

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051019\
 Data File : VN055550.D
 Acq On : 10 May 2019 14:27
 Operator : JC/SP
 Sample : K2758-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-20

Quant Time: May 11 00:57:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	848208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1433385	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1181783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	333501	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	576929	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	
35) Dibromofluoromethane	7.59	113	451702	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	10.09	98	1736177	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
62) 4-Bromofluorobenzene	12.40	95	497612	40.96	ug/l	0.00
Spiked Amount			Recovery	=	81.92%	

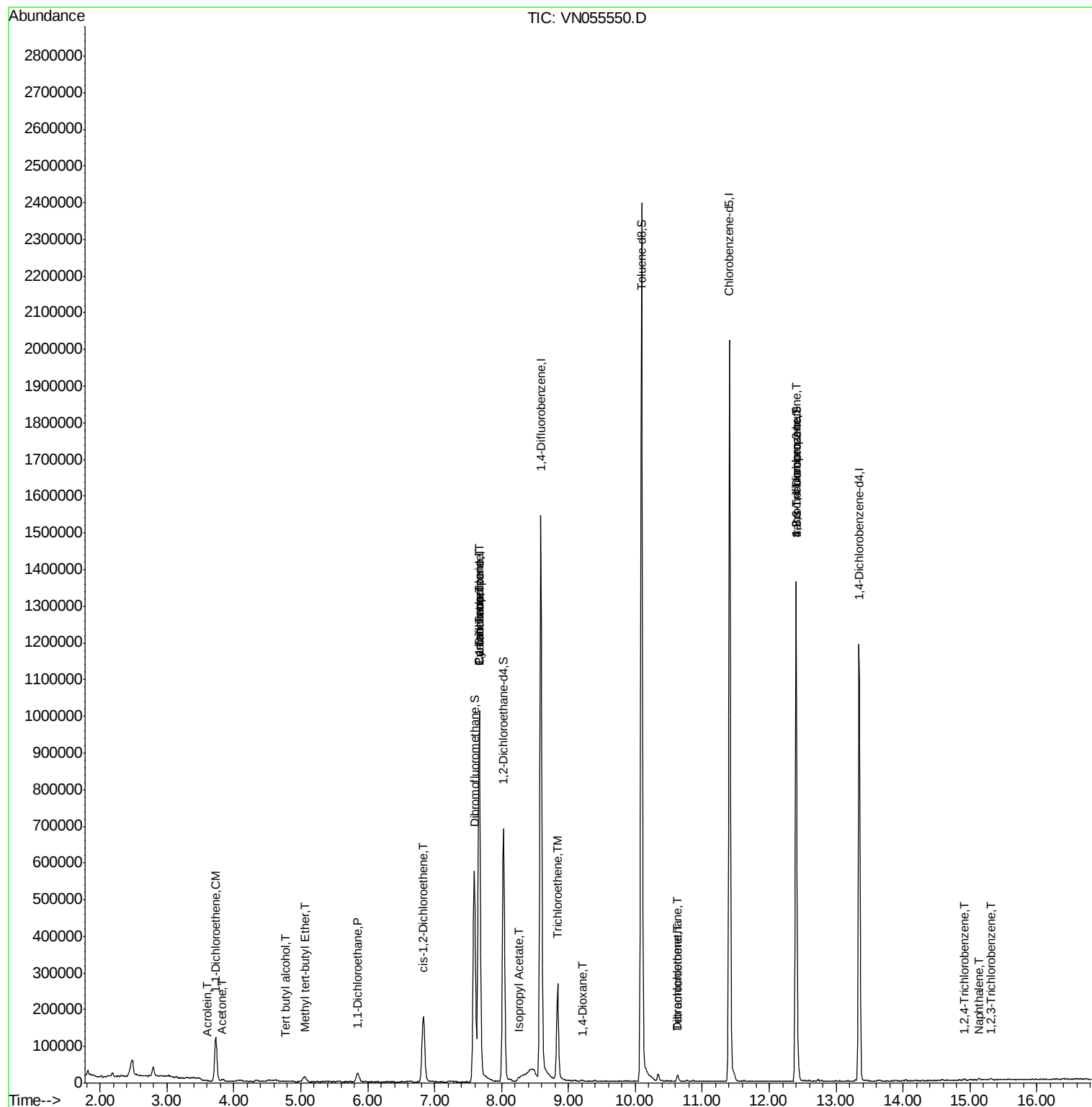
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	511	0.271	ug/l #	73
12) 1,1-Dichloroethene	3.73	96	61819	6.668	ug/l	99
13) Acrolein	3.61	56	331	0.263	ug/l #	80
16) Acetone	3.82	43	4254	0.719	ug/l	95
18) Methyl Acetate	4.33	43	3781	Below Cal	#	84
19) Methyl tert-butyl Ether	5.06	73	19186	0.623	ug/l #	84
24) 1,1-Dichloroethane	5.85	63	36727	1.763	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	118549	10.206	ug/l	91
31) Cyclohexane	7.66	56	19678	0.955	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	70143	4.967	ug/l #	50
38) Carbon Tetrachloride	7.67	117	80348	6.757	ug/l #	16
43) Isopropyl Acetate	8.26	43	9570	0.409	ug/l #	63
44) Trichloroethene	8.84	130	96227	9.228	ug/l	96
49) 1,4-Dioxane	9.21	88	1182	5.379	ug/l #	79
60) Dibromochloromethane	10.63	129	3955	0.428	ug/l #	11
64) Tetrachloroethene	10.63	164	4153	0.429	ug/l	85
73) Isopropylbenzene	12.25	105	935	Below Cal		78
75) 1,1,2,2-Tetrachloroethane	12.50	83	113	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	248324	27.351	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	248324	100.923	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.90	180	1291	3.450	ug/l	94
94) Hexachlorobutadiene	15.01	225	393	Below Cal	#	39
95) Naphthalene	15.14	128	3854	3.198	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.32	180	1607	2.709	ug/l #	78

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

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QLast Update : Fri May 10 06:48:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

