

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064153.D
 Acq On : 15 Oct 2020 19:07
 Operator : JC/MD
 Sample : L4417-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-12

Quant Time: Oct 16 02:27:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	278109	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	519152	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	555105	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	198746	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	220340	55.63	ug/l	0.00
Spiked Amount						
			Recovery	=	111.26%	
35) Dibromofluoromethane	7.55	113	187118	52.07	ug/l	0.00
Spiked Amount						
			Recovery	=	104.14%	
50) Toluene-d8	10.06	98	690166	50.90	ug/l	0.00
Spiked Amount						
			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	12.38	95	232653	49.92	ug/l	0.00
Spiked Amount						
			Recovery	=	99.84%	

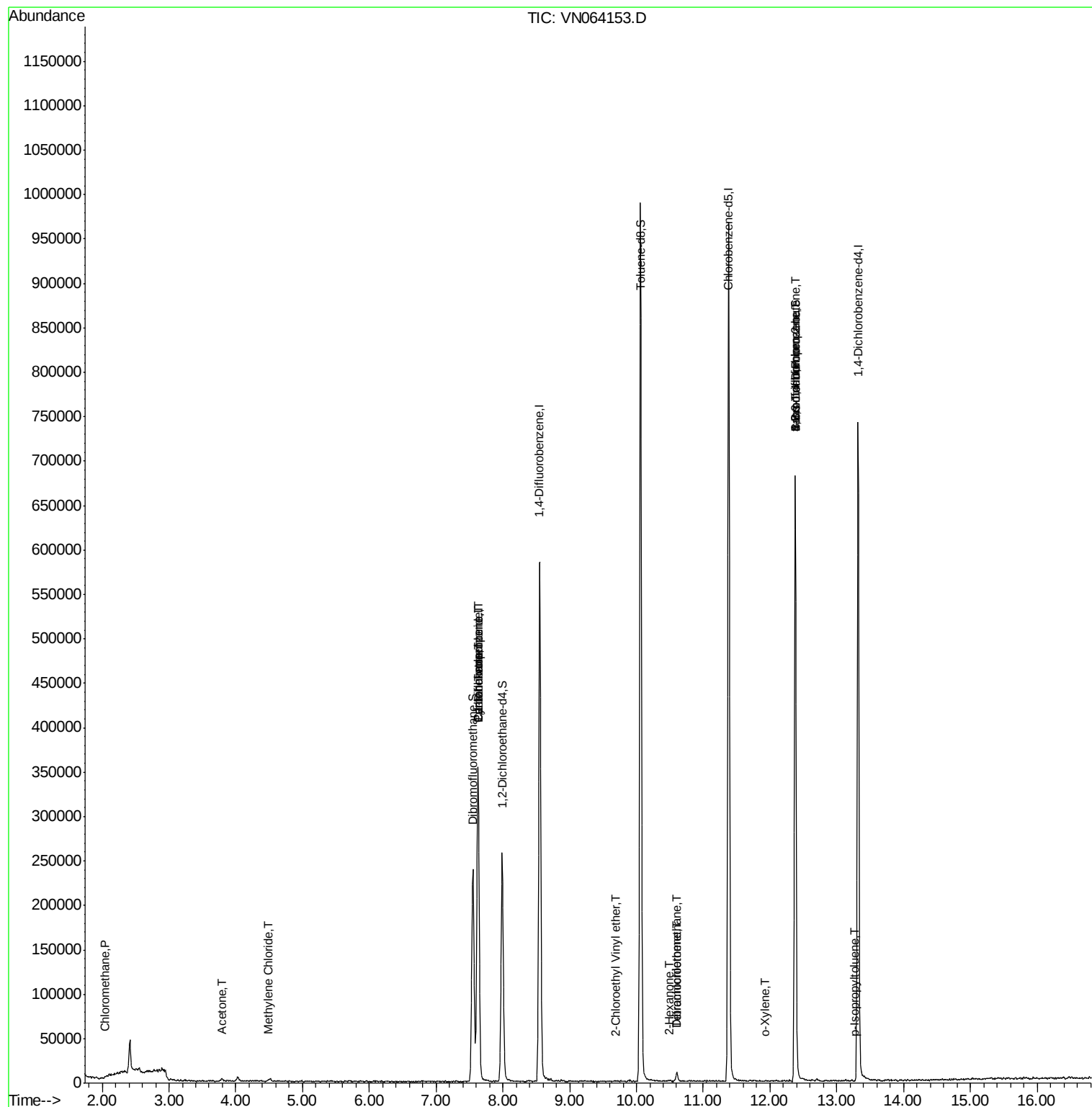
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	1163	0.356	ug/l #	50
16) Acetone	3.79	43	4263	3.629	ug/l #	57
20) Methylene Chloride	4.49	84	985	0.271	ug/l #	70
31) Cyclohexane	7.63	56	6832	1.560	ug/l #	10
36) 1,1-Dichloropropene	7.63	75	22791	4.555	ug/l #	50
38) Carbon Tetrachloride	7.63	117	28678	5.330	ug/l #	17
58) 2-Chloroethyl Vinyl ether	9.70	63	63	12.240	ug/l #	48
59) 2-Hexanone	10.50	43	159	6.884	ug/l	72
60) Dibromochloromethane	10.61	129	1931	0.446	ug/l #	11
64) Tetrachloroethene	10.60	164	1983	0.474	ug/l	91
69) o-Xylene	11.93	106	71	1.592	ug/l #	1
71) Bromoform	12.37	173	1250	2.556	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	123919	26.577	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123919	81.196	ug/l #	12
86) p-Isopropyltoluene	13.25	119	32	0.665	ug/l #	50

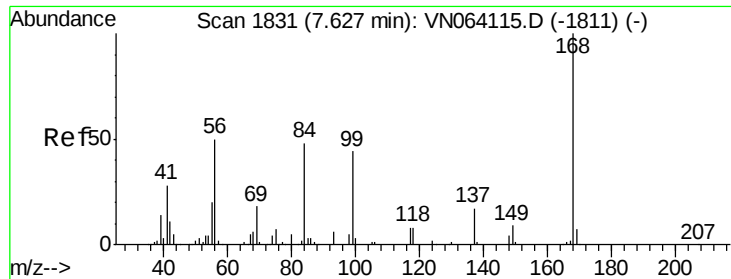
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064153.D

Acq: 15 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

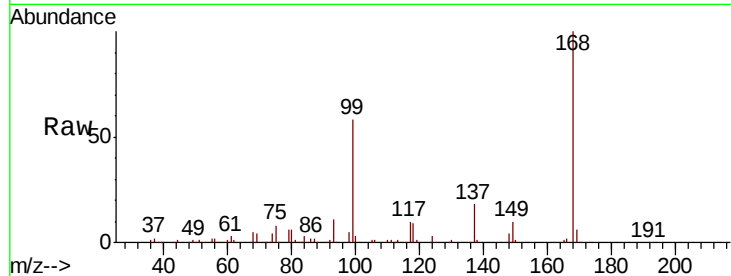
MW-12

Tot Ion:168 Resp: 278109

Ion Ratio Lower Upper

168 100

99 57.7 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

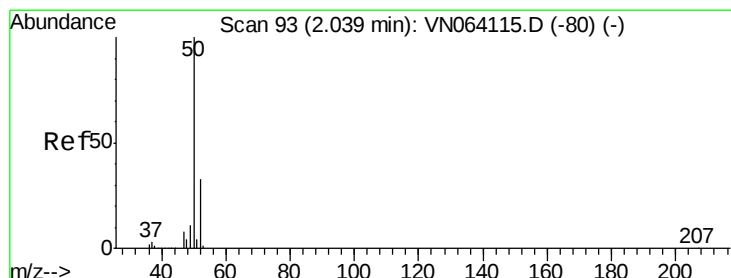
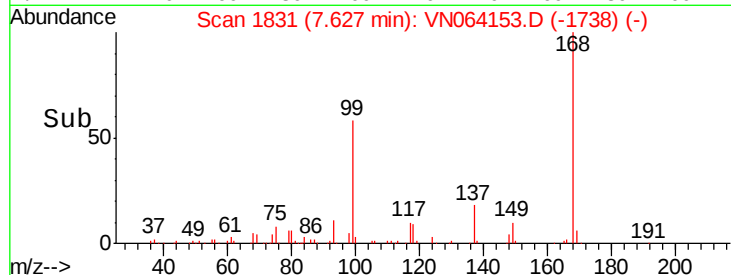
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.356 ug/l

