

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042723\
 Data File : VN077489.D
 Acq On : 27 Apr 2023 11:35
 Operator : JC\MD
 Sample : 02520-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-042623

Quant Time: Apr 28 03:23:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

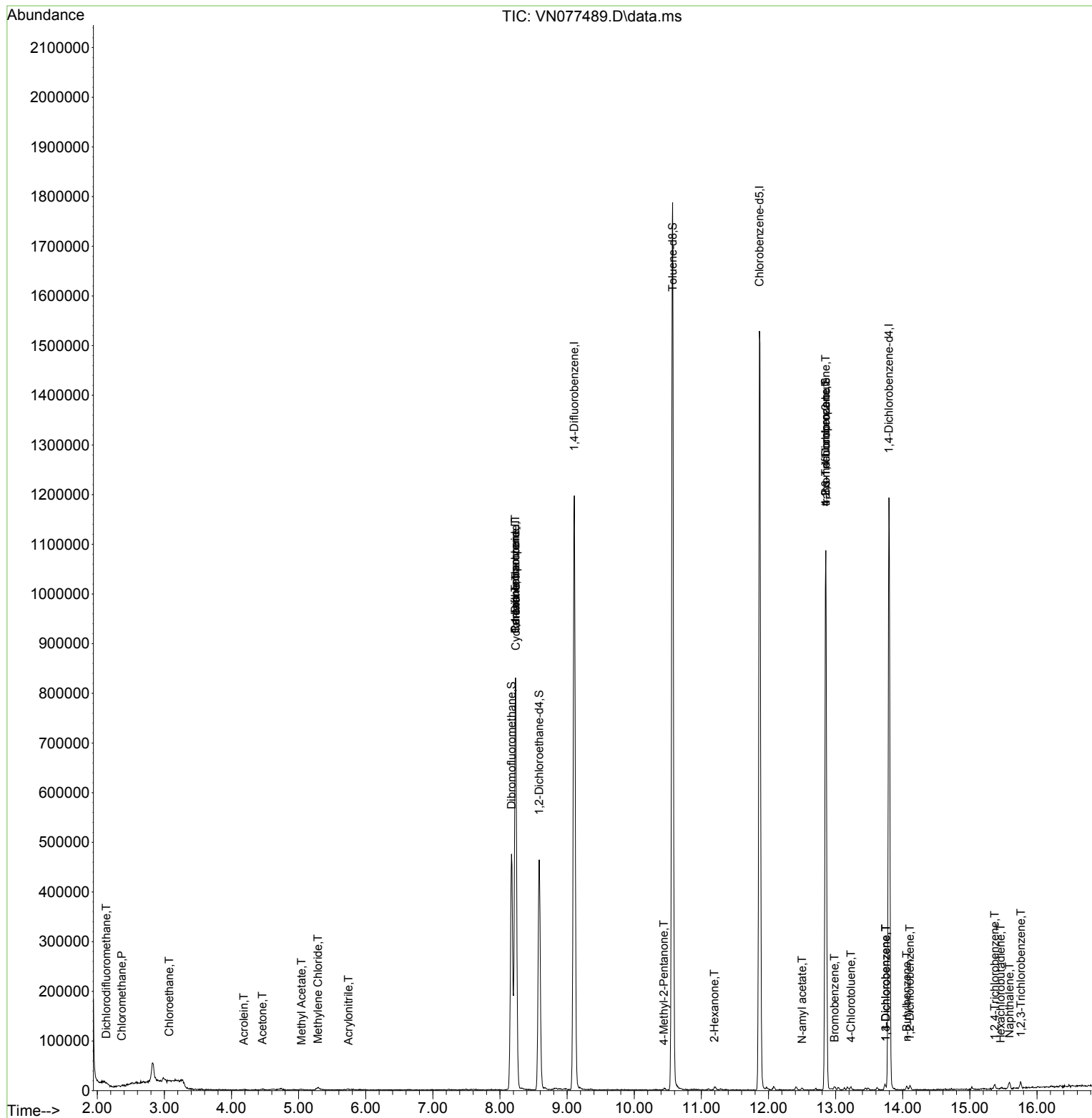
Internal Standards						
1) Pentafluorobenzene	8.231	168	588663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1103042	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	953108	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	326850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	383835	49.970	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.940%		
35) Dibromofluoromethane	8.172	113	336312	50.728	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.460%		
50) Toluene-d8	10.572	98	1309944	51.554	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.100%		
62) 4-Bromofluorobenzene	12.854	95	398477	47.933	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.860%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.137	85	310	0.350	ug/l #	43
3) Chloromethane	2.366	50	1504	0.255	ug/l #	85
6) Chloroethane	3.072	64	1518	0.254	ug/l	93
13) Acrolein	4.184	56	490	0.399	ug/l #	77
15) Acrylonitrile	5.743	53	741	0.265	ug/l #	41
16) Acetone	4.460	43	2686	1.099	ug/l #	41
18) Methyl Acetate	5.043	43	2608	0.276	ug/l #	69
20) Methylene Chloride	5.290	84	3775	0.487	ug/l #	82
31) Cyclohexane	8.237	56	14523	1.335	ug/l #	18
36) 1,1-Dichloropropene	8.231	75	50350	5.257	ug/l #	49
38) Carbon Tetrachloride	8.231	117	67361	6.374	ug/l #	15
51) 4-Methyl-2-Pentanone	10.442	43	2613	0.354	ug/l #	79
59) 2-Hexanone	11.195	43	4183	0.779	ug/l	95
74) N-amyl acetate	12.501	43	2030	0.226	ug/l #	66
76) 1,2,3-Trichloropropane	12.854	75	216161	28.440	ug/l #	1
77) Bromobenzene	12.983	156	1483	0.224	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.854	75	216161	80.348	ug/l #	15
82) 4-Chlorotoluene	13.230	91	4626	0.239	ug/l	94
87) 1,3-Dichlorobenzene	13.748	146	3953	0.336	ug/l	84
88) 1,4-Dichlorobenzene	13.748	146	3953	0.341	ug/l	84
89) n-Butylbenzene	14.060	91	4597	0.257	ug/l	91
91) 1,2-Dichlorobenzene	14.107	146	3322	0.285	ug/l	95
93) 1,2,4-Trichlorobenzene	15.371	180	2477	1.832	ug/l	71
94) Hexachlorobutadiene	15.460	225	628	0.267	ug/l #	68
95) Naphthalene	15.589	128	12291	2.522	ug/l	96
96) 1,2,3-Trichlorobenzene	15.760	180	3681	2.146	ug/l	93

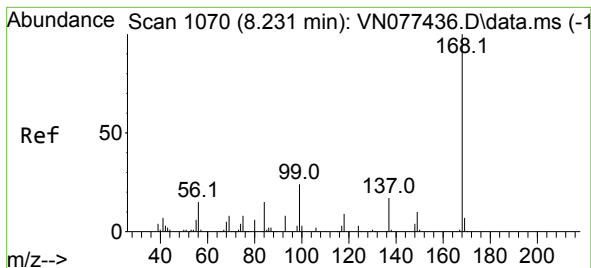
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

Instrument :

MSVOA_N

ClientSampleId :

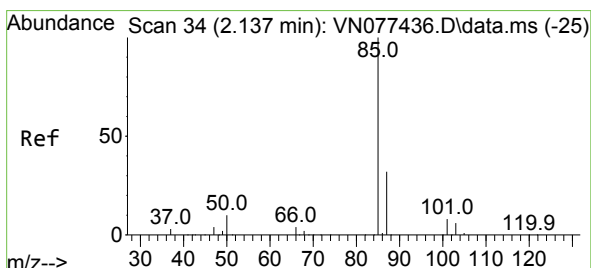
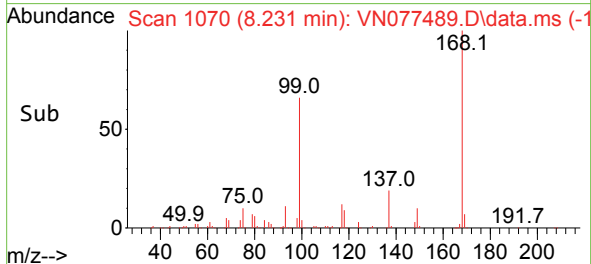
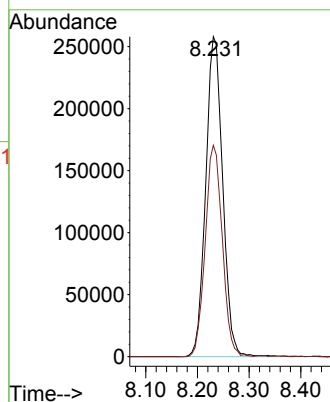
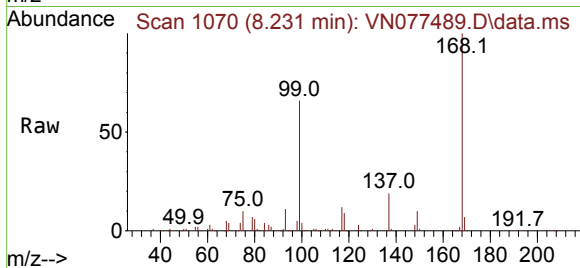
TB-01-042623

Tgt Ion:168 Resp: 588663

Ion Ratio Lower Upper

168 100

99 66.1 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.350 ug/l

RT: 2.137 min Scan# 34

Delta R.T. -0.000 min

Lab File: VN077489.D

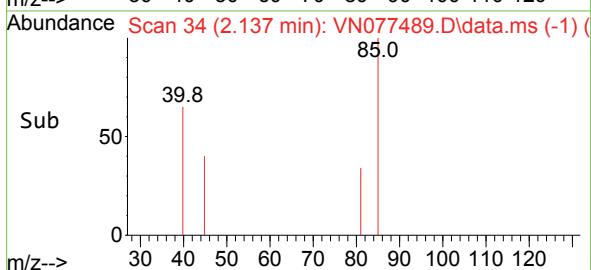
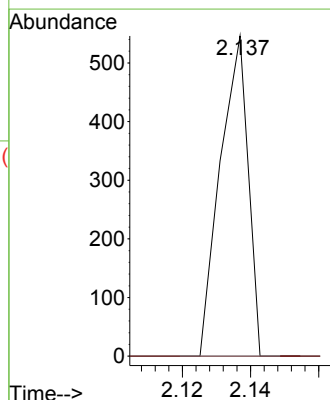
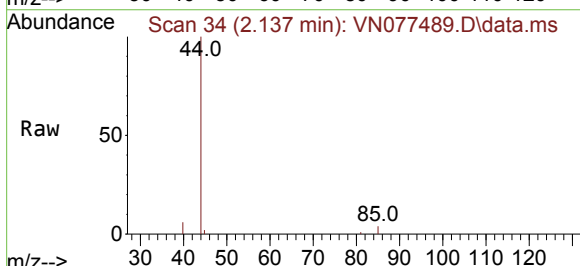
Acq: 27 Apr 2023 11:35