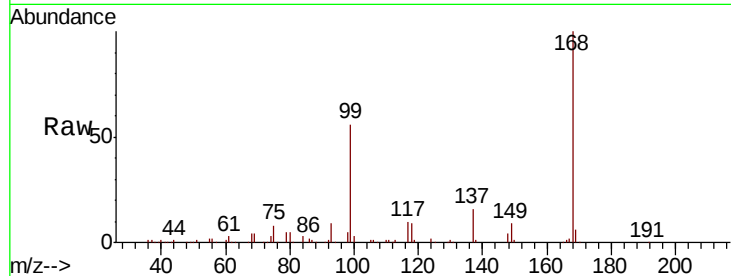
IW-20

Tot Ion:168 Resp: 848208

Ion Ratio Lower Upper

168 100

99 56.4 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

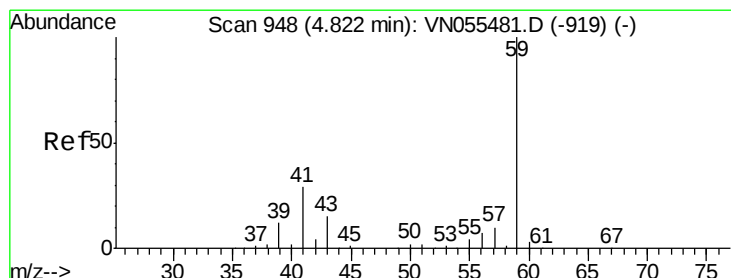
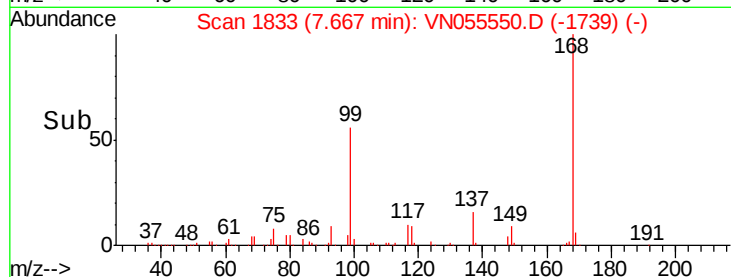
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.271 ug/l

RT: 4.78 min Scan# 936

Delta R.T. -0.04 min

Lab File: VN055550.D

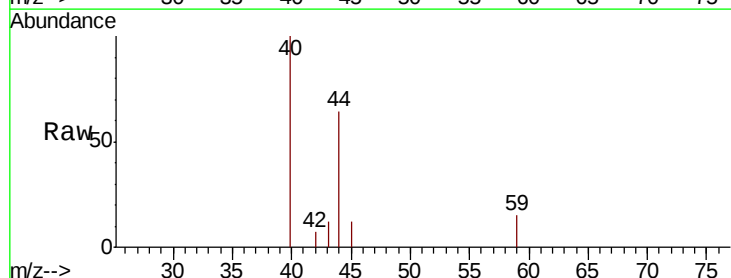
Acq: 10 May 2019 14:27

Tgt Ion: 59 Resp: 511

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.78

400

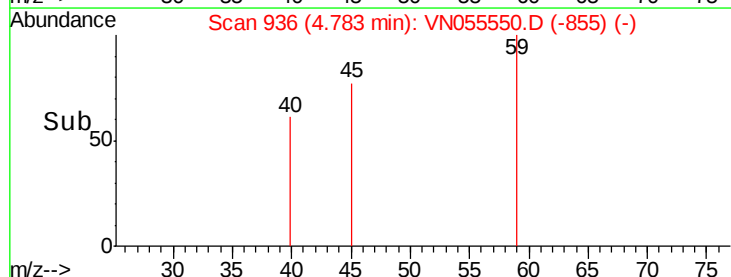
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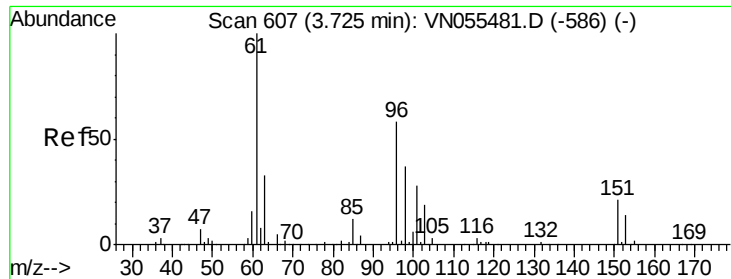
200

100

0

Time-->





#12

1,1-Dichloroethene

Concen: 6.668 ug/l

RT: 3.73 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

IW-20

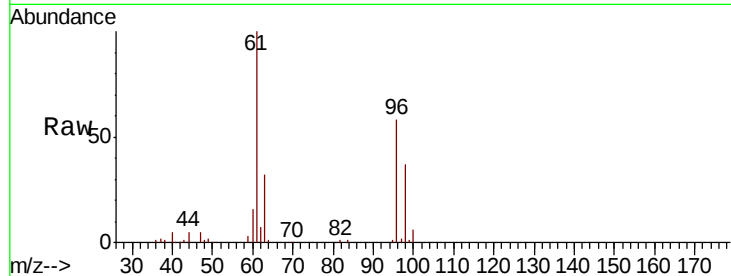
Tot Ion: 96 Resp: 61819

Ion Ratio Lower Upper

96 100

61 171.4 138.7 208.1

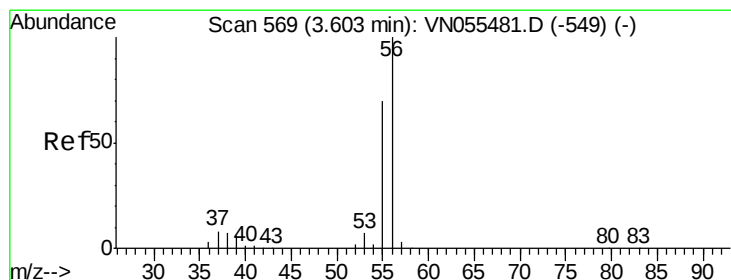
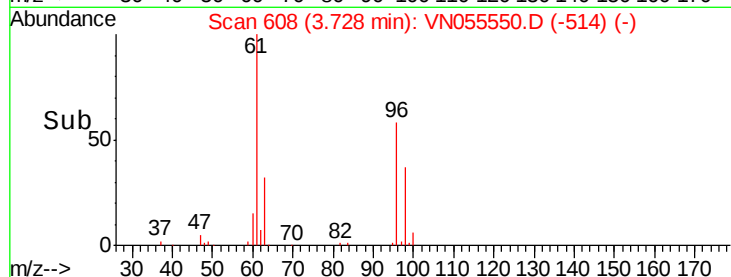
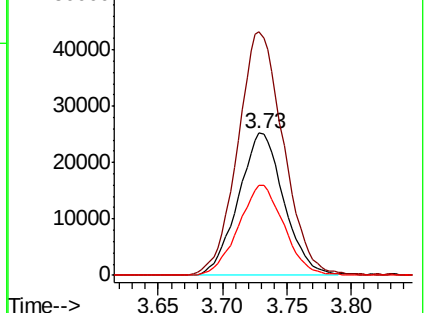
98 63.1 50.6 76.0



