

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076615.D
 Acq On : 10 Feb 2023 17:33
 Operator : JC\MD
 Sample : 01500-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

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

Quant Time: Feb 11 00:58:35 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

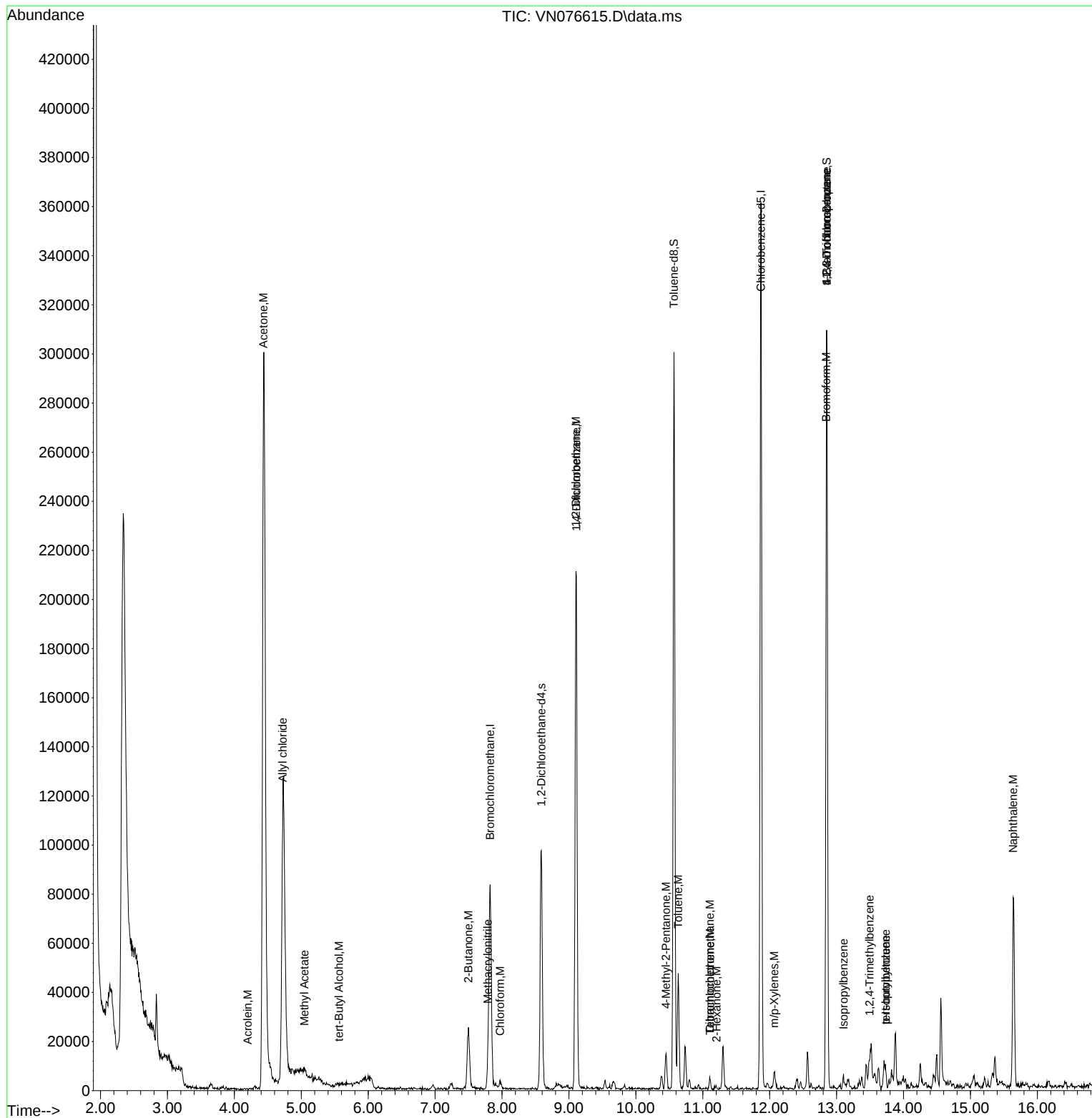
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.822	128	26849	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.110	114	176962	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	195385	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.587	65	82125	25.952	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	86.500%#
60) 4-Bromofluorobenzene	12.851	95	109869	24.908	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.033%
63) Toluene-d8	10.569	98	199718	27.839	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	92.800%
Target Compounds						
					Qvalue	
6) Chloroethane	3.128	64	1355	Below Cal	#	48
12) Methyl Acetate	5.046	43	3416	0.543	ug/l	100
13) Acrolein	4.199	56	338	0.420	ug/l #	15
15) Acetone	4.434	58	174448	327.916	ug/l	80
17) Allyl chloride	4.722	41	9912	1.716	ug/l	89
23) tert-Butyl Alcohol	5.563	59	242	0.391	ug/l #	100
25) Chloroform	7.969	83	1554	0.218	ug/l	90
30) 2-Butanone	7.498	43	40214	16.265	ug/l	98
35) Methacrylonitrile	7.787	41	1555	0.547	ug/l #	31
36) 1,2-Dichloroethane	9.104	62	7955	1.474	ug/l #	74
53) Dibromochloromethane	11.104	129	817	0.262	ug/l #	9
56) Bromoform	12.845	173	618	0.308	ug/l #	35
58) 4-Methyl-2-Pentanone	10.451	43	9793	1.793	ug/l	98
59) 2-Hexanone	11.204	43	1023	0.258	ug/l #	42
61) Tetrachloroethene	11.110	164	839	0.336	ug/l #	69
62) Toluene	10.633	91	32221	2.224	ug/l	99
67) m/p-Xylenes	12.069	106	1981	0.332	ug/l	91
70) Isopropylbenzene	13.104	105	4402	0.280	ug/l	90
72) 1,2,3-Trichloropropane	12.851	75	59062	11.791	ug/l	1
77) t-1,4-Dichloro-2-butene	12.851	75	59062	39.091	ug/l #	15
79) tert-butylbenzene	13.733	119	4117	0.330	ug/l	62
80) 1,2,4-Trimethylbenzene	13.492	105	7480	0.516	ug/l	78
82) p-Isopropyltoluene	13.733	119	4117	0.293	ug/l	94
91) Naphthalene	15.639	128	69907	6.482	ug/l	100

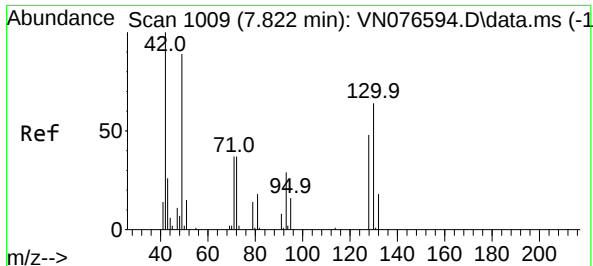
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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002-35TH-AVE(FEB)

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 10 05:40:47 2023
Response via : Initial Calibration

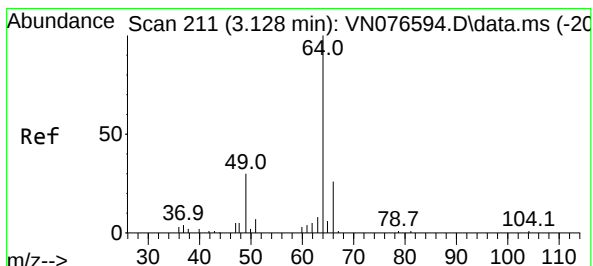
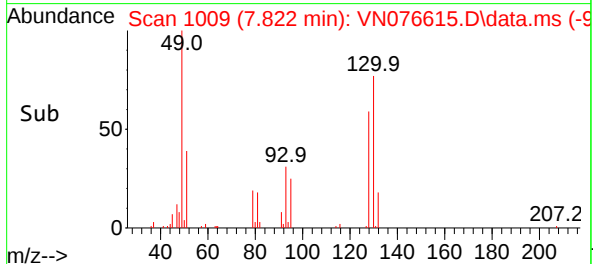
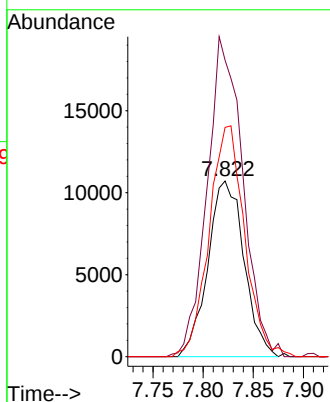
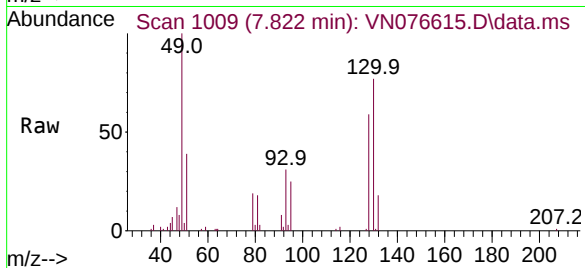




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.822 min Scan# 1009
Delta R.T. -0.008 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

