

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052523\
 Data File : VN077913.D
 Acq On : 25 May 2023 19:38
 Operator : JC\MD
 Sample : 02901-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 50038

Quant Time: May 26 04:38:18 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)

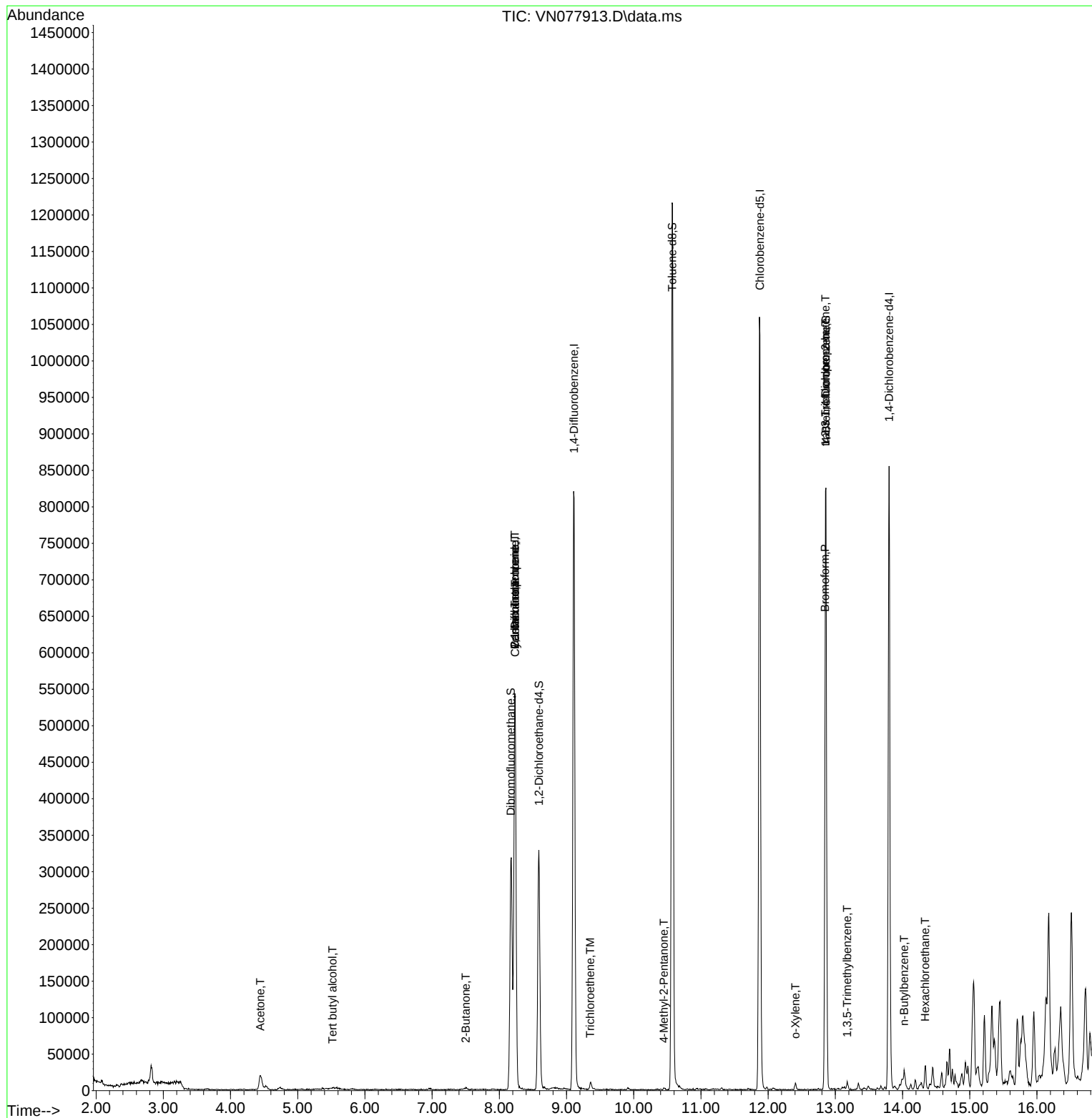
Internal Standards						
1) Pentafluorobenzene	8.230	168	397423	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	738232	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	645138	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	229756	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	271969	45.736	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.480%
35) Dibromofluoromethane	8.171	113	233149	48.432	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.860%
50) Toluene-d8	10.571	98	907162	48.959	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.920%
62) 4-Bromofluorobenzene	12.859	95	305094	46.621	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.240%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1997	Below Cal		99
11) Tert butyl alcohol	5.518	59	419	0.511 ug/l #		92
13) Acrolein	4.177	56	293	Below Cal		85
16) Acetone	4.442	43	39230	20.969 ug/l #		83
20) Methylene Chloride	5.289	84	342	Below Cal #		57
25) 2-Butanone	7.500	43	3027	1.034 ug/l #		65
31) Cyclohexane	8.236	56	9380	1.161 ug/l #		1
36) 1,1-Dichloropropene	8.230	75	35321	5.016 ug/l #		45
38) Carbon Tetrachloride	8.230	117	44026	6.192 ug/l #		16
44) Trichloroethene	9.353	130	3164	0.601 ug/l		88
51) 4-Methyl-2-Pentanone	10.447	43	1441	0.236 ug/l		99
69) o-Xylene	12.406	106	2558	0.274 ug/l		91
71) Bromoform	12.847	173	1384	0.430 ug/l #		28
76) 1,2,3-Trichloropropane	12.853	75	159319	27.689 ug/l #		1
80) 1,3,5-Trimethylbenzene	13.176	105	4450	0.267 ug/l		96
81) trans-1,4-Dichloro-2-b...	12.853	75	159319	88.508 ug/l #		15
89) n-Butylbenzene	14.023	91	3084	0.204 ug/l #		1
90) Hexachloroethane	14.335	117	2509	0.928 ug/l #		21

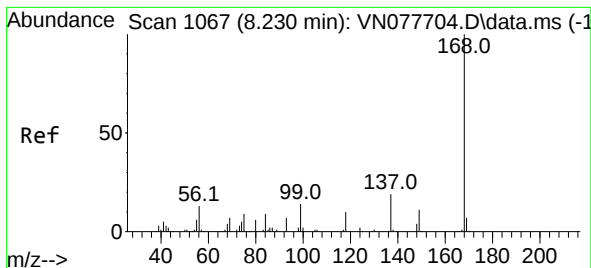
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN077913.D

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MSVOA_N

ClientSampleId :

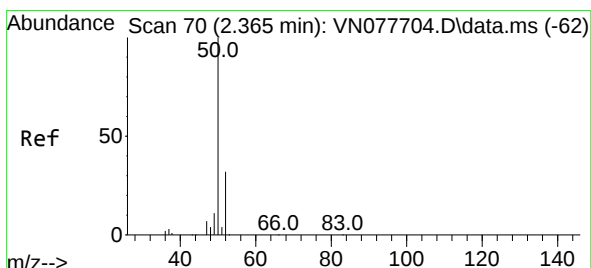
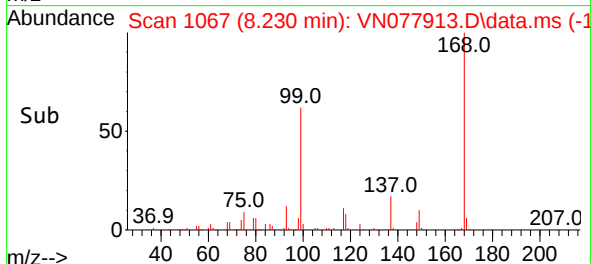
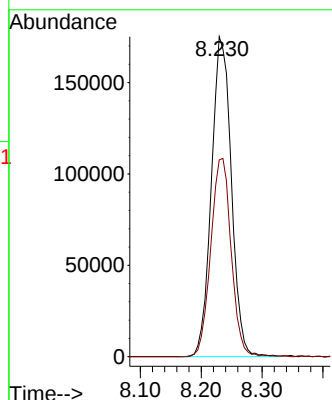
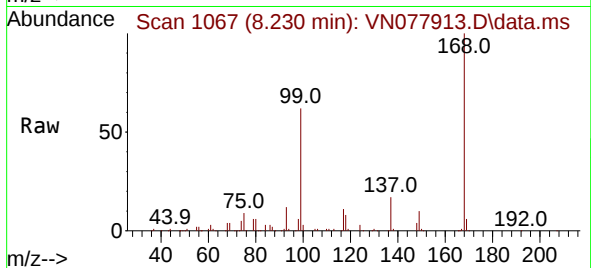
50038