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



#13

Acrolein

Concen: 0.263 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN055550.D

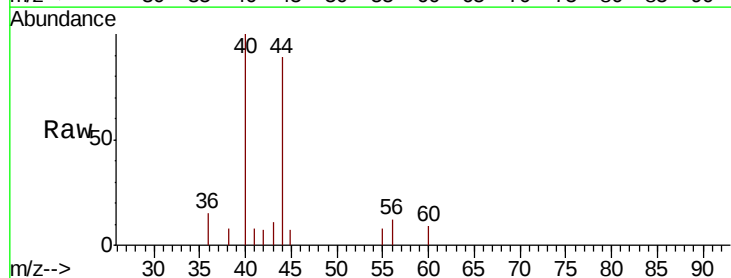
Acq: 10 May 2019 14:27

Tgt Ion: 56 Resp: 331

Ion Ratio Lower Upper

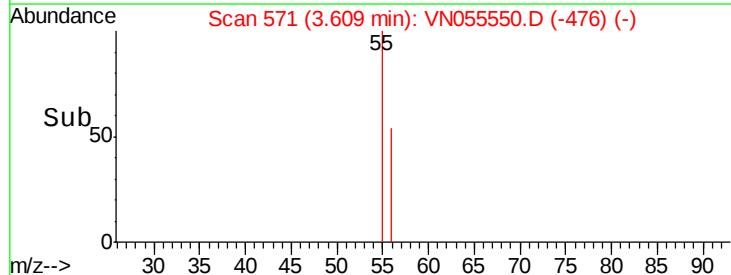
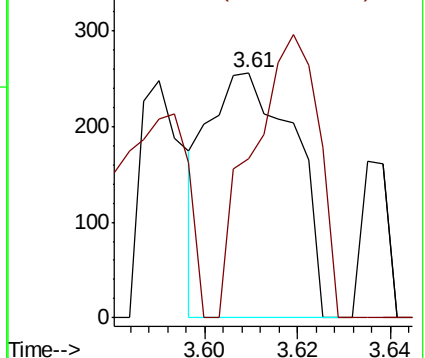
56 100

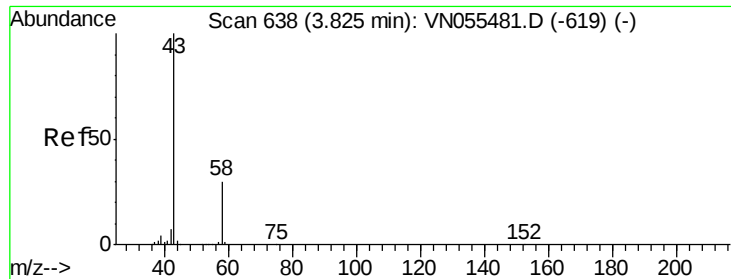
55 88.5 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.719 ug/l

RT: 3.82 min Scan# 638

Delta R.T. -0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

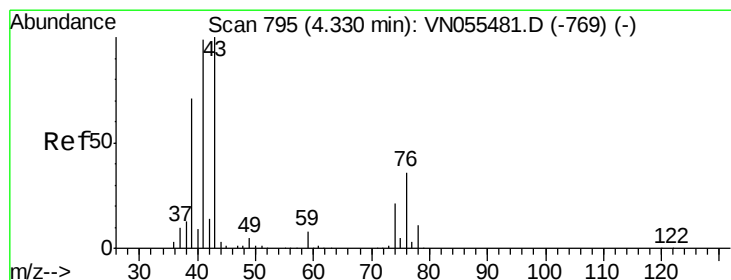
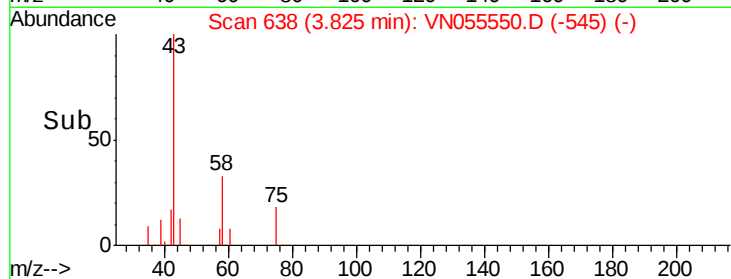
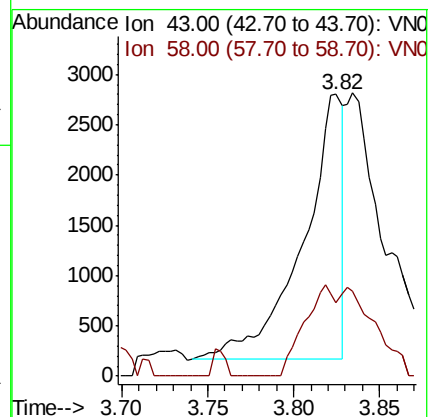
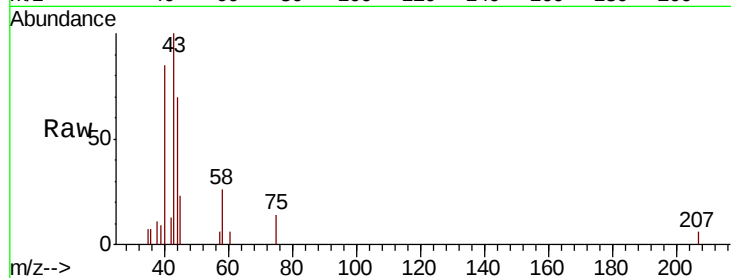
IW-20

