

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111920\
 Data File : VN064769.D
 Acq On : 20 Nov 2020 8:43
 Operator : JC/MD
 Sample : L4779-04 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1608

Quant Time: Nov 20 13:46:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	210304	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	431013	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	468110	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	240762	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	213968	57.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.68%	
35) Dibromofluoromethane	7.55	113	147926	60.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.60%	
50) Toluene-d8	10.06	98	568971	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.38	95	257880	61.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.76%	

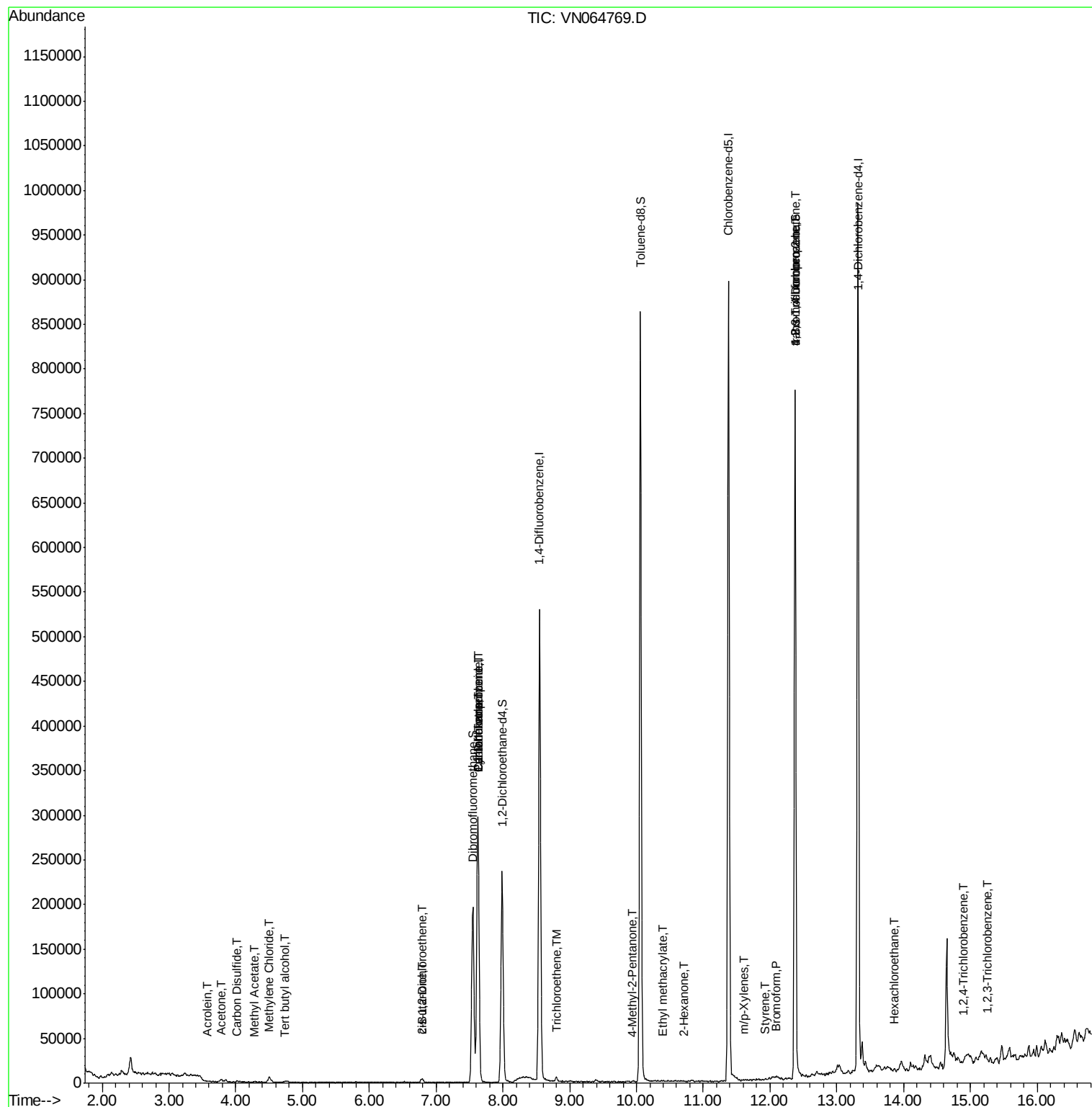
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	298	0.830	ug/l #	66
13) Acrolein	3.57	56	104	1.238	ug/l #	11
16) Acetone	3.78	43	4809	10.328	ug/l	99
17) Carbon Disulfide	4.02	76	477	0.204	ug/l #	75
18) Methyl Acetate	4.29	43	719	1.592	ug/l #	54
20) Methylene Chloride	4.51	84	2307	0.842	ug/l	91
25) 2-Butanone	6.79	43	943	0.667	ug/l	92
27) cis-1,2-Dichloroethene	6.78	96	1429	0.514	ug/l #	1
31) Cyclohexane	7.63	56	6098	1.525	ug/l #	22
36) 1,1-Dichloropropene	7.62	75	21090	4.756	ug/l #	50
38) Carbon Tetrachloride	7.63	117	24711	5.244	ug/l #	16
44) Trichloroethene	8.79	130	924	0.261	ug/l	92
51) 4-Methyl-2-Pentanone	9.93	43	246	6.185	ug/l #	39
56) Ethyl methacrylate	10.40	69	59	2.686	ug/l #	1
59) 2-Hexanone	10.72	43	347	8.545	ug/l #	41
68) m/p-Xylenes	11.59	106	101	4.076	ug/l #	1
70) Styrene	11.94	104	29	2.539	ug/l #	24
71) Bromoform	12.11	173	62	2.467	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	145308	28.011	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	145308	71.506	ug/l #	5
90) Hexachloroethane	13.85	117	531	0.239	ug/l #	18
93) 1,2,4-Trichlorobenzene	14.89	180	29	1.339	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.26	180	208	0.809	ug/l #	1

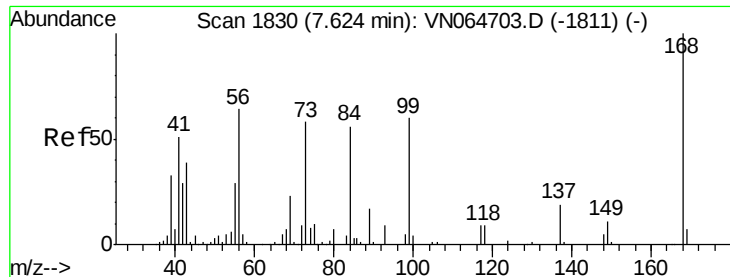
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampleId :

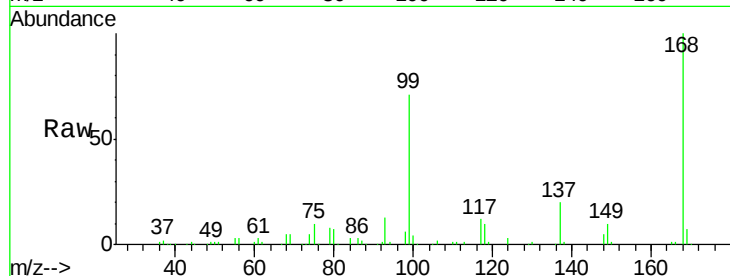
1608

Tgt Ion: 168 Resp: 210304

Ion Ratio Lower Upper

168 100

99 70.7 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): VN064703.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064703.D (-1811) (-)

7.63

80000

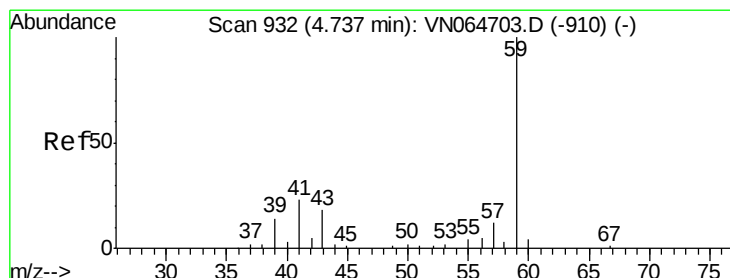
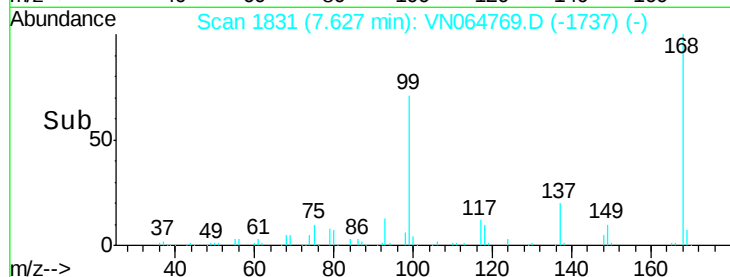
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.830 ug/l

RT: 4.74 min Scan# 933

Delta R.T. 0.00 min

Lab File: VN064769.D

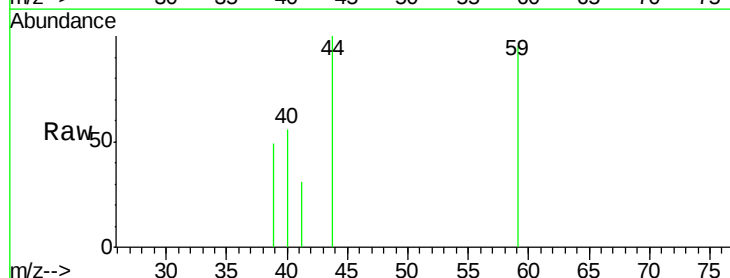
Acq: 20 Nov 2020 8:43

Tgt Ion: 59 Resp: 298

Ion Ratio Lower Upper

59 100

57 24.5 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VN064703.D (-910) (-)

Ion 57.00 (56.70 to 57.70): VN064703.D (-910) (-)

4.74

500

400

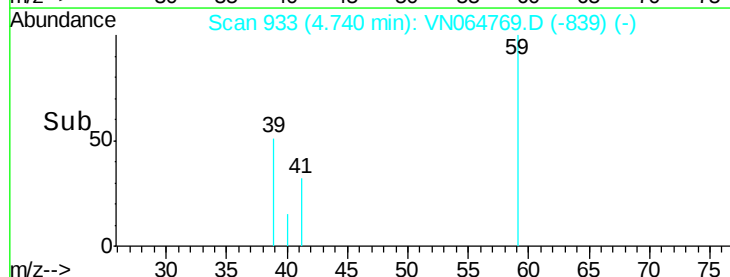
300

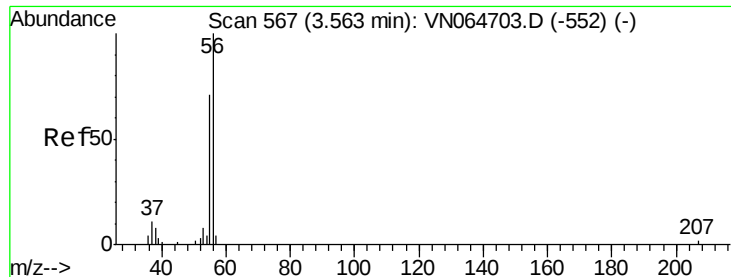
200

100

0

Time--> 4.72 4.73 4.74 4.75





#13

Acrolein

Concen: 1.238 ug/l

RT: 3.57 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampled :

