

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121522\
 Data File : VN075809.D
 Acq On : 15 Dec 2022 11:38
 Operator : JC\MD
 Sample : VN1215MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 03:06:31 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

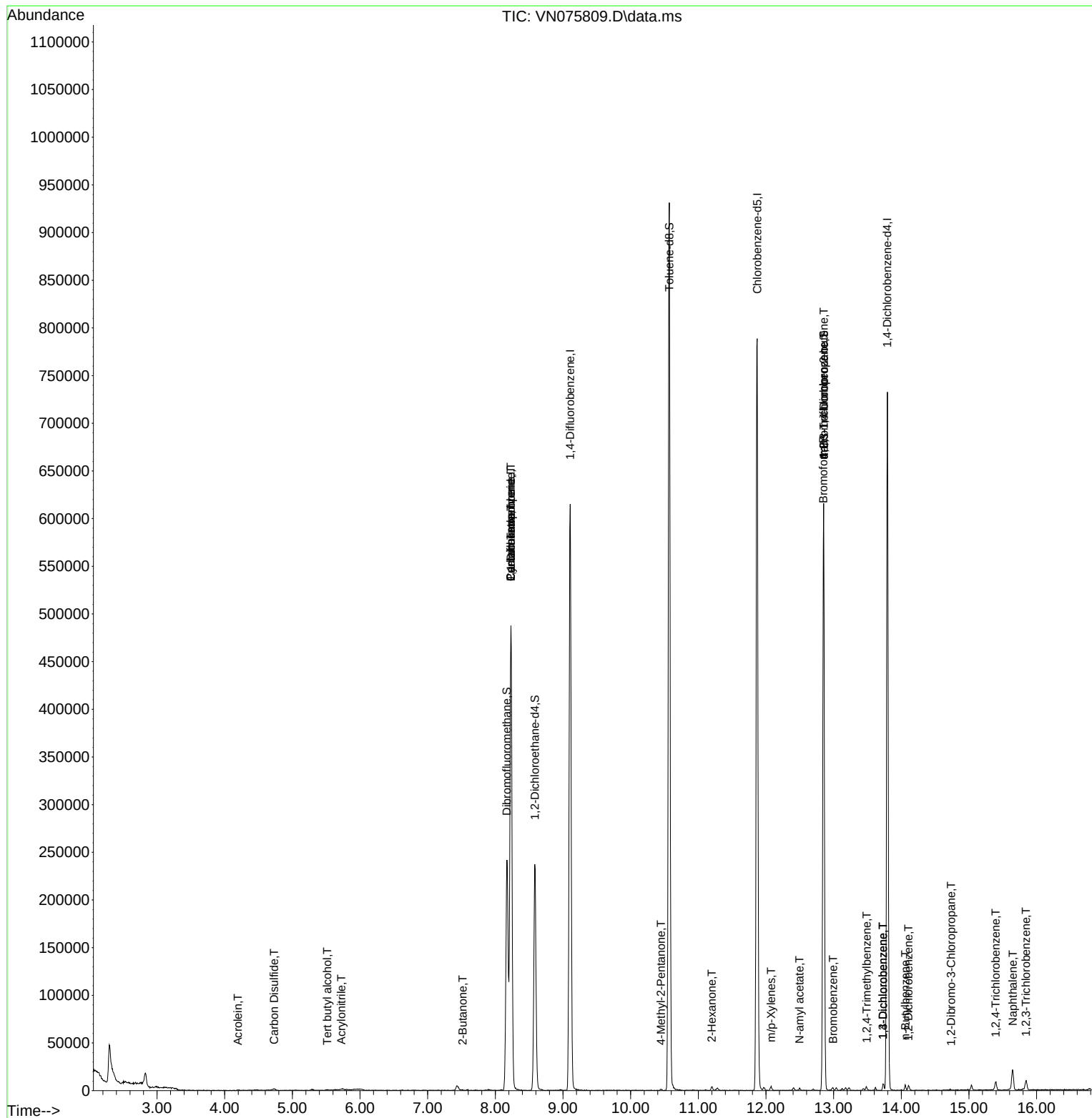
Internal Standards						
1) Pentafluorobenzene	8.230	168	384095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	580944	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	493336	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	203772	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	188876	45.201	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.400%		
35) Dibromofluoromethane	8.171	113	173006	48.088	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	10.571	98	667516	49.624	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.240%		
62) 4-Bromofluorobenzene	12.853	95	205089	46.033	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.060%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	276	0.467	ug/l #	72
13) Acrolein	4.195	56	473	0.653	ug/l #	31
15) Acrylonitrile	5.724	53	413	0.256	ug/l #	81
17) Carbon Disulfide	4.730	76	2000	0.243	ug/l #	76
20) Methylene Chloride	5.306	84	900	Below Cal	#	78
25) 2-Butanone	7.518	43	589	0.292	ug/l #	40
31) Cyclohexane	8.230	56	7105	1.187	ug/l #	7
36) 1,1-Dichloropropene	8.230	75	26756	5.598	ug/l #	49
38) Carbon Tetrachloride	8.230	117	36445	6.813	ug/l #	15
51) 4-Methyl-2-Pentanone	10.447	43	1088	0.284	ug/l	96
59) 2-Hexanone	11.200	43	2328	0.834	ug/l	90
68) m/p-Xylenes	12.076	106	1494	0.221	ug/l	90
71) Bromoform	12.847	173	1761	0.645	ug/l #	1
74) N-amyl acetate	12.494	43	1317	0.305	ug/l #	88
76) 1,2,3-Trichloropropane	12.853	75	104622	25.471	ug/l #	1
77) Bromobenzene	12.994	156	810	0.217	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.853	75	104622	91.682	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.488	105	3022	0.247	ug/l	88
87) 1,3-Dichlorobenzene	13.729	146	2799	0.407	ug/l	96
88) 1,4-Dichlorobenzene	13.729	146	2799	0.398	ug/l	97
89) n-Butylbenzene	14.059	91	3585	0.355	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	2499	0.369	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.735	75	189	0.234	ug/l #	29
93) 1,2,4-Trichlorobenzene	15.394	180	3732	1.112	ug/l	94
95) Naphthalene	15.647	128	23634	4.216	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	5397	1.720	ug/l	85

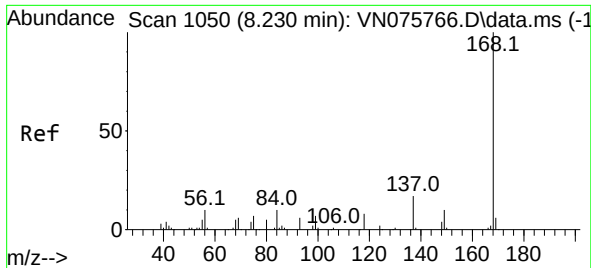
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN075809.D
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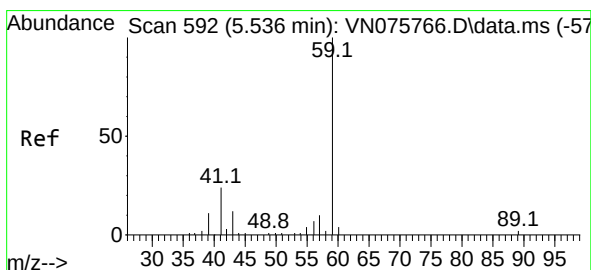
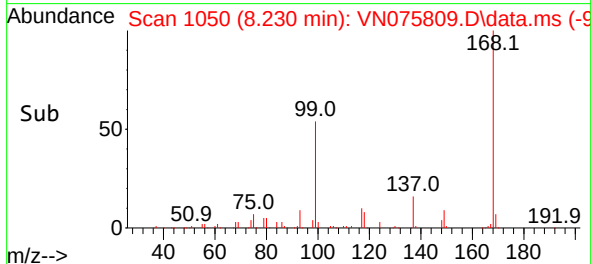
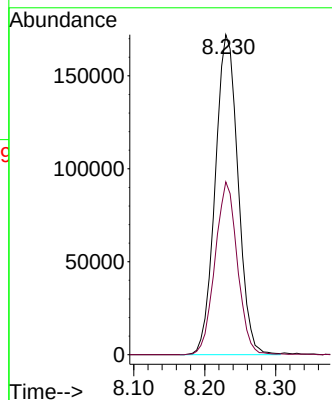
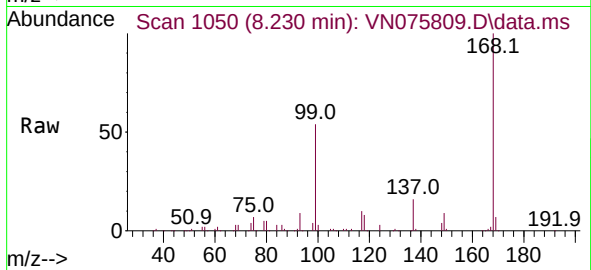




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

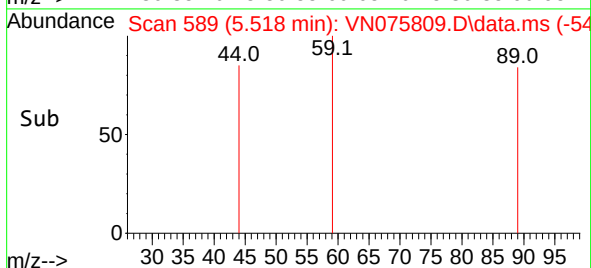
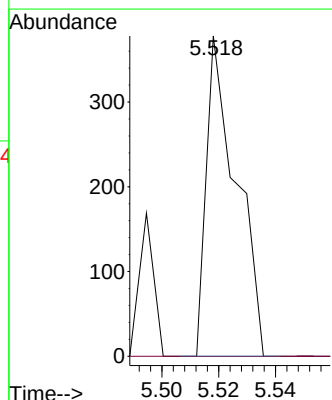
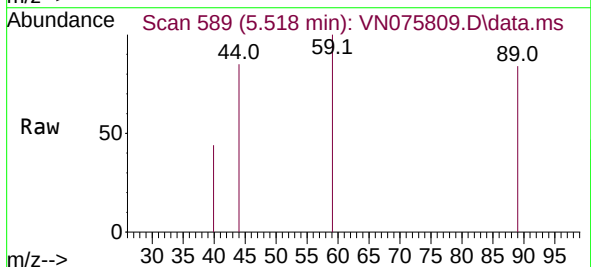
Instrument :
MSVOA_N
ClientSampleId :