Tgt Ion:168 Resp: 397423

Ion Ratio Lower Upper

168 100

99 61.5 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN077913.D

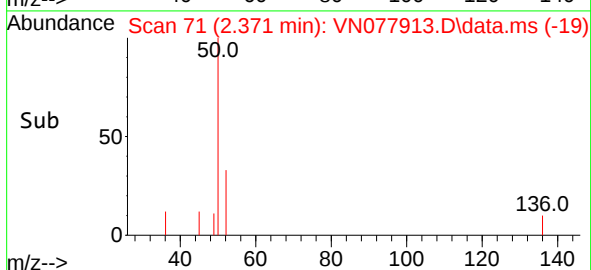
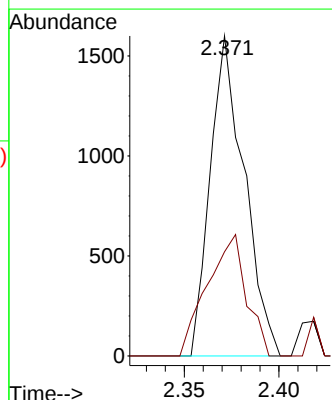
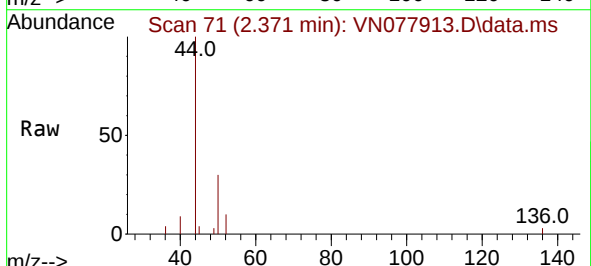
Acq: 25 May 2023 19:38

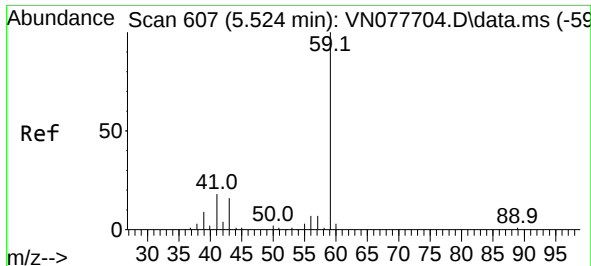
Tgt Ion: 50 Resp: 1997

Ion Ratio Lower Upper

50 100

52 32.6 26.5 39.7

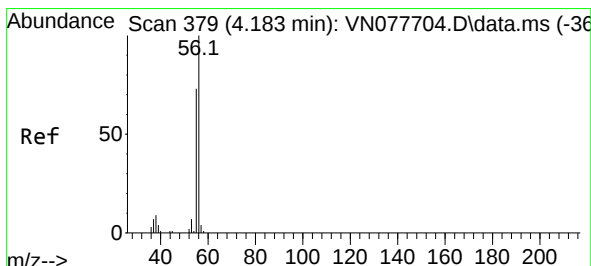
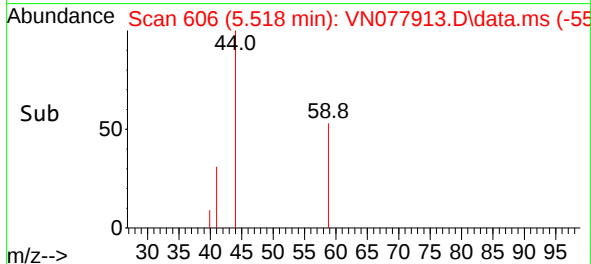
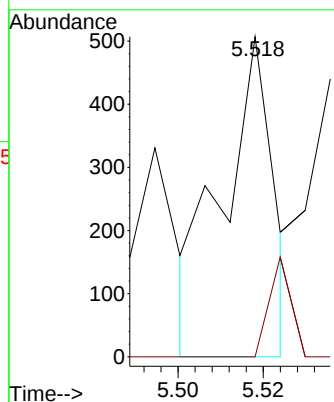
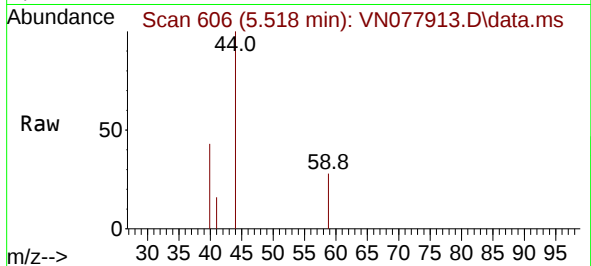




#11
Tert butyl alcohol
Concen: 0.511 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

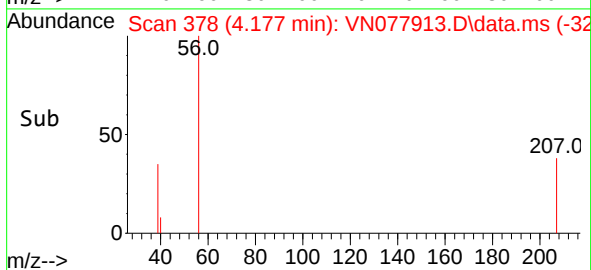
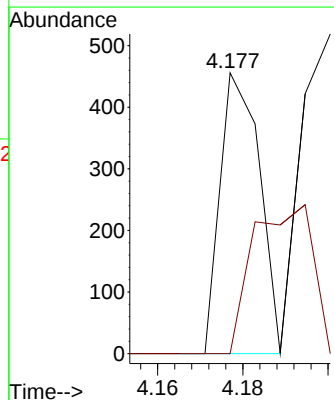
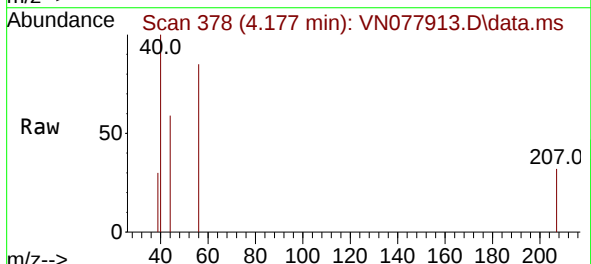
Instrument :
MSVOA_N
ClientSampleId :
50038

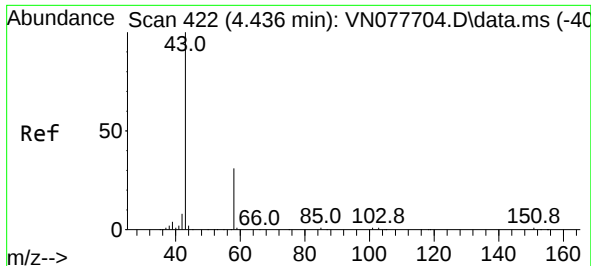
Tgt Ion: 59 Resp: 419
Ion Ratio Lower Upper
59 100
57 13.4 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 378
Delta R.T. -0.012 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion: 56 Resp: 293
Ion Ratio Lower Upper
56 100
55 80.2 54.5 81.7