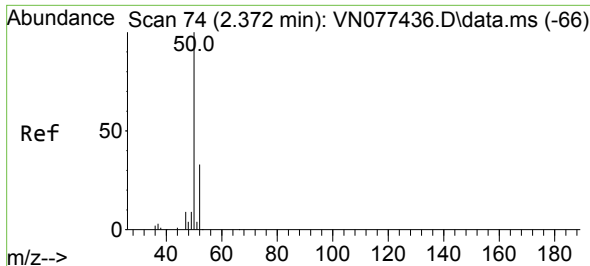
Tgt Ion: 85 Resp: 310

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#

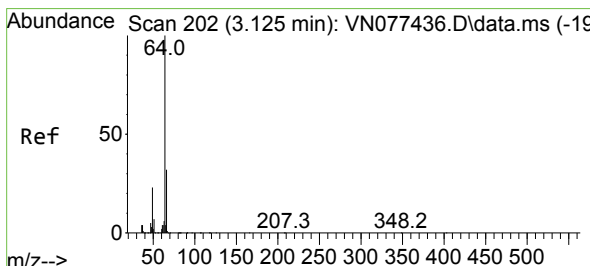
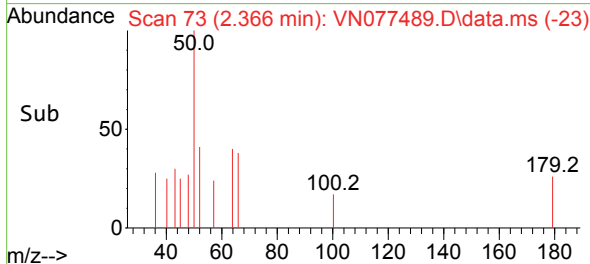
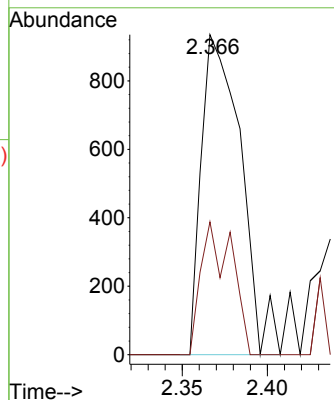
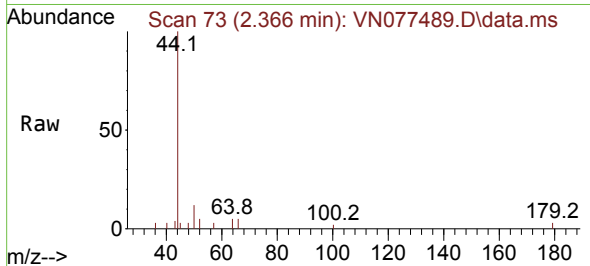




#3
Chloromethane
Concen: 0.255 ug/l
RT: 2.366 min Scan# 71
Delta R.T. -0.006 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

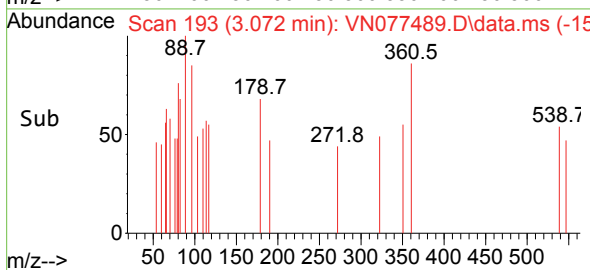
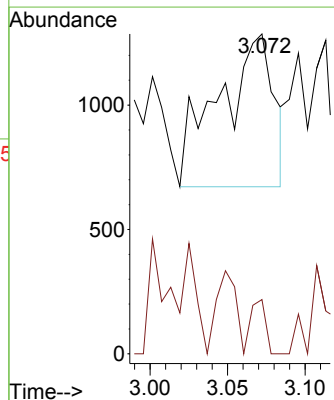
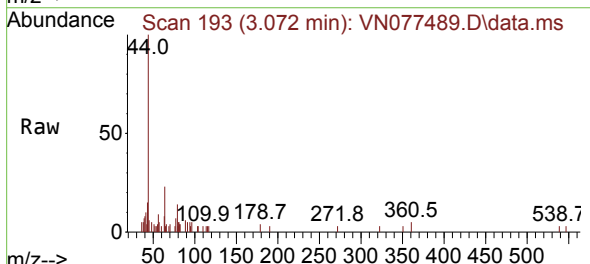
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

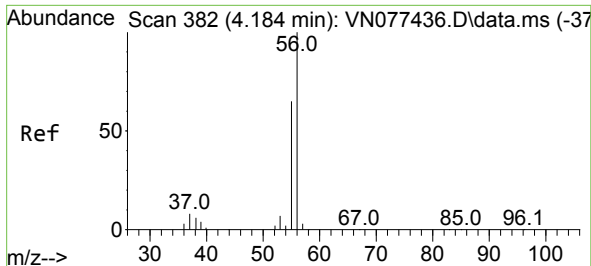
Tgt Ion: 50 Resp: 1504
Ion Ratio Lower Upper
50 100
52 41.5 26.5 39.7#



#6
Chloroethane
Concen: 0.254 ug/l
RT: 3.072 min Scan# 193
Delta R.T. -0.053 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 64 Resp: 1518
Ion Ratio Lower Upper
64 100
66 35.5 25.4 38.2

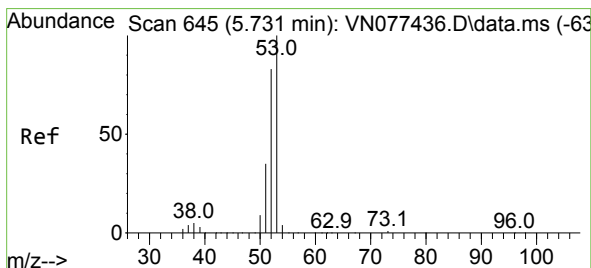
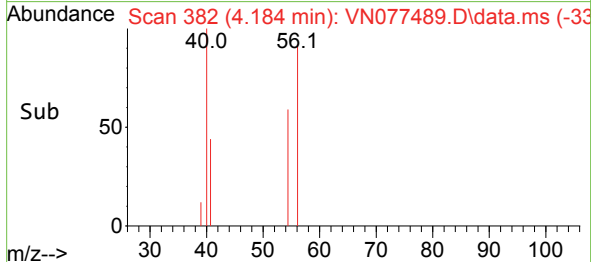
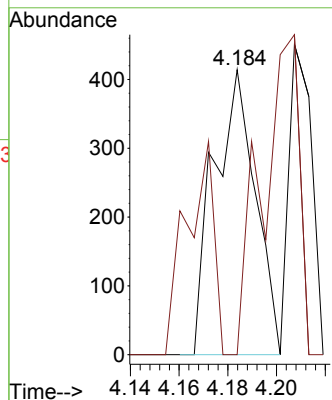
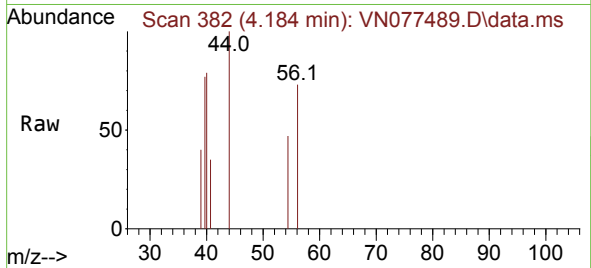




#13
Acrolein
Concen: 0.399 ug/l
RT: 4.184 min Scan# 382
Delta R.T. -0.000 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

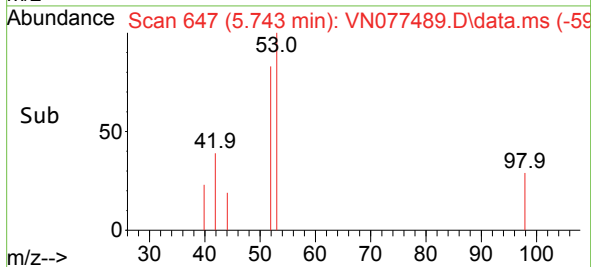
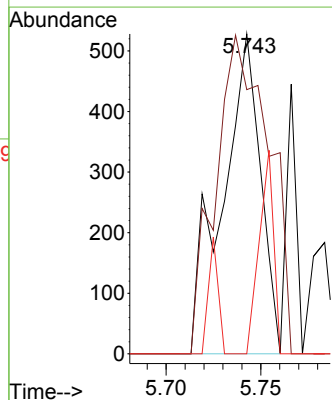
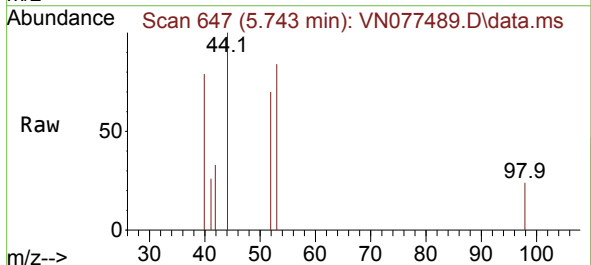
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

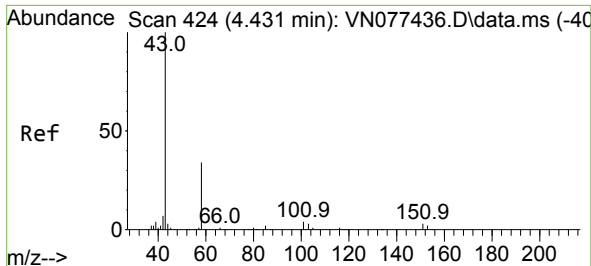
Tgt Ion: 56 Resp: 490
Ion Ratio Lower Upper
56 100
55 49.6 54.5 81.7#



#15
Acrylonitrile
Concen: 0.265 ug/l
RT: 5.743 min Scan# 647
Delta R.T. 0.012 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 53 Resp: 741
Ion Ratio Lower Upper
53 100
52 139.4 65.3 97.9#
51 9.2 28.9 43.3#