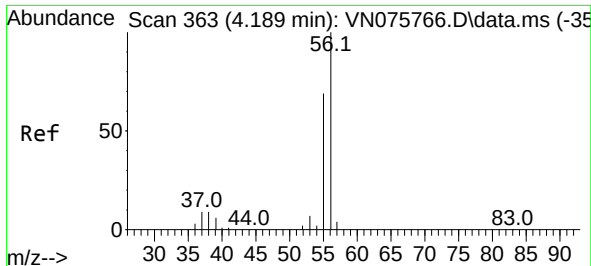
Tgt Ion:168 Resp: 384095
Ion Ratio Lower Upper
168 100
99 54.0 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.467 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.018 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion: 59 Resp: 276
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

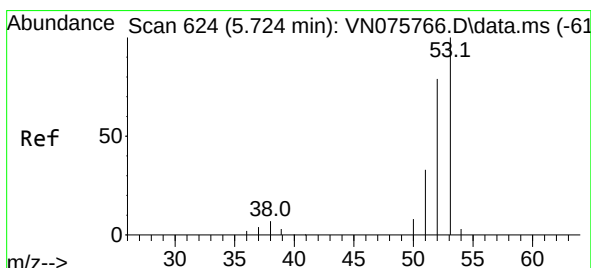
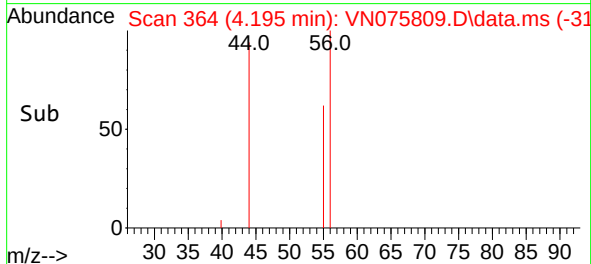
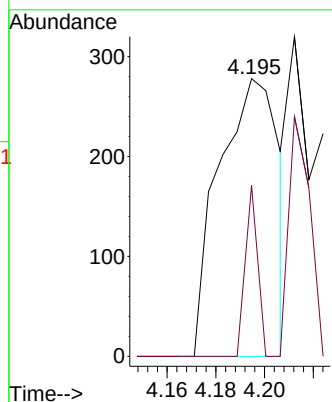
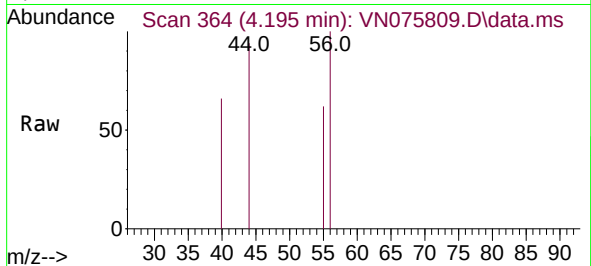




#13
Acrolein
Concen: 0.653 ug/l
RT: 4.195 min Scan# 364
Delta R.T. 0.006 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

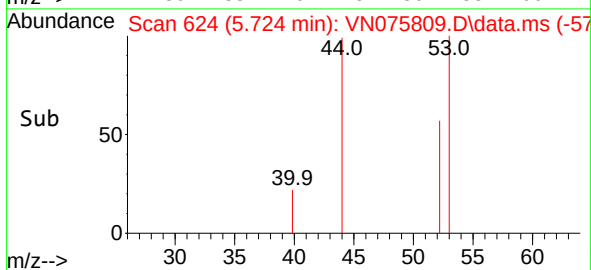
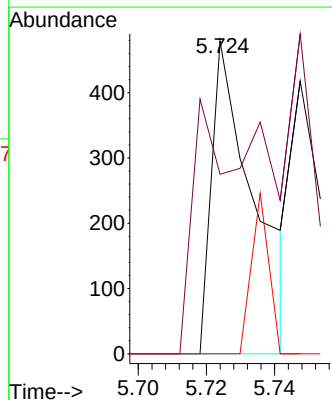
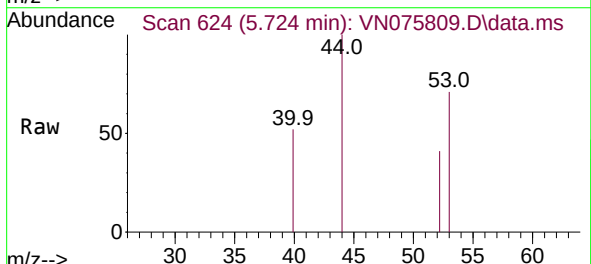
Instrument :
MSVOA_N
ClientSampleId :

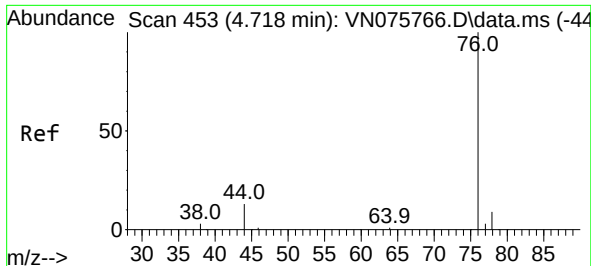
Tgt Ion: 56 Resp: 473
Ion Ratio Lower Upper
56 100
55 12.7 54.8 82.2#



#15
Acrylonitrile
Concen: 0.256 ug/l
RT: 5.724 min Scan# 624
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion: 53 Resp: 413
Ion Ratio Lower Upper
53 100
52 81.1 65.4 98.0
51 0.0 28.9 43.3#

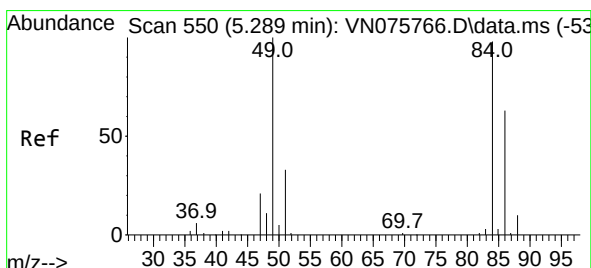
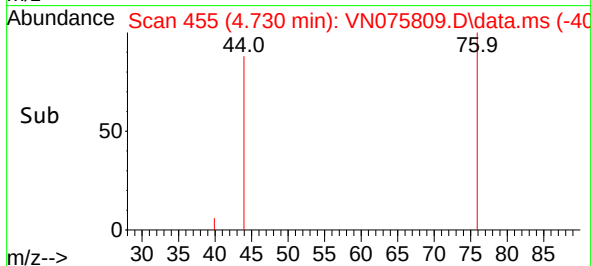
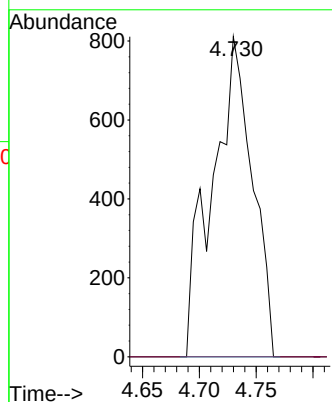
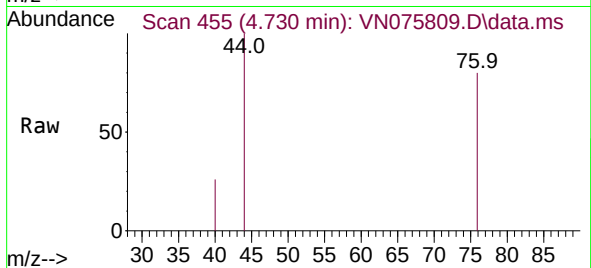




#17
Carbon Disulfide
Concen: 0.243 ug/l
RT: 4.730 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

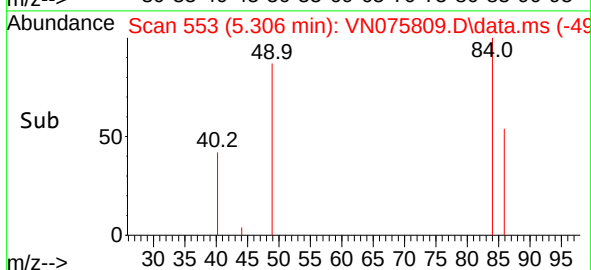
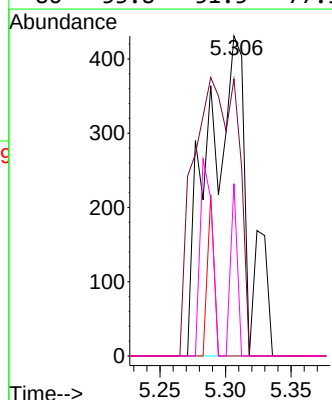
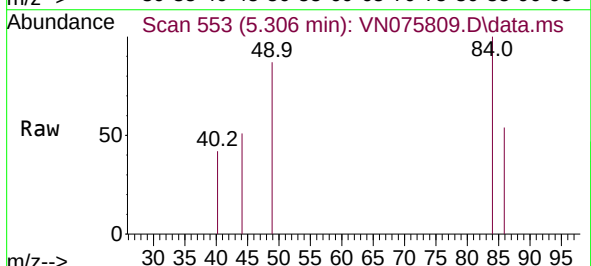
Instrument :
MSVOA_N
ClientSampleId :

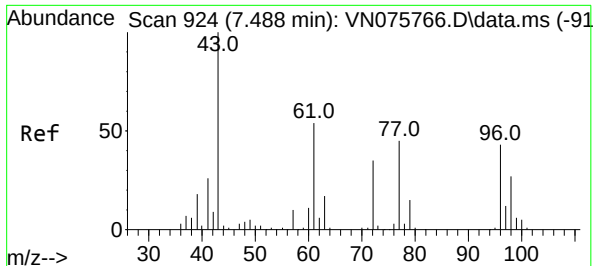
Tgt Ion: 76 Resp: 2000
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.306 min Scan# 553
Delta R.T. 0.017 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion: 84 Resp: 900
Ion Ratio Lower Upper
84 100
49 86.5 81.8 122.6
51 0.0 26.7 40.1#
86 53.8 51.5 77.3





#25

2-Butanone

Concen: 0.292 ug/l

RT: 7.518 min Scan# 91

Delta R.T. 0.029 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

Instrument :