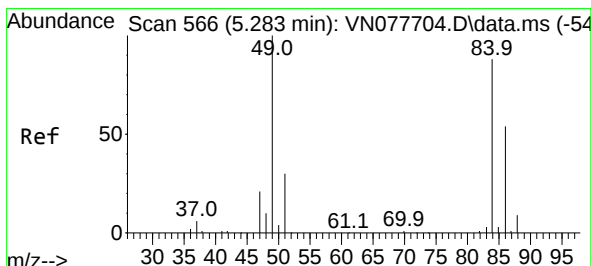
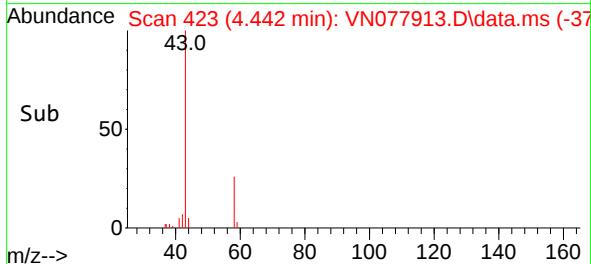
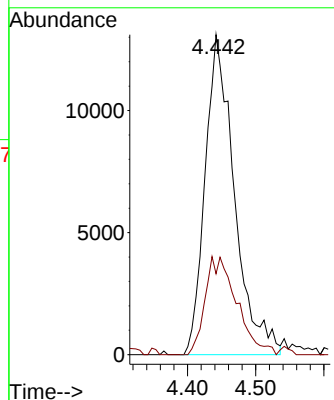
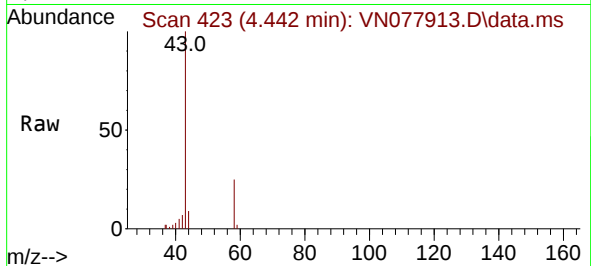




#16
Acetone
Concen: 20.969 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

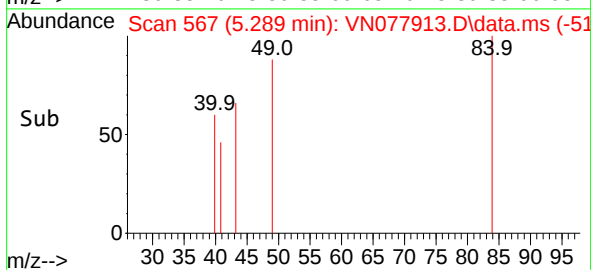
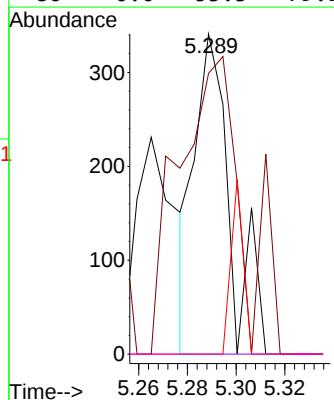
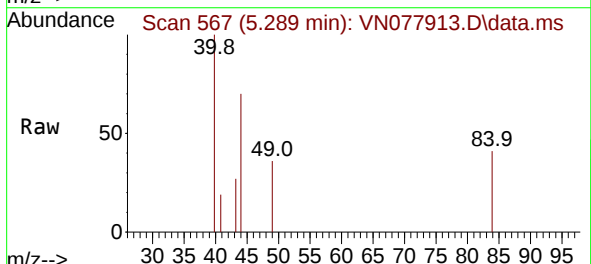
Instrument :
MSVOA_N
ClientSampleId :
50038

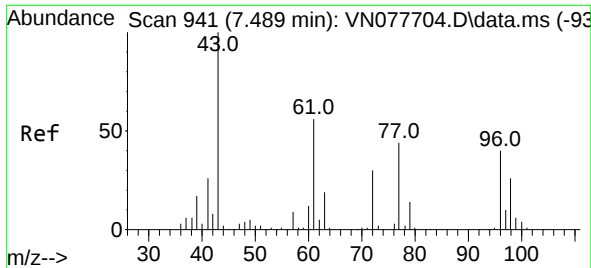
Tgt Ion: 43 Resp: 39230
Ion Ratio Lower Upper
43 100
58 25.3 28.0 42.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion: 84 Resp: 342
Ion Ratio Lower Upper
84 100
49 87.7 79.7 119.5
51 0.0 25.2 37.8#
86 0.0 53.3 79.9#

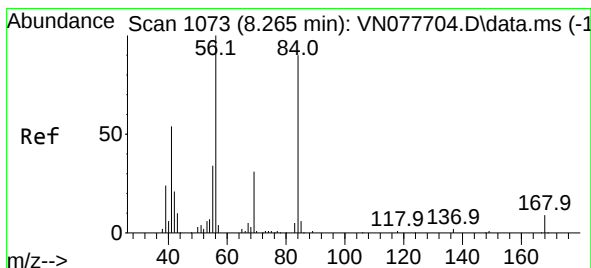
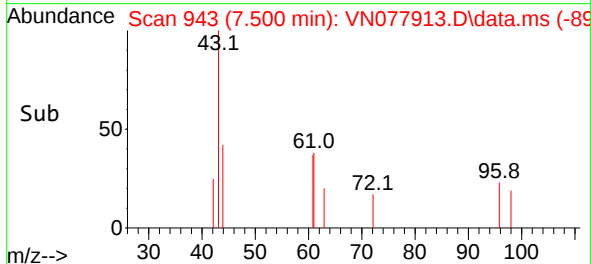
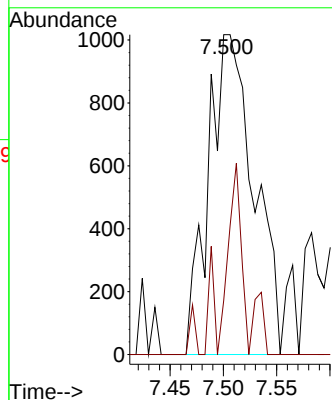
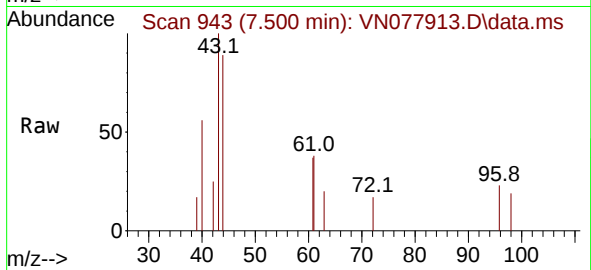




#25
2-Butanone
Concen: 1.034 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

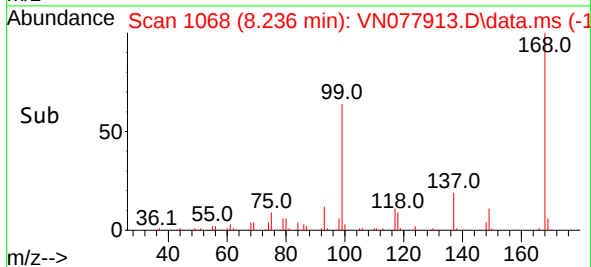
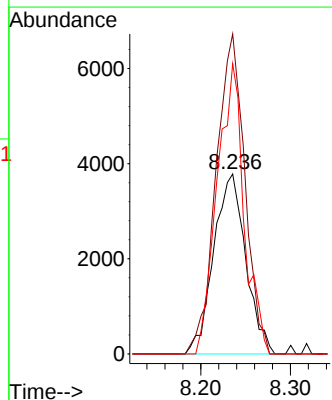
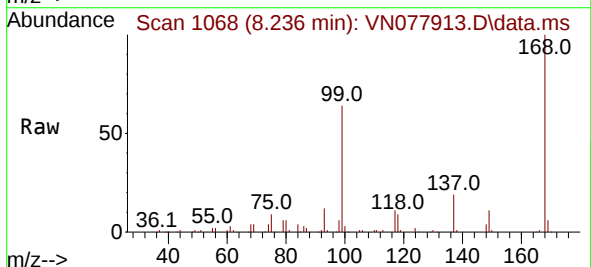
Instrument :
MSVOA_N
ClientSampleId :
50038