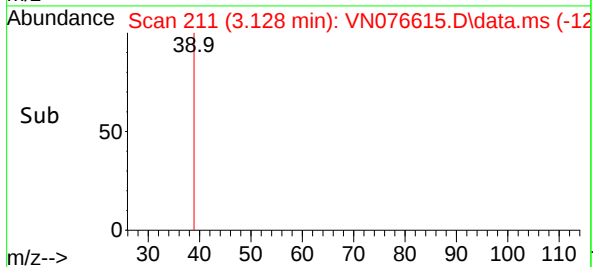
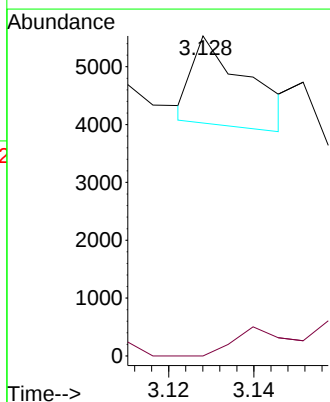
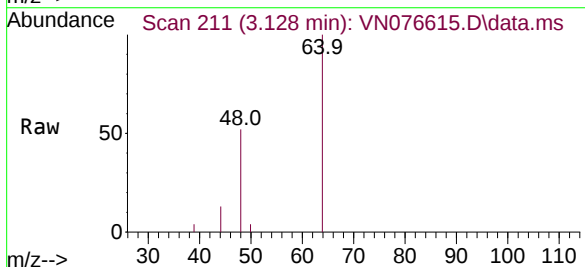
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

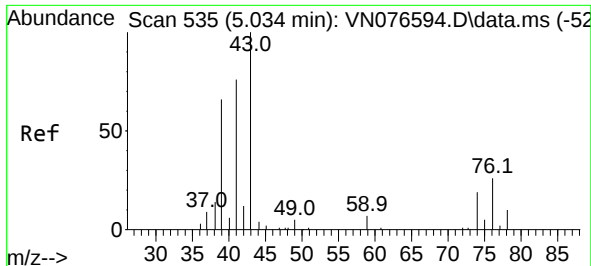
Tgt Ion:128 Resp: 26849
Ion Ratio Lower Upper
128 100
49 179.2 0.0 492.0
130 129.4 0.0 313.3



#6
Chloroethane
Concen: Below Cal
RT: 3.128 min Scan# 211
Delta R.T. 0.004 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion: 64 Resp: 1355
Ion Ratio Lower Upper
64 100
66 0.0 21.8 32.8#

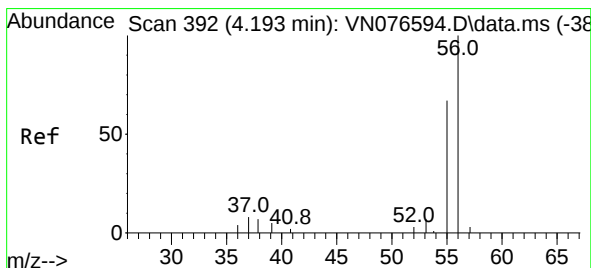
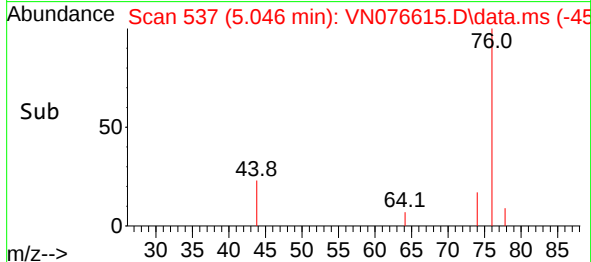
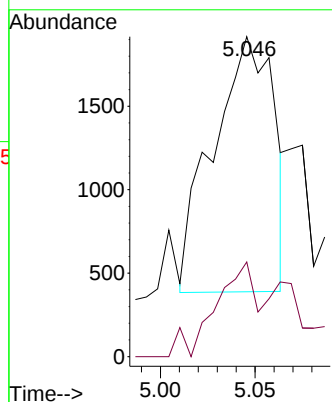
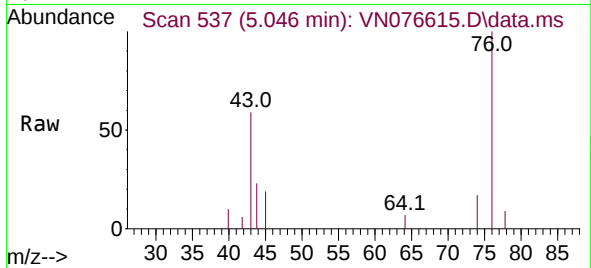




#12
Methyl Acetate
Concen: 0.543 ug/l
RT: 5.046 min Scan# 51
Delta R.T. -0.002 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

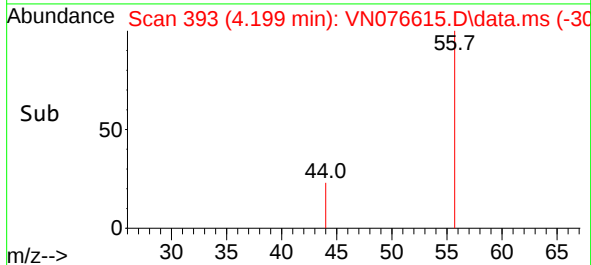
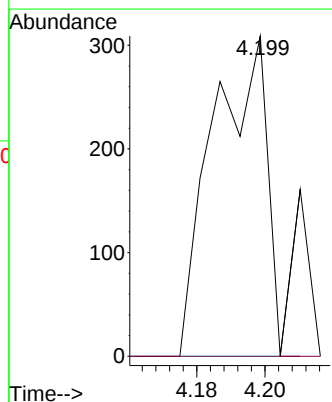
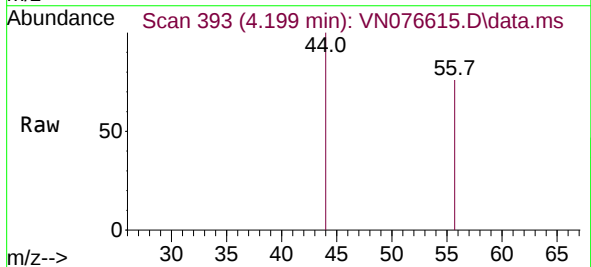
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

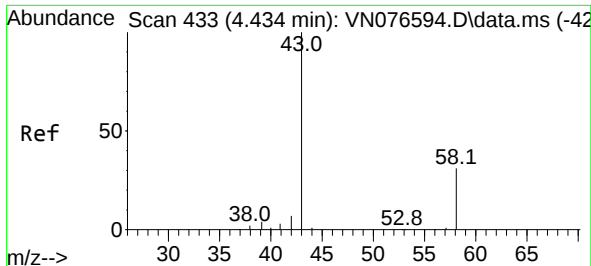
Tgt Ion: 43 Resp: 3416
Ion Ratio Lower Upper
43 100
74 23.6 19.0 28.6



#13
Acrolein
Concen: 0.420 ug/l
RT: 4.199 min Scan# 393
Delta R.T. -0.007 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion: 56 Resp: 338
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.2#





#15

Acetone

Concen: 327.916 ug/l

RT: 4.434 min Scan# 41

Delta R.T. -0.019 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

Instrument :

MSVOA_N

ClientSampleId :

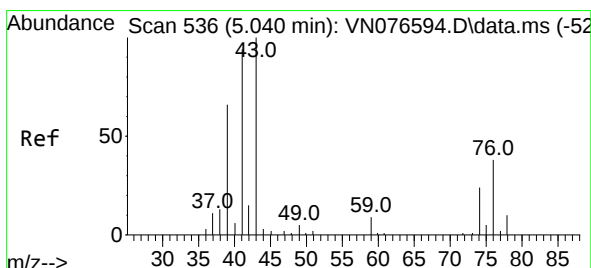
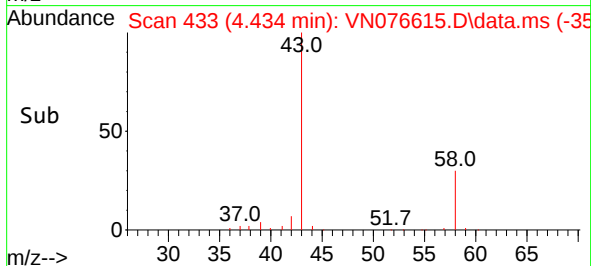
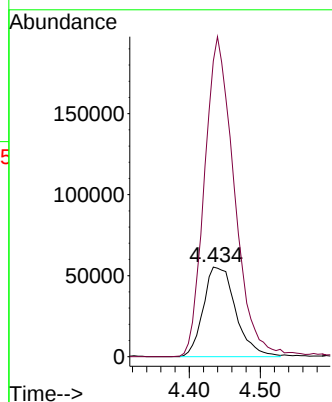
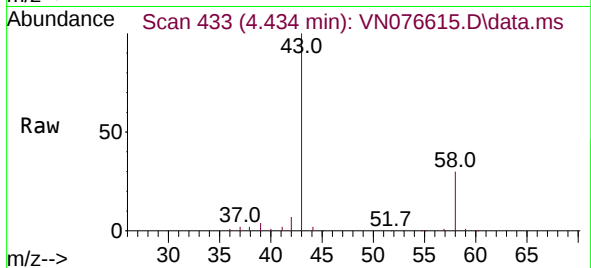
002-35TH-AVE(FEB)