MSVOA_N

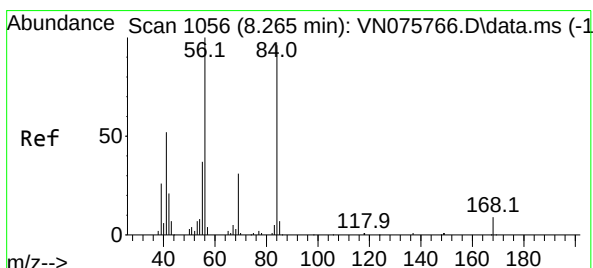
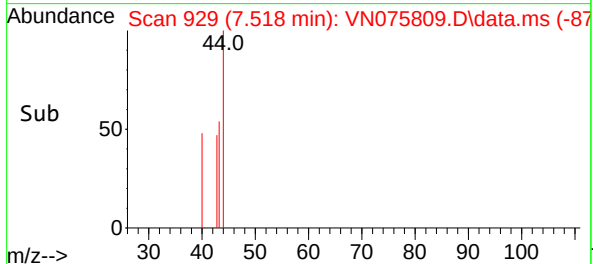
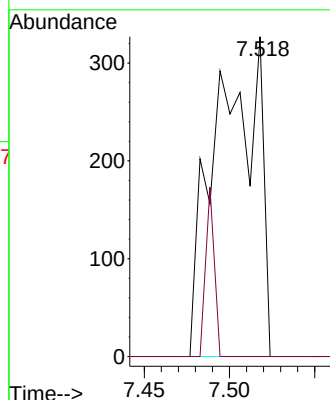
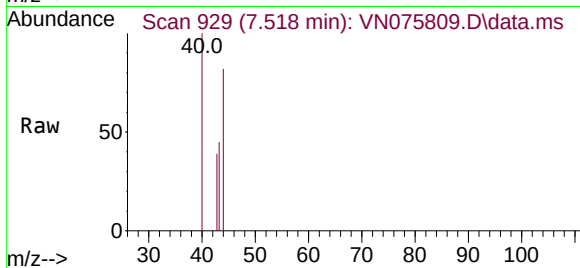
ClientSampleId :

Tgt Ion: 43 Resp: 589

Ion Ratio Lower Upper

43 100

72 0.0 28.0 42.0#



#31

Cyclohexane

Concen: 1.187 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

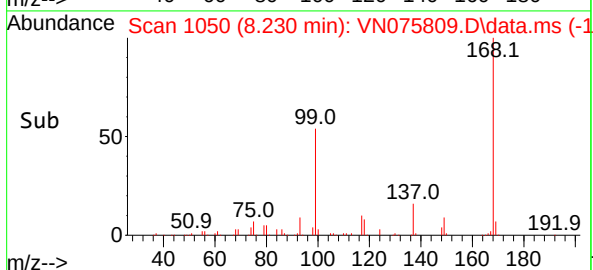
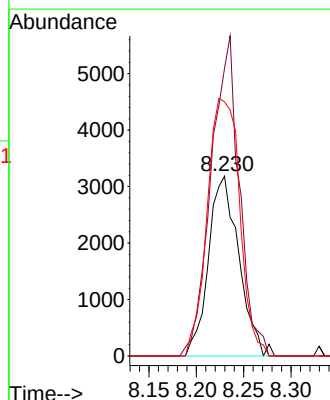
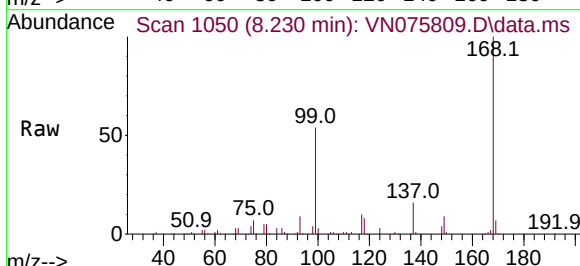
Tgt Ion: 56 Resp: 7105

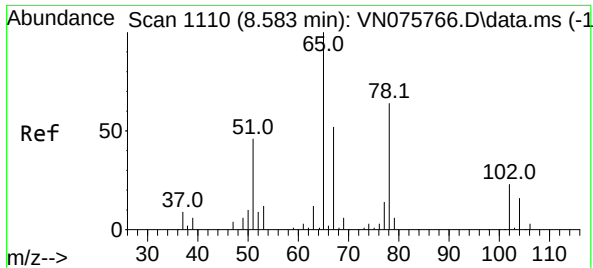
Ion Ratio Lower Upper

56 100

69 159.9 24.7 37.1#

84 141.4 76.5 114.7#

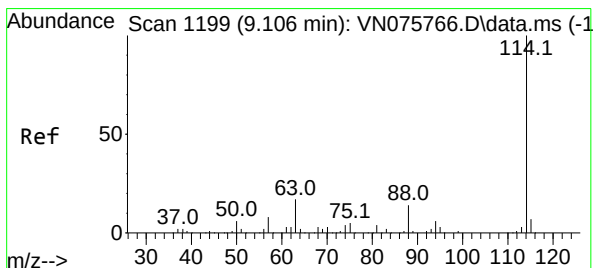
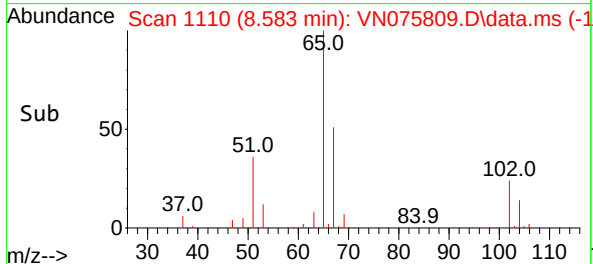
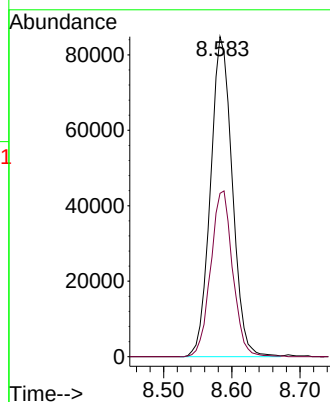
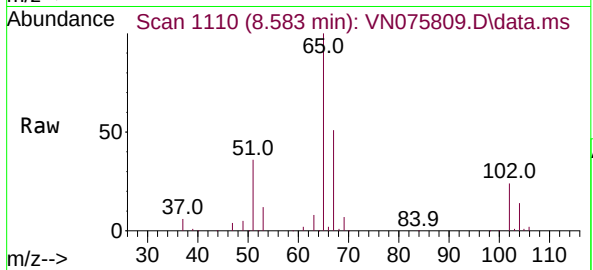




#33
 1,2-Dichloroethane-d4
 Concen: 45.201 ug/l
 RT: 8.583 min Scan# 1110
 Delta R.T. 0.000 min
 Lab File: VN075809.D
 Acq: 15 Dec 2022 11:38

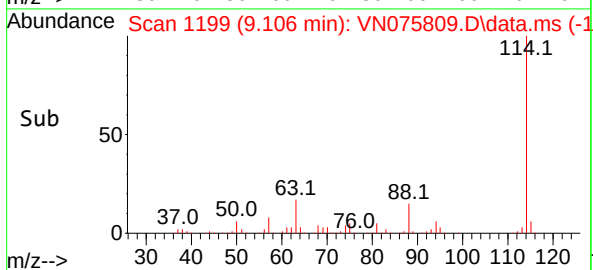
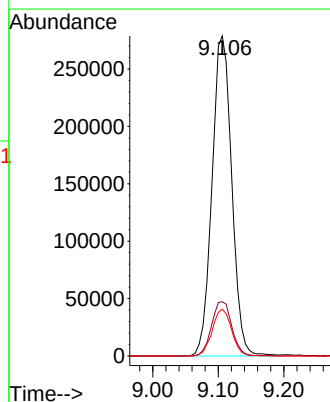
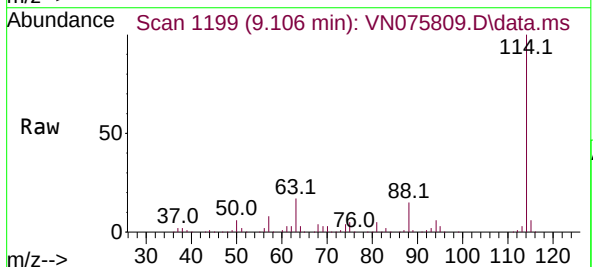
Instrument :
 MSVOA_N
 ClientSampleId :

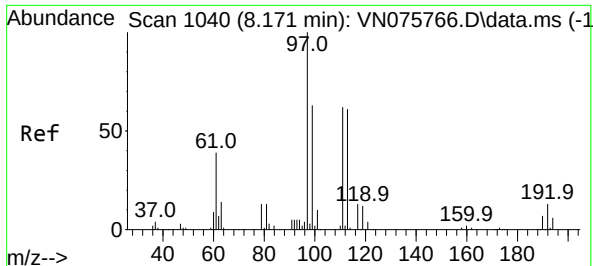
Tgt Ion: 65 Resp: 188876
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1199
 Delta R.T. 0.000 min
 Lab File: VN075809.D
 Acq: 15 Dec 2022 11:38

Tgt Ion: 114 Resp: 580944
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 34.4
 88 14.6 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.088 ug/l

RT: 8.171 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

Instrument :

MSVOA_N

ClientSampleId :

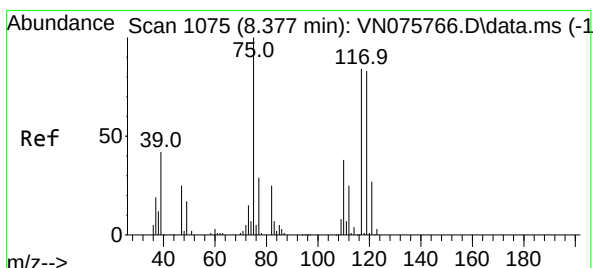
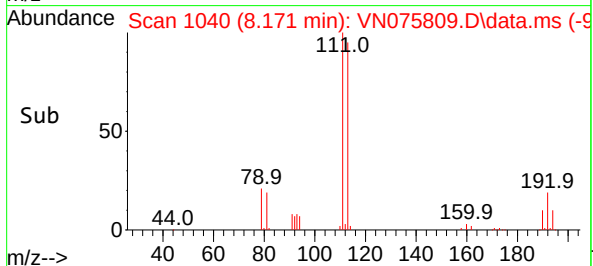
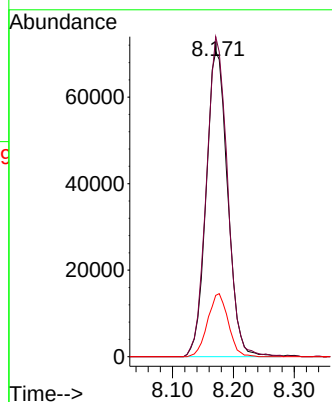
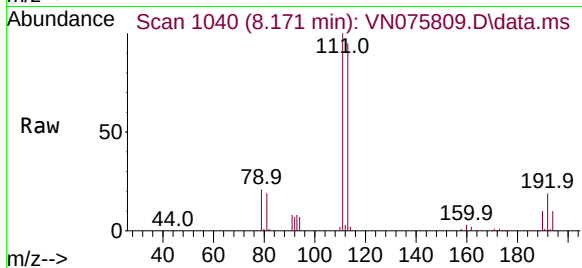
Tgt Ion:113 Resp: 173006

Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.2

192 19.8 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.598 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

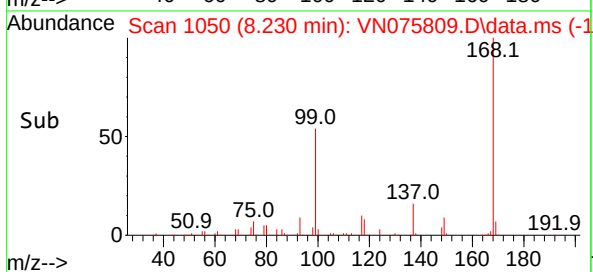
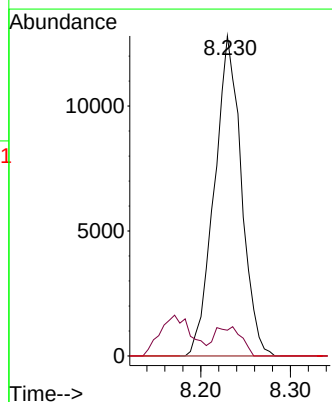
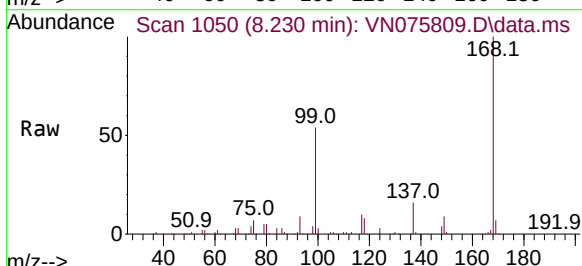
Tgt Ion: 75 Resp: 26756

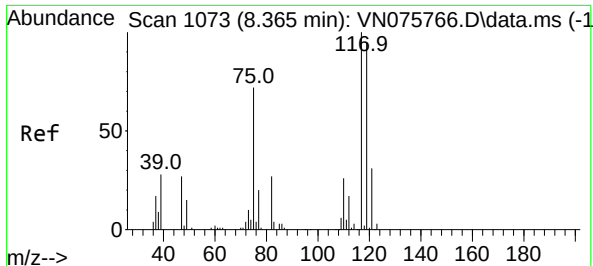
Ion Ratio Lower Upper

75 100

110 9.1 18.8 56.4#

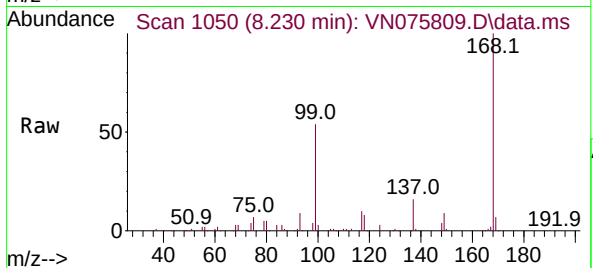
77 0.0 24.1 36.1#



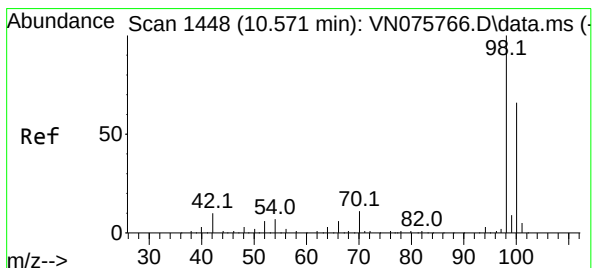
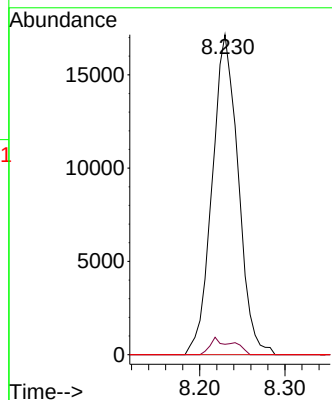
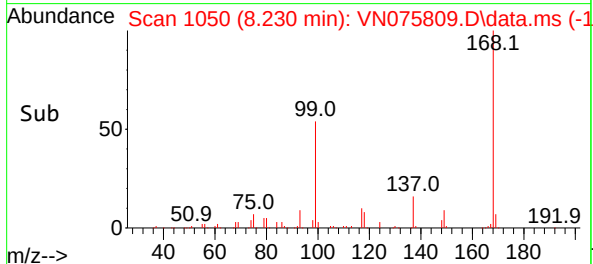


#38
Carbon Tetrachloride
Concen: 6.813 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

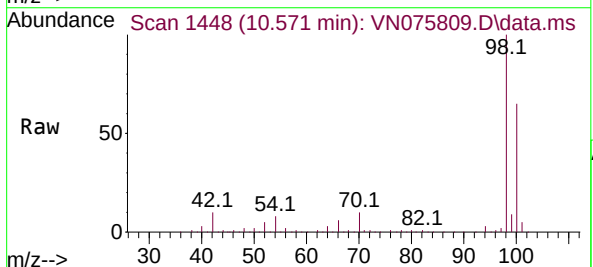
Instrument :
MSVOA_N
ClientSampleId :



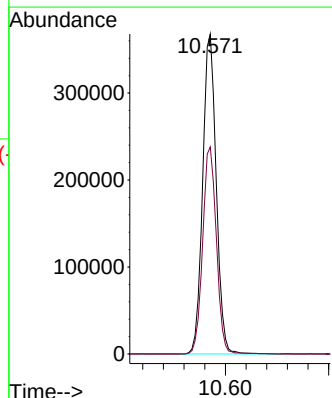
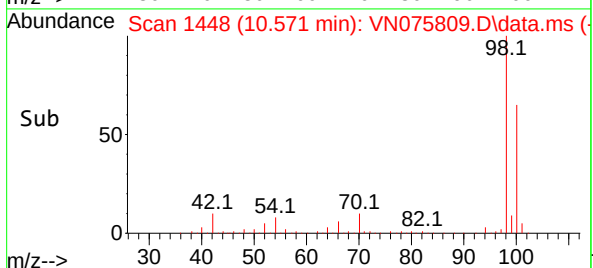
Tgt Ion:117 Resp: 36445
Ion Ratio Lower Upper
117 100
119 3.2 76.1 114.1#
121 0.0 24.5 36.7#

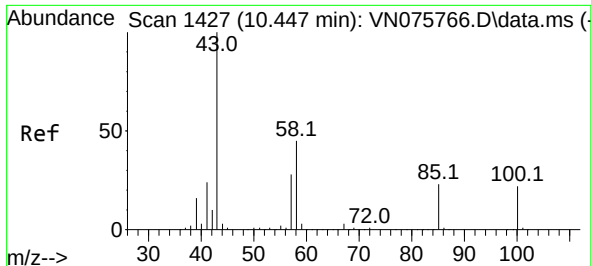


#50
Toluene-d8
Concen: 49.624 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38



Tgt Ion: 98 Resp: 667516
Ion Ratio Lower Upper
98 100
100 65.6 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 0.284 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

Instrument :

MSVOA_N

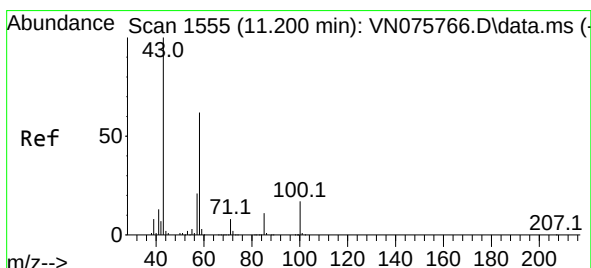
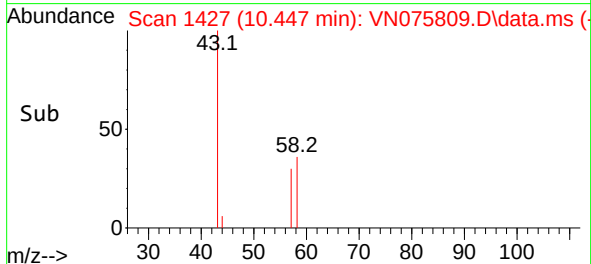
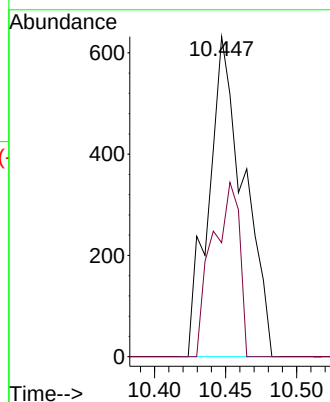
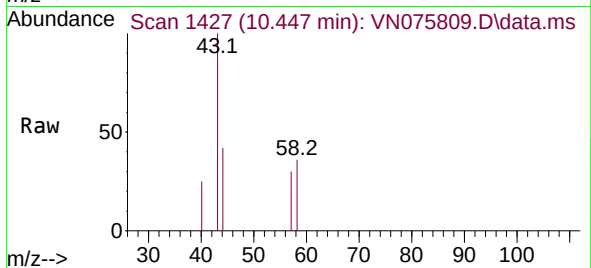
ClientSampleId :

