

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078817.D
 Acq On : 09 Aug 2023 13:55
 Operator : JC\MD
 Sample : 03940-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

Quant Time: Aug 10 05:28:55 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)

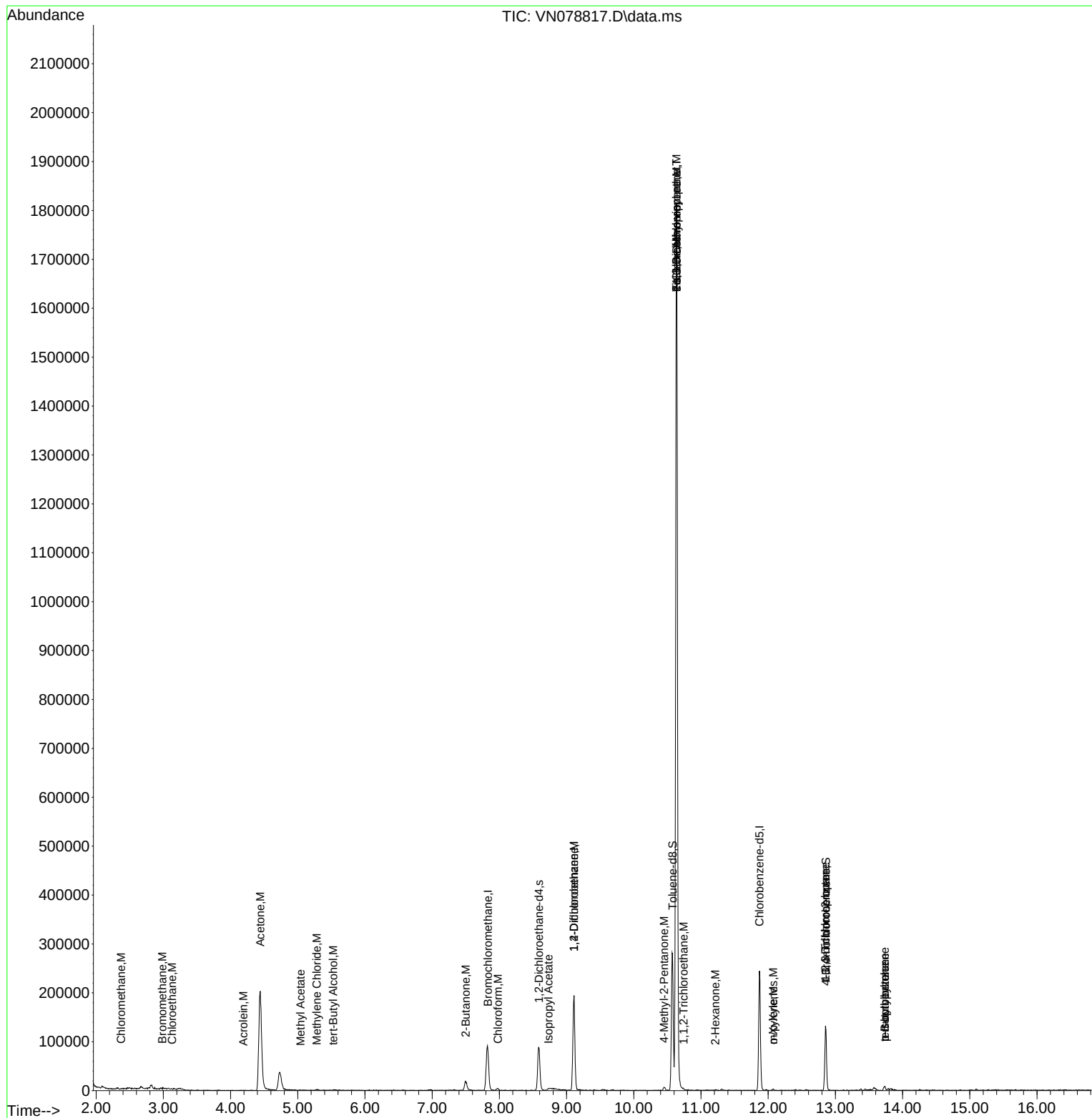
Internal Standards						
1) Bromochloromethane	7.830	128	17023	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	156188	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	135257	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	71306	52.029	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	173.433%#
60) 4-Bromofluorobenzene	12.859	95	43617	22.974	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.567%
63) Toluene-d8	10.577	98	191954	28.961	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.533%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	800	0.573	ug/l	91
5) Bromomethane	2.983	94	264	0.273	ug/l	97
6) Chloroethane	3.130	64	222	0.235	ug/l #	43
12) Methyl Acetate	5.042	43	447	0.217	ug/l #	49
13) Acrolein	4.189	56	168	0.770	ug/l #	13
15) Acetone	4.442	58	116690	834.123	ug/l	72
18) Methylene Chloride	5.283	84	306	0.259	ug/l #	36
23) tert-Butyl Alcohol	5.530	59	241	1.195	ug/l #	100
25) Chloroform	7.977	83	3451	1.638	ug/l #	81
30) 2-Butanone	7.500	43	28934	23.264	ug/l	95
36) 1,2-Dichloroethane	9.112	62	5999	2.223	ug/l #	75
44) Isopropyl Acetate	8.730	43	1768	0.381	ug/l	94
48) t-1,3-Dichloropropene	10.635	75	9655	3.489	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	9655	3.137	ug/l #	1
50) 1,1,2-Trichloroethane	10.741	97	1682	0.910	ug/l #	16
55) 2-Chloroethyl vinyl ether	10.635	63	90775	95.007	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	5146	1.979	ug/l #	83
59) 2-Hexanone	11.212	43	688	0.381	ug/l #	56
62) Toluene	10.635	91	1344005	168.780	ug/l	98
67) m/p-Xylenes	12.076	106	780	0.257	ug/l	84
68) o-Xylene	12.076	106	780	0.258	ug/l	79
72) 1,2,3-Trichloropropane	12.853	75	23828	10.805	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	23828	34.424	ug/l #	15
79) tert-butylbenzene	13.735	119	4360	0.897	ug/l	66
82) p-Isopropyltoluene	13.735	119	4360	0.856	ug/l	76
85) n-Butylbenzene	13.735	91	1442	0.385	ug/l #	45

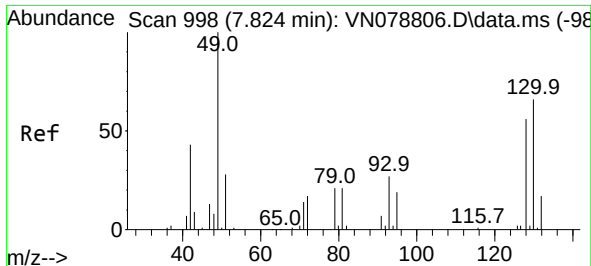
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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002-35TH-AVE(JUNE)

Quant Time: Aug 10 05:28:55 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

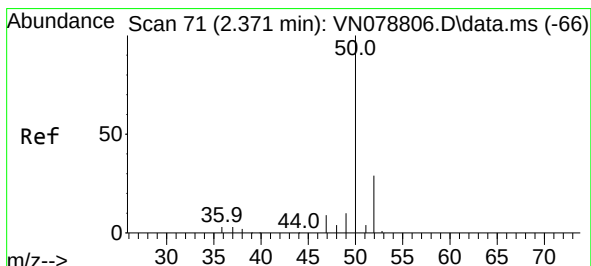
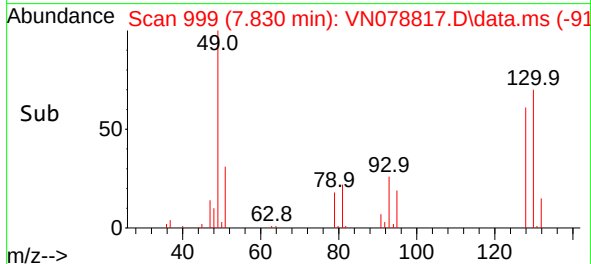
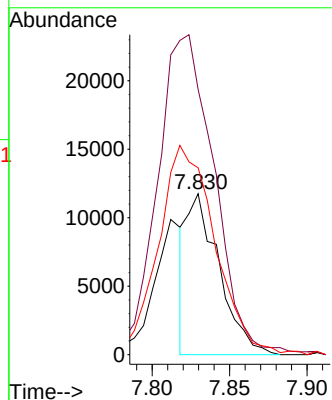
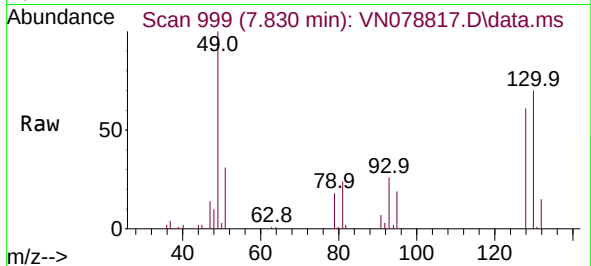




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.830 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

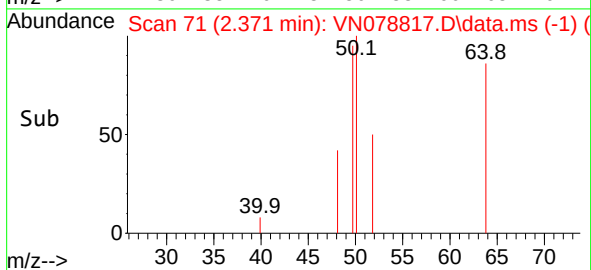
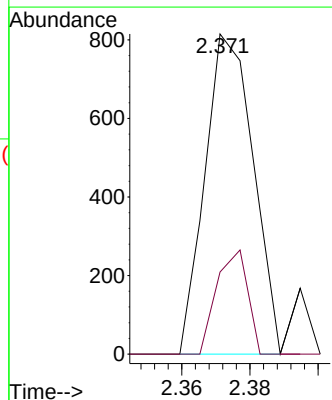
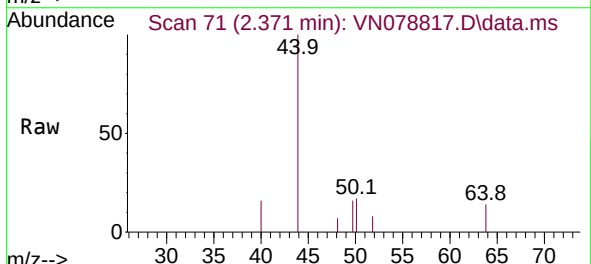
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

