

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053123\
 Data File : VN077989.D
 Acq On : 31 May 2023 13:43
 Operator : JC\MD
 Sample : 02943-03 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20230523

Quant Time: Jun 01 01:51:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

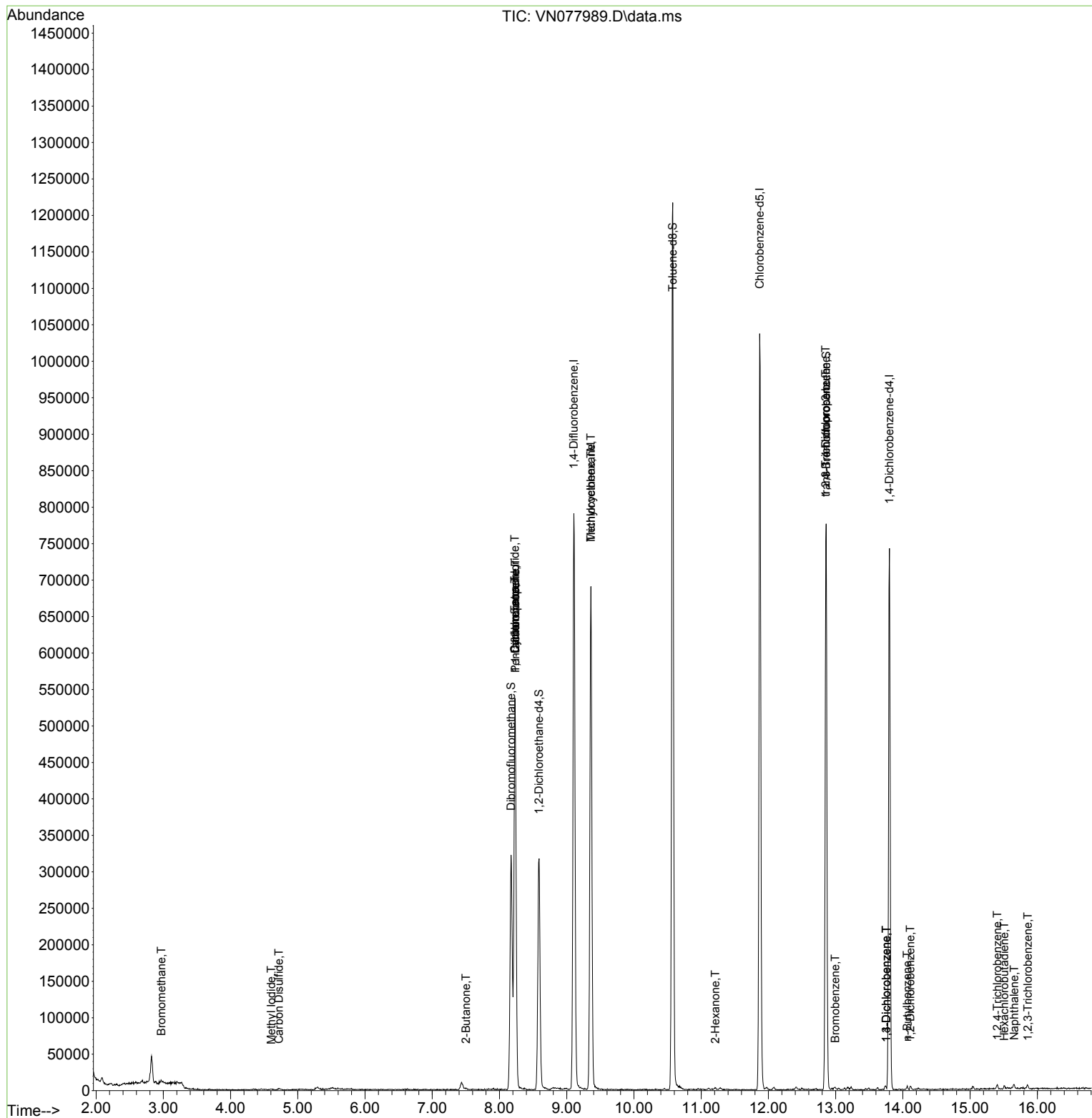
Internal Standards						
1) Pentafluorobenzene	8.236	168	382608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	706675	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	620098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	195799	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	267691	46.760	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.520%			
35) Dibromofluoromethane	8.171	113	231681	50.276	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.560%			
50) Toluene-d8	10.577	98	887192	50.019	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.040%			
62) 4-Bromofluorobenzene	12.859	95	287014	45.817	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 91.640%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1195	Below Cal	#	76
5) Bromomethane	2.971	94	2444	0.602	ug/l #	72
10) Methyl Iodide	4.606	142	1872	0.371	ug/l #	73
13) Acrolein	4.201	56	157	Below Cal	#	16
17) Carbon Disulfide	4.718	76	3533	0.326	ug/l #	75
20) Methylene Chloride	5.289	84	2349	Below Cal	#	84
25) 2-Butanone	7.500	43	913	0.324	ug/l #	37
31) Cyclohexane	8.230	56	8543	1.098	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	31891	4.732	ug/l #	50
38) Carbon Tetrachloride	8.230	117	43457	6.385	ug/l #	17
39) Methylcyclohexane	9.359	83	4304	0.522	ug/l #	1
44) Trichloroethene	9.359	130	246270	48.899	ug/l	98
59) 2-Hexanone	11.212	43	2151	0.499	ug/l	88
76) 1,2,3-Trichloropropane	12.853	75	150004	30.591	ug/l #	1
77) Bromobenzene	12.994	156	805	0.209	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.853	75	150004	97.785	ug/l #	15
87) 1,3-Dichlorobenzene	13.753	146	1904	0.267	ug/l	84
88) 1,4-Dichlorobenzene	13.753	146	1904	0.269	ug/l	85
89) n-Butylbenzene	14.065	91	2814	0.218	ug/l	100
91) 1,2-Dichlorobenzene	14.112	146	1817	0.273	ug/l	89
93) 1,2,4-Trichlorobenzene	15.406	180	2019	0.519	ug/l	91
94) Hexachlorobutadiene	15.506	225	570	0.353	ug/l	82
95) Naphthalene	15.659	128	5440	0.406	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.859	180	2196	0.577	ug/l	91

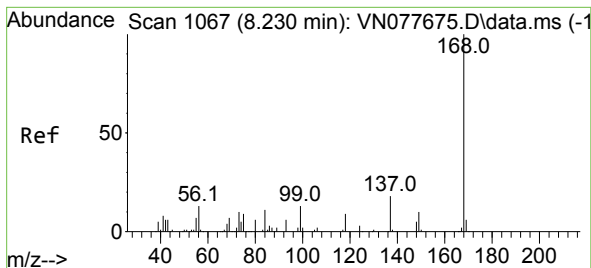
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053123\
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Acq On : 31 May 2023 13:43
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Instrument :
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Quant Time: Jun 01 01:51:10 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
Quant Title : SW846 8260
QLast Update : Tue May 16 04:07:42 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

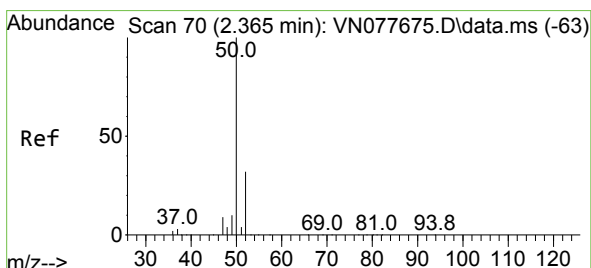
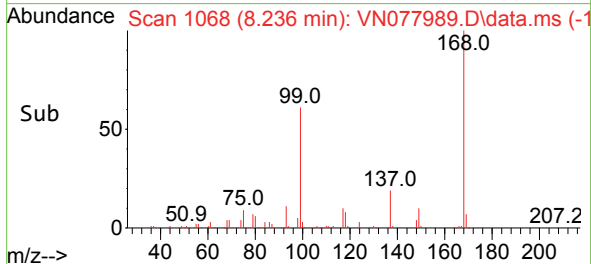
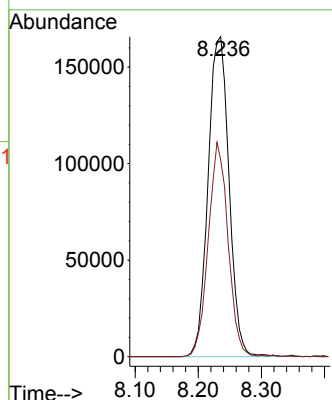
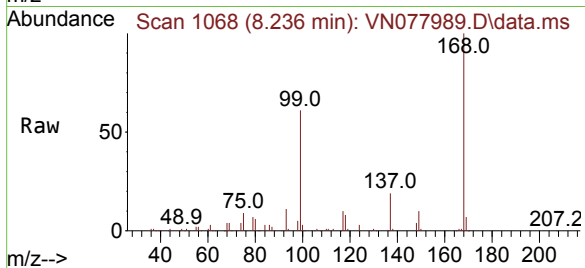
RE108D2-20230523

