

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076696.D
 Acq On : 15 Feb 2023 19:40
 Operator : JC\MD
 Sample : 01535-02RE 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 16 04:36:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

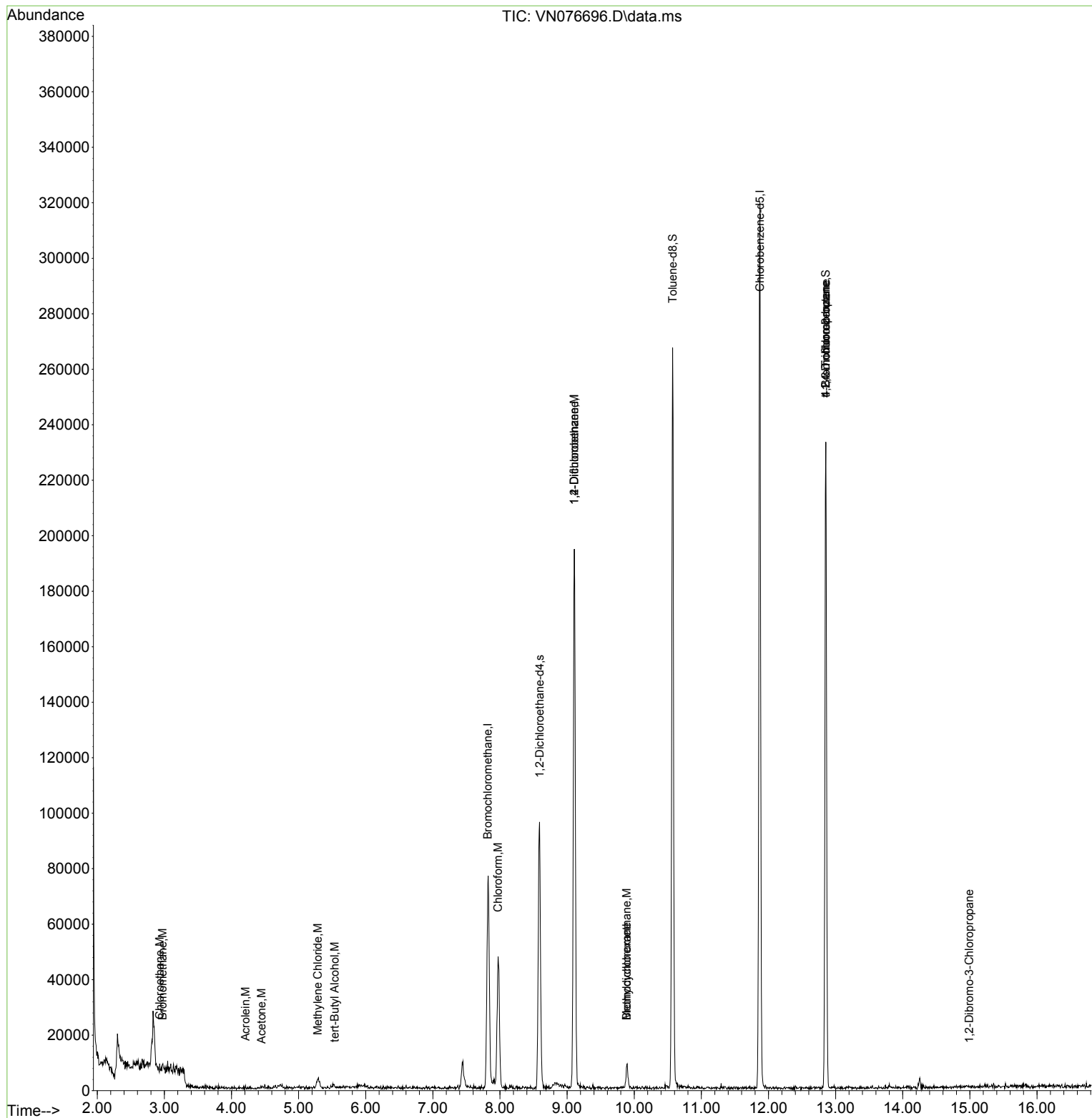
Internal Standards						
1) Bromochloromethane	7.819	128	23868	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	156191	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	171984	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	74496	34.126	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 113.767%#	
60) 4-Bromofluorobenzene	12.854	95	71653	23.554	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 78.500%	
63) Toluene-d8	10.571	98	176084	29.230	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.433%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.972	94	499	0.218	ug/l #	75
6) Chloroethane	2.931	64	466	0.217	ug/l	99
13) Acrolein	4.207	56	134	0.234	ug/l #	15
15) Acetone	4.448	58	109	0.227	ug/l #	1
18) Methylene Chloride	5.284	84	1731	0.582	ug/l #	48
23) tert-Butyl Alcohol	5.537	59	184	0.430	ug/l #	100
25) Chloroform	7.972	83	43694	8.544	ug/l	97
36) 1,2-Dichloroethane	9.107	62	6059	1.591	ug/l #	75
38) Methylcyclohexane	9.889	83	6339	1.414	ug/l #	18
41) Bromodichloromethane	9.889	83	6339	1.676	ug/l #	96
72) 1,2,3-Trichloropropane	12.854	75	40971	11.317	ug/l	1
77) t-1,4-Dichloro-2-butene	12.854	75	40971	35.223	ug/l #	9
88) 1,2-Dibromo-3-Chloropr...	14.989	75	167	0.219	ug/l #	5

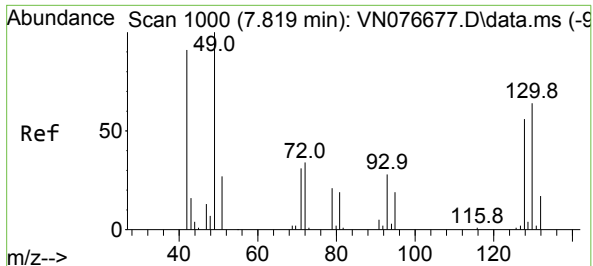
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
Data File : VN076696.D
Acq On : 15 Feb 2023 19:40
Operator : JC\MD
Sample : 01535-02RE 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 16 04:36:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Feb 16 01:08:46 2023
Response via : Initial Calibration