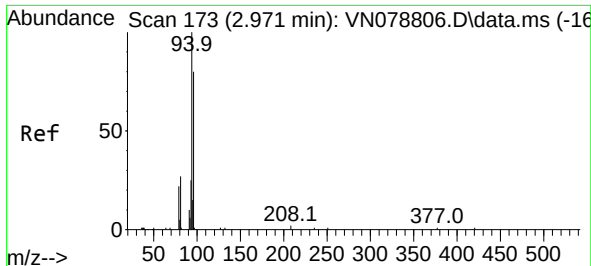
Tgt Ion:128 Resp: 17023
Ion Ratio Lower Upper
128 100
49 347.4 0.0 370.8
130 227.8 0.0 307.0



#3
Chloromethane
Concen: 0.573 ug/l
RT: 2.371 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 50 Resp: 800
Ion Ratio Lower Upper
50 100
52 25.6 24.6 36.8

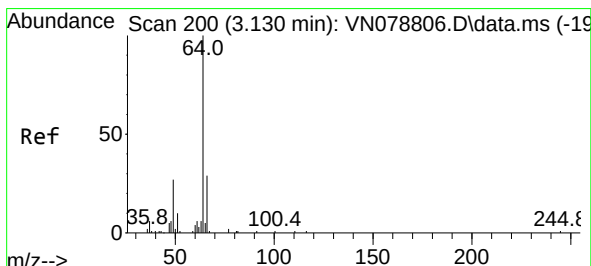
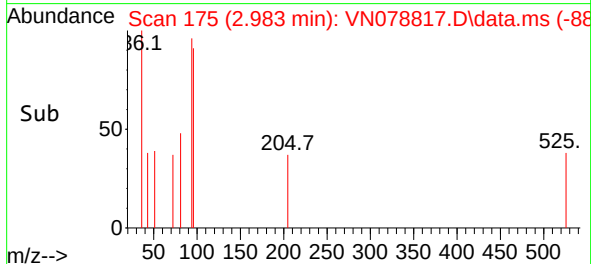
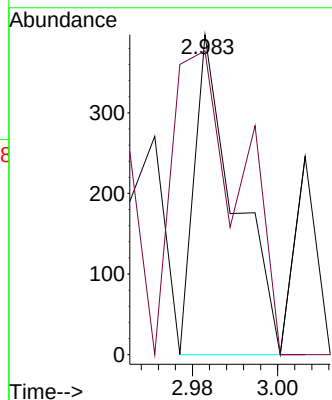
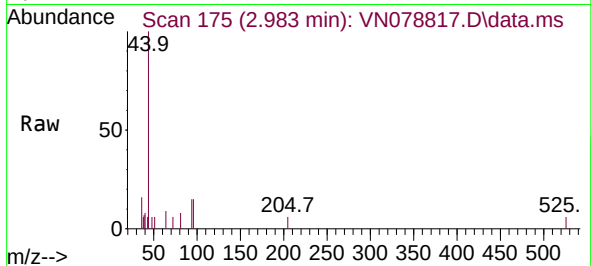




#5
Bromomethane
Concen: 0.273 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

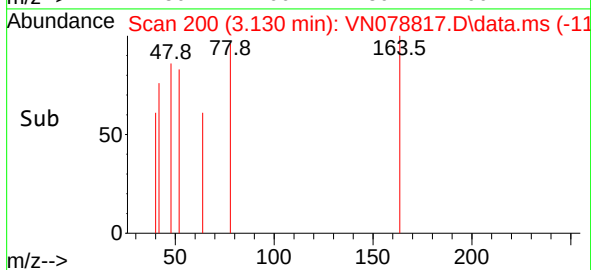
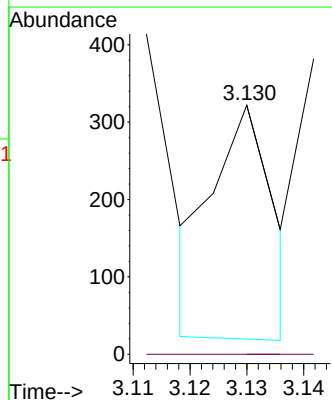
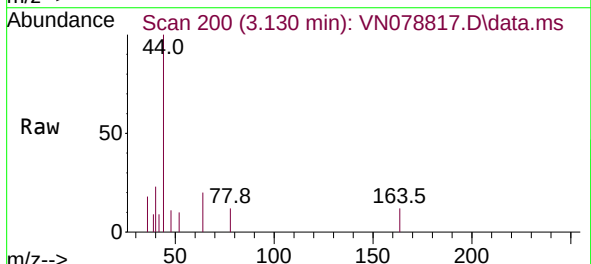
Instrument :
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ClientSampleId :
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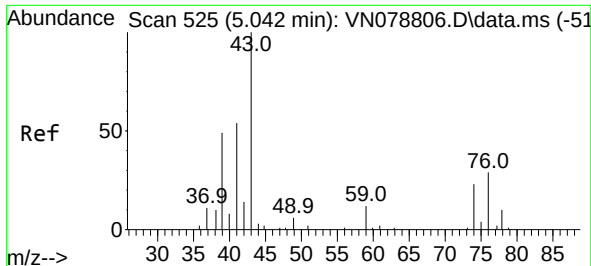
Tgt Ion: 94 Resp: 264
Ion Ratio Lower Upper
94 100
96 95.0 73.9 110.9



#6
Chloroethane
Concen: 0.235 ug/l
RT: 3.130 min Scan# 200
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 64 Resp: 222
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#

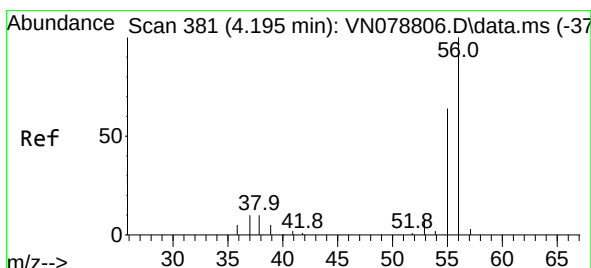
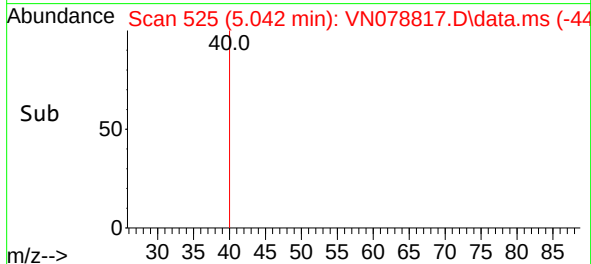
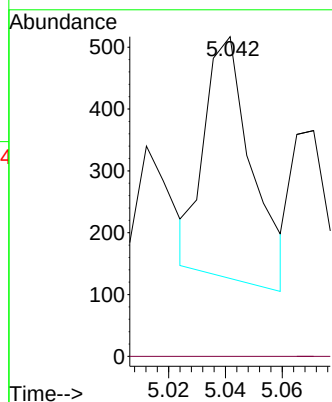
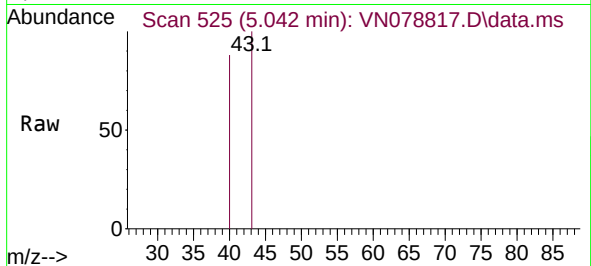




#12
Methyl Acetate
Concen: 0.217 ug/l
RT: 5.042 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

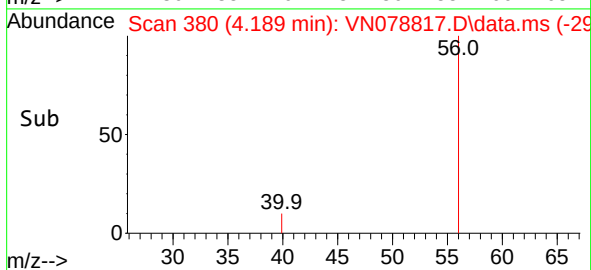
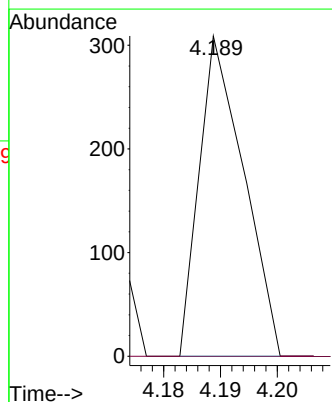
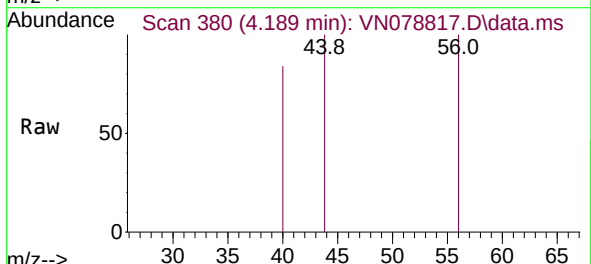
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

