

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078818.D
 Acq On : 09 Aug 2023 14:19
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Aug 10 05:29:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

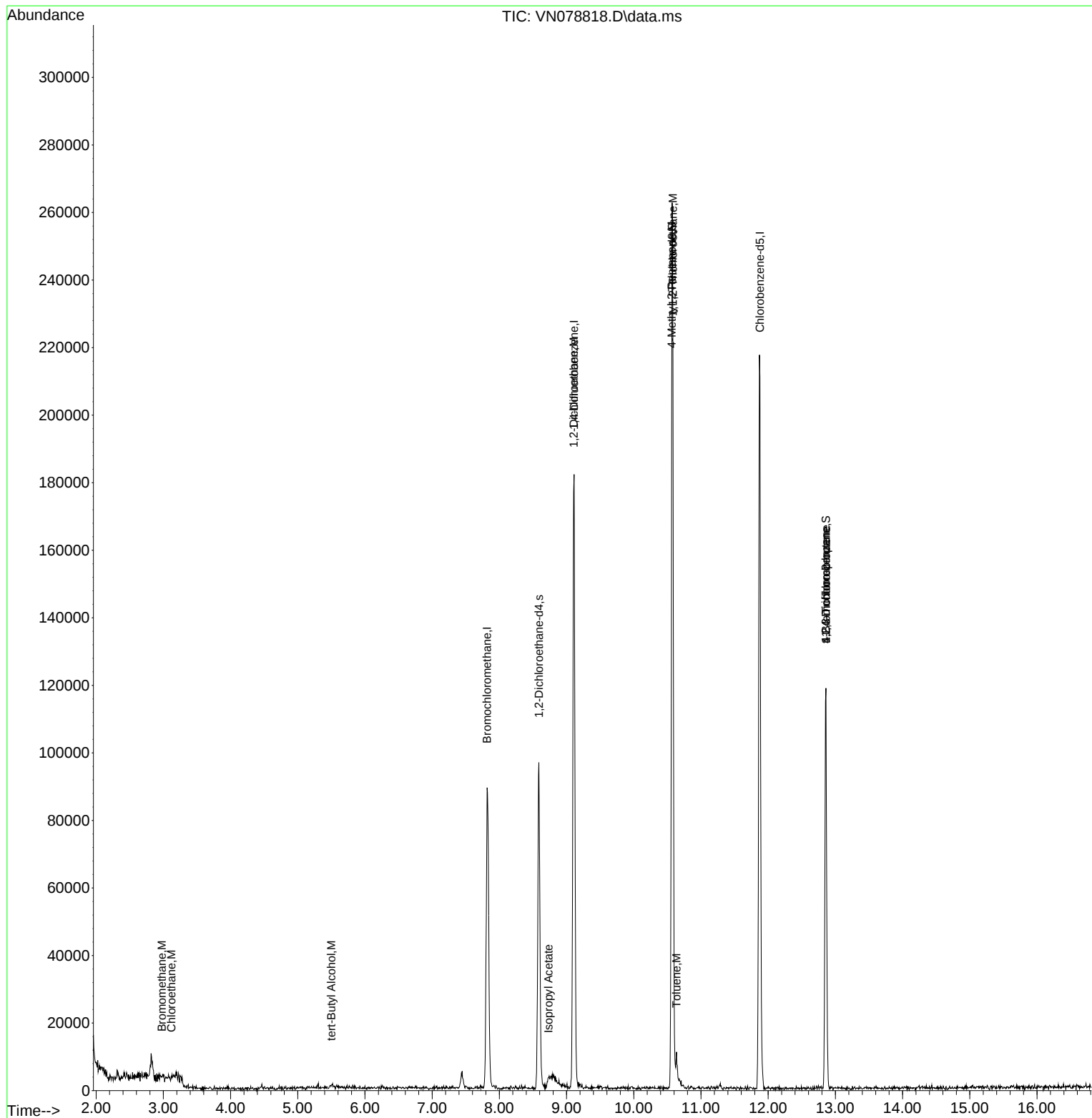
Internal Standards						
1) Bromochloromethane	7.818	128	30497	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	149627	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.876	117	127648	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	71470	29.109	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.033%		
60) 4-Bromofluorobenzene	12.859	95	38569	21.526	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	71.767%		
63) Toluene-d8	10.570	98	179122	28.636	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.467%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	490	0.283	ug/l	84
6) Chloroethane	3.118	64	822	0.486	ug/l	# 43
23) tert-Butyl Alcohol	5.500	59	421	1.165	ug/l	# 100
36) 1,2-Dichloroethane	9.106	62	6107	2.362	ug/l	# 75
44) Isopropyl Acetate	8.729	43	1779	0.401	ug/l	# 46
50) 1,1,2-Trichloroethane	10.582	97	6393	3.610	ug/l	# 1
58) 4-Methyl-2-Pentanone	10.565	43	1072	0.437	ug/l	# 1
62) Toluene	10.635	91	3888	0.517	ug/l	# 78
72) 1,2,3-Trichloropropane	12.859	75	21781	10.466	ug/l	# 1
77) t-1,4-Dichloro-2-butene	12.859	75	21781	33.342	ug/l	# 15

