

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
 Data File : VN080048.D
 Acq On : 10 Nov 2023 13:12
 Operator : JC\MD
 Sample : 05325-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 231108067-02-VOA

Quant Time: Nov 10 23:56:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

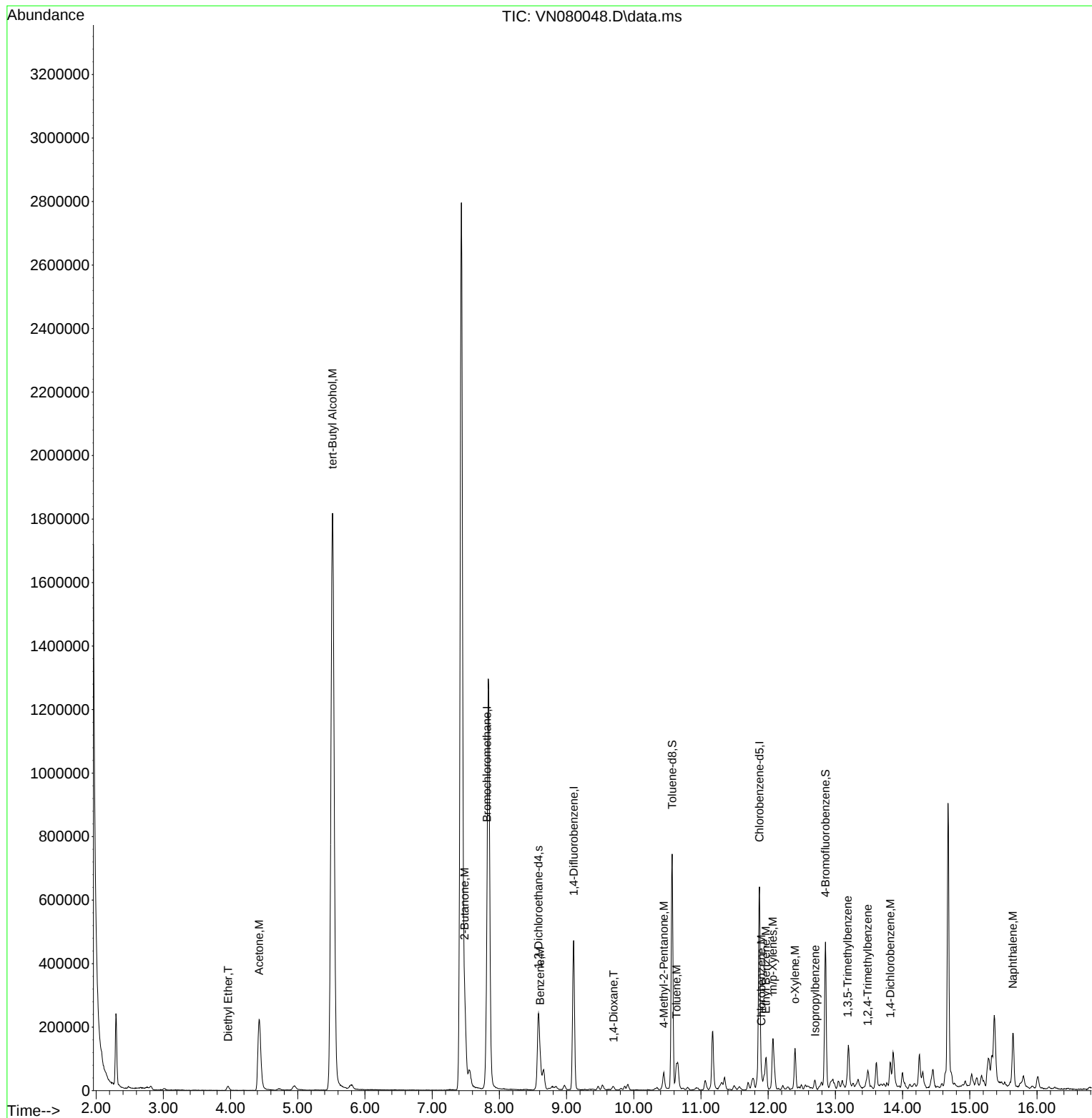
Internal Standards						
1) Bromochloromethane	7.818	128	73283	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	389277	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	362641	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	189579	30.818	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.733%			
60) 4-Bromofluorobenzene	12.853	95	157488	27.157	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.533%			
63) Toluene-d8	10.570	98	491376	28.597	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.333%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.965	74	6412	2.366	ug/l	87
15) Acetone	4.424	58	130407	166.224	ug/l	82
23) tert-Butyl Alcohol	5.518	59	3320008	5293.934	ug/l #	100
30) 2-Butanone	7.482	43	321039	100.618	ug/l	95
34) Benzene	8.606	78	64010	3.225	ug/l #	71
45) 1,4-Dioxane	9.700	88	5980	79.453	ug/l #	84
58) 4-Methyl-2-Pentanone	10.447	43	40061	6.612	ug/l #	88
62) Toluene	10.635	91	48011	2.289	ug/l	97
64) Chlorobenzene	11.900	112	11921	0.952	ug/l #	81
66) Ethyl Benzene	11.965	91	62263	2.825	ug/l	93
67) m/p-Xylenes	12.070	106	48809	5.948	ug/l	95
68) o-Xylene	12.400	106	30810	3.917	ug/l	95
70) Isopropylbenzene	12.700	105	9855	0.502	ug/l	98
76) 1,3,5-Trimethylbenzene	13.182	105	7207	0.444	ug/l	85
80) 1,2,4-Trimethylbenzene	13.482	105	27964	1.757	ug/l	92
84) 1,4-Dichlorobenzene	13.817	146	19579	2.270	ug/l	93
91) Naphthalene	15.641	128	150841	12.084	ug/l	99

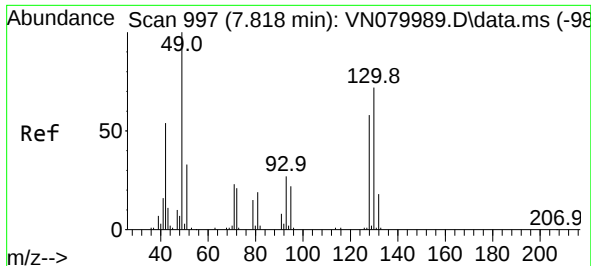
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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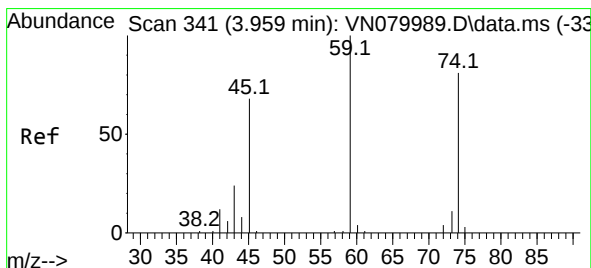
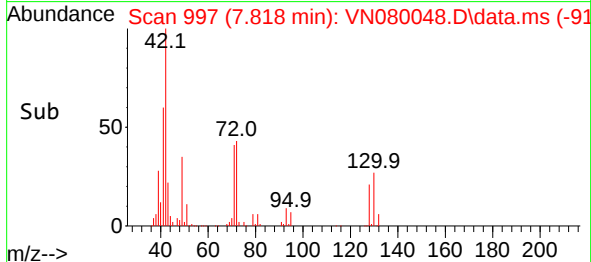
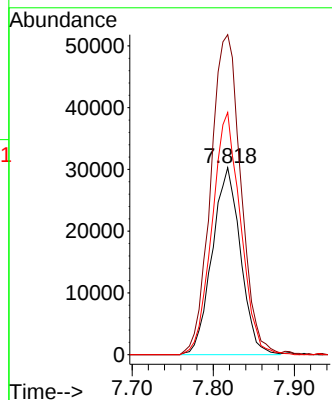
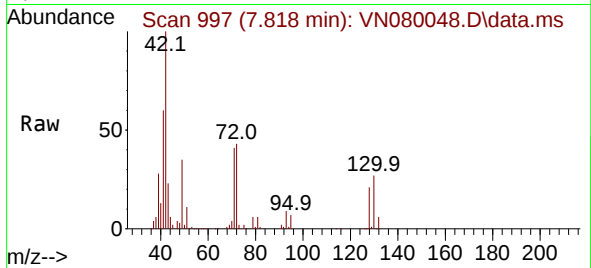