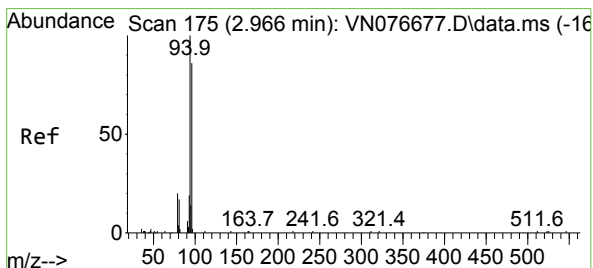
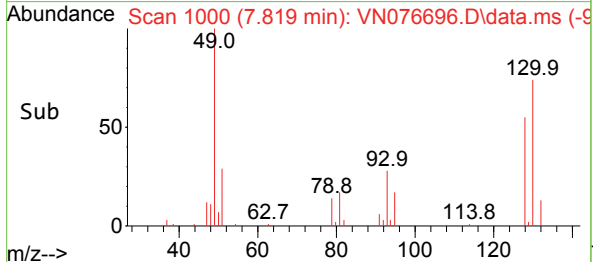
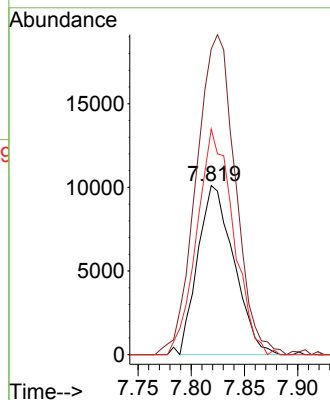
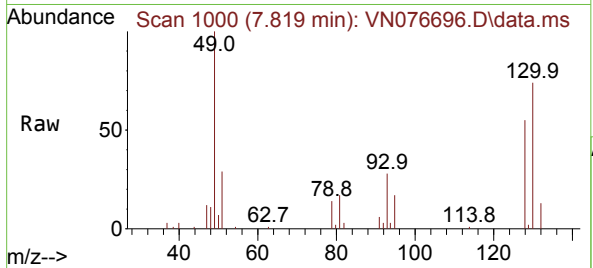




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

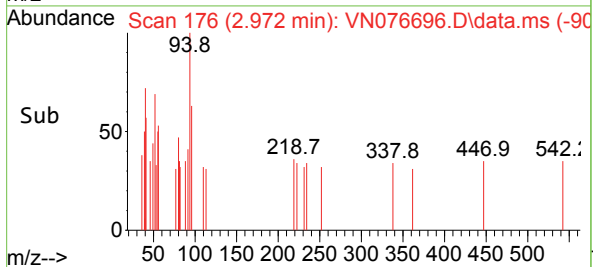
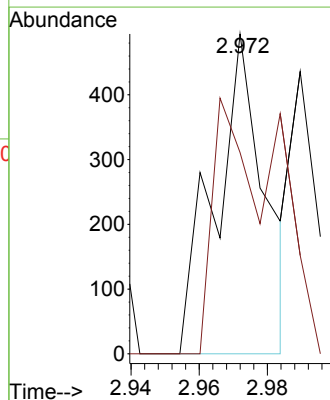
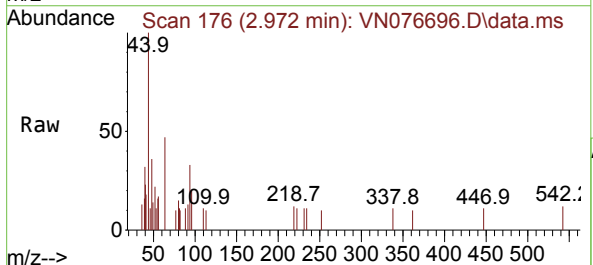
Instrument :
MSVOA_N
ClientSampleId :

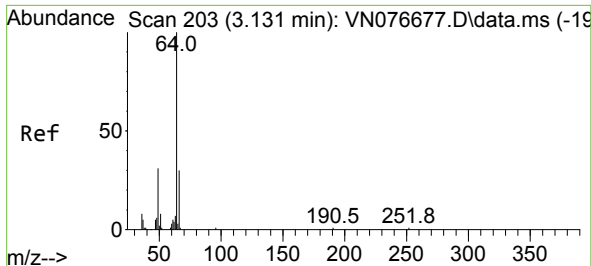
Tgt Ion:128 Resp: 23868
Ion Ratio Lower Upper
128 100
49 204.4 0.0 461.8
130 134.5 0.0 295.3



#5
Bromomethane
Concen: 0.218 ug/l
RT: 2.972 min Scan# 176
Delta R.T. 0.006 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

Tgt Ion: 94 Resp: 499
Ion Ratio Lower Upper
94 100
96 63.0 68.6 103.0#

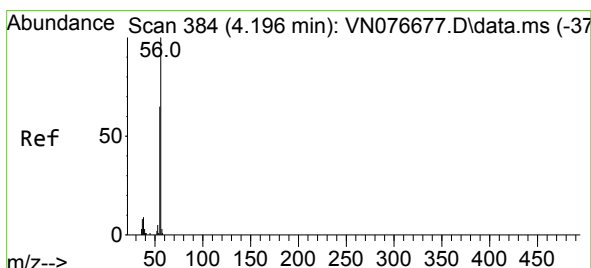
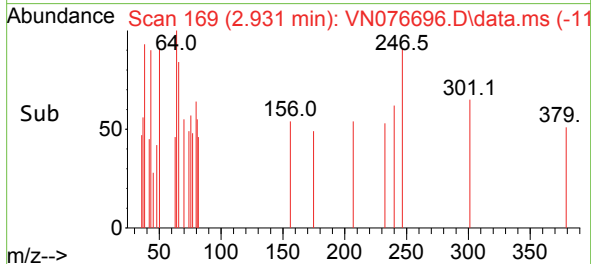
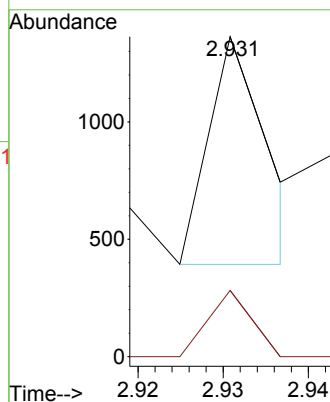
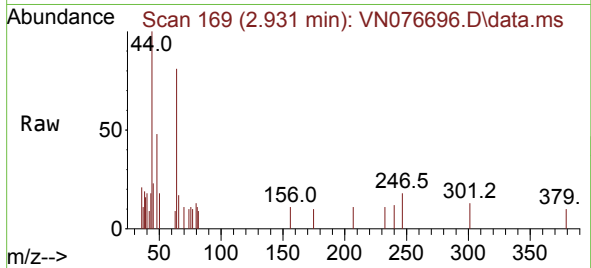