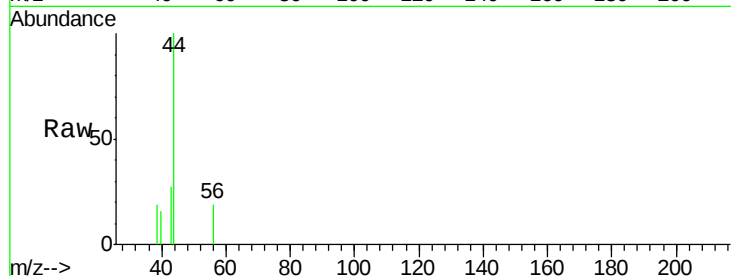
1608

Tgt Ion: 56 Resp: 104

Ion Ratio Lower Upper

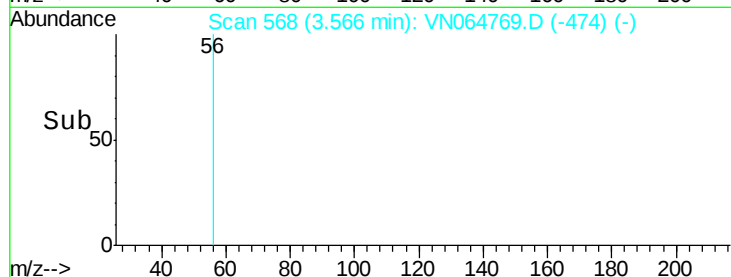
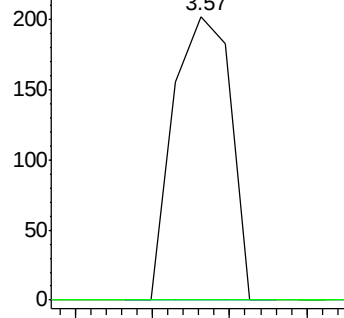
56 100

55 0.0 61.8 92.6#

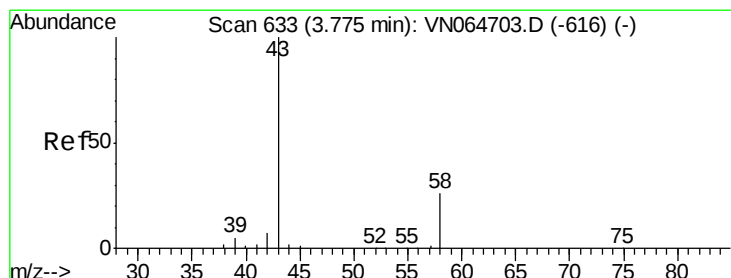


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 10.328 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064769.D

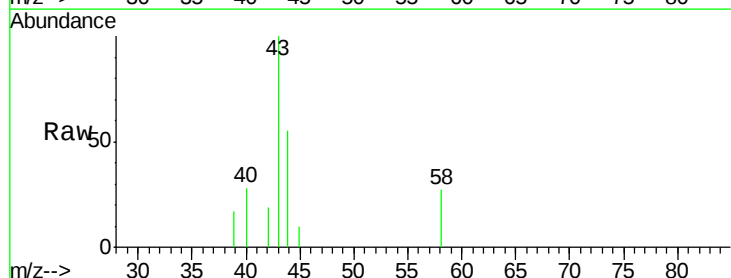
Acq: 20 Nov 2020 8:43

Tgt Ion: 43 Resp: 4809

Ion Ratio Lower Upper

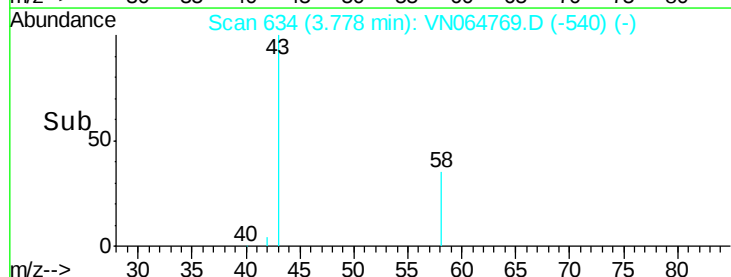
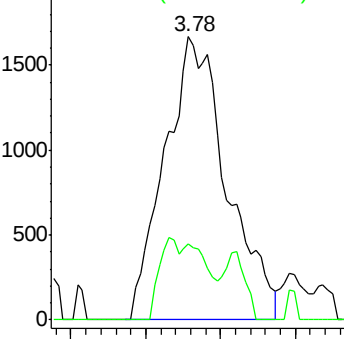
43 100

58 26.9 21.2 31.8

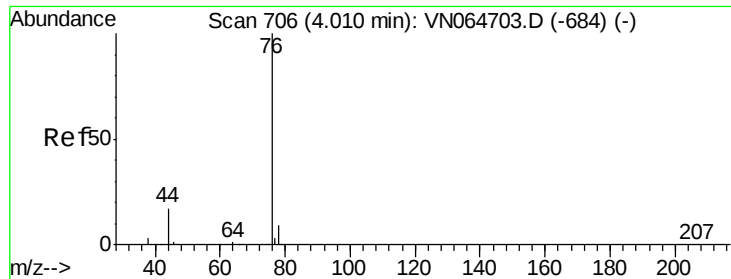


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#17

Carbon Disulfide

Concen: 0.204 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampled :

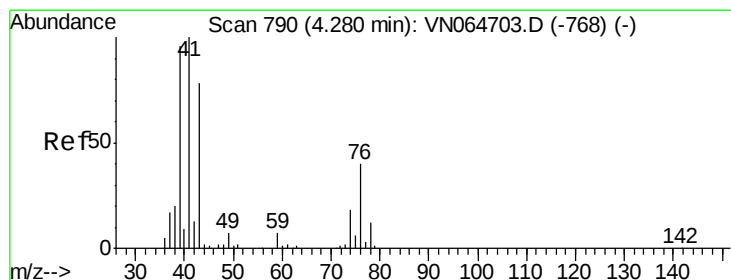
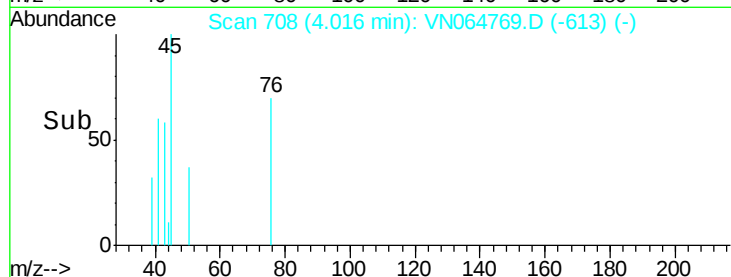
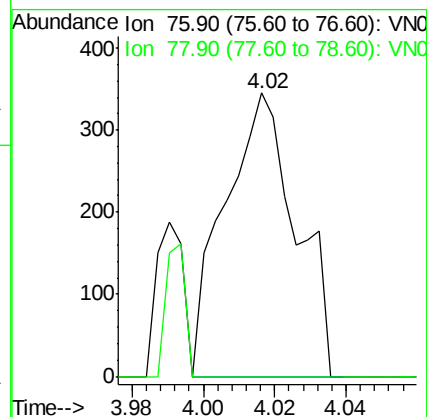
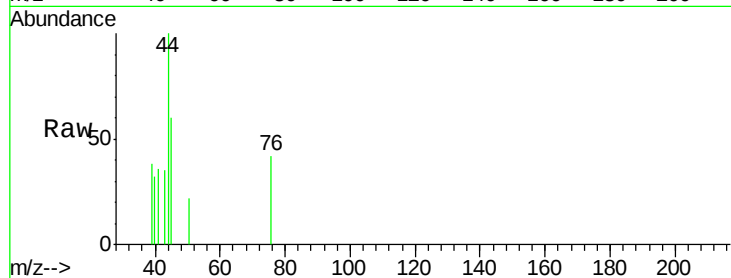
1608

Tgt Ion: 76 Resp: 477

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: 1.592 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN064769.D

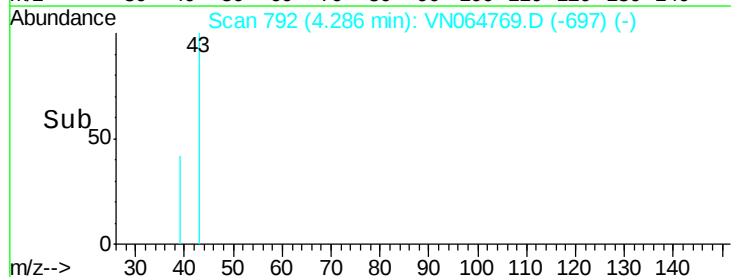
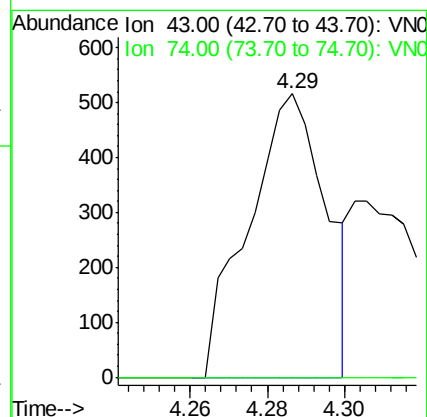
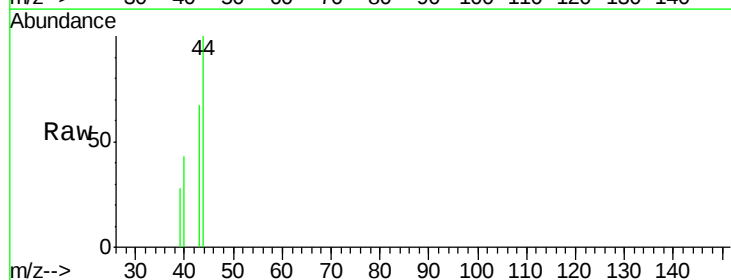
Acq: 20 Nov 2020 8:43

