

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078821.D
 Acq On : 09 Aug 2023 15:32
 Operator : JC\MD
 Sample : 03937-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MANHOLE

Quant Time: Aug 10 05:30:11 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)

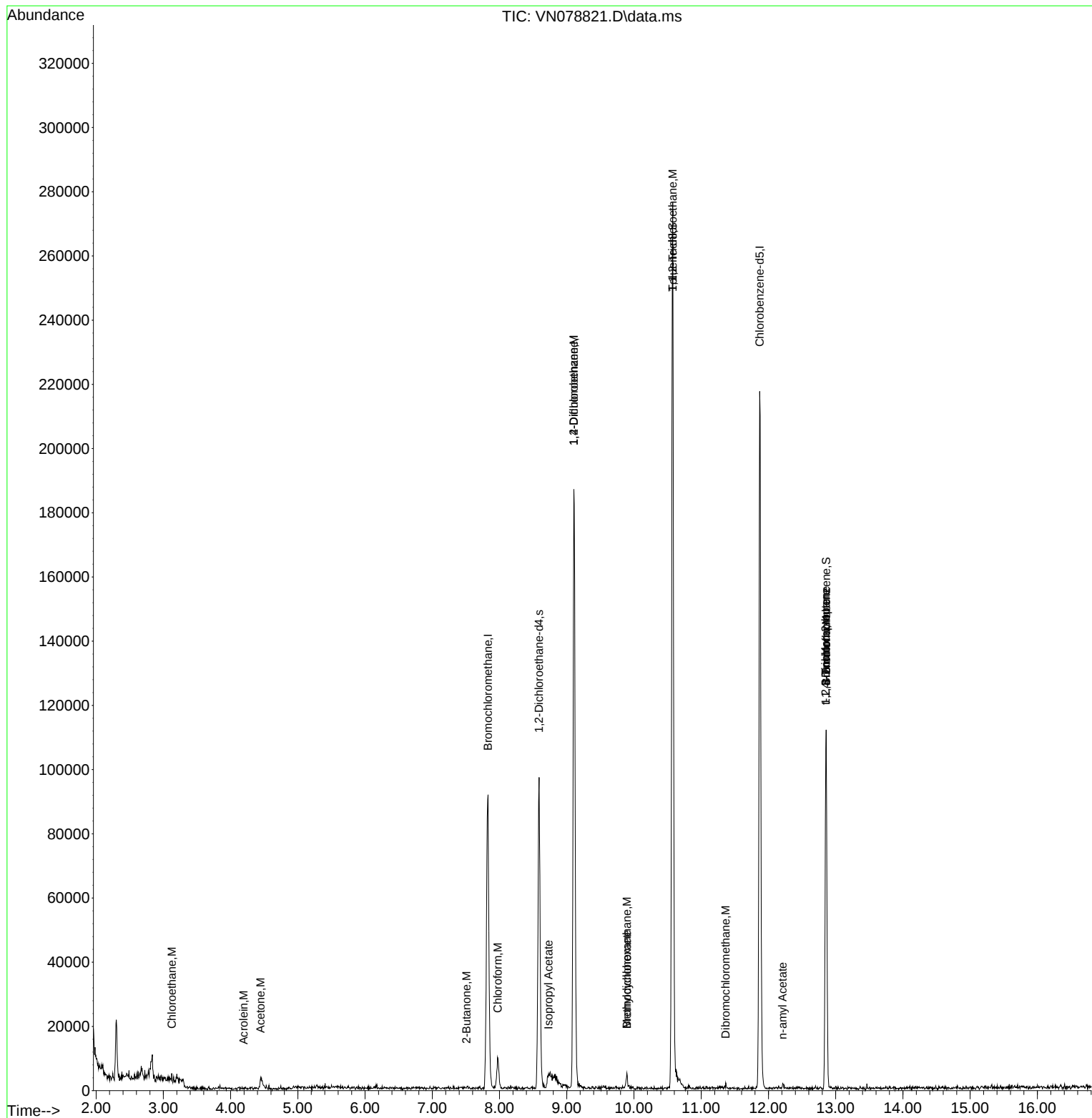
Internal Standards						
1) Bromochloromethane	7.830	128	29048	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	152082	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	124344	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	71569	30.603	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.000%
60) 4-Bromofluorobenzene	12.859	95	39788	22.796	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.000%
63) Toluene-d8	10.576	98	188526	30.940	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.133%
Target Compounds						
					Qvalue	
6) Chloroethane	3.124	64	385	0.239	ug/l #	71
13) Acrolein	4.195	56	111	0.298	ug/l #	13
15) Acetone	4.447	58	566	2.371	ug/l #	49
25) Chloroform	7.971	83	8411	2.340	ug/l	94
30) 2-Butanone	7.506	43	458	0.378	ug/l #	52
36) 1,2-Dichloroethane	9.106	62	6629	2.522	ug/l #	75
38) Methylcyclohexane	9.894	83	2595	1.109	ug/l #	22
41) Bromodichloromethane	9.894	83	2595	0.972	ug/l #	97
44) Isopropyl Acetate	8.730	43	1202	0.266	ug/l #	46
47) n-amyl Acetate	12.212	43	843	0.267	ug/l #	48
50) 1,1,2-Trichloroethane	10.576	97	4343	2.413	ug/l #	1
53) Dibromochloromethane	11.365	129	712	0.379	ug/l	81
56) Bromoform	12.859	173	667	0.567	ug/l #	1
72) 1,2,3-Trichloropropane	12.853	75	20422	10.073	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	20422	32.092	ug/l #	15