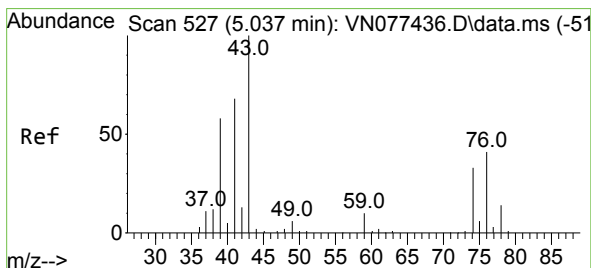
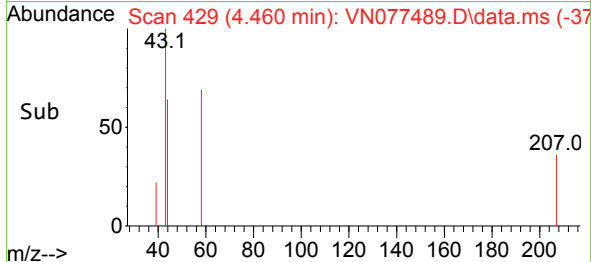
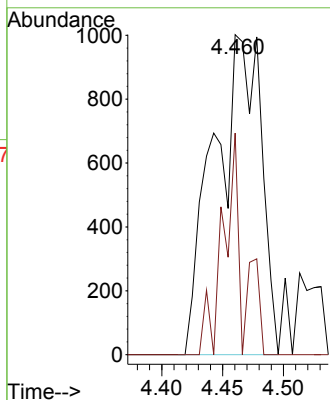
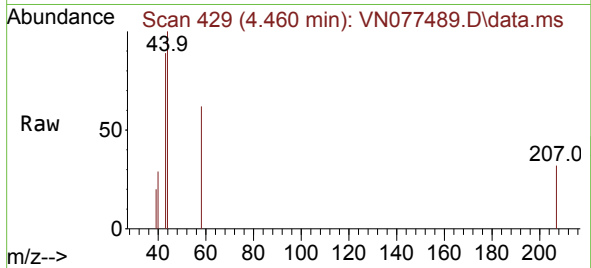




#16
Acetone
Concen: 1.099 ug/l
RT: 4.460 min Scan# 431
Delta R.T. 0.029 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

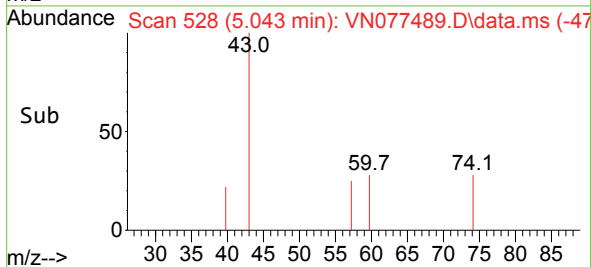
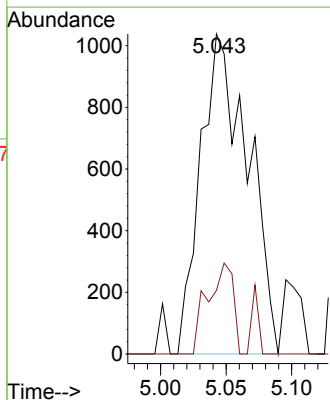
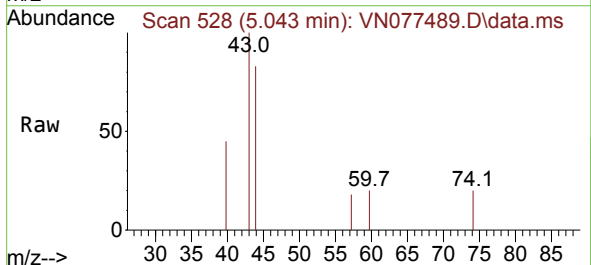
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

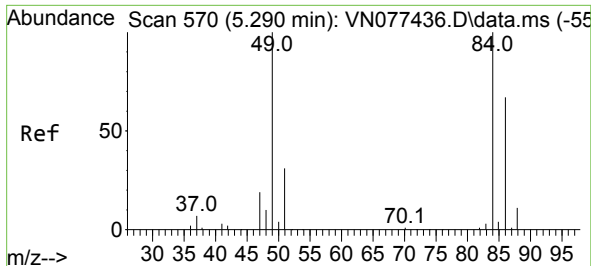
Tgt Ion: 43 Resp: 2686
Ion Ratio Lower Upper
43 100
58 69.3 28.0 42.0#



#18
Methyl Acetate
Concen: 0.276 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 43 Resp: 2608
Ion Ratio Lower Upper
43 100
74 15.4 26.2 39.4#



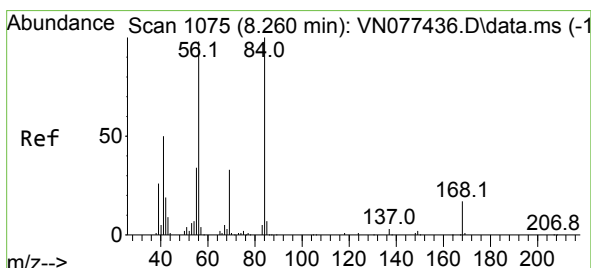
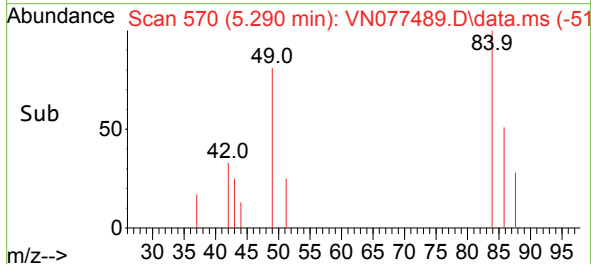
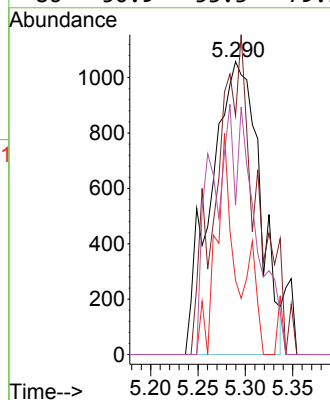
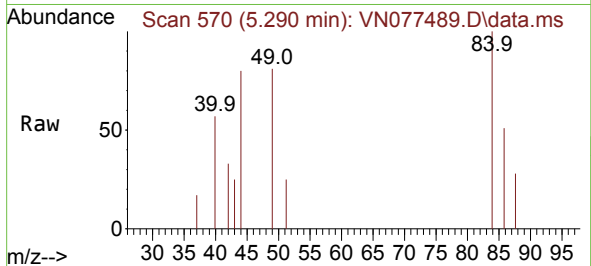


#20
Methylene Chloride
Concen: 0.487 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

Tgt Ion: 84 Resp: 3775

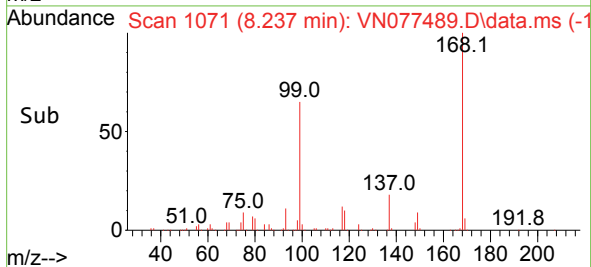
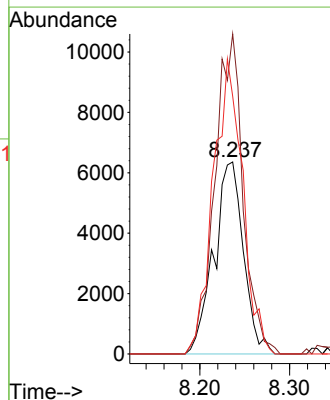
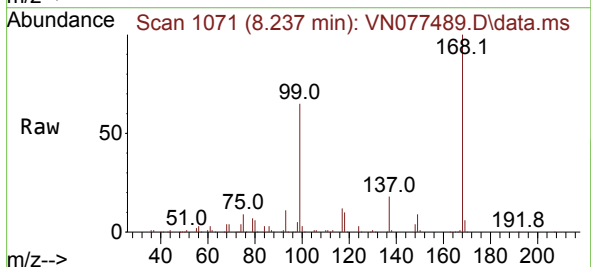
Ion	Ratio	Lower	Upper
84	100		
49	81.5	79.7	119.5
51	25.3	25.2	37.8
86	50.9	53.3	79.9#

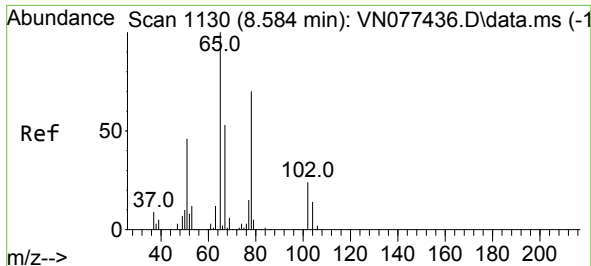


#31
Cyclohexane
Concen: 1.335 ug/l
RT: 8.237 min Scan# 1071
Delta R.T. -0.024 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 56 Resp: 14523

Ion	Ratio	Lower	Upper
56	100		
69	166.7	26.8	40.2#
84	134.3	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 49.970 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077489.D

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Instrument :

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ClientSampleId :

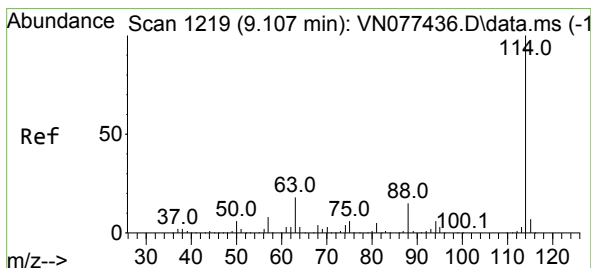
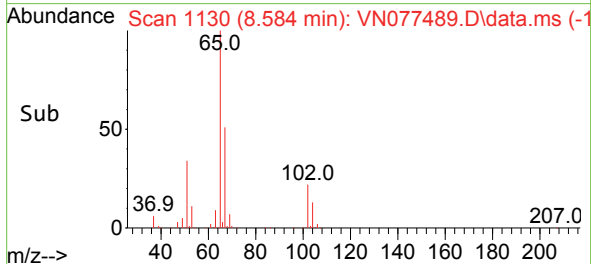
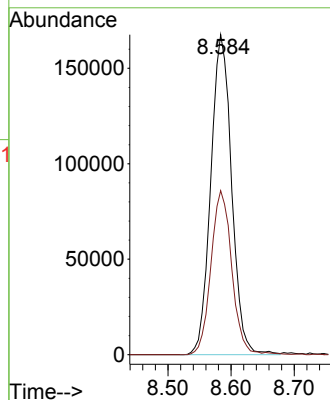
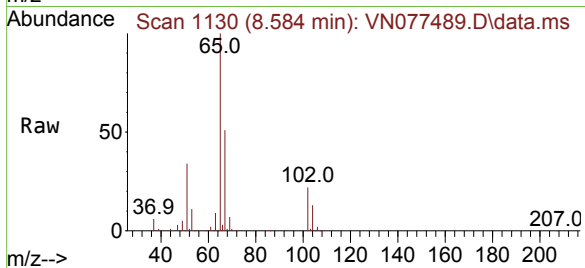
TB-01-042623