RT: 2.05 min Scan# 95

Delta R.T. 0.01 min

Lab File: VN064153.D

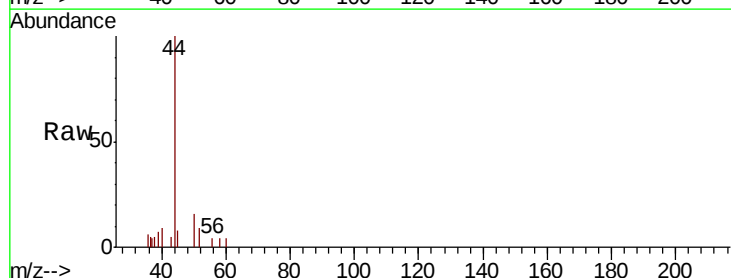
Acq: 15 Oct 2020 19:07

Tgt Ion: 50 Resp: 1163

Ion Ratio Lower Upper

50 100

52 60.5 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.05

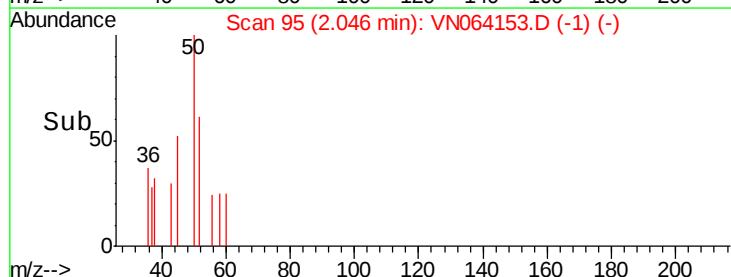
600

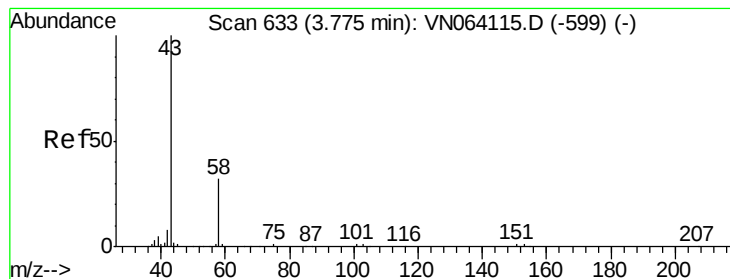
400

200

0

Time--> 2.00 2.05





#16

Acetone

Concen: 3.629 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

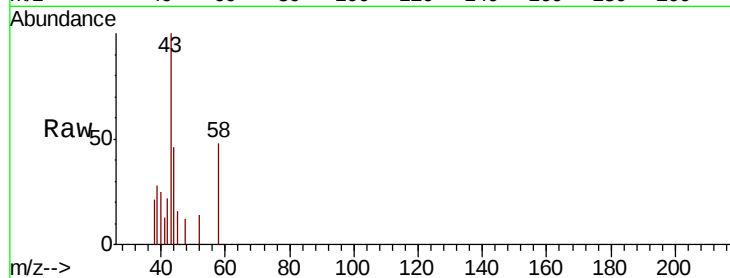
MW-12

Tot Ion: 43 Resp: 4263

Ion Ratio Lower Upper

43 100

58 55.3 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VN064115.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN064115.D (-599) (-)

3.79

1500

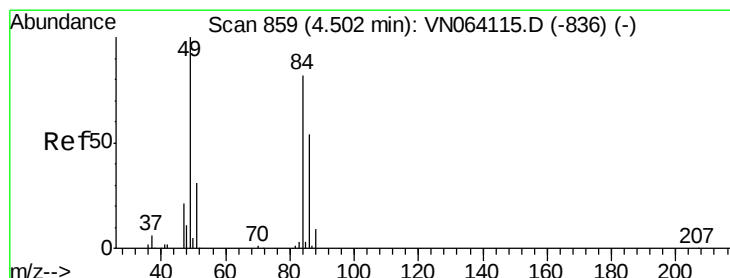
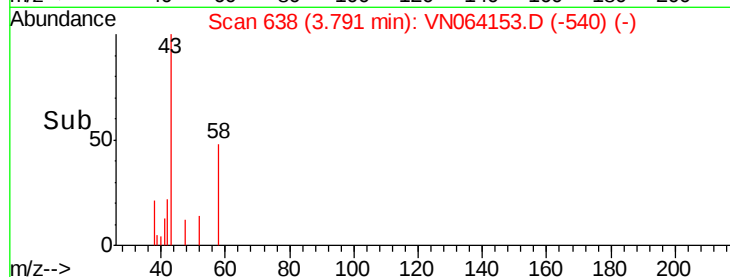
1000

500

0

3.75 3.80 3.85

Time-->



#20

Methylene Chloride

Concen: 0.271 ug/l

RT: 4.49 min Scan# 856

Delta R.T. -0.01 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

Tgt Ion: 84 Resp: 985

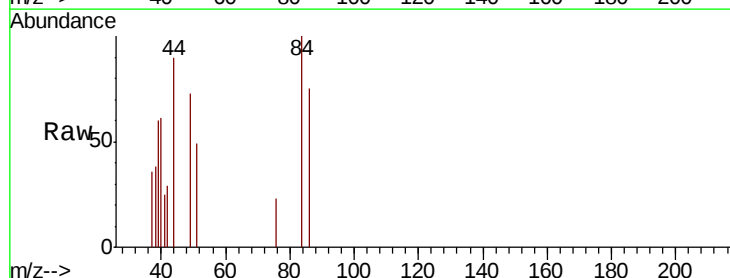
Ion Ratio Lower Upper

84 100

49 73.4 97.4 146.0#

51 49.0 29.7 44.5#

86 74.9 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VN064115.D (-836) (-)

Ion 48.90 (48.60 to 49.60): VN064115.D (-836) (-)

Ion 50.90 (50.60 to 51.60): VN064115.D (-836) (-)

Ion 85.90 (85.60 to 86.60): VN064115.D (-836) (-)

