

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076611.D
 Acq On : 10 Feb 2023 15:57
 Operator : JC\MD
 Sample : 01469-02 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2

Quant Time: Feb 11 00:57:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

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

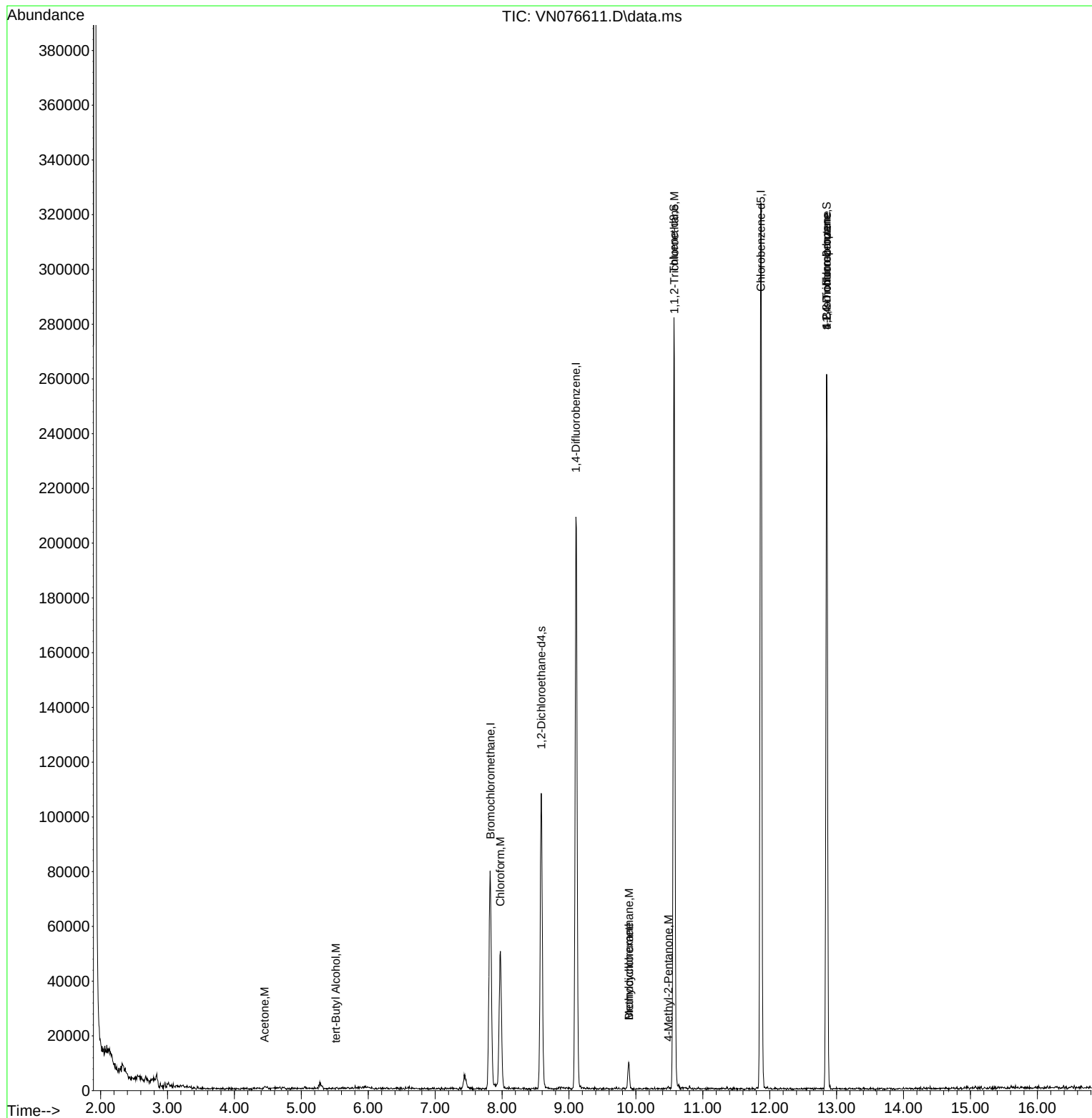
Internal Standards						
1) Bromochloromethane	7.828	128	24478	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	164057	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.868	117	169140	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	90875	31.499	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.000%
60) 4-Bromofluorobenzene	12.851	95	87963	23.036	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.800%
63) Toluene-d8	10.569	98	179762	28.945	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.500%
Target Compounds						
					Qvalue	
15) Acetone	4.451	58	161	0.332	ug/l #	1
23) tert-Butyl Alcohol	5.516	59	216	0.383	ug/l #	100
25) Chloroform	7.975	83	48332	7.450	ug/l	89
38) Methylcyclohexane	9.898	83	6785	1.444	ug/l #	18
41) Bromodichloromethane	9.898	83	6785	1.575	ug/l #	94
50) 1,1,2-Trichloroethane	10.574	97	5960	2.142	ug/l #	1
58) 4-Methyl-2-Pentanone	10.486	43	1036	0.219	ug/l #	44
72) 1,2,3-Trichloropropane	12.851	75	53749	12.395	ug/l	1
77) t-1,4-Dichloro-2-butene	12.851	75	53749	41.094	ug/l #	15