Tgt Ion: 65 Resp: 383835

Ion Ratio Lower Upper

65 100

67 51.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

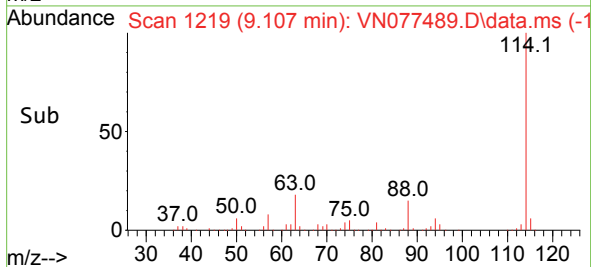
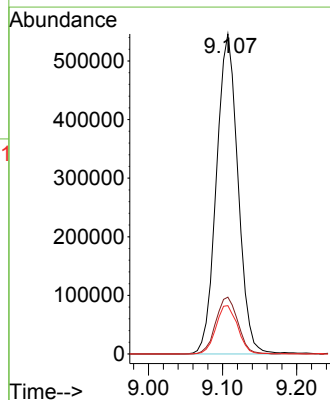
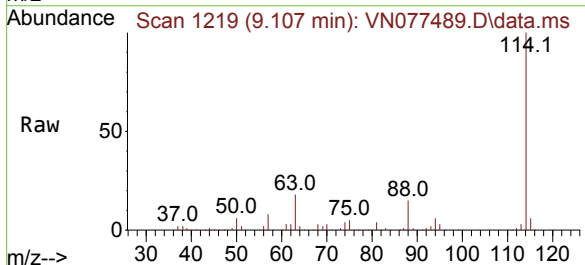
Tgt Ion: 114 Resp: 1103042

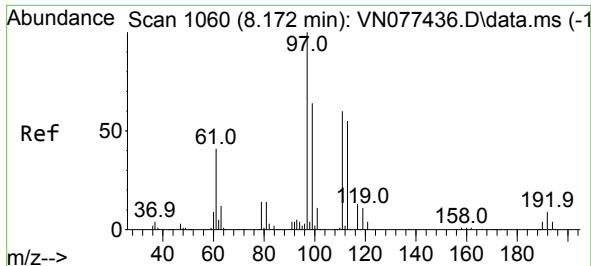
Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.4

88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.728 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

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Acq: 27 Apr 2023 11:35

Instrument :

MSVOA_N

ClientSampleId :

TB-01-042623

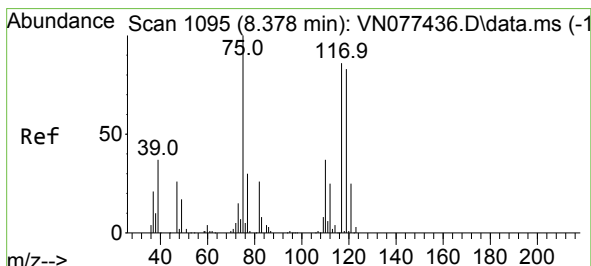
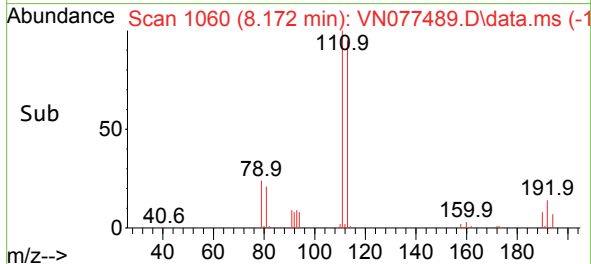
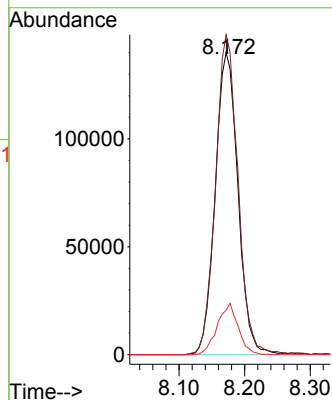
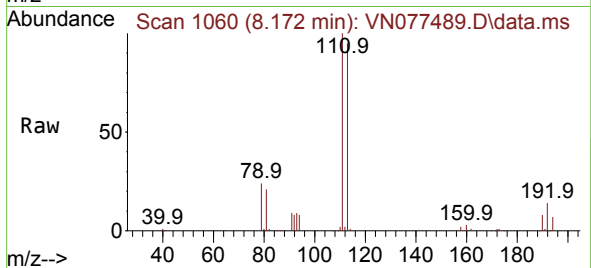
Tgt Ion:113 Resp: 336312

Ion Ratio Lower Upper

113 100

111 104.5 82.6 123.8

192 15.7 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.257 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

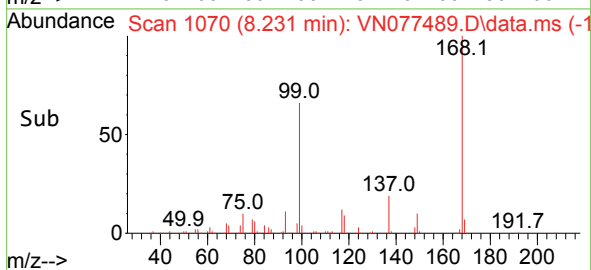
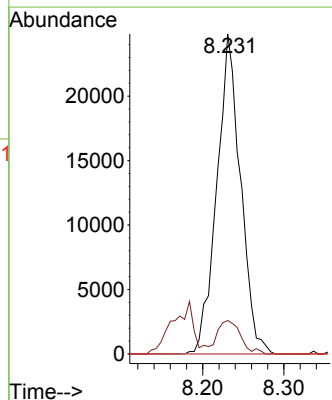
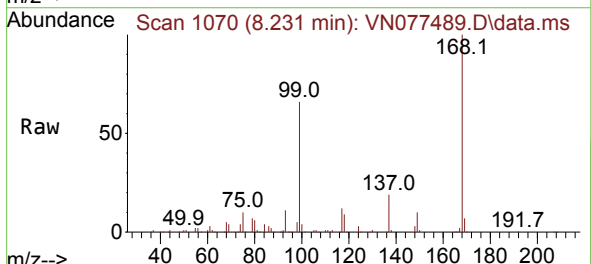
Tgt Ion: 75 Resp: 50350

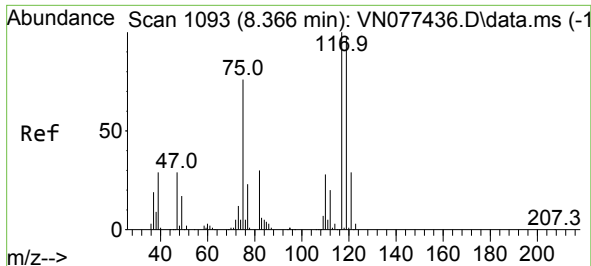
Ion Ratio Lower Upper

75 100

110 10.2 19.1 57.3#

77 0.0 25.0 37.4#

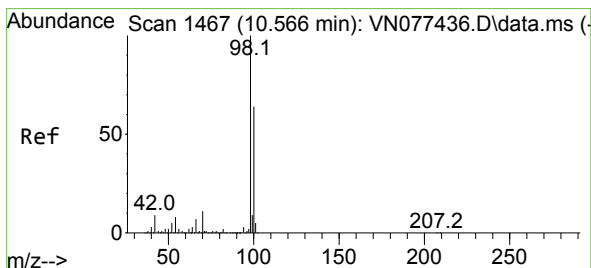
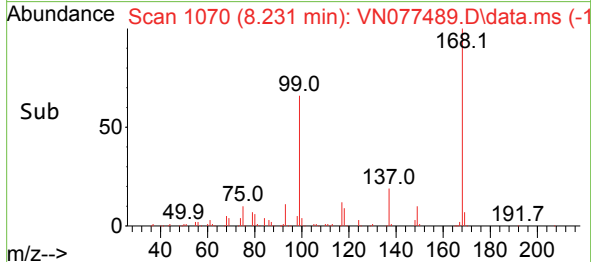
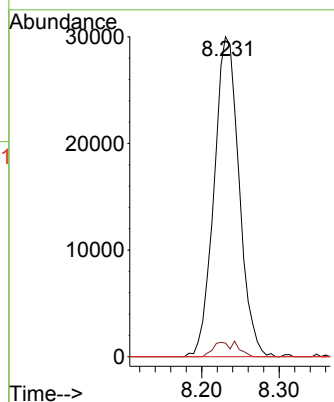
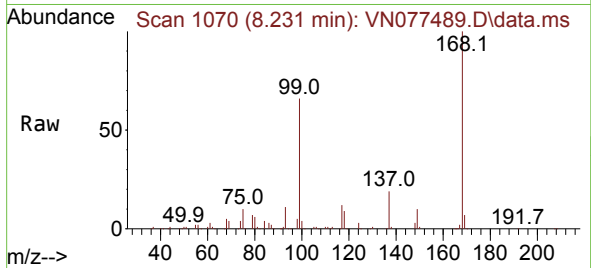




#38
Carbon Tetrachloride
Concen: 6.374 ug/l
RT: 8.231 min Scan# 1093
Delta R.T. -0.135 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