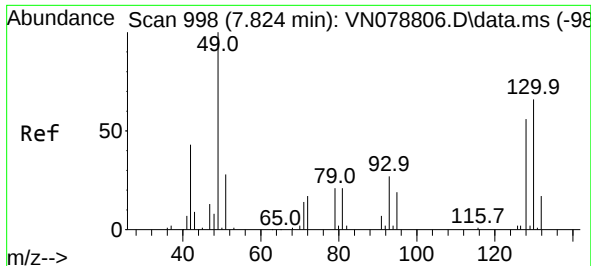
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
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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
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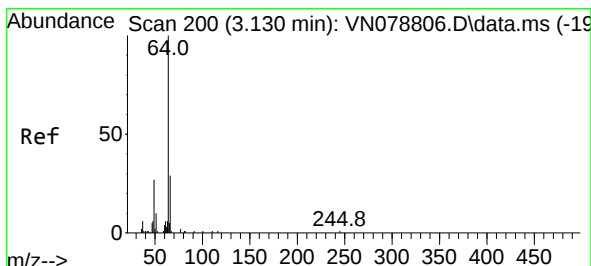
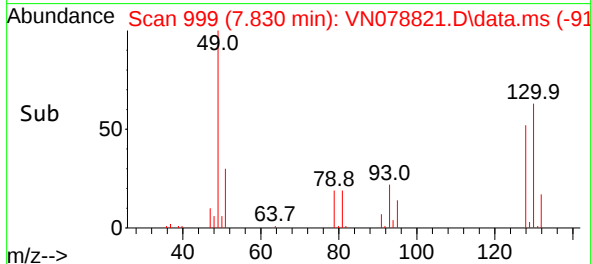
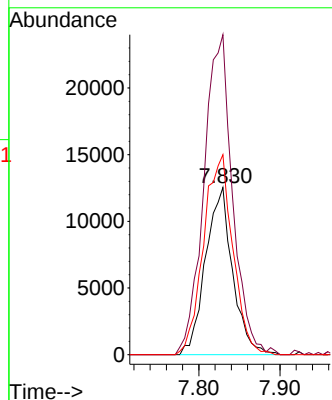
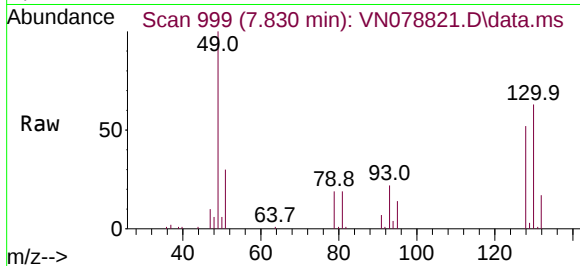




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.830 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

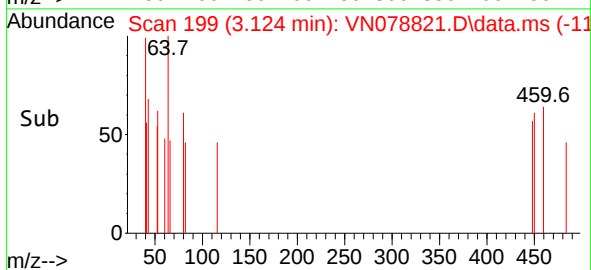
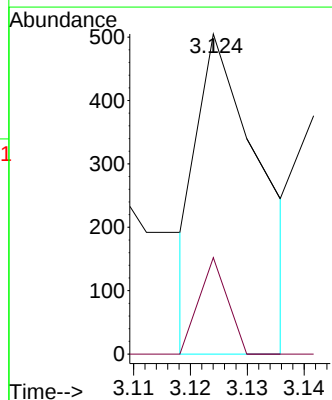
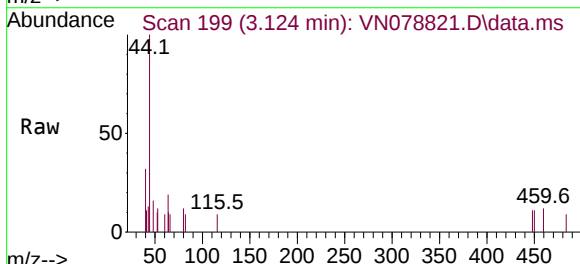
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

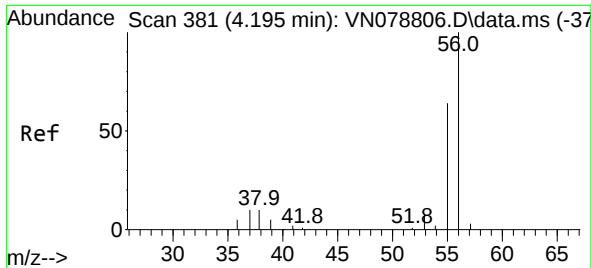
Tgt Ion:128 Resp: 29048
Ion Ratio Lower Upper
128 100
49 202.0 0.0 370.8
130 129.6 0.0 307.0



#6
Chloroethane
Concen: 0.239 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.006 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

Tgt Ion: 64 Resp: 385
Ion Ratio Lower Upper
64 100
66 48.6 25.7 38.5#

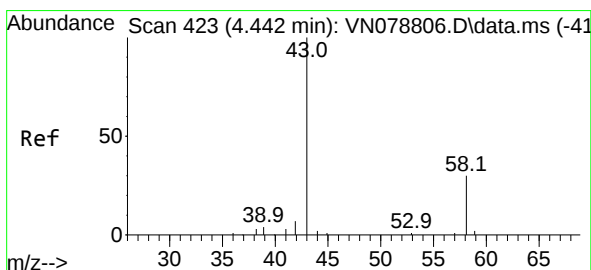
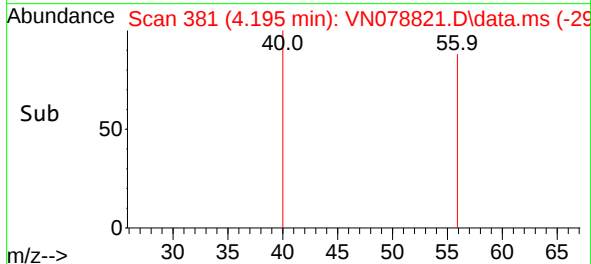
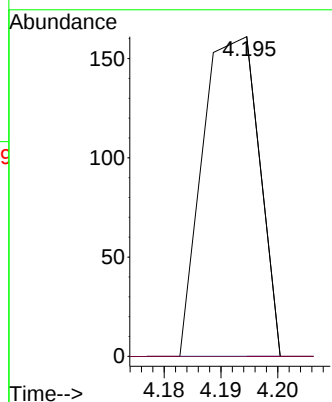
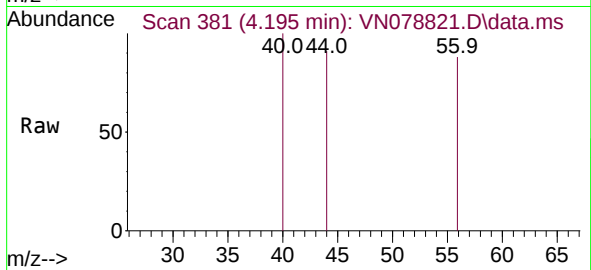




#13
Acrolein
Concen: 0.298 ug/l
RT: 4.195 min Scan# 381
Delta R.T. -0.000 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