#6
Chloroethane
Concen: 0.217 ug/l
RT: 2.931 min Scan# 11
Delta R.T. -0.200 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

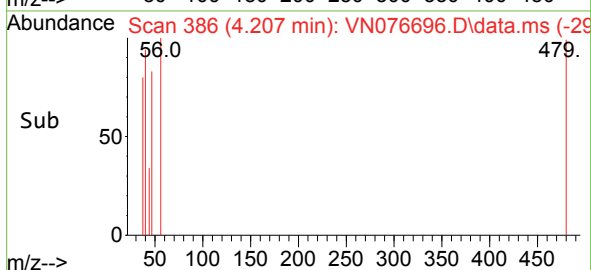
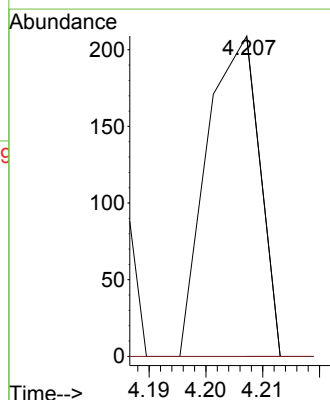
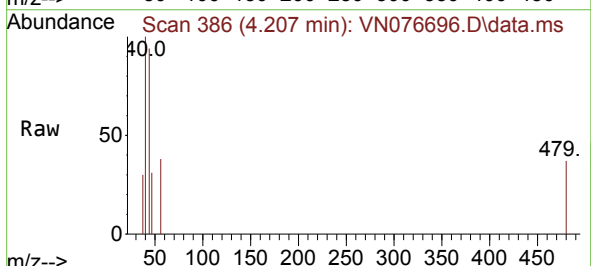
Instrument :
MSVOA_N
ClientSampleId :

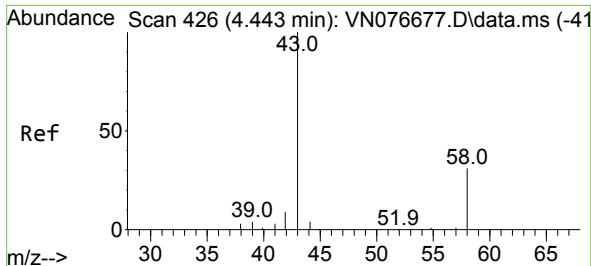
Tgt Ion: 64 Resp: 466
Ion Ratio Lower Upper
64 100
66 29.1 23.8 35.6



#13
Acrolein
Concen: 0.234 ug/l
RT: 4.207 min Scan# 386
Delta R.T. 0.012 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

Tgt Ion: 56 Resp: 134
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.4#





#15

Acetone

Concen: 0.227 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN076696.D

Acq: 15 Feb 2023 19:40

Instrument :

MSVOA_N

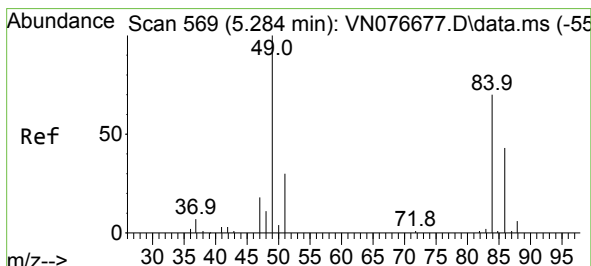
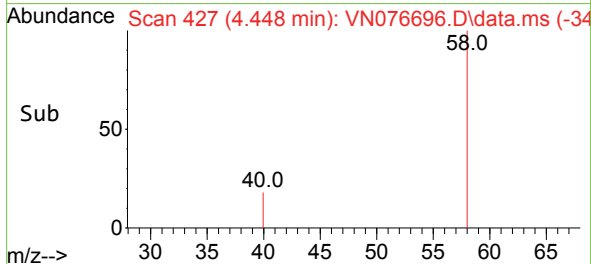
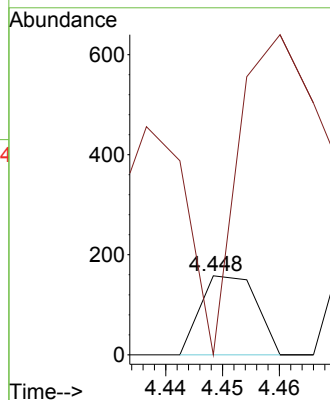
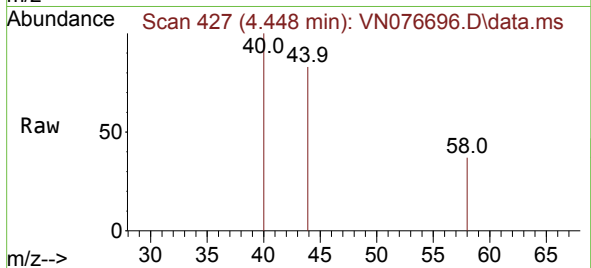
ClientSampleId :