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

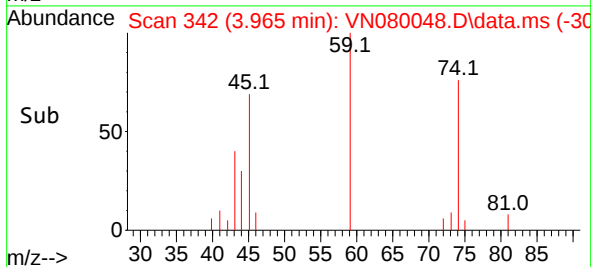
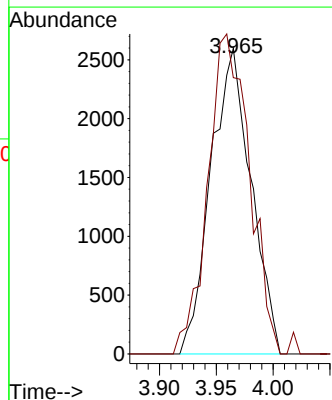
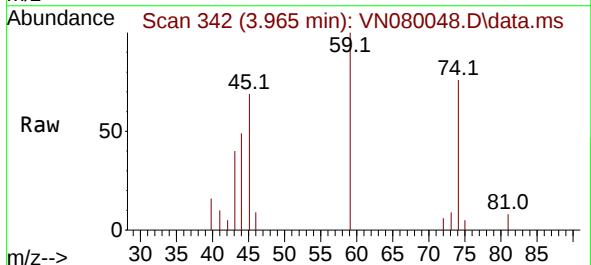
Instrument :
MSVOA_N
ClientSampleId :
231108067-02-VOA

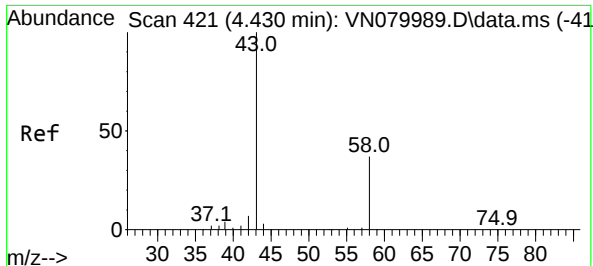
Tgt Ion:128 Resp: 73283
Ion Ratio Lower Upper
128 100
49 182.2 0.0 468.5
130 130.5 0.0 320.7



#8
Diethyl Ether
Concen: 2.366 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion: 74 Resp: 6412
Ion Ratio Lower Upper
74 100
45 107.8 19.0 171.0

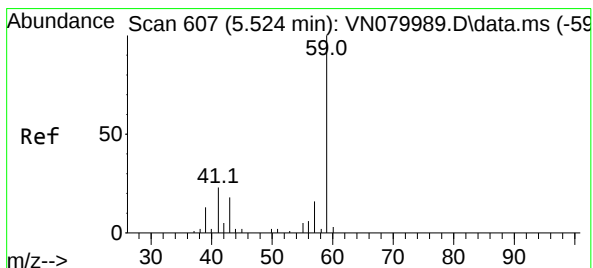
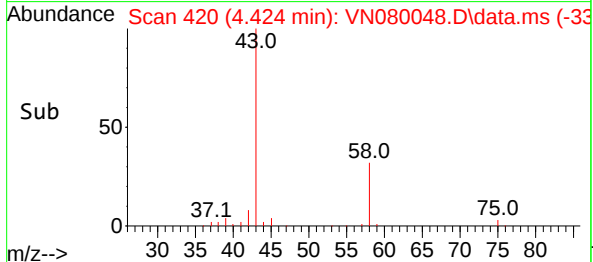
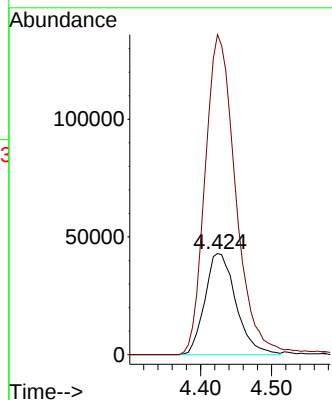
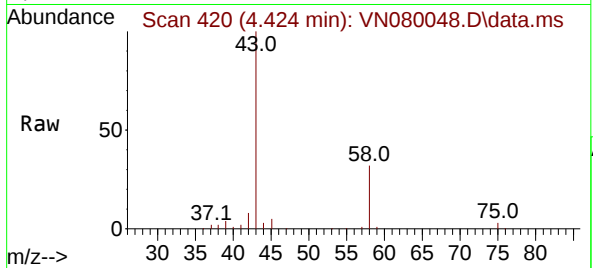




#15
Acetone
Concen: 166.224 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

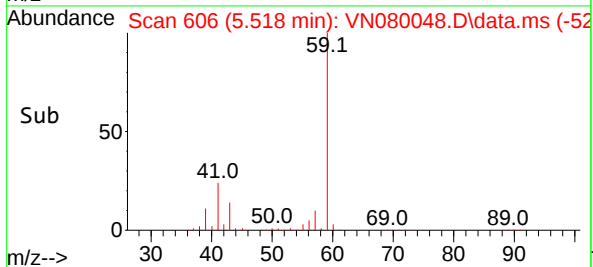
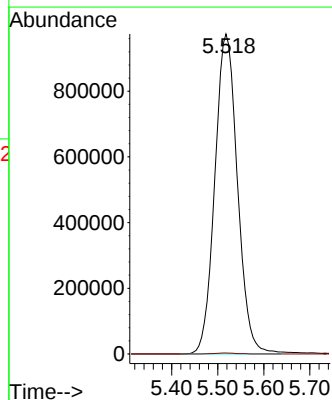
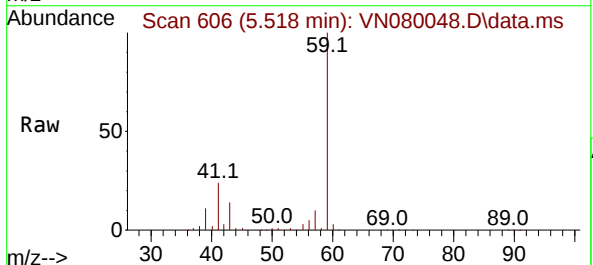
Instrument :
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ClientSampleId :
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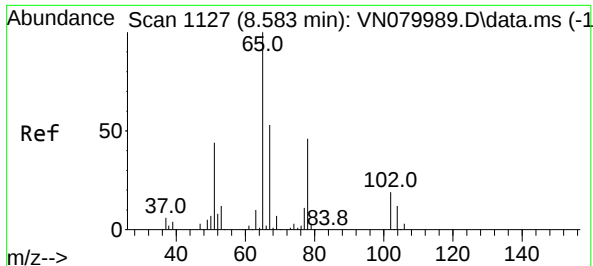
Tgt Ion: 58 Resp: 130407
Ion Ratio Lower Upper
58 100
43 315.8 225.2 337.8