Tot Ion: 43 Resp: 4254

Ion Ratio Lower Upper

43 100

58 27.7 24.2 36.2



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN055550.D

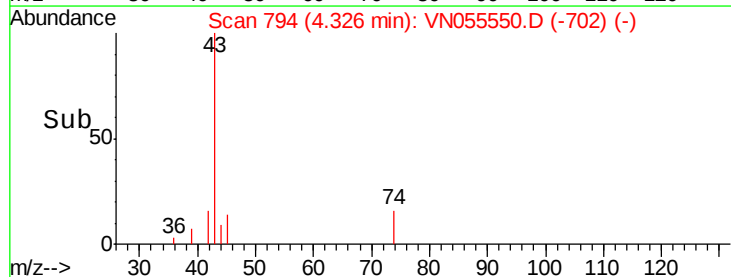
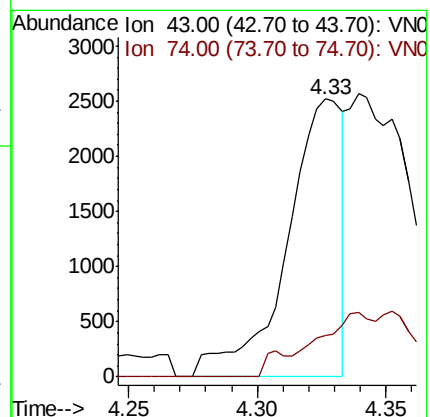
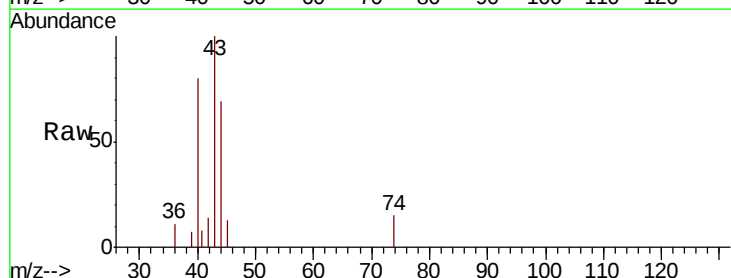
Acq: 10 May 2019 14:27

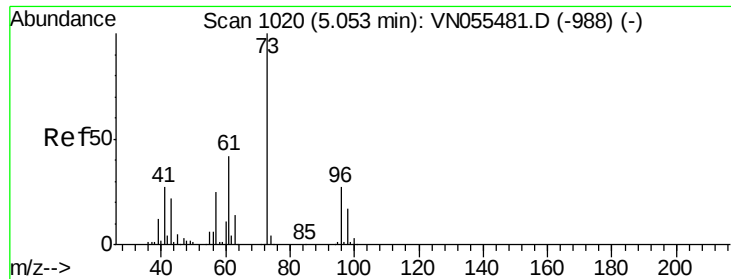
Tgt Ion: 43 Resp: 3781

Ion Ratio Lower Upper

43 100

74 12.9 16.3 24.5#



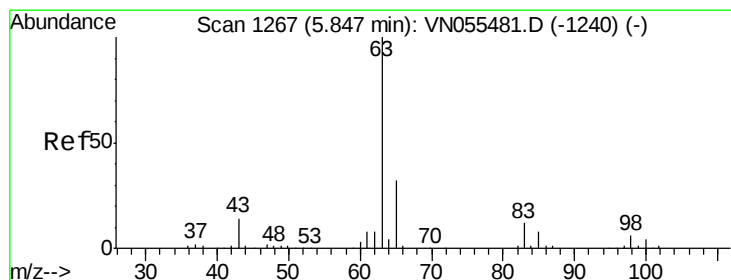
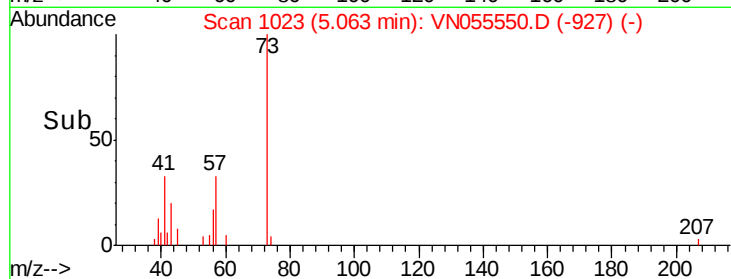
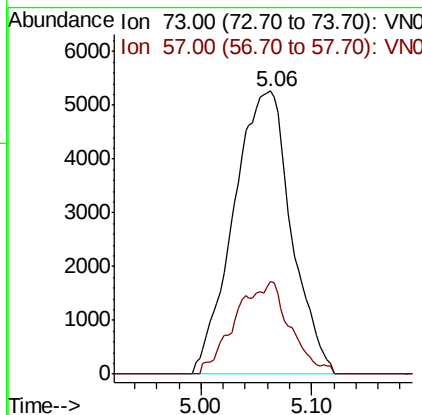
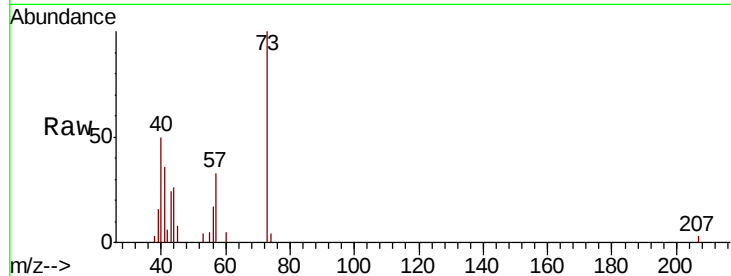


#19

Methvl tert-butvl Ether
 Concen: 0.623 ug/l
 RT: 5.06 min Scan# 1023
 Delta R.T. 0.01 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-20