Tgt Ion: 58 Resp: 109

Ion Ratio Lower Upper

58 100

43 0.0 255.4 383.0#



#18

Methylene Chloride

Concen: 0.582 ug/l

RT: 5.284 min Scan# 569

Delta R.T. -0.000 min

Lab File: VN076696.D

Acq: 15 Feb 2023 19:40

Tgt Ion: 84 Resp: 1731

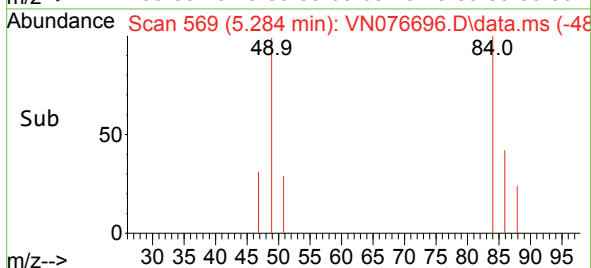
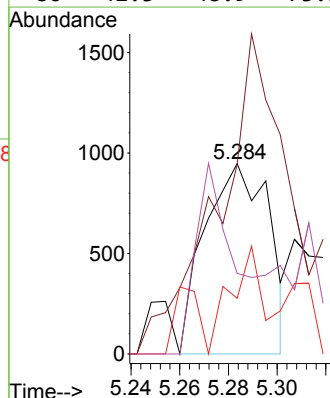
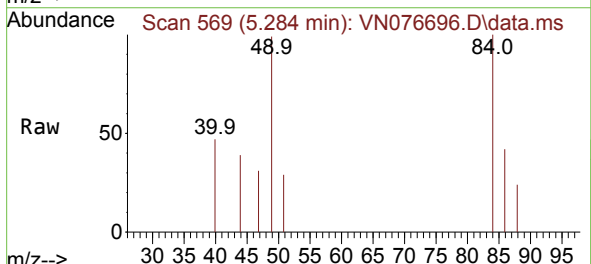
Ion Ratio Lower Upper

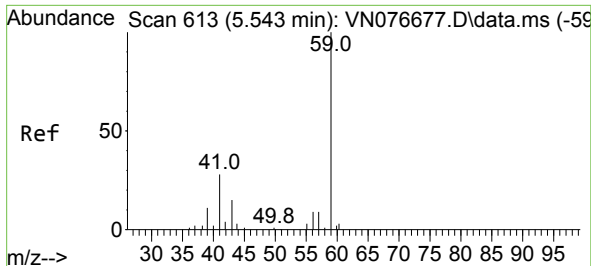
84 100

49 64.7 113.8 170.6#

51 6.7 34.2 51.4#

86 42.3 48.9 73.3#

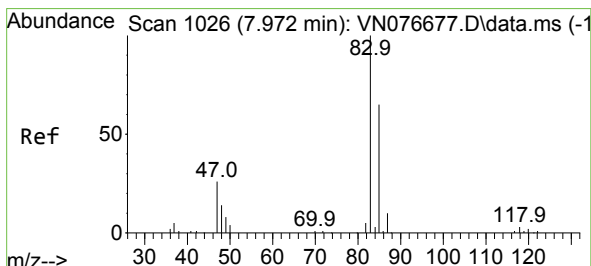
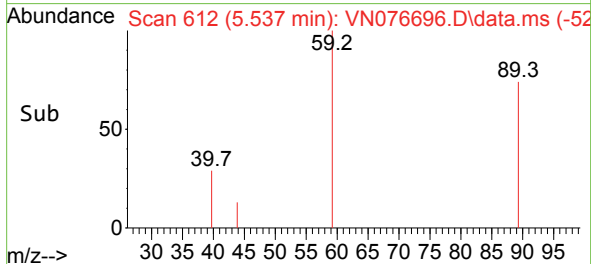
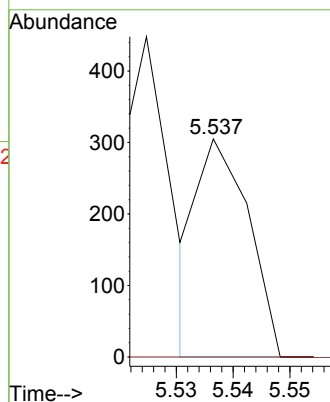
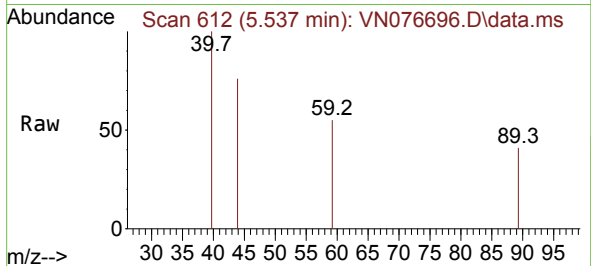




#23
tert-Butyl Alcohol
Concen: 0.430 ug/l
RT: 5.537 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

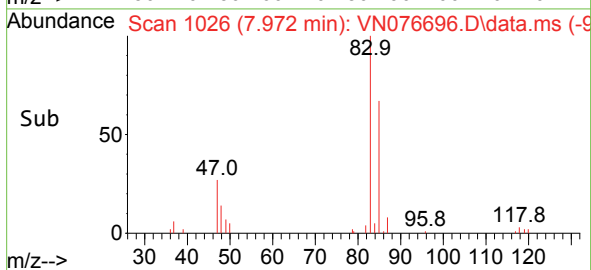
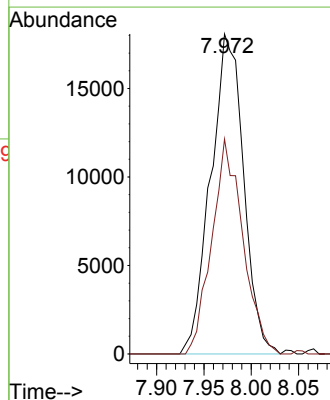
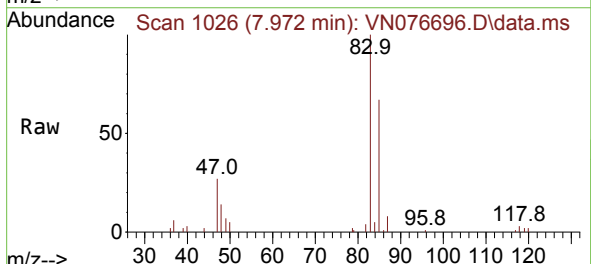
Instrument :
MSVOA_N
ClientSampleId :

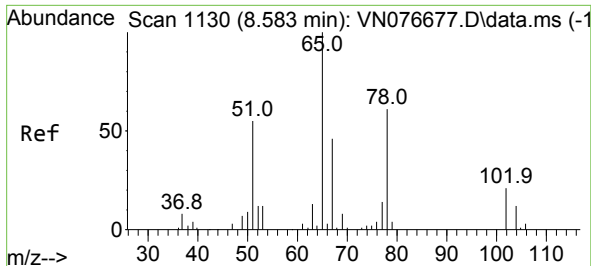
Tgt Ion: 59 Resp: 184
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 8.544 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