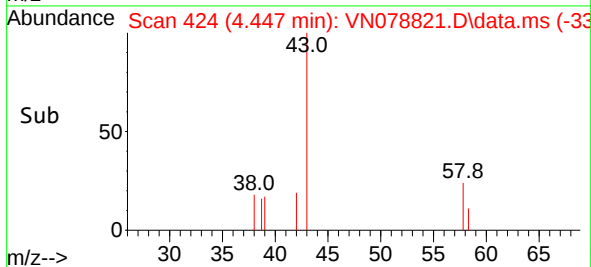
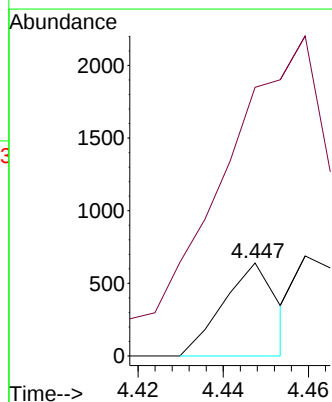
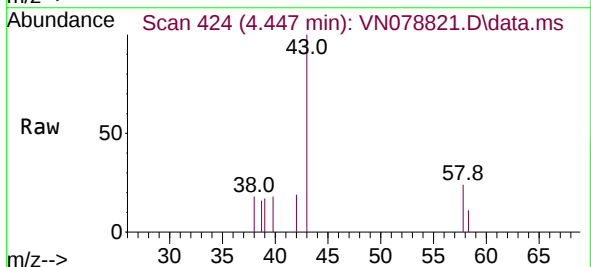
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

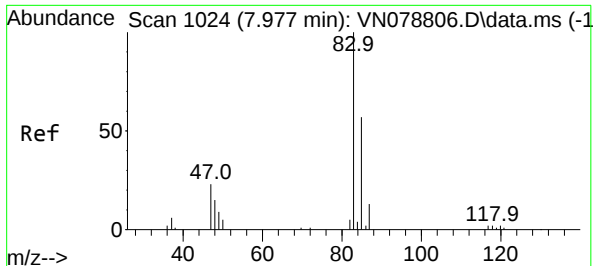
Tgt Ion: 56 Resp: 111
Ion Ratio Lower Upper
56 100
55 0.0 59.0 88.4#



#15
Acetone
Concen: 2.371 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.006 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

Tgt Ion: 58 Resp: 566
Ion Ratio Lower Upper
58 100
43 188.4 227.5 341.3#

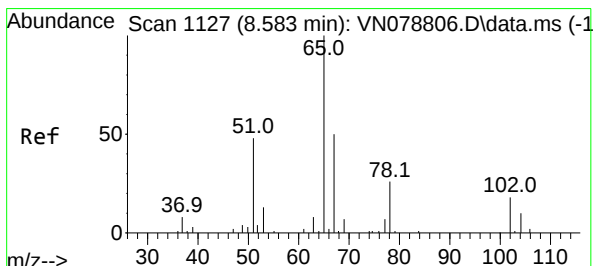
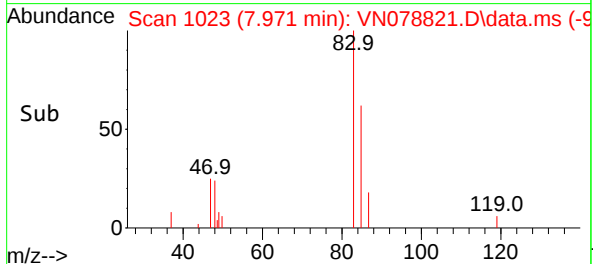
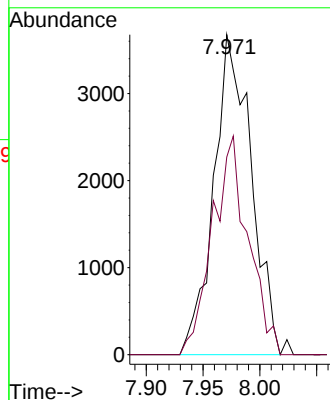
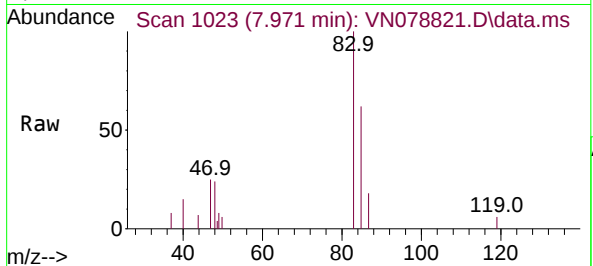




#25
Chloroform
Concen: 2.340 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

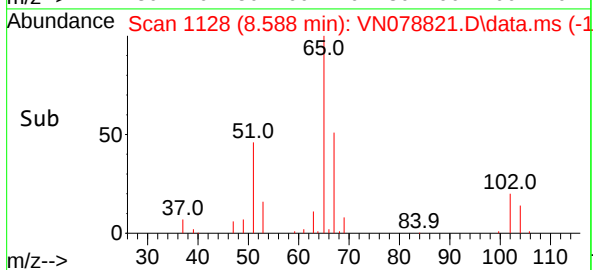
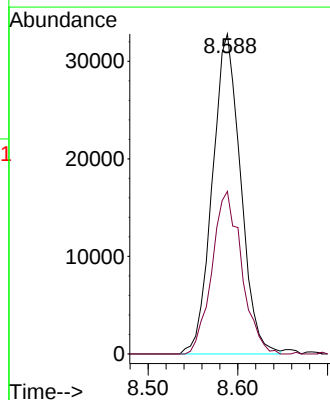
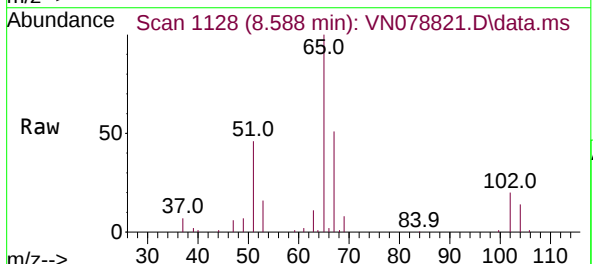
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

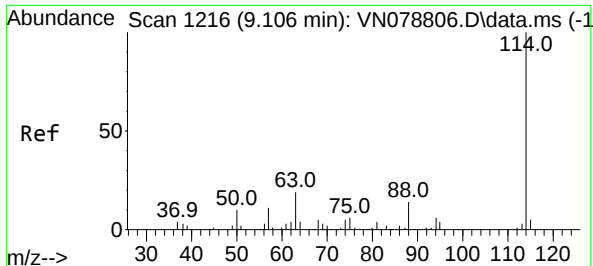
Tgt Ion: 83 Resp: 8411
Ion Ratio Lower Upper
83 100
85 61.8 53.4 80.0



#27
1,2-Dichloroethane-d4
Concen: 30.603 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