Tgt Ion: 43 Resp: 1088

Ion Ratio Lower Upper

43 100

58 42.0 35.5 53.3



#59

2-Hexanone

Concen: 0.834 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN075809.D

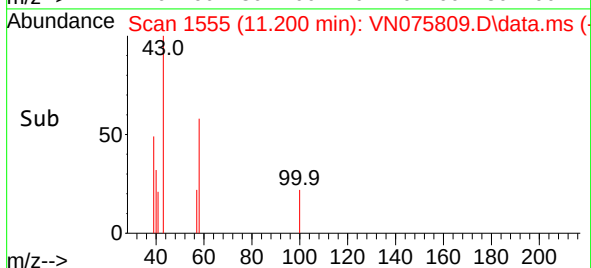
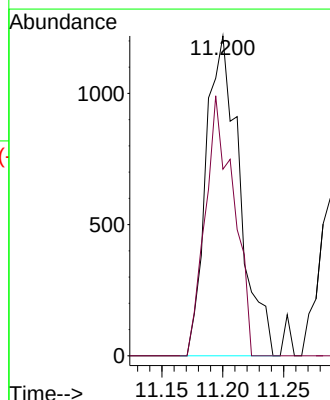
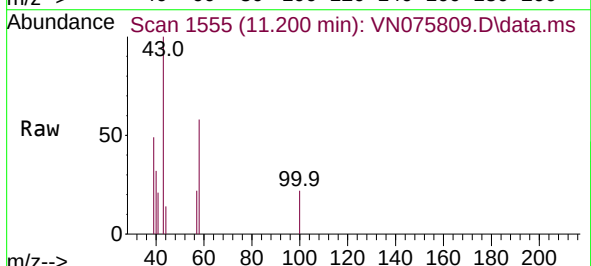
Acq: 15 Dec 2022 11:38

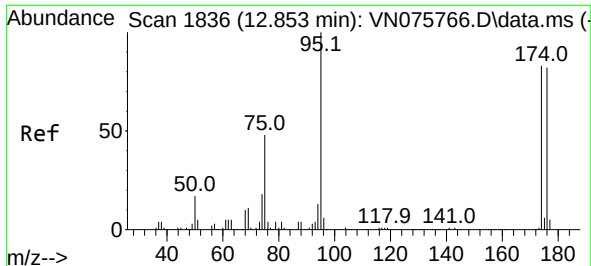
Tgt Ion: 43 Resp: 2328

Ion Ratio Lower Upper

43 100

58 68.9 30.6 92.0

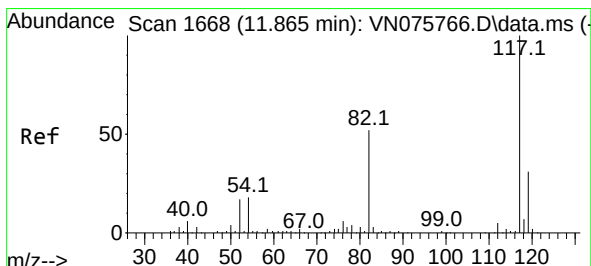
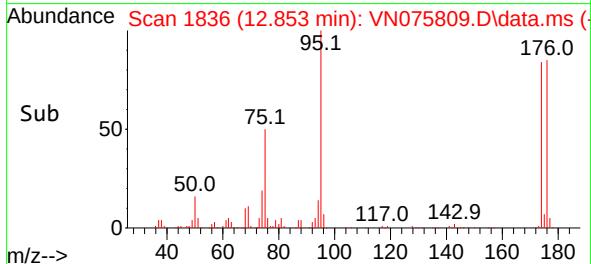
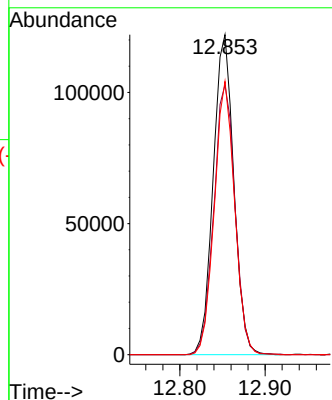
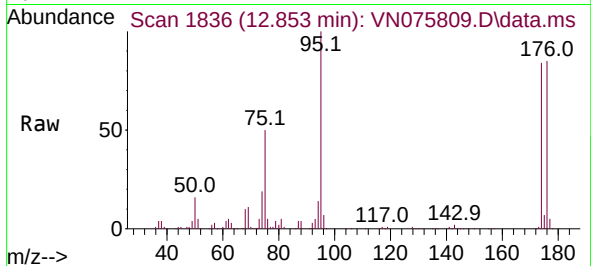




#62
4-Bromofluorobenzene
Concen: 46.033 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

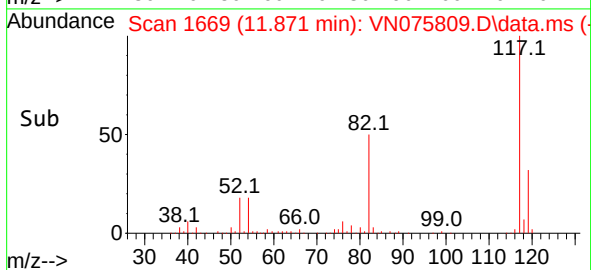
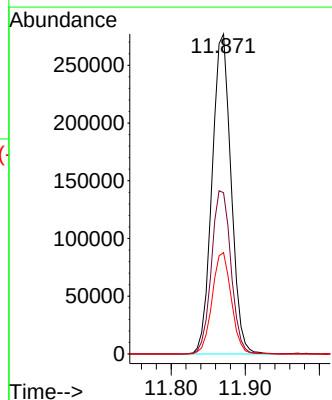
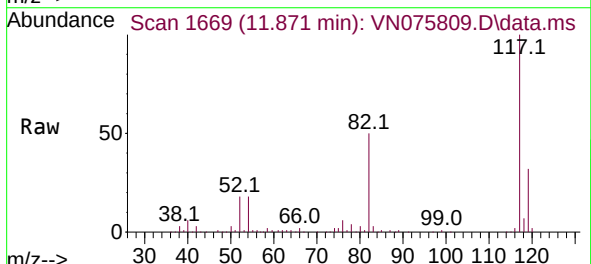
Instrument :
MSVOA_N
ClientSampleId :

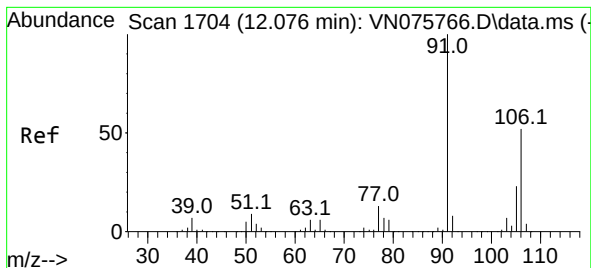
Tgt Ion: 95 Resp: 205089
Ion Ratio Lower Upper
95 100
174 86.9 0.0 171.6
176 84.0 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion: 117 Resp: 493336
Ion Ratio Lower Upper
117 100
82 50.4 41.3 61.9
119 31.7 24.6 37.0

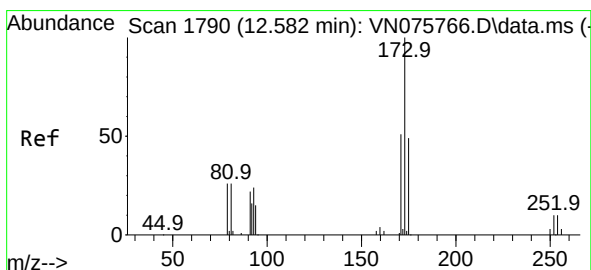
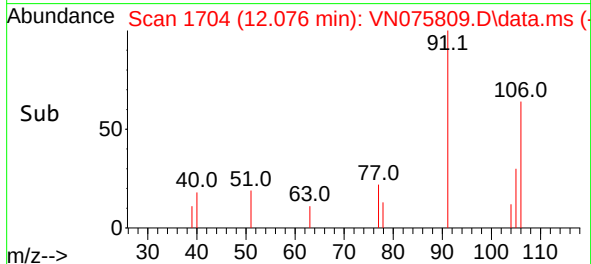
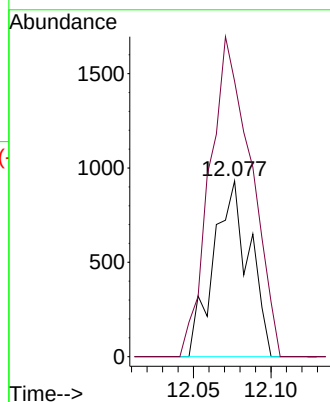
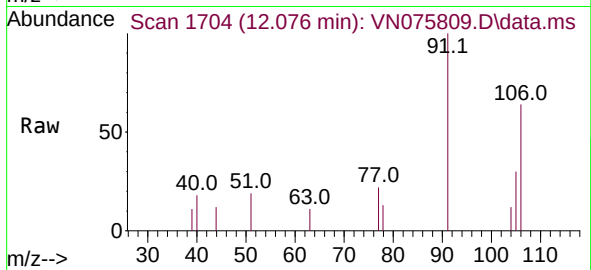




#68
m/p-Xylenes
Concen: 0.221 ug/l
RT: 12.076 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

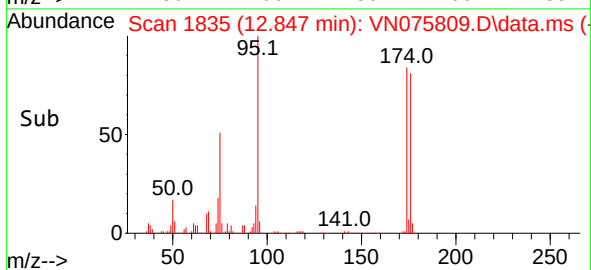
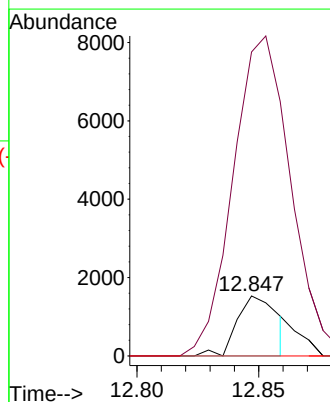
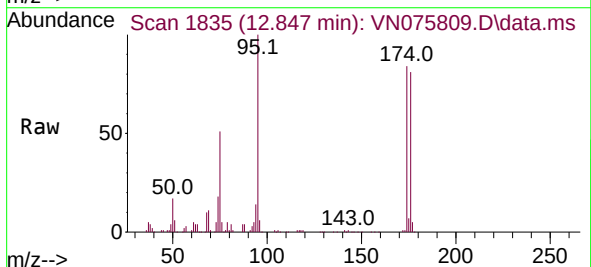
Instrument :
MSVOA_N
ClientSampleId :