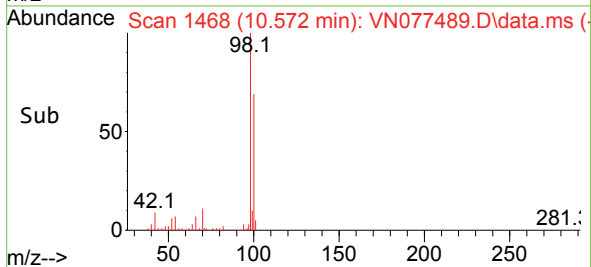
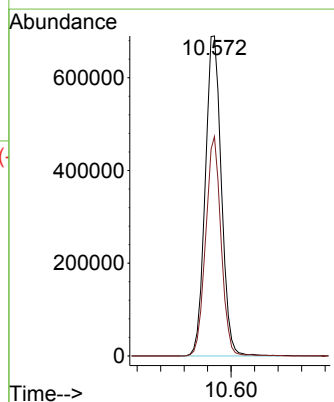
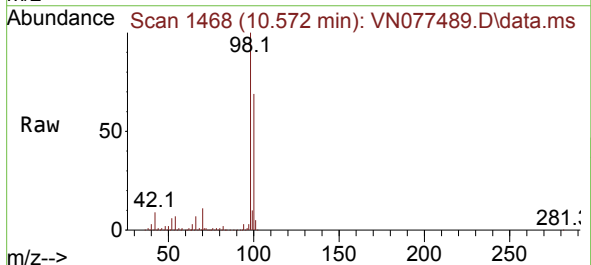
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

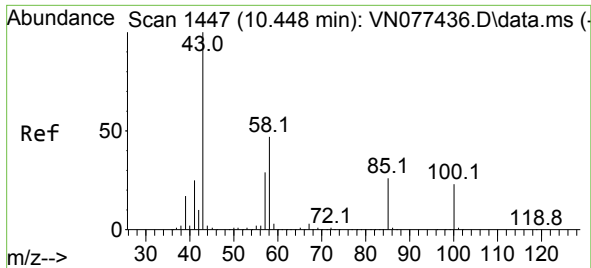
Tgt Ion:117 Resp: 67361
Ion Ratio Lower Upper
117 100
119 4.2 77.3 115.9#
121 0.0 23.3 34.9#



#50
Toluene-d8
Concen: 51.554 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 98 Resp: 1309944
Ion Ratio Lower Upper
98 100
100 65.4 52.0 78.0

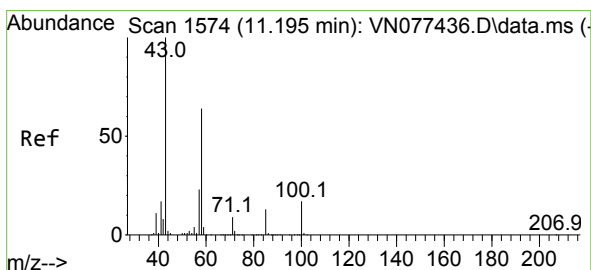
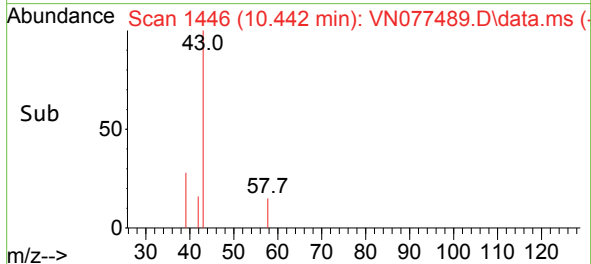
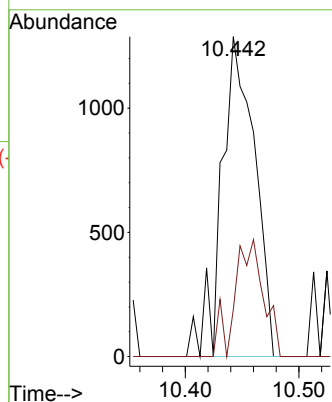
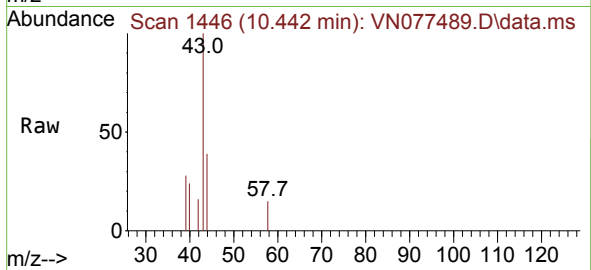




#51
4-Methyl-2-Pentanone
Concen: 0.354 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

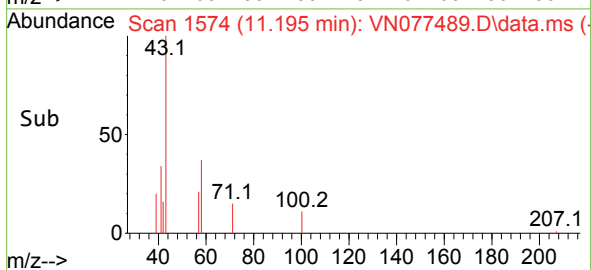
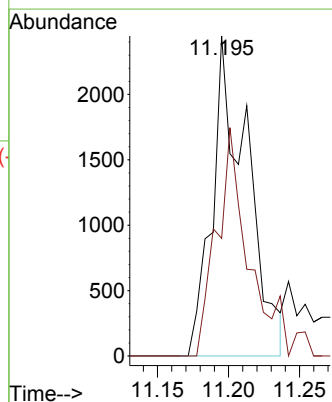
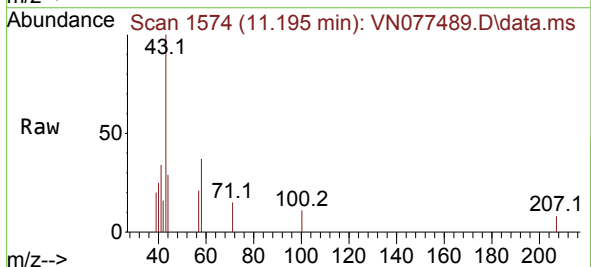
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

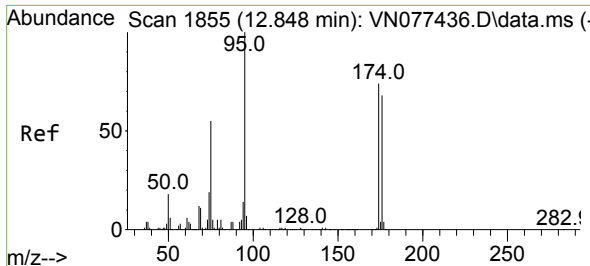
Tgt Ion: 43 Resp: 2613
Ion Ratio Lower Upper
43 100
58 32.0 36.6 54.8#



#59
2-Hexanone
Concen: 0.779 ug/l
RT: 11.195 min Scan# 1574
Delta R.T. -0.000 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 43 Resp: 4183
Ion Ratio Lower Upper
43 100
58 67.2 31.7 95.1

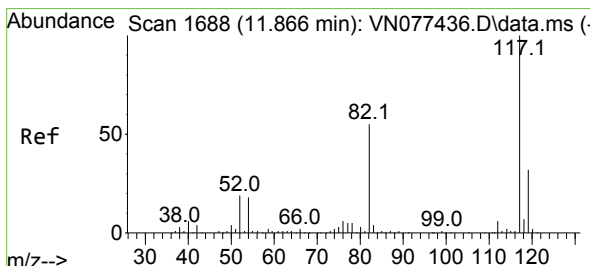
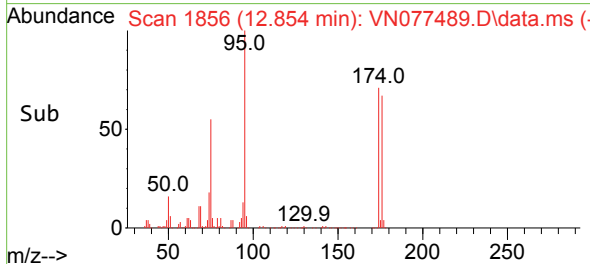
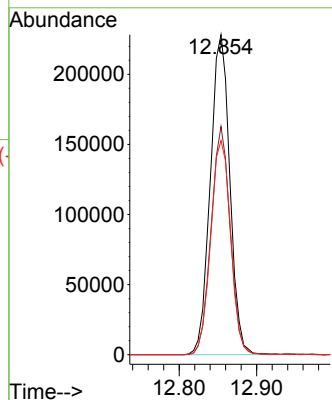
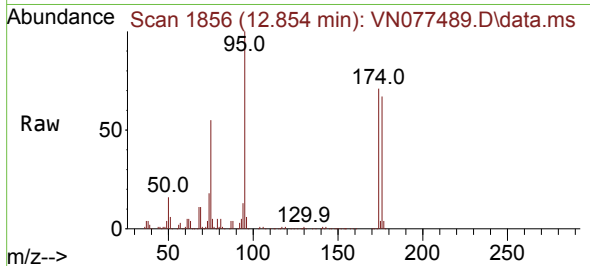




#62
4-Bromofluorobenzene
Concen: 47.933 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

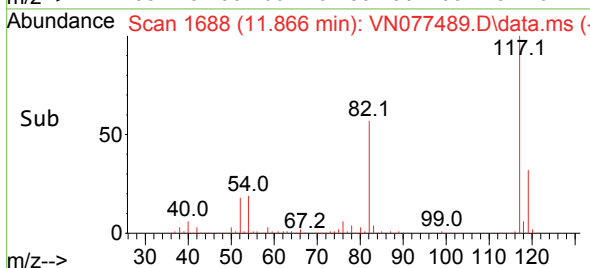
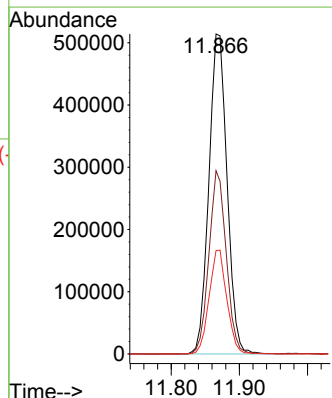
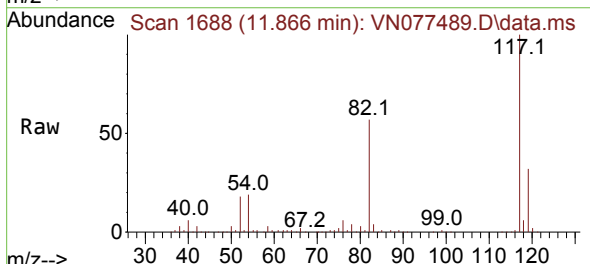
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