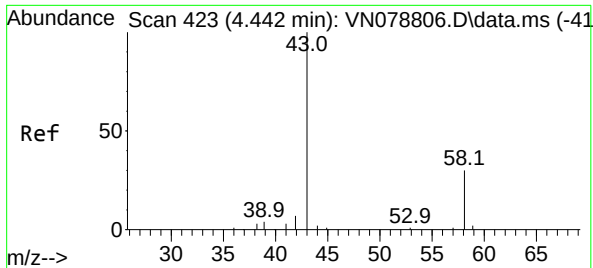
Tgt Ion: 43 Resp: 447
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#



#13
Acrolein
Concen: 0.770 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 56 Resp: 168
Ion Ratio Lower Upper
56 100
55 0.0 59.0 88.4#





#15

Acetone

Concen: 834.123 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN078817.D

Acq: 09 Aug 2023 13:55

Instrument :

MSVOA_N

ClientSampleId :

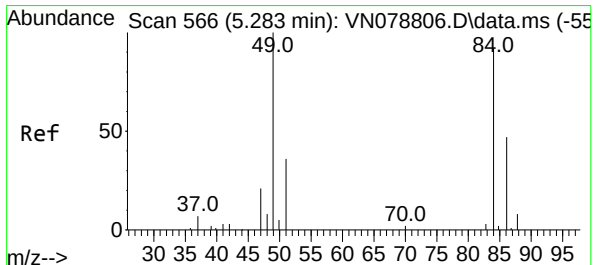
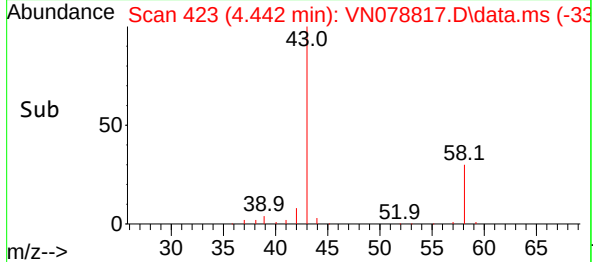
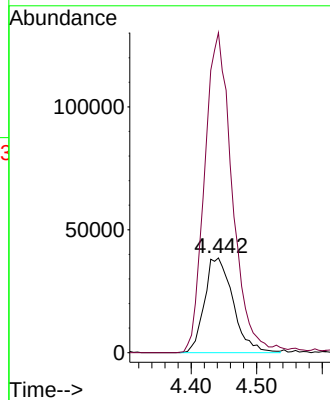
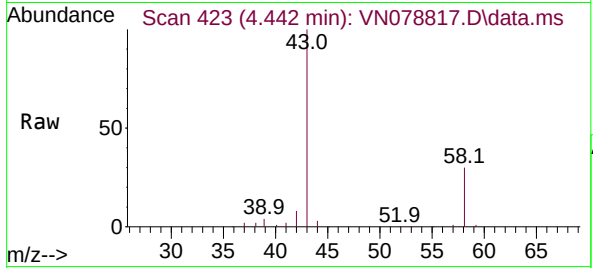
002-35TH-AVE(JUNE)

Tgt Ion: 58 Resp: 116690

Ion Ratio Lower Upper

58 100

43 337.4 227.5 341.3



#18

Methylene Chloride

Concen: 0.259 ug/l

RT: 5.283 min Scan# 566

Delta R.T. -0.000 min

Lab File: VN078817.D

Acq: 09 Aug 2023 13:55

Tgt Ion: 84 Resp: 306

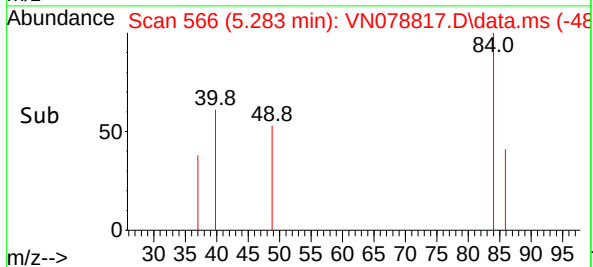
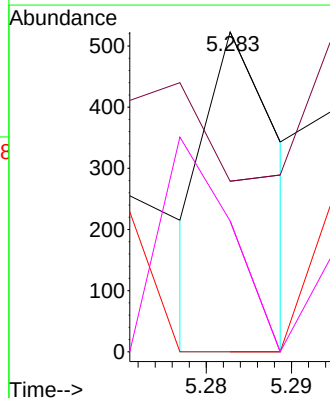
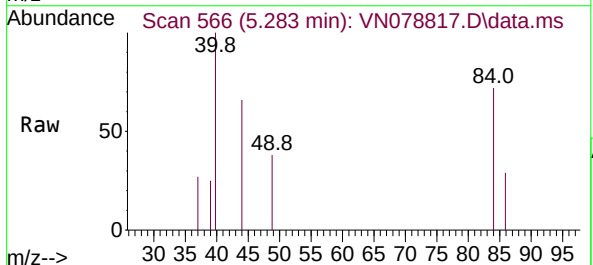
Ion Ratio Lower Upper

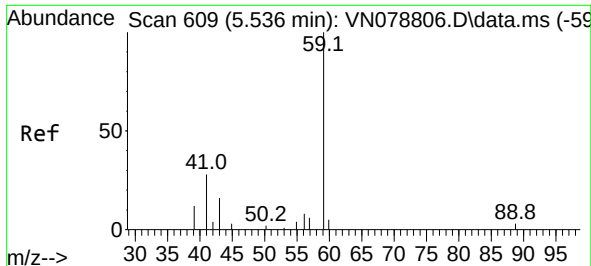
84 100

49 0.0 88.1 132.1#

51 0.0 24.0 36.0#

86 69.5 53.8 80.8

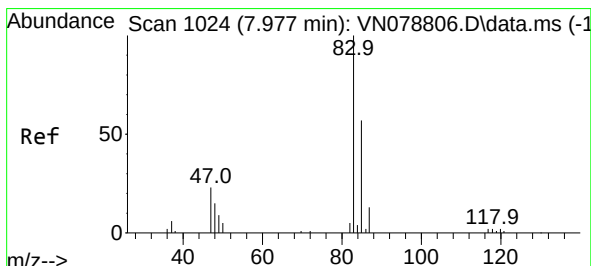
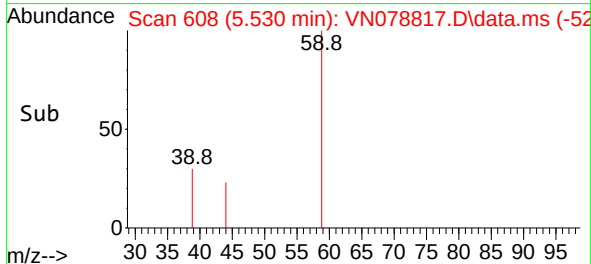
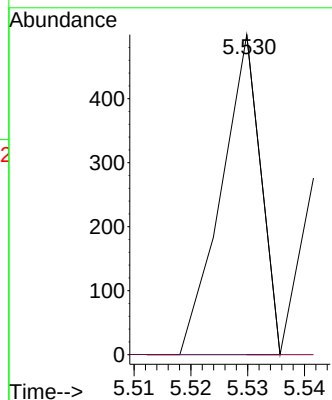
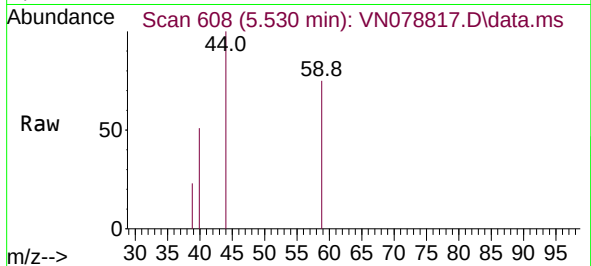




#23
tert-Butyl Alcohol
Concen: 1.195 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

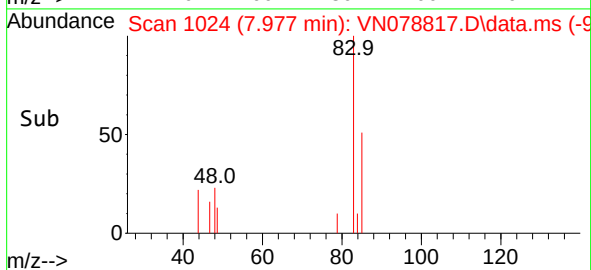
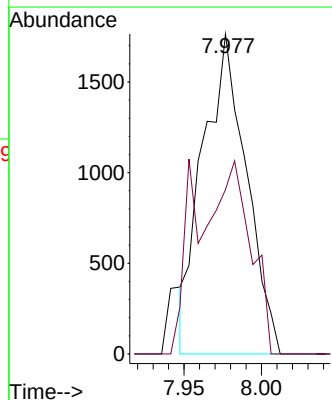
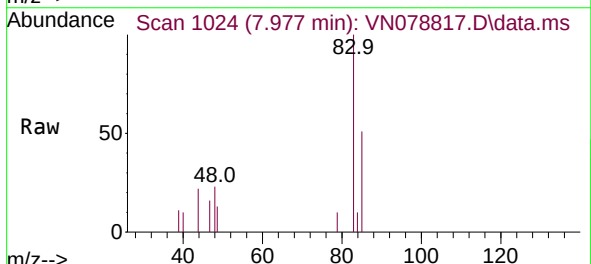
Instrument :
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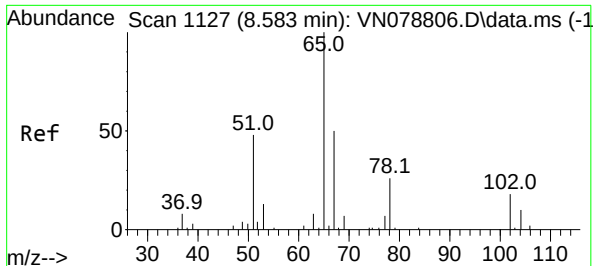
Tgt Ion: 59 Resp: 241
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 1.638 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 83 Resp: 3451
Ion Ratio Lower Upper
83 100
85 51.3 53.4 80.0#