4.49

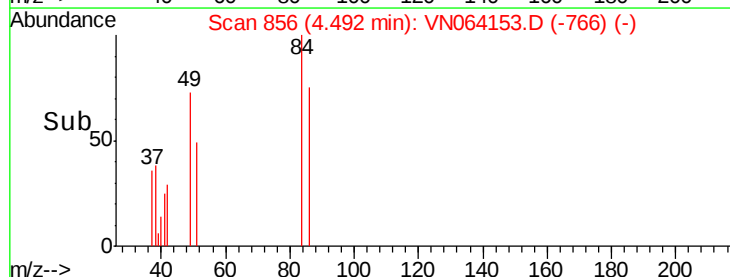
1000

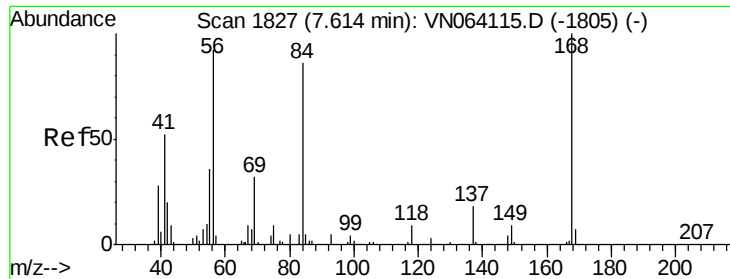
500

0

4.46 4.48 4.50

Time-->

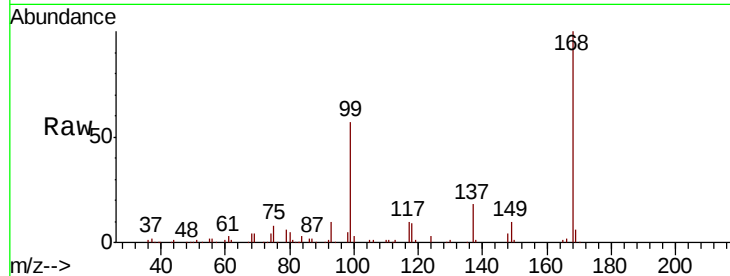




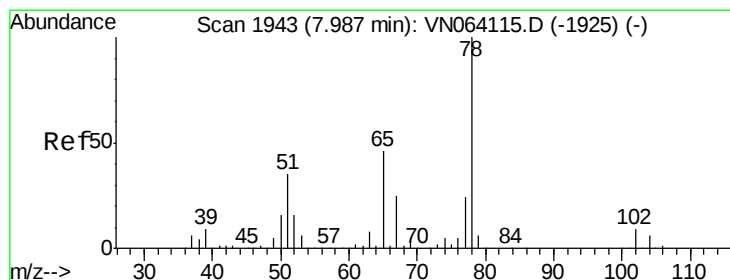
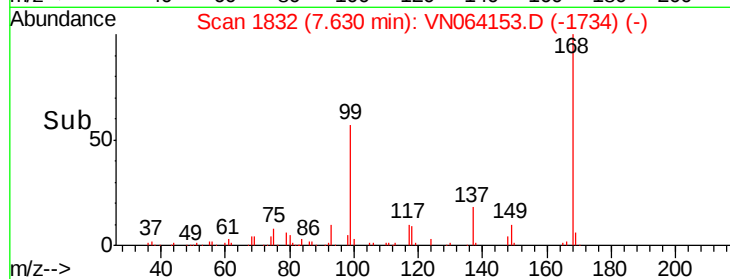
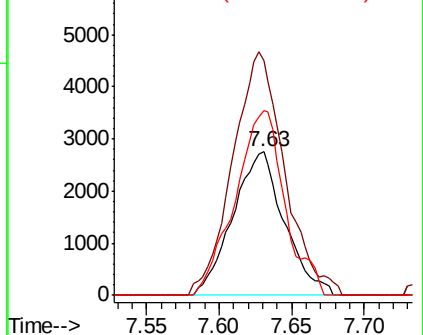
#31
Cyclohexane
Concen: 1.560 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN064153.D
Acq: 15 Oct 2020 19:07

Instrument :
MSVOA_N
ClientSampled :
MW-12

Tot Ion: 56 Resp: 6832
Ion Ratio Lower Upper
56 100
69 163.5 27.8 41.6#
84 128.8 73.2 109.8#

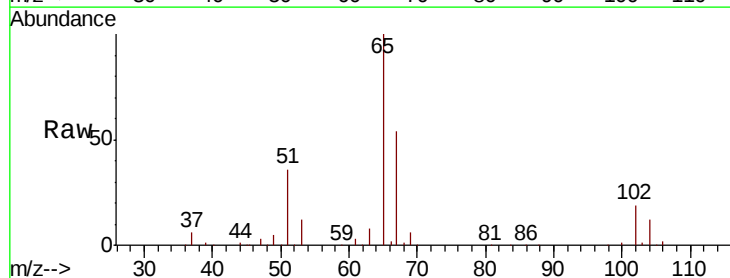


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

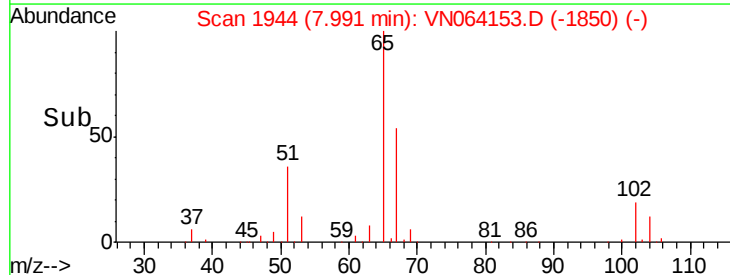
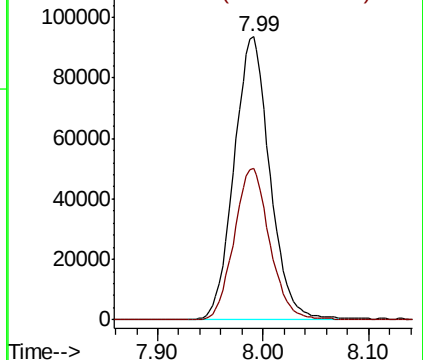


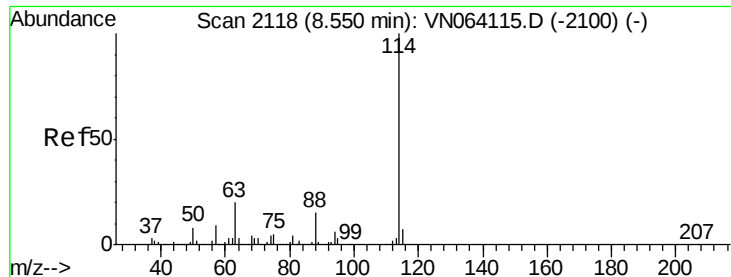
#33
1,2-Dichloroethane-d4
Concen: 55.630 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064153.D
Acq: 15 Oct 2020 19:07

Tgt Ion: 65 Resp: 220340
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

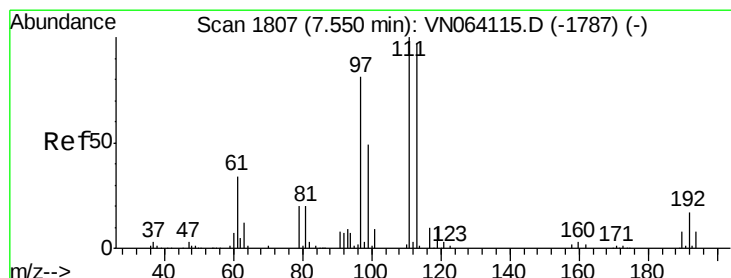
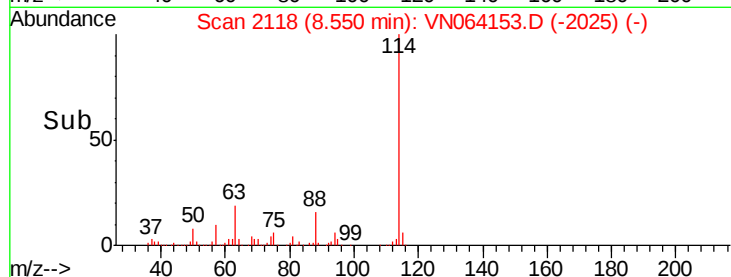
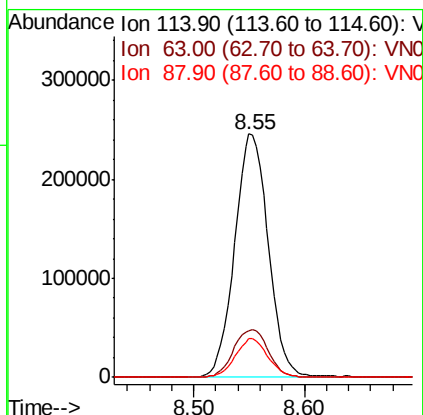
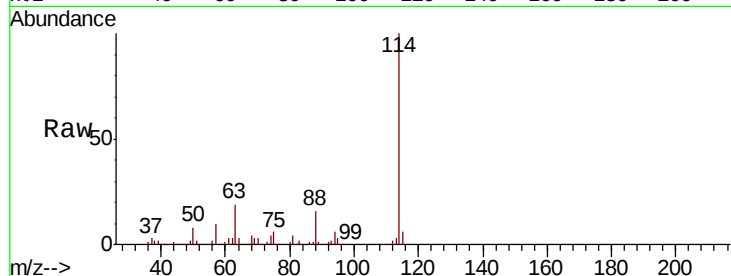




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064153.D
 Acq: 15 Oct 2020 19:07

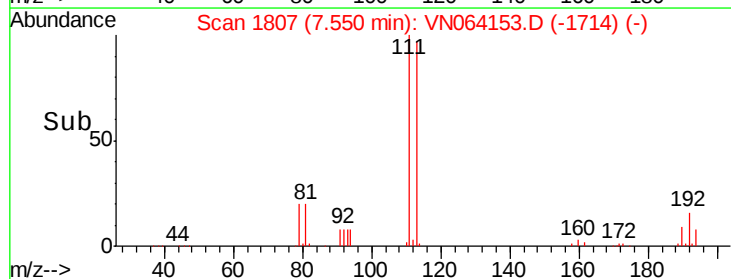
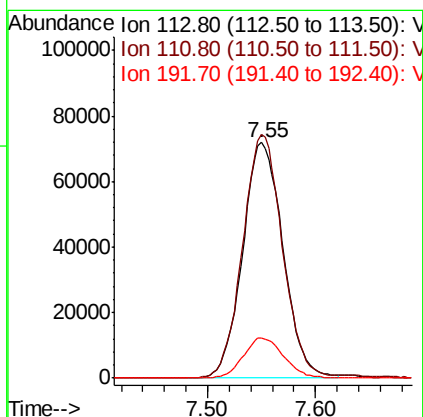
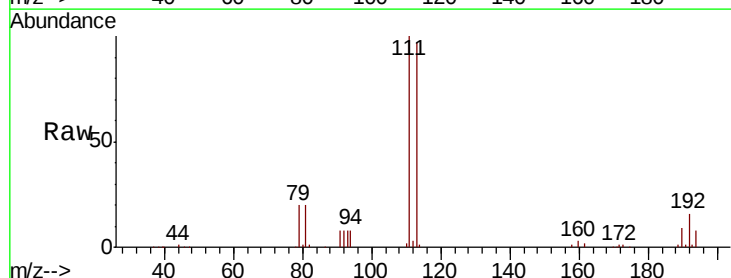
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-12