Tgt Ion:168 Resp: 382608

Ion Ratio Lower Upper

168 100

99 61.4 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.000 min

Lab File: VN077989.D

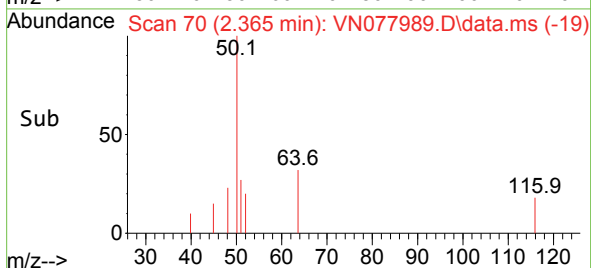
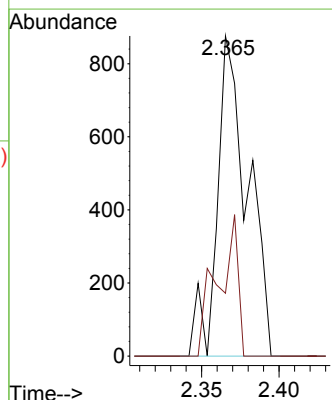
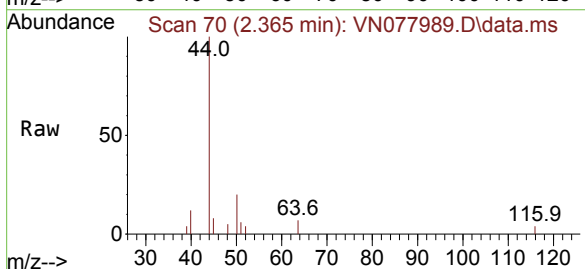
Acq: 31 May 2023 13:43

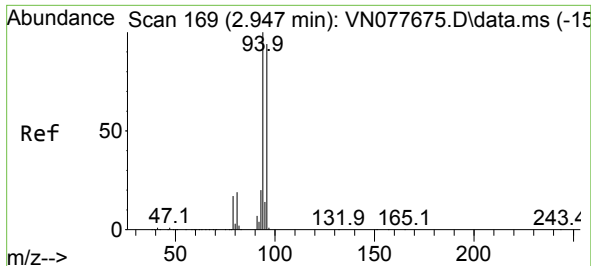
Tgt Ion: 50 Resp: 1195

Ion Ratio Lower Upper

50 100

52 19.6 26.5 39.7#

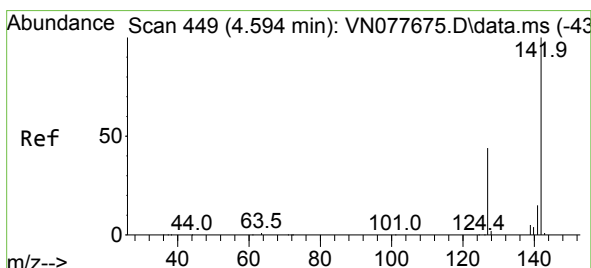
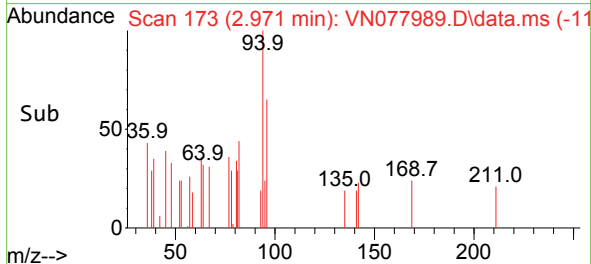
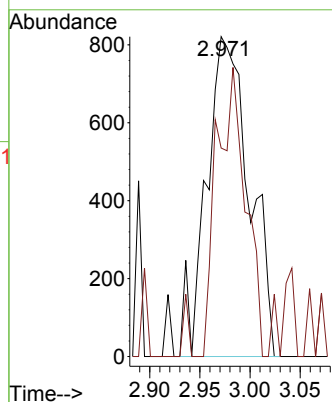
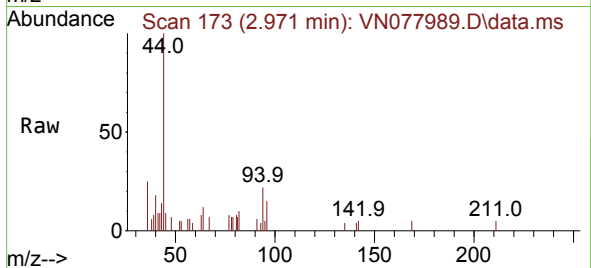




#5
Bromomethane
Concen: 0.602 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

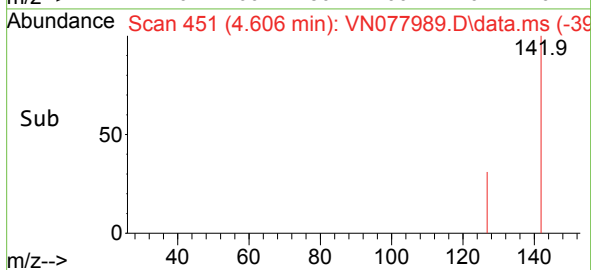
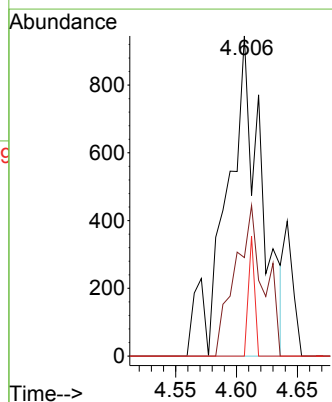
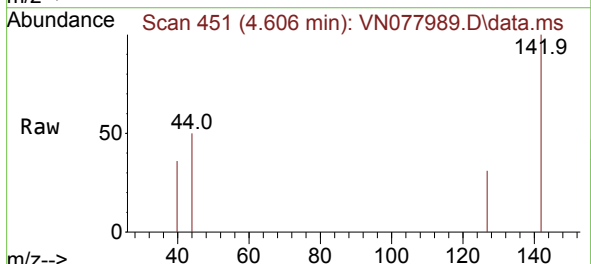
Instrument :
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RE108D2-20230523

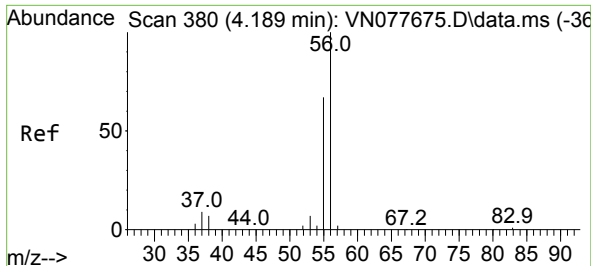
Tgt Ion: 94 Resp: 2444
Ion Ratio Lower Upper
94 100
96 65.2 73.1 109.7#



#10
Methyl Iodide
Concen: 0.371 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.012 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Tgt Ion: 142 Resp: 1872
Ion Ratio Lower Upper
142 100
127 30.8 37.6 56.4#
141 0.0 11.4 17.0#

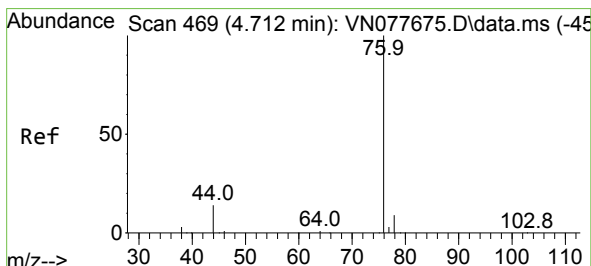
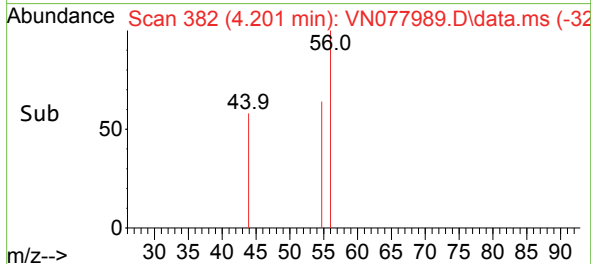
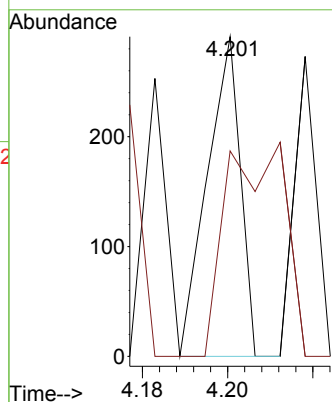
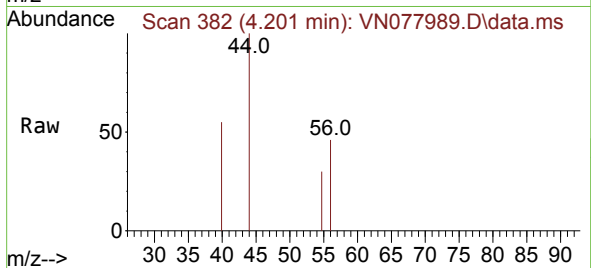




#13
Acrolein
Concen: Below Cal
RT: 4.201 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

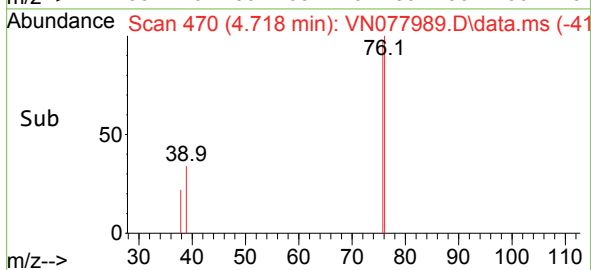
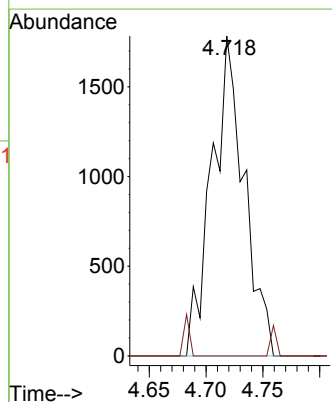
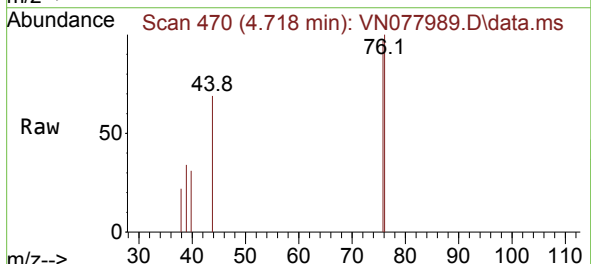
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523

