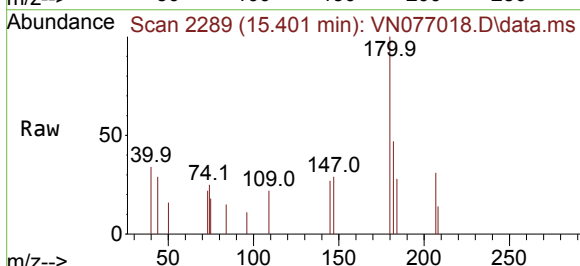
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBL01

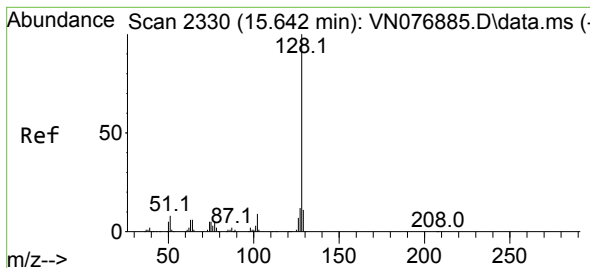
Tgt Ion: 75 Resp: 367
 Ion Ratio Lower Upper
 75 100
 155 0.0 62.5 93.7#
 157 16.3 77.5 116.3#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.440 ug/l
 RT: 15.401 min Scan# 2289
 Delta R.T. 0.006 min
 Lab File: VN077018.D
 Acq: 16 Mar 2023 13:32

Tgt Ion: 180 Resp: 2195
 Ion Ratio Lower Upper
 180 100
 182 90.3 76.6 115.0
 145 28.0 24.6 36.8





#91

Naphthalene

Concen: 0.615 ug/l

RT: 15.642 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBL01

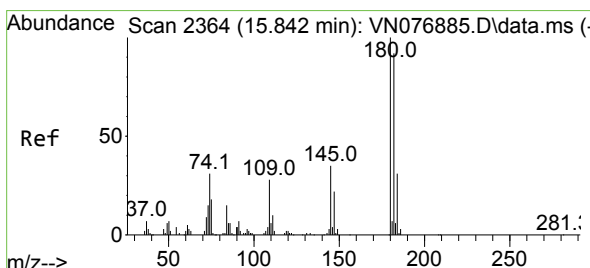
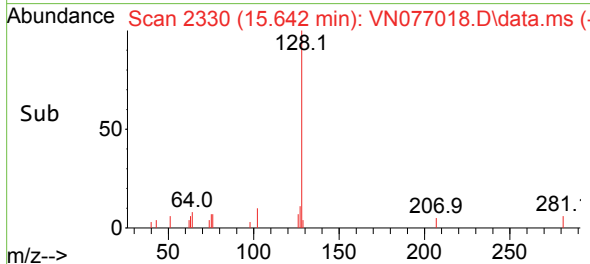
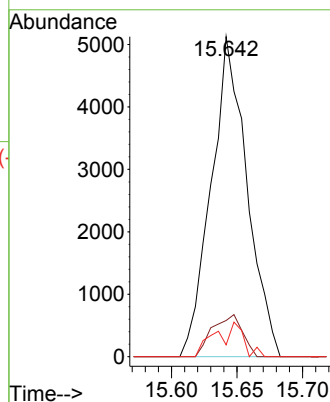
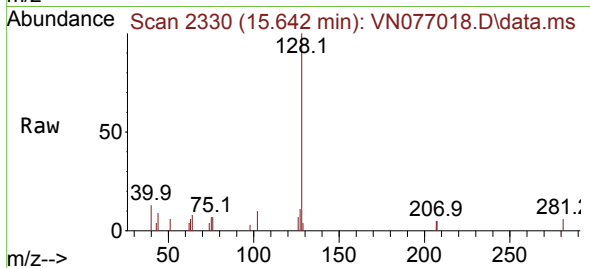
Tgt Ion:128 Resp: 9738

Ion Ratio Lower Upper

128 100

127 0.0 11.0 16.6#

129 4.3 8.9 13.3#



#92

1,2,3-Trichlorobenzene

Concen: 0.539 ug/l

RT: 15.842 min Scan# 2364

Delta R.T. -0.000 min

Lab File: VN077018.D

Acq: 16 Mar 2023 13:32

Tgt Ion:180 Resp: 2698

Ion Ratio Lower Upper

180 100

182 70.8 0.0 190.8

145 18.1 0.0 65.0