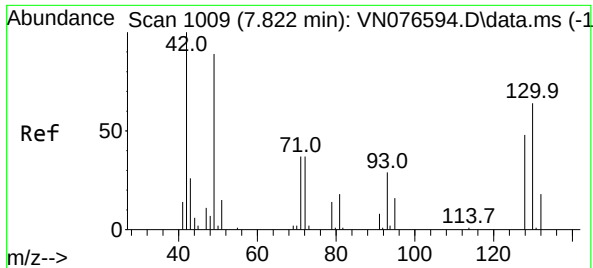
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 11 00:57:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 10 05:40:47 2023
Response via : Initial Calibration

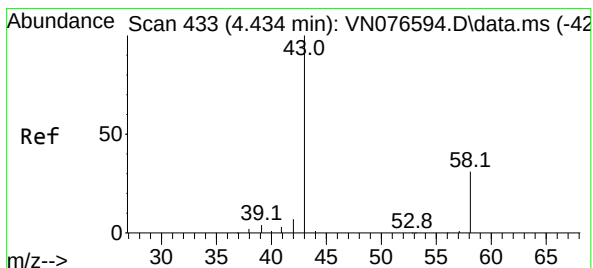
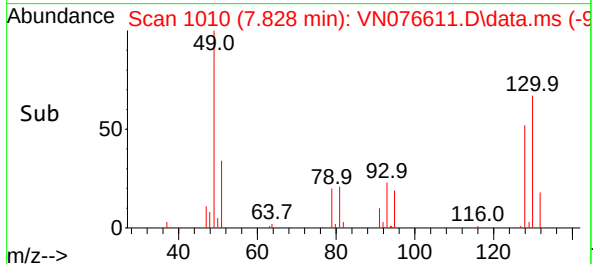
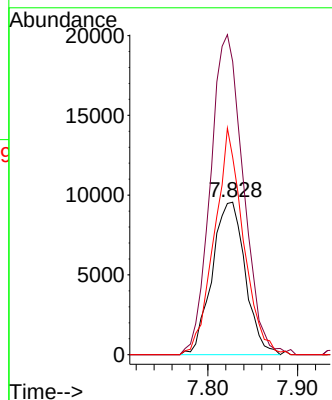
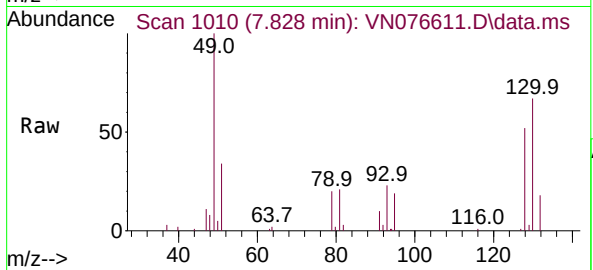




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.828 min Scan# 1009
Delta R.T. -0.002 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

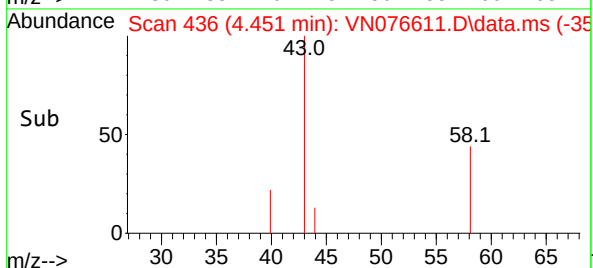
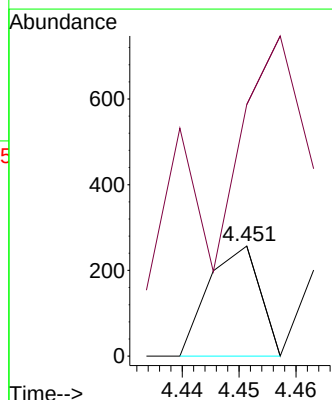
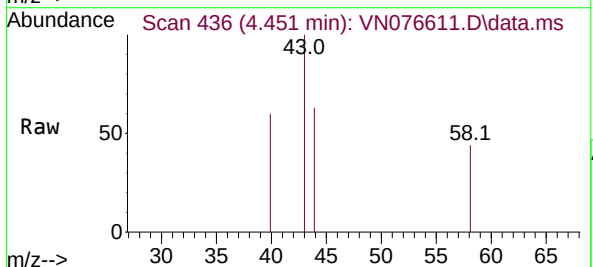
Instrument :
MSVOA_N
ClientSampleId :
14B-2

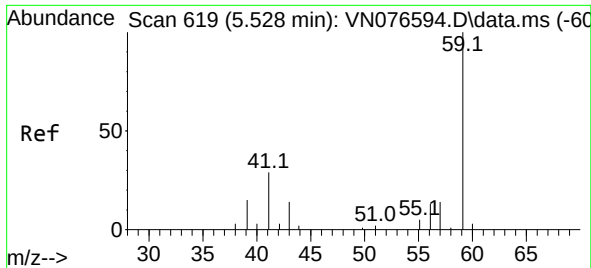
Tgt Ion:128 Resp: 24478
Ion Ratio Lower Upper
128 100
49 208.6 0.0 492.0
130 129.7 0.0 313.3