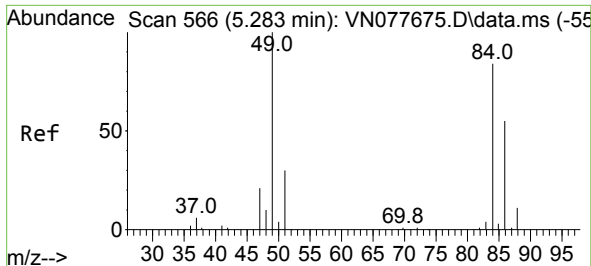
Tgt Ion: 56 Resp: 157
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#17
Carbon Disulfide
Concen: 0.326 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

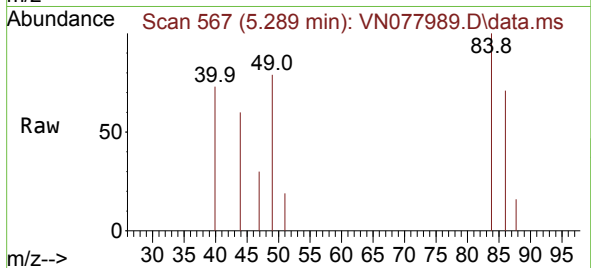
Tgt Ion: 76 Resp: 3533
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



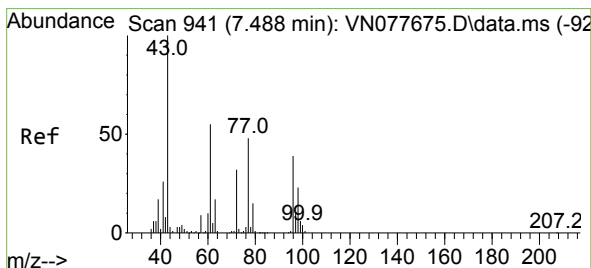
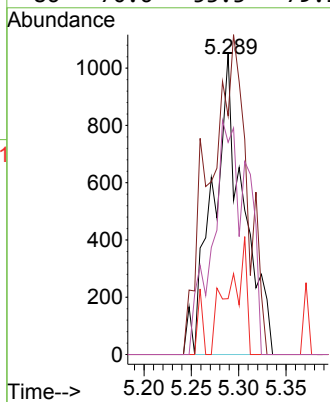
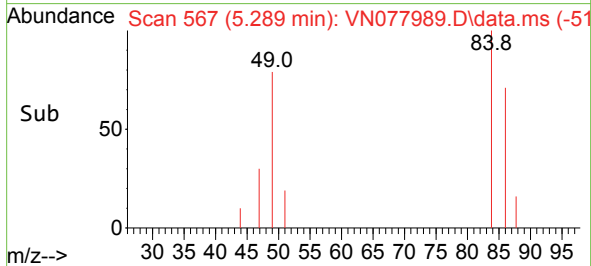


#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 501
Delta R.T. 0.006 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

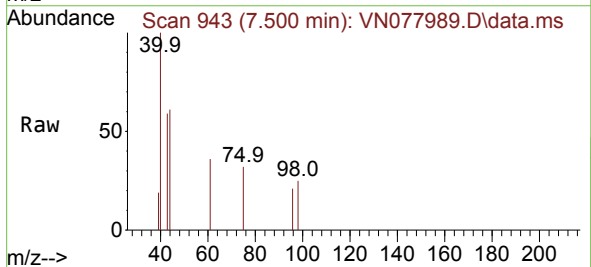
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523



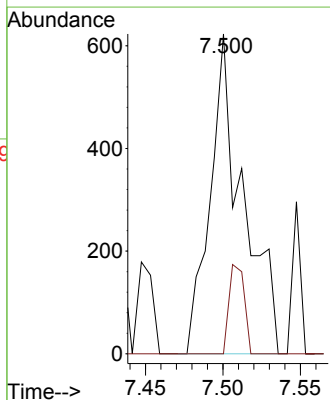
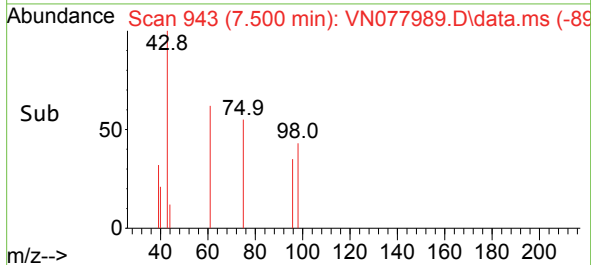
Tgt Ion: 84 Resp: 2349
Ion Ratio Lower Upper
84 100
49 79.4 79.7 119.5#
51 18.6 25.2 37.8#
86 70.6 53.3 79.9

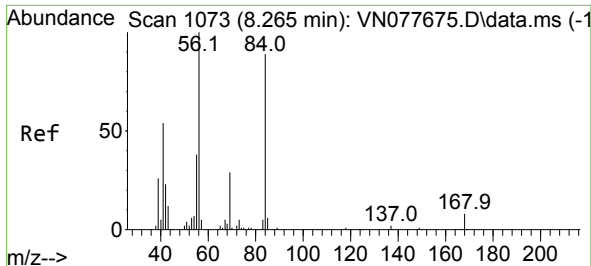


#25
2-Butanone
Concen: 0.324 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43



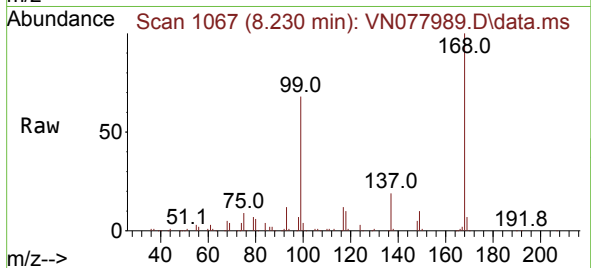
Tgt Ion: 43 Resp: 913
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



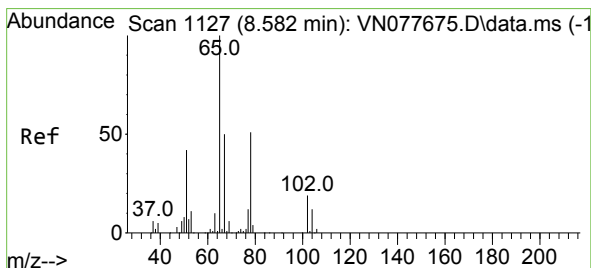
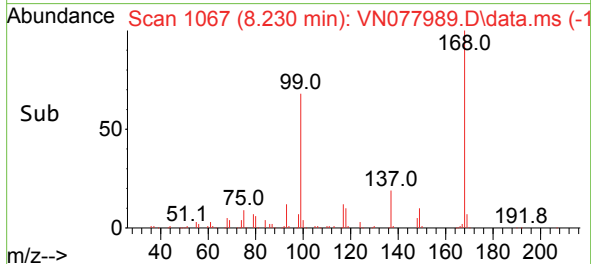
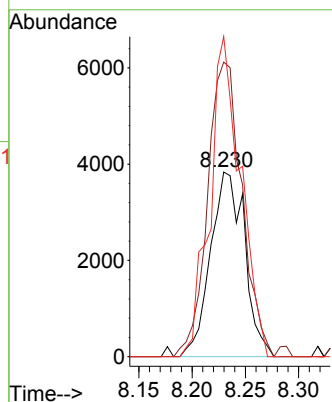


#31
Cyclohexane
Concen: 1.098 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523

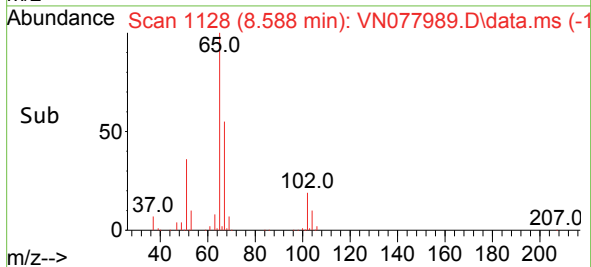
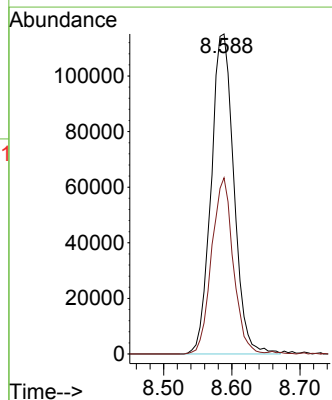
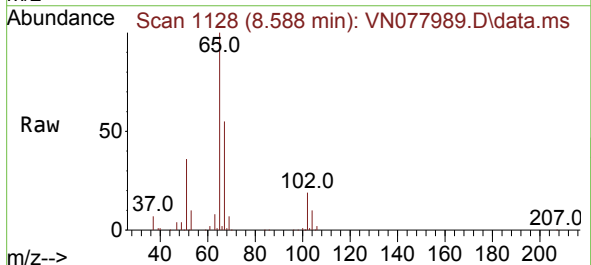


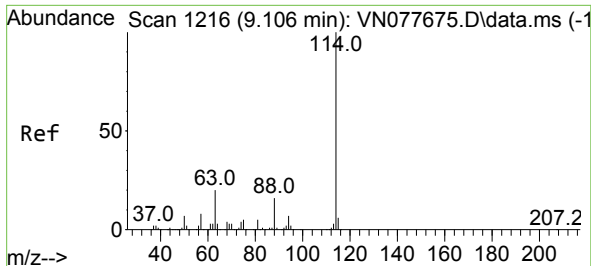
Tgt Ion: 56 Resp: 8543
Ion Ratio Lower Upper
56 100
69 154.9 26.8 40.2#
84 173.3 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 46.760 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Tgt Ion: 65 Resp: 267691
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.6