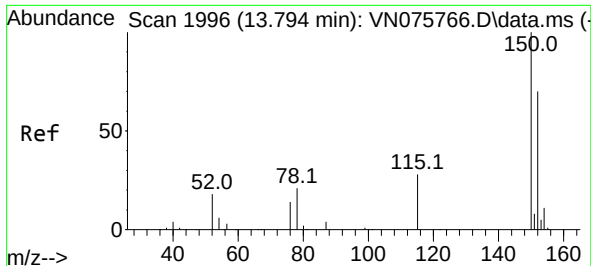
Tgt Ion:106 Resp: 1494
Ion Ratio Lower Upper
106 100
91 210.6 156.6 235.0



#71
Bromoform
Concen: 0.645 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion:173 Resp: 1761
Ion Ratio Lower Upper
173 100
175 632.9 24.3 72.8#
254 0.0 0.0 0.0

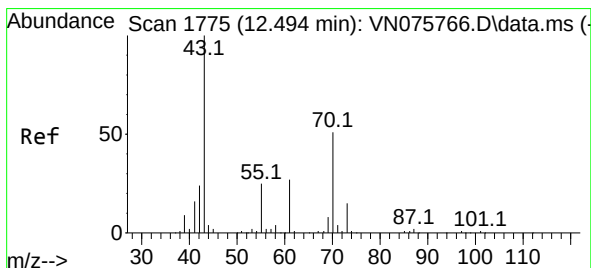
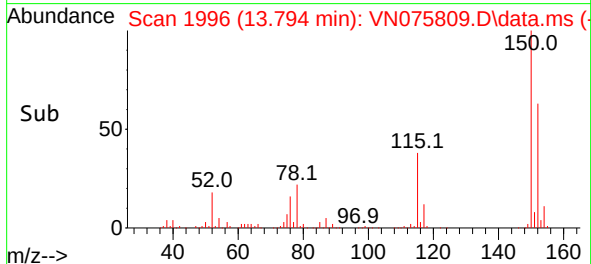
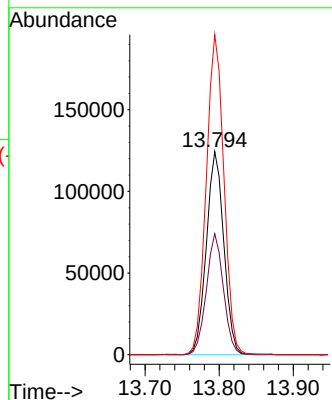
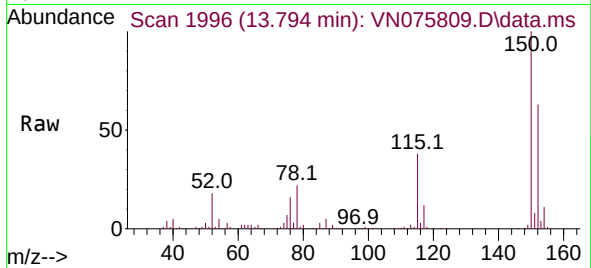




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

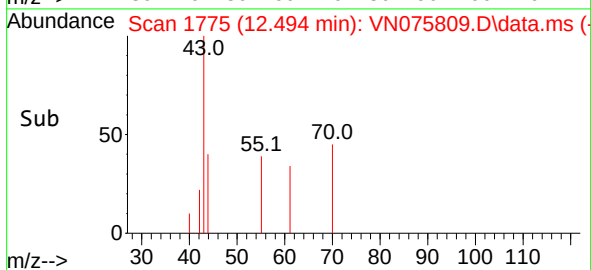
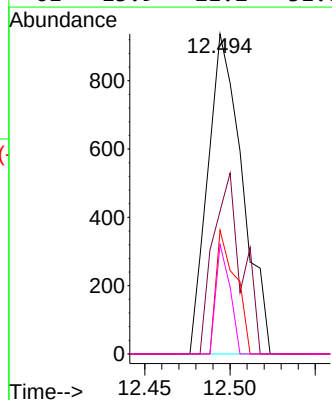
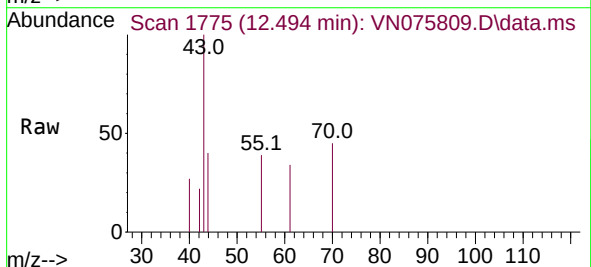
Instrument :
MSVOA_N
ClientSampleId :

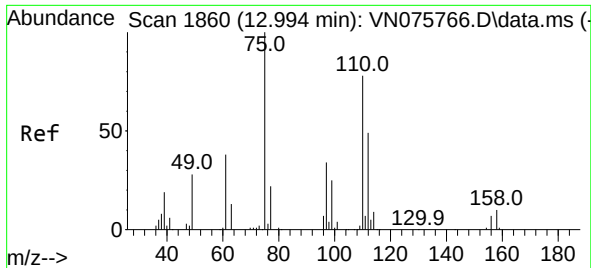
Tgt Ion:152 Resp: 203772
Ion Ratio Lower Upper
152 100
115 58.3 29.1 87.4
150 158.8 0.0 347.0



#74
N-ethyl acetate
Concen: 0.305 ug/l
RT: 12.494 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion: 43 Resp: 1317
Ion Ratio Lower Upper
43 100
70 46.7 41.4 62.0
55 21.9 21.3 31.9
61 13.9 21.2 31.8#

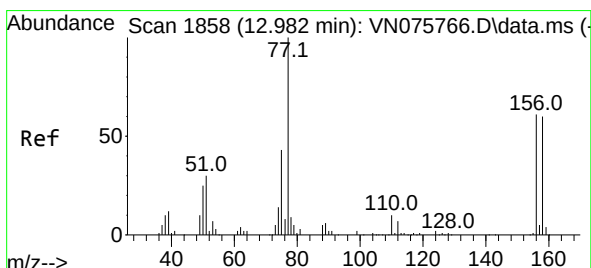
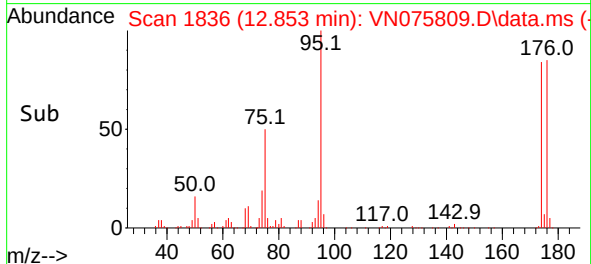
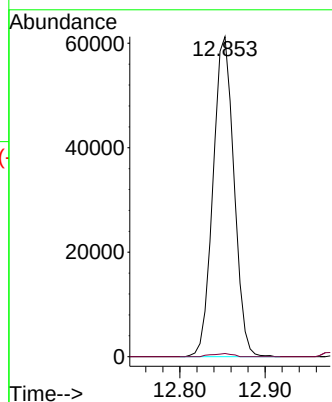
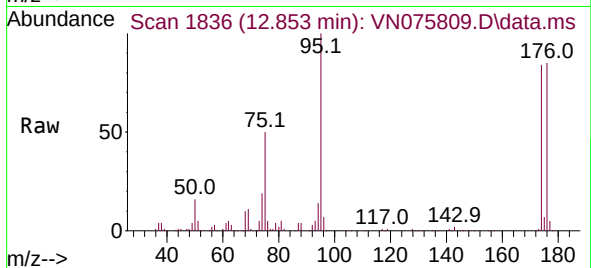




#76
1,2,3-Trichloropropane
Concen: 25.471 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

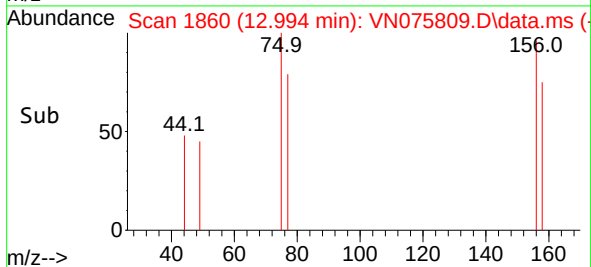
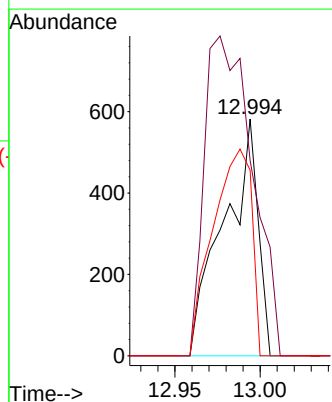
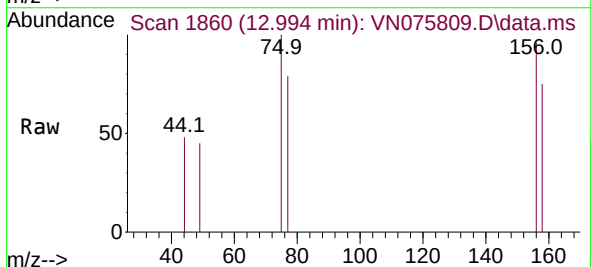
Instrument :
MSVOA_N
ClientSampleId :

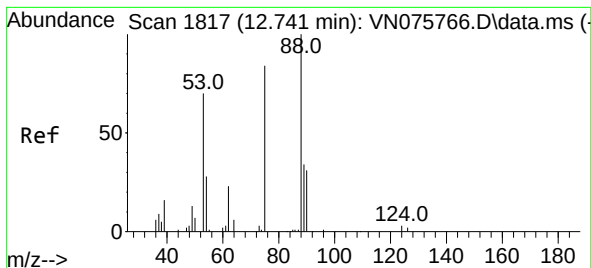
Tgt Ion: 75 Resp: 104622
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#77
Bromobenzene
Concen: 0.217 ug/l
RT: 12.994 min Scan# 1860
Delta R.T. 0.012 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion:156 Resp: 810
Ion Ratio Lower Upper
156 100
77 189.1 93.8 281.3
158 99.8 48.9 146.6