#15
Acetone
Concen: 0.332 ug/l
RT: 4.451 min Scan# 436
Delta R.T. -0.002 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

Tgt Ion: 58 Resp: 161
Ion Ratio Lower Upper
58 100
43 21.4 232.2 348.4#

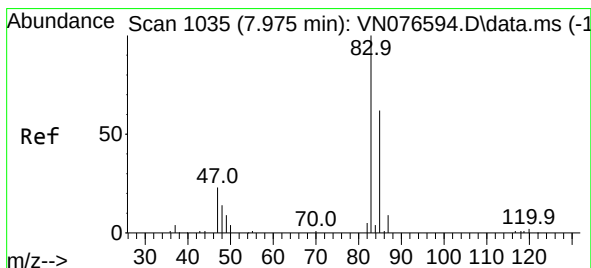
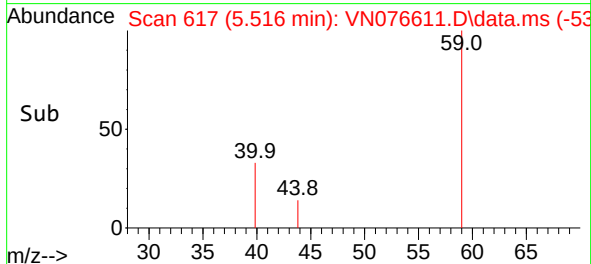
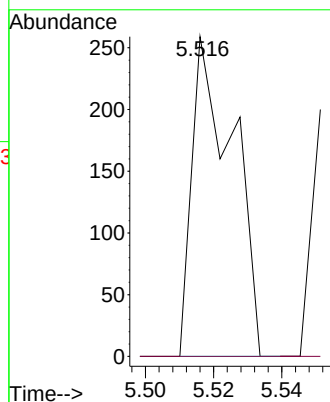
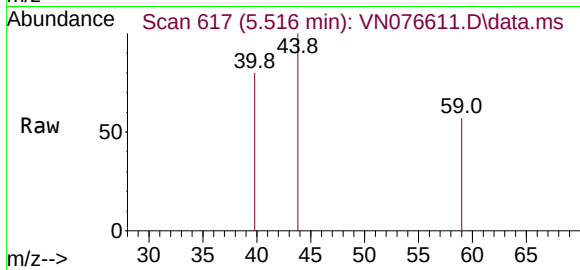




#23
tert-Butyl Alcohol
Concen: 0.383 ug/l
RT: 5.516 min Scan# 617
Delta R.T. -0.043 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

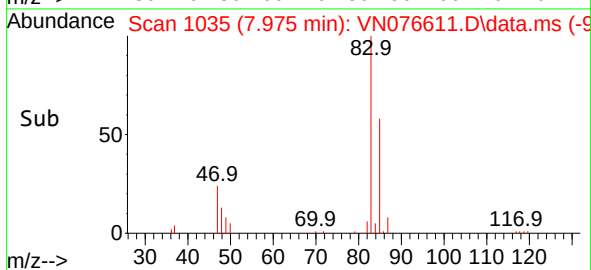
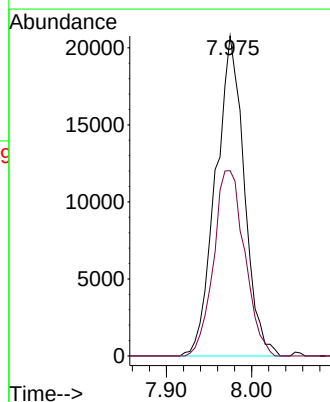
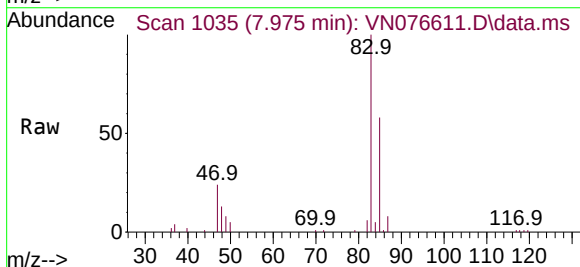
Instrument :
MSVOA_N
ClientSampleId :
14B-2

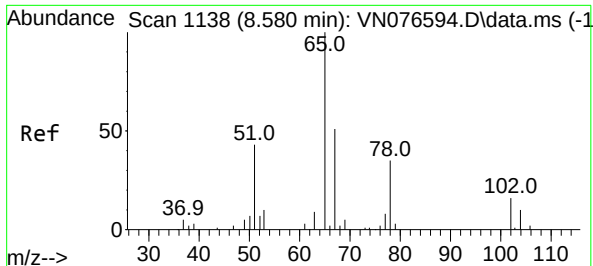
Tgt Ion: 59 Resp: 216
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.4#



#25
Chloroform
Concen: 7.450 ug/l
RT: 7.975 min Scan# 1035
Delta R.T. -0.002 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