Tgt Ion: 65 Resp: 71569
Ion Ratio Lower Upper
65 100
67 53.3 42.9 64.3

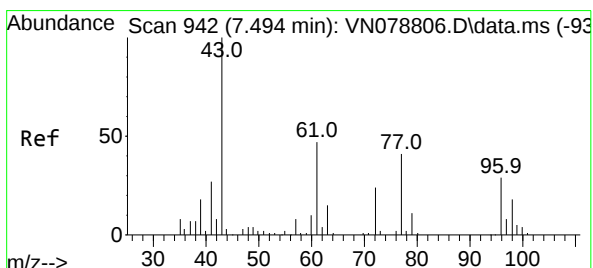
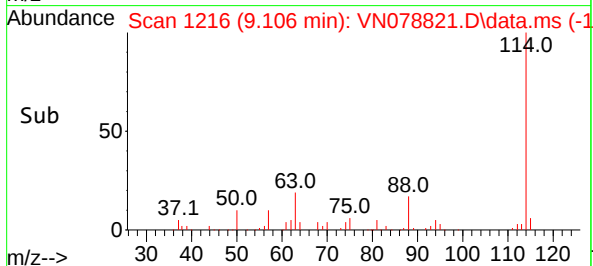
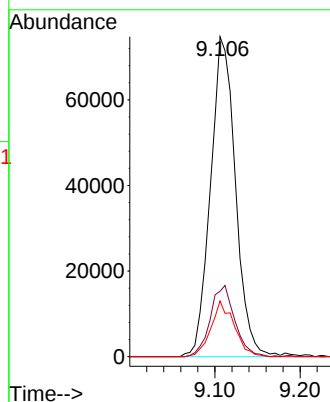
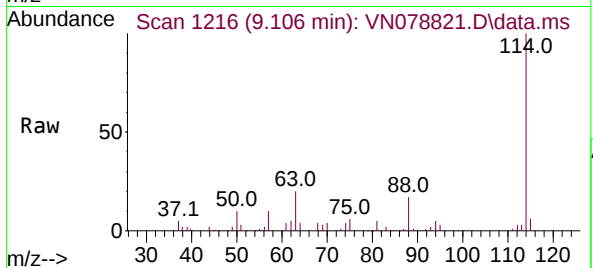




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. -0.000 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

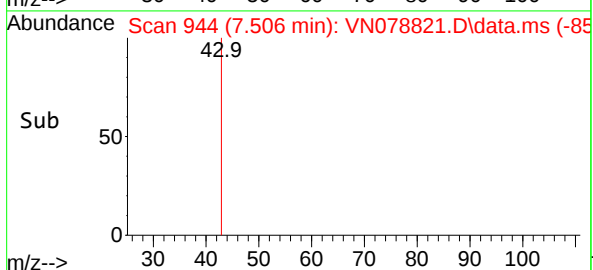
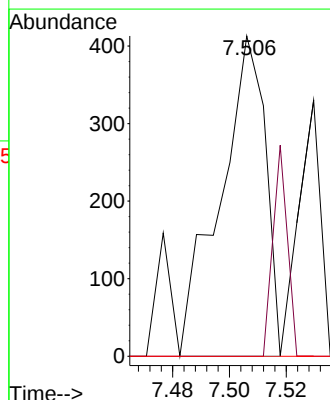
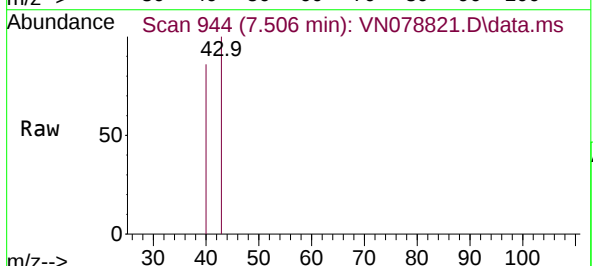
Instrument :
MSVOA_N
ClientSampleId :
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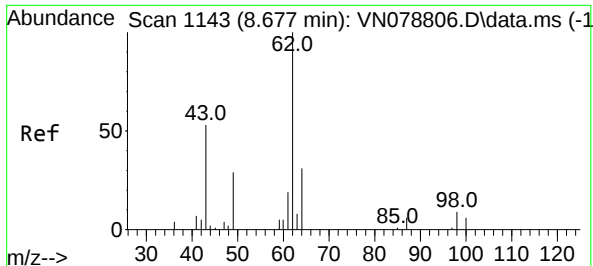
Tgt Ion:114 Resp: 152082
Ion Ratio Lower Upper
114 100
63 21.9 15.2 22.8
88 16.2 12.5 18.7



#30
2-Butanone
Concen: 0.378 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

Tgt Ion: 43 Resp: 458
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 0.0 23.8 35.6#





#36

1,2-Dichloroethane

Concen: 2.522 ug/l

RT: 9.106 min Scan# 1143

Delta R.T. 0.429 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

Instrument :

MSVOA_N

ClientSampleId :

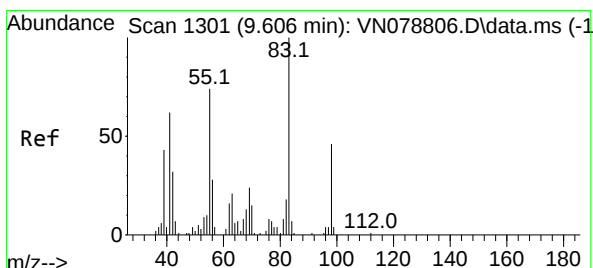
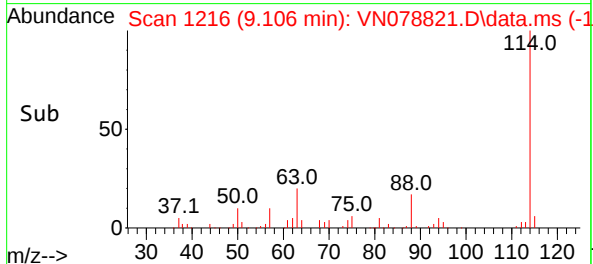
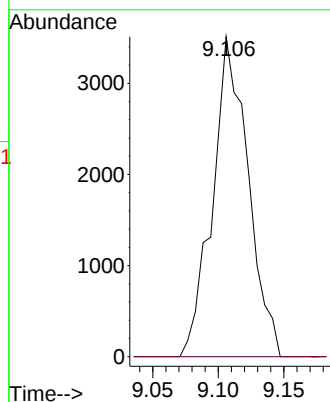
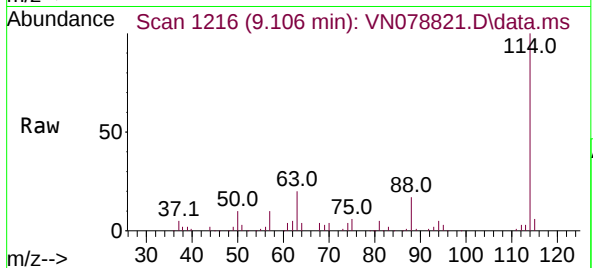
MANHOLE

Tgt Ion: 62 Resp: 6629

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#38

Methylcyclohexane

Concen: 1.109 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.288 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