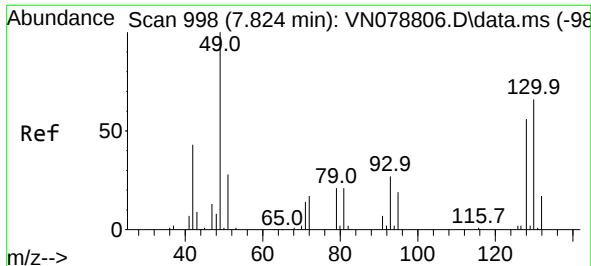
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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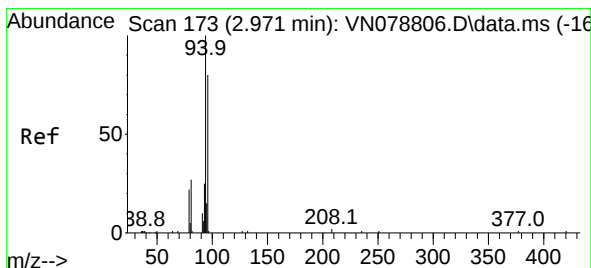
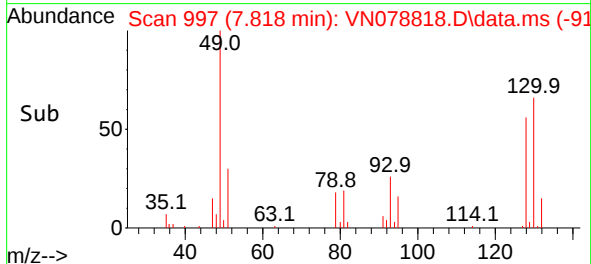
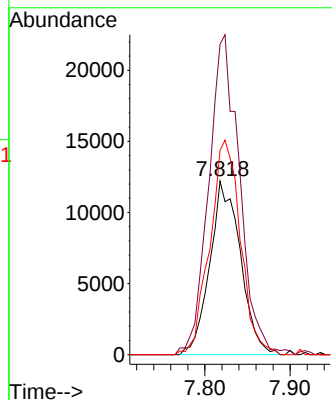
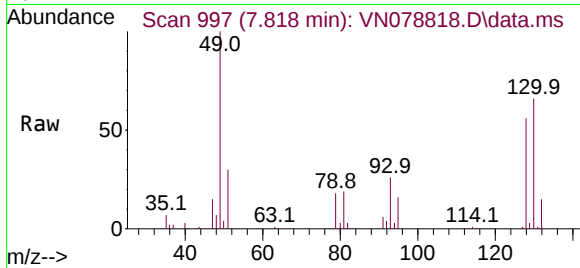




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

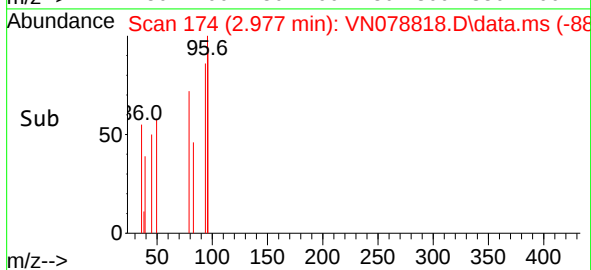
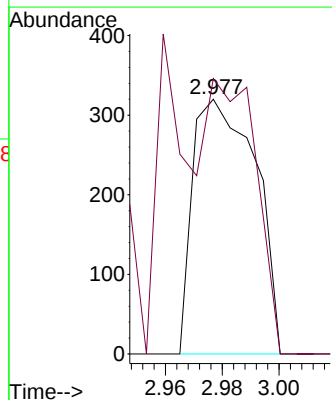
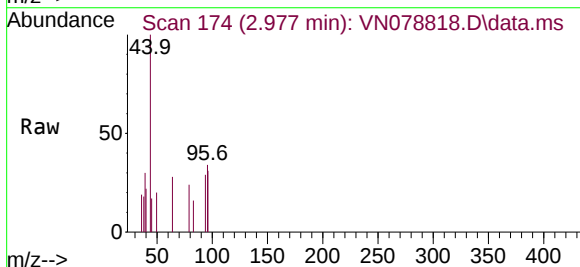
Instrument :
MSVOA_N
ClientSampleId :
IBLK

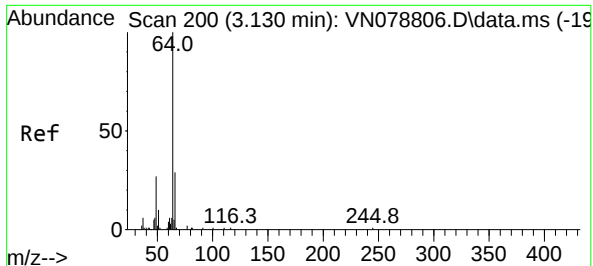
Tgt Ion:128 Resp: 30497
Ion Ratio Lower Upper
128 100
49 183.9 0.0 370.8
130 123.8 0.0 307.0



#5
Bromomethane
Concen: 0.283 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.006 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