#23
tert-Butyl Alcohol
Concen: 5293.934 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion: 59 Resp: 3320008
Ion Ratio Lower Upper
59 100
52 0.3 0.0 0.0#

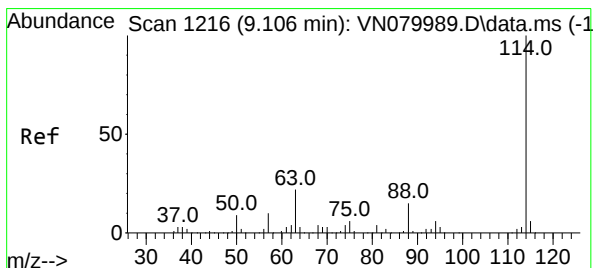
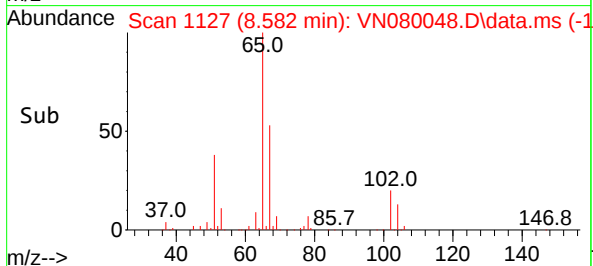
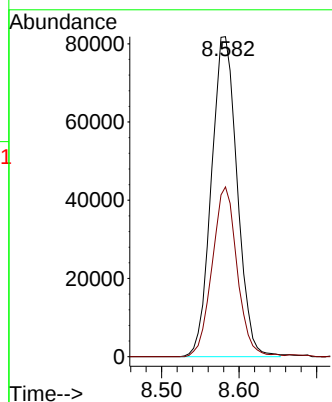
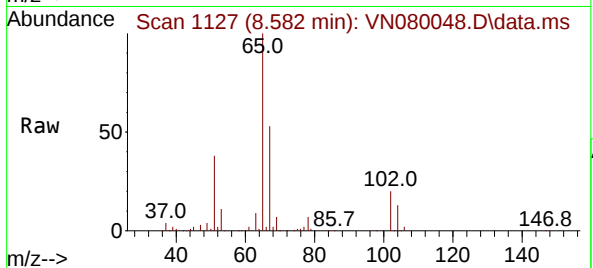




#27
1,2-Dichloroethane-d4
Concen: 30.818 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

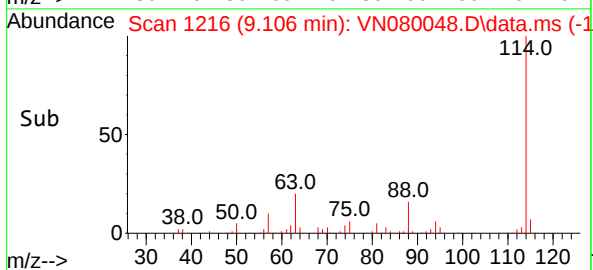
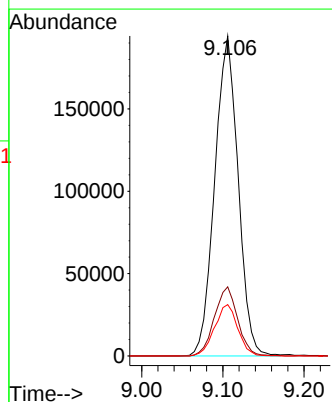
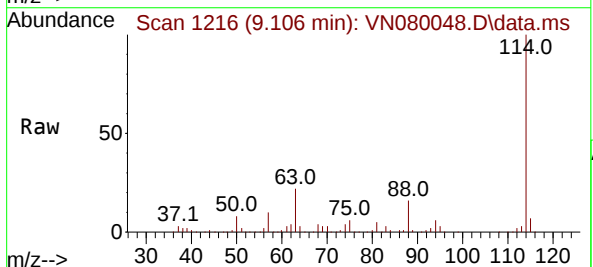
Instrument :
MSVOA_N
ClientSampleId :
231108067-02-VOA

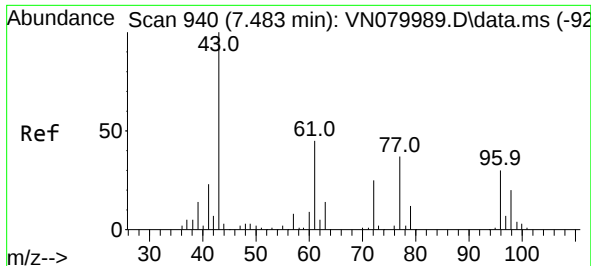
Tgt Ion: 65 Resp: 189579
Ion Ratio Lower Upper
65 100
67 51.1 42.1 63.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion: 114 Resp: 389277
Ion Ratio Lower Upper
114 100
63 21.4 18.1 27.1
88 16.0 12.2 18.2

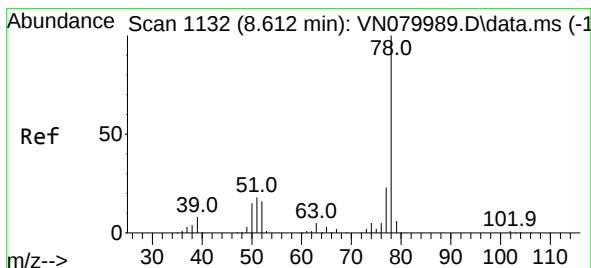
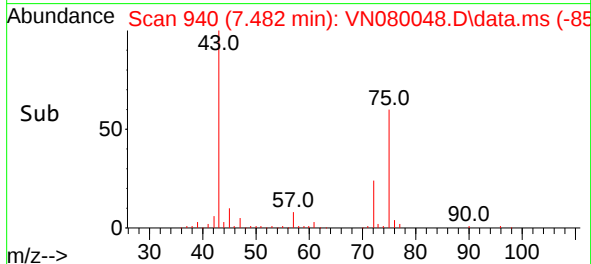
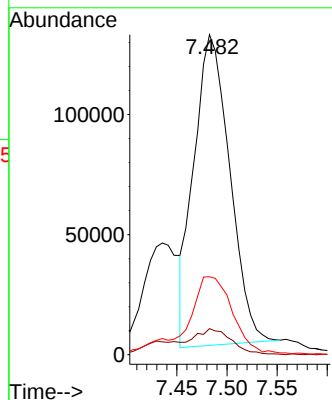
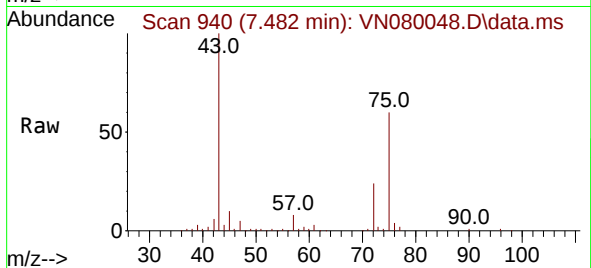