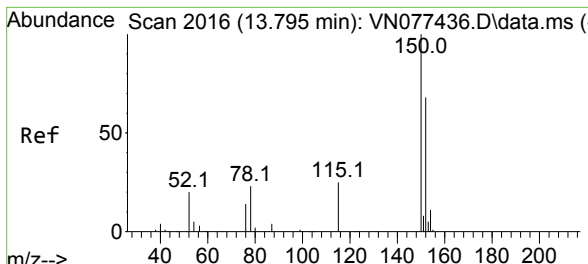
Tgt Ion: 95 Resp: 398477
Ion Ratio Lower Upper
95 100
174 70.0 0.0 143.8
176 68.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 117 Resp: 953108
Ion Ratio Lower Upper
117 100
82 57.2 44.0 66.0
119 32.3 25.6 38.4

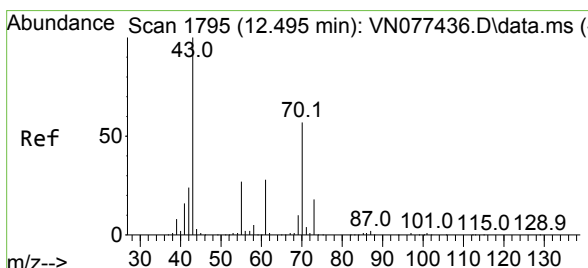
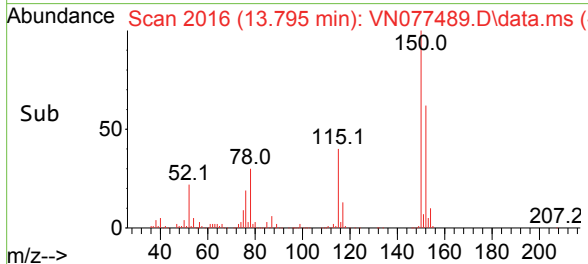
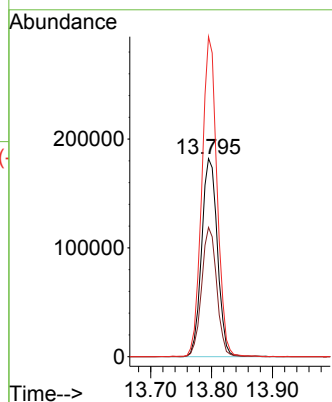
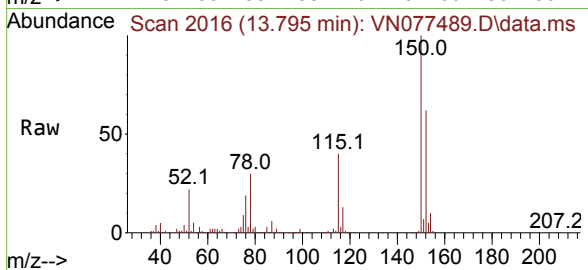




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.795 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN077489.D
 Acq: 27 Apr 2023 11:35

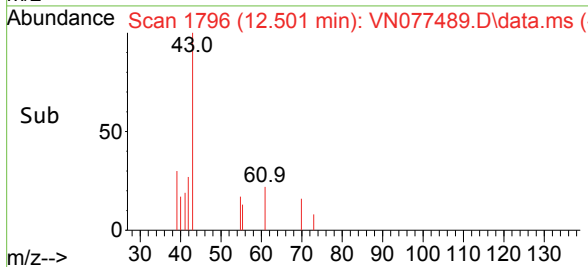
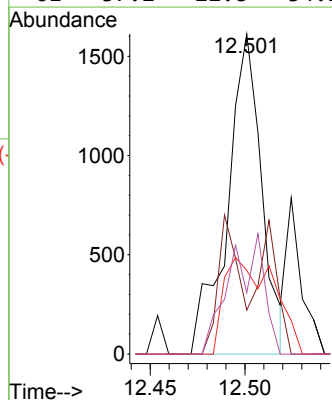
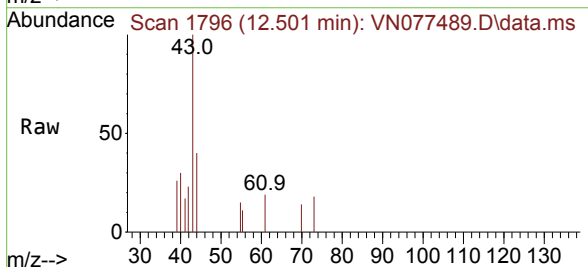
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-042623

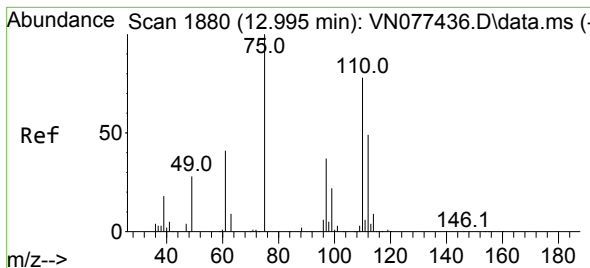
Tgt Ion:152 Resp: 326850
 Ion Ratio Lower Upper
 152 100
 115 62.6 32.3 96.8
 150 155.9 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.226 ug/l
 RT: 12.501 min Scan# 1796
 Delta R.T. 0.006 min
 Lab File: VN077489.D
 Acq: 27 Apr 2023 11:35

Tgt Ion: 43 Resp: 2030
 Ion Ratio Lower Upper
 43 100
 70 22.5 43.4 65.2#
 55 43.7 21.4 32.0#
 61 37.2 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 28.440 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

Instrument :

MSVOA_N

ClientSampleId :

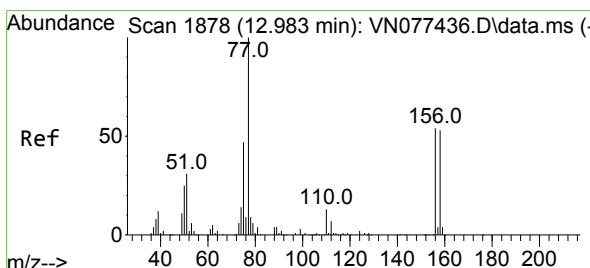
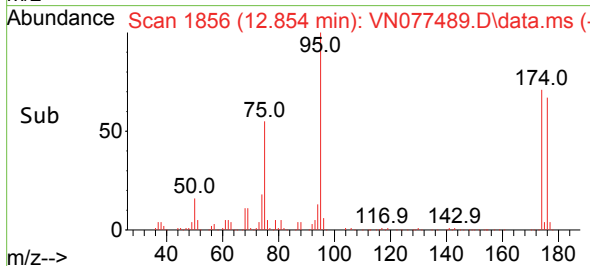
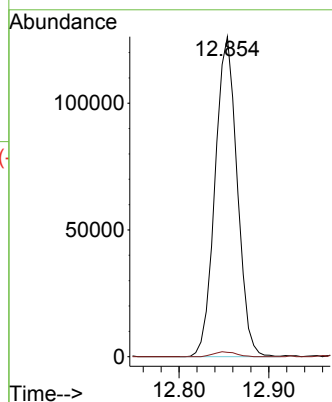
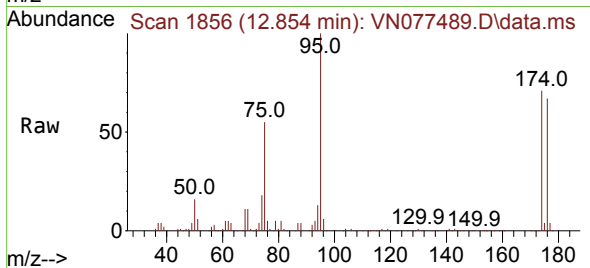
TB-01-042623

Tgt Ion: 75 Resp: 216161

Ion Ratio Lower Upper

75 100

77 1.6 84.5 253.5#



#77

Bromobenzene

Concen: 0.224 ug/l

RT: 12.983 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

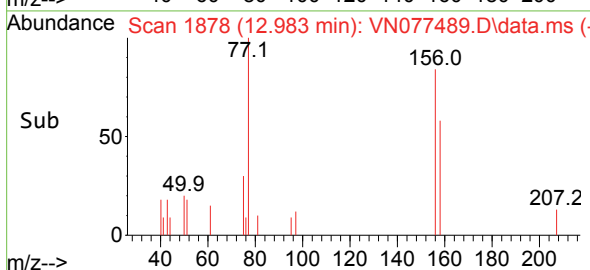
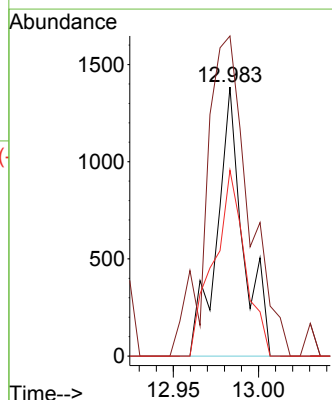
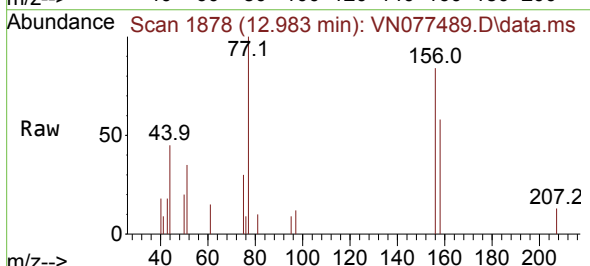
Tgt Ion:156 Resp: 1483

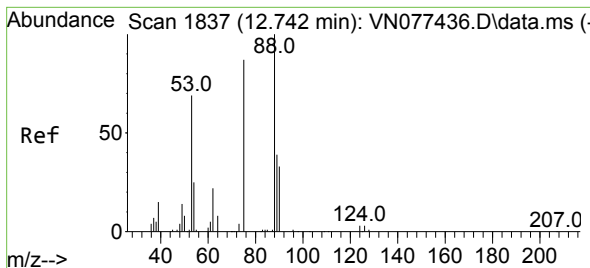
Ion Ratio Lower Upper

156 100

77 193.5 107.7 323.3

158 82.3 48.4 145.3

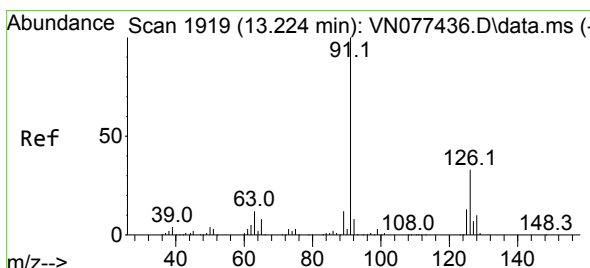
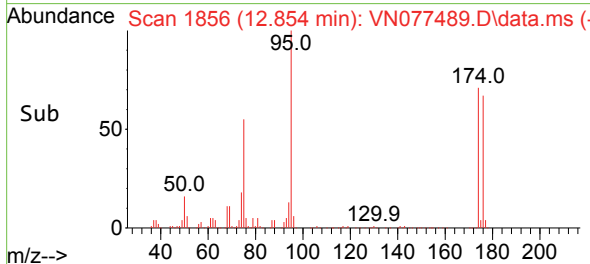
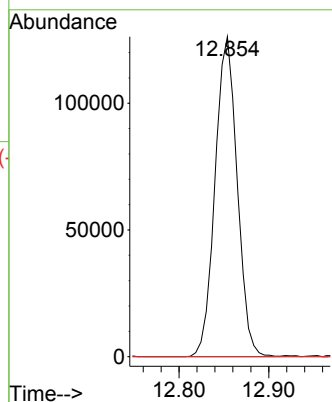
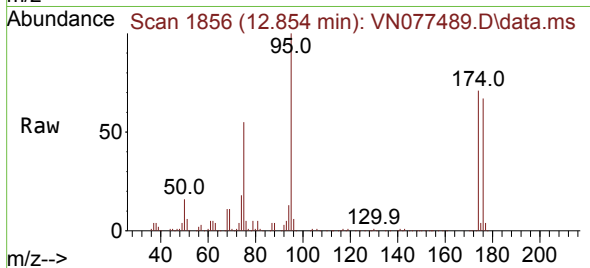