Tgt Ion: 83 Resp: 43694
Ion Ratio Lower Upper
83 100
85 67.2 51.8 77.6





#27

1,2-Dichloroethane-d4

Concen: 34.126 ug/l

RT: 8.589 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN076696.D

Acq: 15 Feb 2023 19:40

Instrument :

MSVOA_N

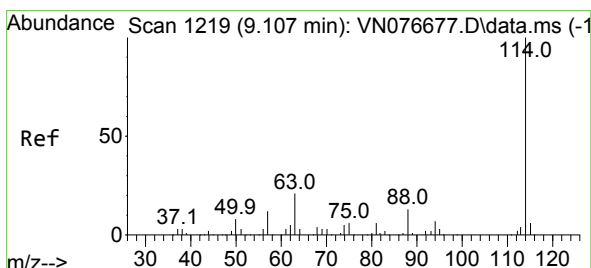
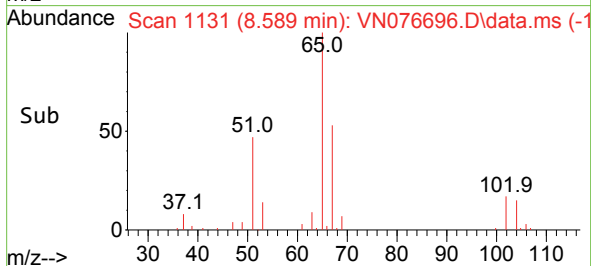
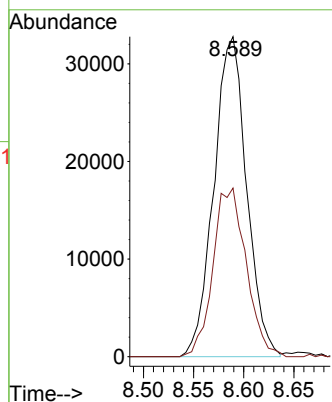
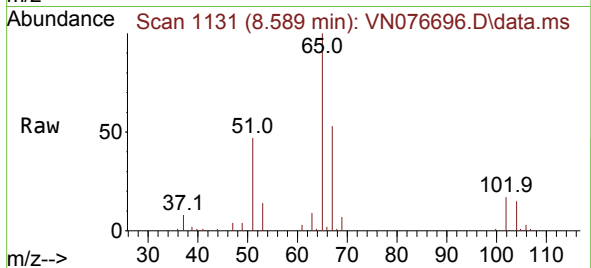
ClientSampleId :

Tgt Ion: 65 Resp: 74496

Ion Ratio Lower Upper

65 100

67 53.4 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076696.D

Acq: 15 Feb 2023 19:40

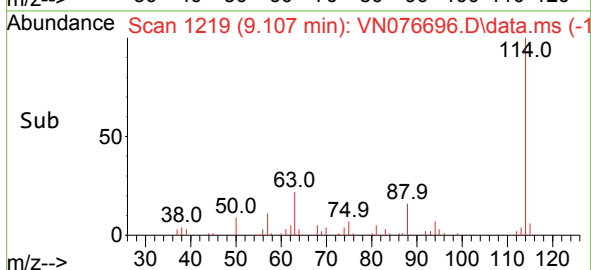
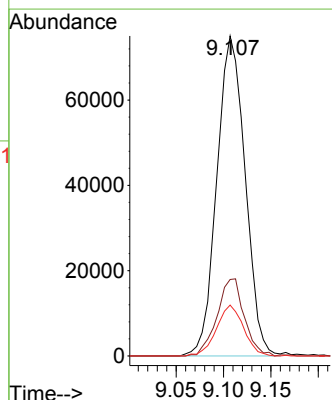
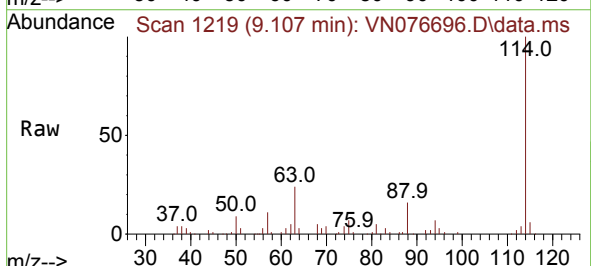
Tgt Ion: 114 Resp: 156191

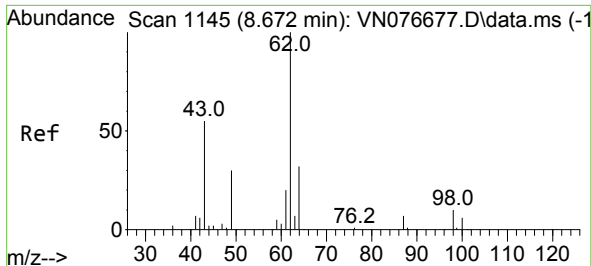
Ion Ratio Lower Upper

114 100

63 23.1 17.0 25.4

88 15.2 11.6 17.4





#36

1,2-Dichloroethane

Concen: 1.591 ug/l

RT: 9.107 min Scan# 1145

Delta R.T. 0.435 min

Lab File: VN076696.D

Acq: 15 Feb 2023 19:40

Instrument :