Tgt Ion: 58 Resp: 174448

Ion Ratio Lower Upper

58 100

43 329.3 232.2 348.4



#17

Allyl chloride

Concen: 1.716 ug/l

RT: 4.722 min Scan# 482

Delta R.T. -0.320 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

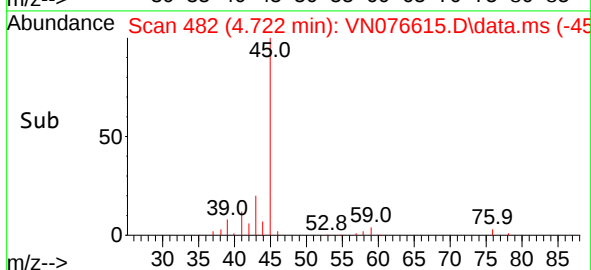
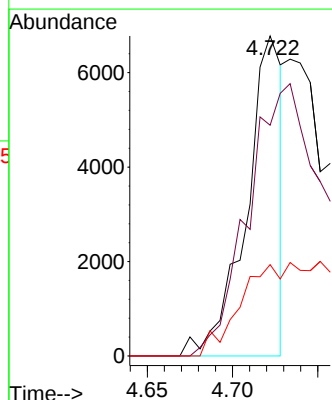
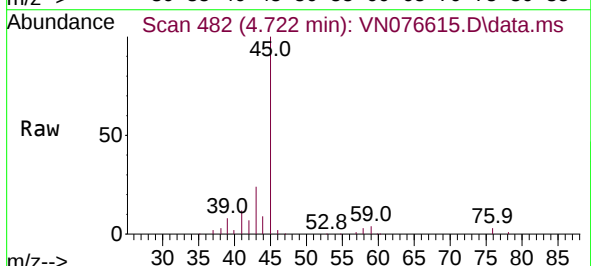
Tgt Ion: 41 Resp: 9912

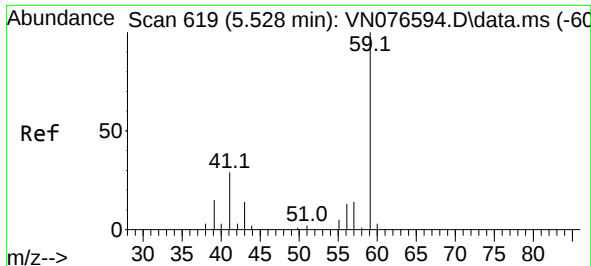
Ion Ratio Lower Upper

41 100

39 72.1 39.1 117.5

76 28.6 19.8 59.4

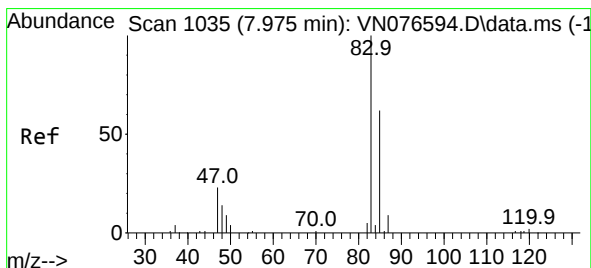
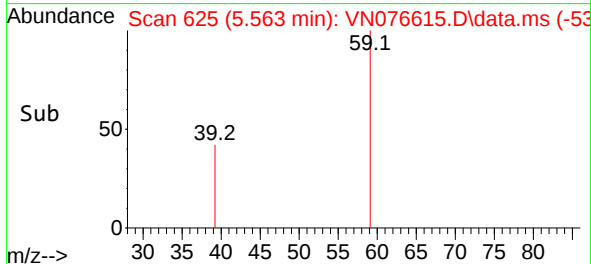
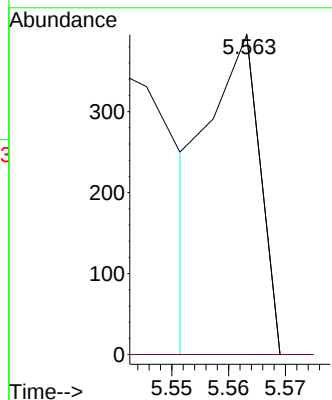
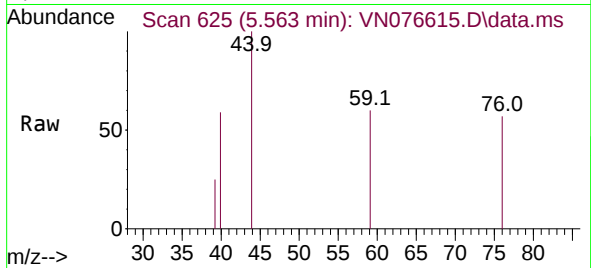




#23
tert-Butyl Alcohol
Concen: 0.391 ug/l
RT: 5.563 min Scan# 619
Delta R.T. 0.004 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

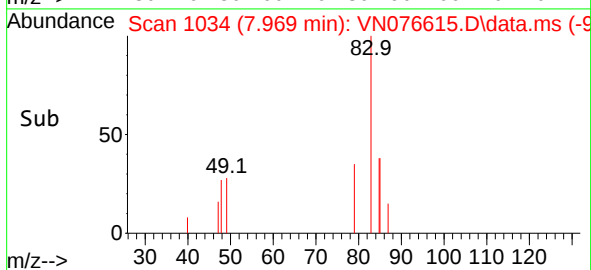
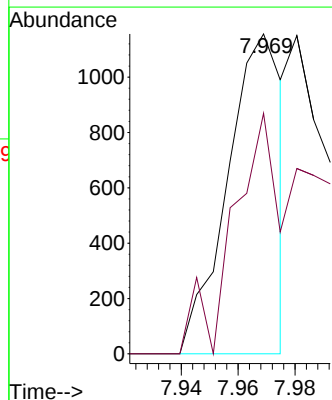
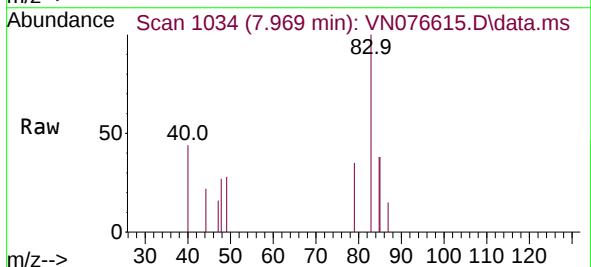
Instrument :
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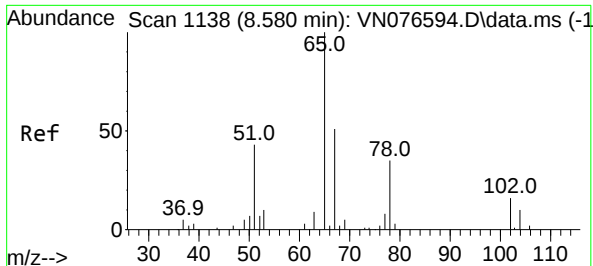
Tgt Ion: 59 Resp: 242
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.4#



#25
Chloroform
Concen: 0.218 ug/l
RT: 7.969 min Scan# 1034
Delta R.T. -0.008 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion: 83 Resp: 1554
Ion Ratio Lower Upper
83 100
85 75.2 53.6 80.4





#27

1,2-Dichloroethane-d4

Concen: 25.952 ug/l

RT: 8.587 min Scan# 1139

Delta R.T. -0.001 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

Instrument :

MSVOA_N

ClientSampleId :

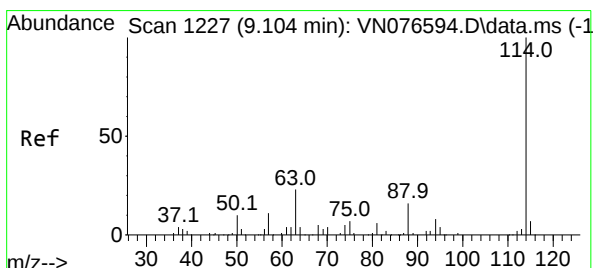
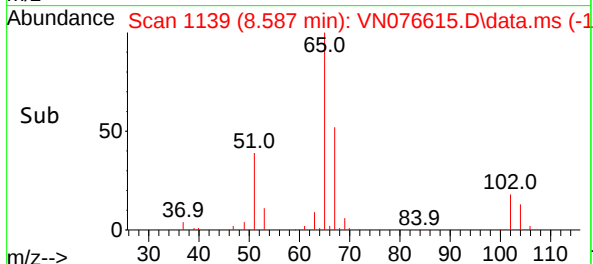
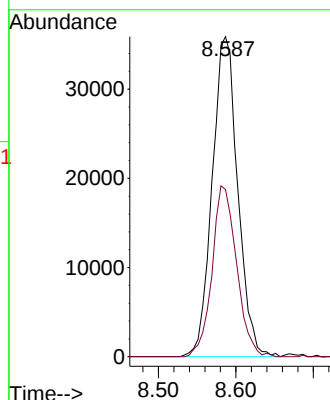
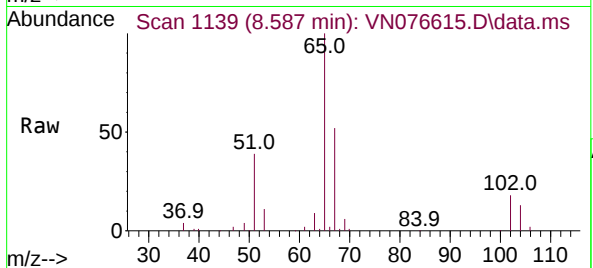
002-35TH-AVE(FEB)

Tgt Ion: 65 Resp: 82125

Ion Ratio Lower Upper

65 100

67 51.0 45.2 67.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.110 min Scan# 1228