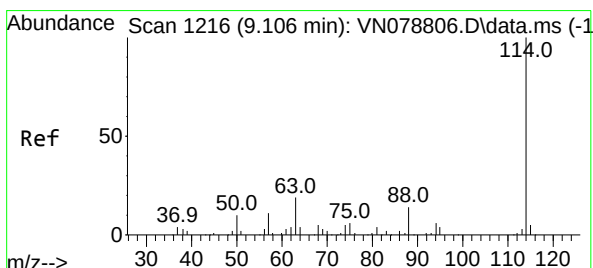
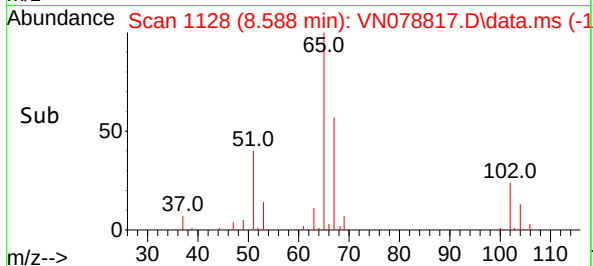
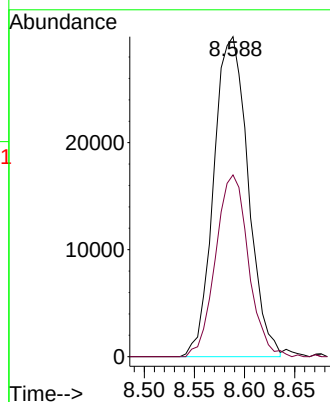
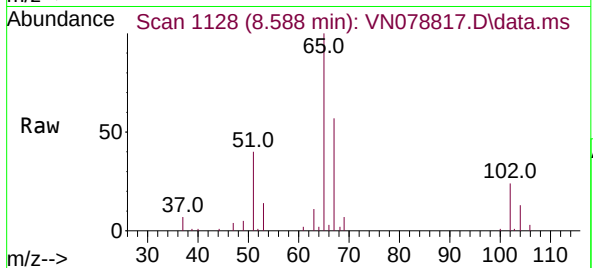




#27
1,2-Dichloroethane-d4
Concen: 52.029 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

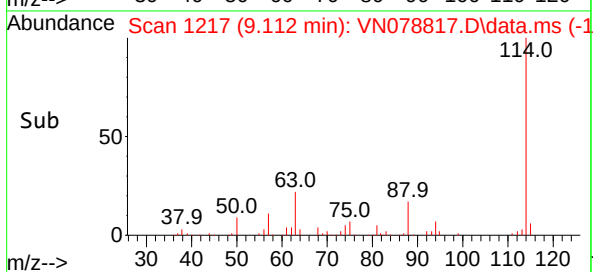
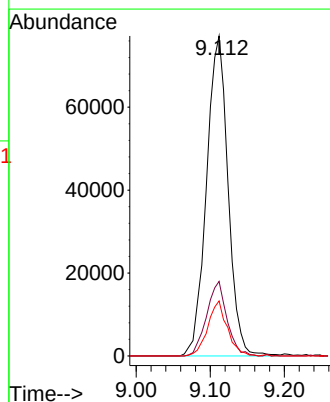
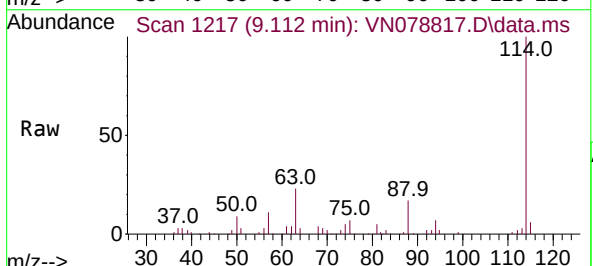
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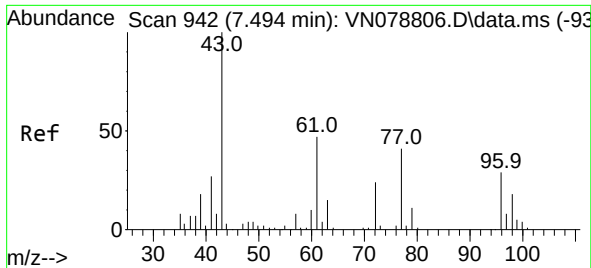
Tgt Ion: 65 Resp: 71306
Ion Ratio Lower Upper
65 100
67 54.2 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 114 Resp: 156188
Ion Ratio Lower Upper
114 100
63 22.0 15.2 22.8
88 15.6 12.5 18.7

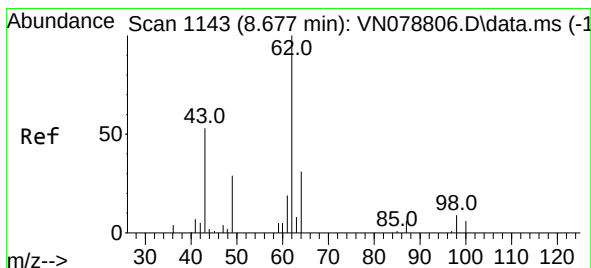
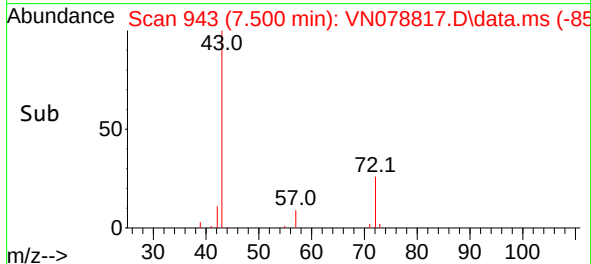
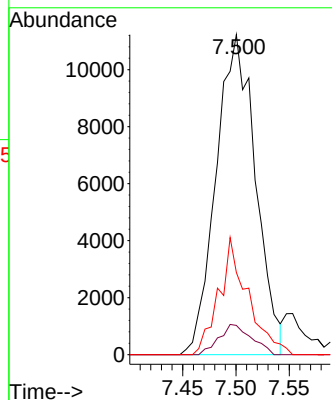
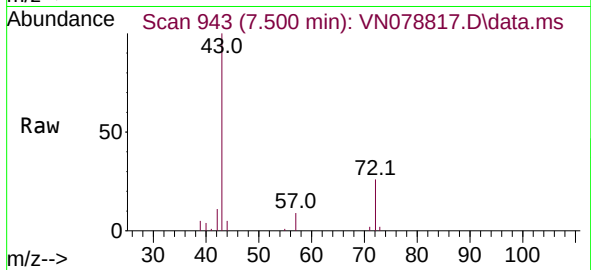




#30
2-Butanone
Concen: 23.264 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

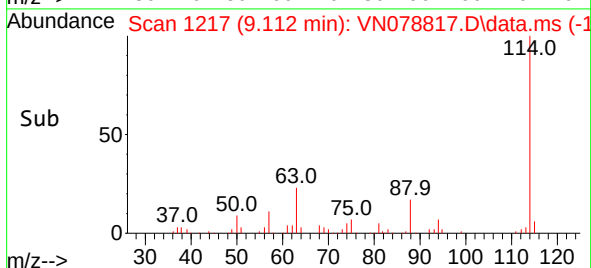
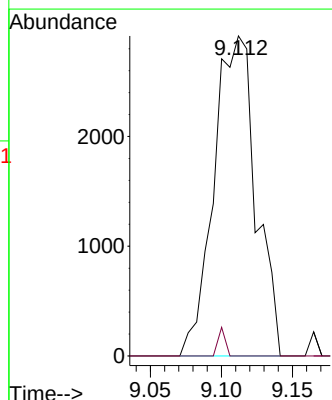
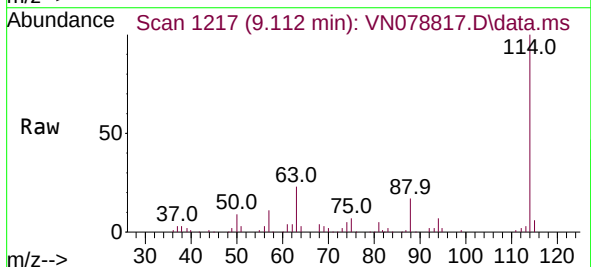
Instrument :
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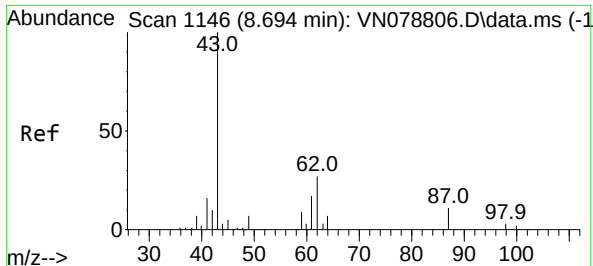
Tgt Ion: 43 Resp: 28934
Ion Ratio Lower Upper
43 100
57 7.8 6.8 10.2
72 26.8 23.8 35.6



#36
1,2-Dichloroethane
Concen: 2.223 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.435 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 62 Resp: 5999
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.0#