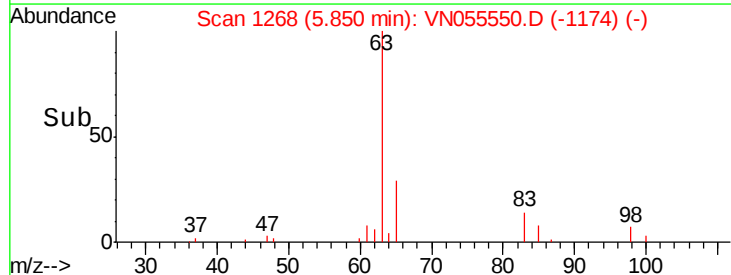
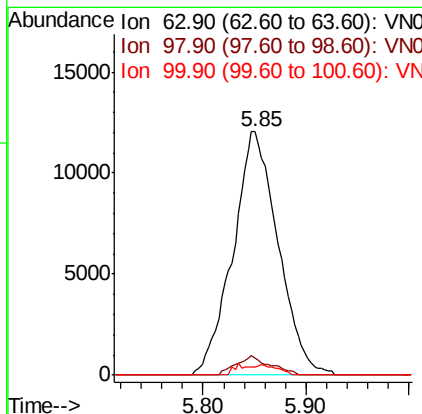
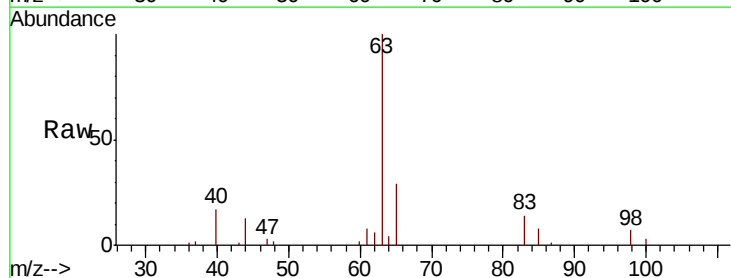
Tot Ion: 73 Resp: 19186
 Ion Ratio Lower Upper
 73 100
 57 32.9 20.0 30.0#

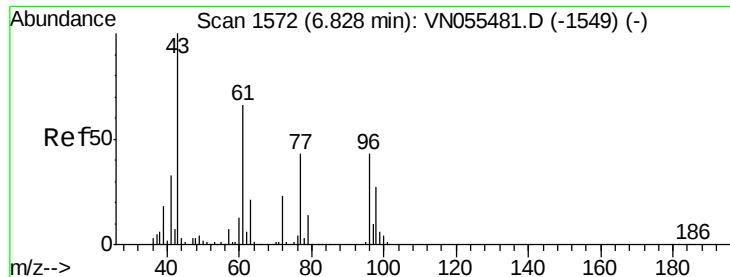


#24

1,1-Dichloroethane
 Concen: 1.763 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Tgt Ion: 63 Resp: 36727
 Ion Ratio Lower Upper
 63 100
 98 7.1 3.0 9.0
 100 3.5 1.9 5.7





#27

cis-1,2-Dichloroethene

Concen: 10.206 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

IW-20

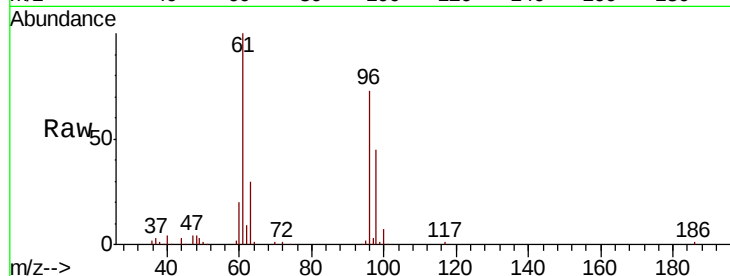
Tot Ion: 96 Resp: 118549

Ion Ratio Lower Upper

96 100

61 140.3 0.0 310.8

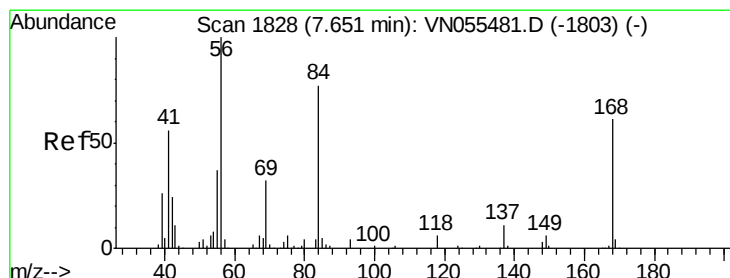
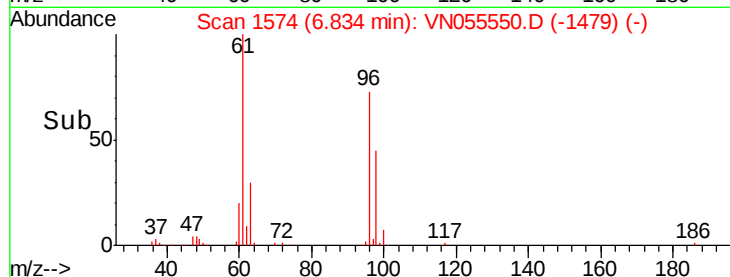
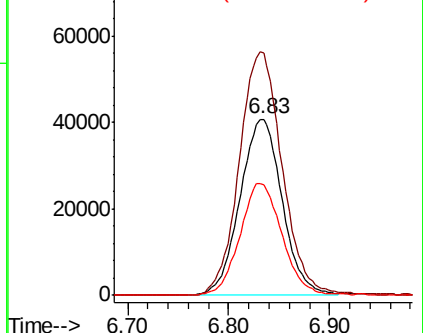
98 63.2 0.0 129.4



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: 0.955 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