Delta R.T. 0.004 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

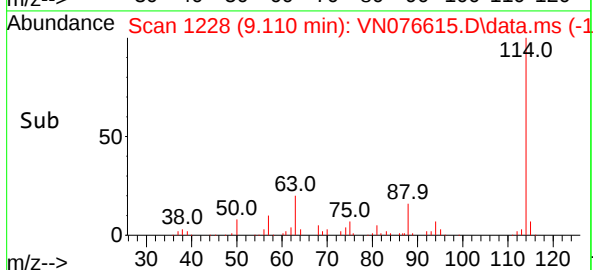
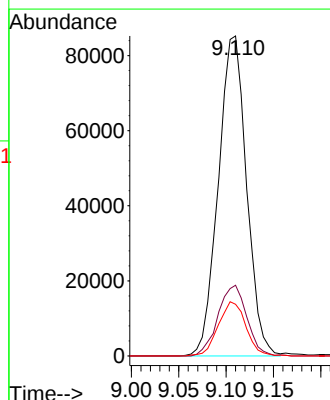
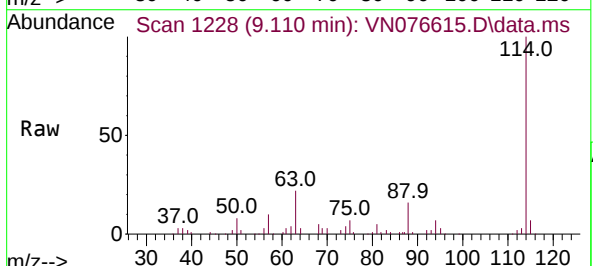
Tgt Ion: 114 Resp: 176962

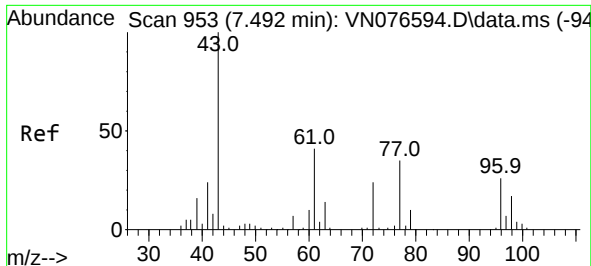
Ion Ratio Lower Upper

114 100

63 22.5 16.6 25.0

88 16.5 12.2 18.4

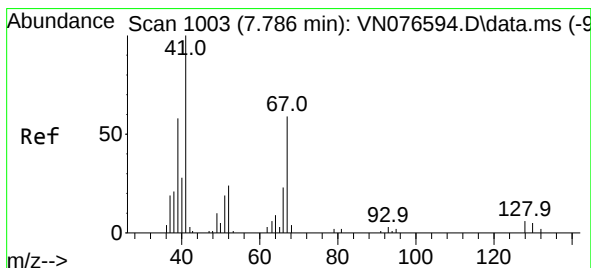
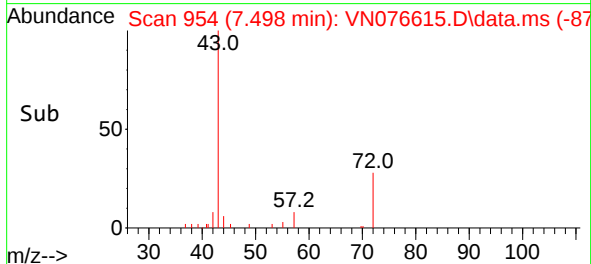
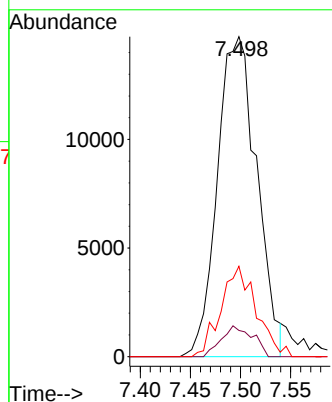
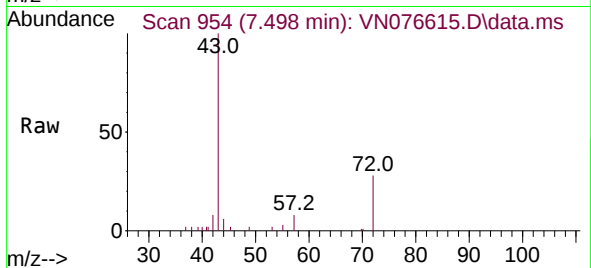




#30
2-Butanone
Concen: 16.265 ug/l
RT: 7.498 min Scan# 91
Delta R.T. -0.008 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

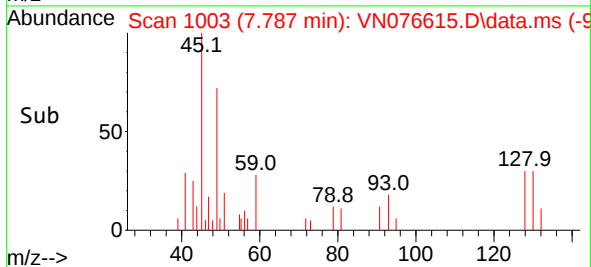
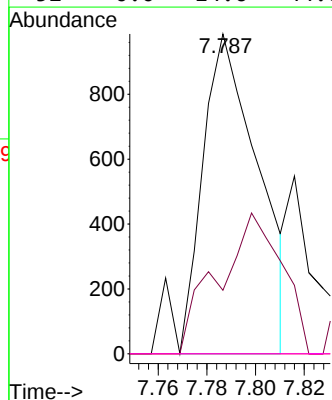
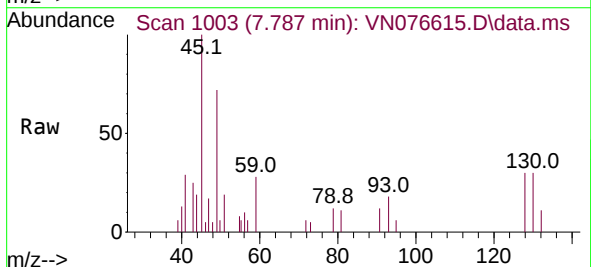
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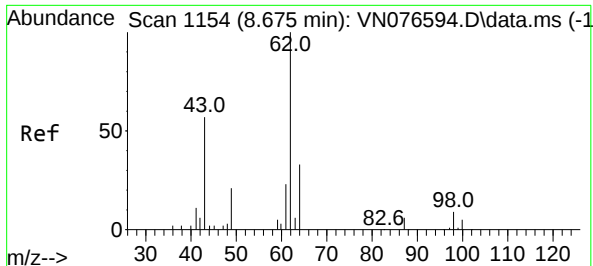
Tgt Ion: 43 Resp: 40214
Ion Ratio Lower Upper
43 100
57 7.7 6.3 9.5
72 25.0 21.0 31.4



#35
Methacrylonitrile
Concen: 0.547 ug/l
RT: 7.787 min Scan# 1003
Delta R.T. -0.007 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion: 41 Resp: 1555
Ion Ratio Lower Upper
41 100
39 19.9 27.7 83.1#
67 0.0 38.0 113.9#
52 0.0 14.6 44.0#





#36

1,2-Dichloroethane

Concen: 1.474 ug/l

RT: 9.104 min Scan# 1154

Delta R.T. 0.421 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

Instrument :

MSVOA_N

ClientSampleId :

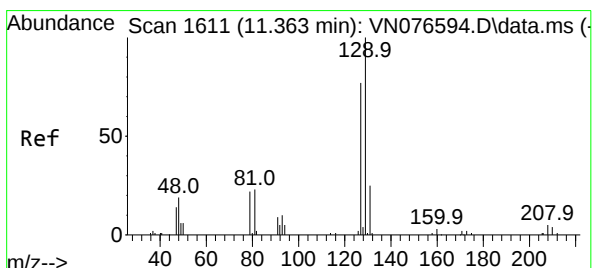
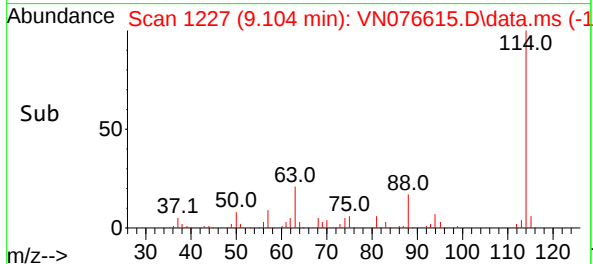
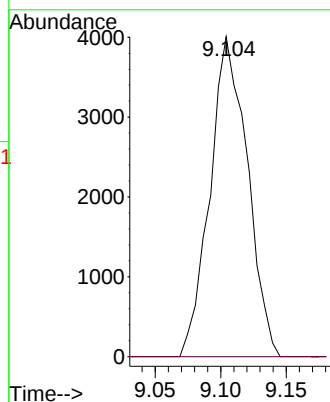
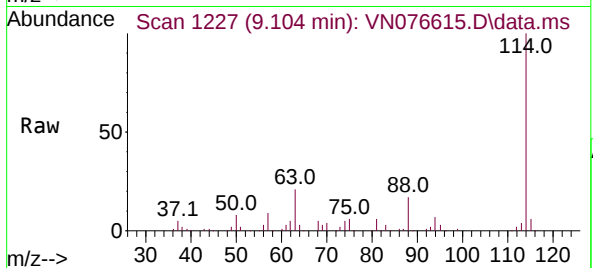
002-35TH-AVE(FEB)