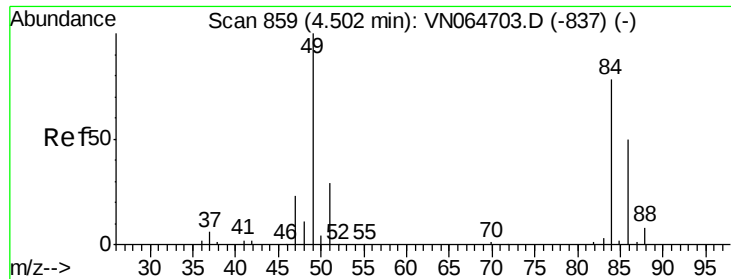
Tgt Ion: 43 Resp: 719

Ion Ratio Lower Upper

43 100

74 0.0 17.6 26.4#



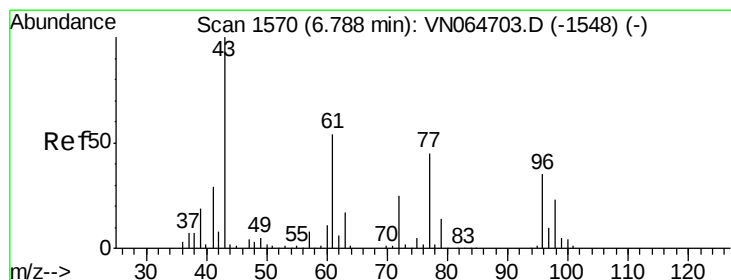
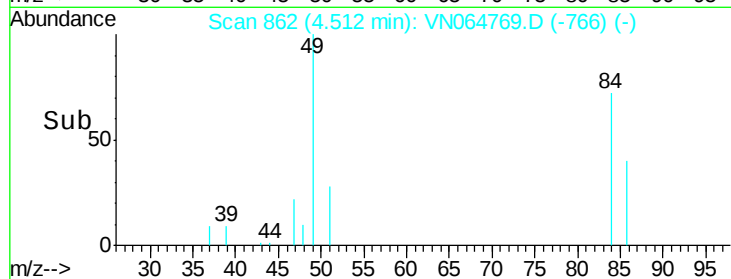
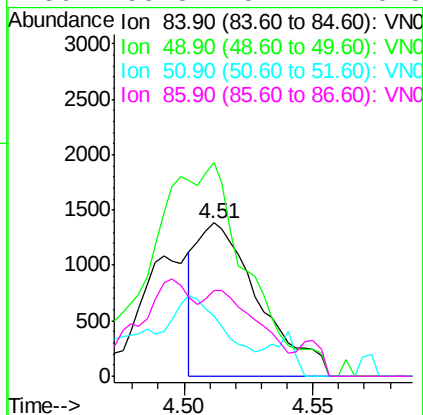
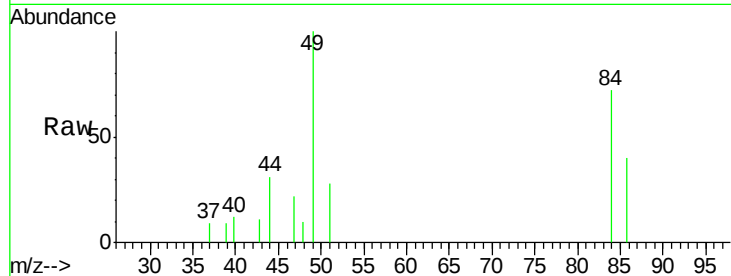


#20
Methylene Chloride
Concen: 0.842 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN064769.D
Acq: 20 Nov 2020 8:43

Instrument :
MSVOA_N
ClientSampled :
1608

Tgt Ion: 84 Resp: 2307

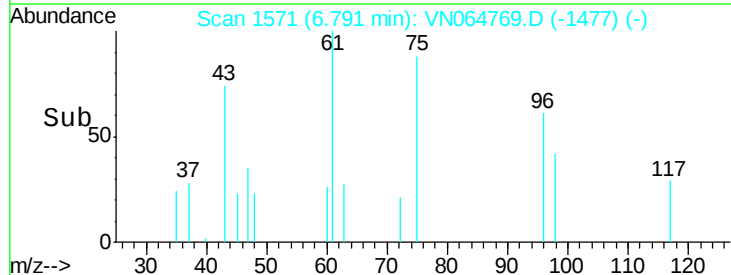
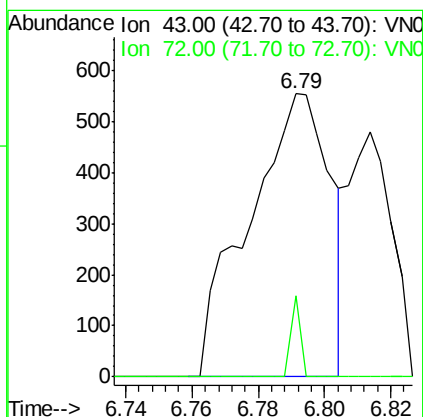
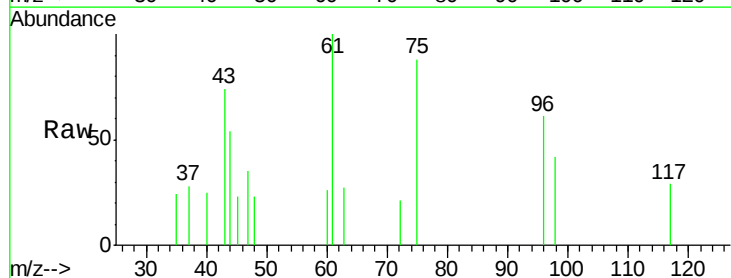
Ion	Ratio	Lower	Upper
84	100		
49	139.4	102.4	153.6
51	39.1	29.4	44.2
86	55.8	51.2	76.8

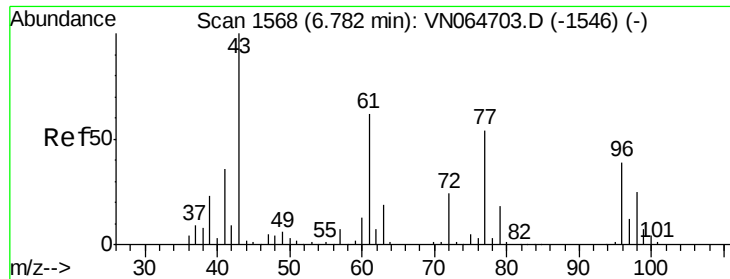


#25
2-Butanone
Concen: 0.667 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN064769.D
Acq: 20 Nov 2020 8:43

Tgt Ion: 43 Resp: 943

Ion	Ratio	Lower	Upper
43	100		
72	28.6	19.7	29.5





#27

cis-1,2-Dichloroethene

Concen: 0.514 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampleId :

1608

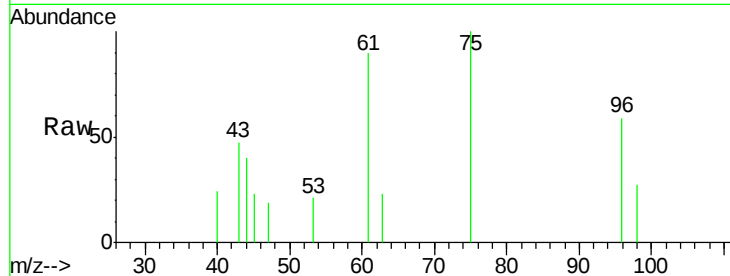
Tgt Ion: 96 Resp: 1429

Ion Ratio Lower Upper

96 100

61 0.0 0.0 322.6

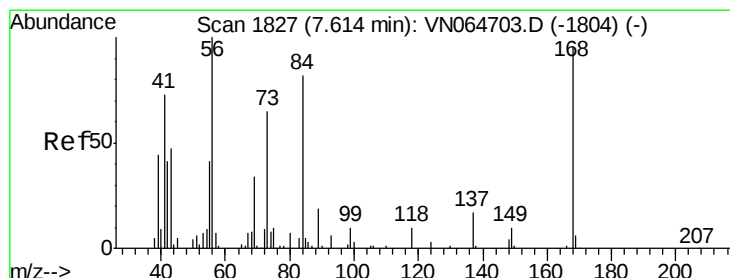
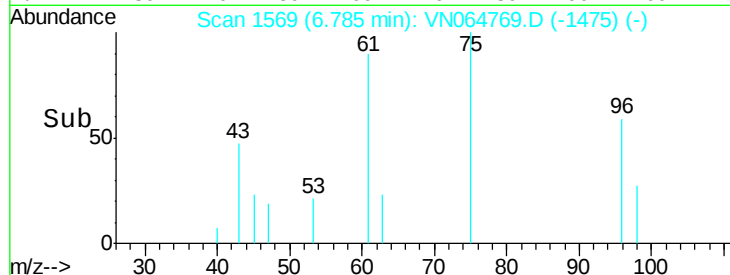
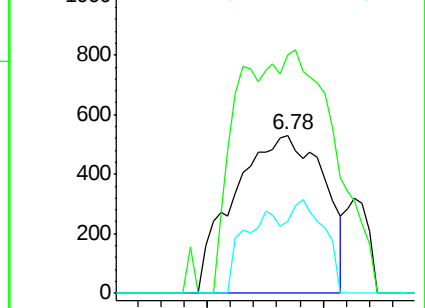
98 20.6 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.525 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

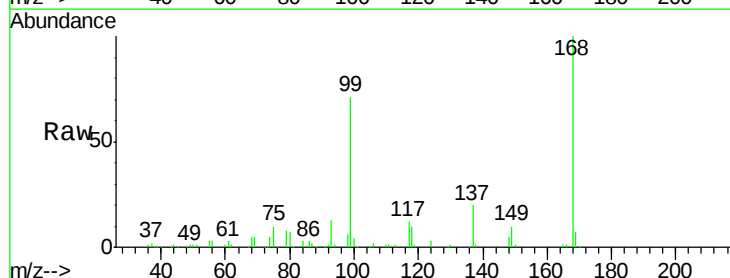
Tgt Ion: 56 Resp: 6098

Ion Ratio Lower Upper

56 100

69 159.6 27.2 40.8#

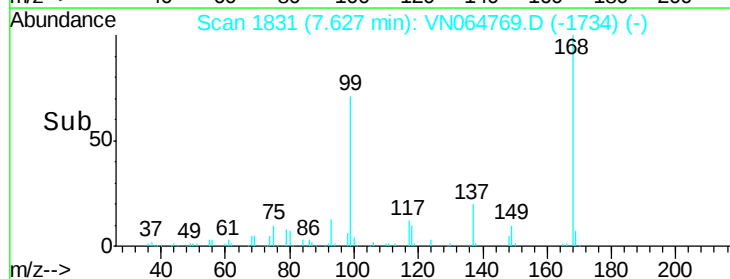
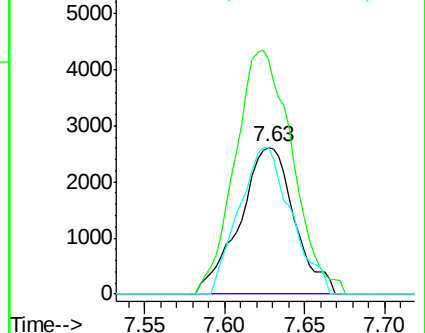
84 99.6 65.9 98.9#