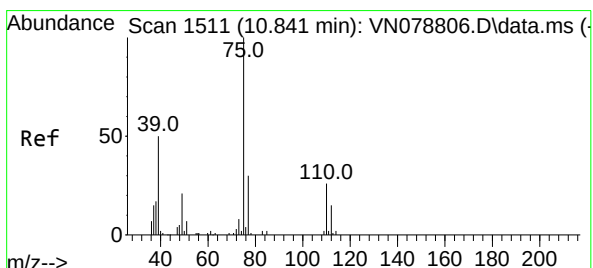
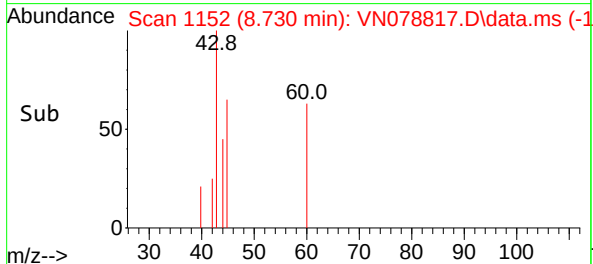
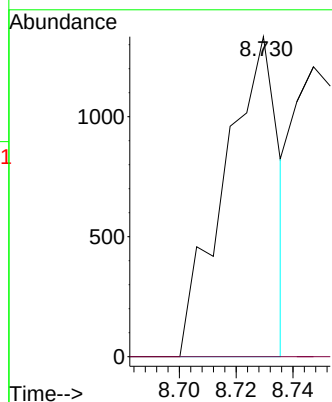
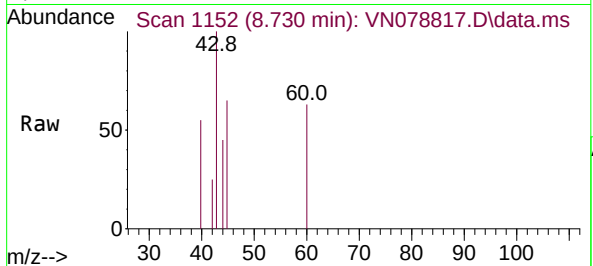




#44
Isopropyl Acetate
Concen: 0.381 ug/l
RT: 8.730 min Scan# 1146
Delta R.T. 0.035 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

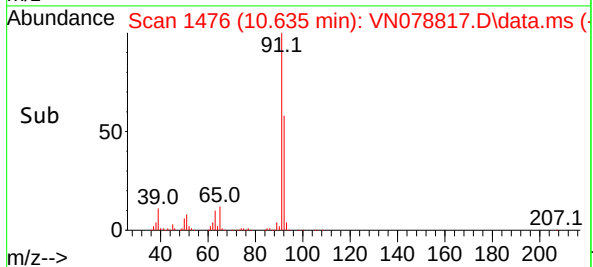
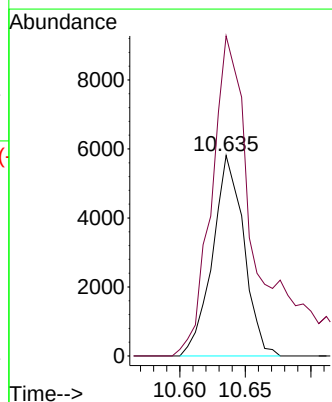
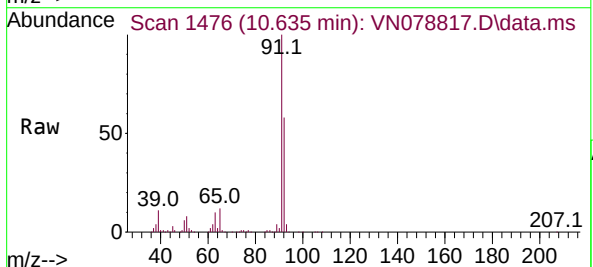
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

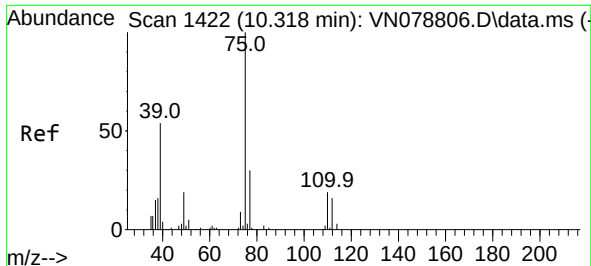
Tgt Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
61 32.2 23.0 34.6



#48
t-1,3-Dichloropropene
Concen: 3.489 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 75 Resp: 9655
Ion Ratio Lower Upper
75 100
77 156.3 26.1 39.1#

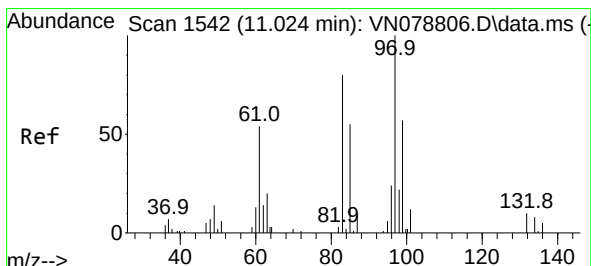
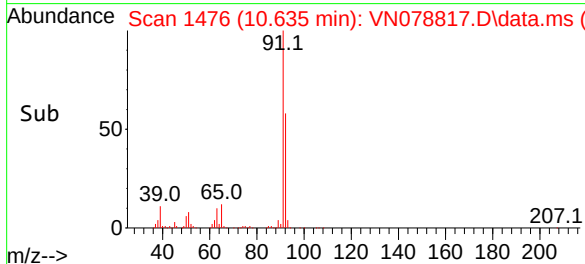
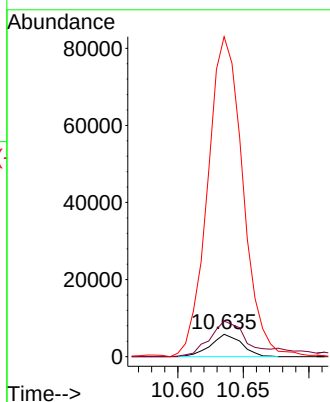
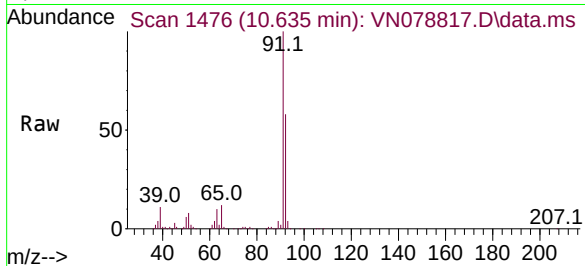




#49
cis-1,3-Dichloropropene
Concen: 3.137 ug/l
RT: 10.635 min Scan# 1422
Delta R.T. 0.318 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

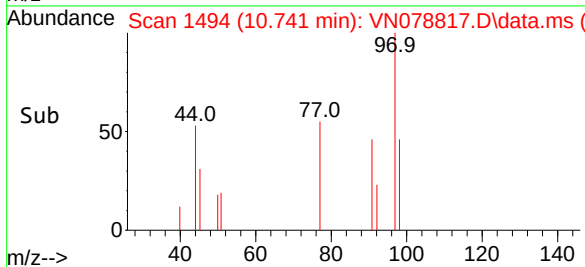
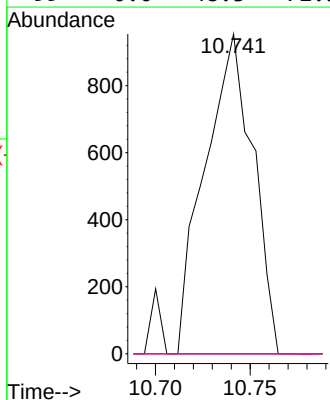
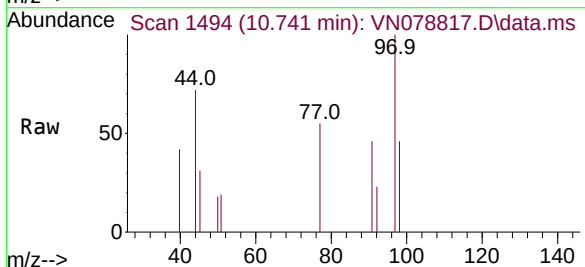
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

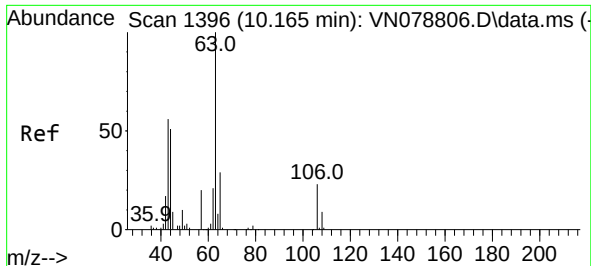
Tgt Ion: 75 Resp: 9655
Ion Ratio Lower Upper
75 100
77 156.3 24.0 36.0#
39 1412.6 35.1 52.7#



#50
1,1,2-Trichloroethane
Concen: 0.910 ug/l
RT: 10.741 min Scan# 1494
Delta R.T. -0.282 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 97 Resp: 1682
Ion Ratio Lower Upper
97 100
83 0.0 66.8 100.2#
85 0.0 42.5 63.7#
99 0.0 48.3 72.5#