Tgt Ion: 94 Resp: 490
Ion Ratio Lower Upper
94 100
96 108.1 73.9 110.9

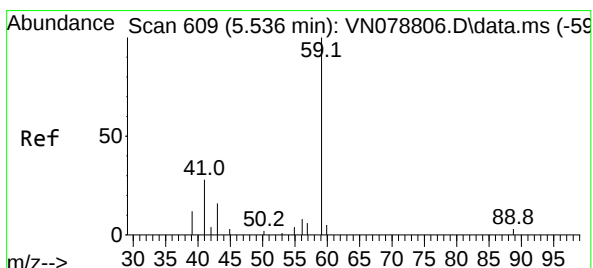
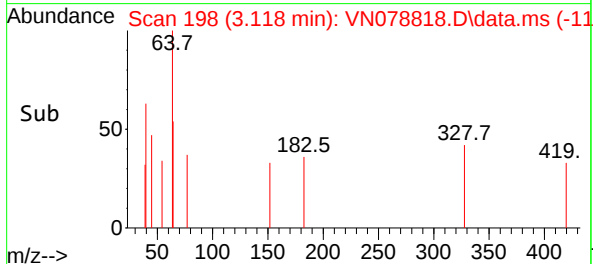
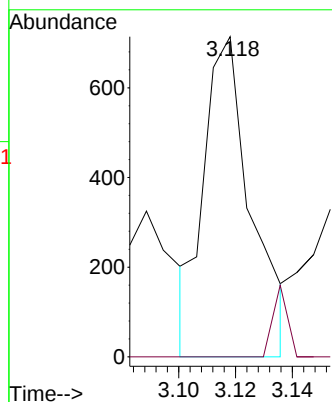
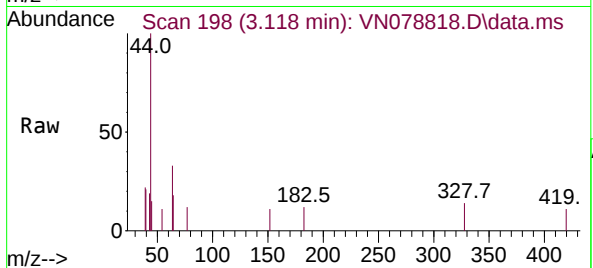




#6
Chloroethane
Concen: 0.486 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.012 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

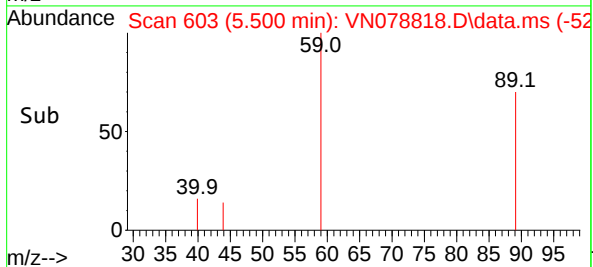
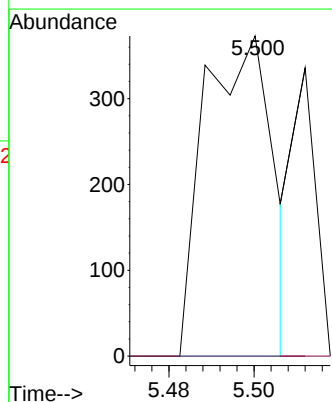
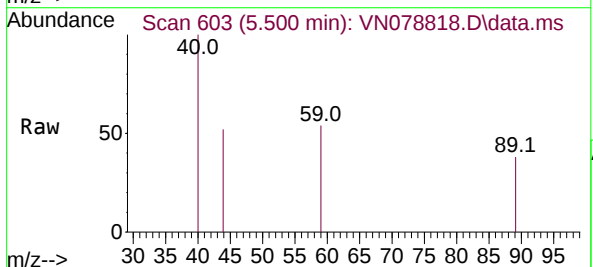
Instrument :
MSVOA_N
ClientSampleId :
IBLK

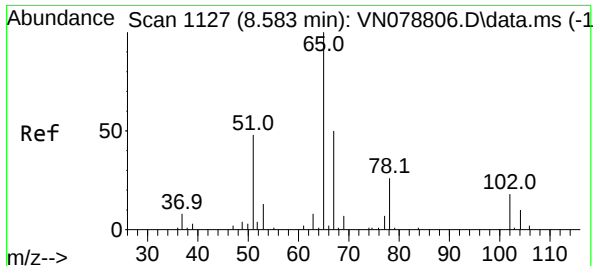
Tgt Ion: 64 Resp: 822
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#



#23
tert-Butyl Alcohol
Concen: 1.165 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.036 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