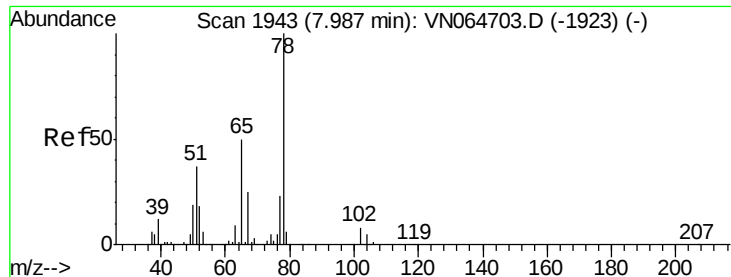


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

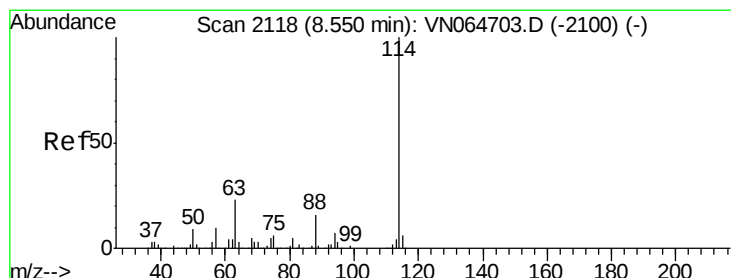
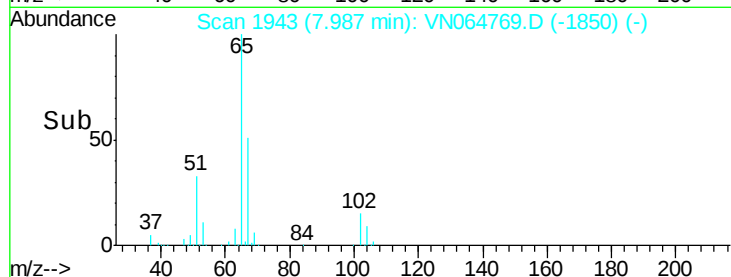
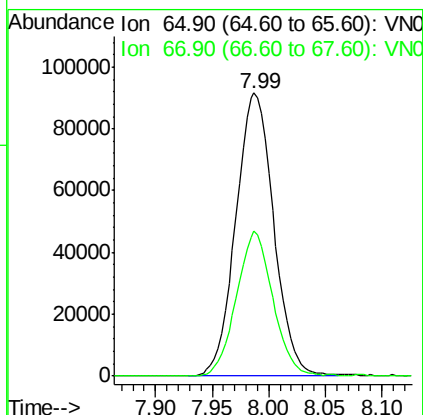
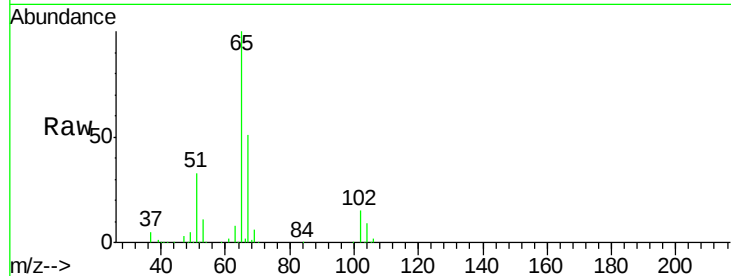




#33
 1,2-Dichloroethane-d4
 Concen: 57.836 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064769.D
 Acq: 20 Nov 2020 8:43

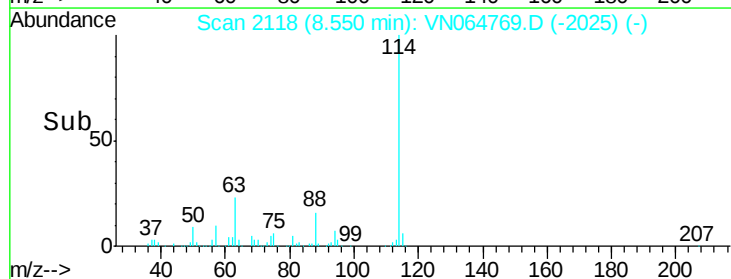
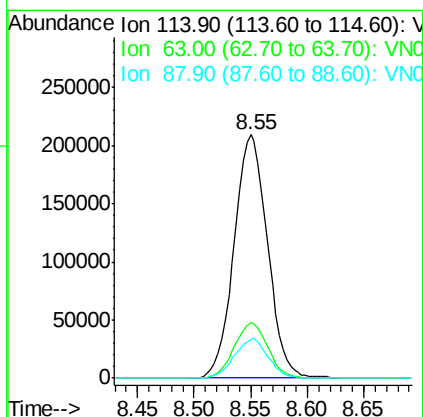
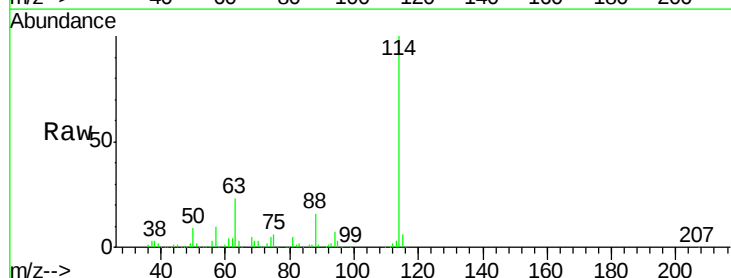
Instrument :
 MSVOA_N
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 1608

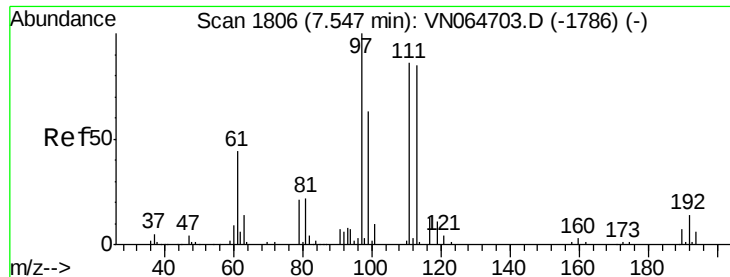
Tgt Ion: 65 Resp: 213968
 Ion Ratio Lower Upper
 65 100
 67 49.0 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064769.D
 Acq: 20 Nov 2020 8:43

Tgt Ion: 114 Resp: 431013
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 46.0
 88 16.0 0.0 31.2

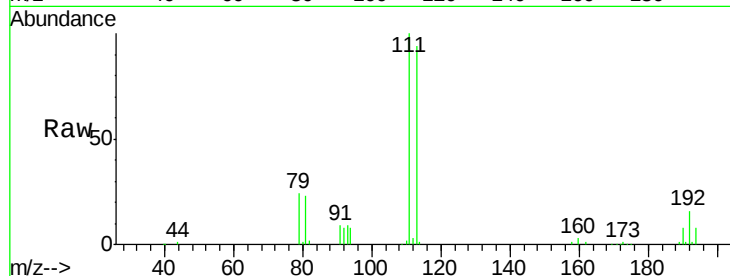




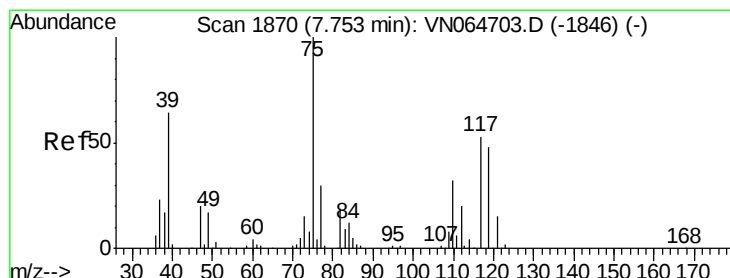
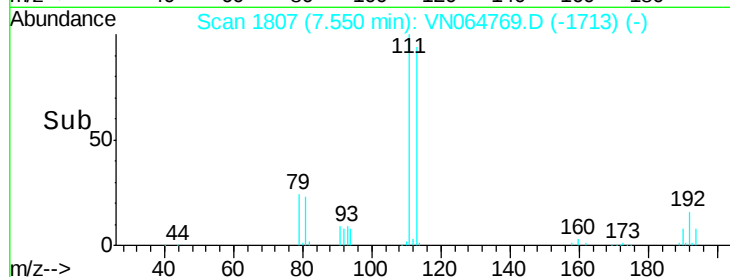
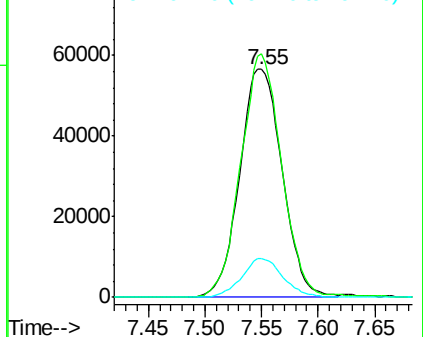
#35
 Dibromofluoromethane
 Concen: 60.299 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064769.D
 Acq: 20 Nov 2020 8:43

Instrument :
 MSVOA_N
 ClientSampleId :
 1608

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.2	123.4
192	16.5	12.7	19.1

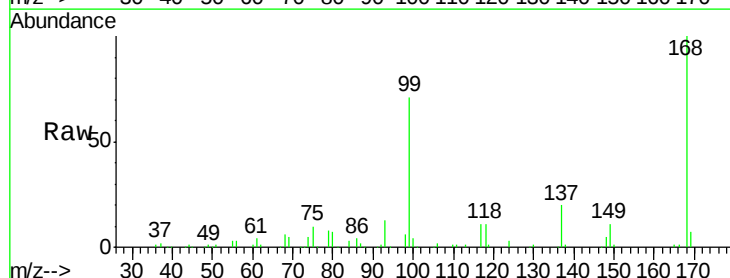


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

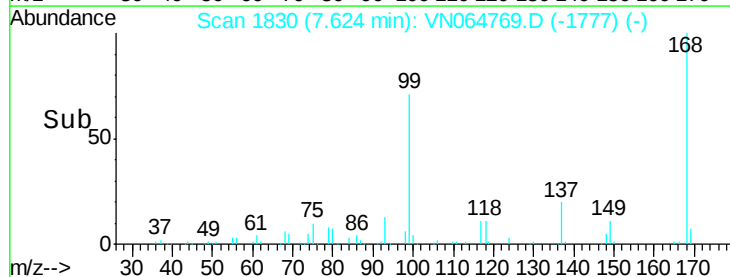
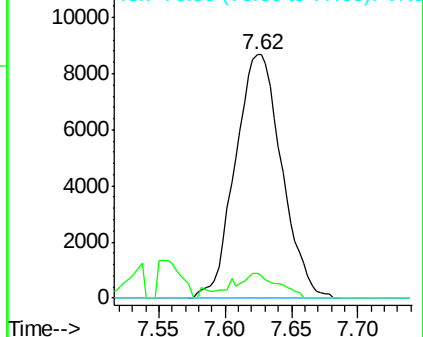


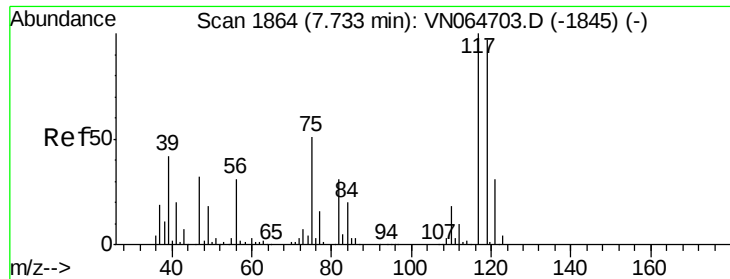
#36
 1,1-Dichloropropene
 Concen: 4.756 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064769.D
 Acq: 20 Nov 2020 8:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.1	16.2	48.6#
77	0.0	24.4	36.6#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.244 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampled :