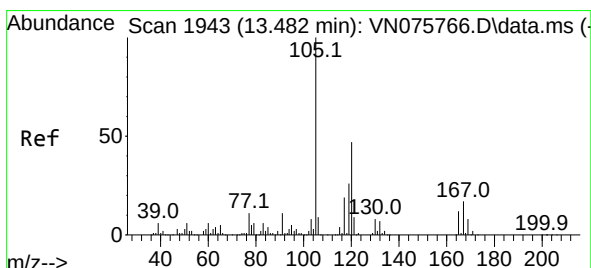
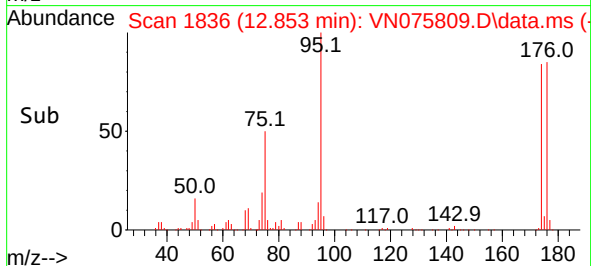
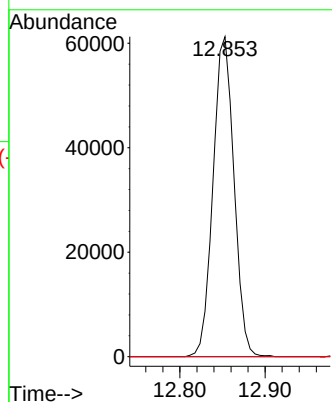
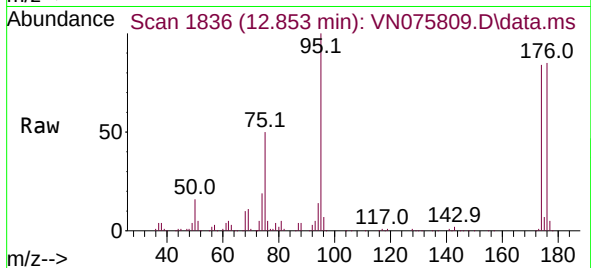




#81
trans-1,4-Dichloro-2-butene
Concen: 91.682 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

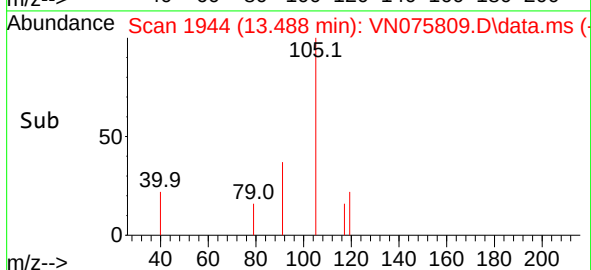
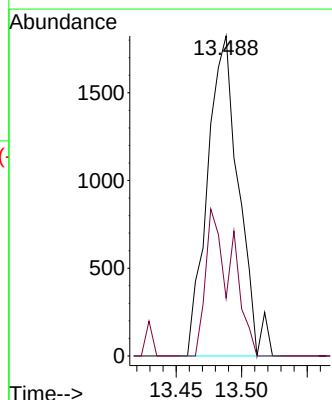
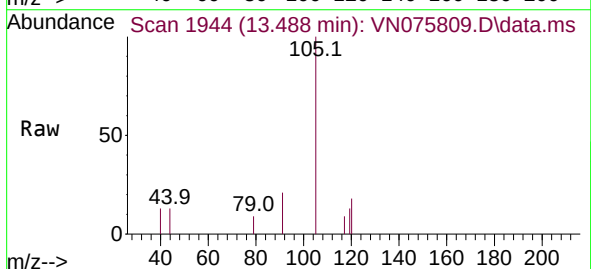
Instrument :
MSVOA_N
ClientSampleId :

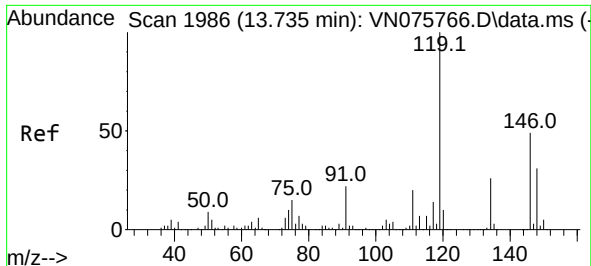
Tgt Ion: 75 Resp: 104622
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.247 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion:105 Resp: 3022
Ion Ratio Lower Upper
105 100
120 38.5 23.3 69.8





#87

1,3-Dichlorobenzene

Concen: 0.407 ug/l

RT: 13.729 min Scan# 1985

Delta R.T. -0.006 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

Instrument :

MSVOA_N

ClientSampleId :

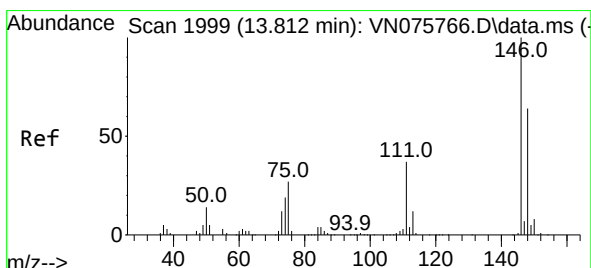
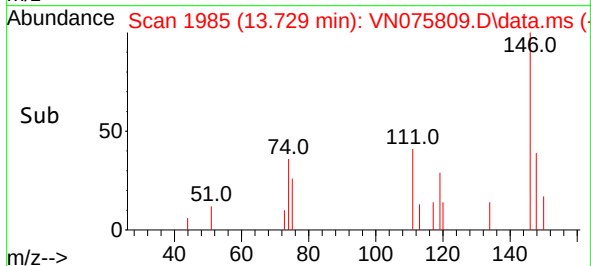
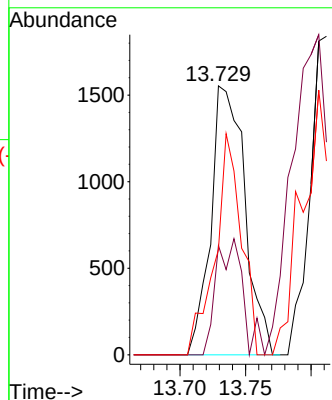
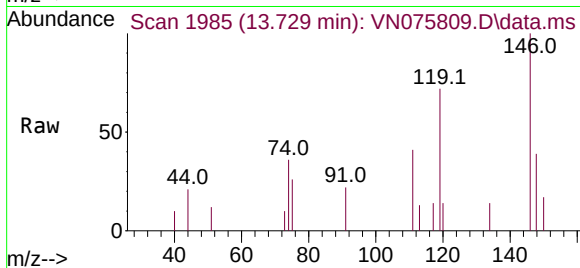
Tgt Ion:146 Resp: 2799

Ion Ratio Lower Upper

146 100

111 33.5 19.7 59.0

148 63.3 31.4 94.2



#88

1,4-Dichlorobenzene

Concen: 0.398 ug/l

RT: 13.729 min Scan# 1985

Delta R.T. -0.082 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

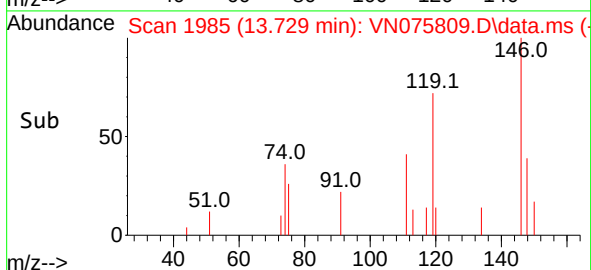
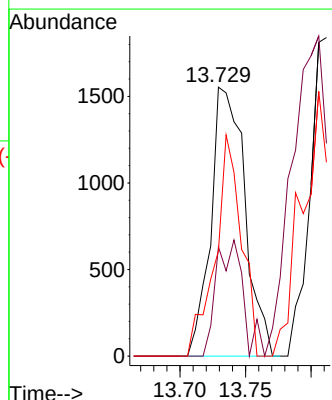
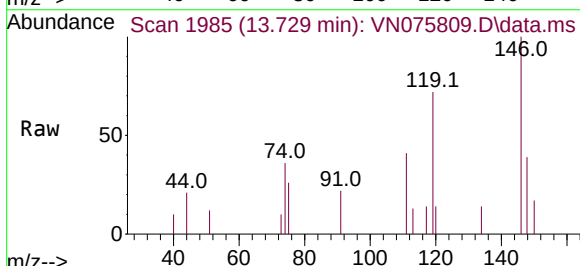
Tgt Ion:146 Resp: 2799

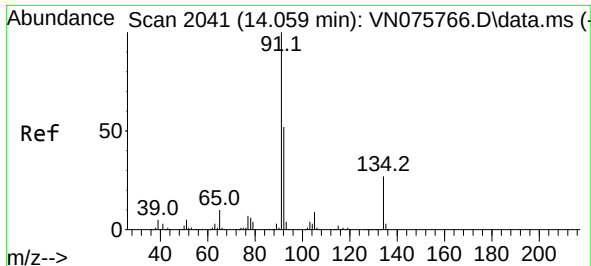
Ion Ratio Lower Upper

146 100

111 33.5 19.1 57.1

148 63.3 32.0 96.2

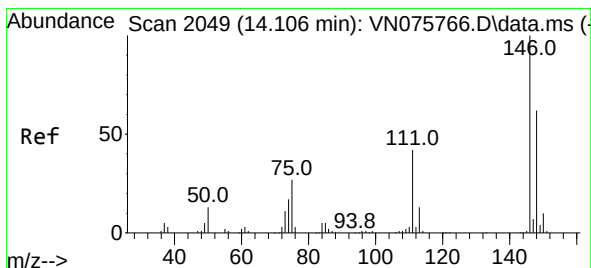
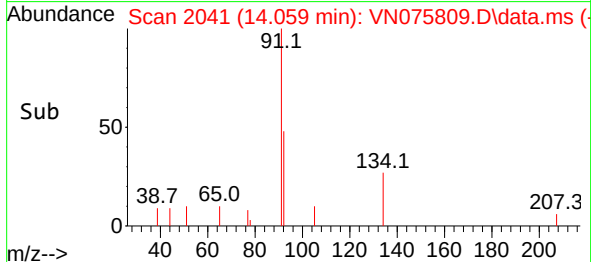
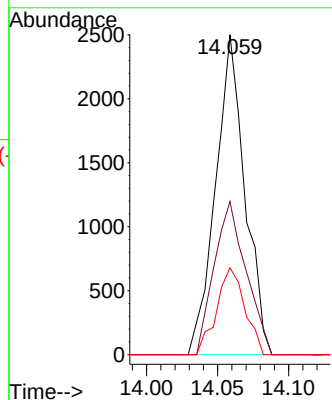
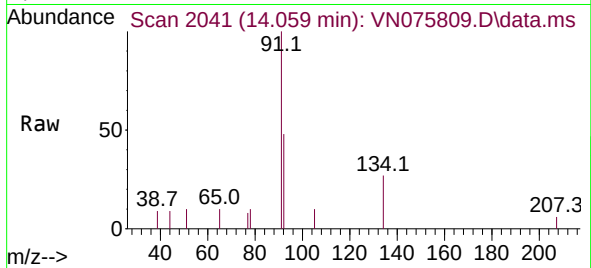