MSVOA_N

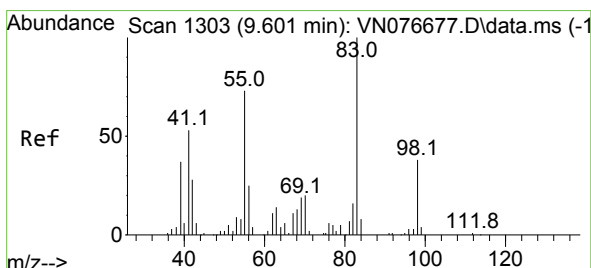
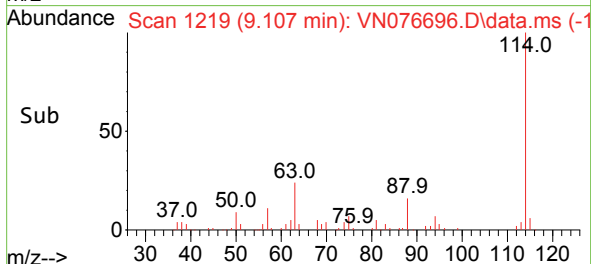
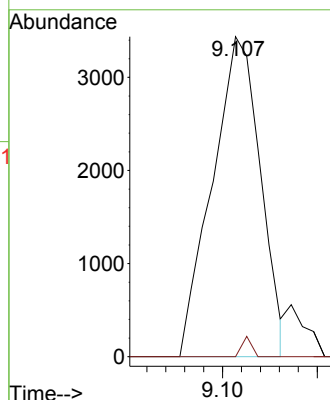
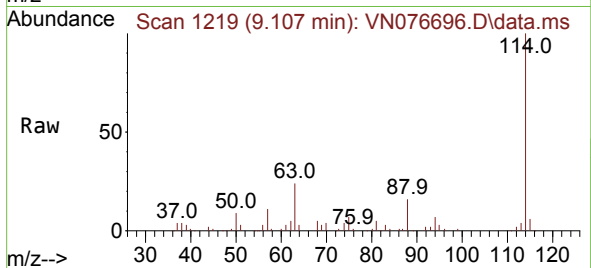
ClientSampleId :

Tgt Ion: 62 Resp: 6059

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#38

Methylcyclohexane

Concen: 1.414 ug/l

RT: 9.889 min Scan# 1352

Delta R.T. 0.288 min

Lab File: VN076696.D

Acq: 15 Feb 2023 19:40

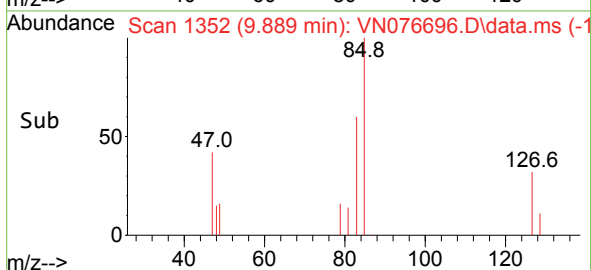
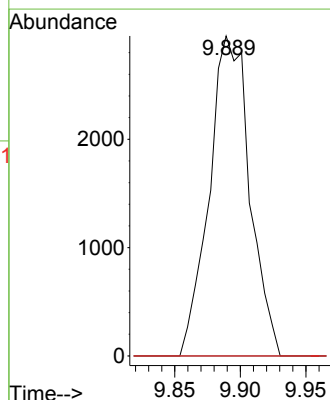
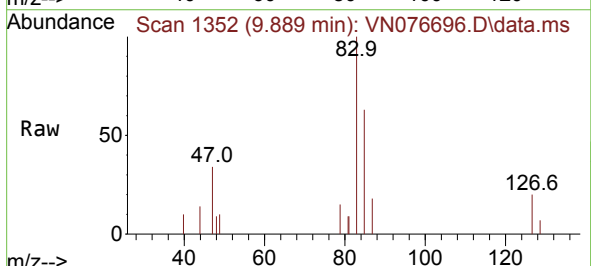
Tgt Ion: 83 Resp: 6339

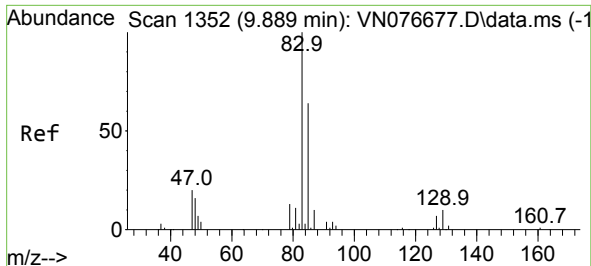
Ion Ratio Lower Upper

83 100

55 0.0 37.6 112.9#

98 0.0 24.1 72.4#

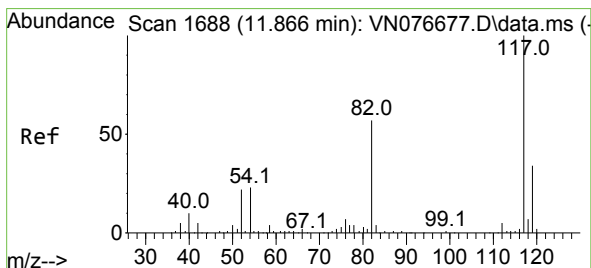
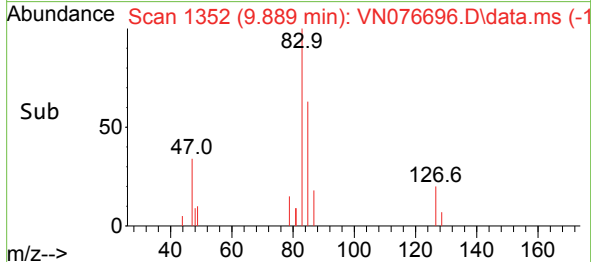
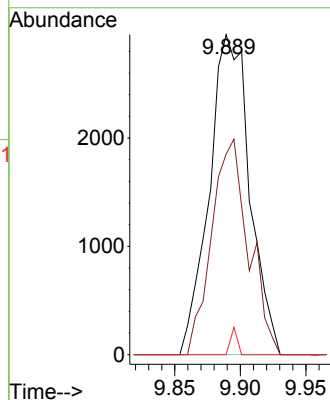
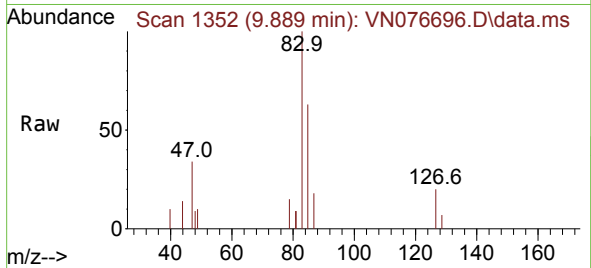




#41
Bromodichloromethane
Concen: 1.676 ug/l
RT: 9.889 min Scan# 1352
Delta R.T. -0.000 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