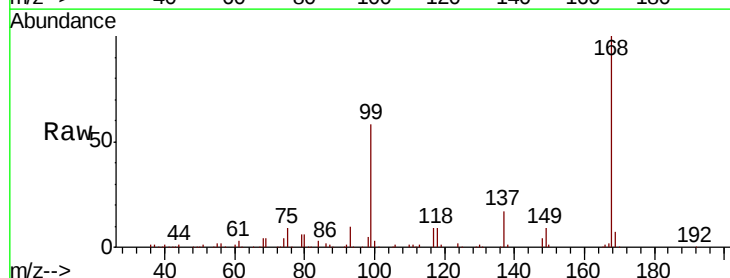
Tgt Ion: 56 Resp: 19678

Ion Ratio Lower Upper

56 100

69 169.4 26.0 39.0#

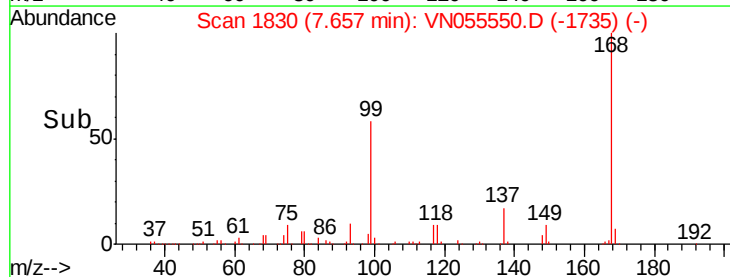
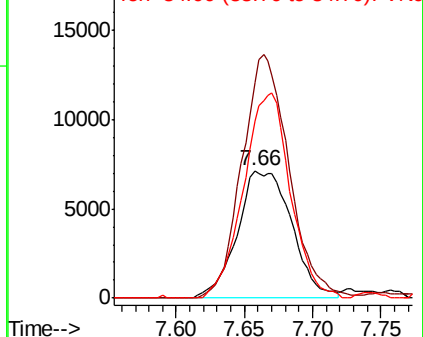
84 139.4 61.9 92.9#

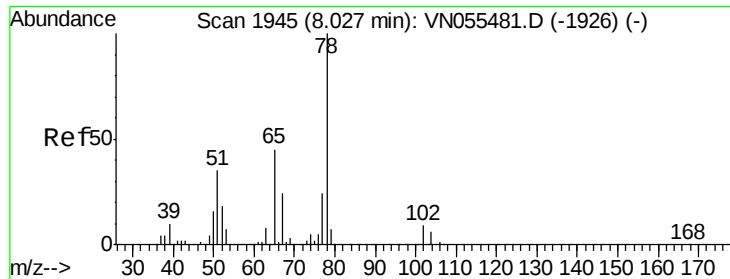


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

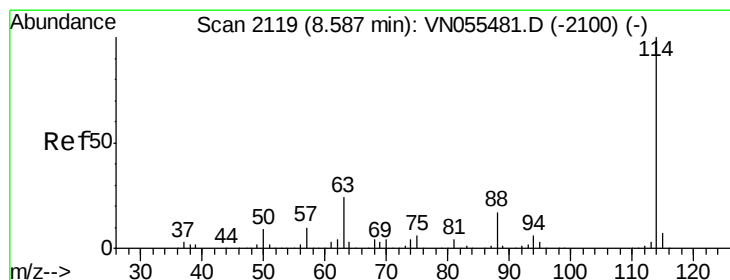
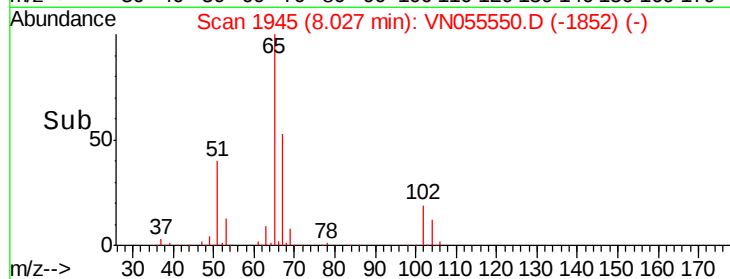
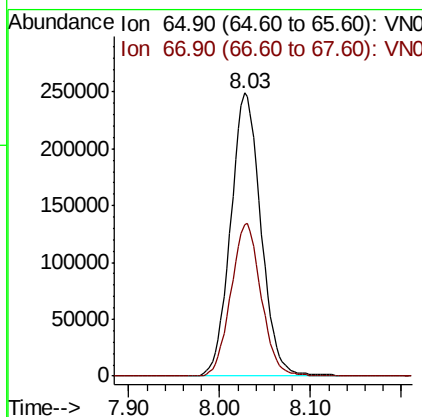
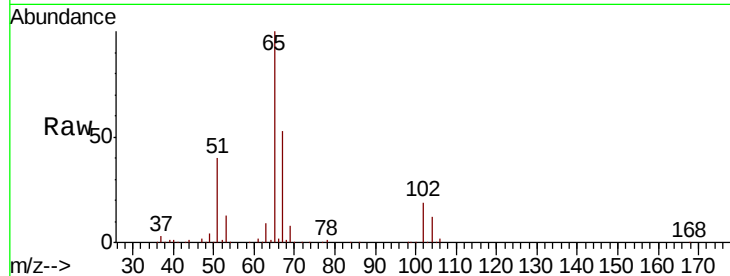




#33
 1,2-Dichloroethane-d4
 Concen: 45.174 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

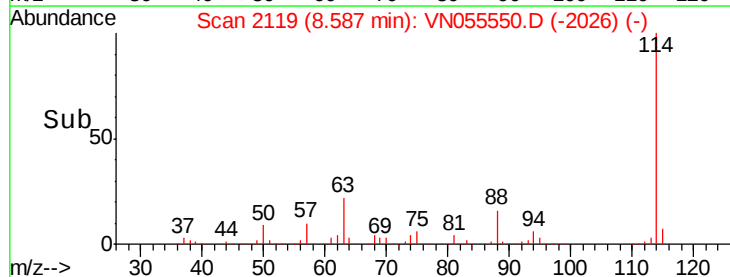
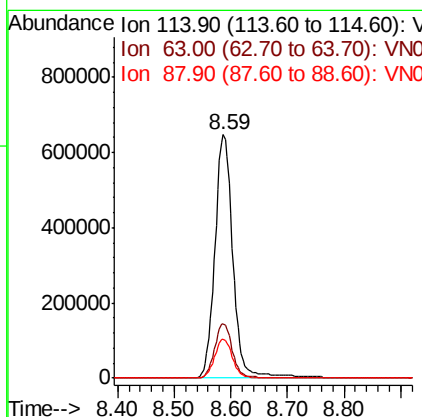
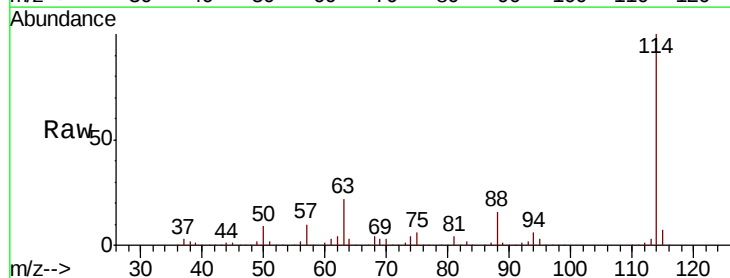
Instrument :
 MSVOA_N
 ClientSampled :
 IW-20