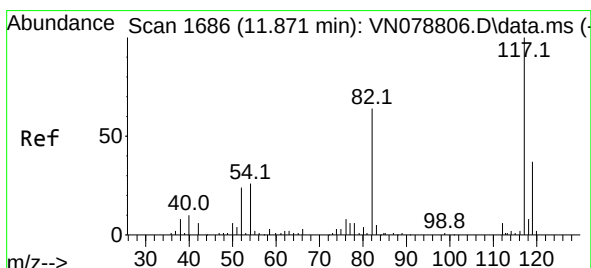
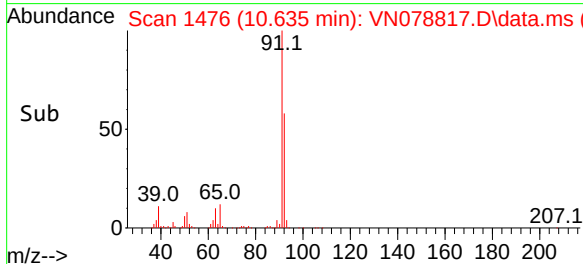
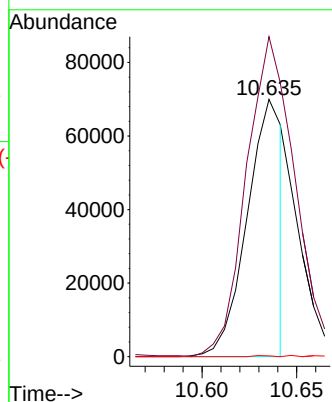
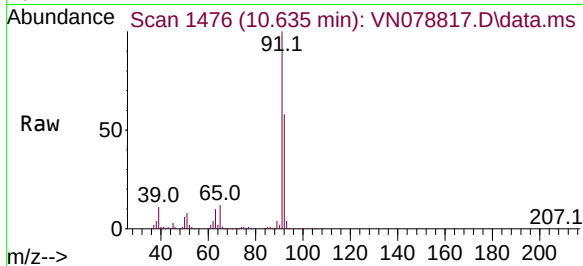




#55
2-Chloroethyl vinyl ether
Concen: 95.007 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

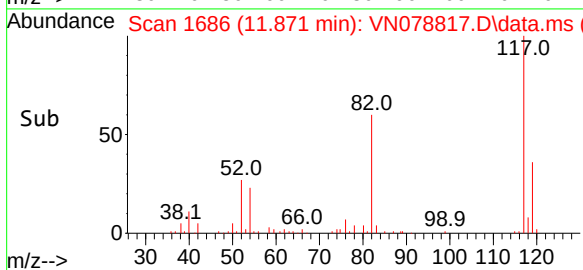
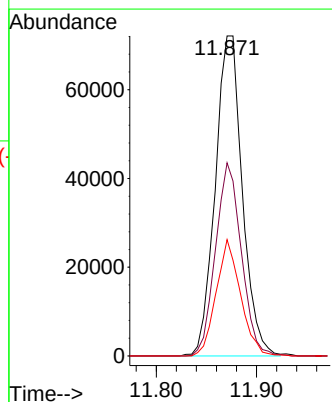
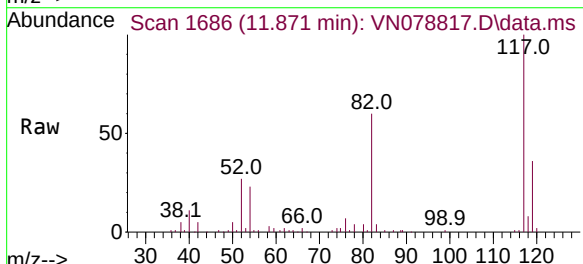
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

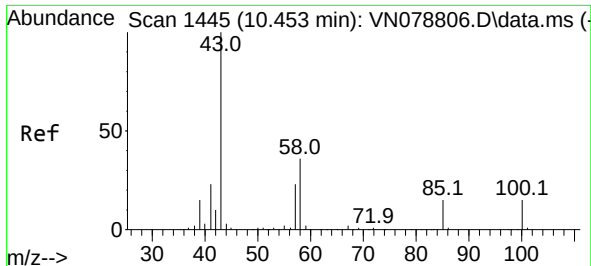
Tgt Ion: 63 Resp: 90775
Ion Ratio Lower Upper
63 100
65 125.2 26.3 39.5#
106 0.2 23.8 35.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 117 Resp: 135257
Ion Ratio Lower Upper
117 100
82 57.5 43.9 65.9
119 32.7 26.2 39.4

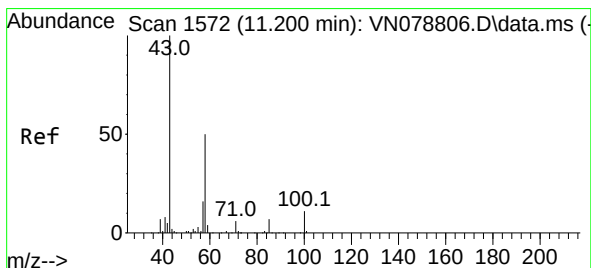
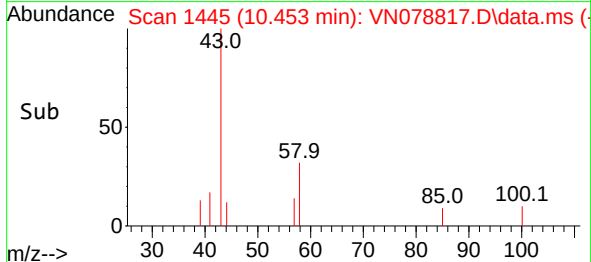
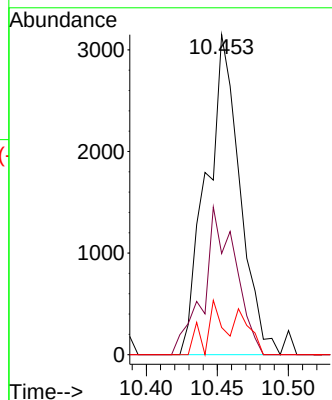
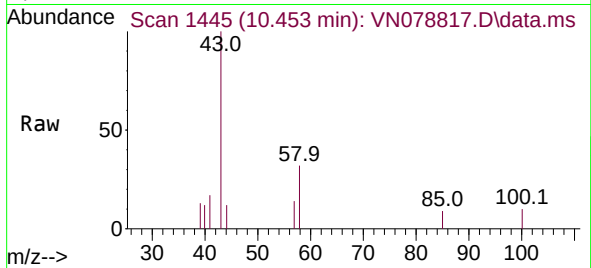




#58
4-Methyl-2-Pentanone
Concen: 1.979 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

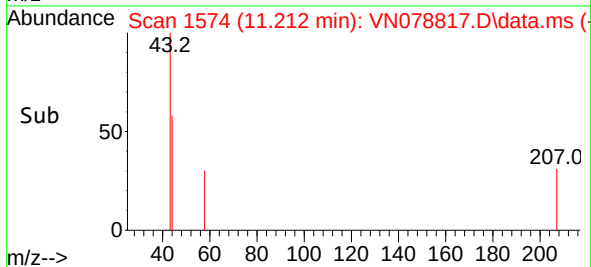
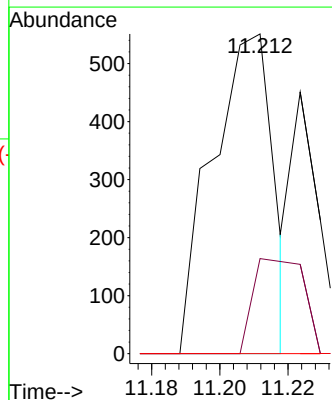
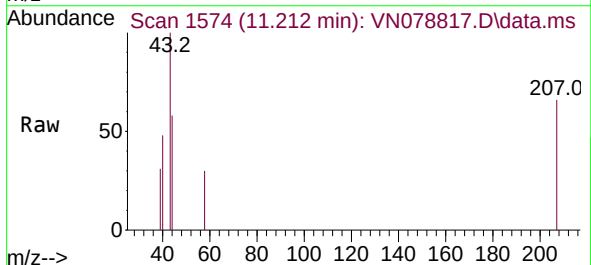
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

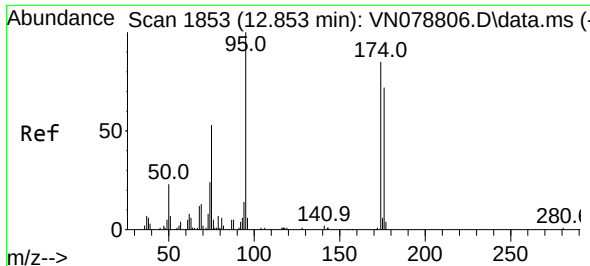
Tgt Ion: 43 Resp: 5146
Ion Ratio Lower Upper
43 100
58 34.3 32.6 48.8
85 6.8 16.2 24.2#



#59
2-Hexanone
Concen: 0.381 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
58 24.4 45.9 68.9#
57 0.0 15.8 23.6#

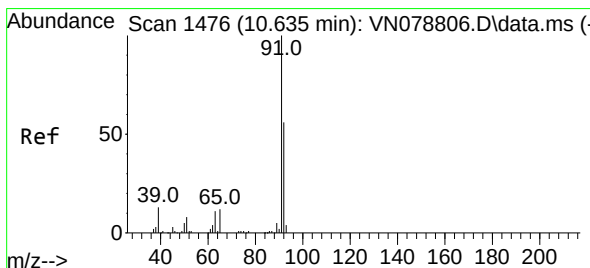
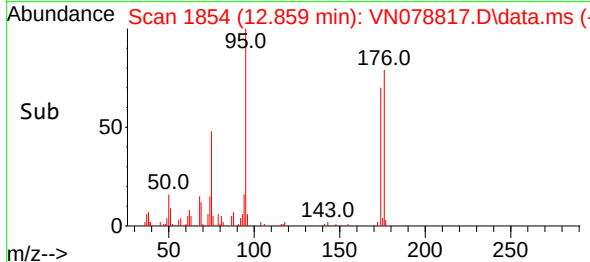
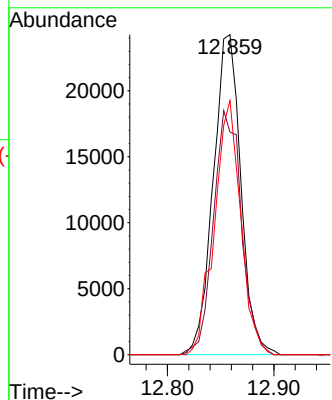
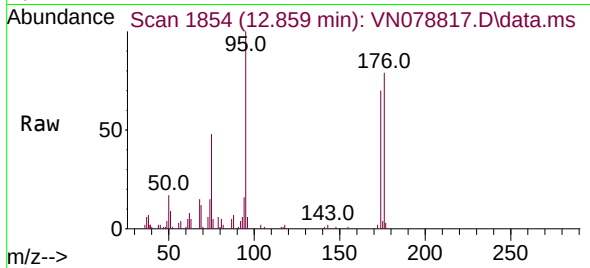