1608

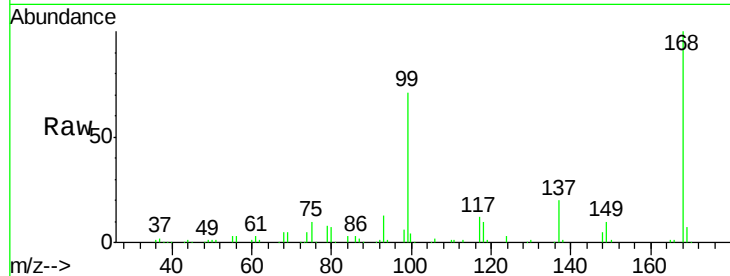
Tgt Ion:117 Resp: 24711

Ion Ratio Lower Upper

117 100

119 6.1 77.8 116.6#

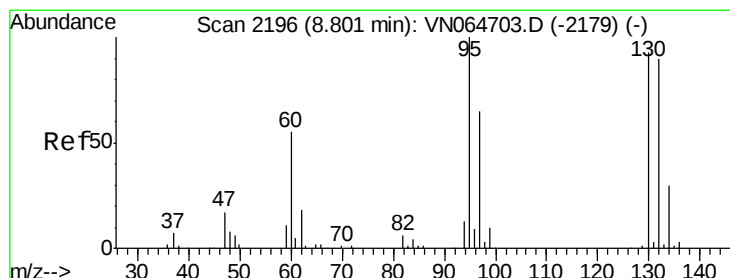
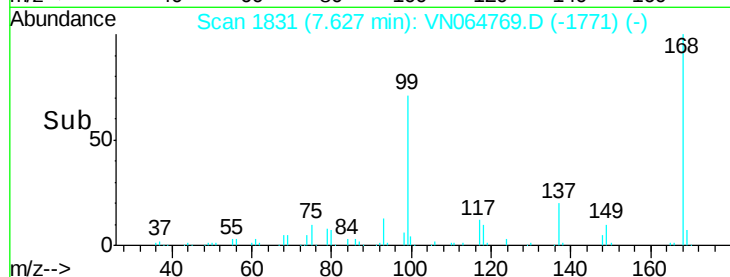
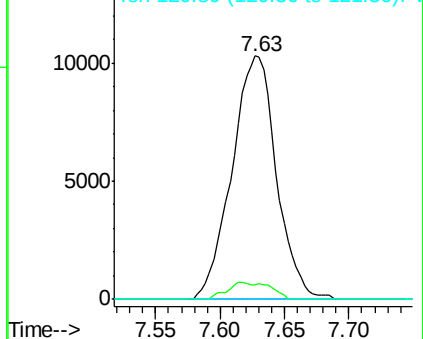
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.261 ug/l

RT: 8.79 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VN064769.D

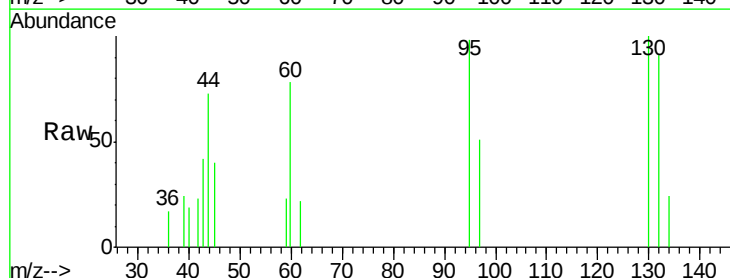
Acq: 20 Nov 2020 8:43

Tgt Ion:130 Resp: 924

Ion Ratio Lower Upper

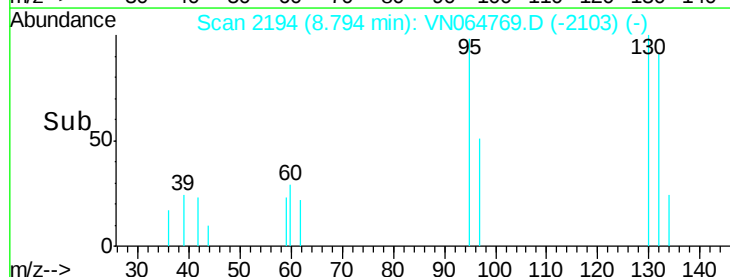
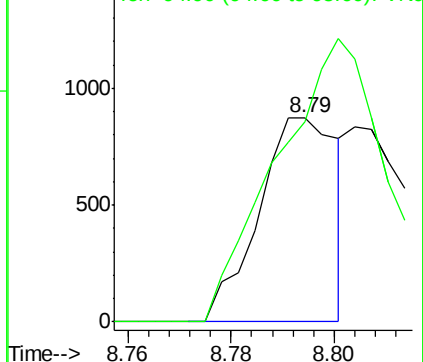
130 100

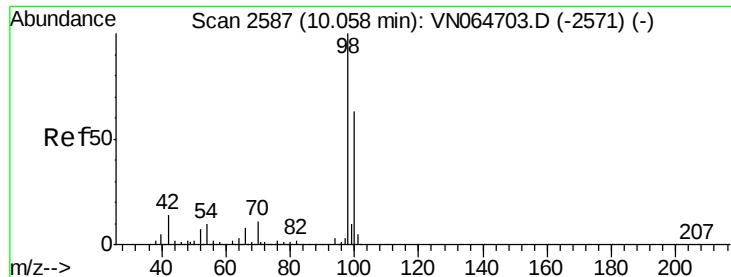
95 98.4 0.0 214.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN





#50

Toluene-d8

Concen: 51.031 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampleId :

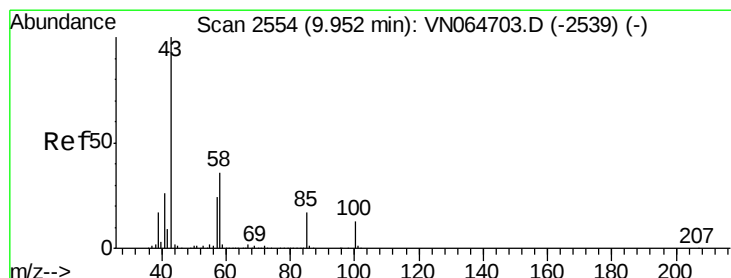
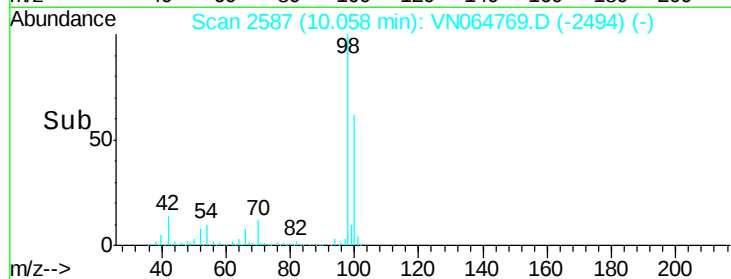
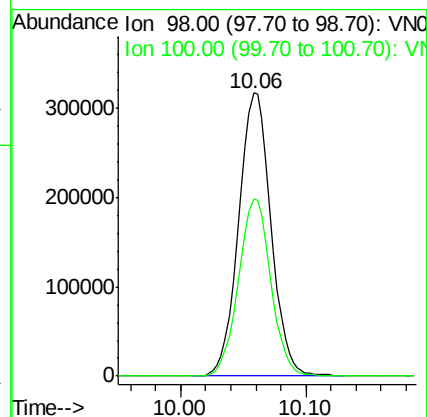
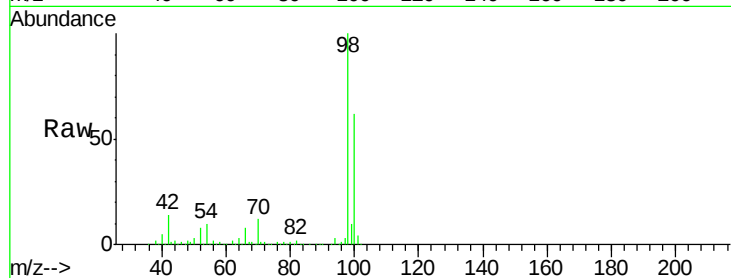
1608

Tgt Ion: 98 Resp: 568971

Ion Ratio Lower Upper

98 100

100 62.7 50.4 75.6



#51

4-Methyl-2-Pentanone

Concen: 6.185 ug/l

RT: 9.93 min Scan# 2547

Delta R.T. -0.02 min

Lab File: VN064769.D

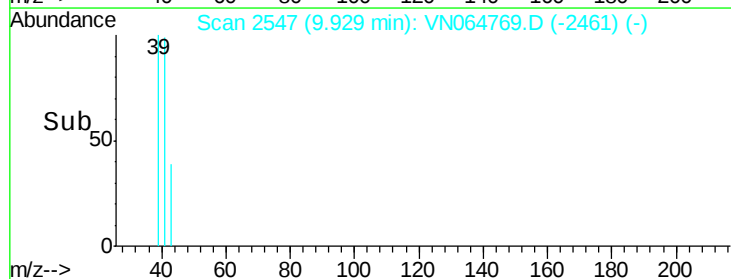
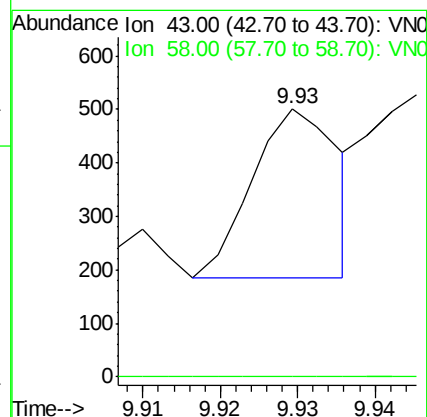
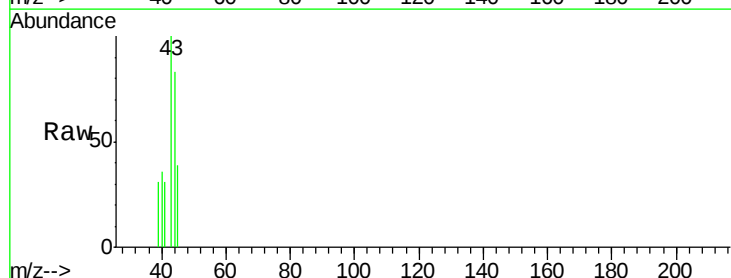
Acq: 20 Nov 2020 8:43

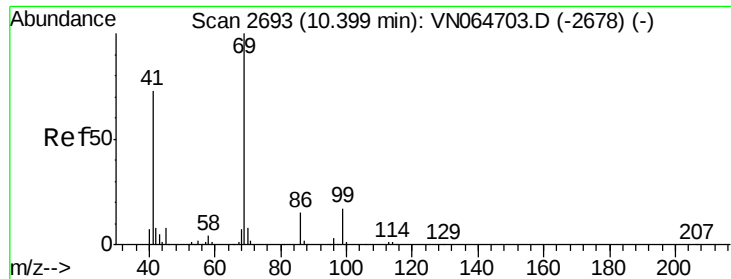
Tgt Ion: 43 Resp: 246

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#





#56

Ethyl methacrylate

Concen: 2.686 ug/l

RT: 10.40 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampled :

1608

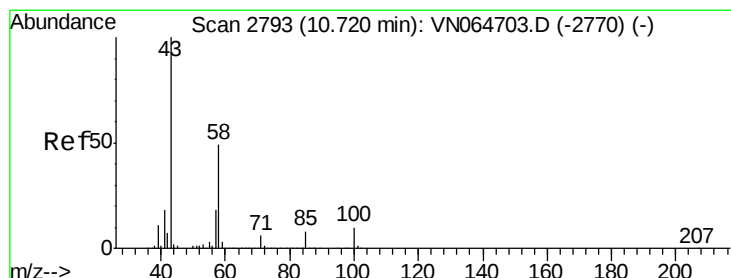
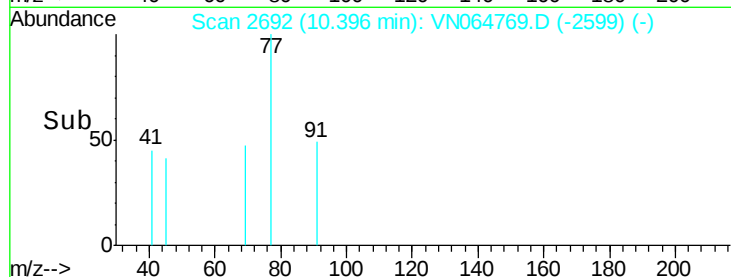
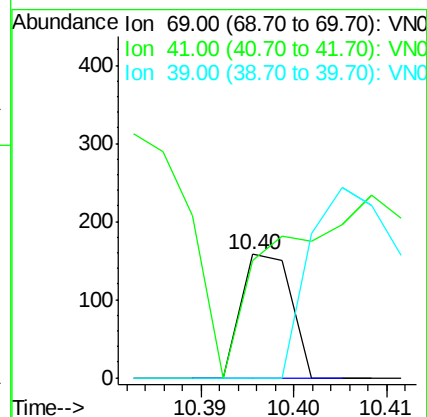
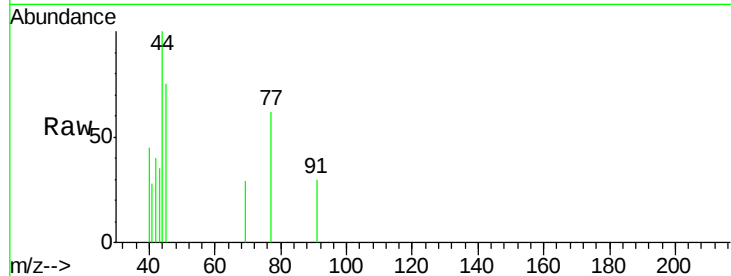
Tgt Ion: 69 Resp: 59

Ion Ratio Lower Upper

69 100

41 372.9 59.0 88.4#

39 313.6 38.4 57.6#



#59

2-Hexanone

Concen: 8.545 ug/l

RT: 10.72 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN064769.D

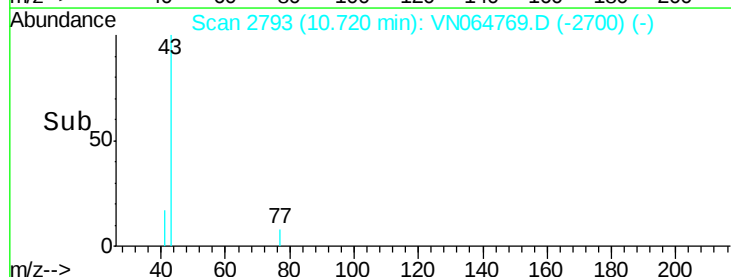
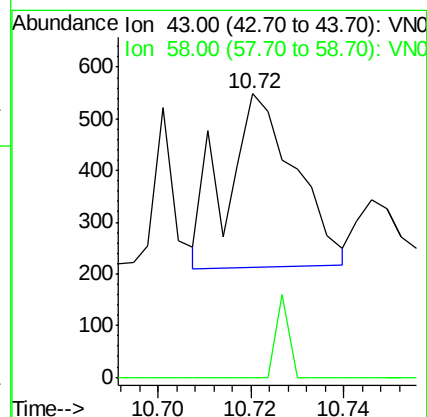
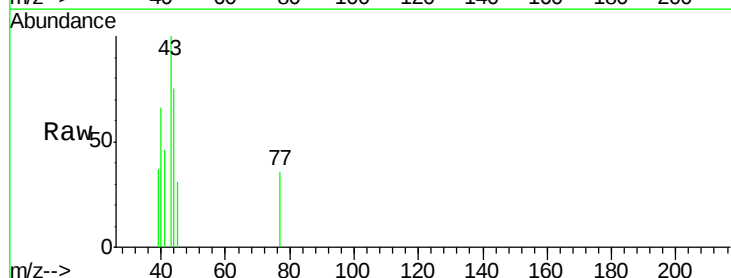
Acq: 20 Nov 2020 8:43

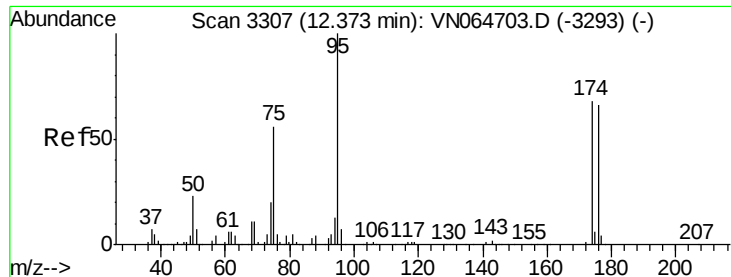
Tgt Ion: 43 Resp: 347

Ion Ratio Lower Upper

43 100

58 8.9 24.4 73.4#

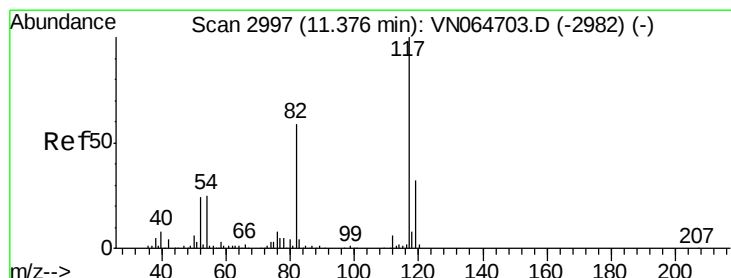
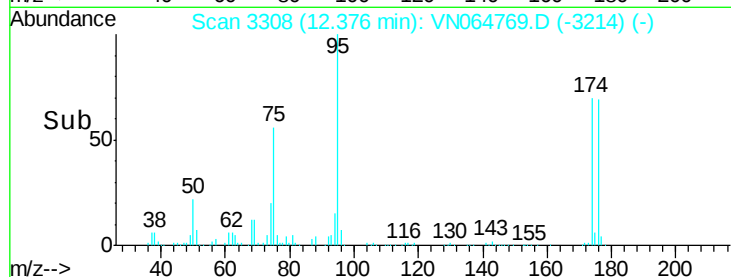
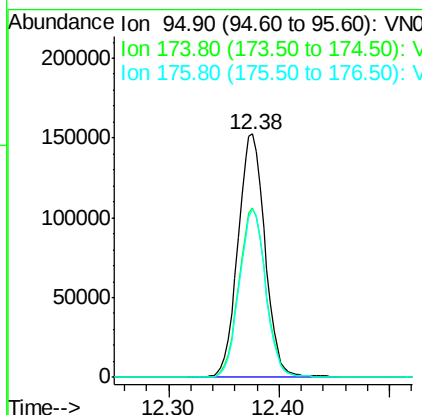
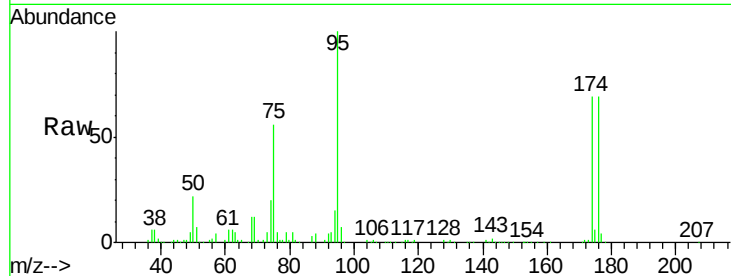




#62
4-Bromofluorobenzene
Concen: 61.880 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064769.D
Acq: 20 Nov 2020 8:43

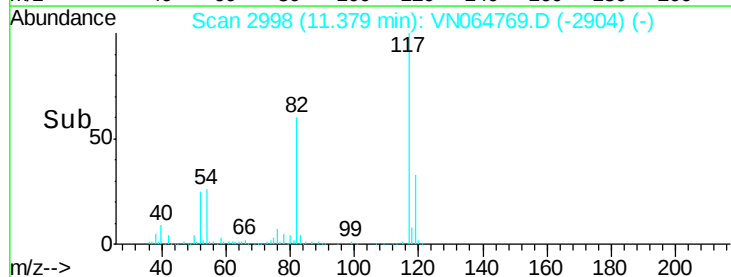
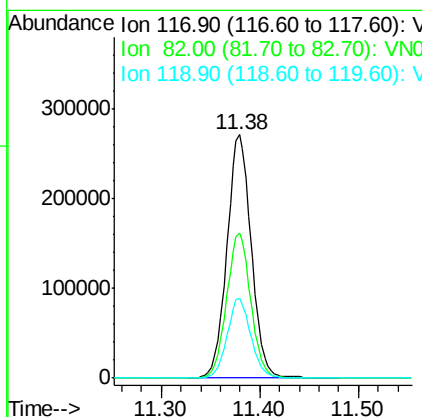
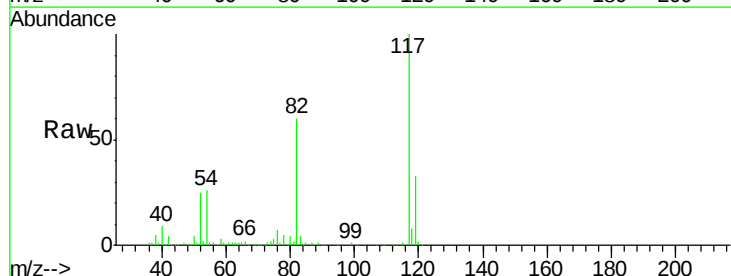
Instrument :
MSVOA_N
ClientSampled :
1608

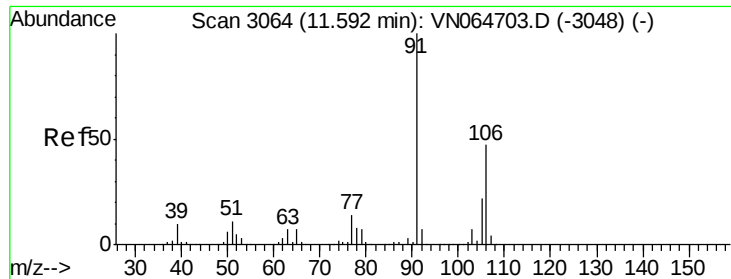
Tgt Ion: 95 Resp: 257880
Ion Ratio Lower Upper
95 100
174 69.4 0.0 136.8
176 67.8 0.0 134.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064769.D
Acq: 20 Nov 2020 8:43

Tgt Ion: 117 Resp: 468110
Ion Ratio Lower Upper
117 100
82 59.7 47.0 70.6
119 32.8 25.4 38.2