Tgt Ion: 83 Resp: 48332
Ion Ratio Lower Upper
83 100
85 57.9 53.6 80.4





#27

1,2-Dichloroethane-d4

Concen: 31.499 ug/l

RT: 8.586 min Scan# 1139

Delta R.T. -0.002 min

Lab File: VN076611.D

Acq: 10 Feb 2023 15:57

Instrument :

MSVOA_N

ClientSampleId :

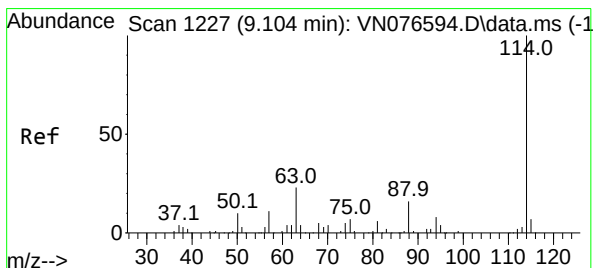
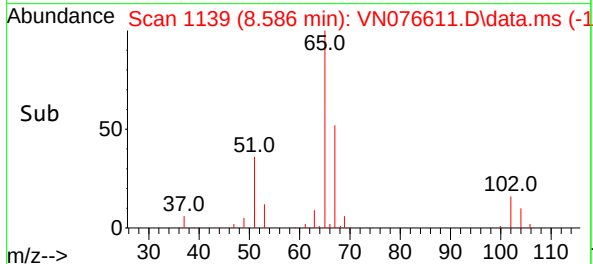
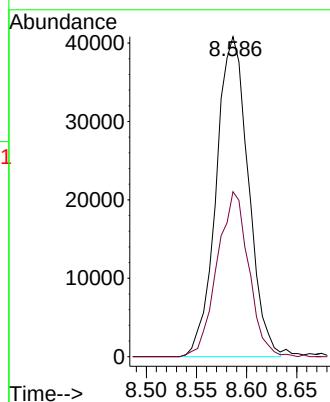
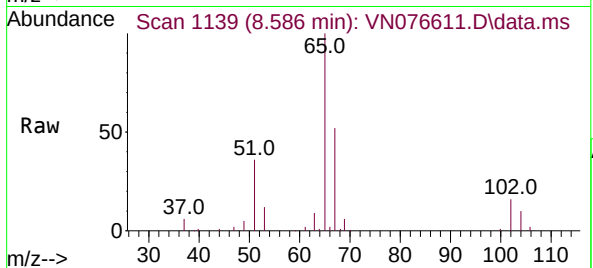
14B-2

Tgt Ion: 65 Resp: 90875

Ion Ratio Lower Upper

65 100

67 50.3 45.2 67.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.104 min Scan# 1227

Delta R.T. -0.002 min

Lab File: VN076611.D

Acq: 10 Feb 2023 15:57

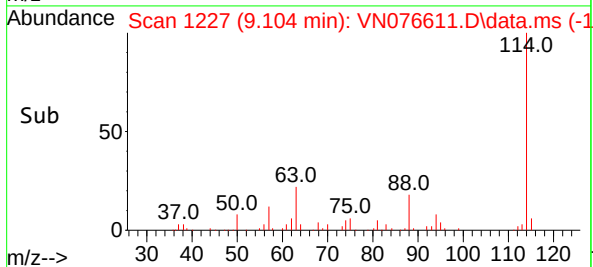
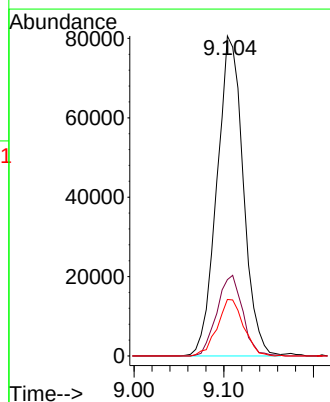
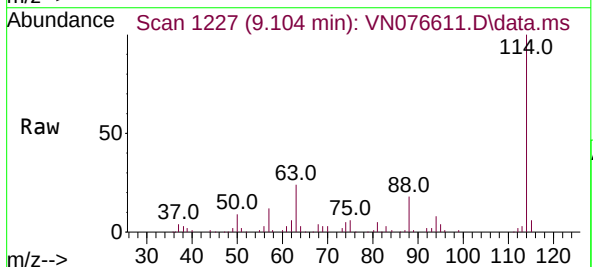
Tgt Ion: 114 Resp: 164057

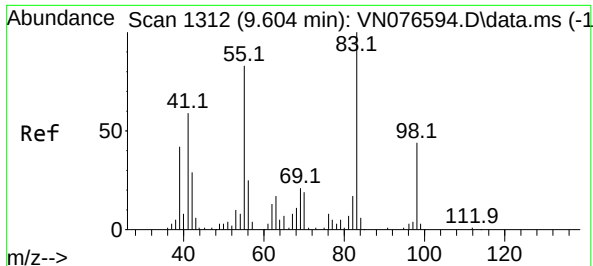
Ion Ratio Lower Upper

114 100

63 24.7 16.6 25.0

88 17.6 12.2 18.4





#38

Methylcyclohexane

Concen: 1.444 ug/l

RT: 9.898 min Scan# 1362

Delta R.T. 0.292 min

Lab File: VN076611.D

Acq: 10 Feb 2023 15:57

Instrument :