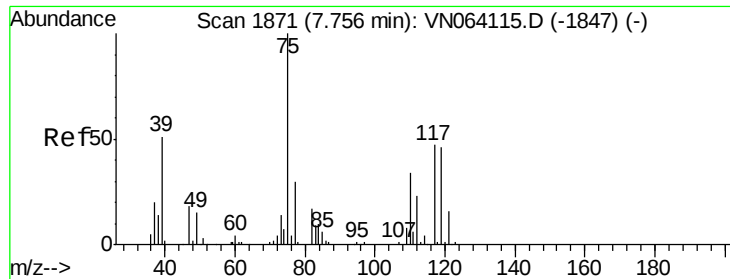
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	41.0
88	15.7	0.0	29.2



#35
 Dibromofluoromethane
 Concen: 52.074 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064153.D
 Acq: 15 Oct 2020 19:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	16.8	14.3	21.5

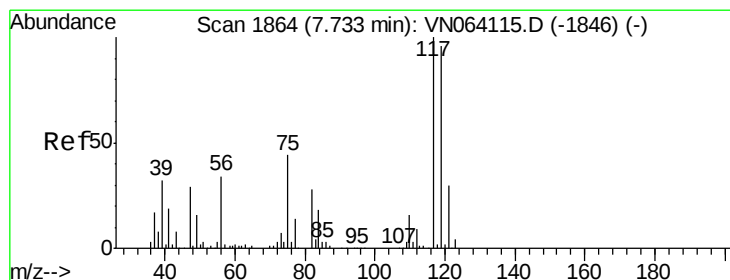
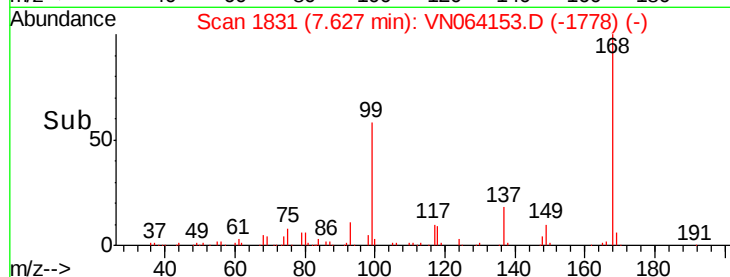
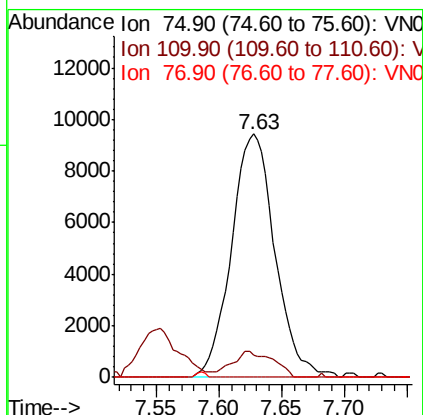
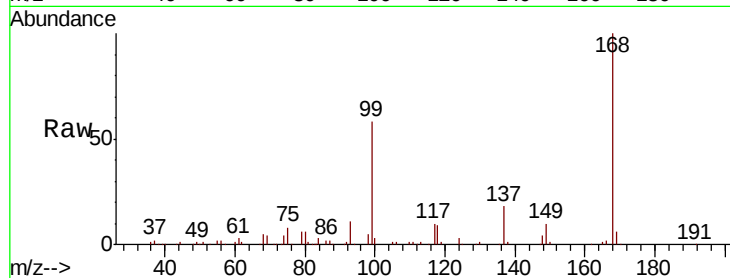




#36
 1,1-Dichloropropene
 Concen: 4.555 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064153.D
 Acq: 15 Oct 2020 19:07

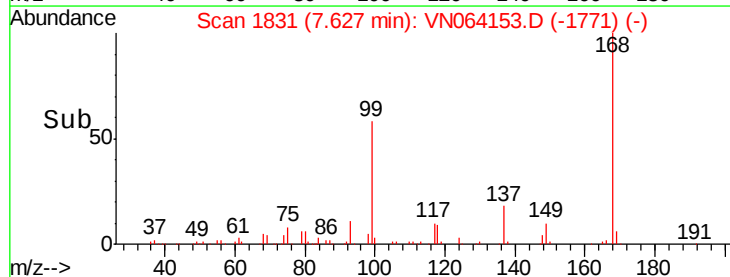
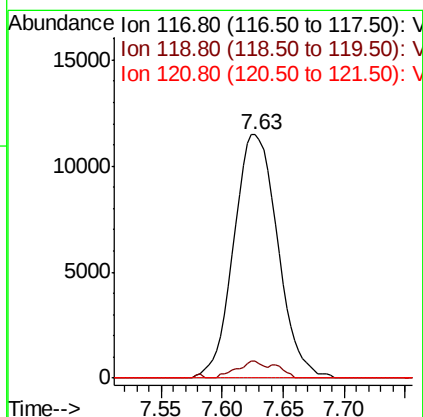
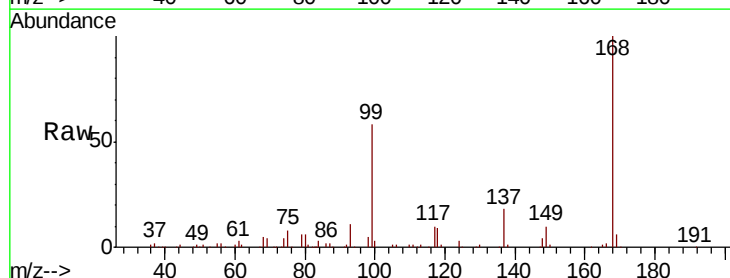
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-12

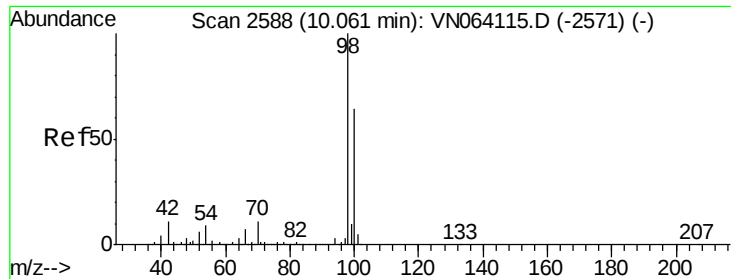
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	17.8	53.3#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.330 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064153.D
 Acq: 15 Oct 2020 19:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	77.0	115.4#
121	0.0	24.2	36.4#