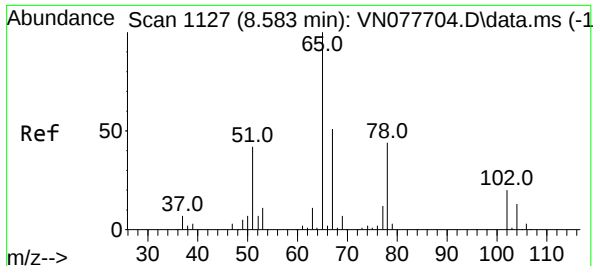
Tgt Ion: 43 Resp: 3027
Ion Ratio Lower Upper
43 100
72 16.9 30.2 45.2#



#31
Cyclohexane
Concen: 1.161 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion: 56 Resp: 9380
Ion Ratio Lower Upper
56 100
69 177.7 26.8 40.2#
84 172.5 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 45.736 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

Instrument :

MSVOA_N

ClientSampleId :

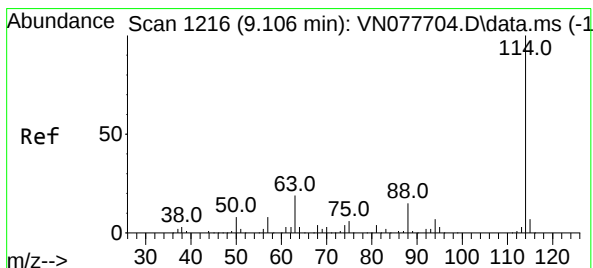
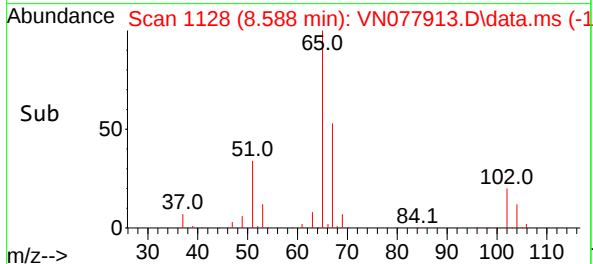
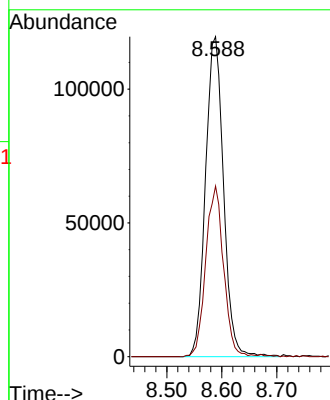
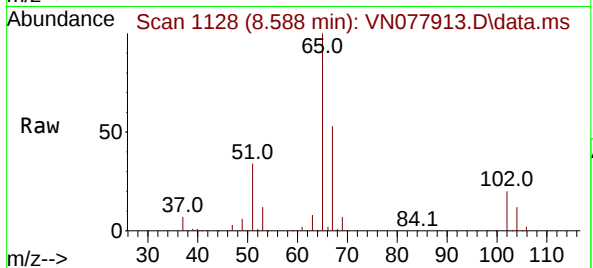
50038

Tgt Ion: 65 Resp: 271969

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

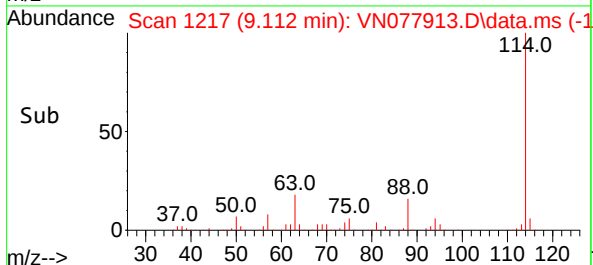
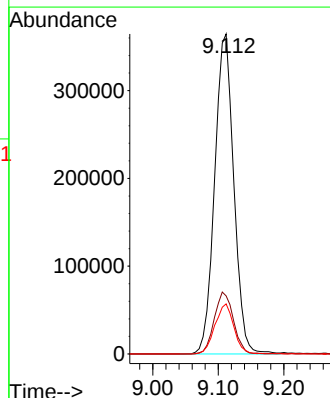
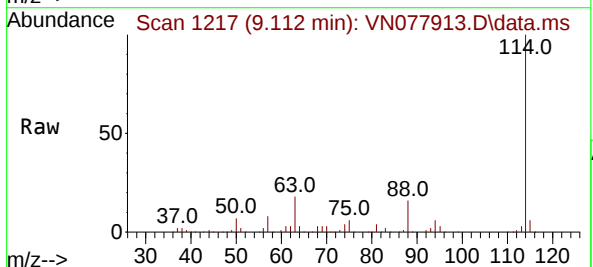
Tgt Ion: 114 Resp: 738232

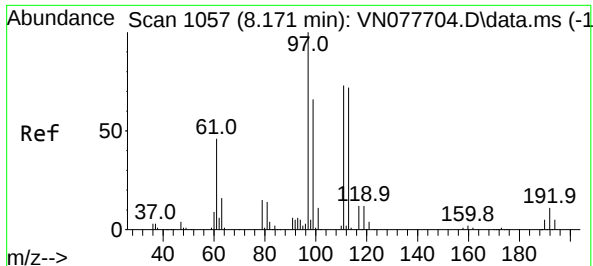
Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.4

88 15.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.432 ug/l

RT: 8.171 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

Instrument :

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50038

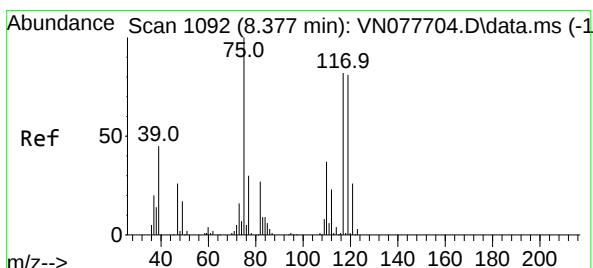
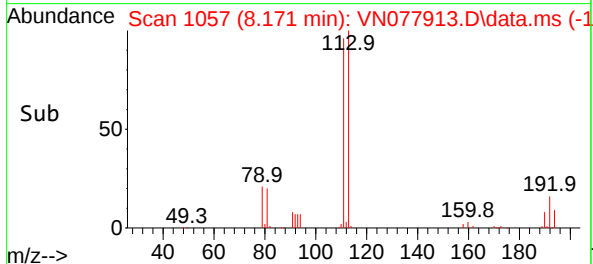
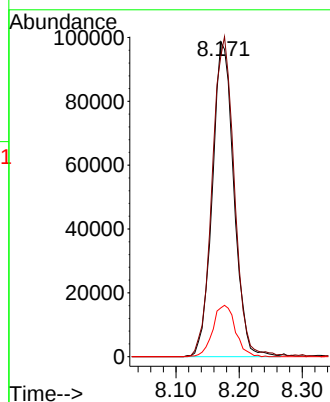
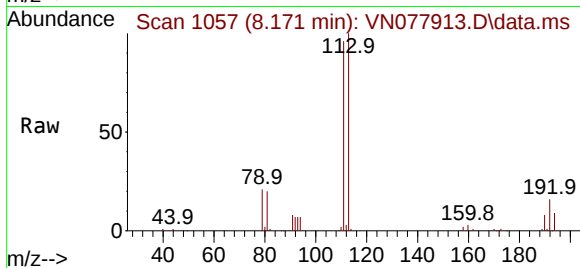
Tgt Ion:113 Resp: 233149

Ion Ratio Lower Upper

113 100

111 104.7 82.6 123.8

192 17.1 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.016 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