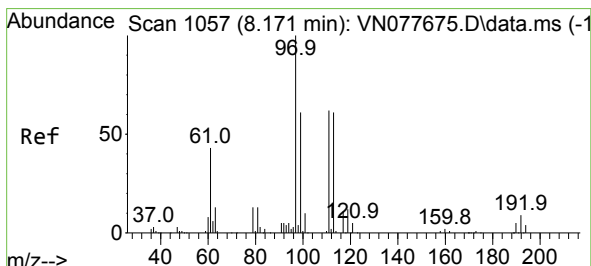
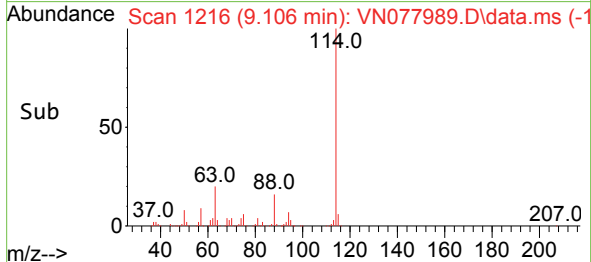
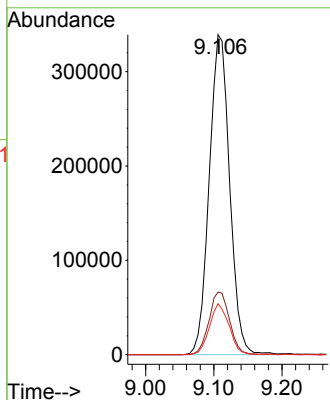
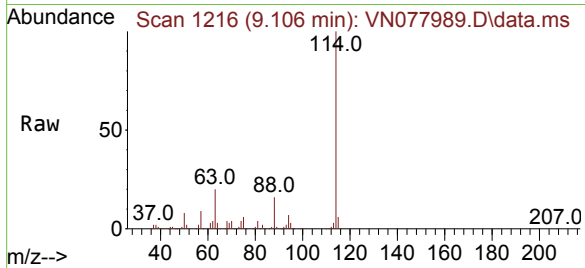




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

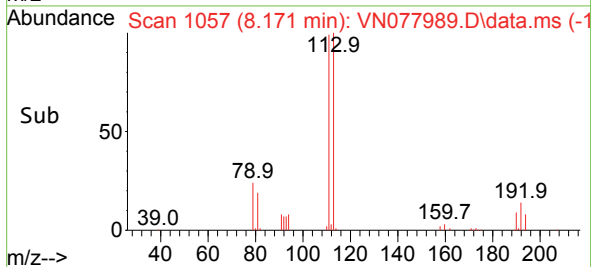
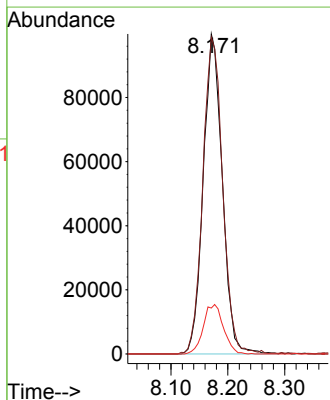
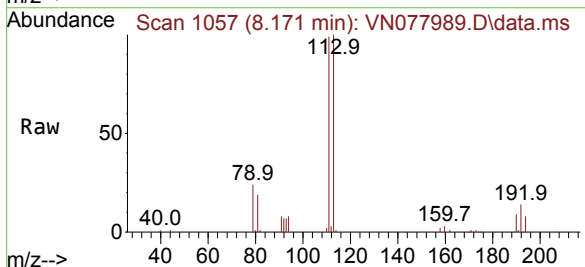
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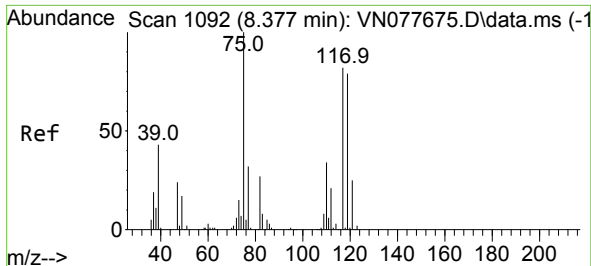
Tgt Ion:114 Resp: 706675
Ion Ratio Lower Upper
114 100
63 19.6 0.0 36.4
88 16.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.276 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

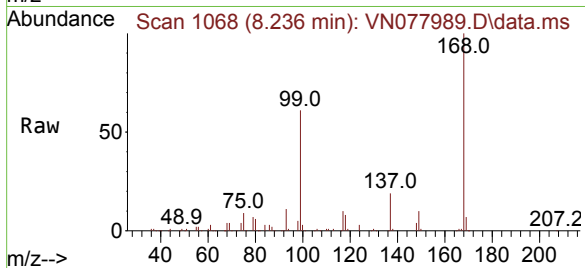
Tgt Ion:113 Resp: 231681
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 16.4 12.7 19.1



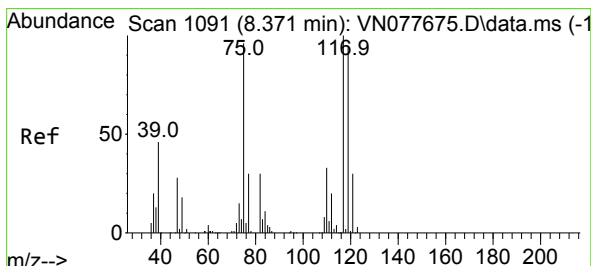
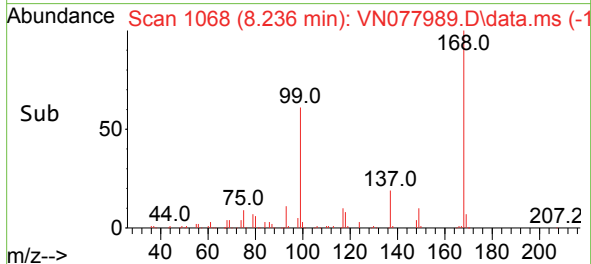
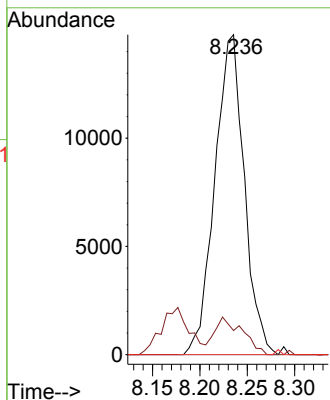


#36
1,1-Dichloropropene
Concen: 4.732 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523

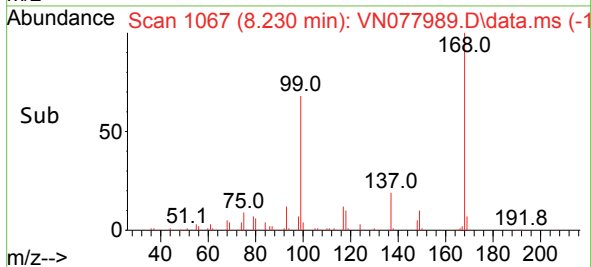
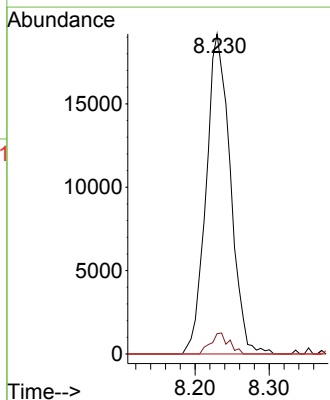
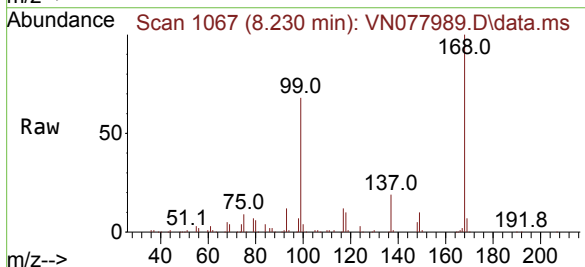


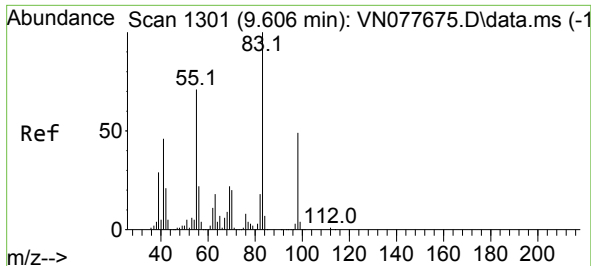
Tgt Ion: 75 Resp: 31891
Ion Ratio Lower Upper
75 100
110 11.1 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.385 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Tgt Ion: 117 Resp: 43457
Ion Ratio Lower Upper
117 100
119 6.4 77.3 115.9#
121 0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.522 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.247 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20230523