#50

Toluene-d8

Concen: 50.904 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

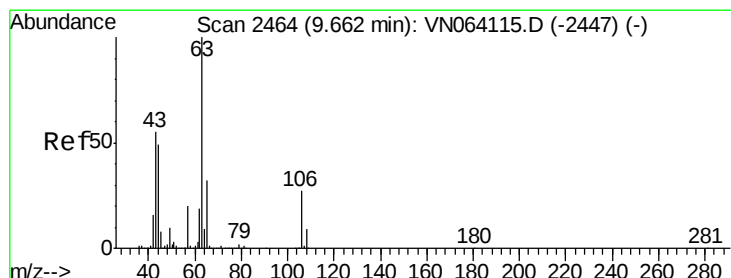
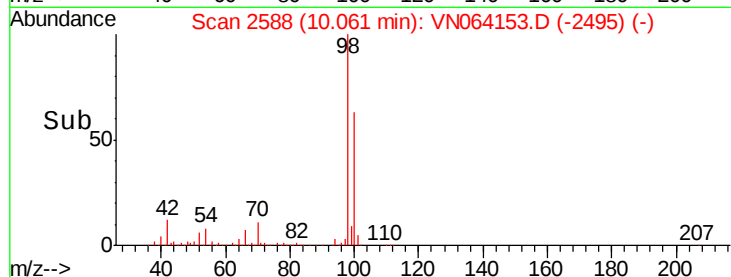
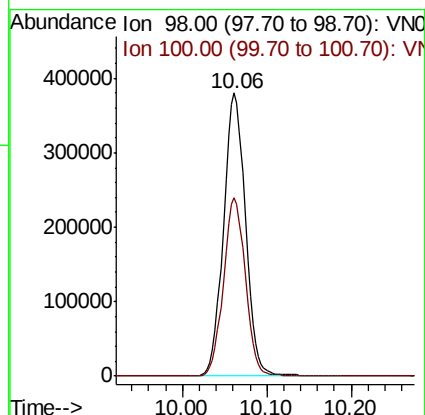
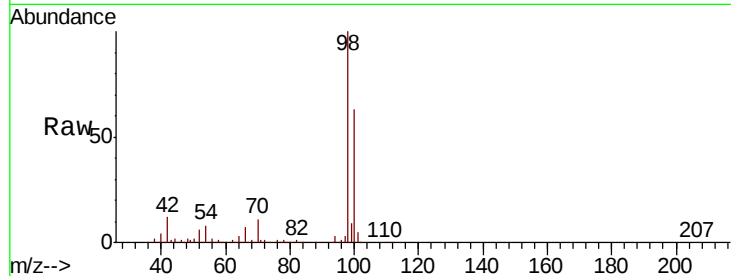
MW-12

Tot Ion: 98 Resp: 690166

Ion Ratio Lower Upper

98 100

100 62.6 50.8 76.2



#58

2-Chloroethyl Vinyl ether

Concen: 12.240 ug/l

RT: 9.70 min Scan# 2477

Delta R.T. 0.04 min

Lab File: VN064153.D

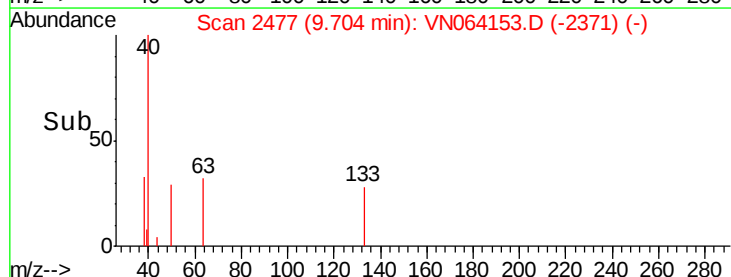
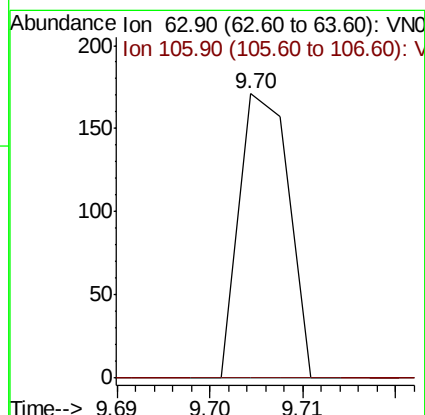
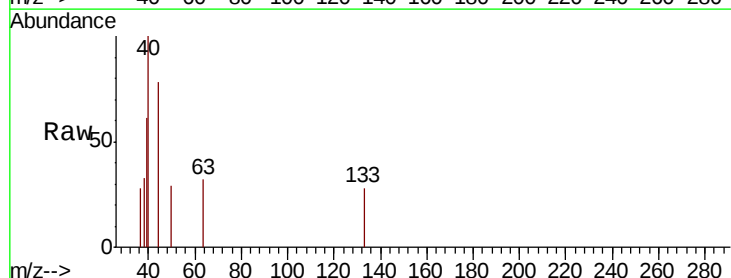
Acq: 15 Oct 2020 19:07

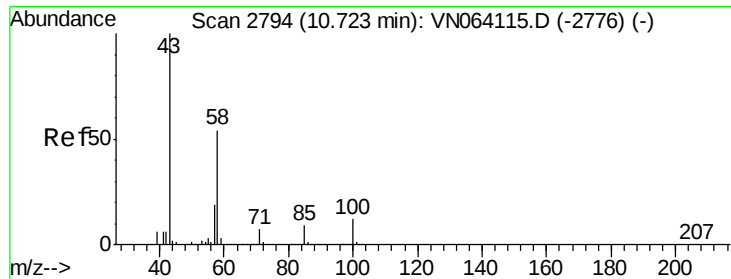
Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

106 0.0 21.8 32.6#

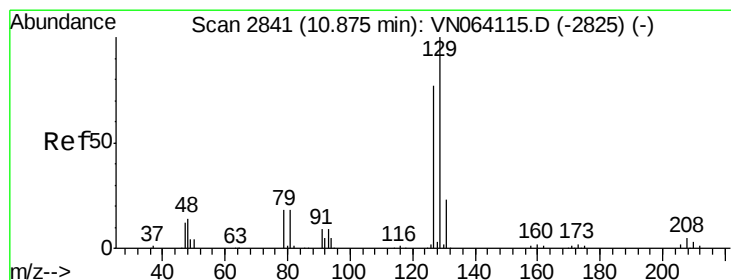
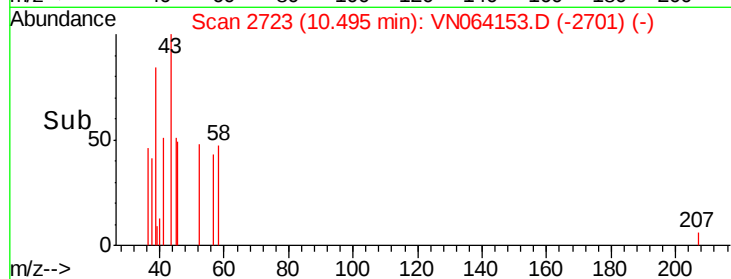
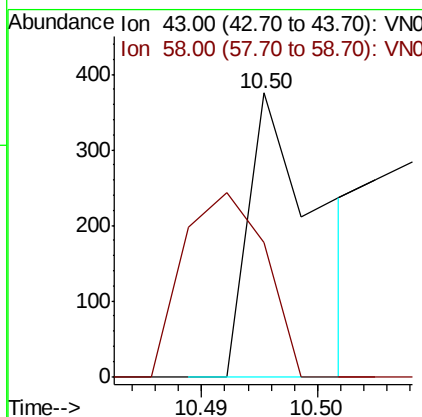
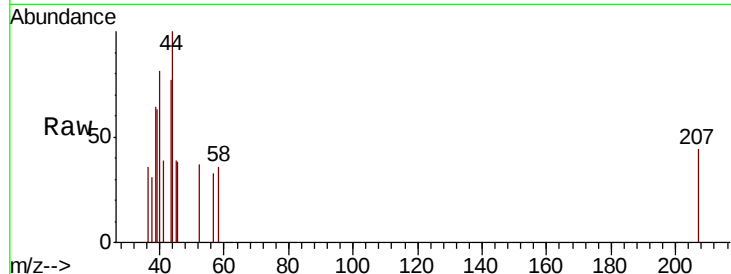




#59
2-Hexanone
Concen: 6.884 ug/l
RT: 10.50 min Scan# 2723
Delta R.T. -0.23 min
Lab File: VN064153.D
Acq: 15 Oct 2020 19:07