#81
trans-1,4-Dichloro-2-butene
Concen: 80.348 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

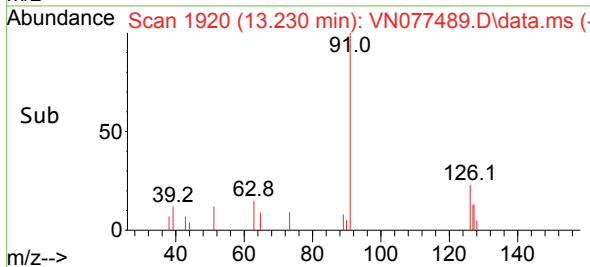
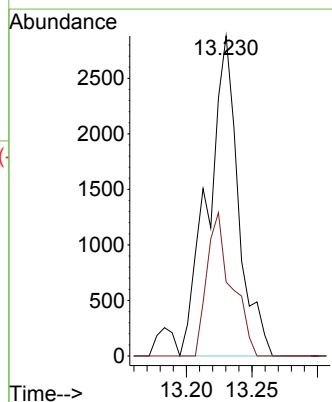
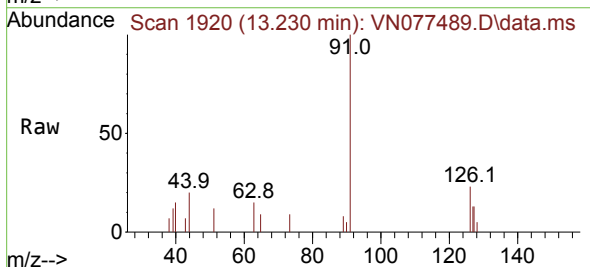
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

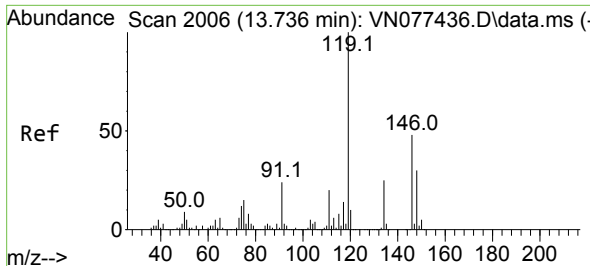
Tgt Ion: 75 Resp: 216161
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.239 ug/l
RT: 13.230 min Scan# 1920
Delta R.T. 0.006 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 91 Resp: 4626
Ion Ratio Lower Upper
91 100
126 36.6 16.7 50.0

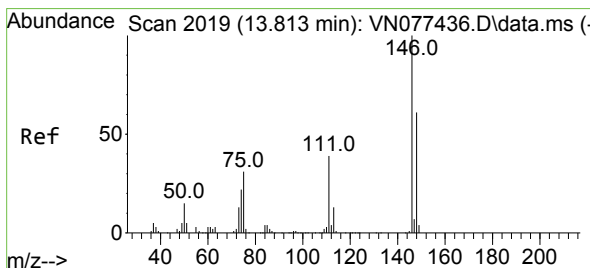
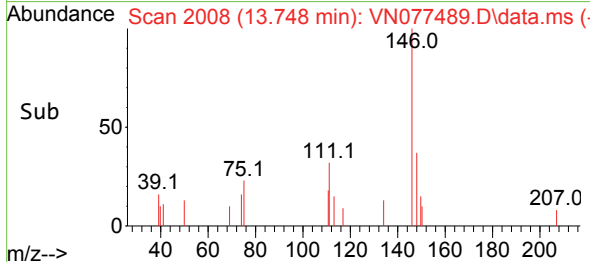
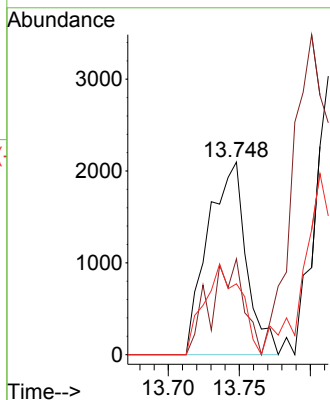
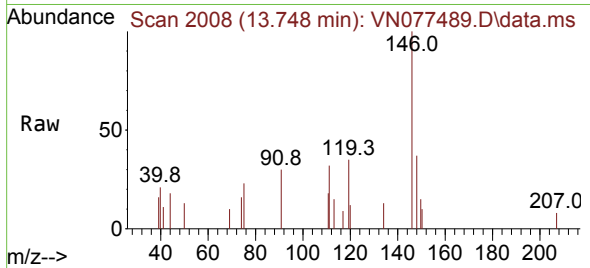




#87
1,3-Dichlorobenzene
Concen: 0.336 ug/l
RT: 13.748 min Scan# 2008
Delta R.T. 0.012 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

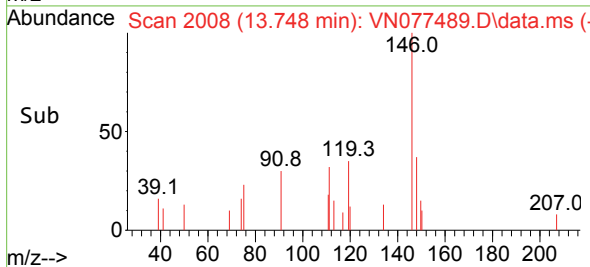
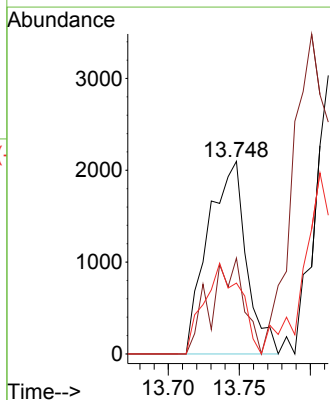
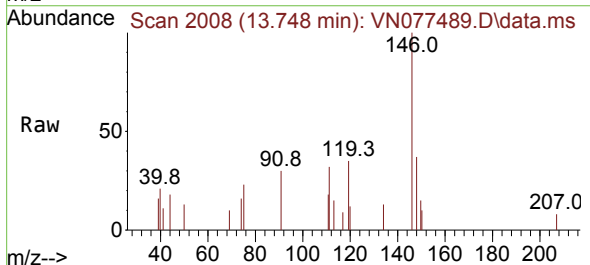
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

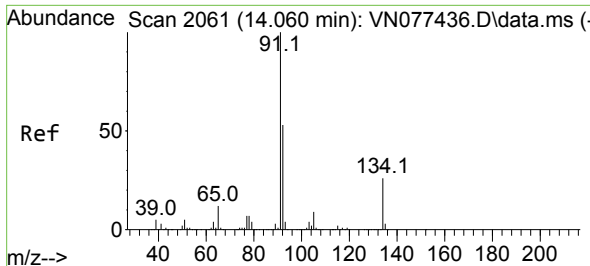
Tgt Ion:146 Resp: 3953
Ion Ratio Lower Upper
146 100
111 42.9 22.1 66.3
148 44.1 32.0 96.0



#88
1,4-Dichlorobenzene
Concen: 0.341 ug/l
RT: 13.748 min Scan# 2008
Delta R.T. -0.065 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion:146 Resp: 3953
Ion Ratio Lower Upper
146 100
111 42.9 20.6 61.8
148 44.1 31.6 94.8

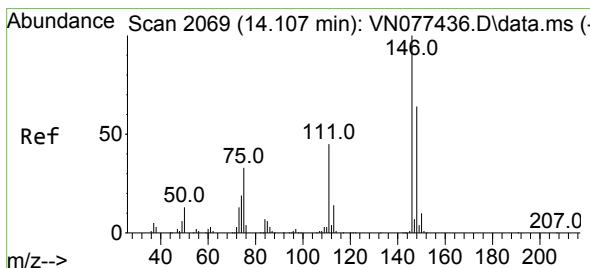
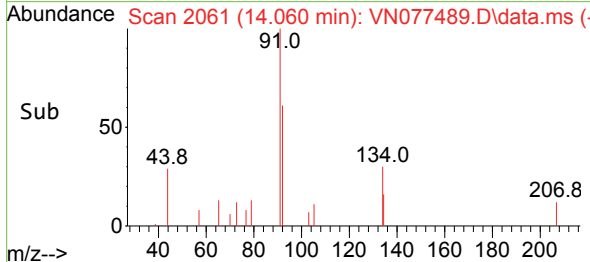
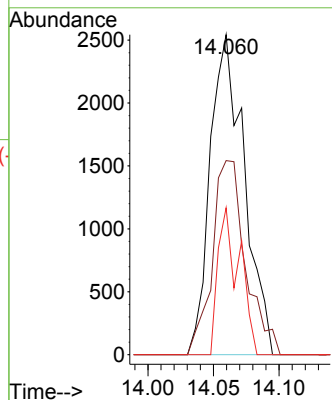
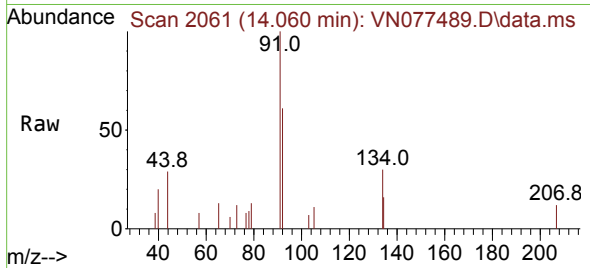