Tgt Ion: 59 Resp: 421
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

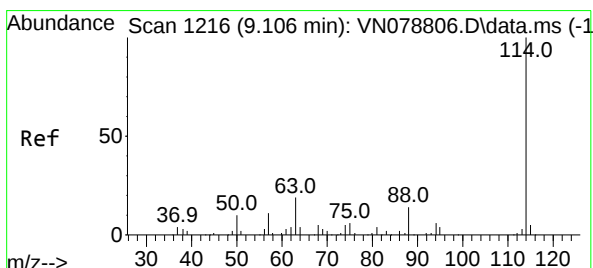
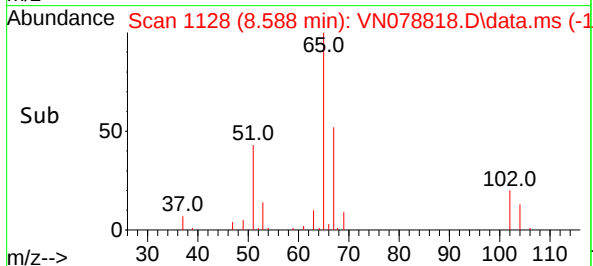
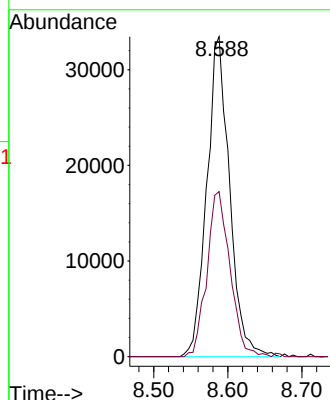
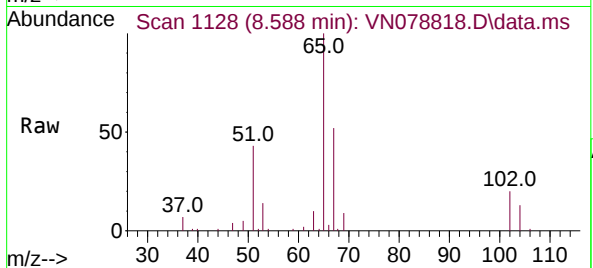




#27
1,2-Dichloroethane-d4
Concen: 29.109 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

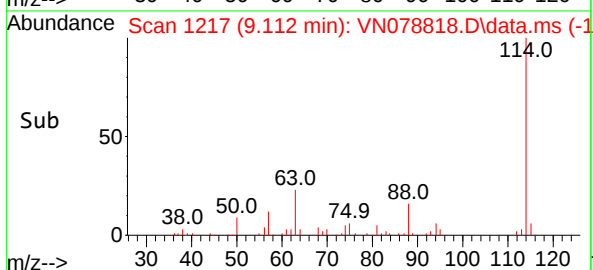
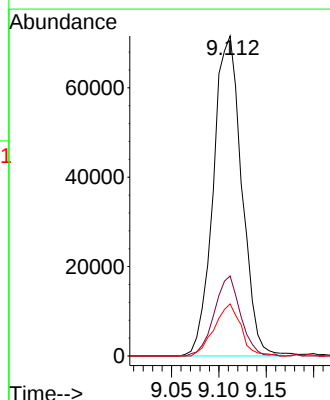
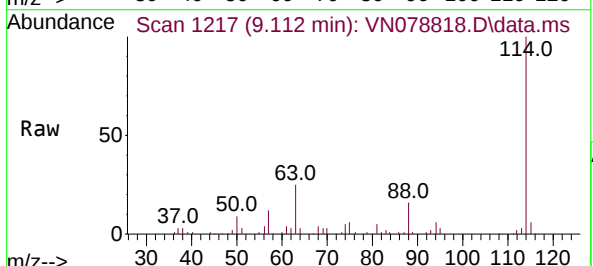
Instrument :
MSVOA_N
ClientSampleId :
IBLK

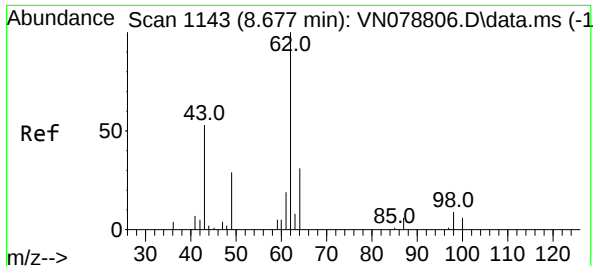
Tgt Ion: 65 Resp: 71470
Ion Ratio Lower Upper
65 100
67 52.1 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

Tgt Ion: 114 Resp: 149627
Ion Ratio Lower Upper
114 100
63 22.9 15.2 22.8#
88 15.2 12.5 18.7





#36

1,2-Dichloroethane

Concen: 2.362 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.429 min

Lab File: VN078818.D

Acq: 09 Aug 2023 14:19

Instrument :

MSVOA_N

ClientSampleId :