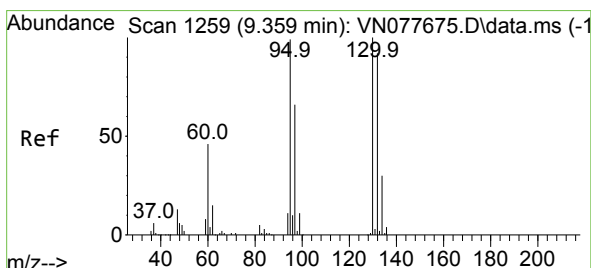
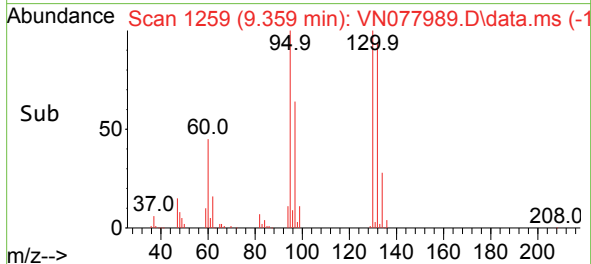
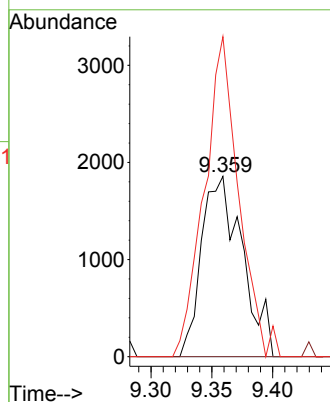
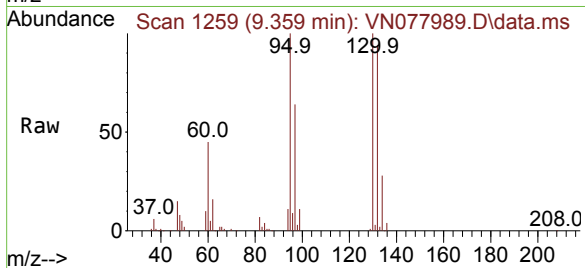
Tgt Ion: 83 Resp: 4304

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 177.5 40.6 61.0#



#44

Trichloroethene

Concen: 48.899 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VN077989.D

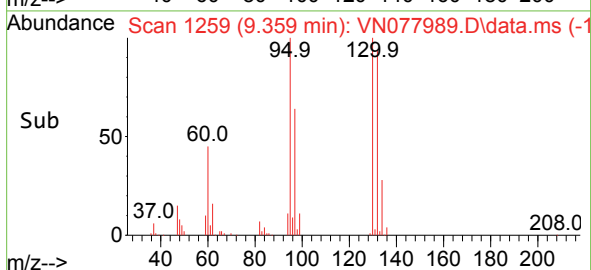
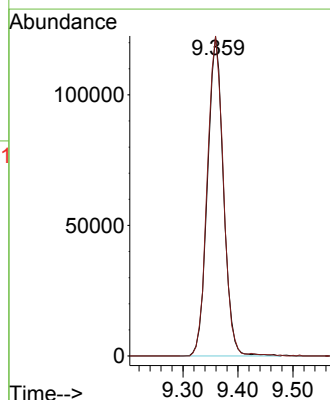
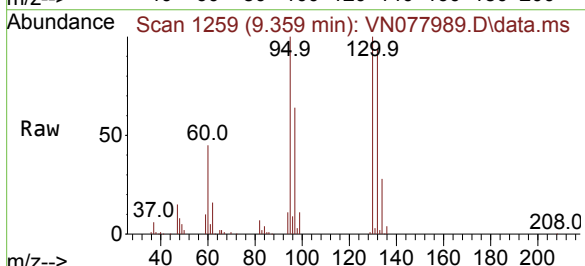
Acq: 31 May 2023 13:43

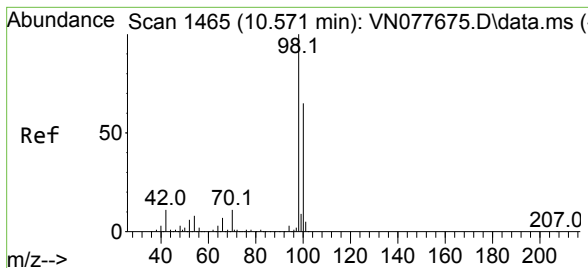
Tgt Ion:130 Resp: 246270

Ion Ratio Lower Upper

130 100

95 100.1 0.0 204.6

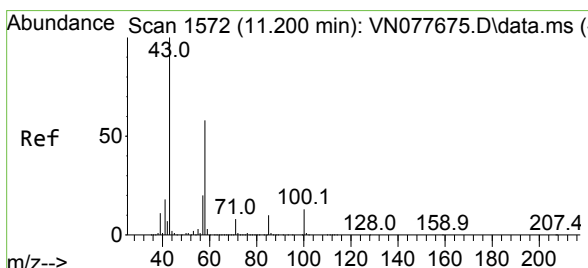
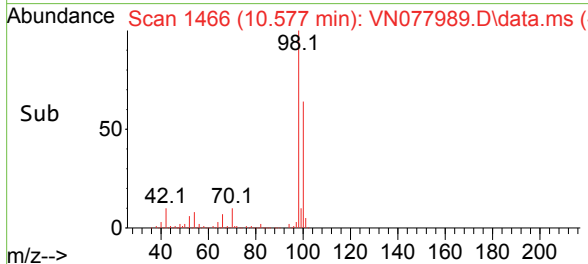
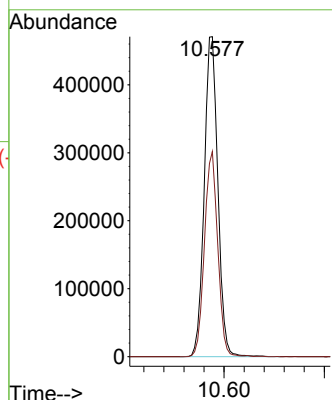
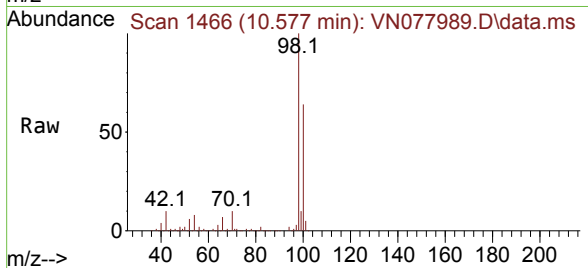




#50
Toluene-d8
Concen: 50.019 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

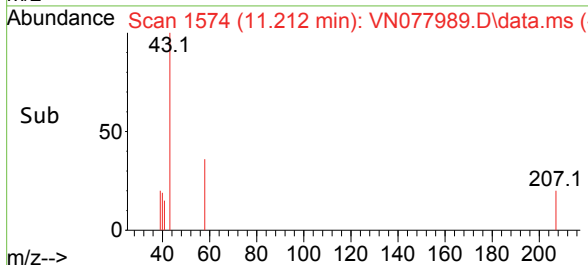
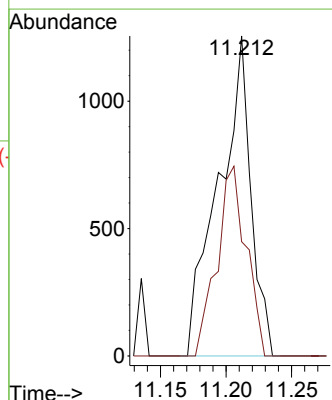
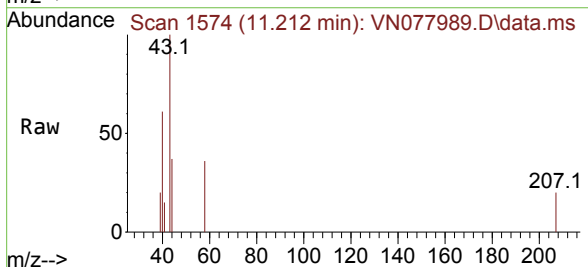
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523

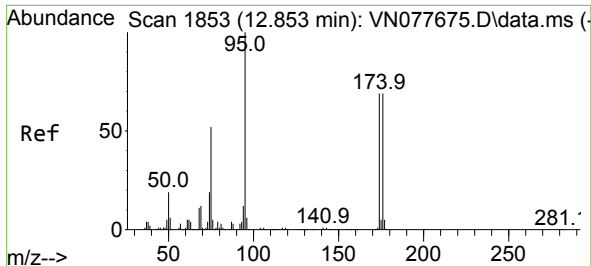
Tgt Ion: 98 Resp: 887192
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0



#59
2-Hexanone
Concen: 0.499 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Tgt Ion: 43 Resp: 2151
Ion Ratio Lower Upper
43 100
58 53.7 31.7 95.1

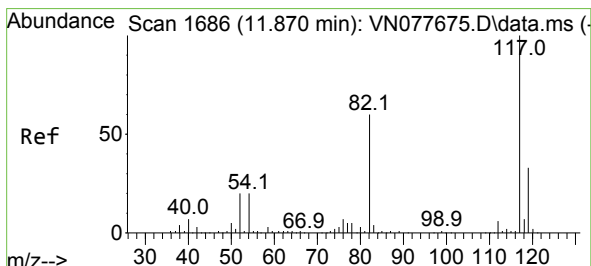
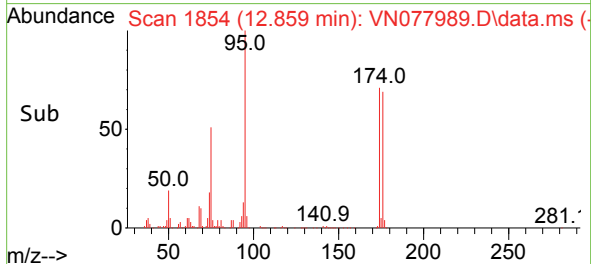
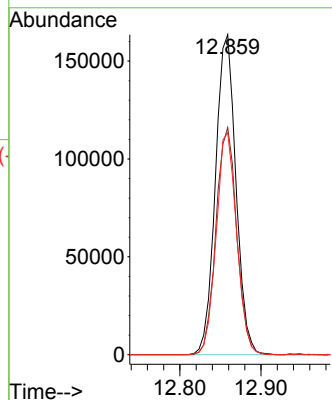
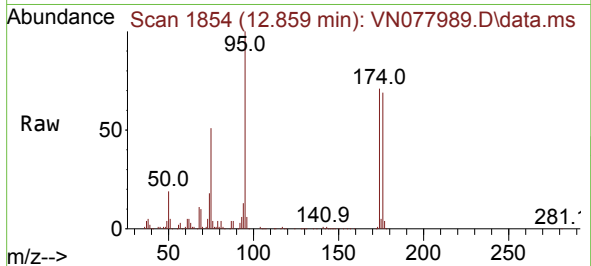