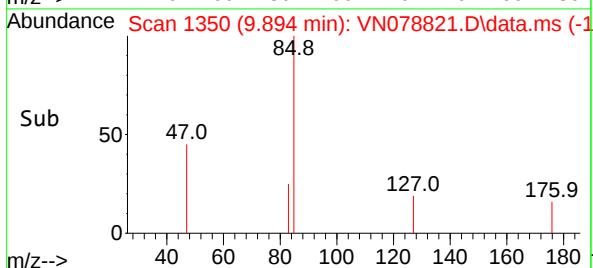
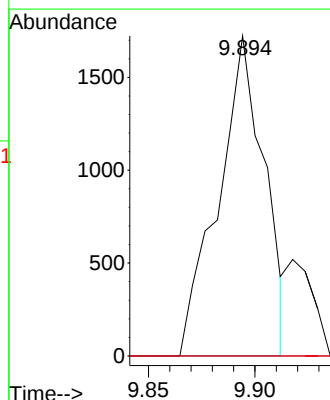
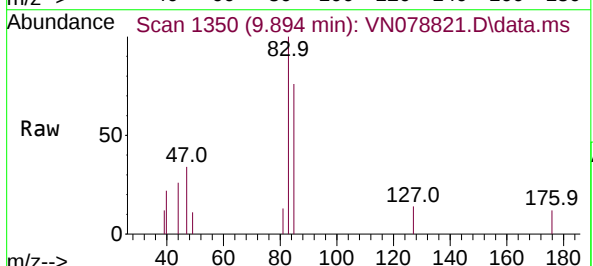
Tgt Ion: 83 Resp: 2595

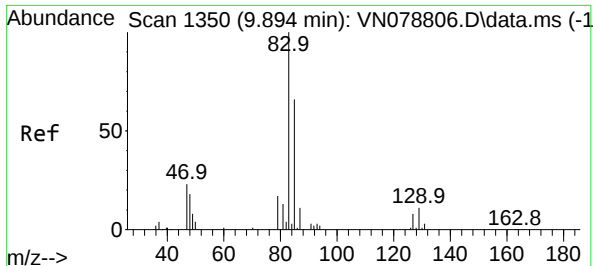
Ion Ratio Lower Upper

83 100

55 0.0 34.0 102.0#

98 0.0 23.0 69.0#

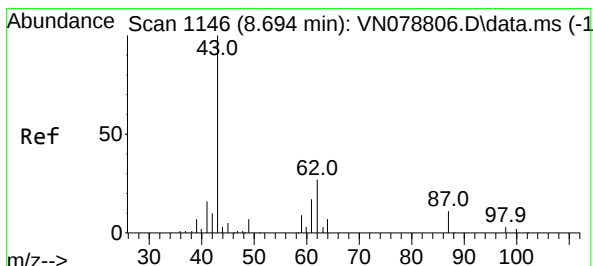
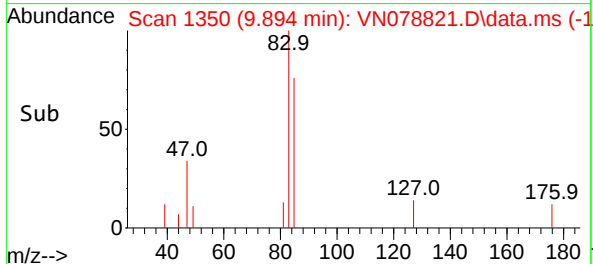
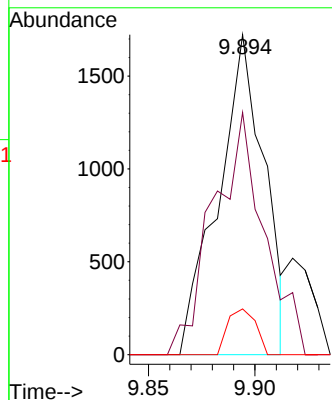
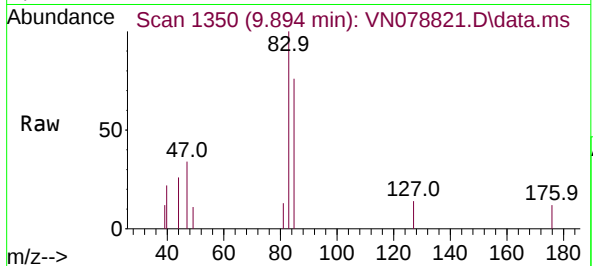




#41
Bromodichloromethane
Concen: 0.972 ug/l
RT: 9.894 min Scan# 1152
Delta R.T. -0.000 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

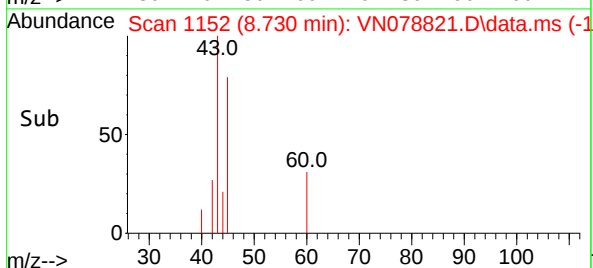
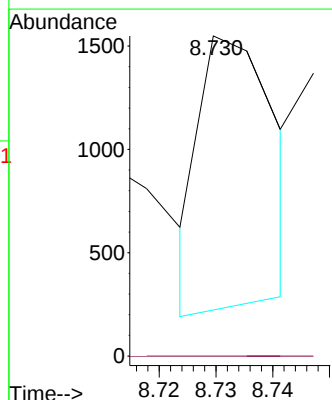
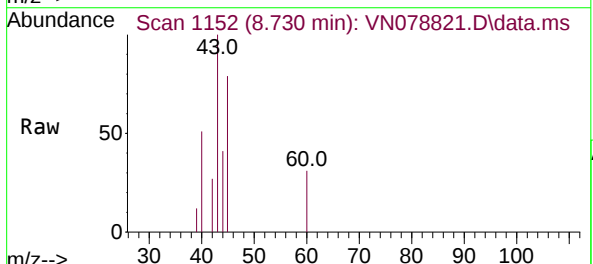
Instrument :
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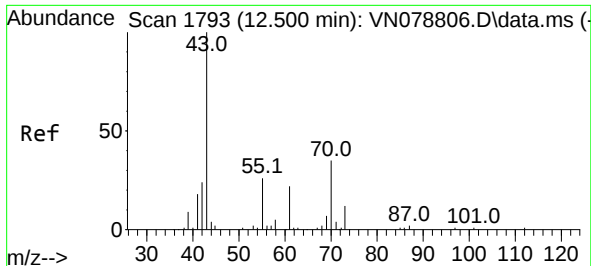
Tgt Ion: 83 Resp: 2595
Ion Ratio Lower Upper
83 100
85 66.4 54.1 81.1
127 14.3 7.8 11.6#