#30
2-Butanone
Concen: 100.618 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

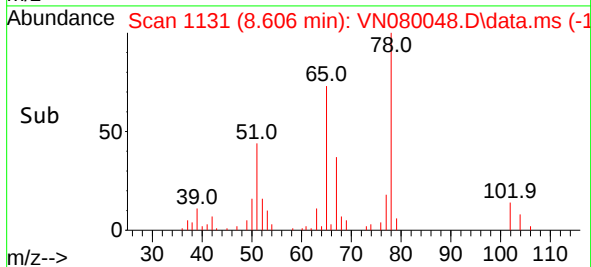
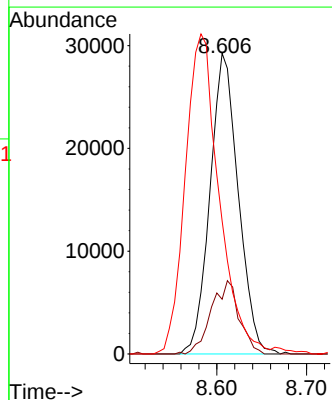
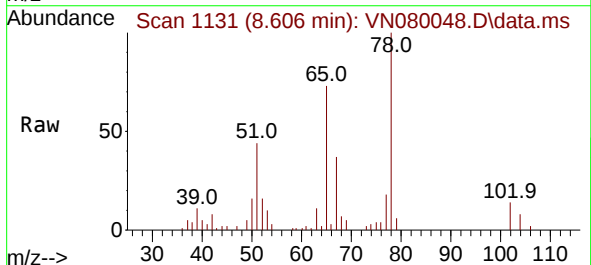
Instrument :
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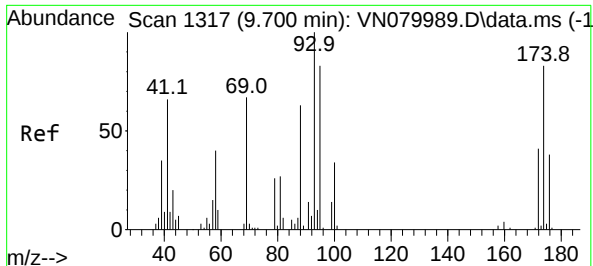
Tgt Ion: 43 Resp: 321039
Ion Ratio Lower Upper
43 100
57 9.0 6.4 9.6
72 28.5 20.7 31.1



#34
Benzene
Concen: 3.225 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion: 78 Resp: 64010
Ion Ratio Lower Upper
78 100
77 18.2 19.7 29.5#
51 42.4 15.8 23.6#





#45

1,4-Dioxane

Concen: 79.453 ug/l

RT: 9.700 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN080048.D

Acq: 10 Nov 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

231108067-02-VOA

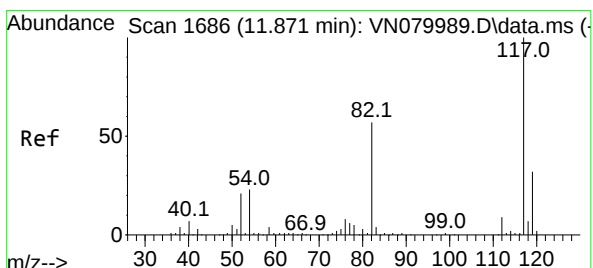
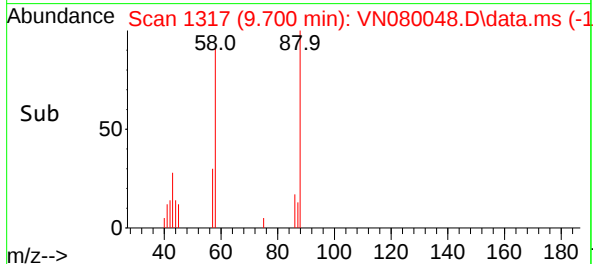
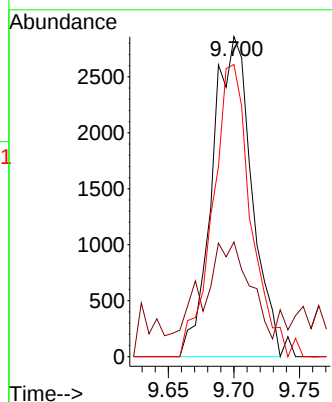
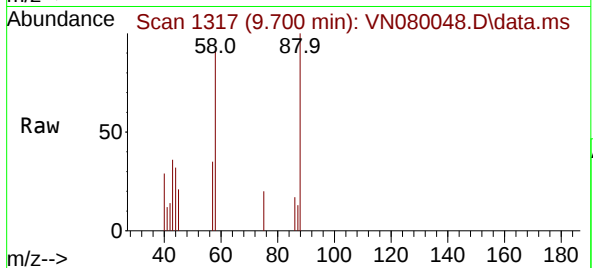
Tgt Ion: 88 Resp: 5980

Ion Ratio Lower Upper

88 100

43 31.9 28.7 43.1

58 87.6 56.9 85.3#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN080048.D

Acq: 10 Nov 2023 13:12

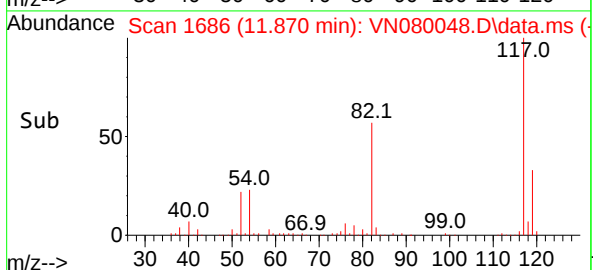
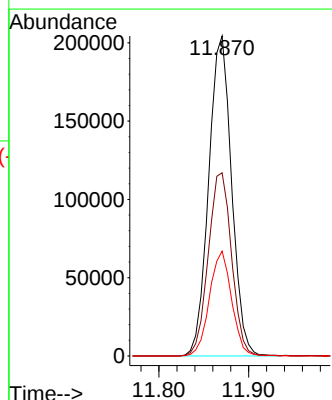
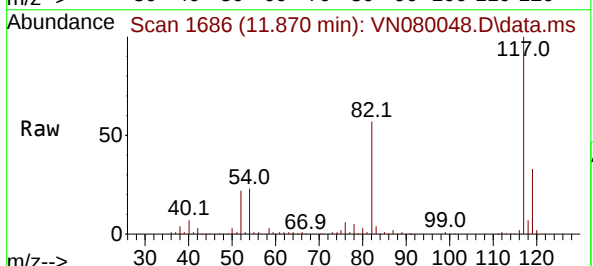
Tgt Ion: 117 Resp: 362641