MSVOA_N

ClientSampleId :

14B-2

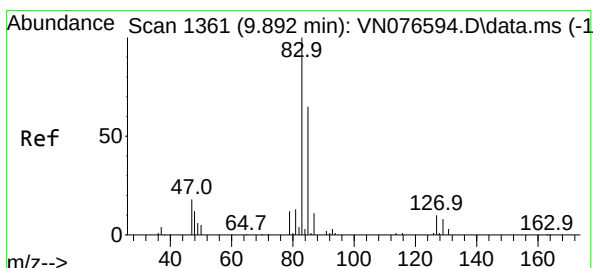
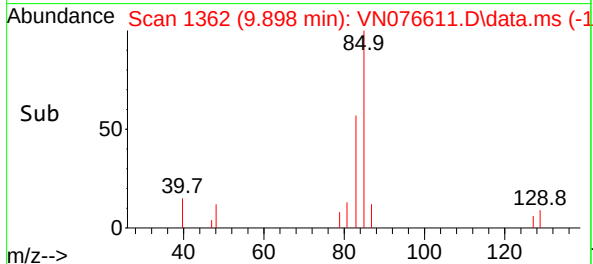
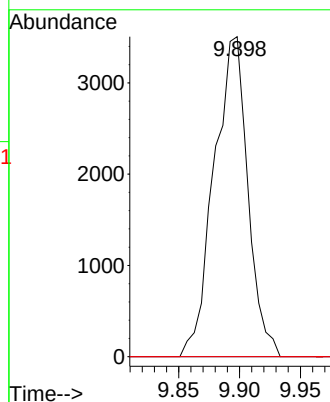
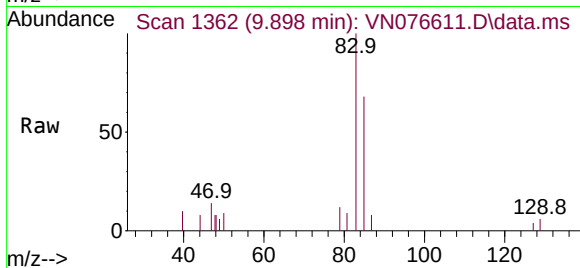
Tgt Ion: 83 Resp: 6785

Ion Ratio Lower Upper

83 100

55 0.0 37.4 112.2#

98 0.0 24.5 73.5#



#41

Bromodichloromethane

Concen: 1.575 ug/l

RT: 9.898 min Scan# 1362

Delta R.T. 0.010 min

Lab File: VN076611.D

Acq: 10 Feb 2023 15:57

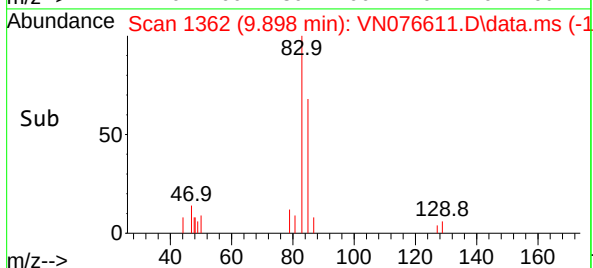
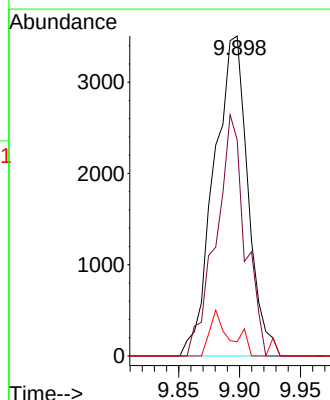
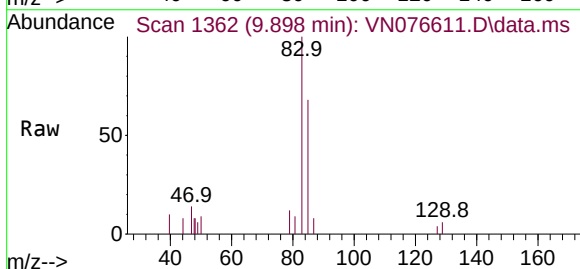
Tgt Ion: 83 Resp: 6785