#62
4-Bromofluorobenzene
Concen: 45.817 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

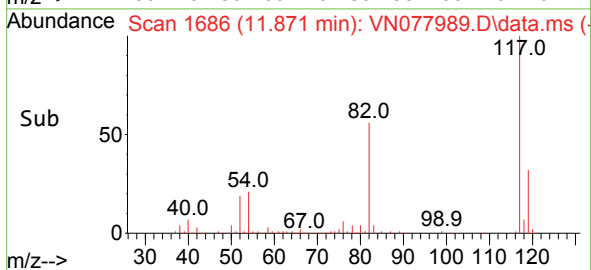
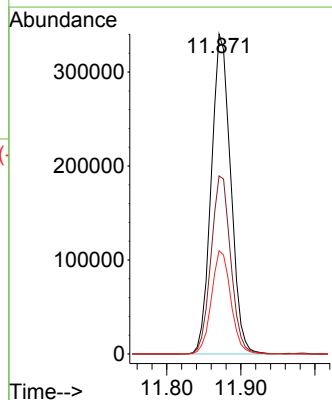
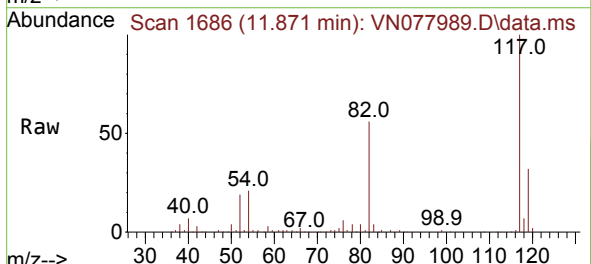
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523

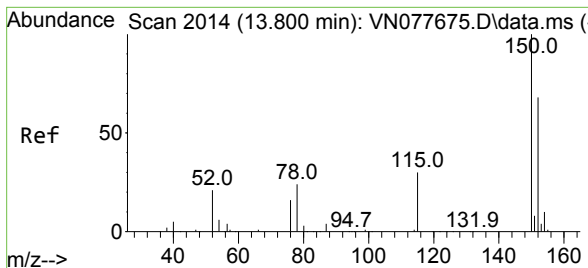
Tgt Ion: 95 Resp: 287014
Ion Ratio Lower Upper
95 100
174 71.7 0.0 143.8
176 69.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

Tgt Ion: 117 Resp: 620098
Ion Ratio Lower Upper
117 100
82 55.7 44.0 66.0
119 32.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20230523

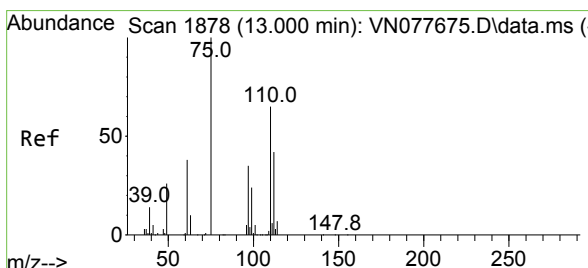
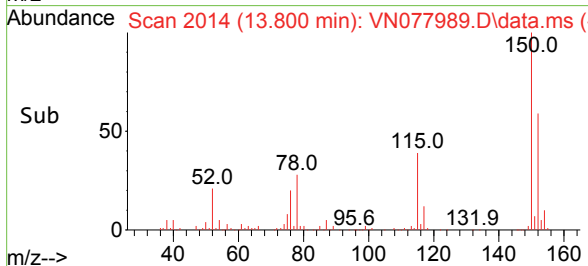
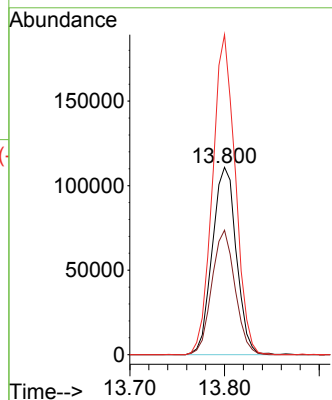
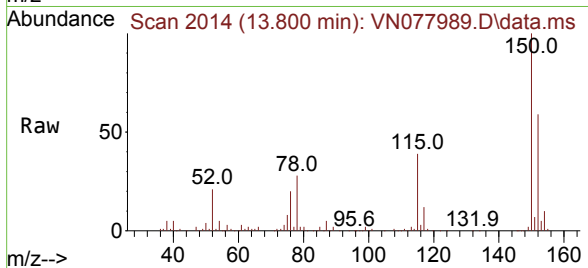
Tgt Ion:152 Resp: 195799

Ion Ratio Lower Upper

152 100

115 64.1 32.3 96.8

150 161.4 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 30.591 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN077989.D

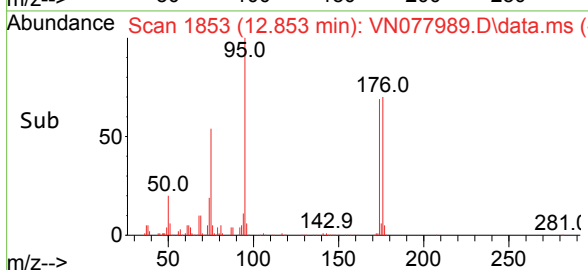
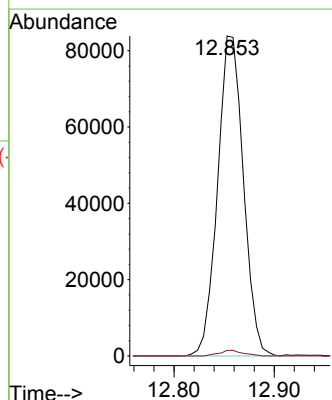
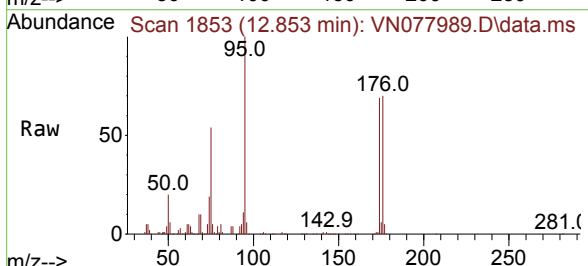
Acq: 31 May 2023 13:43

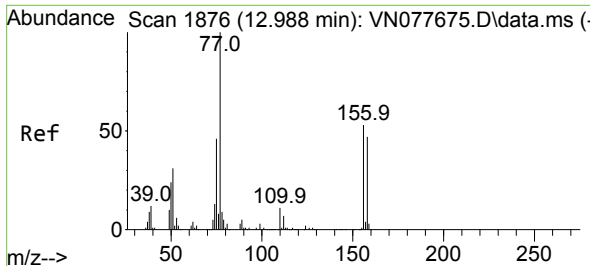
Tgt Ion: 75 Resp: 150004

Ion Ratio Lower Upper

75 100

77 1.6 84.5 253.5#

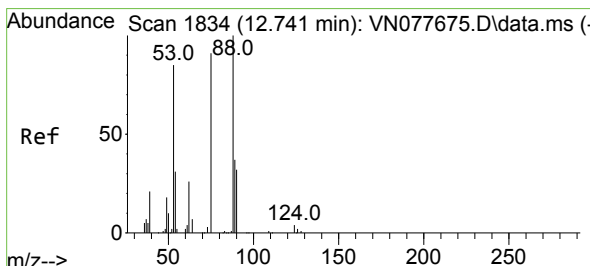
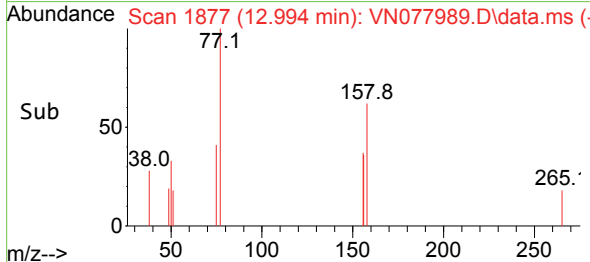
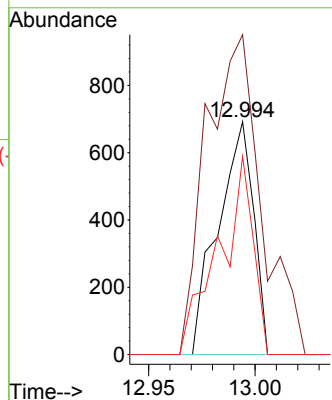
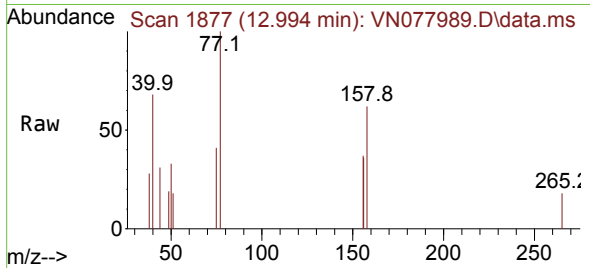




#77
Bromobenzene
Concen: 0.209 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