Tgt Ion: 62 Resp: 7955

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.2#



#53

Dibromochloromethane

Concen: 0.262 ug/l

RT: 11.104 min Scan# 1567

Delta R.T. -0.261 min

Lab File: VN076615.D

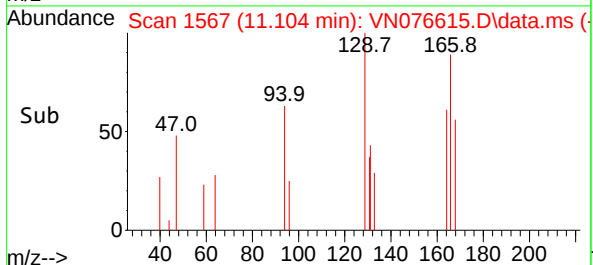
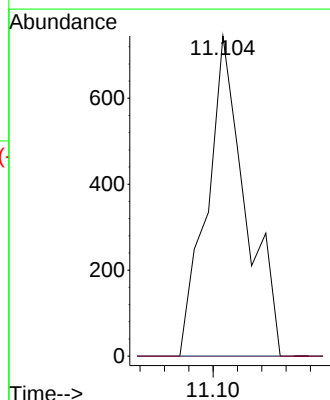
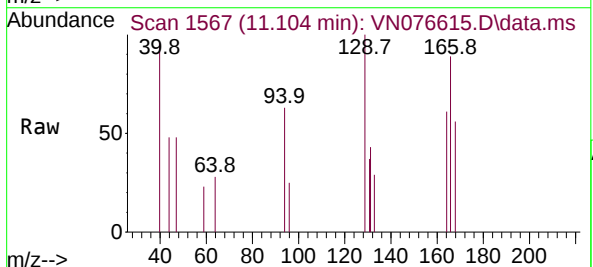
Acq: 10 Feb 2023 17:33

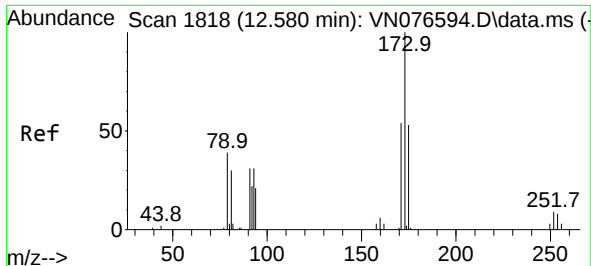
Tgt Ion: 129 Resp: 817

Ion Ratio Lower Upper

129 100

127 0.0 40.6 121.7#

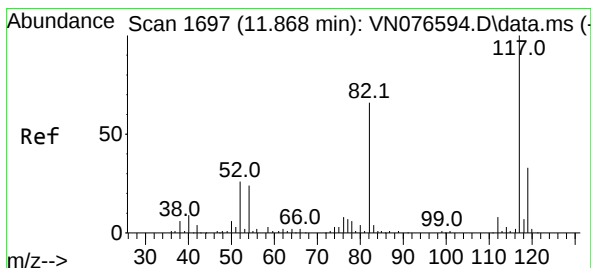
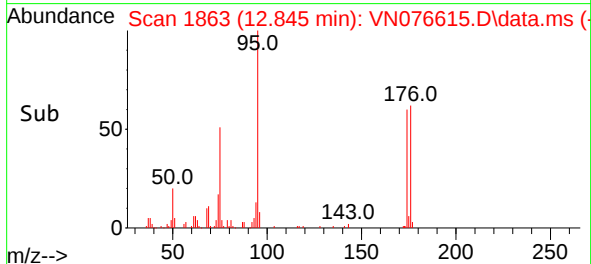
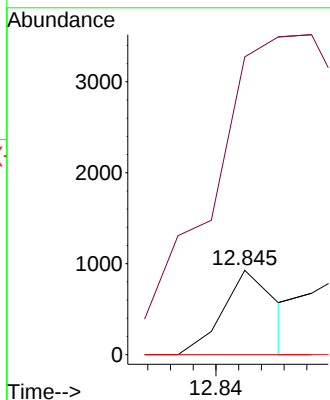
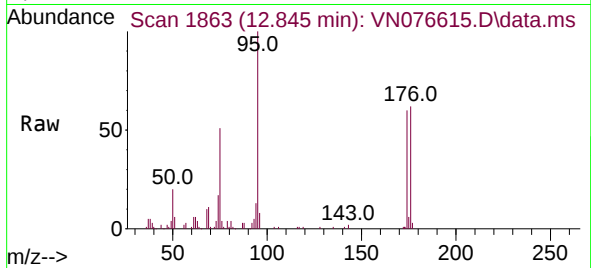




#56
Bromoform
Concen: 0.308 ug/l
RT: 12.845 min Scan# 1863
Delta R.T. 0.269 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

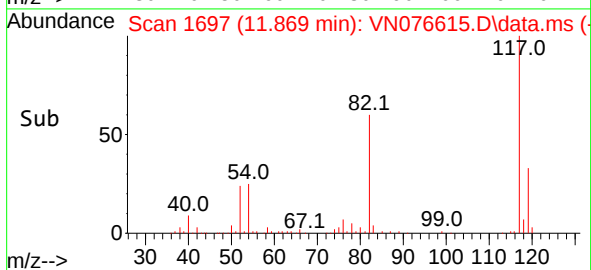
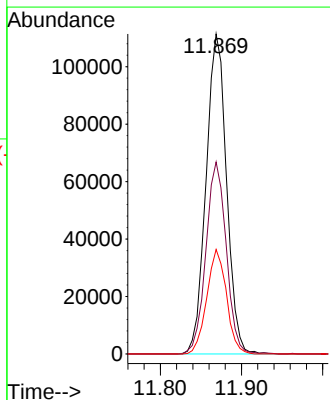
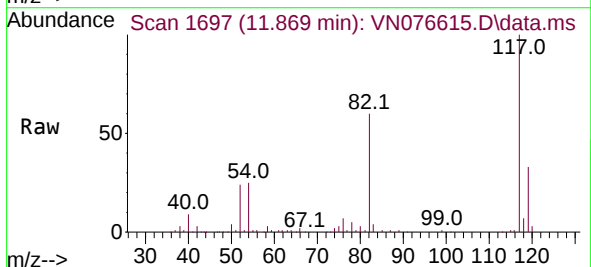
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

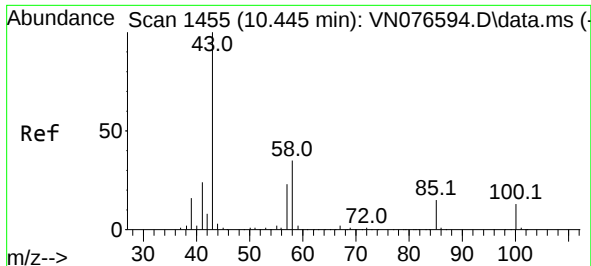
Tgt Ion:173 Resp: 618
Ion Ratio Lower Upper
173 100
175 0.0 39.1 58.7#
254 0.0 7.0 10.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.869 min Scan# 1697
Delta R.T. -0.002 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion:117 Resp: 195385
Ion Ratio Lower Upper
117 100
82 59.4 44.6 67.0
119 31.3 25.6 38.4

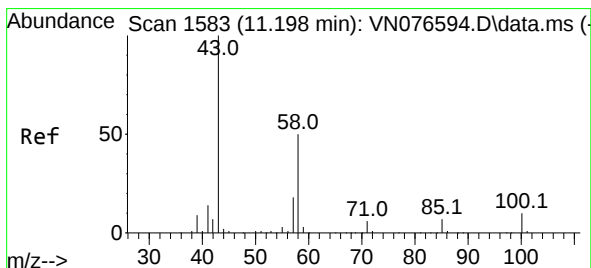
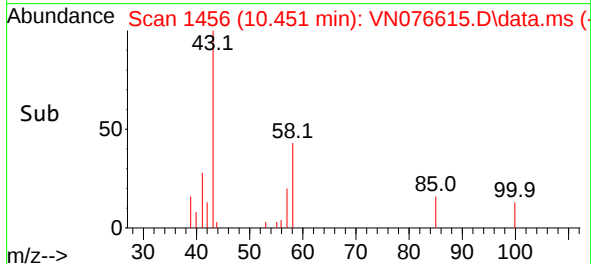
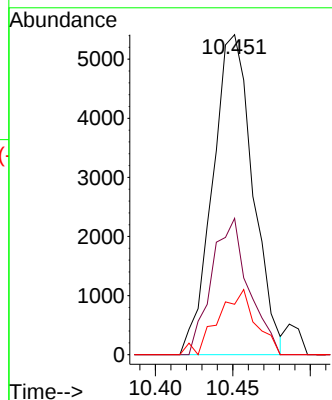
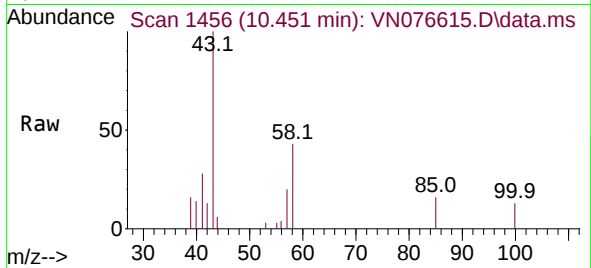




#58
4-Methyl-2-Pentanone
Concen: 1.793 ug/l
RT: 10.451 min Scan# 1455
Delta R.T. 0.004 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