#89
n-Butylbenzene
Concen: 0.355 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

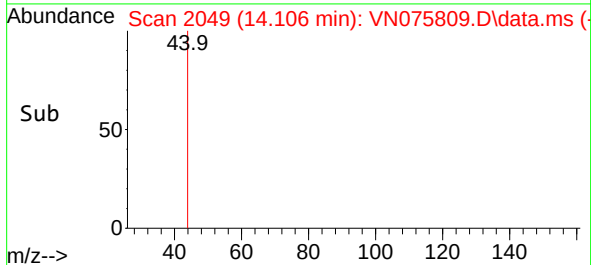
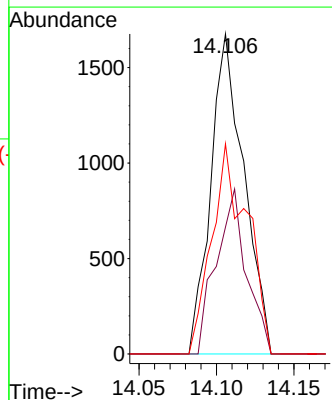
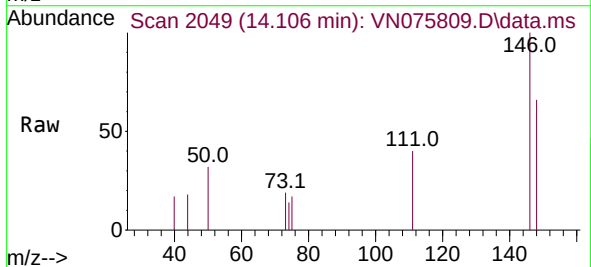
Instrument :
MSVOA_N
ClientSampleId :

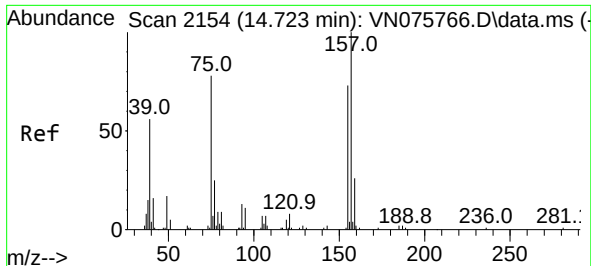
Tgt Ion: 91	Resp:	3585
Ion Ratio	Lower	Upper
91	100	
92	52.2	26.4 79.2
134	26.2	13.4 40.2



#91
1,2-Dichlorobenzene
Concen: 0.369 ug/l
RT: 14.106 min Scan# 2049
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion: 146	Resp:	2499
Ion Ratio	Lower	Upper
146	100	
111	47.1	20.3 61.0
148	70.3	31.7 95.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.234 ug/l

RT: 14.735 min Scan# 2154

Delta R.T. 0.012 min

Lab File: VN075809.D

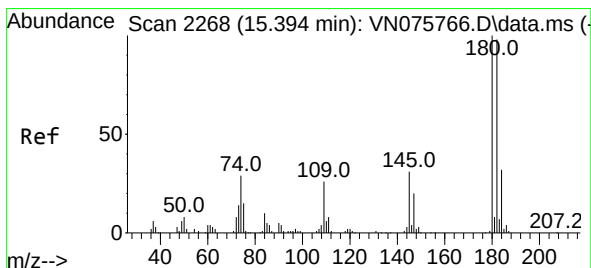
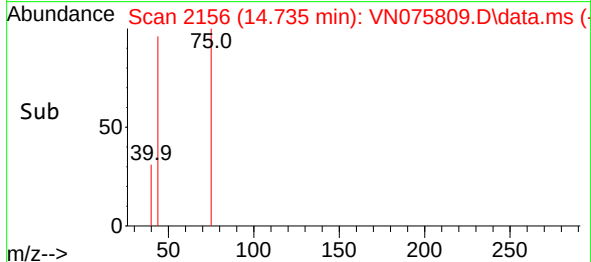
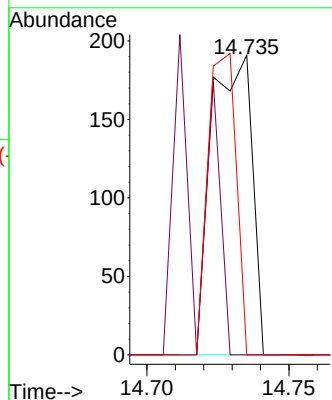
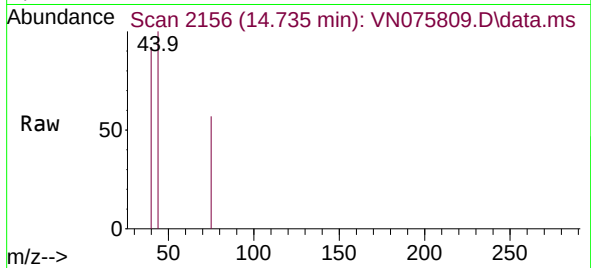
Acq: 15 Dec 2022 11:38

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 75 Resp: 189
 Ion Ratio Lower Upper
 75 100
 155 0.0 49.3 147.8#
 157 70.4 63.7 191.3



#93

1,2,4-Trichlorobenzene

Concen: 1.112 ug/l

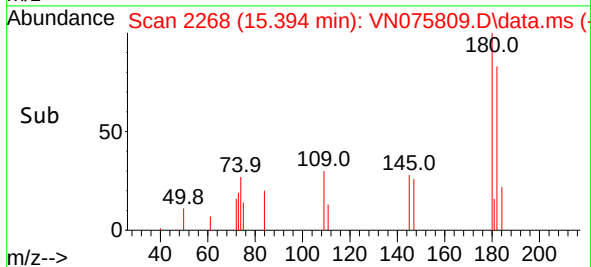
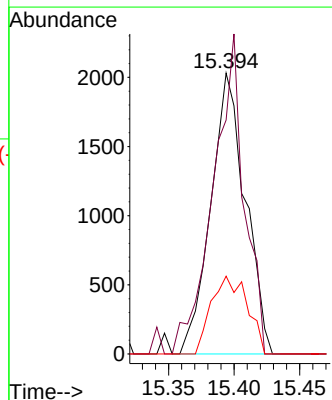
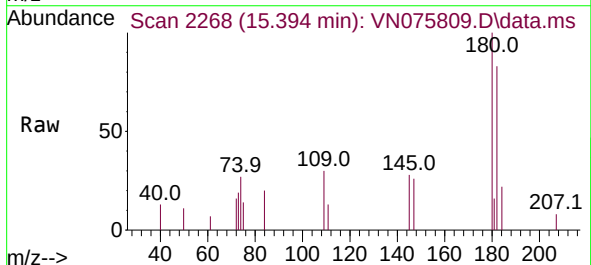
RT: 15.394 min Scan# 2268

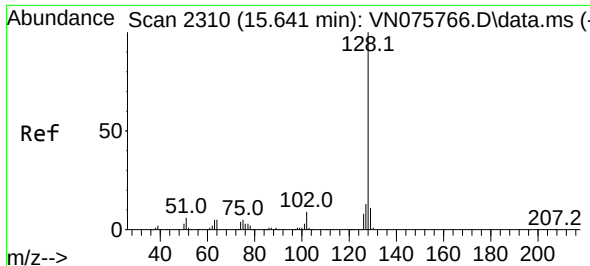
Delta R.T. 0.000 min

Lab File: VN075809.D

Acq: 15 Dec 2022 11:38

Tgt Ion: 180 Resp: 3732
 Ion Ratio Lower Upper
 180 100
 182 101.7 47.5 142.5
 145 28.9 15.3 45.8

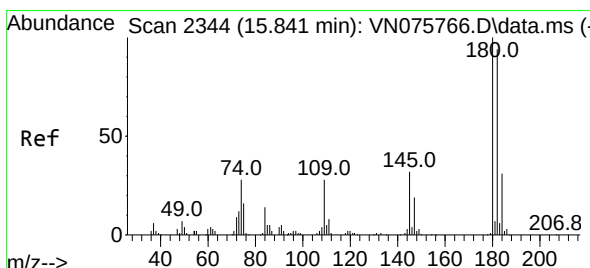
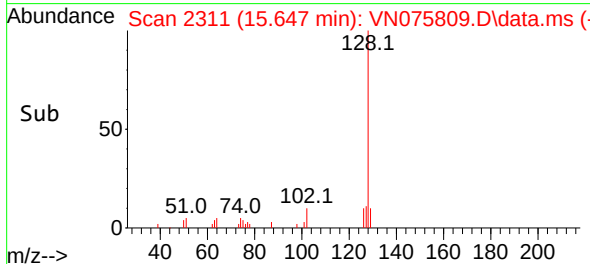
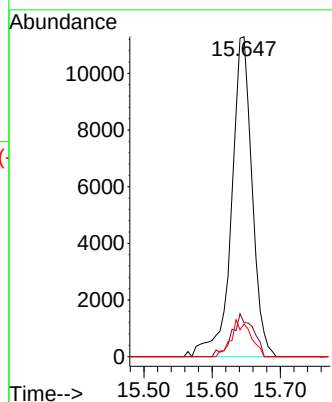
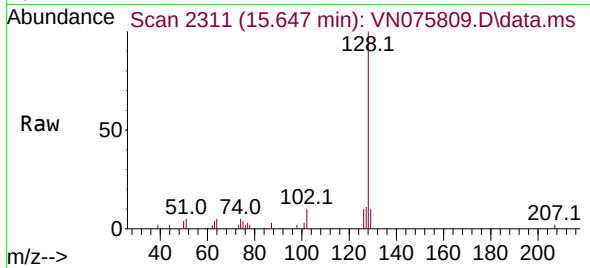




#95
Naphthalene
Concen: 4.216 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 23634
Ion Ratio Lower Upper
128 100
127 13.7 10.4 15.6
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.720 ug/l
RT: 15.841 min Scan# 2344
Delta R.T. 0.000 min
Lab File: VN075809.D
Acq: 15 Dec 2022 11:38

Tgt Ion:180 Resp: 5397
Ion Ratio Lower Upper
180 100
182 78.4 47.0 141.0
145 26.4 16.0 47.9