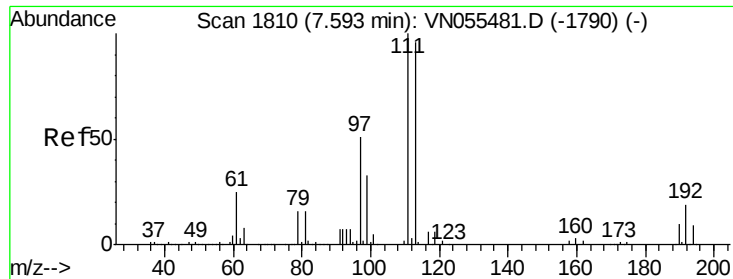
Tot Ion: 65 Resp: 576929
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Tgt Ion: 114 Resp: 1433385
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 47.4
 88 16.1 0.0 34.0

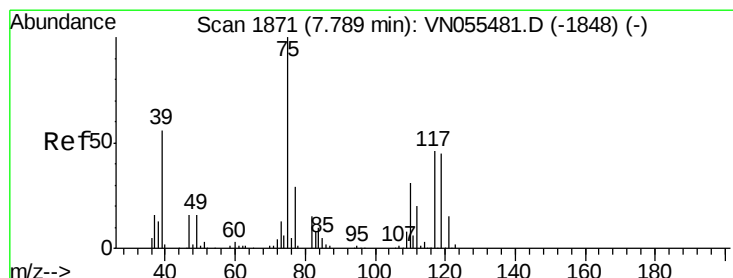
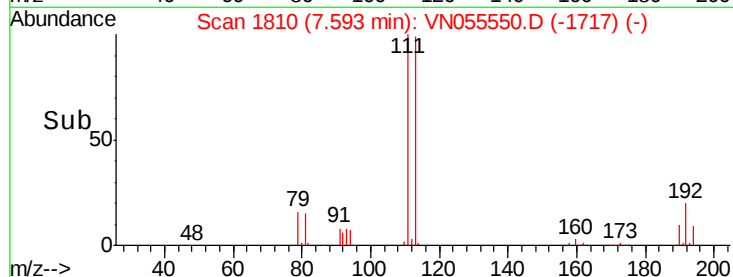
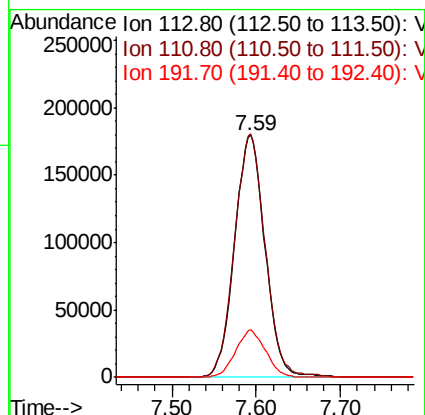
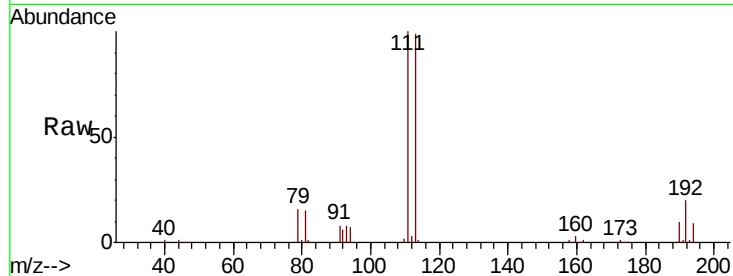




#35
 Dibromofluoromethane
 Concen: 48.851 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

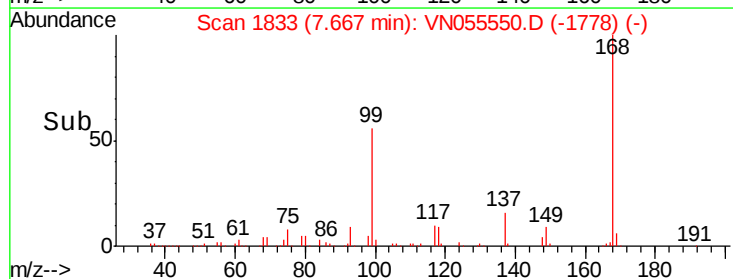
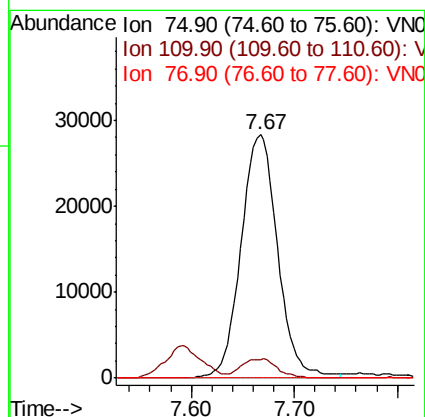
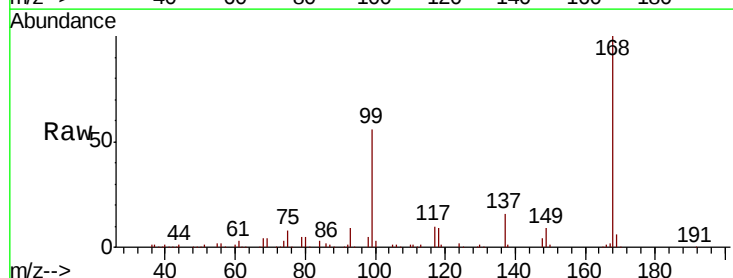
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-20