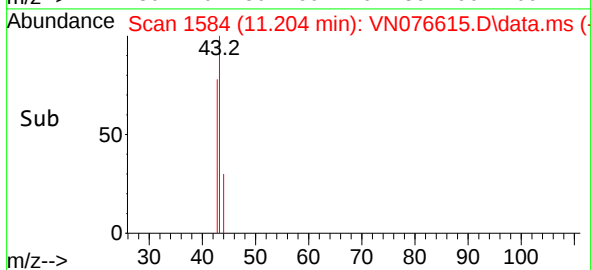
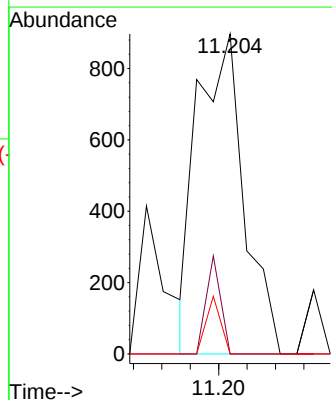
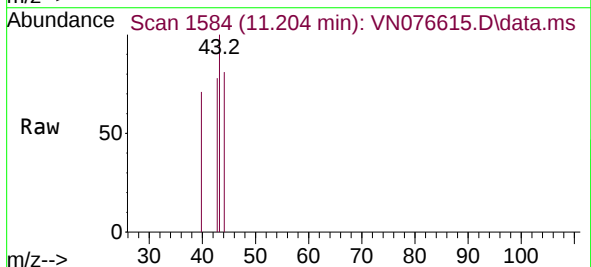
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

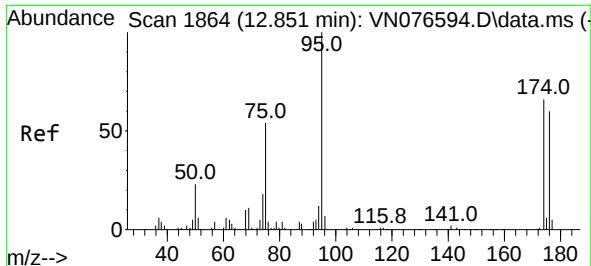
Tgt Ion:	43	Resp:	9793
Ion	Ratio	Lower	Upper
43	100		
58	39.1	30.8	46.2
85	18.4	13.3	19.9



#59
2-Hexanone
Concen: 0.258 ug/l
RT: 11.204 min Scan# 1584
Delta R.T. 0.004 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion:	43	Resp:	1023
Ion	Ratio	Lower	Upper
43	100		
58	0.0	43.6	65.4#
57	20.3	14.3	21.5

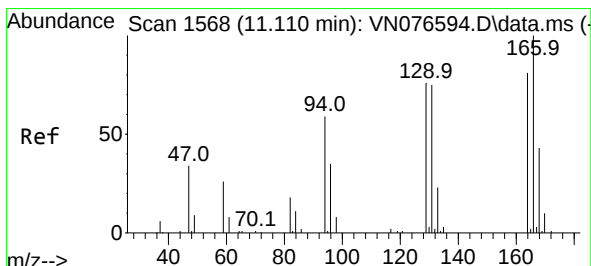
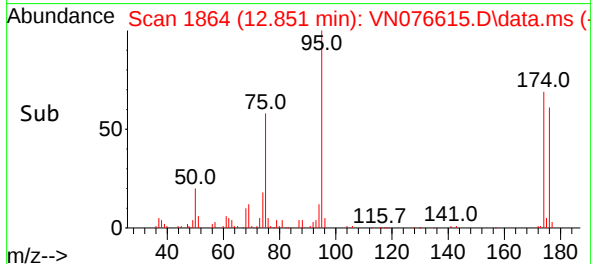
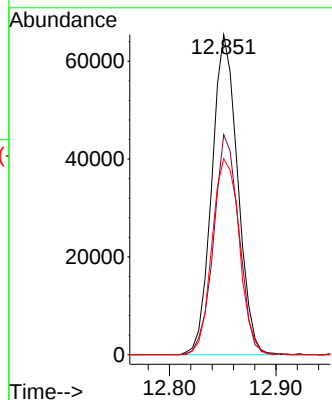
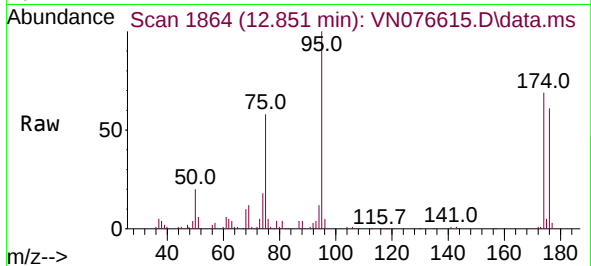




#60
4-Bromofluorobenzene
Concen: 24.908 ug/l
RT: 12.851 min Scan# 11
Delta R.T. -0.002 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

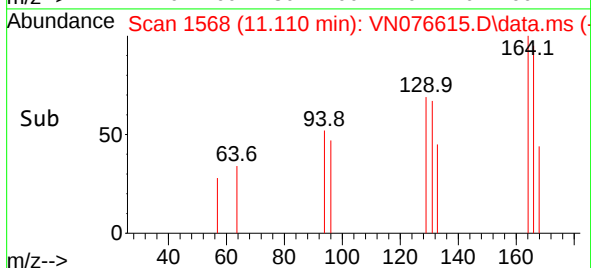
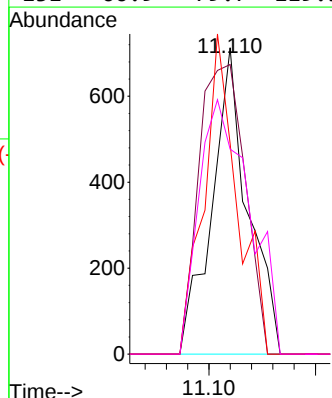
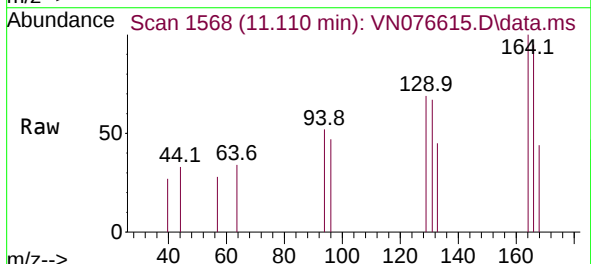
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

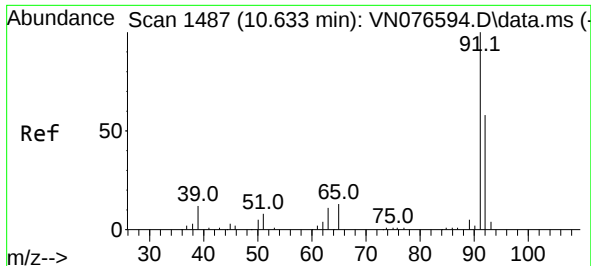
Tgt Ion: 95 Resp: 109869
Ion Ratio Lower Upper
95 100
174 67.5 57.8 86.8
176 65.1 57.0 85.4



#61
Tetrachloroethene
Concen: 0.336 ug/l
RT: 11.110 min Scan# 1568
Delta R.T. 0.004 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion:164 Resp: 839
Ion Ratio Lower Upper
164 100
166 94.5 99.6 149.4#
129 68.7 84.0 126.0#
131 66.9 79.7 119.5#

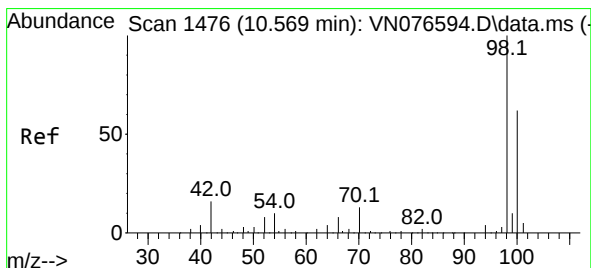
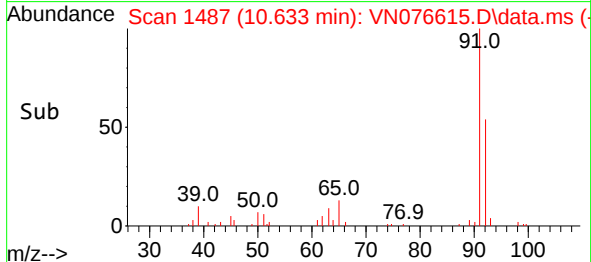
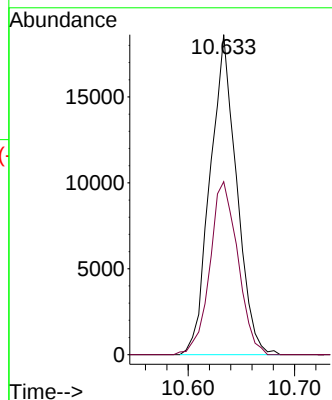
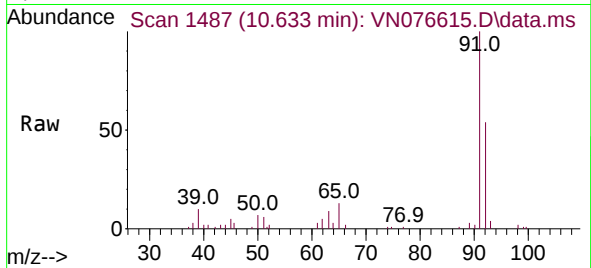




#62
Toluene
Concen: 2.224 ug/l
RT: 10.633 min Scan# 1487
Delta R.T. -0.002 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