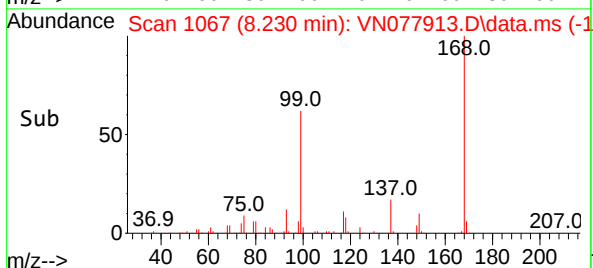
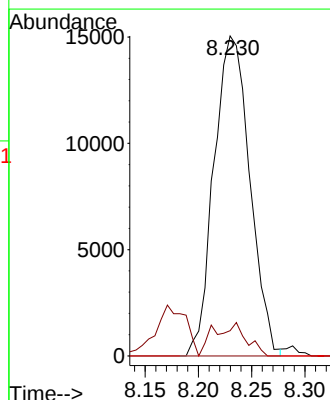
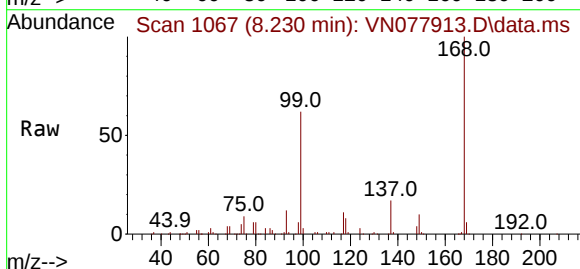
Tgt Ion: 75 Resp: 35321

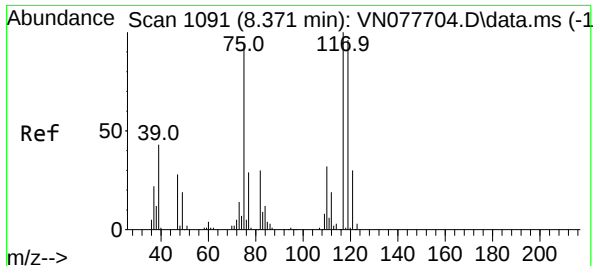
Ion Ratio Lower Upper

75 100

110 5.2 19.1 57.3#

77 0.0 25.0 37.4#

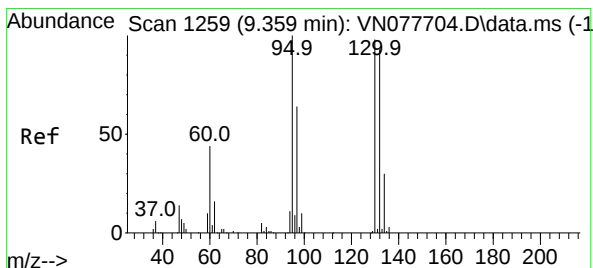
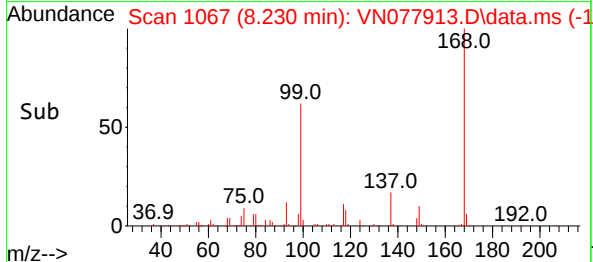
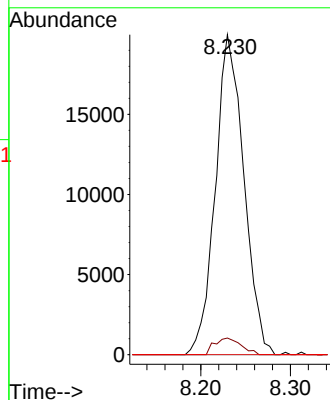
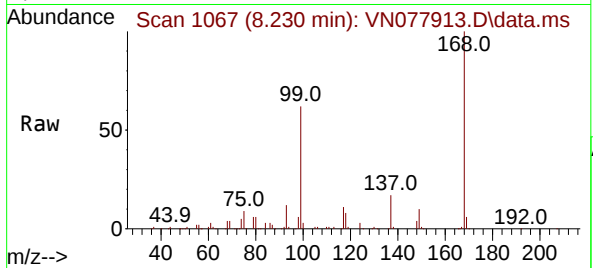




#38
Carbon Tetrachloride
Concen: 6.192 ug/l
RT: 8.230 min Scan# 117
Delta R.T. -0.141 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

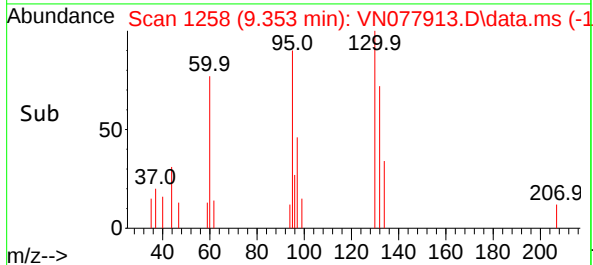
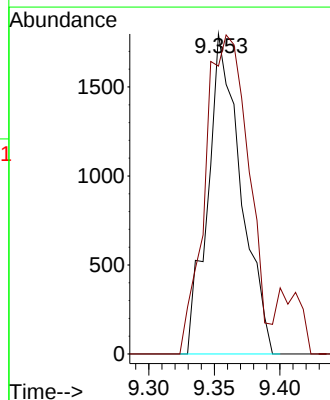
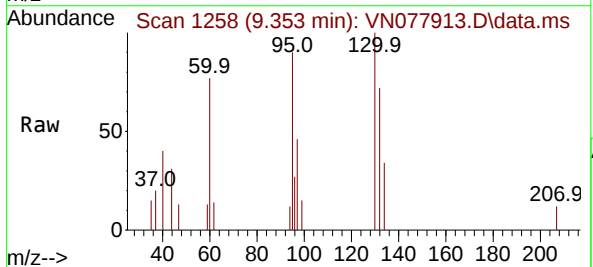
Instrument :
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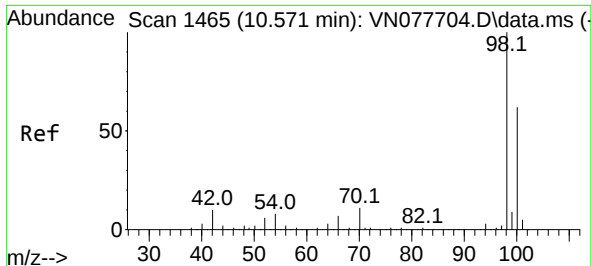
Tgt Ion:117 Resp: 44026
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#



#44
Trichloroethene
Concen: 0.601 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion:130 Resp: 3164
Ion Ratio Lower Upper
130 100
95 89.9 0.0 204.6

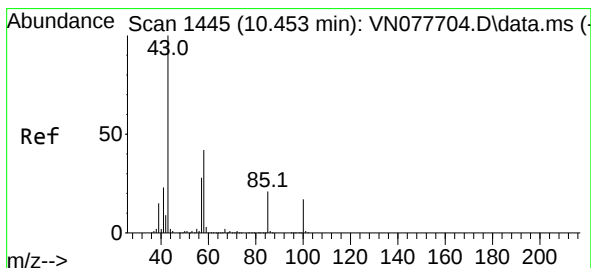
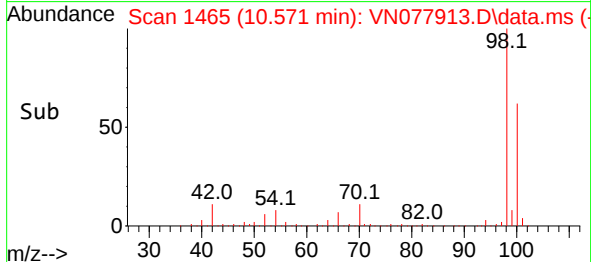
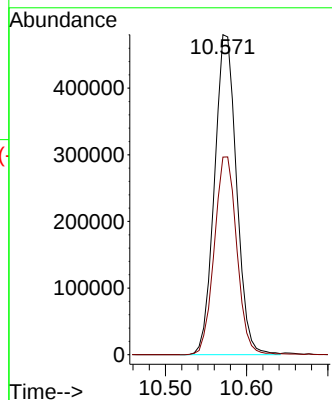
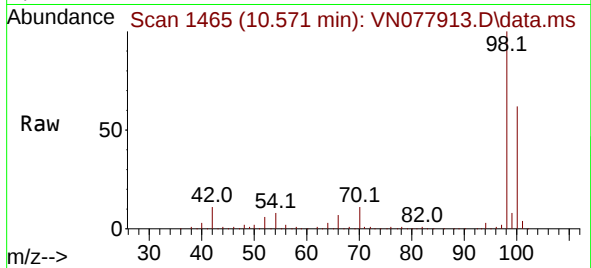