#44
Isopropyl Acetate
Concen: 0.266 ug/l
RT: 8.730 min Scan# 1152
Delta R.T. 0.035 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

Tgt Ion: 43 Resp: 1202
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#





#47

n-amy1 Acetate

Concen: 0.267 ug/l

RT: 12.212 min Scan# 11

Delta R.T. -0.288 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

Instrument :

MSVOA_N

ClientSampleId :

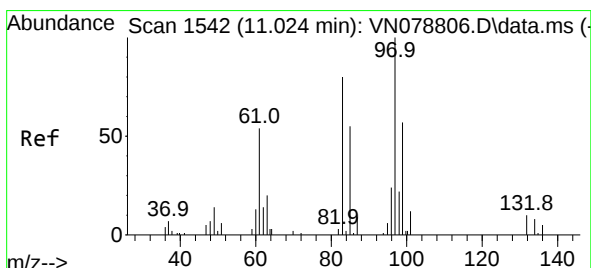
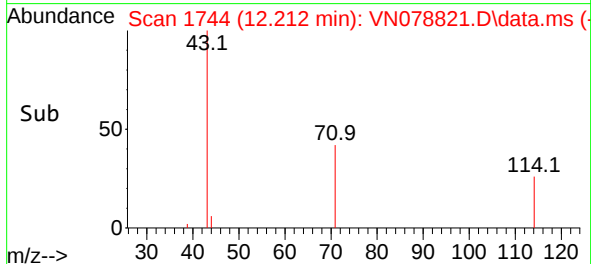
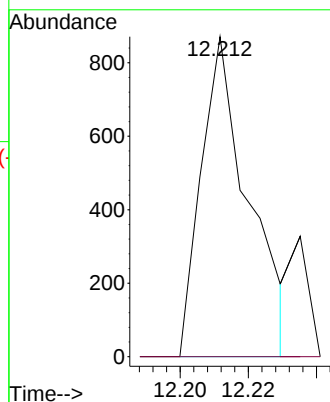
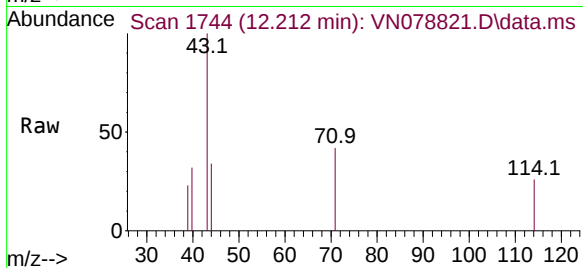
MANHOLE

Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

43 100

55 0.0 21.5 32.3#



#50

1,1,2-Trichloroethane

Concen: 2.413 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.447 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

Tgt Ion: 97 Resp: 4343

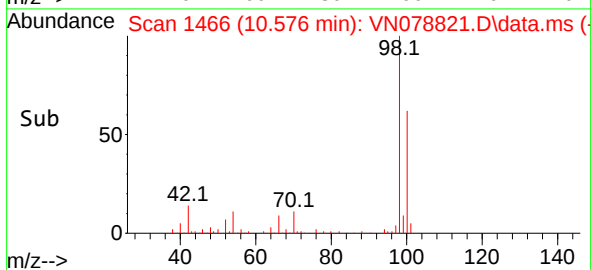
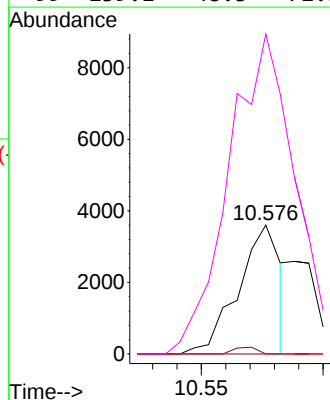
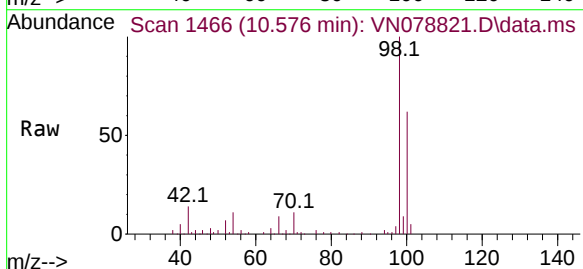
Ion Ratio Lower Upper

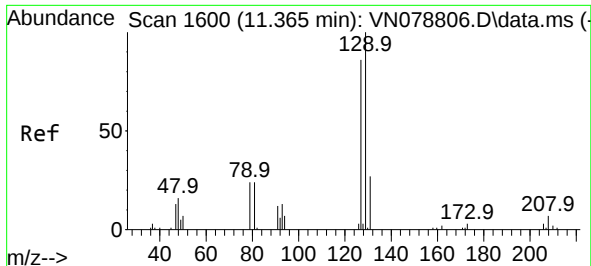
97 100

83 0.0 66.8 100.2#

85 0.0 42.5 63.7#

99 239.1 48.3 72.5#

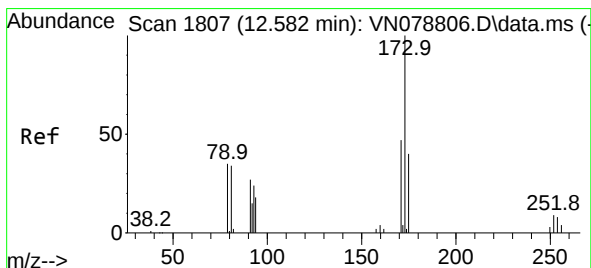
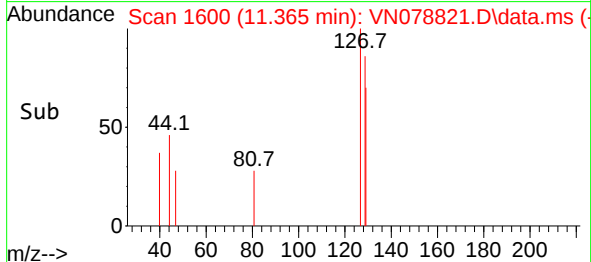
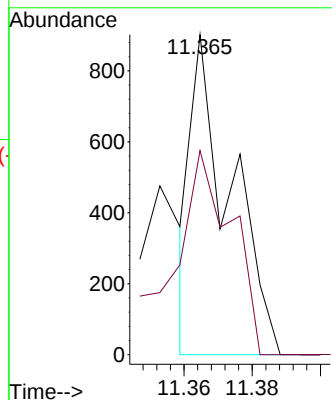
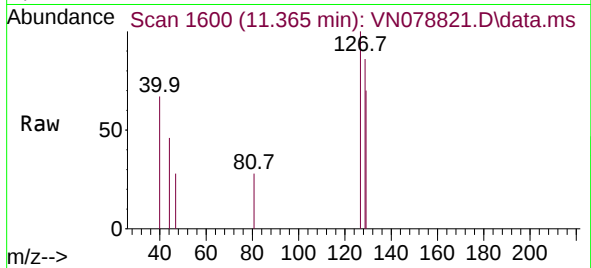