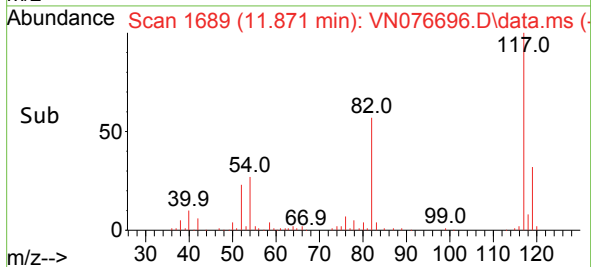
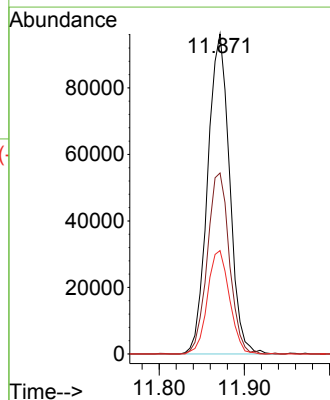
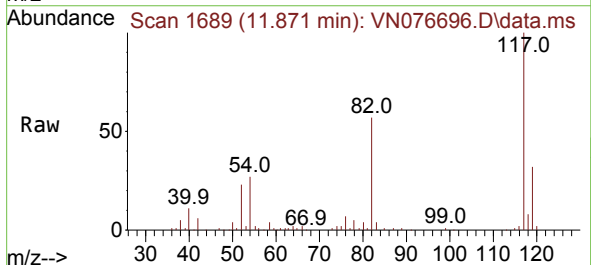
Instrument :
MSVOA_N
ClientSampleId :

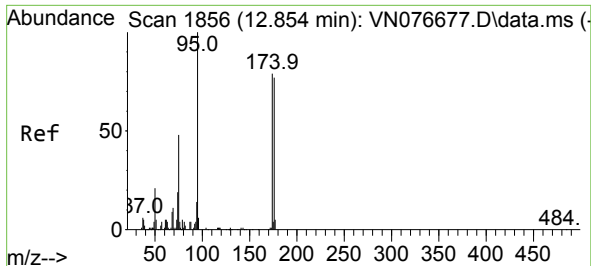
Tgt Ion: 83 Resp: 6339
Ion Ratio Lower Upper
83 100
85 62.6 51.0 76.4
127 0.0 6.2 9.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

Tgt Ion: 117 Resp: 171984
Ion Ratio Lower Upper
117 100
82 57.1 45.4 68.0
119 32.5 26.8 40.2

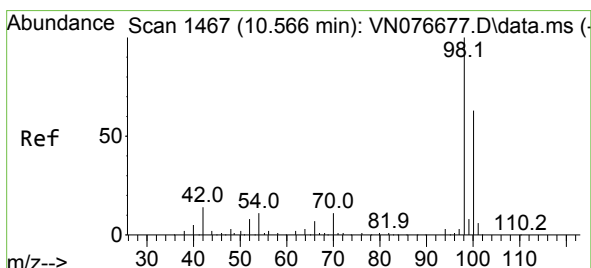
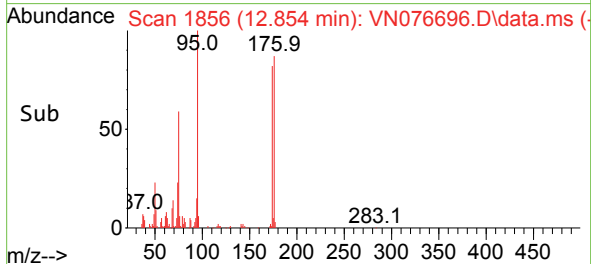
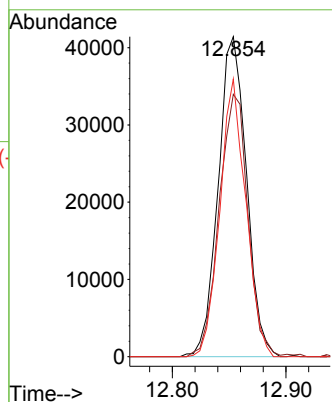
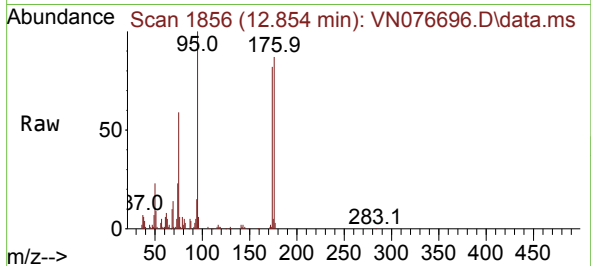




#60
4-Bromofluorobenzene
Concen: 23.554 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

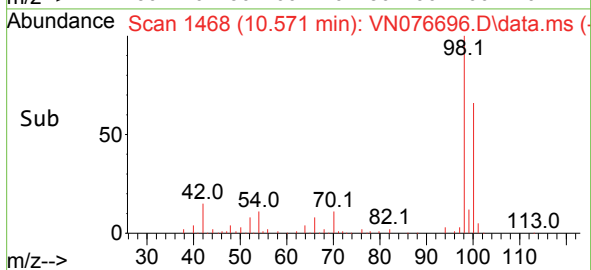
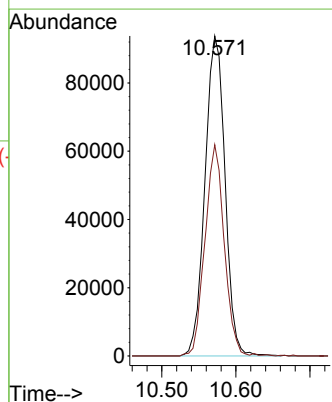
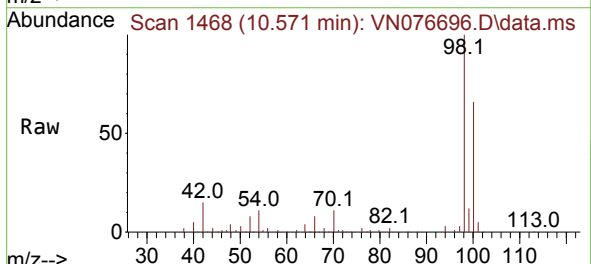
Instrument :
MSVOA_N
ClientSampleId :