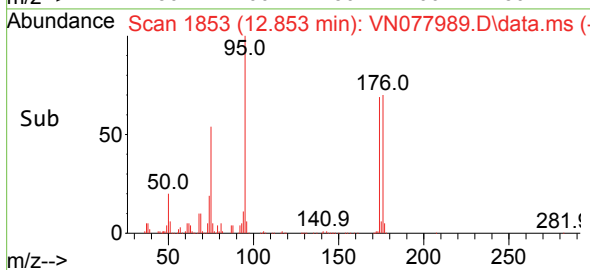
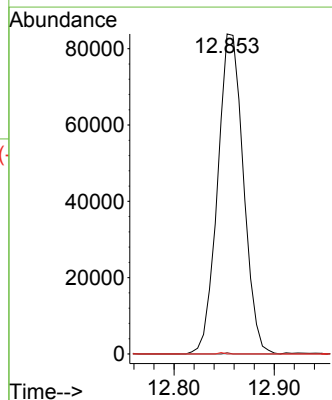
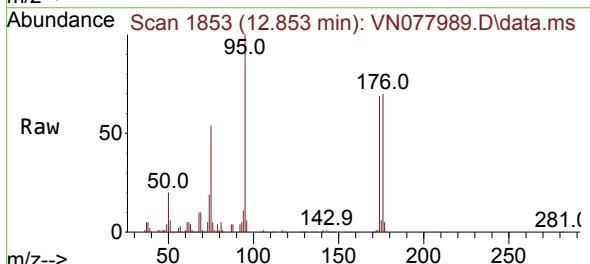
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523

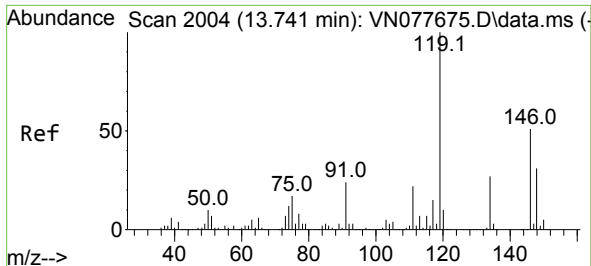
Tgt Ion:156 Resp: 805
Ion Ratio Lower Upper
156 100
77 210.4 107.7 323.3
158 82.0 48.4 145.3



#81
trans-1,4-Dichloro-2-butene
Concen: 97.785 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

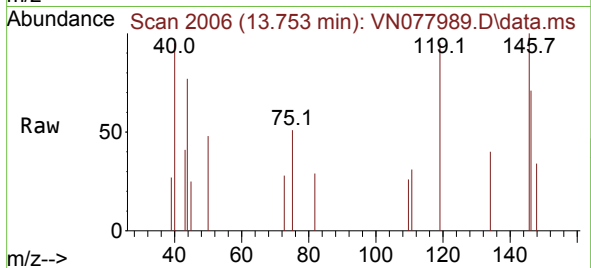
Tgt Ion: 75 Resp: 150004
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#



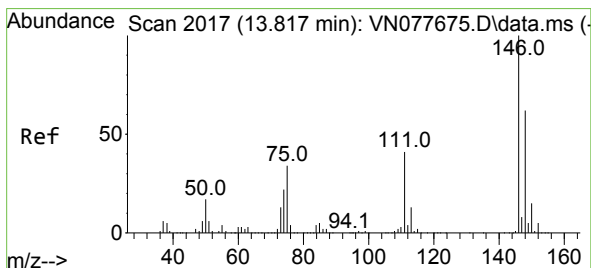
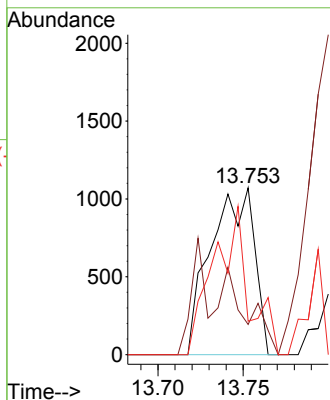
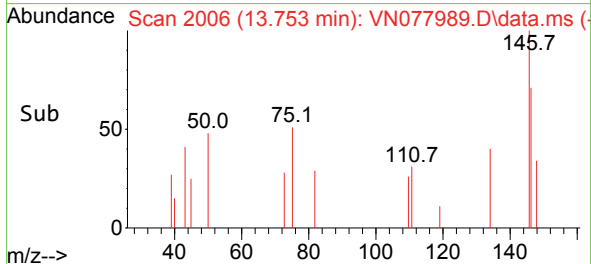


#87
1,3-Dichlorobenzene
Concen: 0.267 ug/l
RT: 13.753 min Scan# 2006
Delta R.T. 0.012 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43

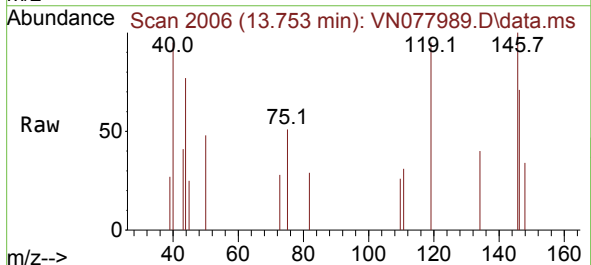
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20230523



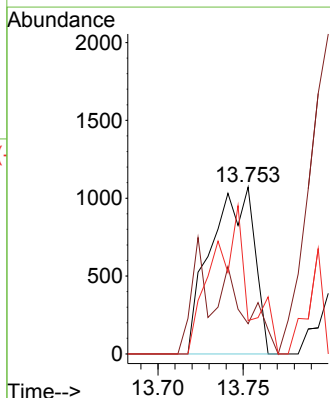
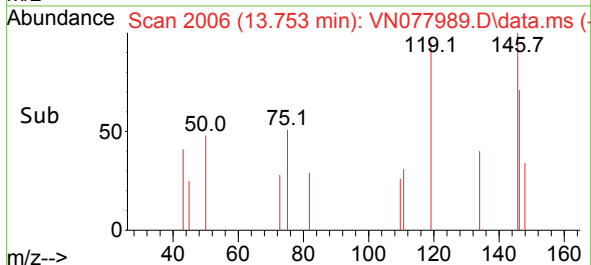
Tgt Ion:146 Resp: 1904
Ion Ratio Lower Upper
146 100
111 28.3 22.1 66.3
148 71.4 32.0 96.0

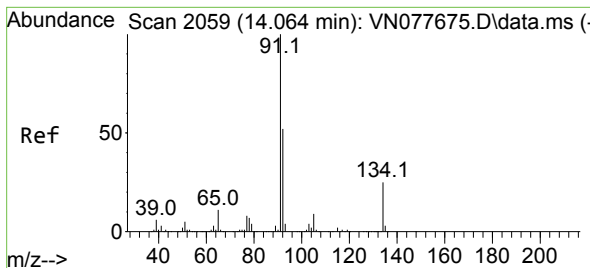


#88
1,4-Dichlorobenzene
Concen: 0.269 ug/l
RT: 13.753 min Scan# 2006
Delta R.T. -0.064 min
Lab File: VN077989.D
Acq: 31 May 2023 13:43



Tgt Ion:146 Resp: 1904
Ion Ratio Lower Upper
146 100
111 28.3 20.6 61.8
148 71.4 31.6 94.8





#89

n-Butylbenzene

Concen: 0.218 ug/l

RT: 14.065 min Scan# 2059

Delta R.T. 0.001 min

Lab File: VN077989.D

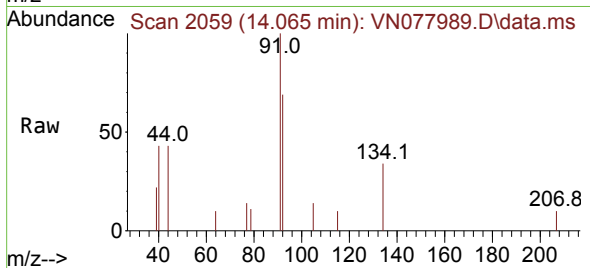
Acq: 31 May 2023 13:43

Instrument :

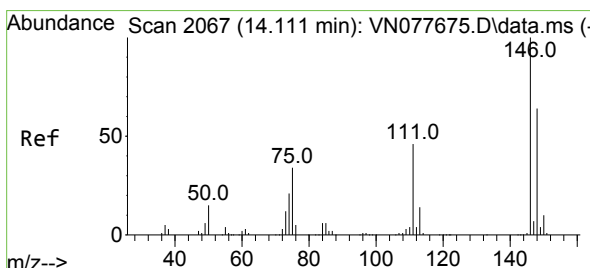
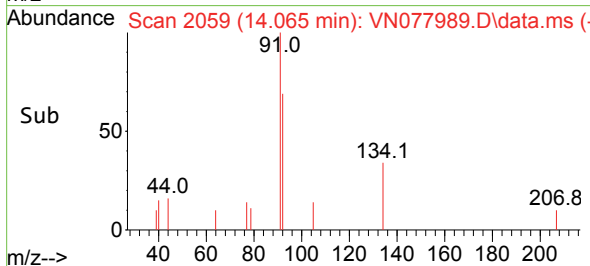
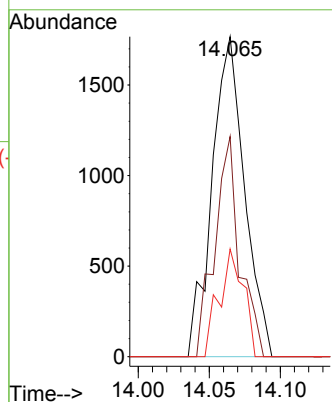
MSVOA_N

ClientSampleId :

RE108D2-20230523



Tgt Ion:	91	Resp:	2814
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.4	79.0
134	25.2	12.6	37.6