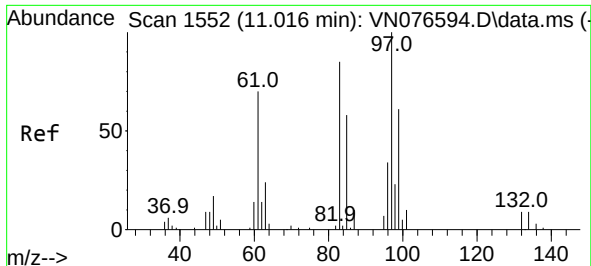
Ion Ratio Lower Upper

83 100

85 67.6 50.2 75.4

127 4.4 5.1 7.7#





#50

1,1,2-Trichloroethane

Concen: 2.142 ug/l

RT: 10.574 min Scan# 1477

Delta R.T. -0.444 min

Lab File: VN076611.D

Acq: 10 Feb 2023 15:57

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion: 97 Resp: 5960

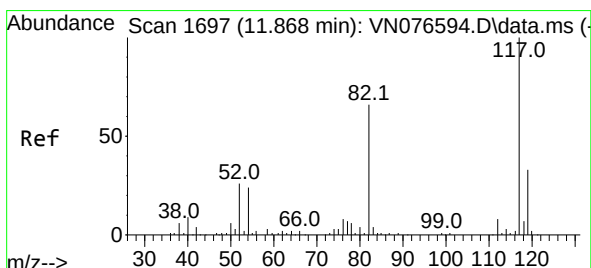
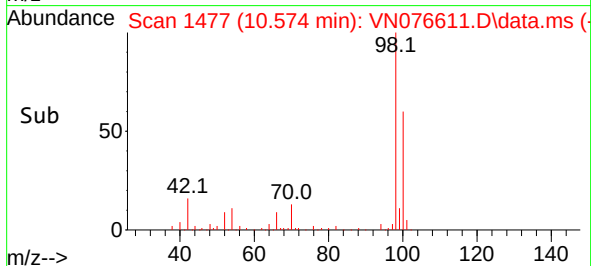
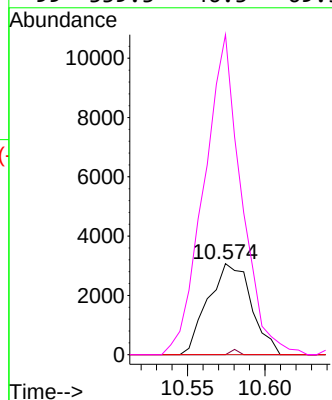
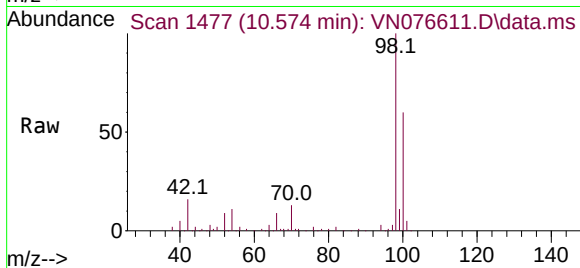
Ion Ratio Lower Upper

97 100

83 0.0 69.2 103.8#

85 0.0 41.4 62.2#

99 339.3 46.3 69.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.868 min Scan# 1697

Delta R.T. -0.003 min

Lab File: VN076611.D

Acq: 10 Feb 2023 15:57

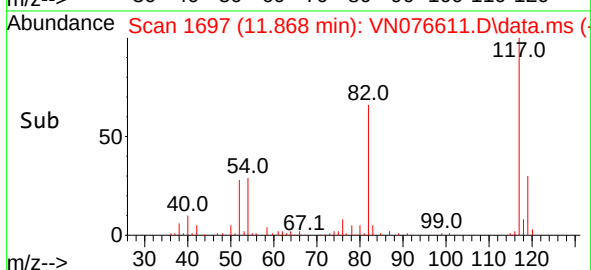
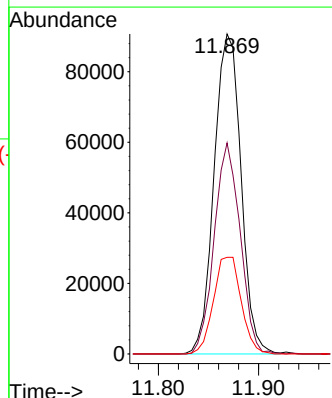
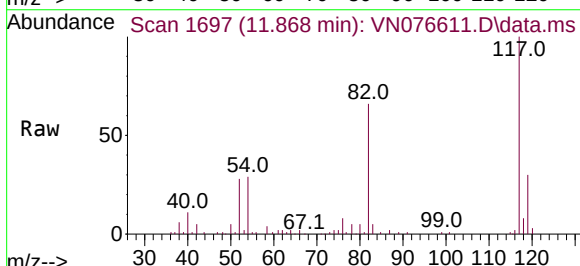
Tgt Ion: 117 Resp: 169140