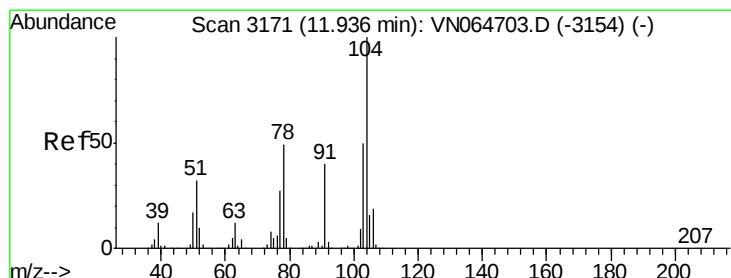
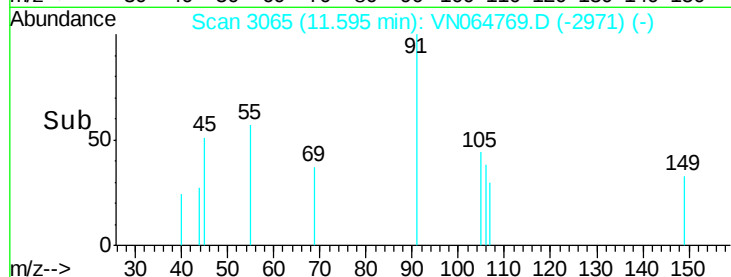
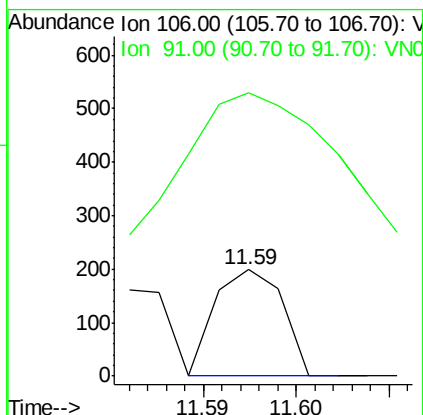
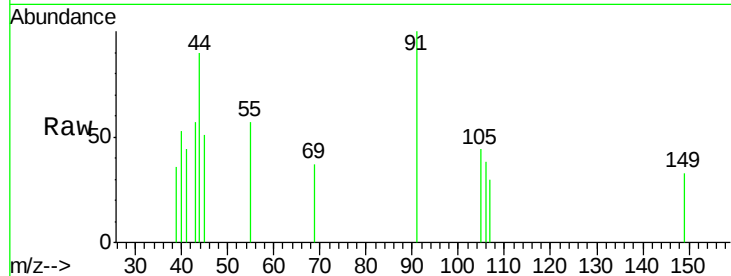




#68
m/p-Xylenes
Concen: 4.076 ug/l
RT: 11.59 min Scan# 3065
Delta R.T. 0.00 min
Lab File: VN064769.D
Acq: 20 Nov 2020 8:43

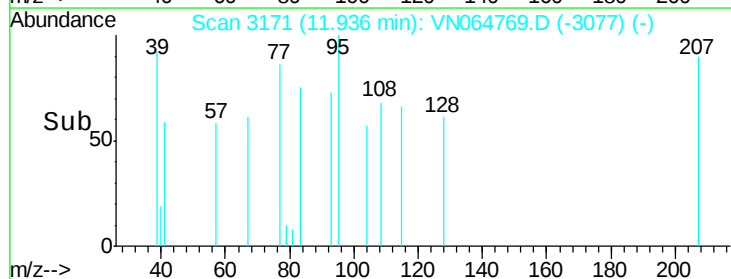
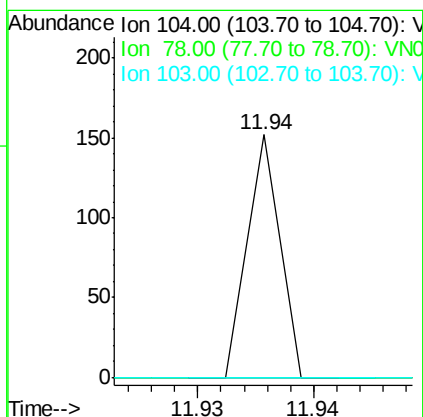
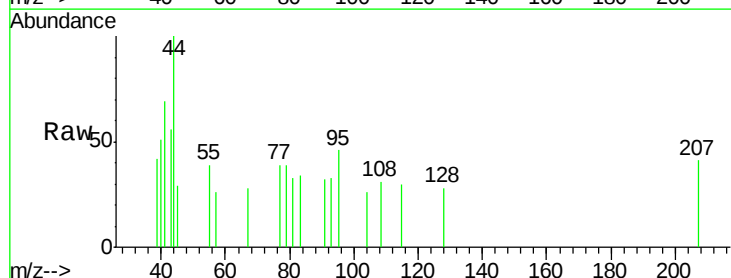
Instrument :
MSVOA_N
ClientSampled :
1608

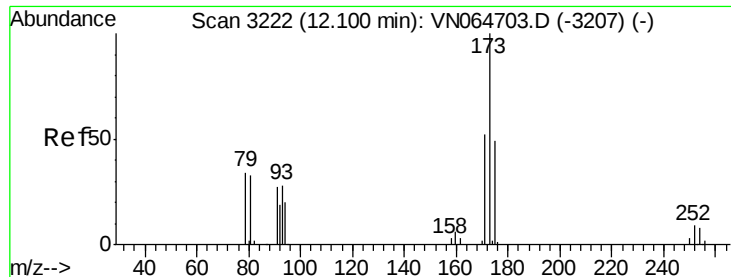
Tgt Ion:106 Resp: 101
Ion Ratio Lower Upper
106 100
91 1036.6 171.9 257.9#



#70
Styrene
Concen: 2.539 ug/l
RT: 11.94 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VN064769.D
Acq: 20 Nov 2020 8:43

Tgt Ion:104 Resp: 29
Ion Ratio Lower Upper
104 100
78 0.0 44.1 66.1#
103 0.0 43.7 65.5#





#71

Bromoform

Concen: 2.467 ug/l

RT: 12.11 min Scan# 3224

Delta R.T. 0.01 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampled :

1608

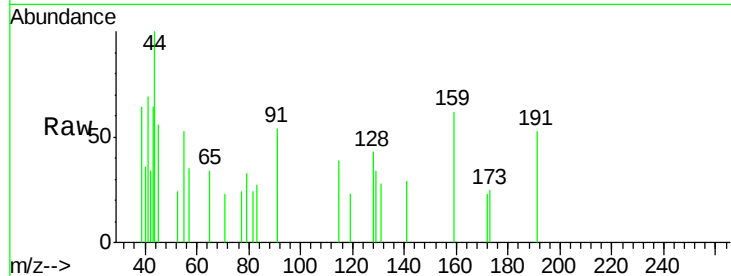
Tgt Ion:173 Resp: 62

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

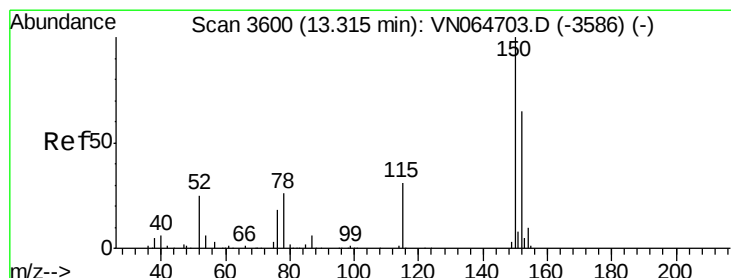
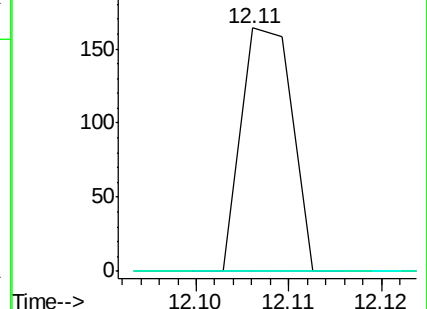
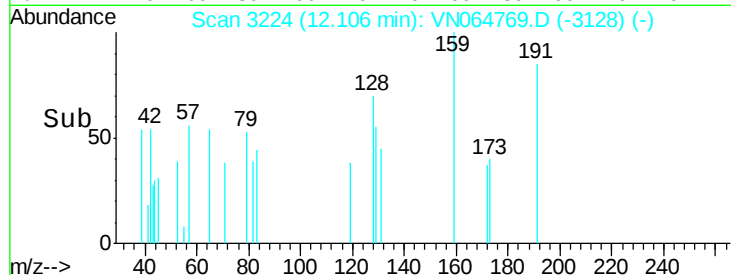
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

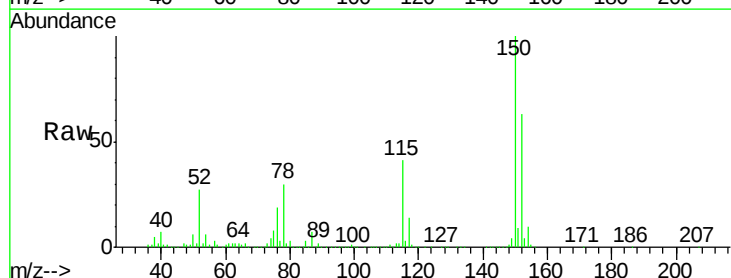
Tgt Ion:152 Resp: 240762

Ion Ratio Lower Upper

152 100

115 64.2 32.1 96.3

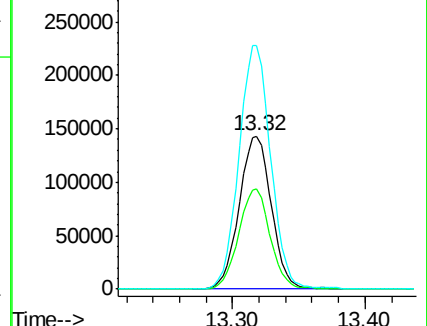
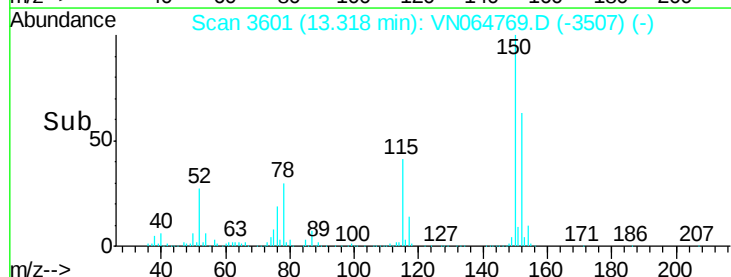
150 157.5 0.0 344.8

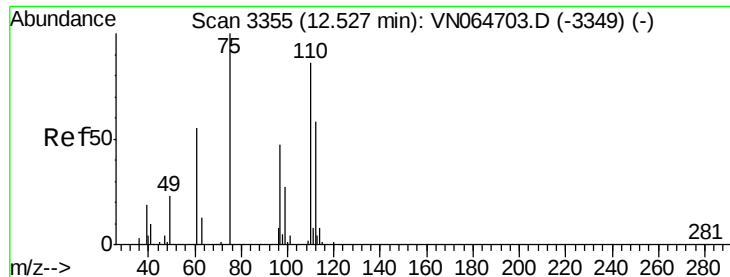


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.011 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampleId :

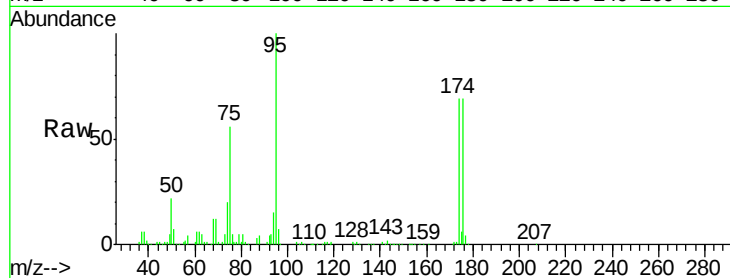
1608

Tgt Ion: 75 Resp: 145308

Ion Ratio Lower Upper

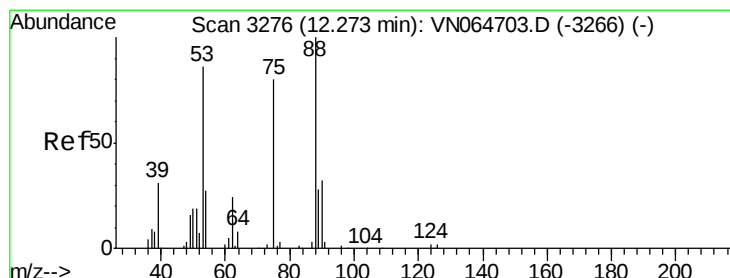
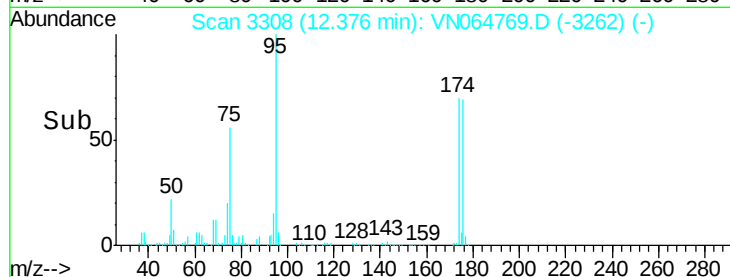
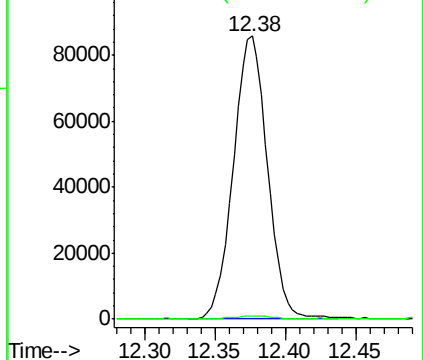
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 71.506 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

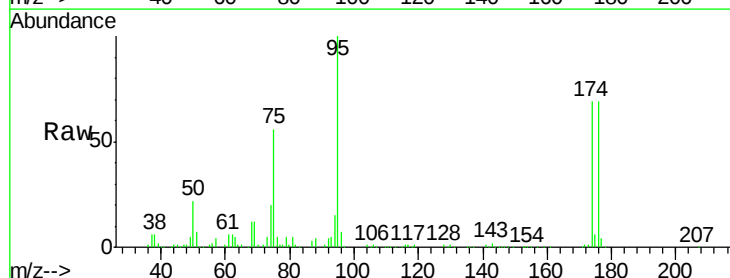
Tgt Ion: 75 Resp: 145308

Ion Ratio Lower Upper

75 100

53 0.2 88.8 133.2#

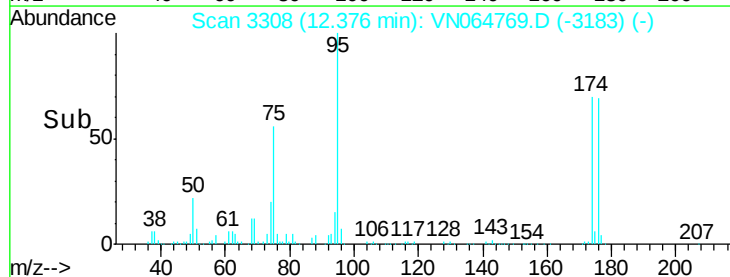
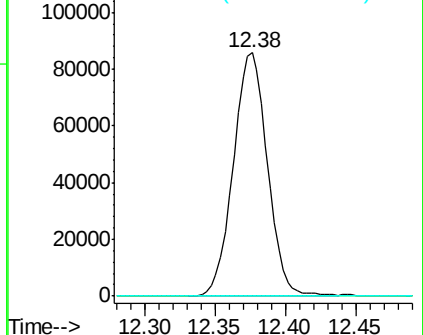
89 0.0 43.1 64.7#

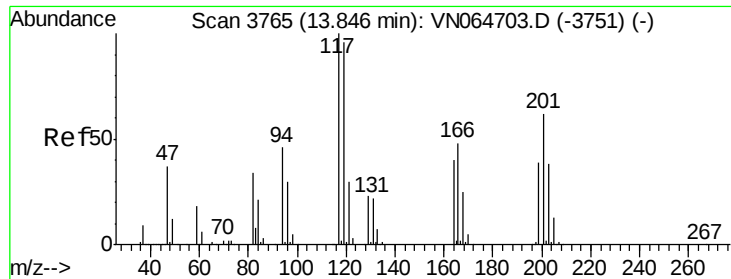


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#90

Hexachloroethane

Concen: 0.239 ug/l

RT: 13.85 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

Instrument :

MSVOA_N

ClientSampled :

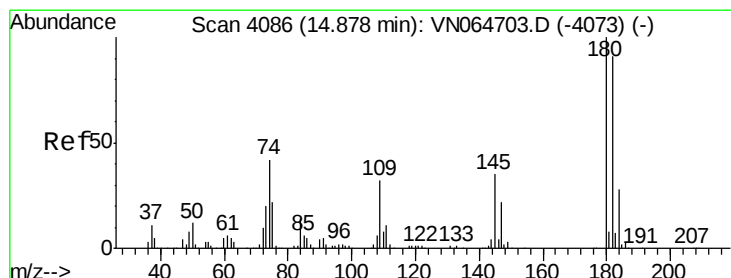
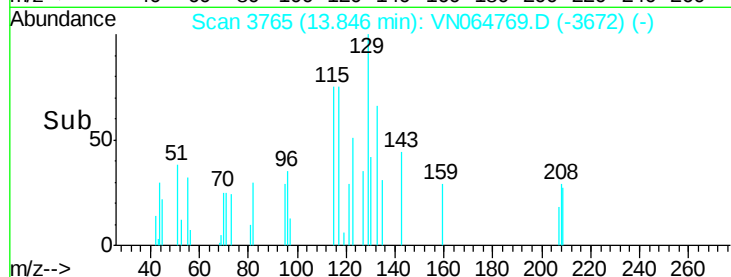
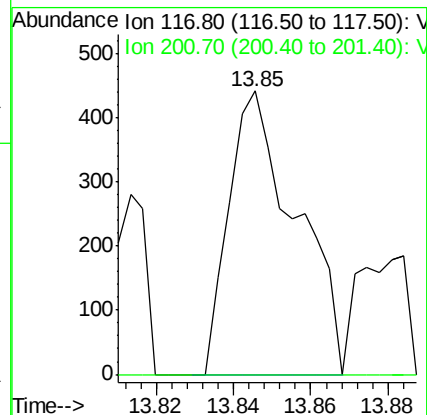
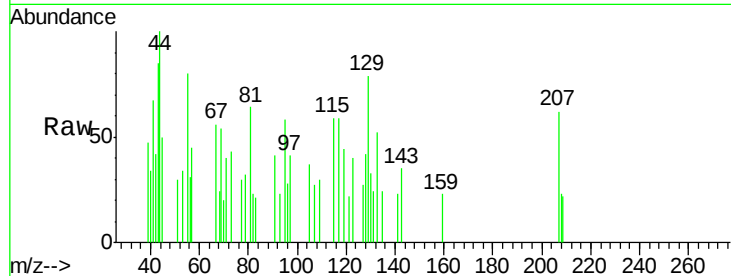
1608

Tgt Ion:117 Resp: 531

Ion Ratio Lower Upper

117 100

201 0.0 31.9 95.5#



#93

1,2,4-Trichlorobenzene

Concen: 1.339 ug/l

RT: 14.89 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN064769.D

Acq: 20 Nov 2020 8:43

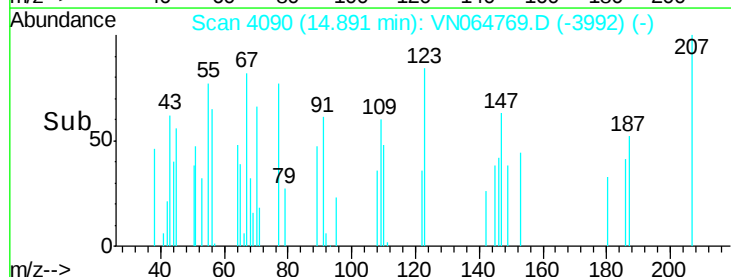
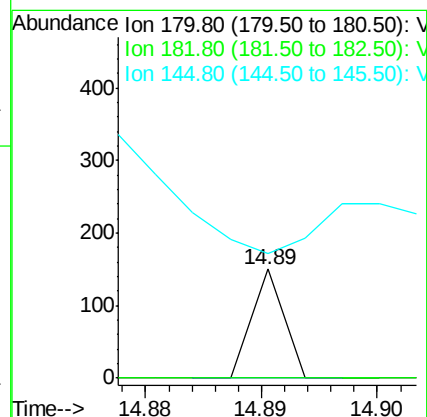
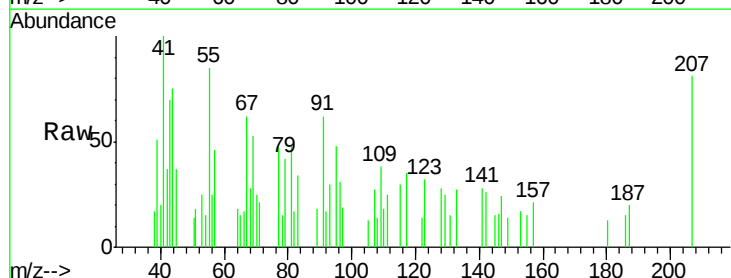
Tgt Ion:180 Resp: 29

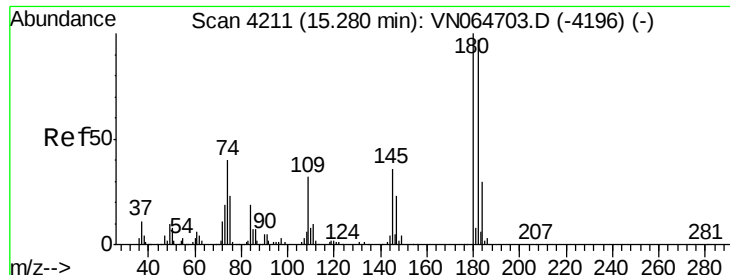
Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.8#

145 396.6 17.5 52.5#

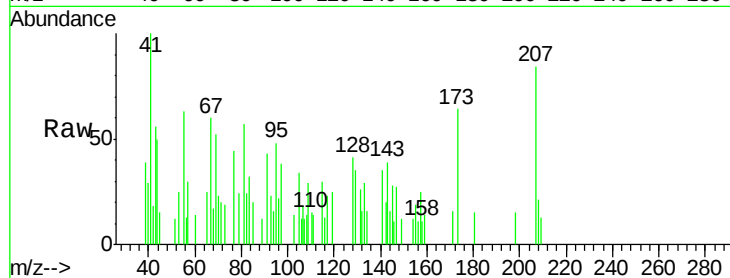




#96
 1,2,3-Trichlorobenzene
 Concen: 0.809 ug/l
 RT: 15.26 min Scan# 4205
 Delta R.T. -0.02 min
 Lab File: VN064769.D
 Acq: 20 Nov 2020 8:43

Instrument :
 MSVOA_N
 ClientSampleId :
 1608

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.5#
145	271.2	18.1	54.1#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