#91

1,2-Dichlorobenzene

Concen: 0.273 ug/l

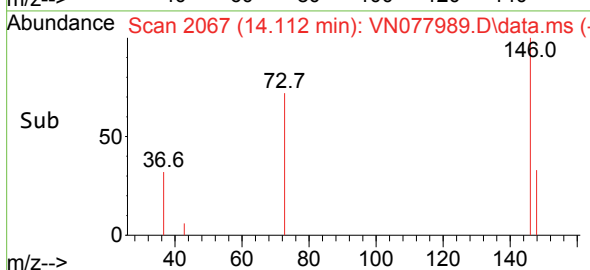
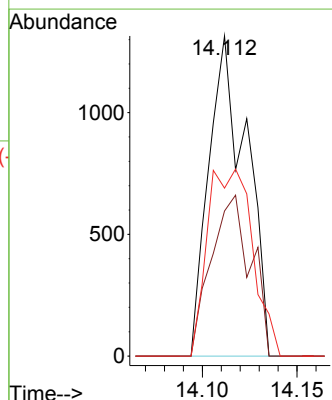
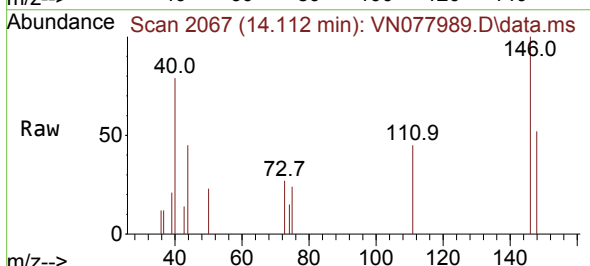
RT: 14.112 min Scan# 2067

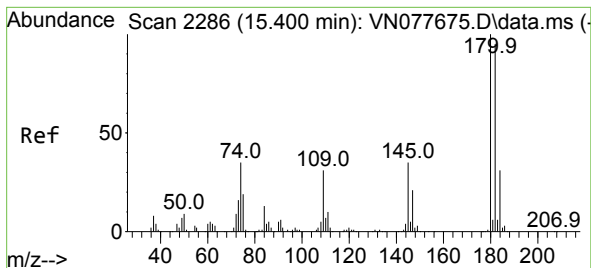
Delta R.T. 0.001 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

Tgt Ion:	146	Resp:	1817
Ion	Ratio	Lower	Upper
146	100		
111	52.9	22.0	66.0
148	70.1	31.8	95.3





#93

1,2,4-Trichlorobenzene

Concen: 0.519 ug/l

RT: 15.406 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20230523

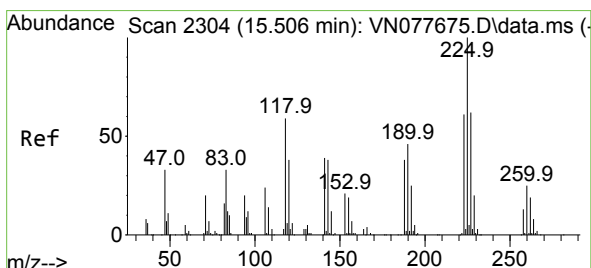
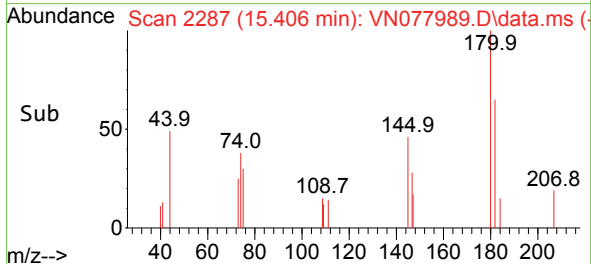
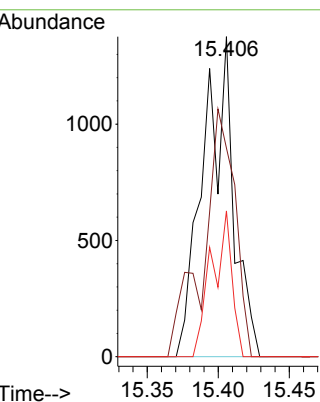
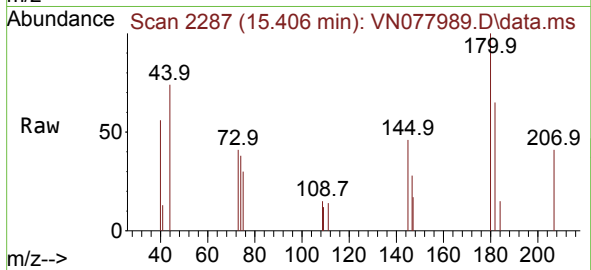
Tgt Ion:180 Resp: 2019

Ion Ratio Lower Upper

180 100

182 82.2 46.1 138.2

145 30.8 16.6 49.8



#94

Hexachlorobutadiene

Concen: 0.353 ug/l

RT: 15.506 min Scan# 2304

Delta R.T. -0.000 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

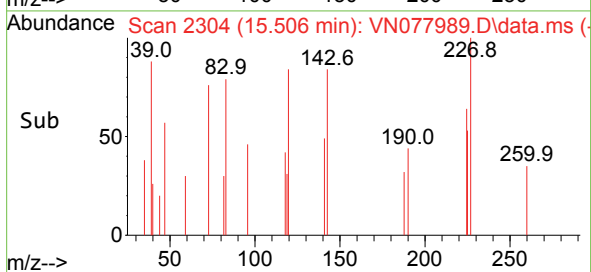
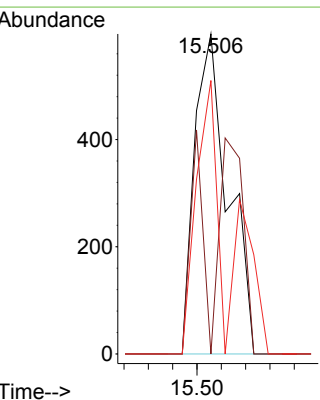
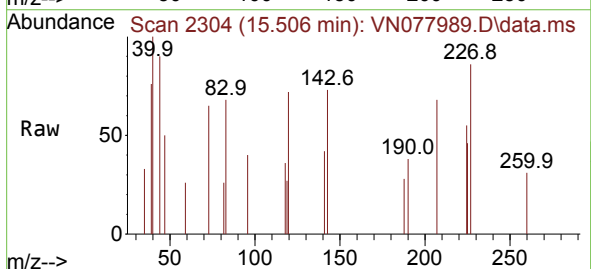
Tgt Ion:225 Resp: 570

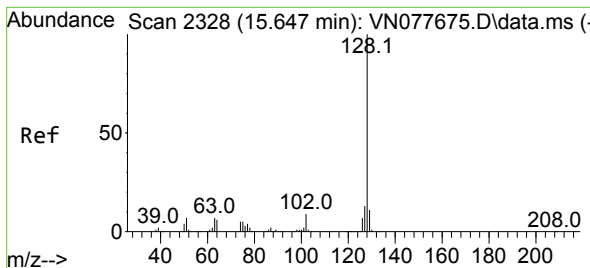
Ion Ratio Lower Upper

225 100

223 73.5 31.3 93.8

227 81.1 31.9 95.9





#95

Naphthalene

Concen: 0.406 ug/l

RT: 15.659 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

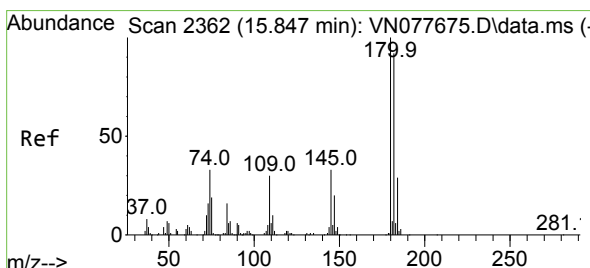
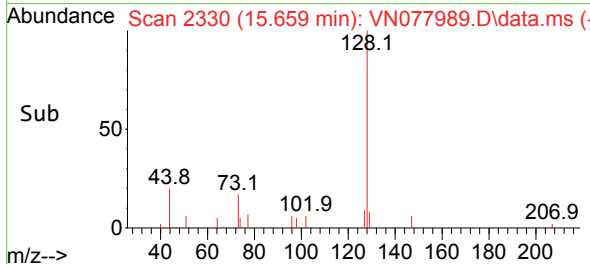
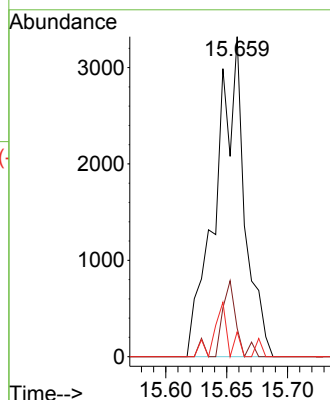
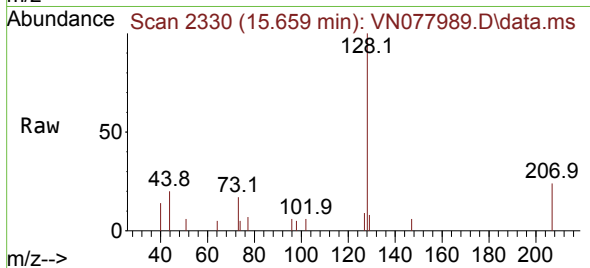
Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20230523

Tgt Ion:128	Resp:	5440
Ion Ratio	Lower	Upper
128	100	
127	12.5	10.0 15.0
129	8.6	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.577 ug/l

RT: 15.859 min Scan# 2364

Delta R.T. 0.012 min

Lab File: VN077989.D

Acq: 31 May 2023 13:43

Tgt Ion:180	Resp:	2196
Ion Ratio	Lower	Upper
180	100	
182	85.2	46.2 138.6
145	42.3	17.5 52.6