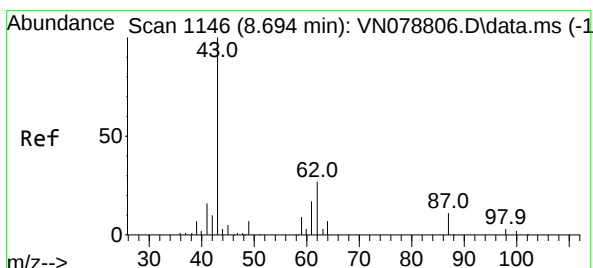
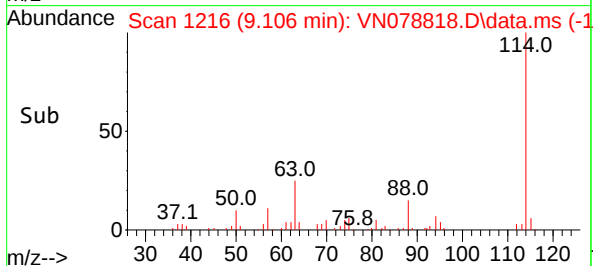
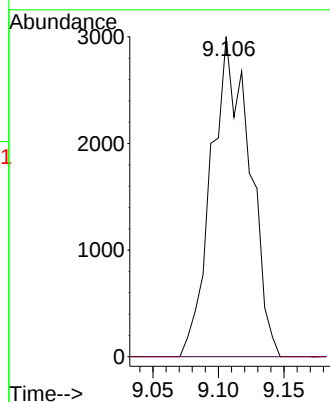
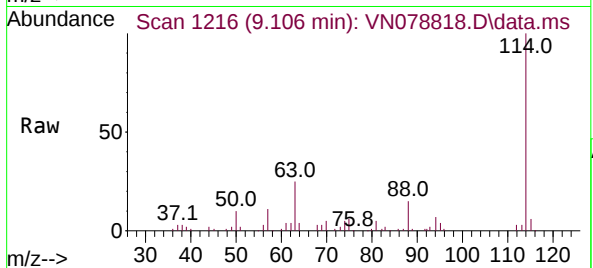
IBLK

Tgt Ion: 62 Resp: 6107

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#44

Isopropyl Acetate

Concen: 0.401 ug/l

RT: 8.729 min Scan# 1152

Delta R.T. 0.035 min

Lab File: VN078818.D

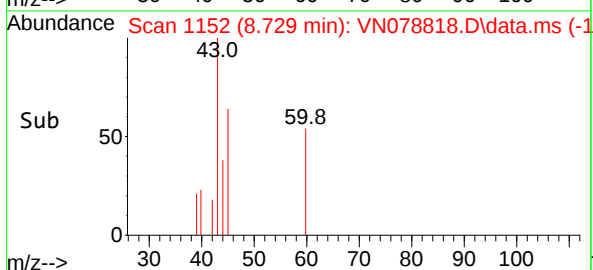
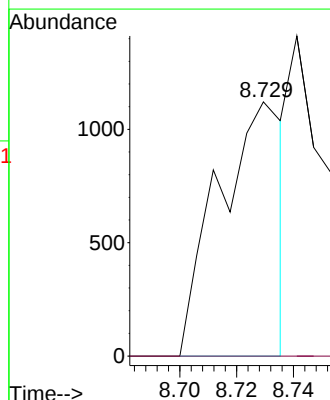
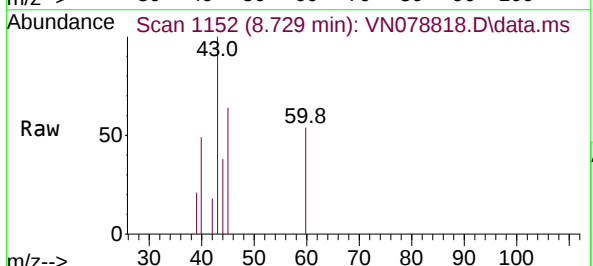
Acq: 09 Aug 2023 14:19

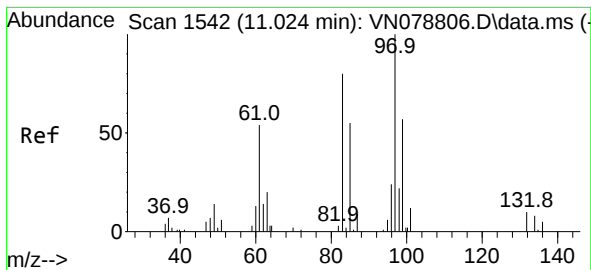
Tgt Ion: 43 Resp: 1779

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

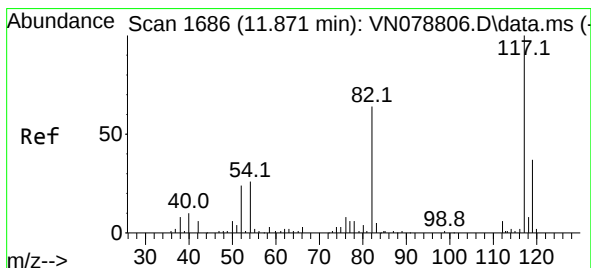
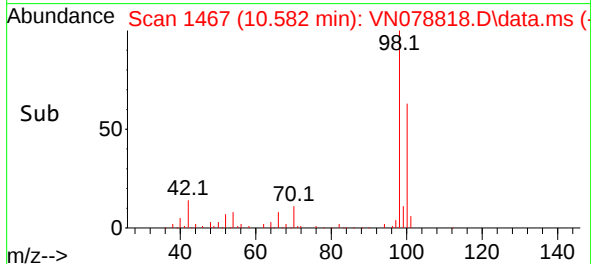
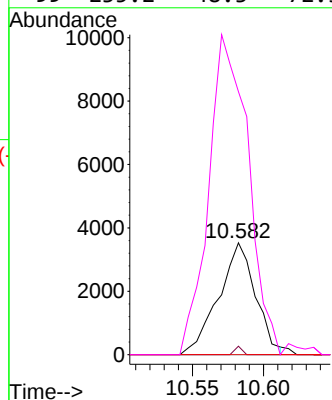
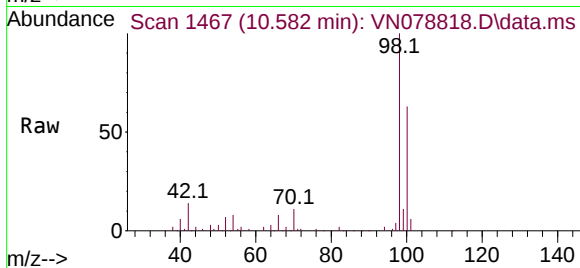