#50
Toluene-d8
Concen: 48.959 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

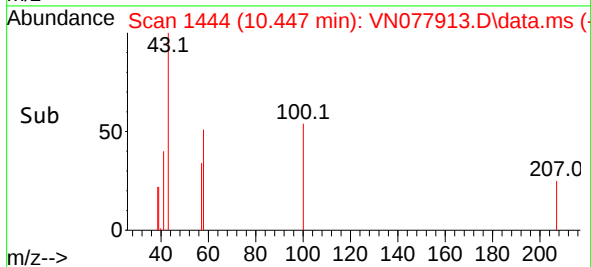
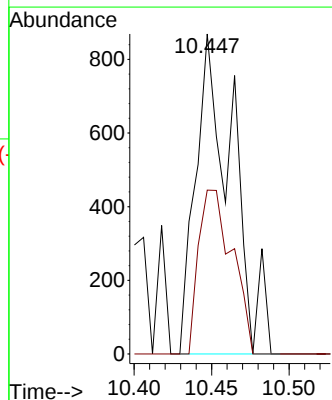
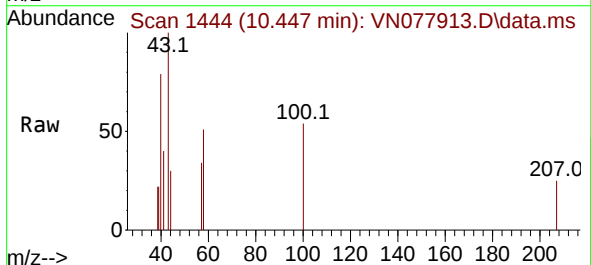
Instrument :
MSVOA_N
ClientSampleId :
50038

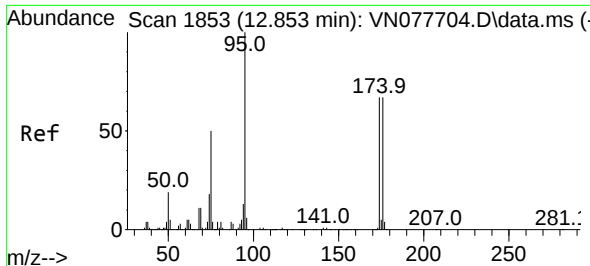
Tgt Ion: 98 Resp: 907162
Ion Ratio Lower Upper
98 100
100 63.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.236 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion: 43 Resp: 1441
Ion Ratio Lower Upper
43 100
58 46.6 36.6 54.8

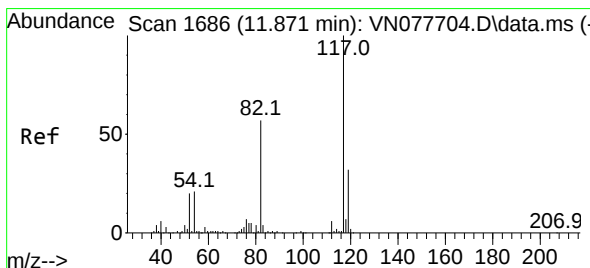
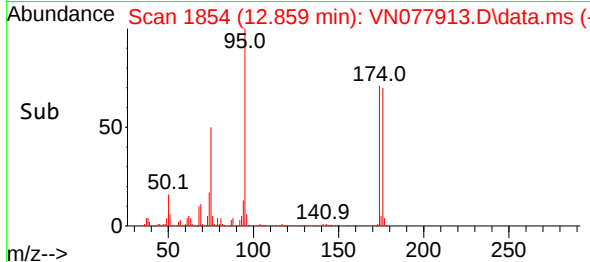
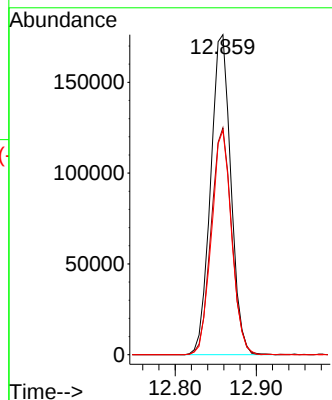
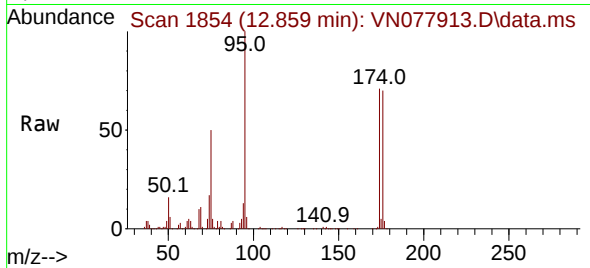




#62
4-Bromofluorobenzene
Concen: 46.621 ug/l
RT: 12.859 min Scan# 1185
Delta R.T. 0.006 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

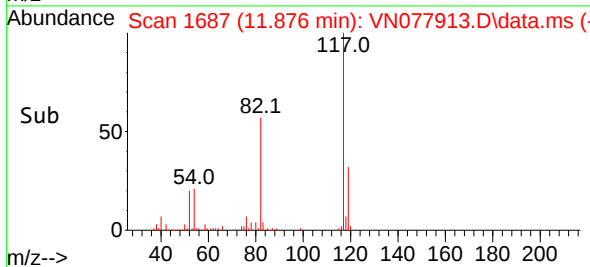
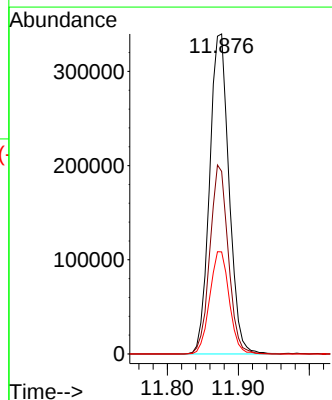
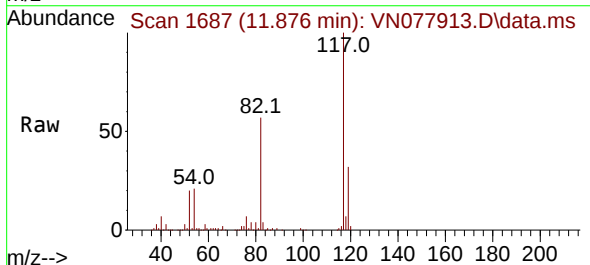
Instrument :
MSVOA_N
ClientSampleId :
50038

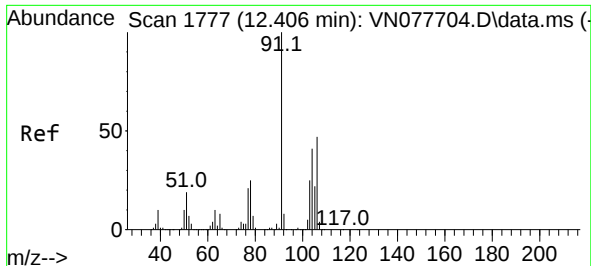
Tgt Ion: 95 Resp: 305094
Ion Ratio Lower Upper
95 100
174 71.8 0.0 143.8
176 69.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.876 min Scan# 1687
Delta R.T. 0.006 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion: 117 Resp: 645138
Ion Ratio Lower Upper
117 100
82 57.1 44.0 66.0
119 31.9 25.6 38.4