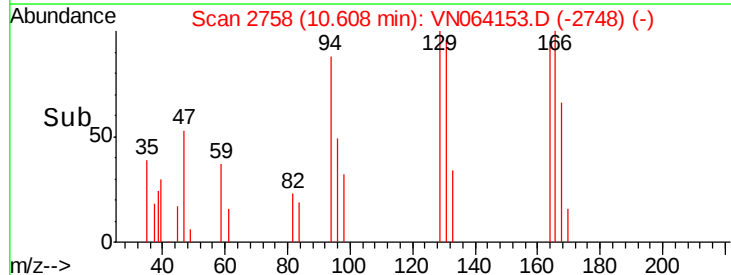
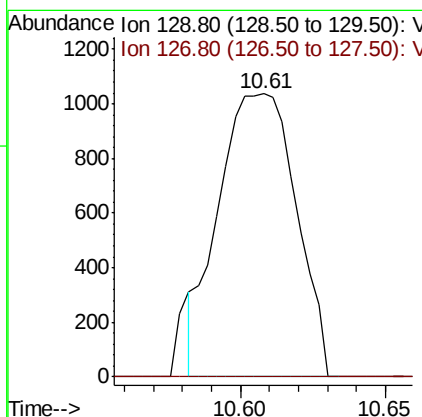
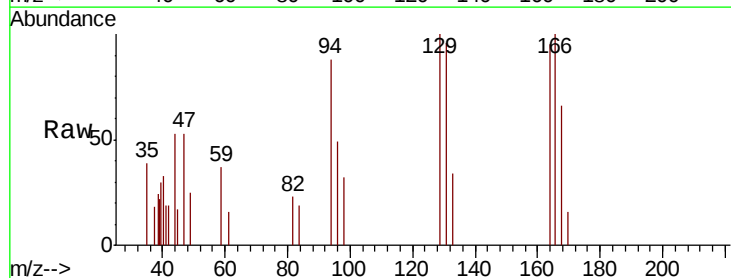
Instrument :
MSVOA_N
ClientSampled :
MW-12

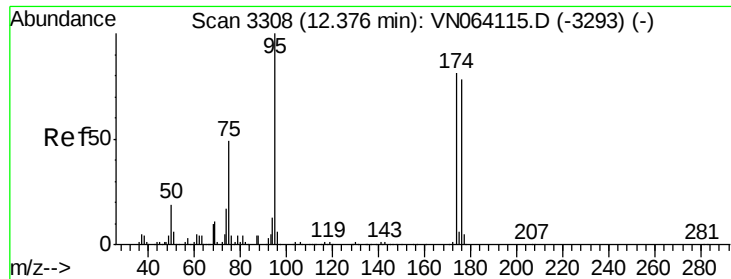
Tot Ion: 43 Resp: 159
Ion Ratio Lower Upper
43 100
58 74.8 27.2 81.6



#60
Dibromochloromethane
Concen: 0.446 ug/l
RT: 10.61 min Scan# 2758
Delta R.T. -0.27 min
Lab File: VN064153.D
Acq: 15 Oct 2020 19:07

Tgt Ion: 129 Resp: 1931
Ion Ratio Lower Upper
129 100
127 0.0 38.2 114.6#

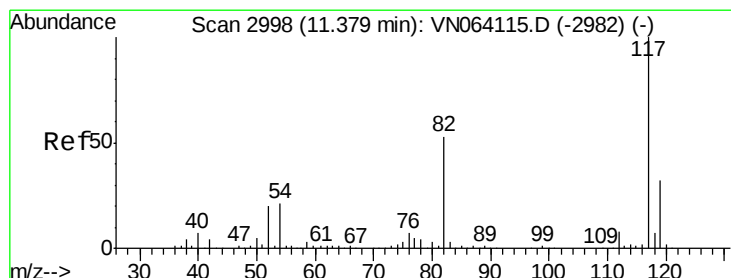
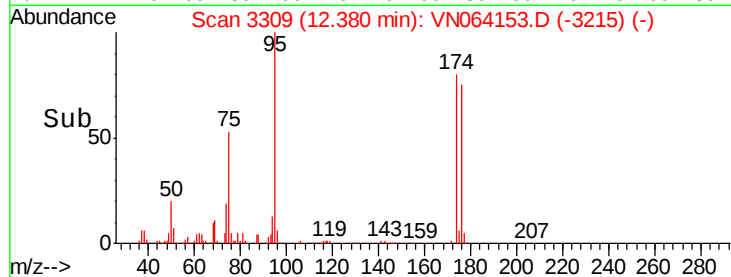
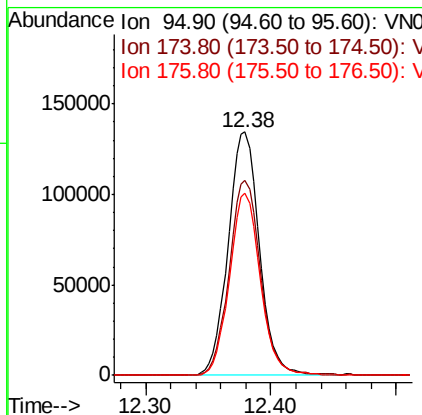
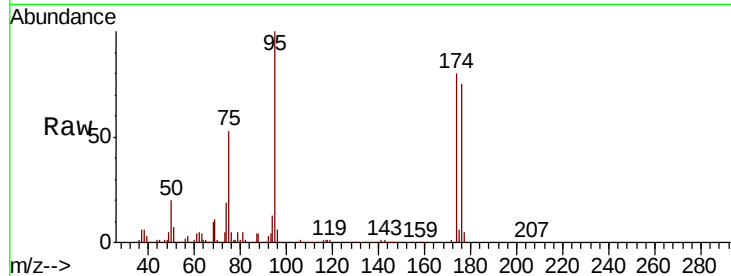




#62
4-Bromofluorobenzene
Concen: 49.923 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN064153.D
Acq: 15 Oct 2020 19:07

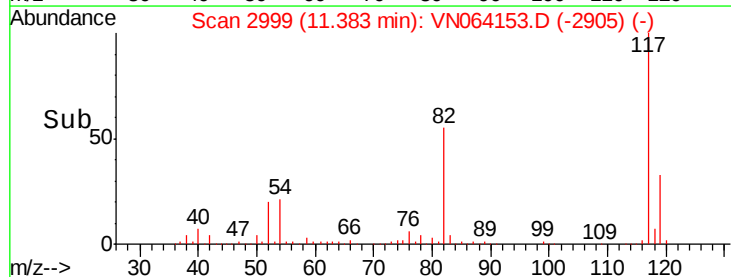
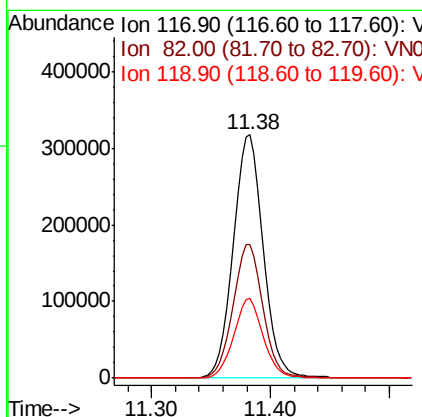
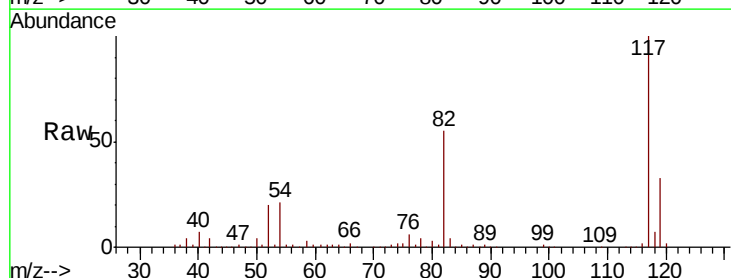
Instrument :
MSVOA_N
ClientSampleId :
MW-12

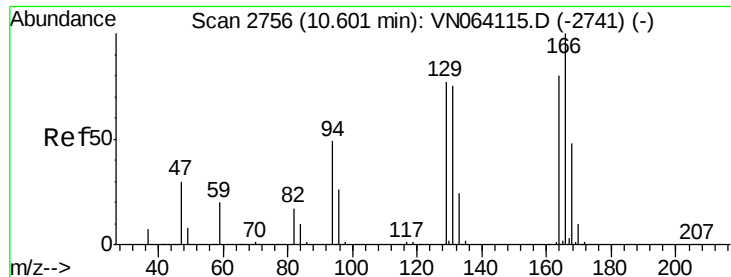
Tot Ion: 95 Resp: 232653
Ion Ratio Lower Upper
95 100
174 80.2 0.0 164.8
176 74.1 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN064153.D
Acq: 15 Oct 2020 19:07

Tgt Ion: 117 Resp: 555105
Ion Ratio Lower Upper
117 100
82 54.7 42.6 63.8
119 32.7 25.5 38.3