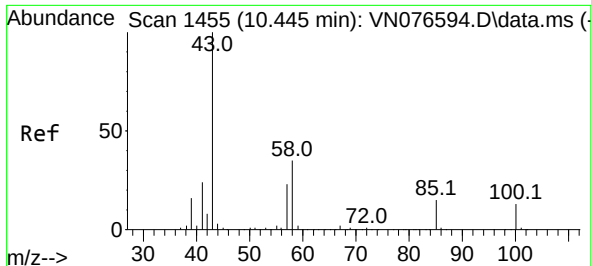
Ion Ratio Lower Upper

117 100

82 63.3 44.6 67.0

119 31.2 25.6 38.4

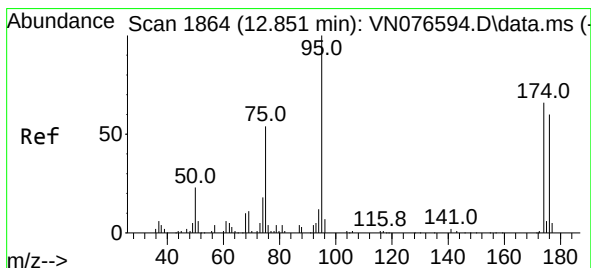
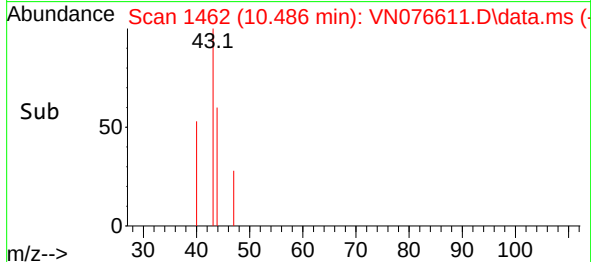
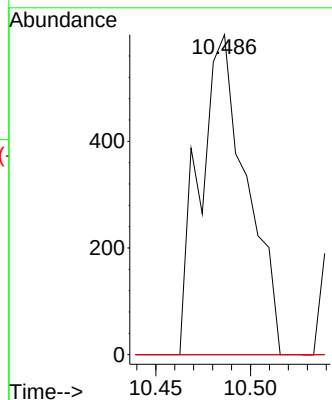
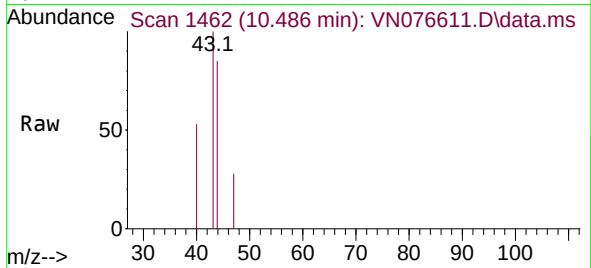




#58
4-Methyl-2-Pentanone
Concen: 0.219 ug/l
RT: 10.486 min Scan# 1455
Delta R.T. 0.039 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

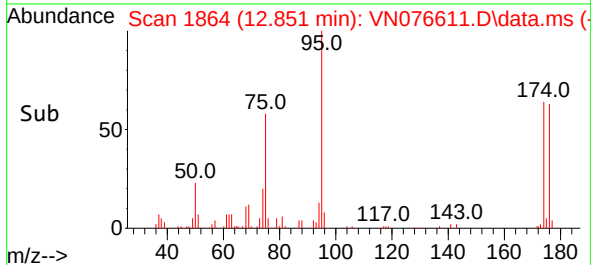
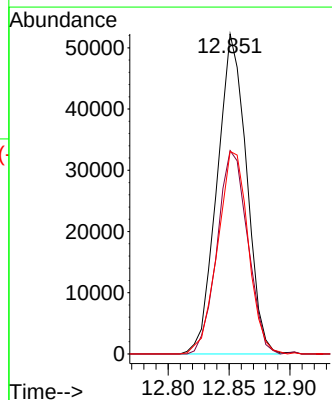
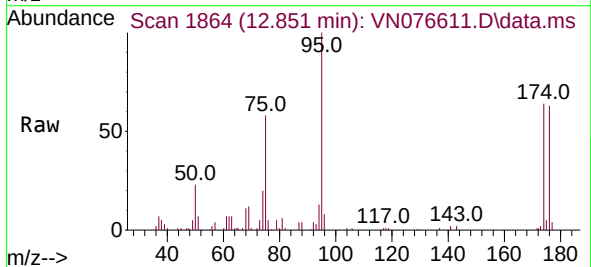
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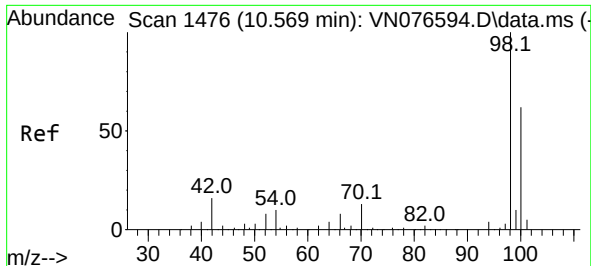
Tgt Ion: 43 Resp: 1036
Ion Ratio Lower Upper
43 100
58 0.0 30.8 46.2#
85 0.0 13.3 19.9#



#60
4-Bromofluorobenzene
Concen: 23.036 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.002 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

Tgt Ion: 95 Resp: 87963
Ion Ratio Lower Upper
95 100
174 65.8 57.8 86.8
176 65.8 57.0 85.4