#53
Dibromochloromethane
Concen: 0.379 ug/l
RT: 11.365 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

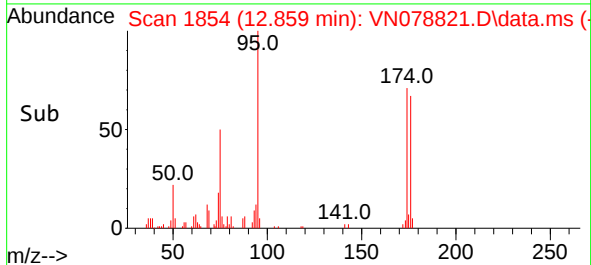
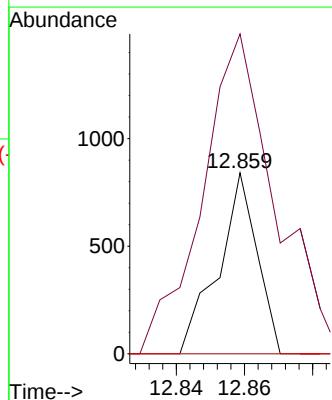
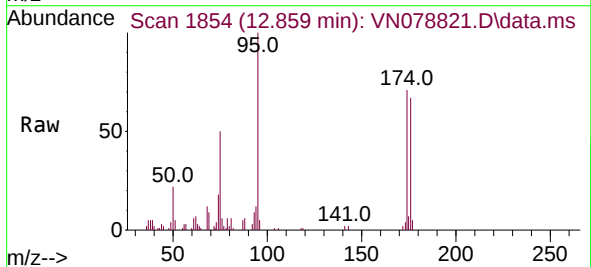
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

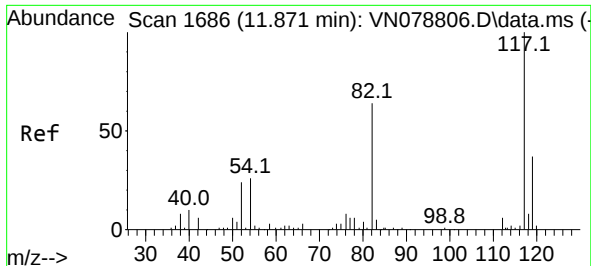
Tgt Ion:129 Resp: 712
Ion Ratio Lower Upper
129 100
127 95.1 39.4 118.1



#56
Bromoform
Concen: 0.567 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.276 min
Lab File: VN078821.D
Acq: 09 Aug 2023 15:32

Tgt Ion:173 Resp: 667
Ion Ratio Lower Upper
173 100
175 330.9 40.7 61.1#
254 0.0 6.5 9.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 117

Delta R.T. -0.000 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

Instrument :

MSVOA_N

ClientSampleId :

MANHOLE

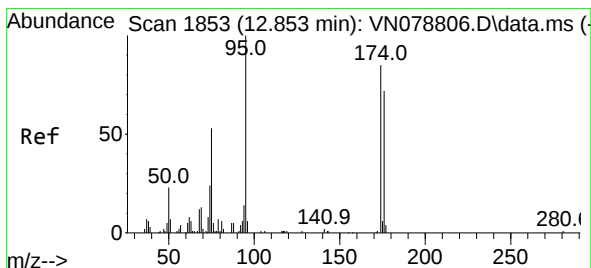
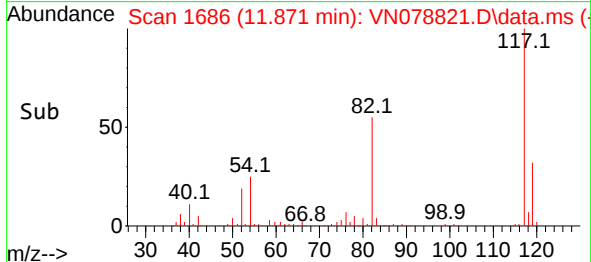
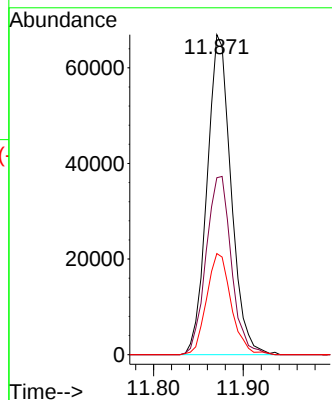
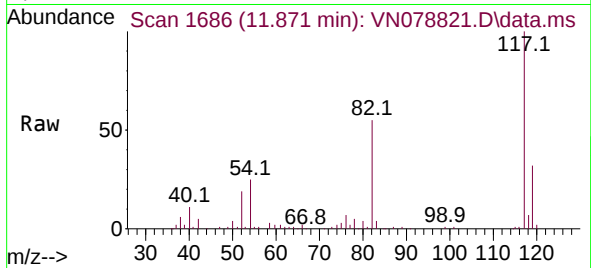
Tgt Ion:117 Resp: 124344

Ion Ratio Lower Upper

117 100

82 58.8 43.9 65.9

119 32.0 26.2 39.4



#60

4-Bromofluorobenzene

Concen: 22.796 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

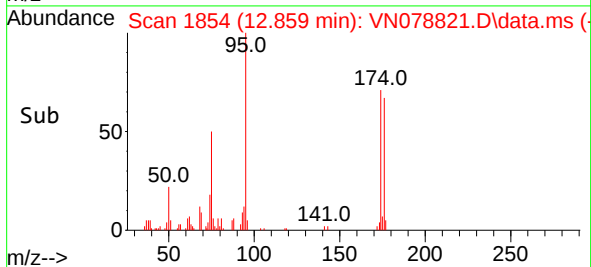
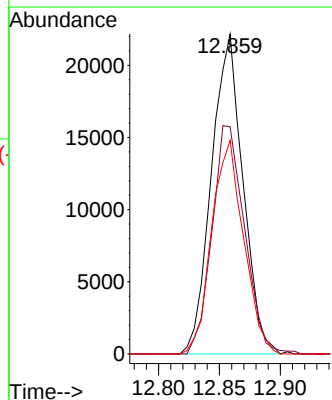
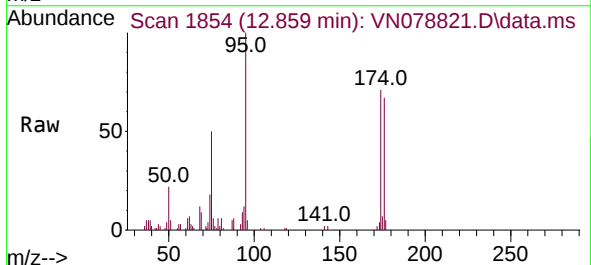
Tgt Ion: 95 Resp: 39788