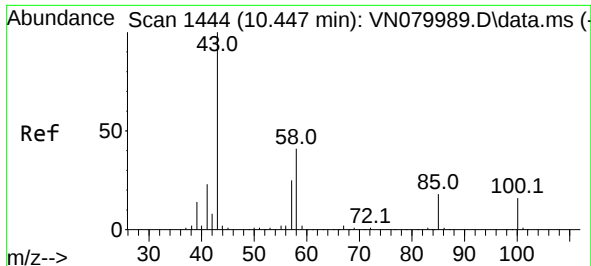
Ion Ratio Lower Upper

117 100

82 58.2 46.2 69.2

119 31.7 25.2 37.8

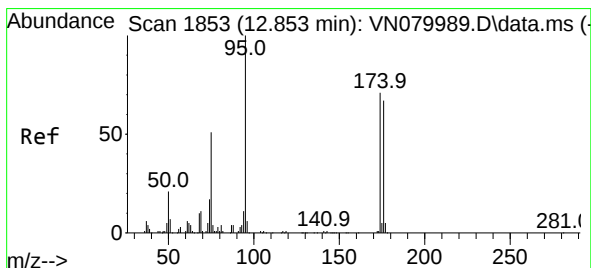
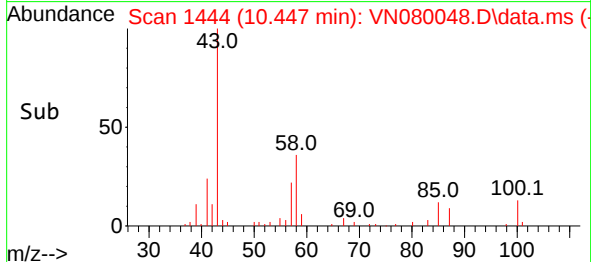
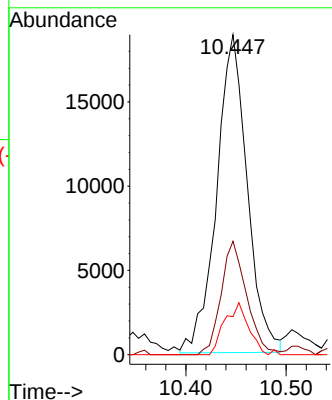
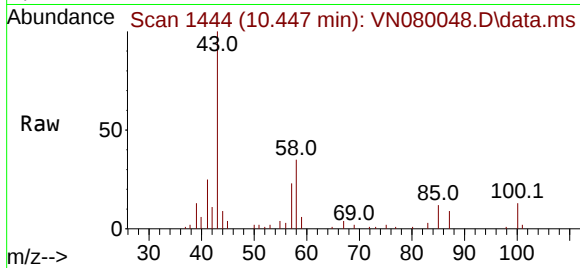




#58
4-Methyl-2-Pentanone
Concen: 6.612 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

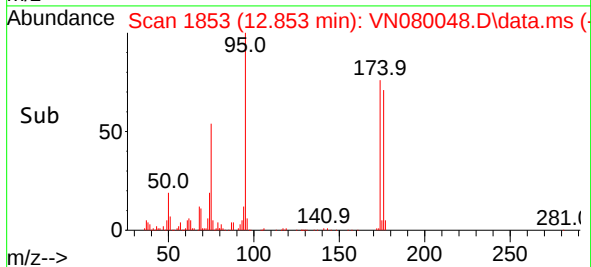
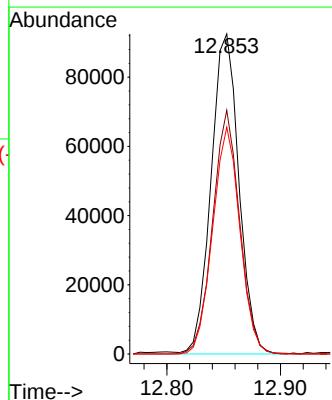
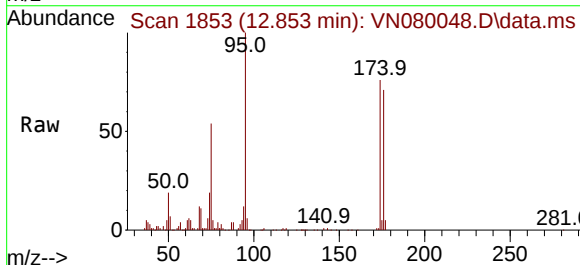
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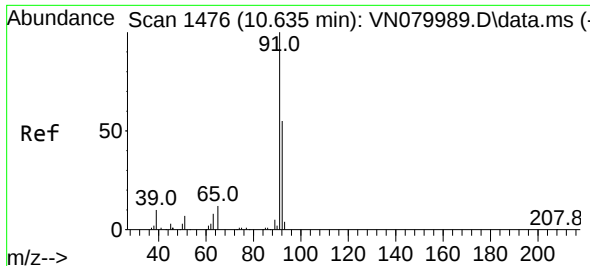
Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.8	30.4	45.6#
85	12.7	13.2	19.8#



#60
4-Bromofluorobenzene
Concen: 27.157 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.7	60.5	90.7
176	69.5	57.2	85.8

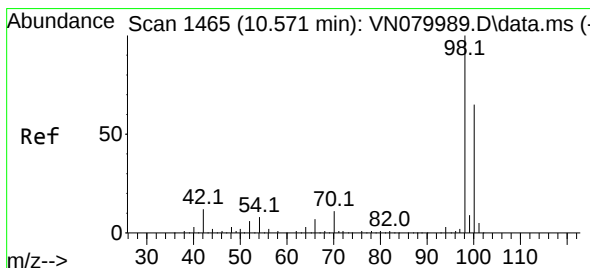
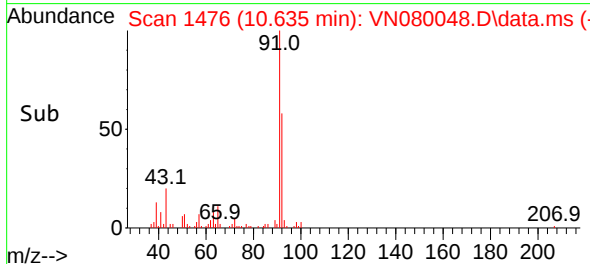
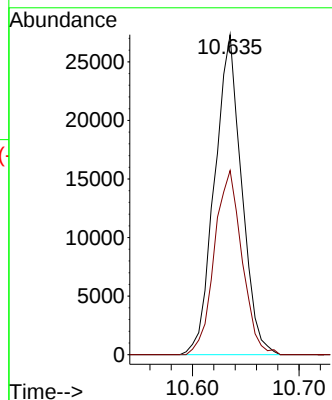
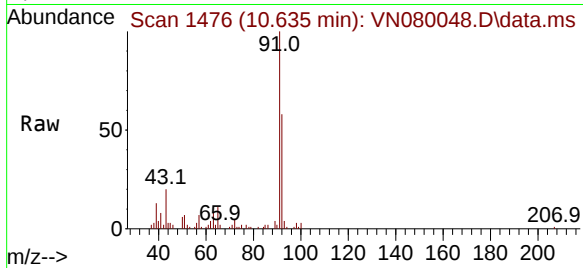