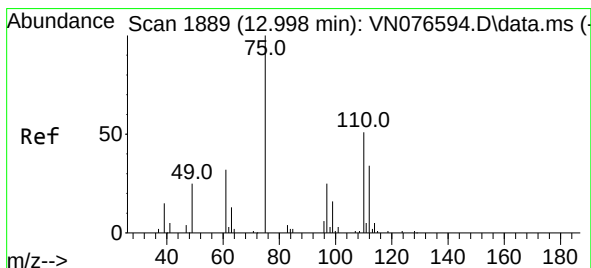
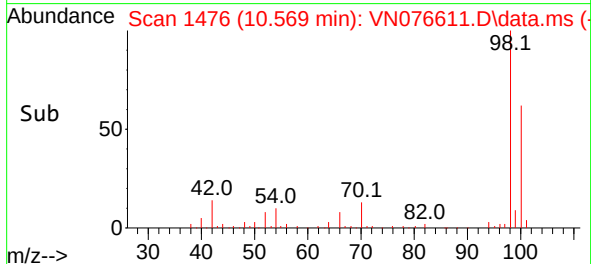
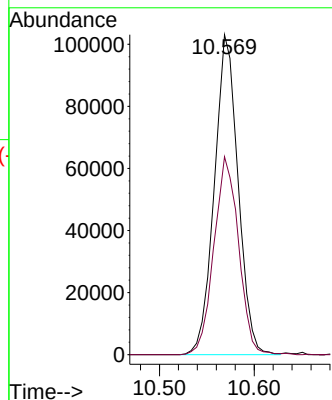
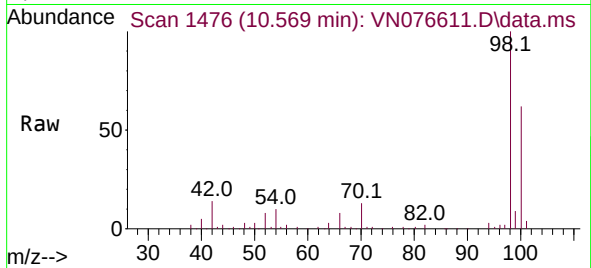




#63
Toluene-d8
Concen: 28.945 ug/l
RT: 10.569 min Scan# 1476
Delta R.T. -0.002 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

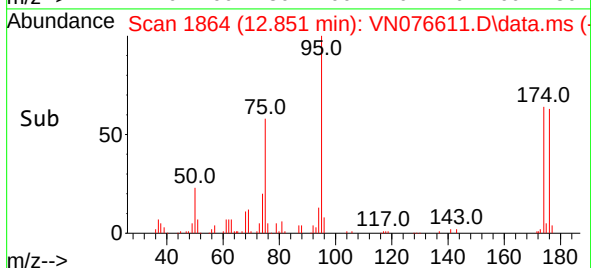
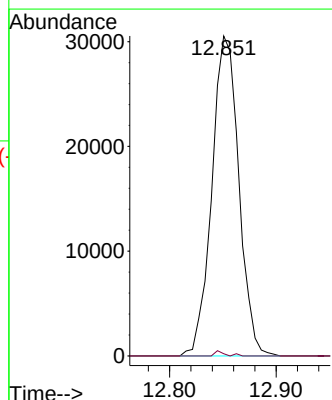
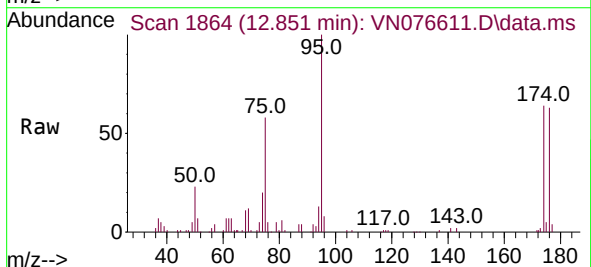
Instrument :
MSVOA_N
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14B-2

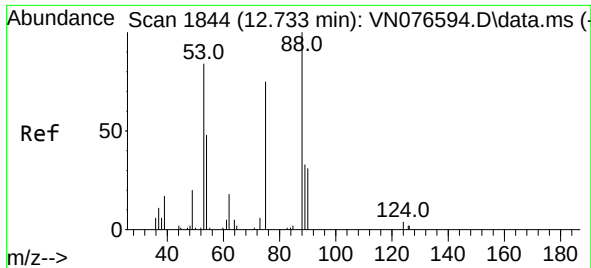
Tgt Ion: 98 Resp: 179762
Ion Ratio Lower Upper
98 100
100 64.0 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 12.395 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.143 min
Lab File: VN076611.D
Acq: 10 Feb 2023 15:57

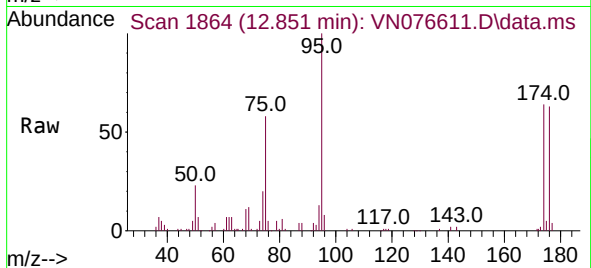
Tgt Ion: 75 Resp: 53749
Ion Ratio Lower Upper
75 100
77 0.5 0.0 372.4





#77
 t-1,4-Dichloro-2-butene
 Concen: 41.094 ug/l
 RT: 12.851 min Scan# 11
 Delta R.T. 0.116 min
 Lab File: VN076611.D
 Acq: 10 Feb 2023 15:57

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2



Tgt Ion: 75 Resp: 53749
 Ion Ratio Lower Upper
 75 100
 53 0.0 43.3 129.9#
 89 0.0 21.1 63.1#