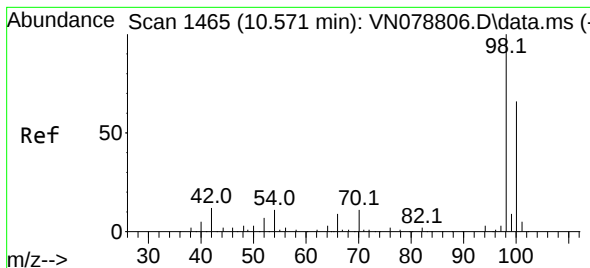
Ion Ratio Lower Upper

95 100

174 73.8 61.7 92.5

176 67.8 58.1 87.1





#63

Toluene-d8

Concen: 30.940 ug/l

RT: 10.576 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN078821.D

Acq: 09 Aug 2023 15:32

Instrument :

MSVOA_N

ClientSampleId :

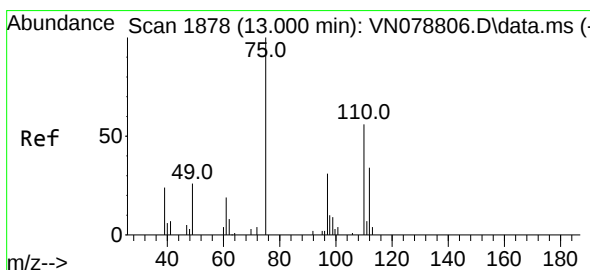
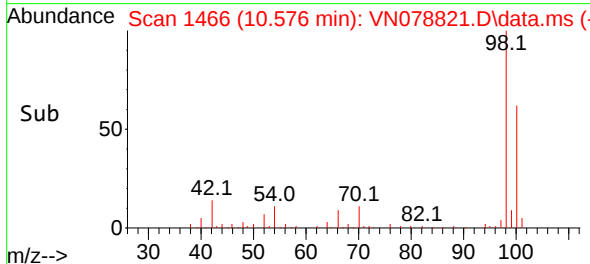
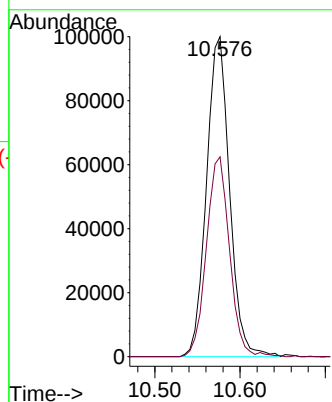
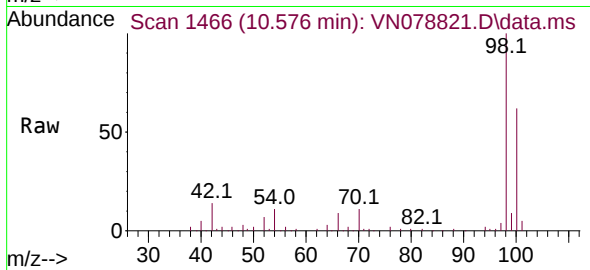
MANHOLE

Tgt Ion: 98 Resp: 188526

Ion Ratio Lower Upper

98 100

100 62.0 49.7 74.5



#72

1,2,3-Trichloropropane

Concen: 10.073 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078821.D

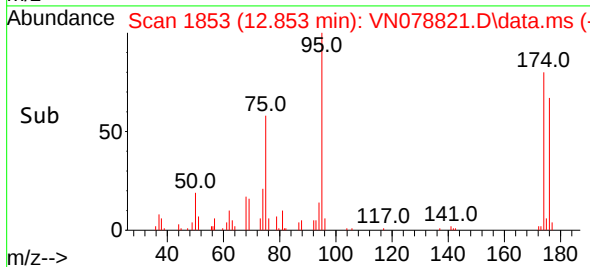
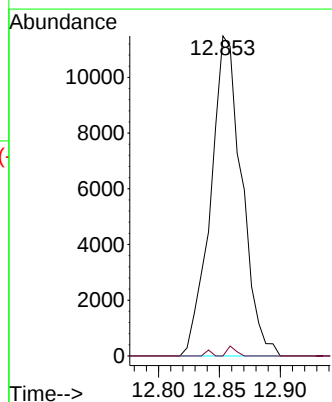
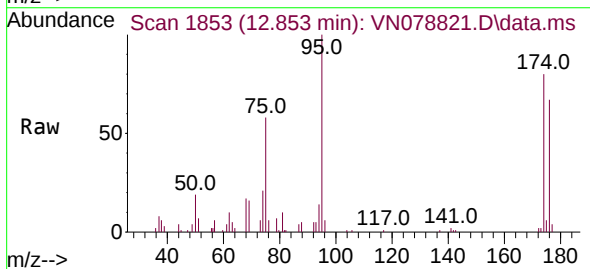
Acq: 09 Aug 2023 15:32

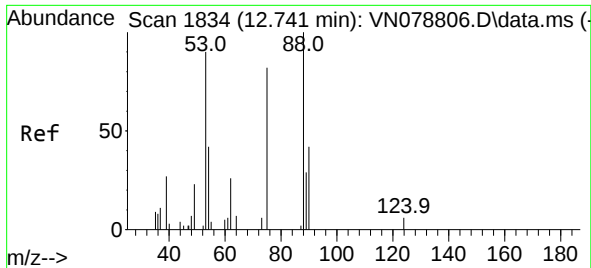
Tgt Ion: 75 Resp: 20422

Ion Ratio Lower Upper

75 100

77 0.9 0.0 387.4





#77

t-1,4-Dichloro-2-butene

Concen: 32.092 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN078821.D

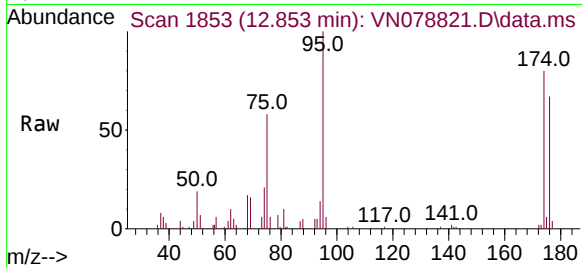
Acq: 09 Aug 2023 15:32

Instrument :

MSVOA_N

ClientSampleId :

MANHOLE



Tgt Ion: 75 Resp: 20422

Ion Ratio Lower Upper

75 100

53 0.0 41.6 124.9#

89 0.0 25.1 75.4#