#62
Toluene
Concen: 2.289 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

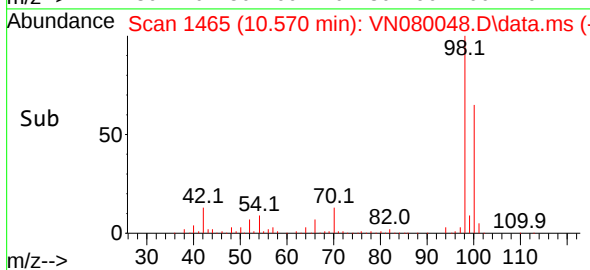
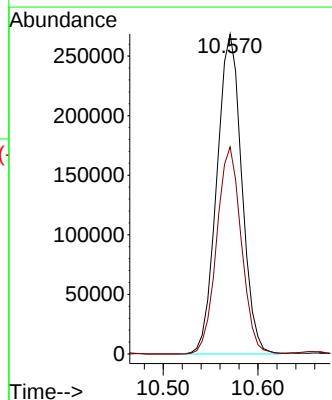
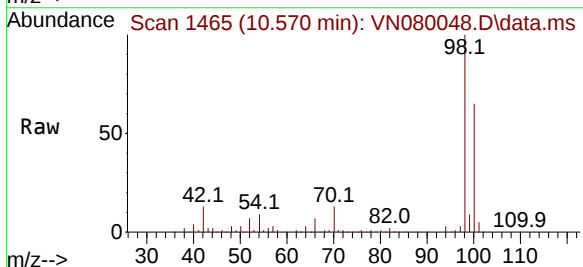
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231108067-02-VOA

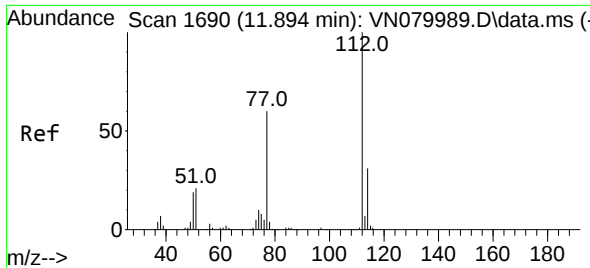
Tgt Ion: 91 Resp: 48011
Ion Ratio Lower Upper
91 100
92 58.9 45.3 67.9



#63
Toluene-d8
Concen: 28.597 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion: 98 Resp: 491376
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4

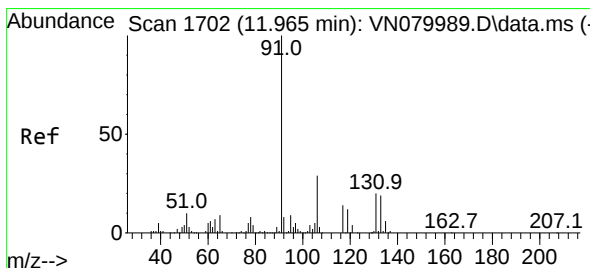
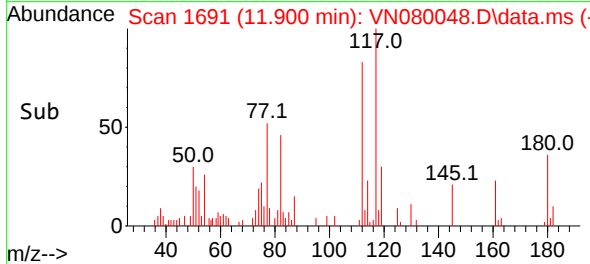
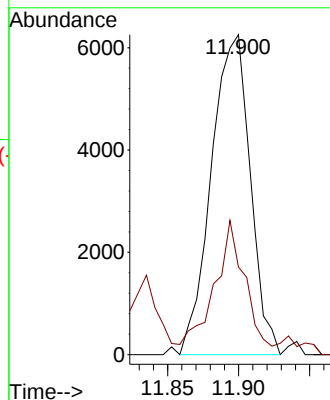
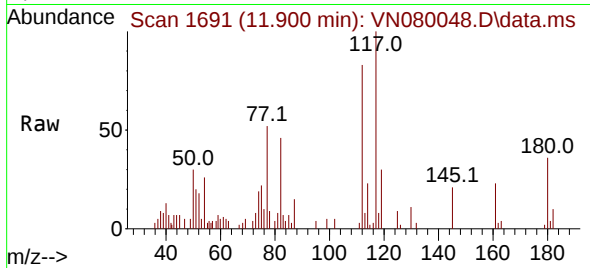




#64
Chlorobenzene
Concen: 0.952 ug/l
RT: 11.900 min Scan# 11921
Delta R.T. 0.006 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

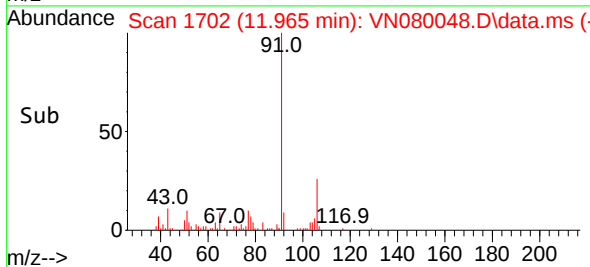
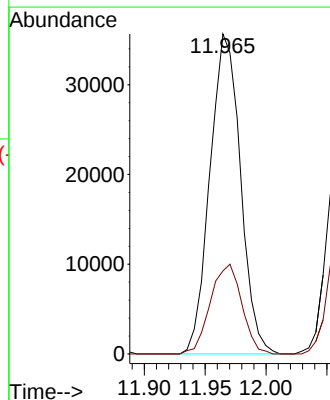
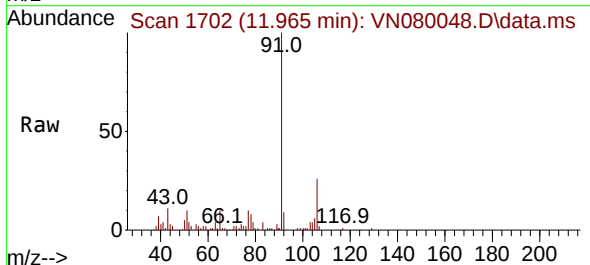
Instrument :
MSVOA_N
ClientSampleId :
231108067-02-VOA

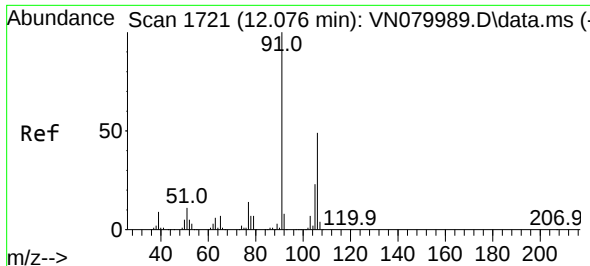
Tgt Ion:112 Resp: 11921
Ion Ratio Lower Upper
112 100
114 24.2 28.1 42.1#



#66
Ethyl Benzene
Concen: 2.825 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.005 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion: 91 Resp: 62263
Ion Ratio Lower Upper
91 100
106 25.9 23.8 35.8