#50
1,1,2-Trichloroethane
Concen: 3.610 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.441 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

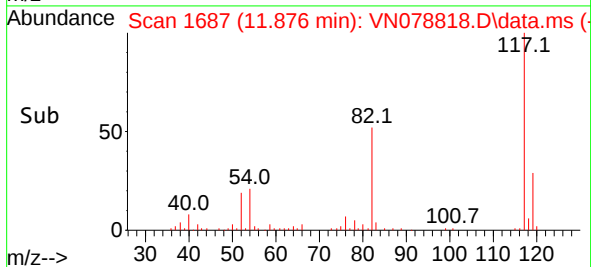
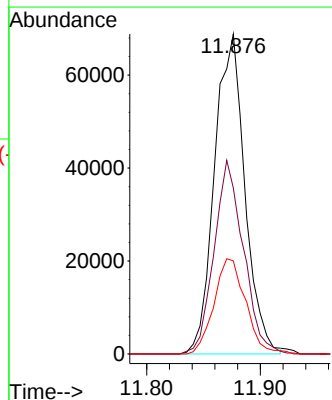
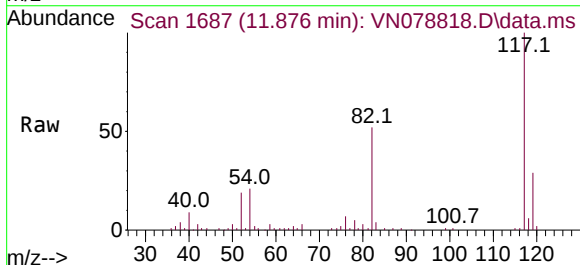
Instrument :
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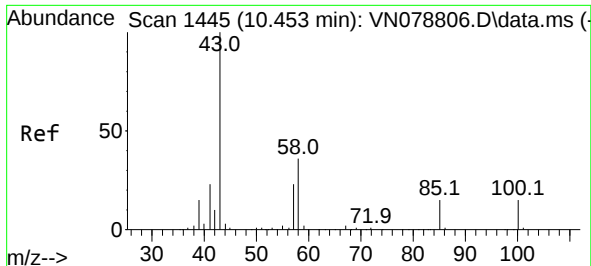
Tgt Ion: 97 Resp: 6393
Ion Ratio Lower Upper
97 100
83 7.5 66.8 100.2#
85 0.0 42.5 63.7#
99 235.2 48.3 72.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.876 min Scan# 1687
Delta R.T. 0.006 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

Tgt Ion: 117 Resp: 127648
Ion Ratio Lower Upper
117 100
82 58.6 43.9 65.9
119 31.0 26.2 39.4





#58

4-Methyl-2-Pentanone

Concen: 0.437 ug/l

RT: 10.565 min Scan# 1445

Delta R.T. 0.111 min

Lab File: VN078818.D

Acq: 09 Aug 2023 14:19

Instrument :

MSVOA_N

ClientSampleId :

IBLK

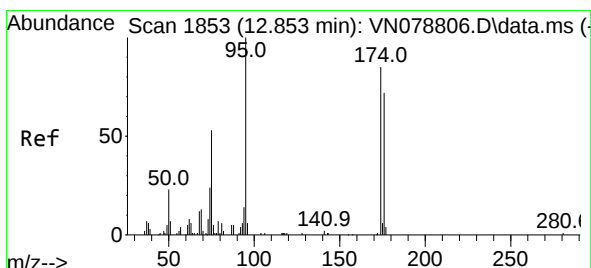
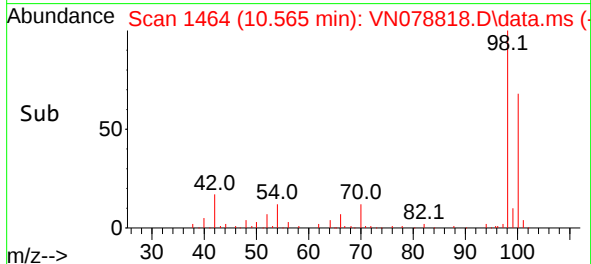
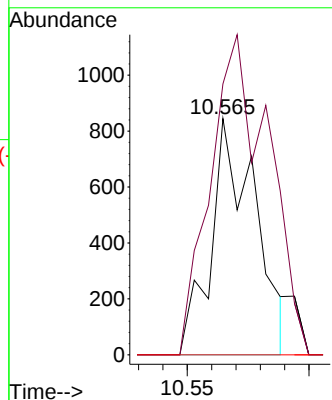
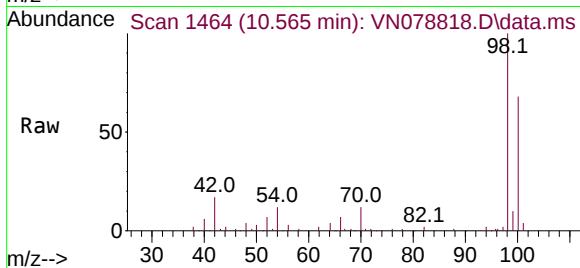
Tgt Ion: 43 Resp: 1072