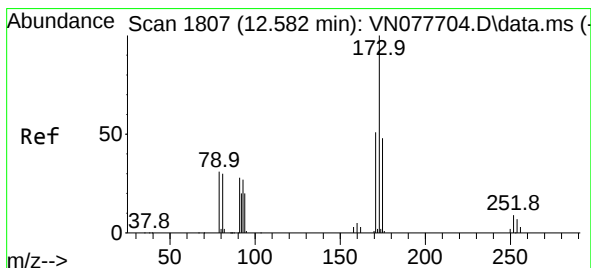
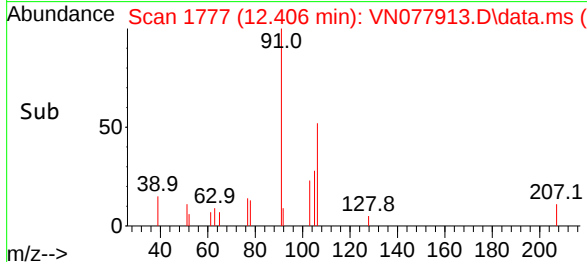
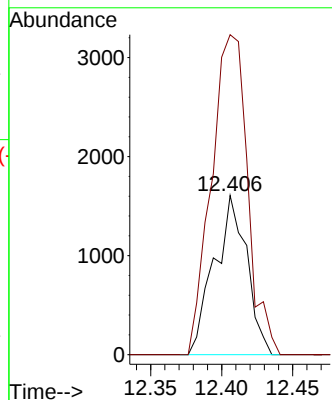
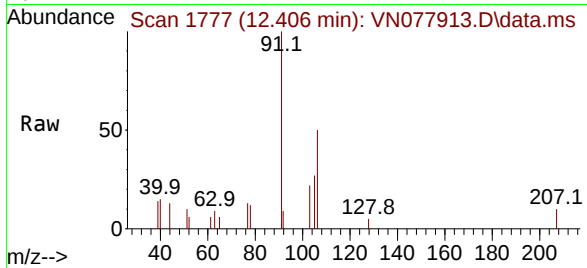




#69
o-Xylene
Concen: 0.274 ug/l
RT: 12.406 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

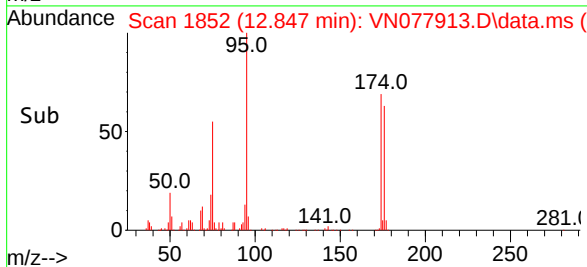
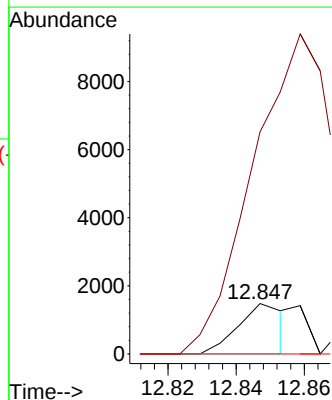
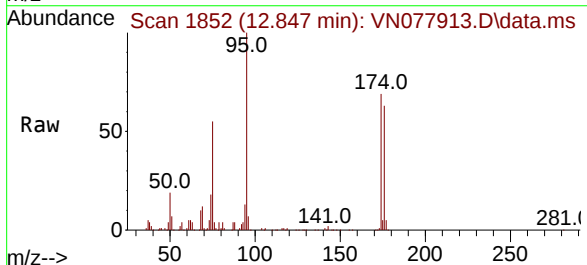
Instrument :
MSVOA_N
ClientSampleId :
50038

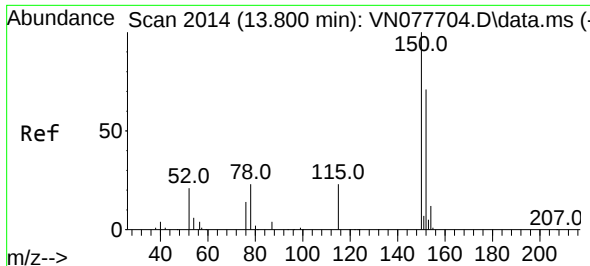
Tgt Ion:106 Resp: 2558
Ion Ratio Lower Upper
106 100
91 224.2 105.2 315.5



#71
Bromoform
Concen: 0.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN077913.D
Acq: 25 May 2023 19:38

Tgt Ion:173 Resp: 1384
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

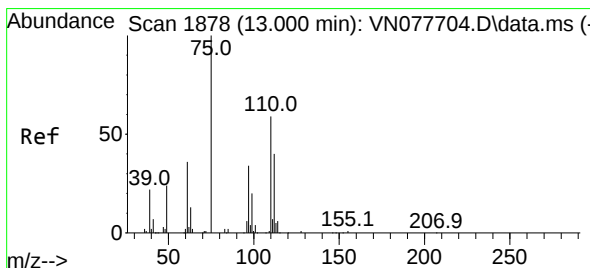
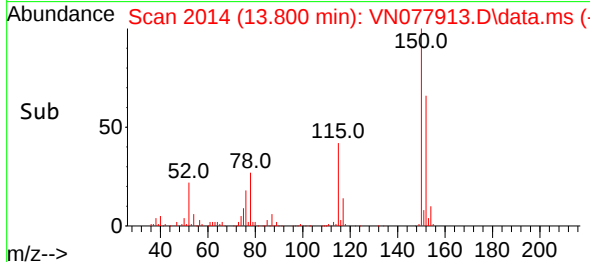
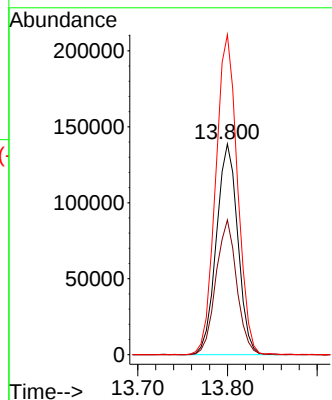
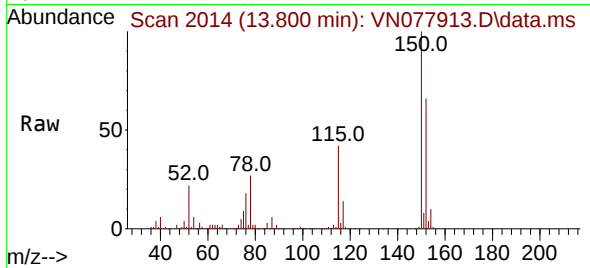




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN077913.D
 Acq: 25 May 2023 19:38

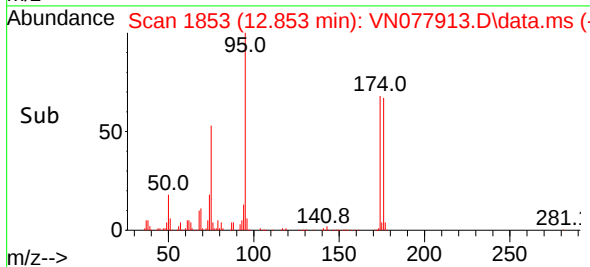
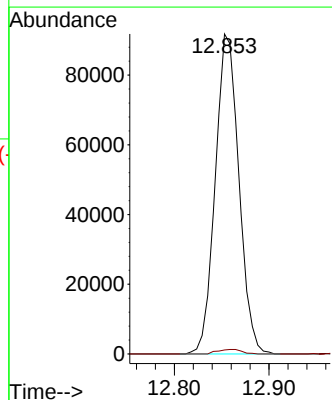
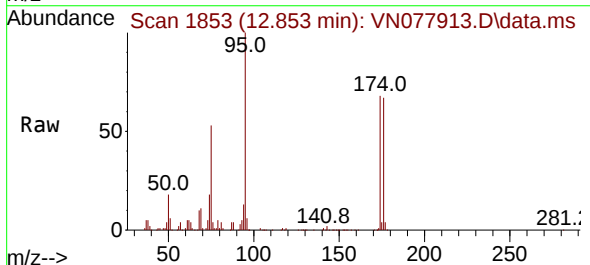
Instrument :
 MSVOA_N
 ClientSampleId :
 50038