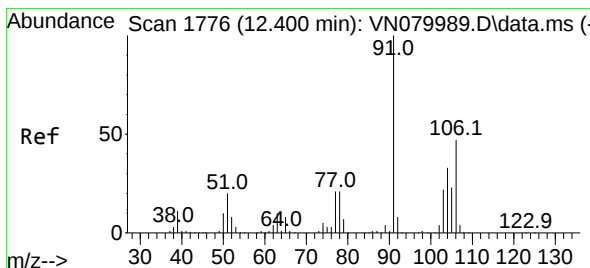
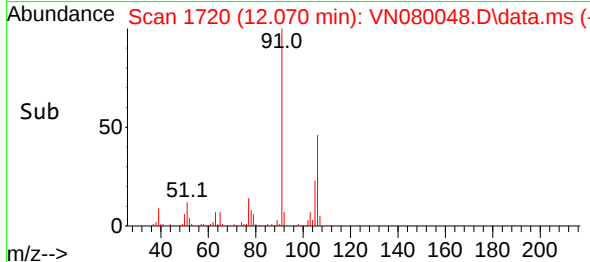
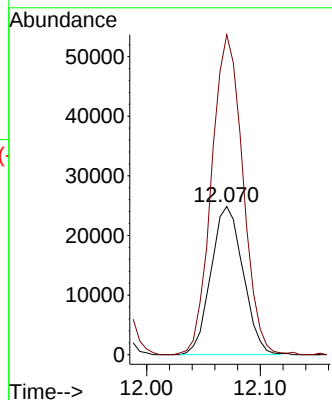
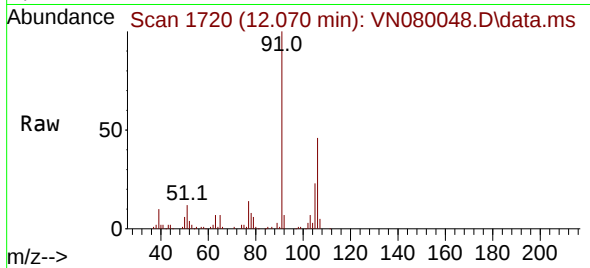




#67
m/p-Xylenes
Concen: 5.948 ug/l
RT: 12.070 min Scan# 1721
Delta R.T. -0.006 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

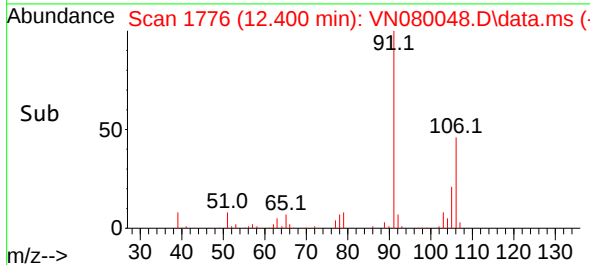
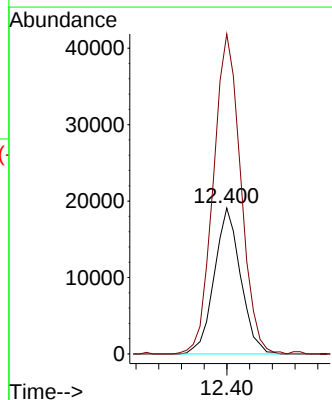
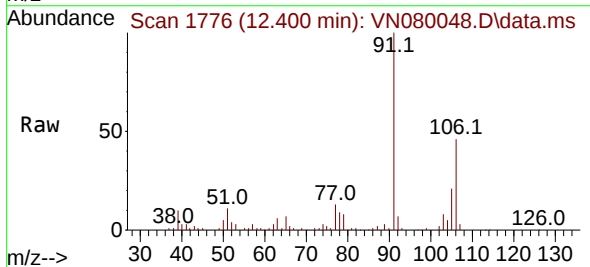
Instrument :
MSVOA_N
ClientSampleId :
231108067-02-VOA

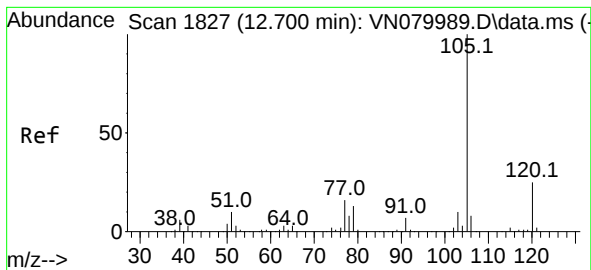
Tgt Ion:106 Resp: 48809
Ion Ratio Lower Upper
106 100
91 210.4 161.8 242.6



#68
o-Xylene
Concen: 3.917 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Tgt Ion:106 Resp: 30810
Ion Ratio Lower Upper
106 100
91 228.0 109.9 329.7





#70

Isopropylbenzene

Concen: 0.502 ug/l

RT: 12.700 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN080048.D

Acq: 10 Nov 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

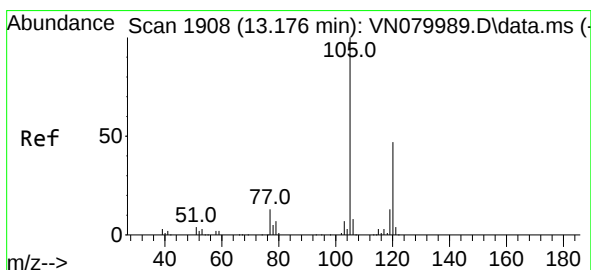
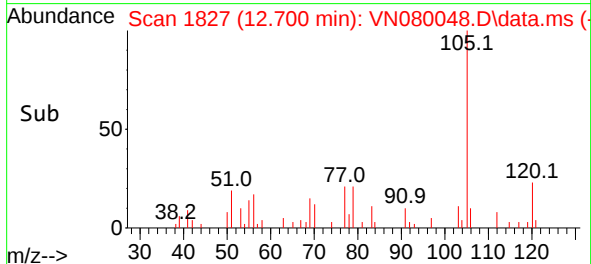
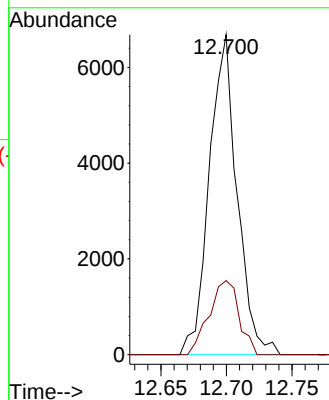
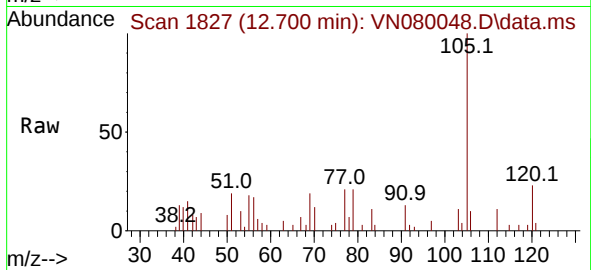
231108067-02-VOA