Ion Ratio Lower Upper

43 100

58 122.1 32.6 48.8#

85 0.0 16.2 24.2#



#60

4-Bromofluorobenzene

Concen: 21.526 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VN078818.D

Acq: 09 Aug 2023 14:19

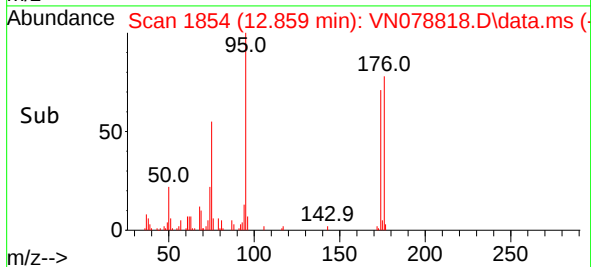
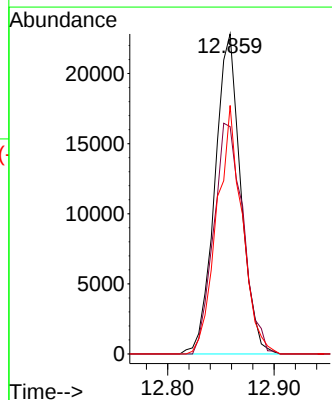
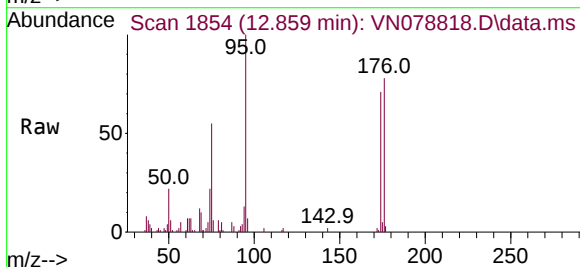
Tgt Ion: 95 Resp: 38569

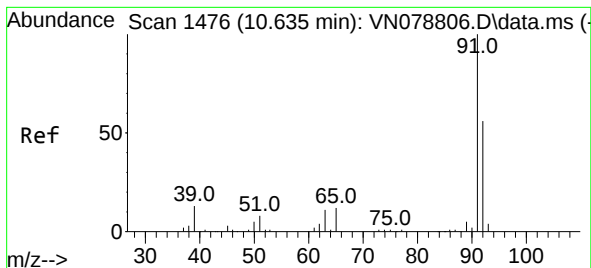
Ion Ratio Lower Upper

95 100

174 81.6 61.7 92.5

176 76.0 58.1 87.1





#62

Toluene

Concen: 0.517 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VN078818.D

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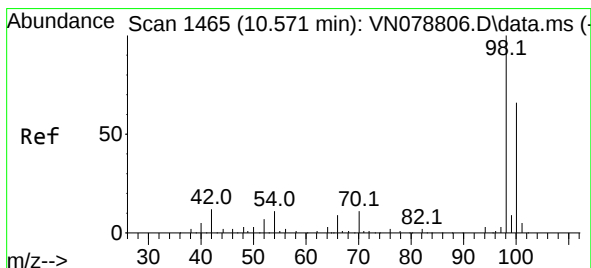
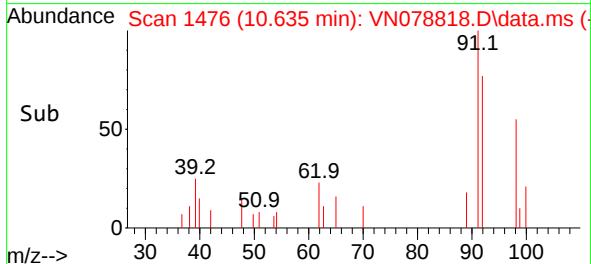
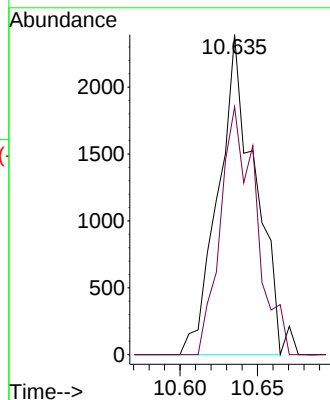
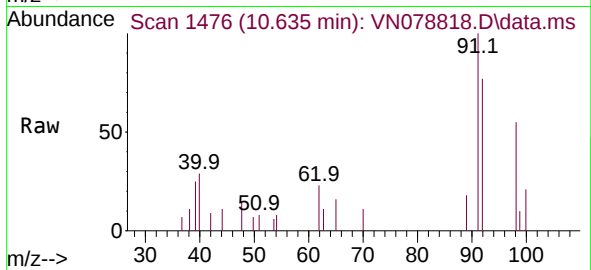
IBLK