#60
4-Bromofluorobenzene
Concen: 22.974 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

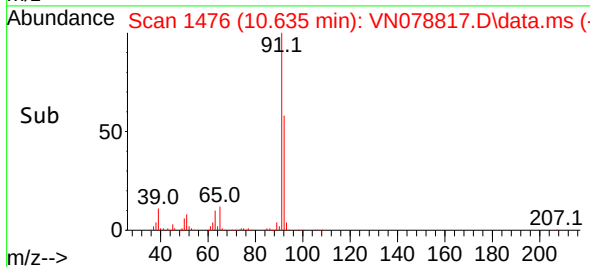
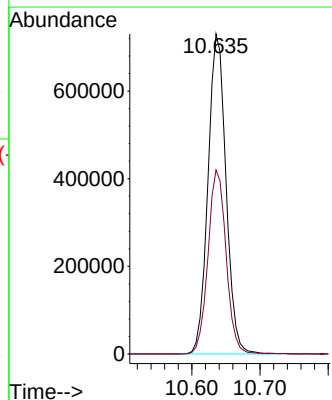
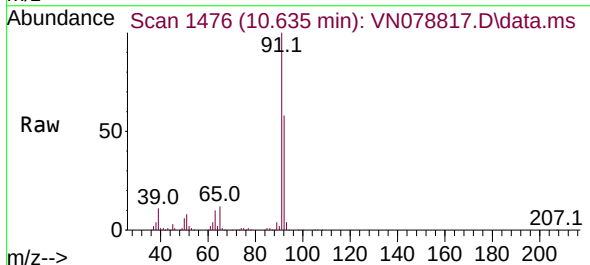
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

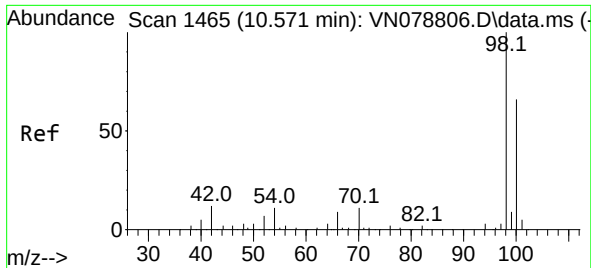
Tgt Ion: 95 Resp: 43617
Ion Ratio Lower Upper
95 100
174 77.4 61.7 92.5
176 75.8 58.1 87.1



#62
Toluene
Concen: 168.780 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 91 Resp: 1344005
Ion Ratio Lower Upper
91 100
92 57.7 45.2 67.8

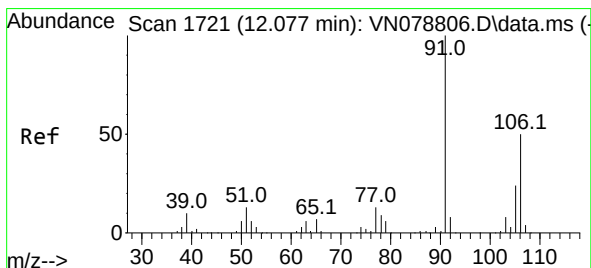
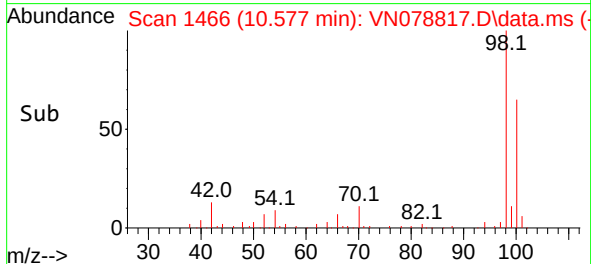
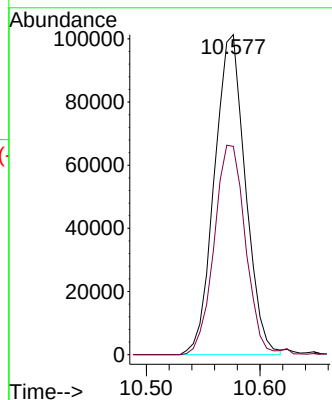
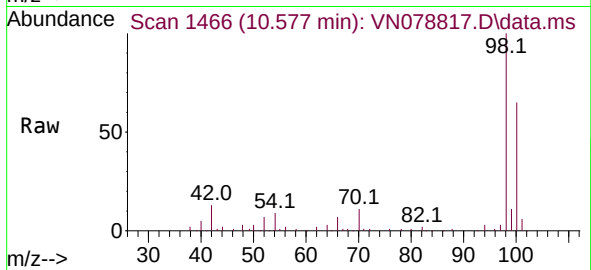




#63
Toluene-d8
Concen: 28.961 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

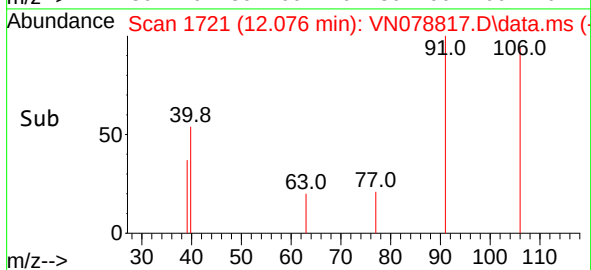
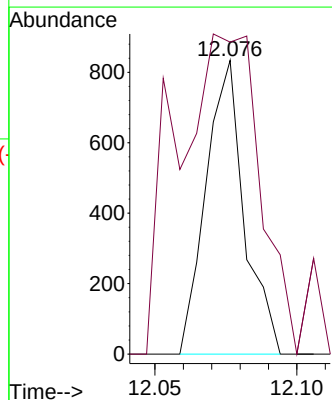
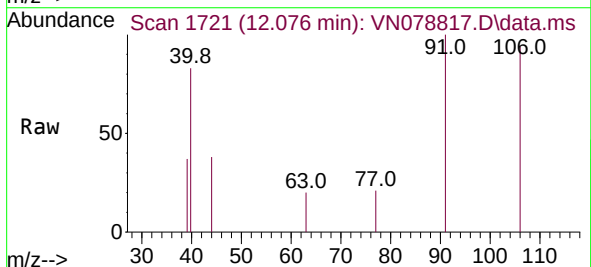
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

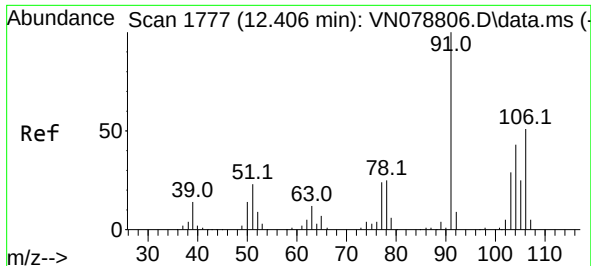
Tgt Ion: 98 Resp: 191954
Ion Ratio Lower Upper
98 100
100 65.6 49.7 74.5



#67
m/p-Xylenes
Concen: 0.257 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. -0.000 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion:106 Resp: 780
Ion Ratio Lower Upper
106 100
91 179.4 162.5 243.7

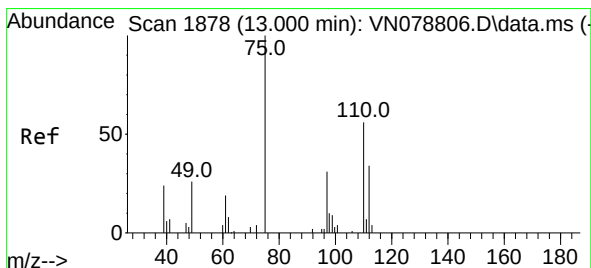
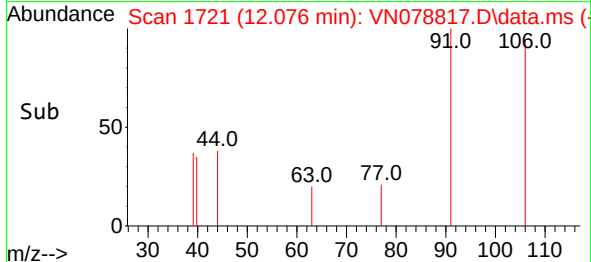
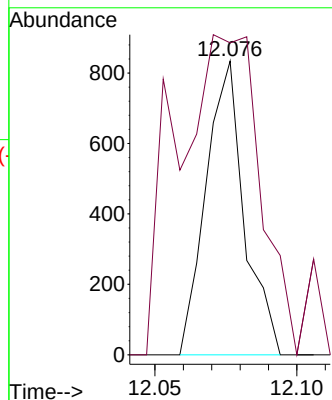
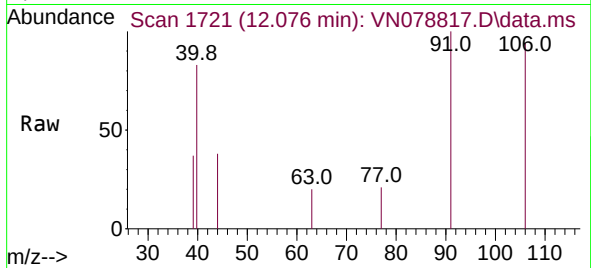




#68
o-Xylene
Concen: 0.258 ug/l
RT: 12.076 min Scan# 11
Delta R.T. -0.329 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