#64

Tetrachloroethene

Concen: 0.474 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

MW-12

Tot Ion:164 Resp: 1983

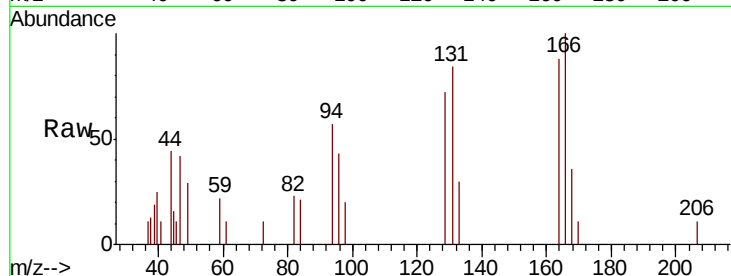
Ion Ratio Lower Upper

164 100

166 114.2 99.7 149.5

129 82.2 77.0 115.4

131 96.3 74.6 111.8

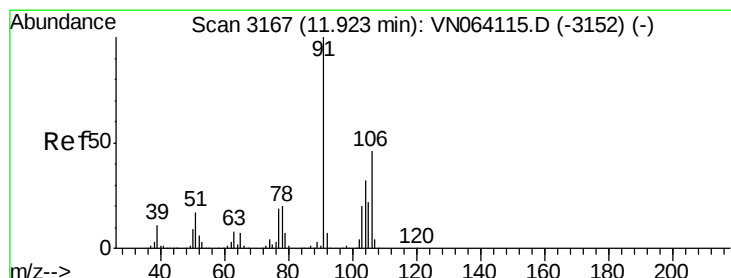
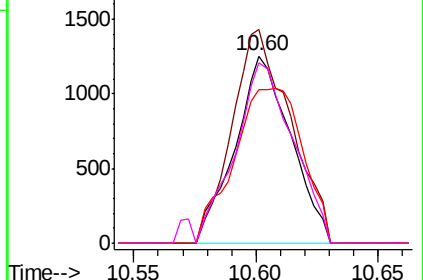
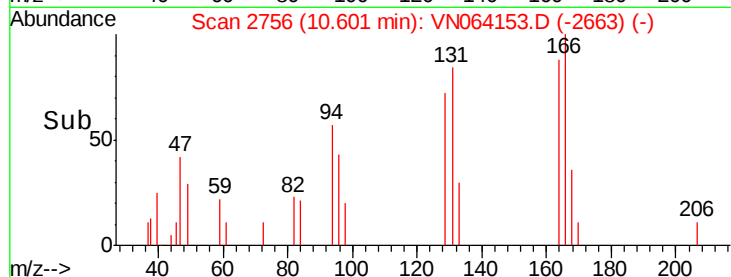


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#69

o-Xylene

Concen: 1.592 ug/l

RT: 11.93 min Scan# 3169

Delta R.T. 0.01 min

Lab File: VN064153.D

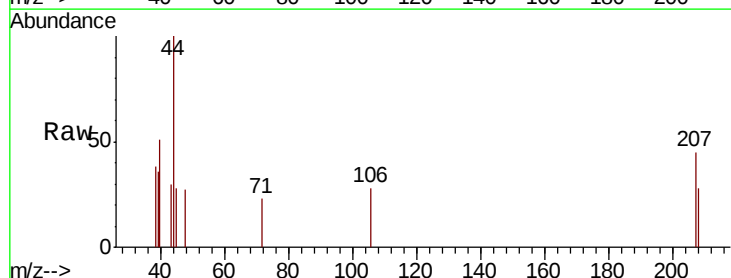
Acq: 15 Oct 2020 19:07

Tgt Ion:106 Resp: 71

Ion Ratio Lower Upper

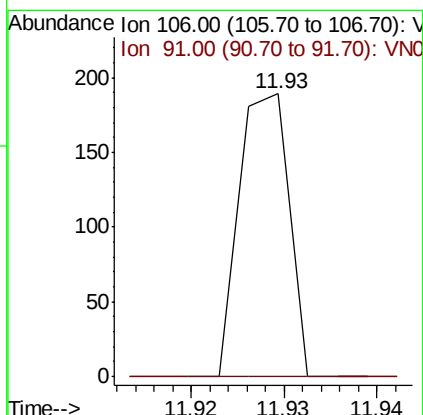
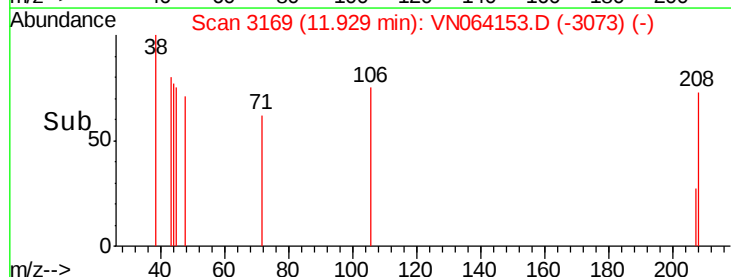
106 100

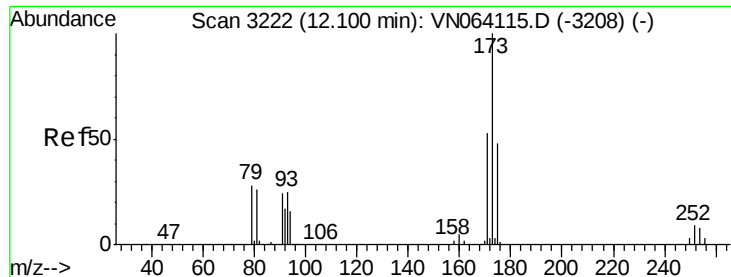
91 0.0 107.6 322.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#71

Bromoform

Concen: 2.556 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-12

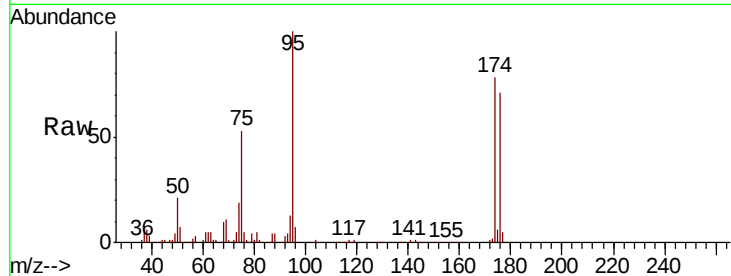
Tot Ion:173 Resp: 1250

Ion Ratio Lower Upper

173 100

175 892.6 23.4 70.2#

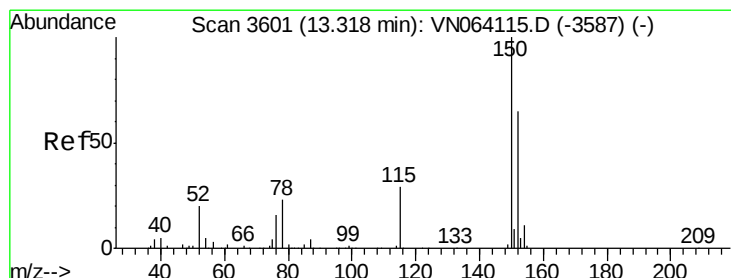
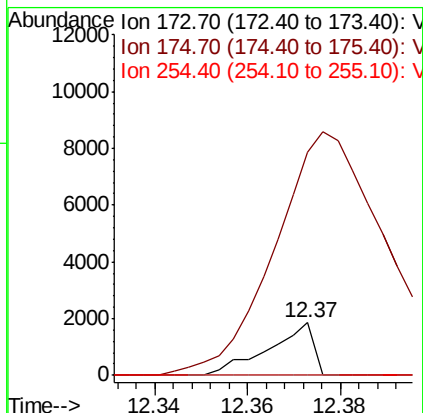
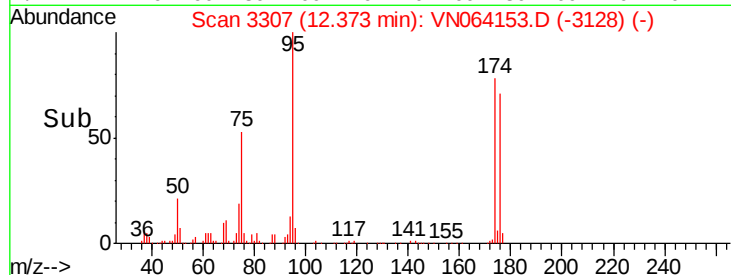
254 0.0 0.1 0.1#