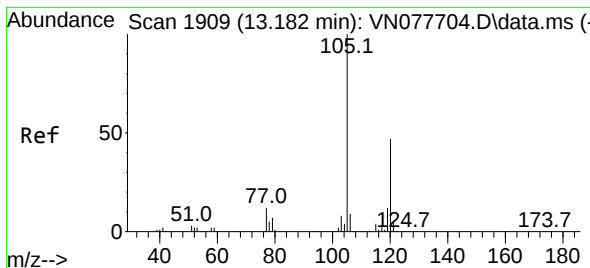
Tgt Ion:152 Resp: 229756
 Ion Ratio Lower Upper
 152 100
 115 62.4 32.3 96.8
 150 154.4 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 27.689 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN077913.D
 Acq: 25 May 2023 19:38

Tgt Ion: 75 Resp: 159319
 Ion Ratio Lower Upper
 75 100
 77 1.5 84.5 253.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 13.176 min Scan# 1909

Delta R.T. -0.006 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

Instrument :

MSVOA_N

ClientSampleId :

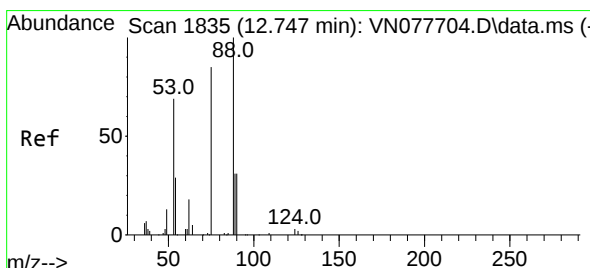
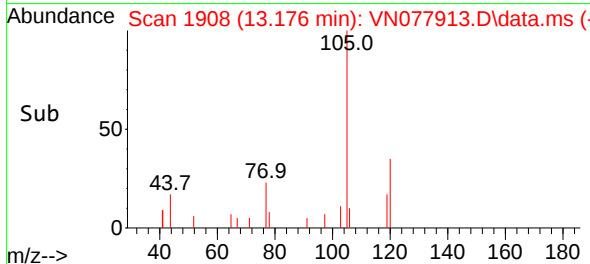
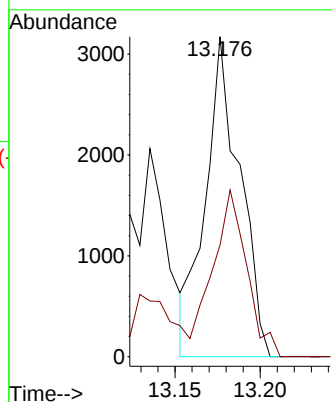
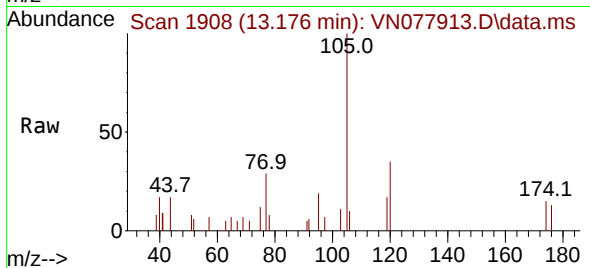
50038

Tgt Ion:105 Resp: 4450

Ion Ratio Lower Upper

105 100

120 51.1 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 88.508 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

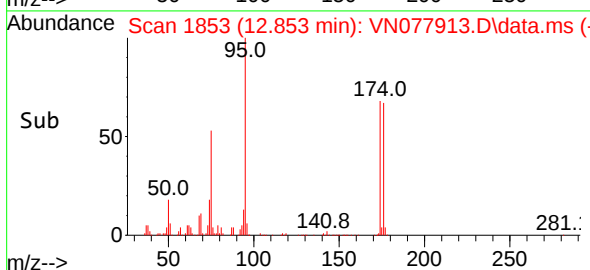
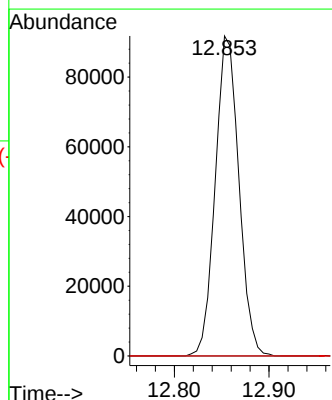
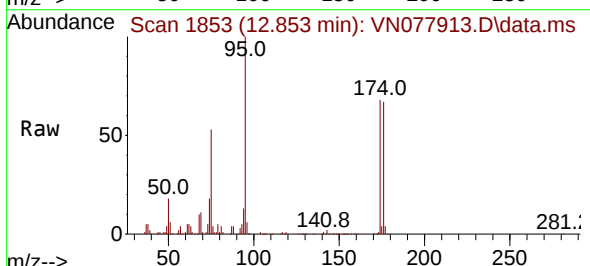
Tgt Ion: 75 Resp: 159319

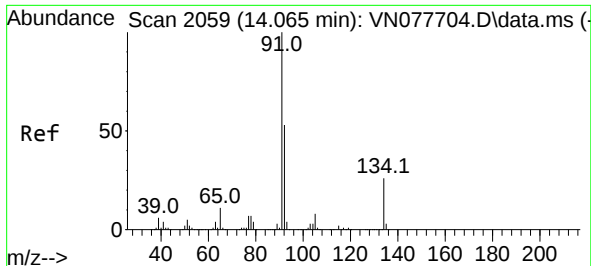
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#





#89

n-Butylbenzene

Concen: 0.204 ug/l

RT: 14.023 min Scan# 2052

Delta R.T. -0.041 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

Instrument :

MSVOA_N

ClientSampleId :

50038

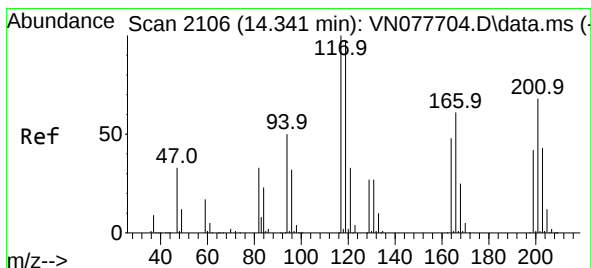
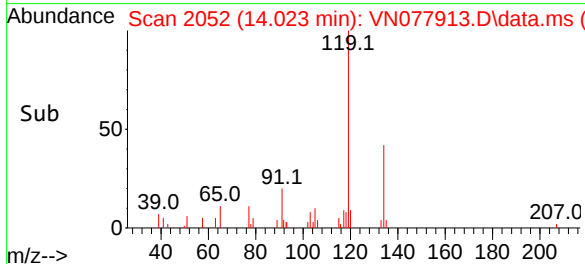
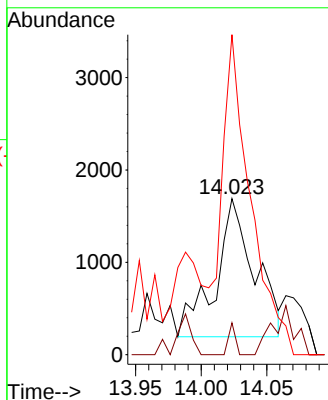
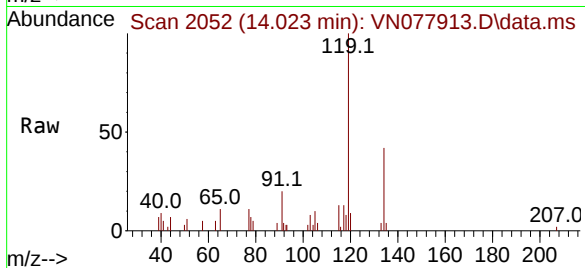
Tgt Ion: 91 Resp: 3084

Ion Ratio Lower Upper

91 100

92 3.9 26.4 79.0#

134 168.0 12.6 37.6#



#90

Hexachloroethane

Concen: 0.928 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.006 min

Lab File: VN077913.D

Acq: 25 May 2023 19:38

Tgt Ion: 117 Resp: 2509

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#