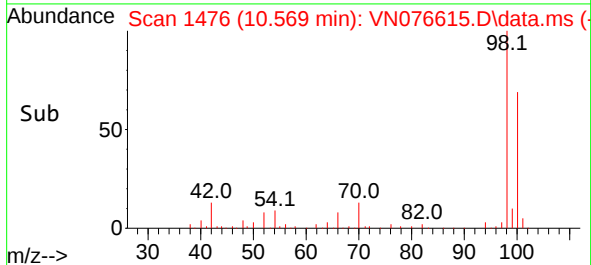
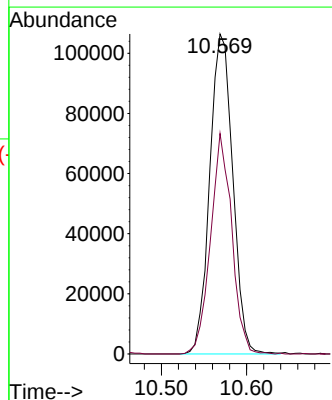
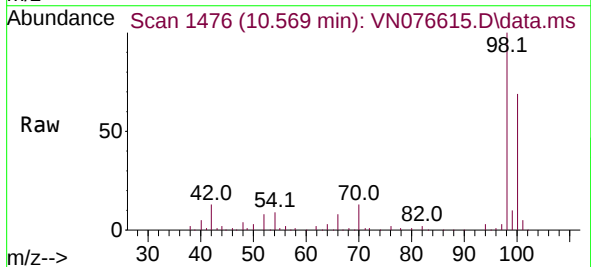
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

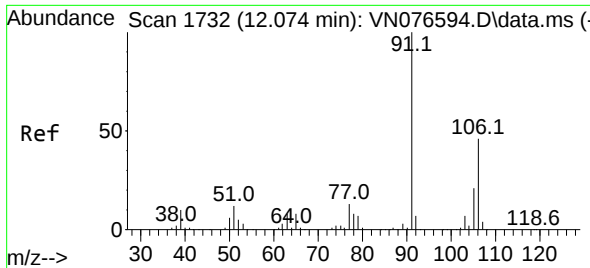
Tgt Ion: 91 Resp: 32221
Ion Ratio Lower Upper
91 100
92 56.8 46.0 69.0



#63
Toluene-d8
Concen: 27.839 ug/l
RT: 10.569 min Scan# 1476
Delta R.T. -0.002 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion: 98 Resp: 199718
Ion Ratio Lower Upper
98 100
100 63.5 52.7 79.1

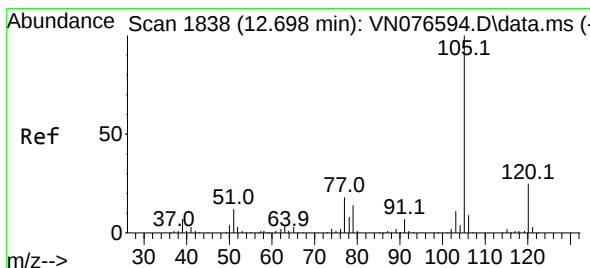
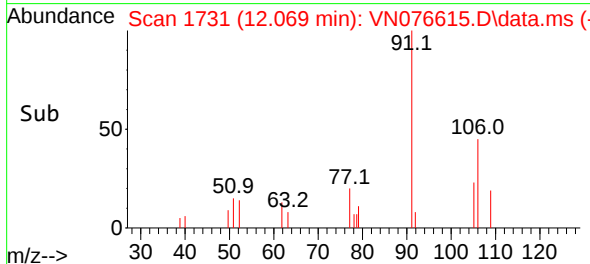
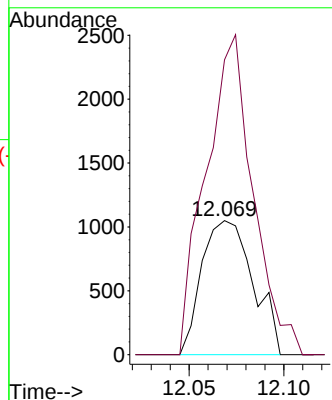
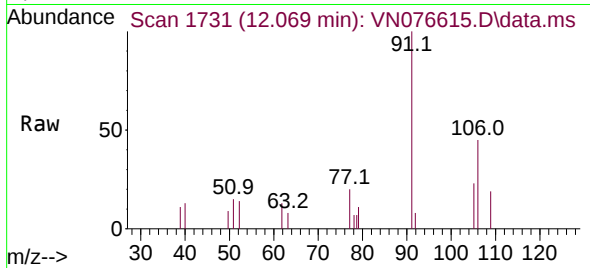




#67
m/p-Xylenes
Concen: 0.332 ug/l
RT: 12.069 min Scan# 11
Delta R.T. -0.007 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

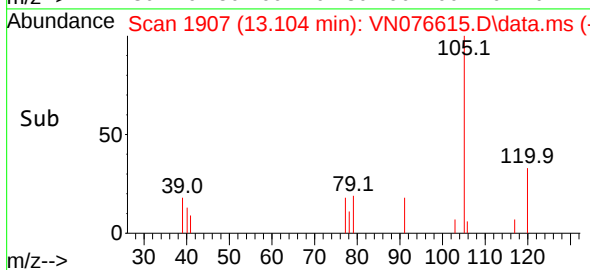
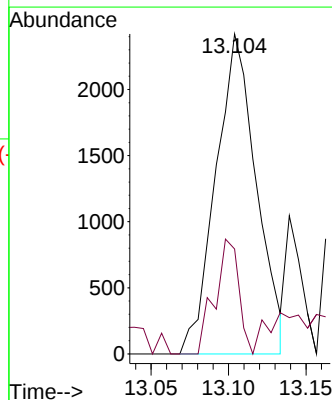
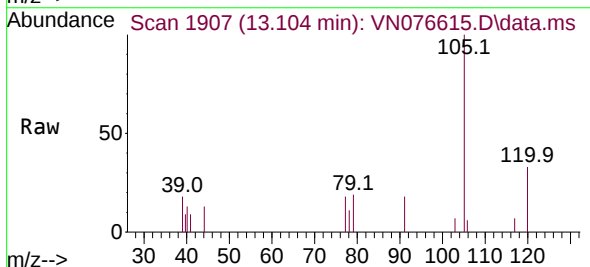
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

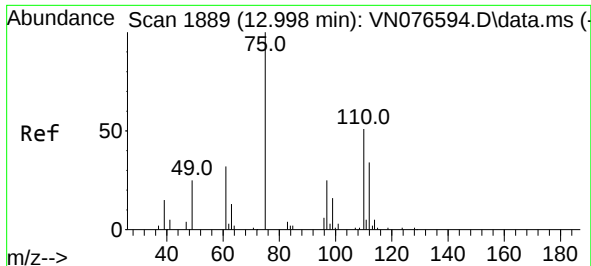
Tgt Ion:106 Resp: 1981
Ion Ratio Lower Upper
106 100
91 219.4 164.2 246.4



#70
Isopropylbenzene
Concen: 0.280 ug/l
RT: 13.104 min Scan# 1907
Delta R.T. 0.404 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion:105 Resp: 4402
Ion Ratio Lower Upper
105 100
120 21.0 18.5 34.3

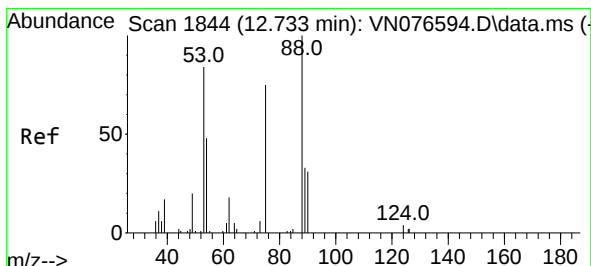
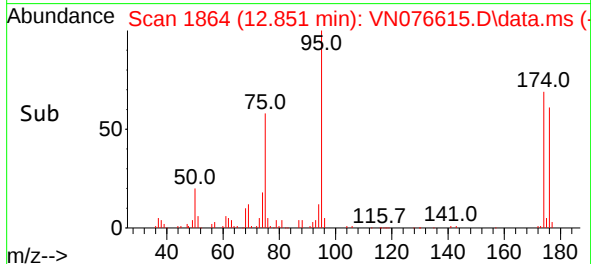
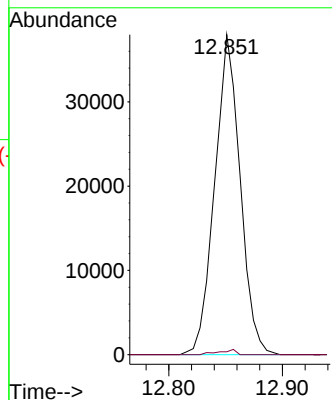
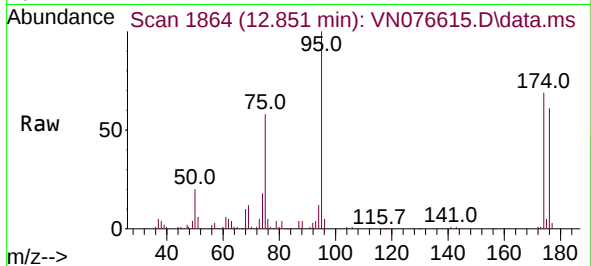




#72
1,2,3-Trichloropropane
Concen: 11.791 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.143 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