#89
n-Butylbenzene
Concen: 0.257 ug/l
RT: 14.060 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

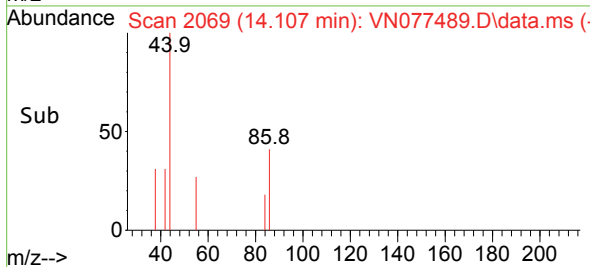
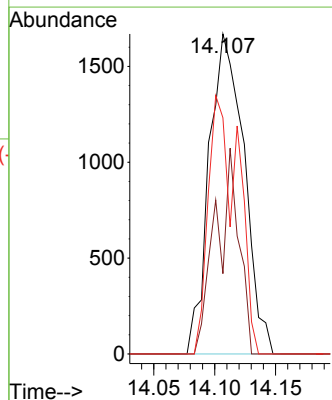
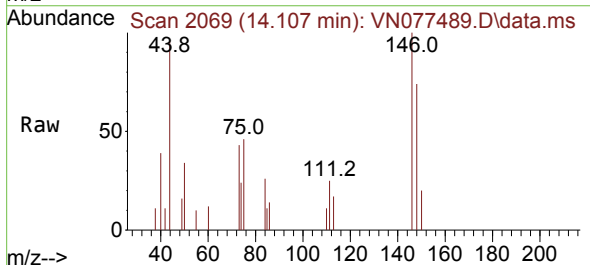
Instrument :
MSVOA_N
ClientSampleId :
TB-01-042623

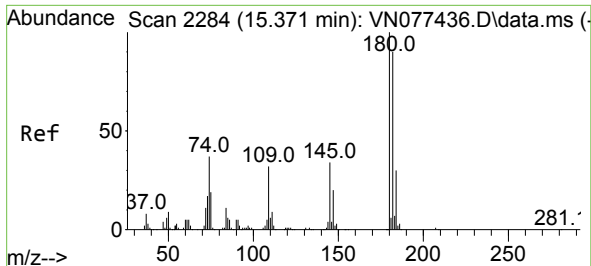
Tgt Ion: 91 Resp: 4597
Ion Ratio Lower Upper
91 100
92 59.4 26.4 79.0
134 29.0 12.6 37.6



#91
1,2-Dichlorobenzene
Concen: 0.285 ug/l
RT: 14.107 min Scan# 2069
Delta R.T. -0.000 min
Lab File: VN077489.D
Acq: 27 Apr 2023 11:35

Tgt Ion: 146 Resp: 3322
Ion Ratio Lower Upper
146 100
111 42.7 22.0 66.0
148 68.8 31.8 95.3

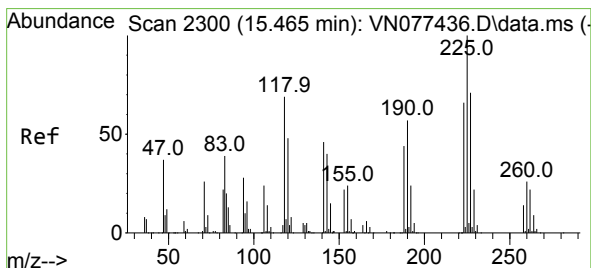
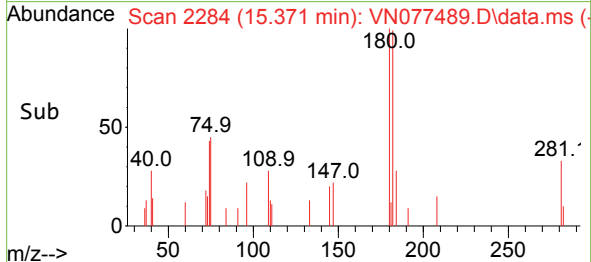
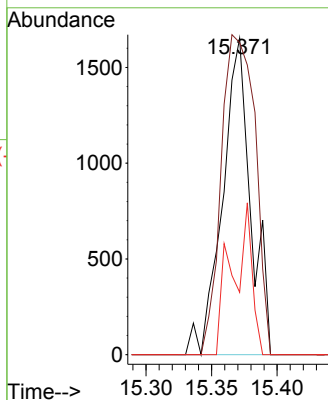
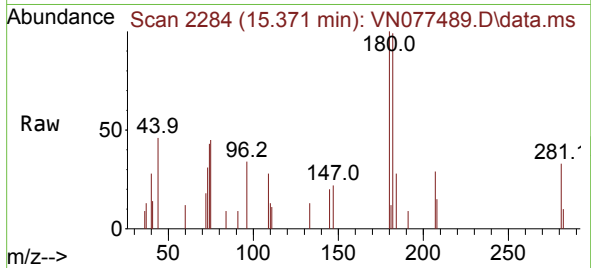




#93
 1,2,4-Trichlorobenzene
 Concen: 1.832 ug/l
 RT: 15.371 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN077489.D
 Acq: 27 Apr 2023 11:35

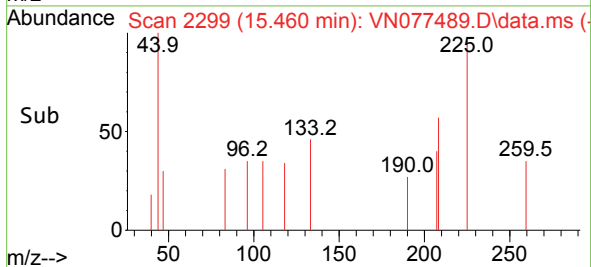
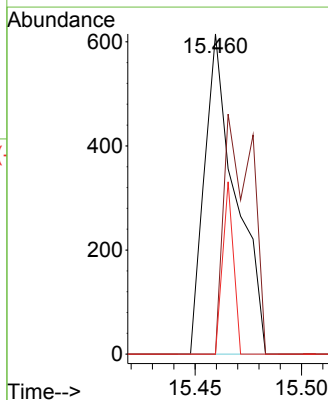
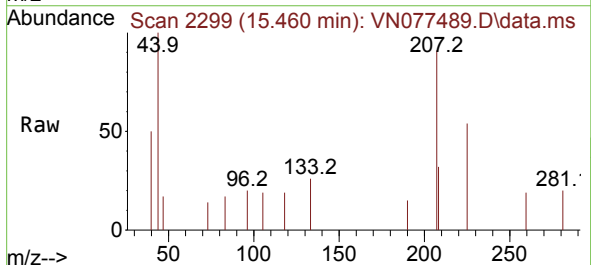
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-042623

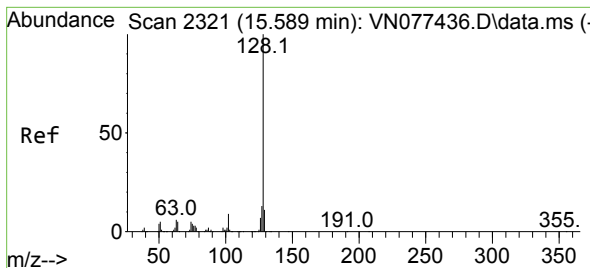
Tgt Ion:180	Resp:	2477
Ion Ratio	Lower	Upper
180	100	
182	121.5	46.1 138.2
145	18.8	16.6 49.8



#94
 Hexachlorobutadiene
 Concen: 0.267 ug/l
 RT: 15.460 min Scan# 2299
 Delta R.T. -0.005 min
 Lab File: VN077489.D
 Acq: 27 Apr 2023 11:35

Tgt Ion:225	Resp:	628
Ion Ratio	Lower	Upper
225	100	
223	66.2	31.3 93.8
227	18.6	31.9 95.9





#95

Naphthalene

Concen: 2.522 ug/l

RT: 15.589 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

Instrument :

MSVOA_N

ClientSampleId :

TB-01-042623

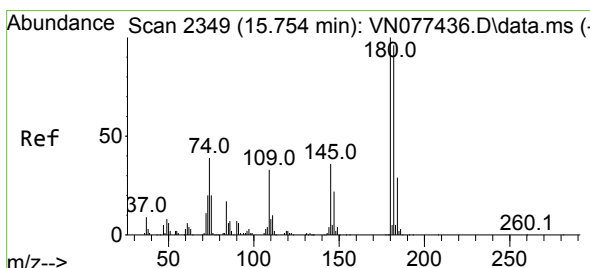
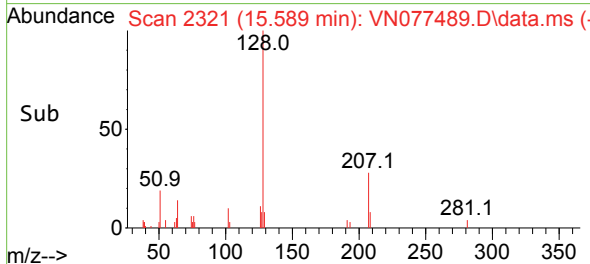
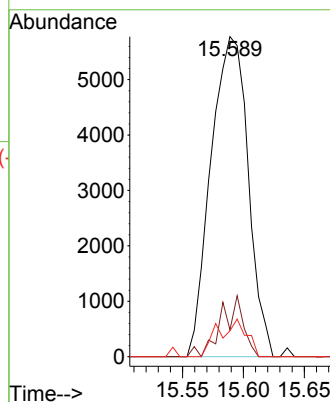
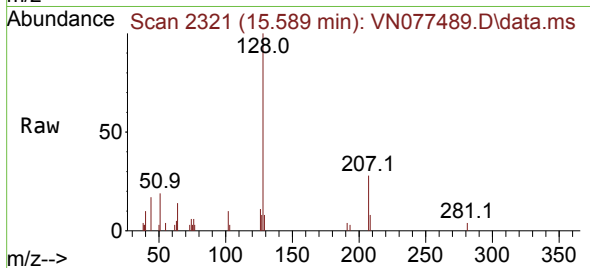
Tgt Ion:128 Resp: 12291

Ion Ratio Lower Upper

128 100

127 11.4 10.0 15.0

129 8.9 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 2.146 ug/l

RT: 15.760 min Scan# 2350

Delta R.T. 0.006 min

Lab File: VN077489.D

Acq: 27 Apr 2023 11:35

Tgt Ion:180 Resp: 3681

Ion Ratio Lower Upper

180 100

182 87.2 46.2 138.6

145 41.9 17.5 52.6