Tgt Ion: 91 Resp: 3888

Ion Ratio Lower Upper

91 100

92 72.8 45.2 67.8#



#63

Toluene-d8

Concen: 28.636 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078818.D

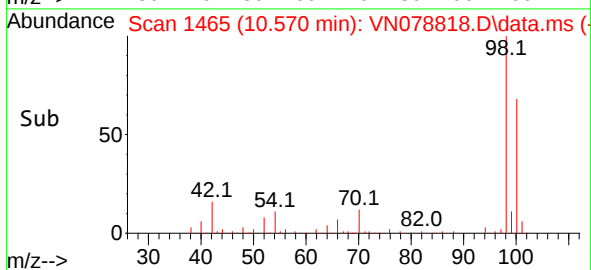
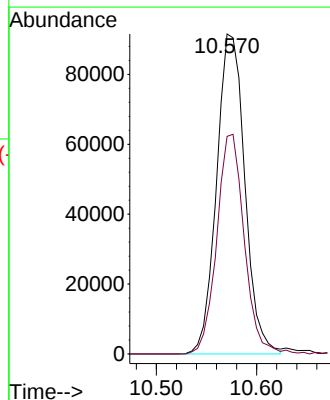
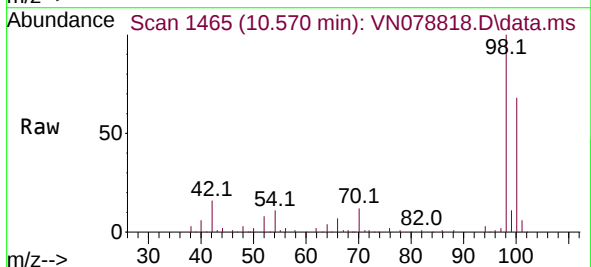
Acq: 09 Aug 2023 14:19

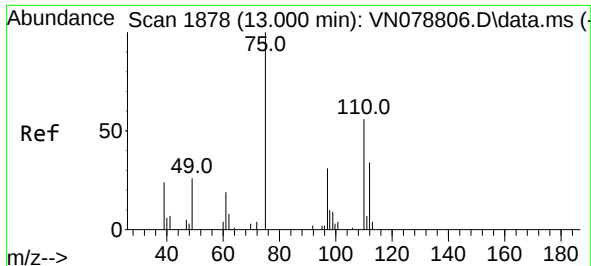
Tgt Ion: 98 Resp: 179122

Ion Ratio Lower Upper

98 100

100 66.7 49.7 74.5

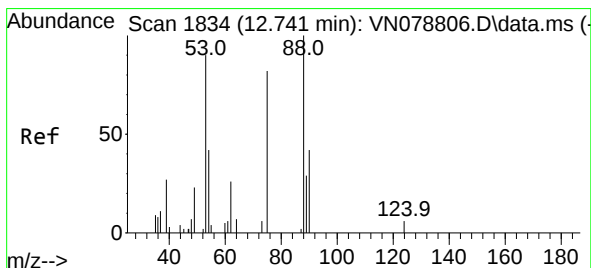
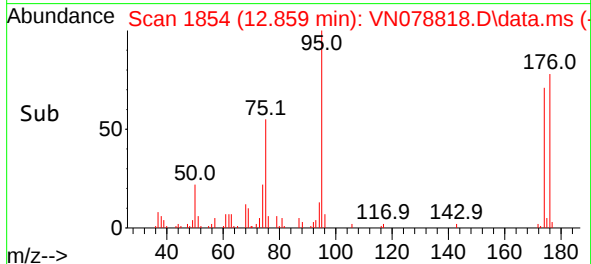
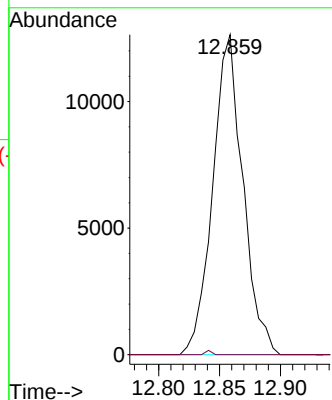
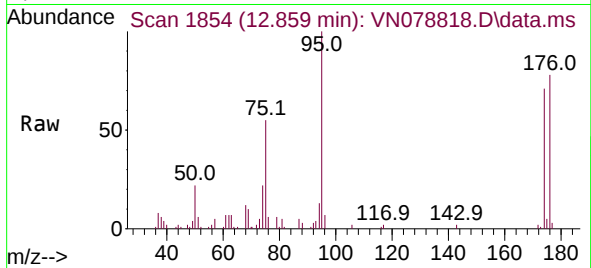




#72
1,2,3-Trichloropropane
Concen: 10.466 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion: 75 Resp: 21781
Ion Ratio Lower Upper
75 100
77 0.0 0.0 387.4



#77
t-1,4-Dichloro-2-butene
Concen: 33.342 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.117 min
Lab File: VN078818.D
Acq: 09 Aug 2023 14:19

Tgt Ion: 75 Resp: 21781
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#