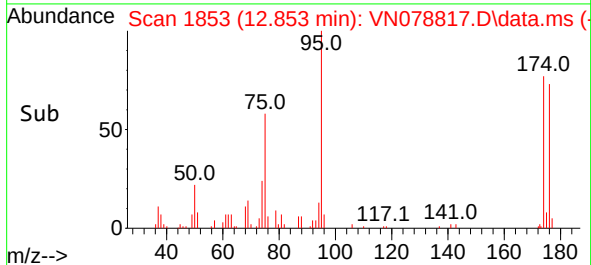
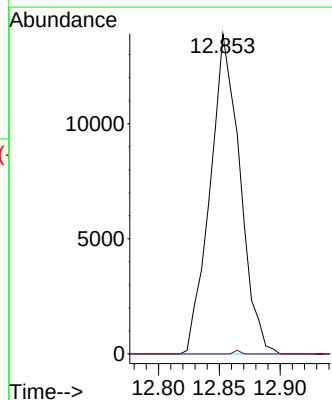
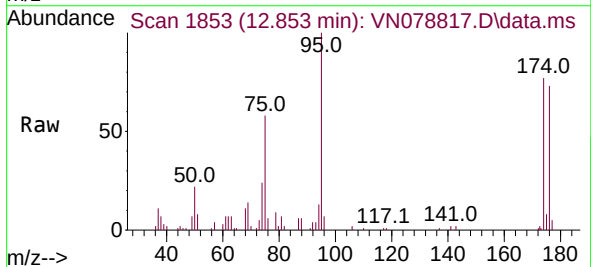
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

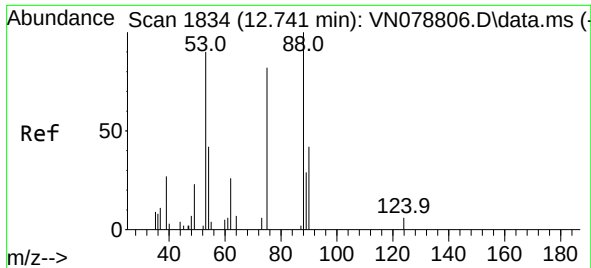
Tgt Ion:106 Resp: 780
Ion Ratio Lower Upper
106 100
91 179.4 106.1 318.3



#72
1,2,3-Trichloropropane
Concen: 10.805 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078817.D
Acq: 09 Aug 2023 13:55

Tgt Ion: 75 Resp: 23828
Ion Ratio Lower Upper
75 100
77 0.0 0.0 387.4





#77

t-1,4-Dichloro-2-butene

Concen: 34.424 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN078817.D

Acq: 09 Aug 2023 13:55

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

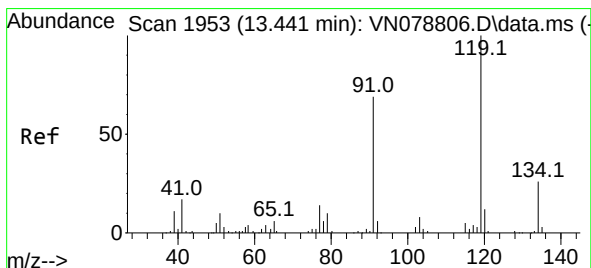
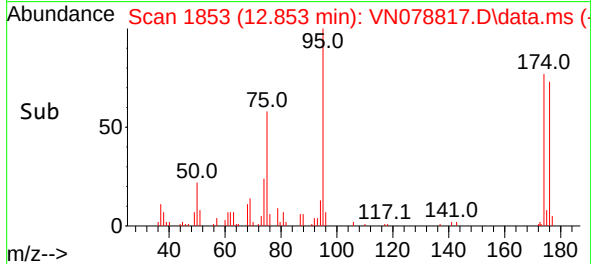
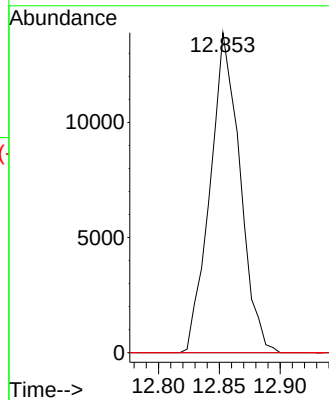
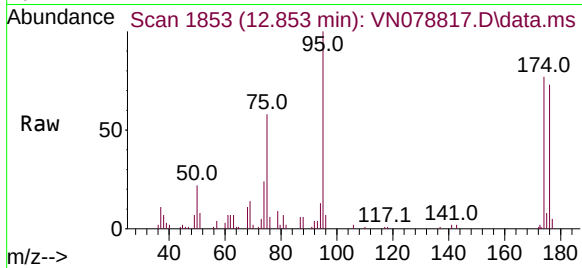
Tgt Ion: 75 Resp: 23828

Ion Ratio Lower Upper

75 100

53 0.0 41.6 124.9#

89 0.0 25.1 75.4#



#79

tert-butylbenzene

Concen: 0.897 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN078817.D

Acq: 09 Aug 2023 13:55

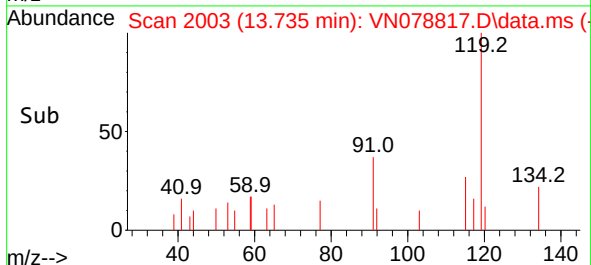
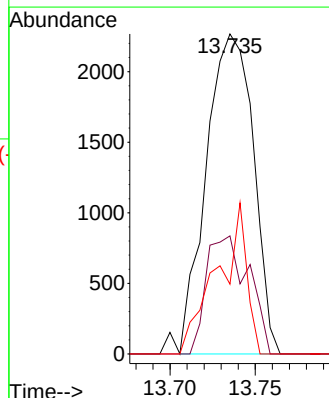
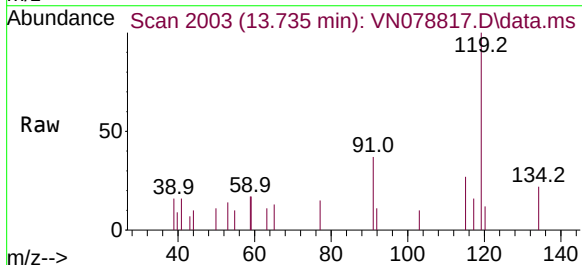
Tgt Ion: 119 Resp: 4360

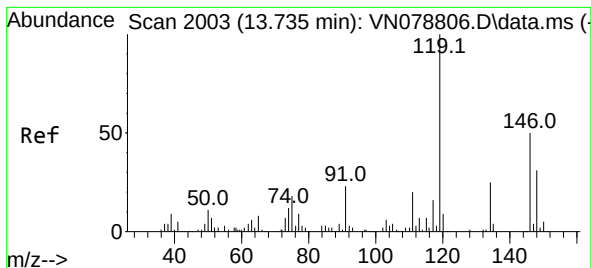
Ion Ratio Lower Upper

119 100

91 33.1 0.0 126.6

134 11.6 0.0 44.0





#82

p-Isopropyltoluene

Concen: 0.856 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN078817.D

Acq: 09 Aug 2023 13:55

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

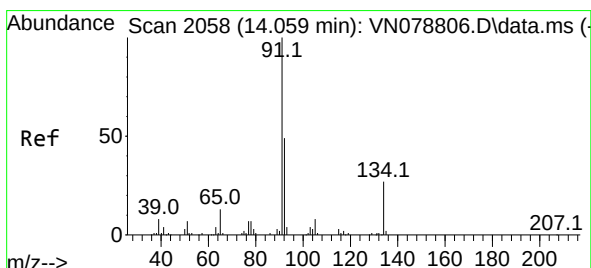
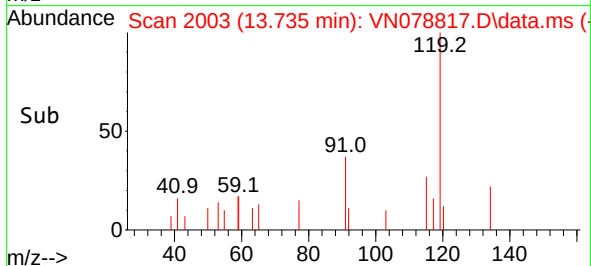
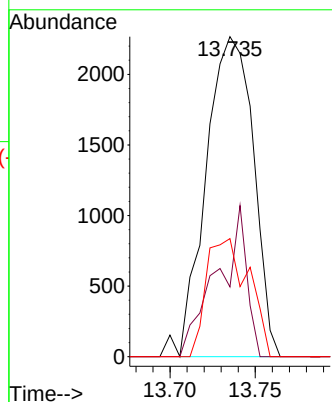
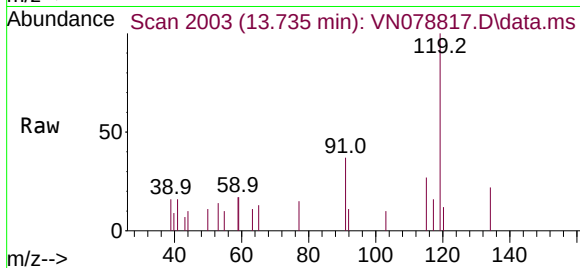
Tgt Ion:119 Resp: 4360

Ion Ratio Lower Upper

119 100

134 11.6 0.0 52.4

91 33.1 0.0 48.2



#85

n-Butylbenzene

Concen: 0.385 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.324 min

Lab File: VN078817.D

Acq: 09 Aug 2023 13:55

Tgt Ion: 91 Resp: 1442

Ion Ratio Lower Upper

91 100

92 0.0 0.0 99.6

134 35.1 0.0 50.0