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: VN064153.D

Acq: 15 Oct 2020 19:07

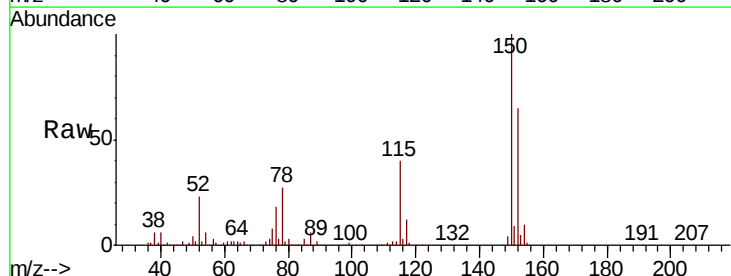
Tgt Ion:152 Resp: 198746

Ion Ratio Lower Upper

152 100

115 62.2 29.3 87.8

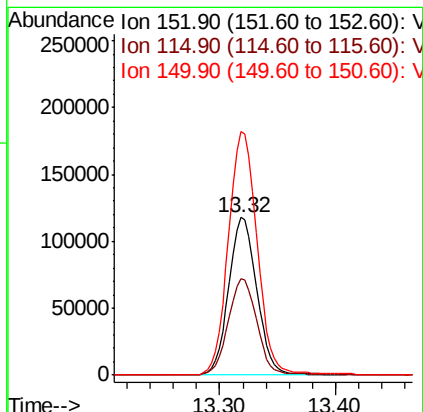
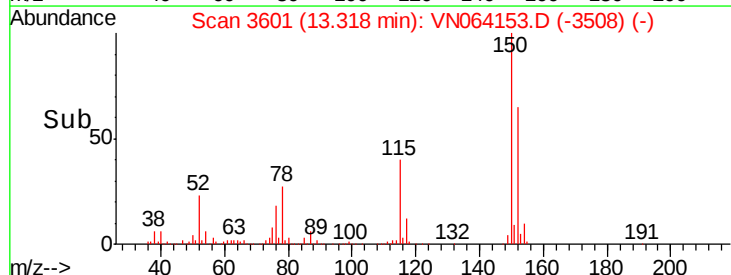
150 157.6 0.0 346.0

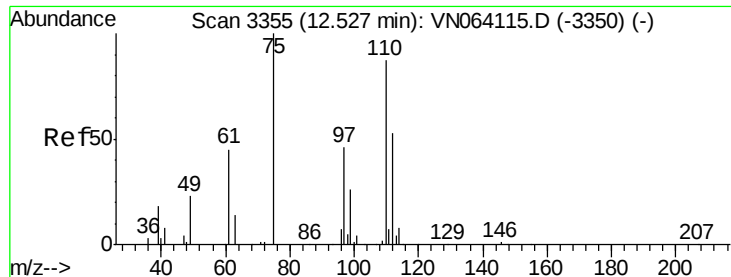


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.577 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

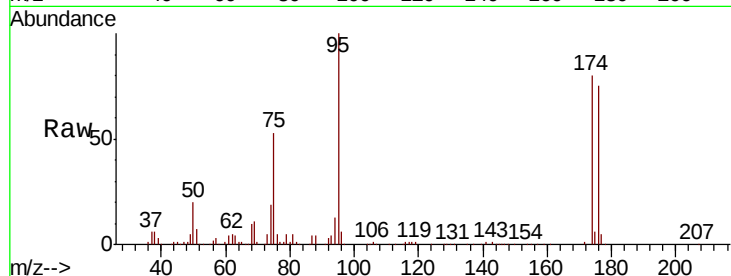
MW-12

Tot Ion: 75 Resp: 123919

Ion Ratio Lower Upper

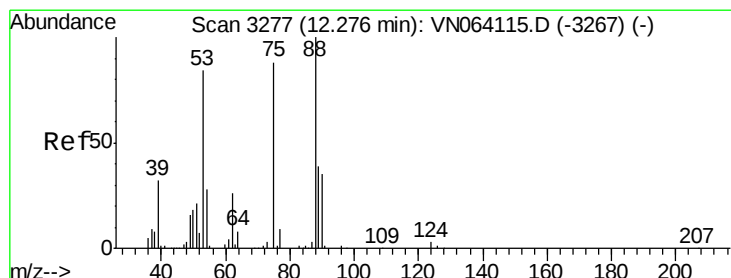
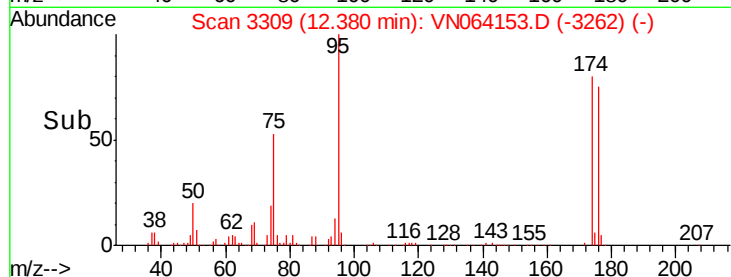
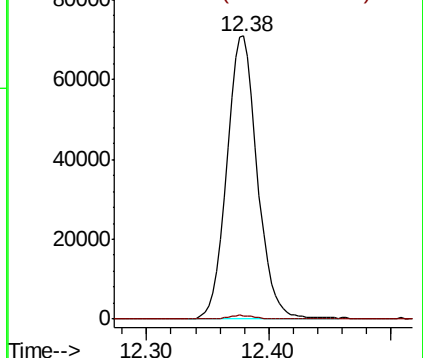
75 100

77 1.1 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: 81.196 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN064153.D

Acq: 15 Oct 2020 19:07

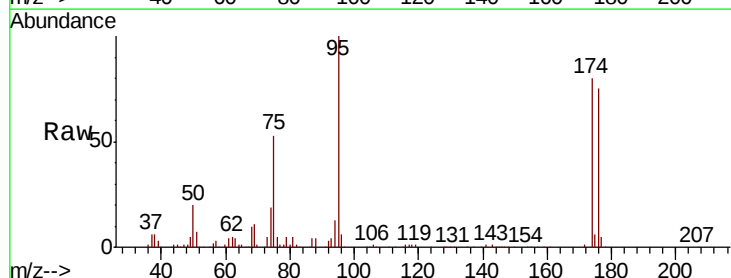
Tgt Ion: 75 Resp: 123919

Ion Ratio Lower Upper

75 100

53 0.4 75.7 113.5#

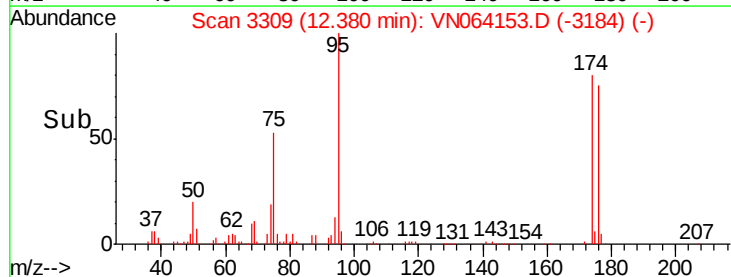
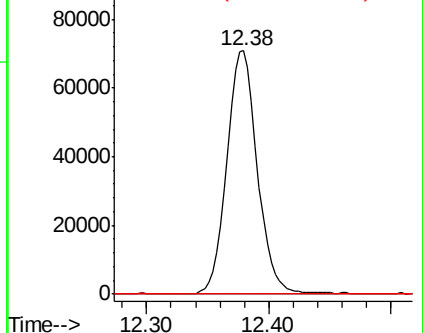
89 0.0 36.6 55.0#

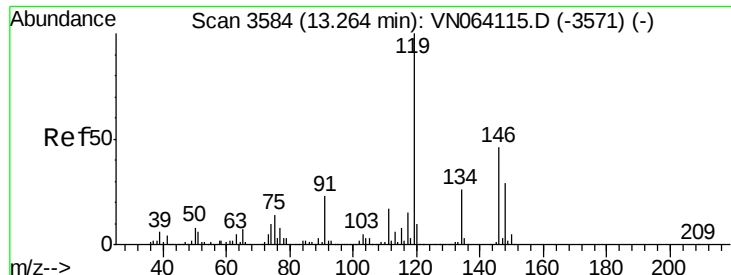


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#86
 p-Isopropyltoluene
 Concen: 0.665 ug/l
 RT: 13.25 min Scan# 3581
 Delta R.T. -0.01 min
 Lab File: VN064153.D
 Acq: 15 Oct 2020 19:07

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-12

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.2	39.5#
91	0.0	12.0	36.1#