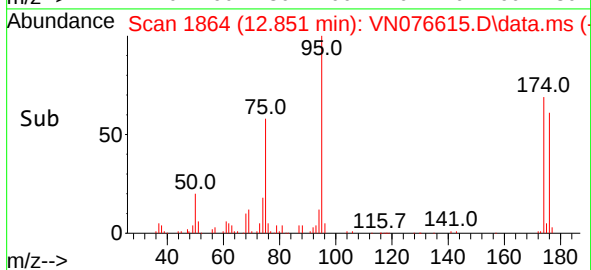
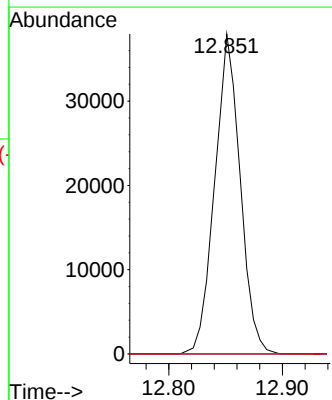
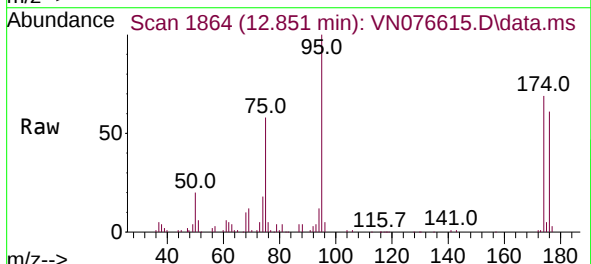
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(FEB)

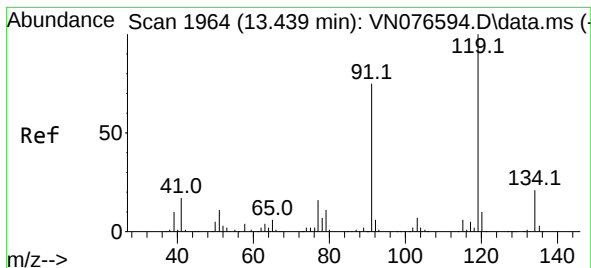
Tgt Ion: 75 Resp: 59062
Ion Ratio Lower Upper
75 100
77 1.1 0.0 372.4



#77
t-1,4-Dichloro-2-butene
Concen: 39.091 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. 0.116 min
Lab File: VN076615.D
Acq: 10 Feb 2023 17:33

Tgt Ion: 75 Resp: 59062
Ion Ratio Lower Upper
75 100
53 0.0 43.3 129.9#
89 0.0 21.1 63.1#





#79

tert-butylbenzene

Concen: 0.330 ug/l

RT: 13.733 min Scan# 20

Delta R.T. 0.292 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(FEB)

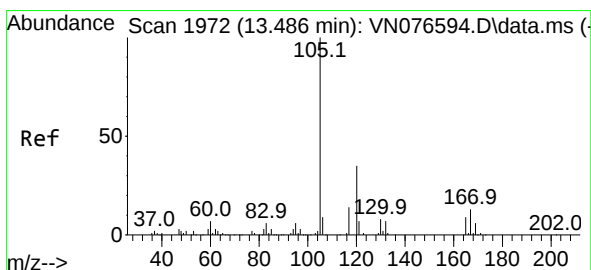
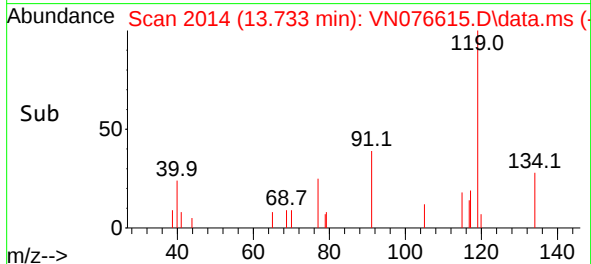
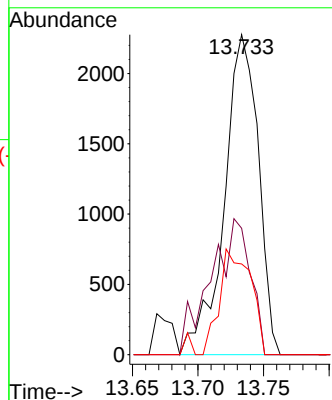
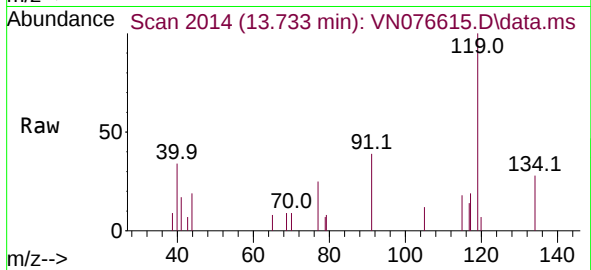
Tgt Ion:119 Resp: 4117

Ion Ratio Lower Upper

119 100

91 24.8 0.0 129.0

134 30.3 0.0 52.2



#80

1,2,4-Trimethylbenzene

Concen: 0.516 ug/l

RT: 13.492 min Scan# 1973

Delta R.T. 0.010 min

Lab File: VN076615.D

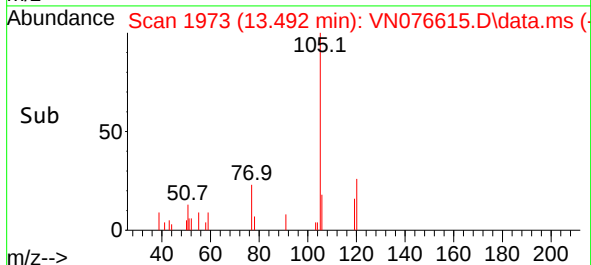
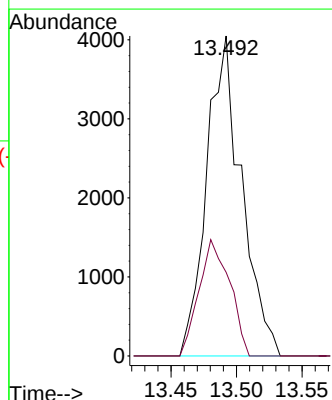
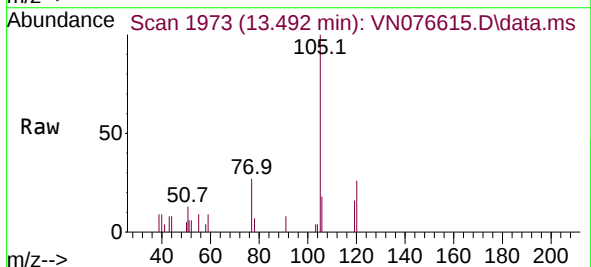
Acq: 10 Feb 2023 17:33

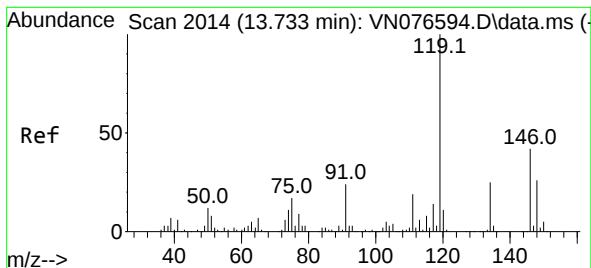
Tgt Ion:105 Resp: 7480

Ion Ratio Lower Upper

105 100

120 32.1 0.0 93.2





#82

p-Isopropyltoluene

Concen: 0.293 ug/l

RT: 13.733 min Scan# 2014

Delta R.T. 0.004 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(FEB)

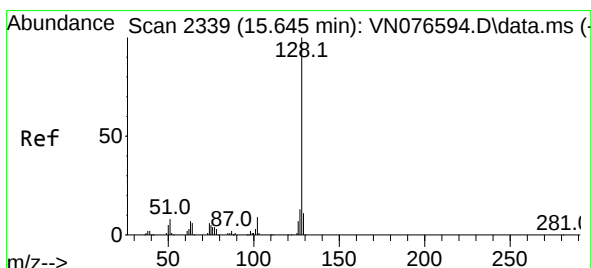
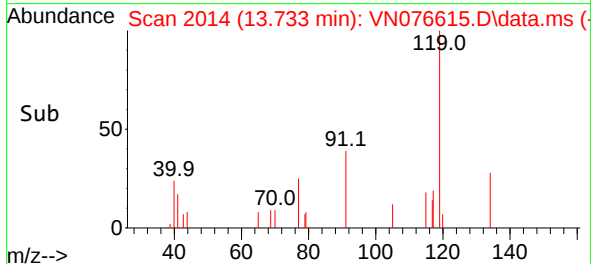
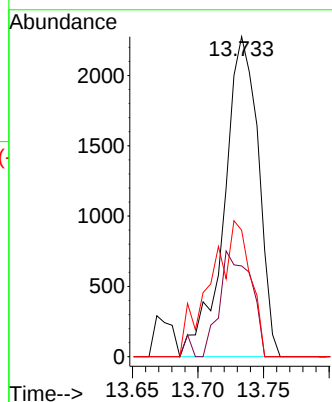
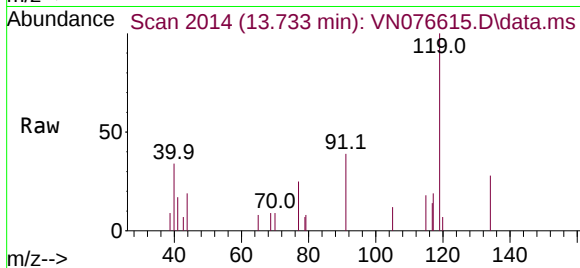
Tgt Ion:119 Resp: 4117

Ion Ratio Lower Upper

119 100

134 30.3 0.0 51.4

91 24.8 0.0 46.8



#91

Naphthalene

Concen: 6.482 ug/l

RT: 15.639 min Scan# 2338

Delta R.T. -0.002 min

Lab File: VN076615.D

Acq: 10 Feb 2023 17:33

Tgt Ion:128 Resp: 69907

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

129 10.9 8.9 13.3