Tgt Ion:105 Resp: 9855

Ion Ratio Lower Upper

105 100

120 24.9 18.1 33.5



#76

1,3,5-Trimethylbenzene

Concen: 0.444 ug/l

RT: 13.182 min Scan# 1909

Delta R.T. 0.006 min

Lab File: VN080048.D

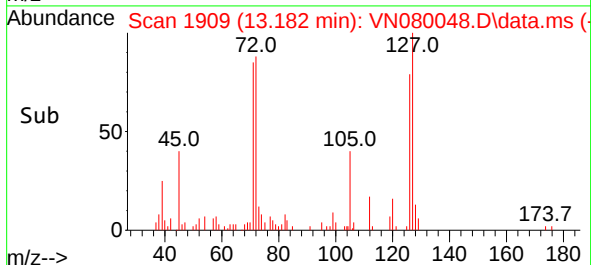
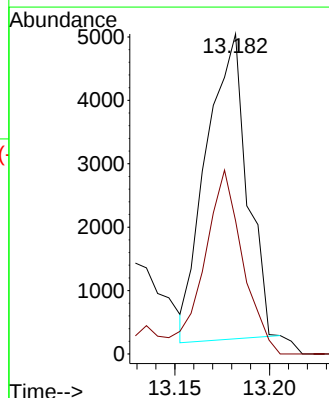
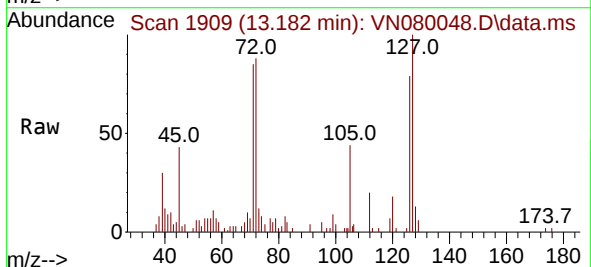
Acq: 10 Nov 2023 13:12

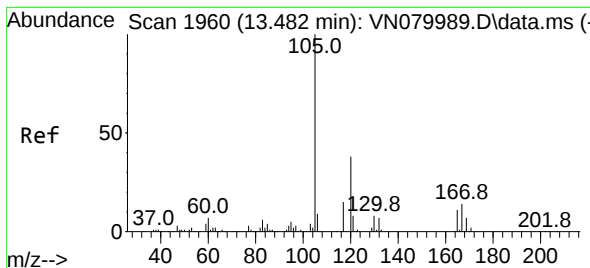
Tgt Ion:105 Resp: 7207

Ion Ratio Lower Upper

105 100

120 56.4 0.0 93.2





#80

1,2,4-Trimethylbenzene

Concen: 1.757 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.006 min

Lab File: VN080048.D

Acq: 10 Nov 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

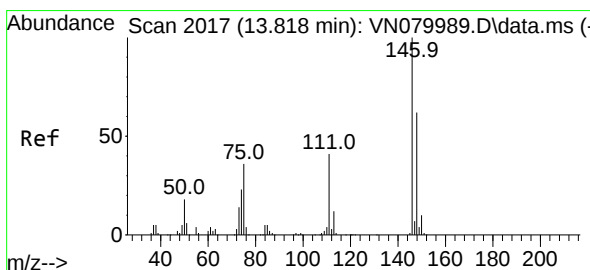
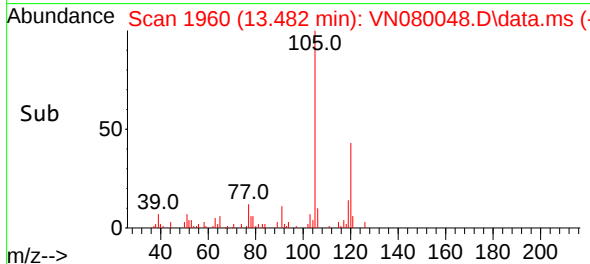
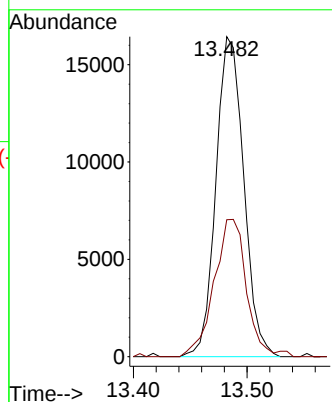
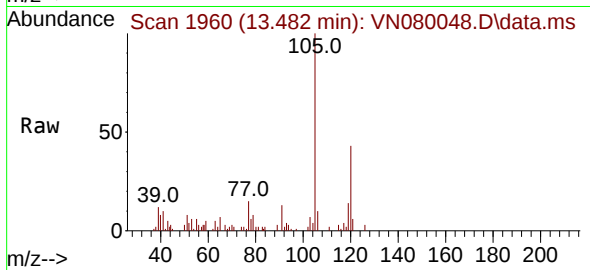
231108067-02-VOA

Tgt Ion:105 Resp: 27964

Ion Ratio Lower Upper

105 100

120 49.2 0.0 88.6



#84

1,4-Dichlorobenzene

Concen: 2.270 ug/l

RT: 13.817 min Scan# 1717

Delta R.T. 0.000 min

Lab File: VN080048.D

Acq: 10 Nov 2023 13:12

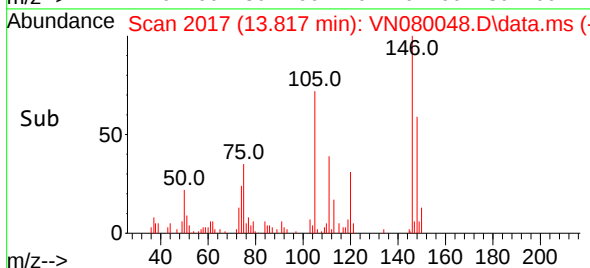
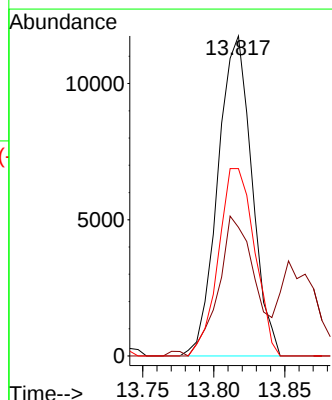
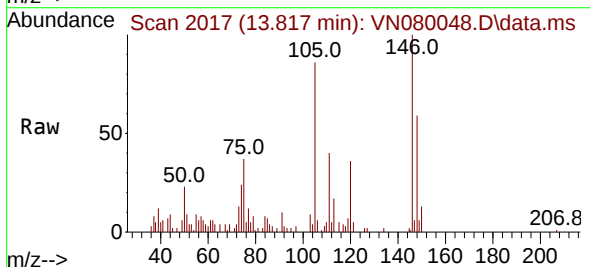
Tgt Ion:146 Resp: 19579

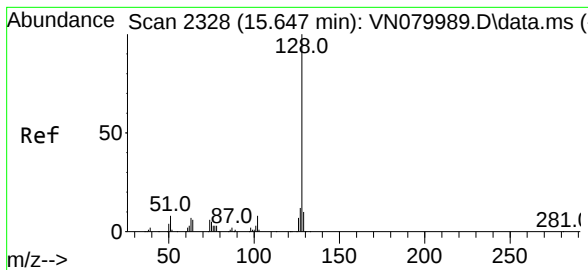
Ion Ratio Lower Upper

146 100

111 46.7 19.9 59.7

148 62.2 32.6 97.7





#91
Naphthalene
Concen: 12.084 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN080048.D
Acq: 10 Nov 2023 13:12

Instrument :
MSVOA_N
ClientSampleId :
231108067-02-VOA

Tgt Ion:128 Resp: 150841
Ion Ratio Lower Upper
128 100
127 13.6 10.9 16.3
129 11.1 8.6 12.8