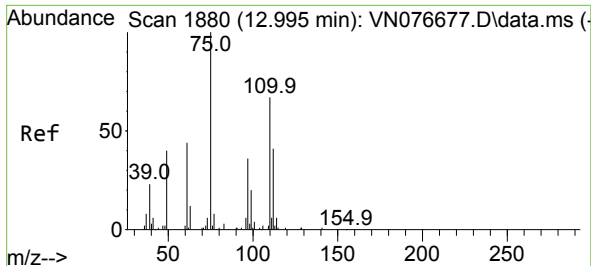
Tgt Ion: 95 Resp: 71653
Ion Ratio Lower Upper
95 100
174 83.2 64.2 96.4
176 79.6 61.4 92.0



#63
Toluene-d8
Concen: 29.230 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

Tgt Ion: 98 Resp: 176084
Ion Ratio Lower Upper
98 100
100 63.4 53.8 80.6

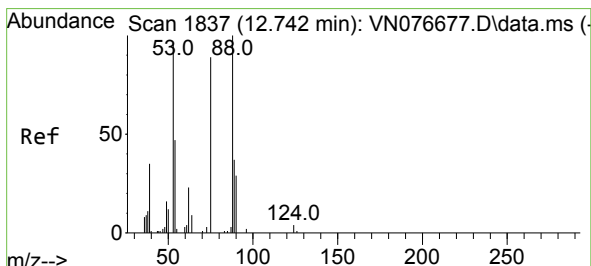
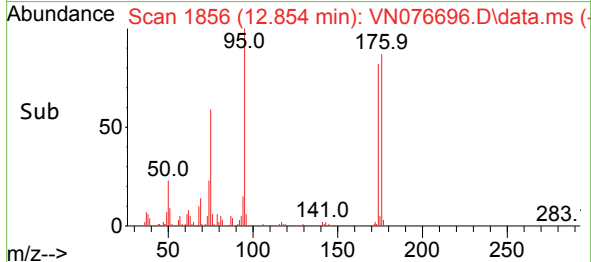
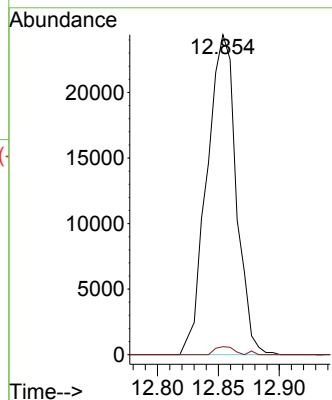
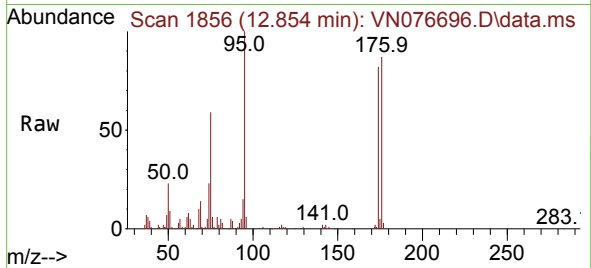




#72
1,2,3-Trichloropropane
Concen: 11.317 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

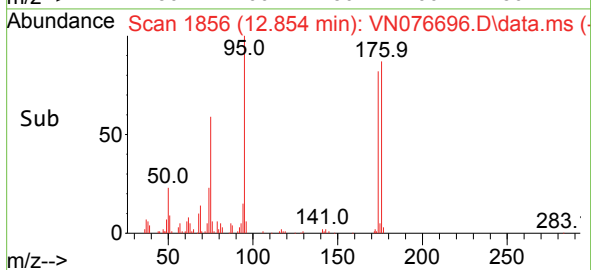
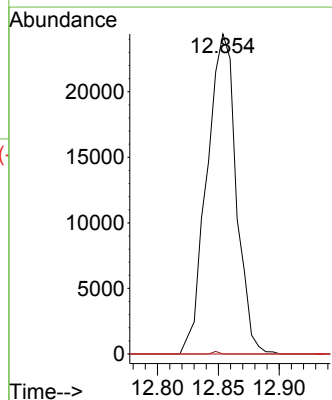
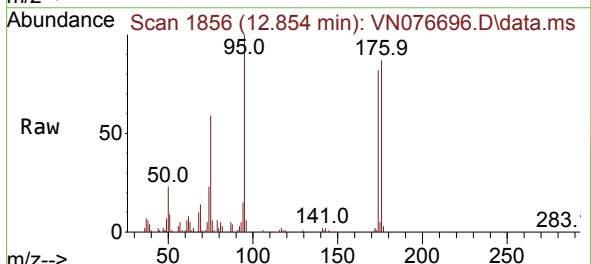
Instrument :
MSVOA_N
ClientSampleId :

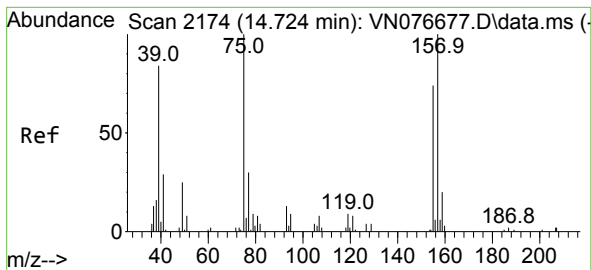
Tgt Ion: 75 Resp: 40971
Ion Ratio Lower Upper
75 100
77 1.6 0.0 332.6



#77
t-1,4-Dichloro-2-butene
Concen: 35.223 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN076696.D
Acq: 15 Feb 2023 19:40

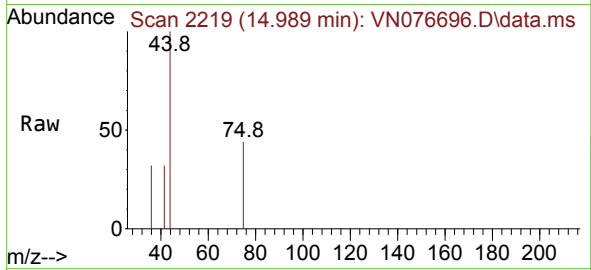
Tgt Ion: 75 Resp: 40971
Ion Ratio Lower Upper
75 100
53 0.0 50.4 151.3#
89 0.0 22.1 66.5#





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.219 ug/l
 RT: 14.989 min Scan# 2174
 Delta R.T. 0.265 min
 Lab File: VN076696.D
 Acq: 15 Feb 2023 19:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 167
 Ion Ratio Lower Upper
 75 100
 155 0.0 62.5 93.7#
 157 0.0 77.5 116.3#