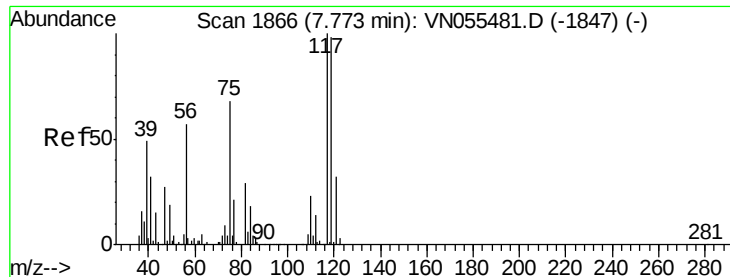
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.9	124.3
192	19.3	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.967 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.1	48.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.757 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

IW-20

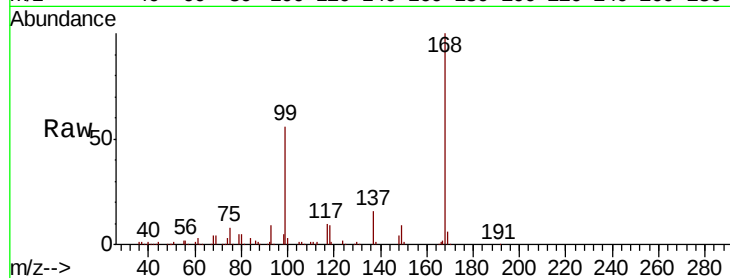
Tot Ion:117 Resp: 80348

Ion Ratio Lower Upper

117 100

119 5.9 77.8 116.6#

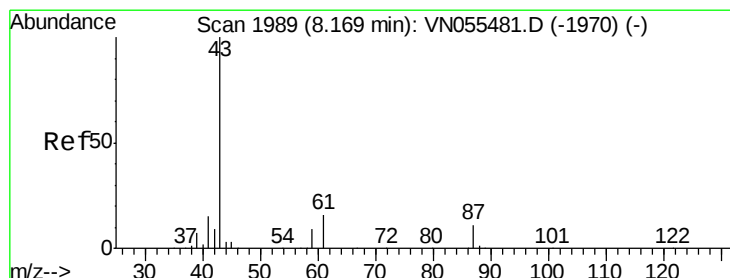
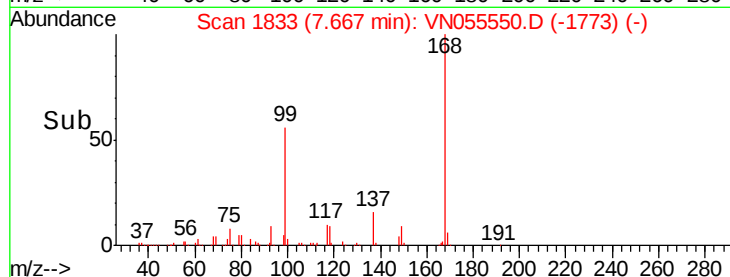
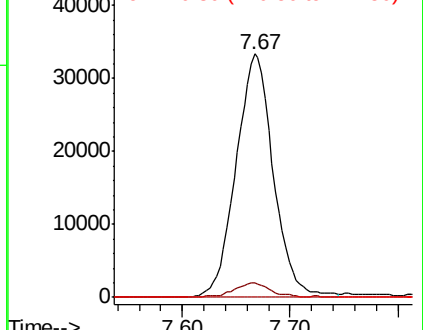
121 0.0 25.2 37.8#



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



#43

Isopropyl Acetate

Concen: 0.409 ug/l

RT: 8.26 min Scan# 2018

Delta R.T. 0.09 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

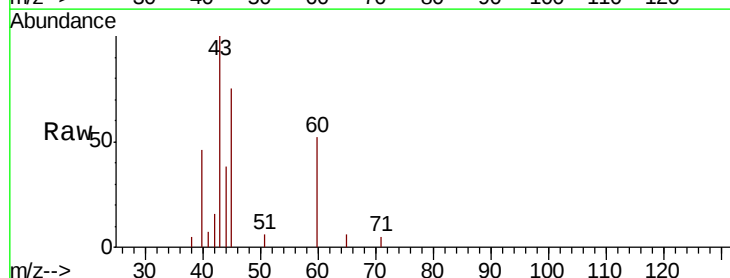
Tgt Ion: 43 Resp: 9570

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

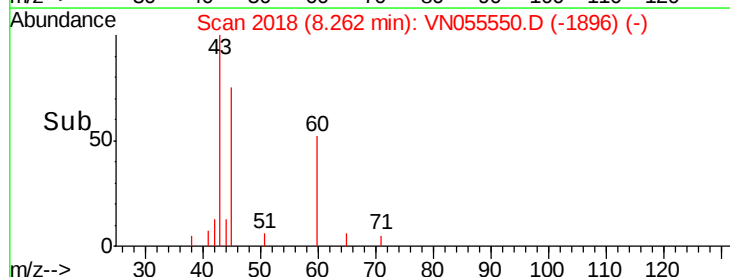
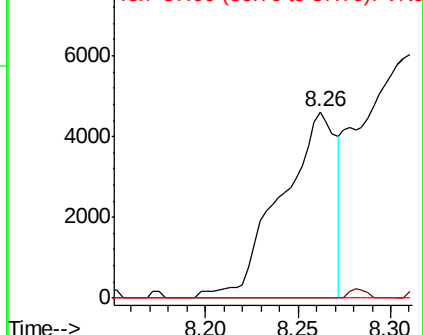
87 0.0 9.0 13.6#

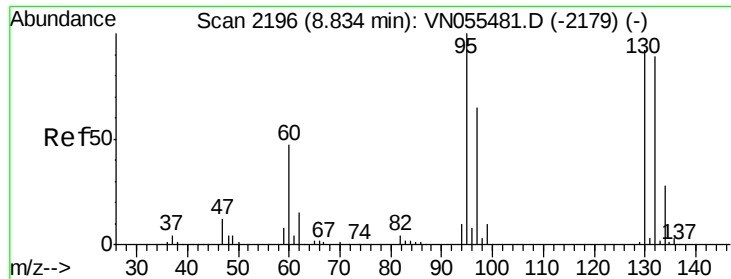


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

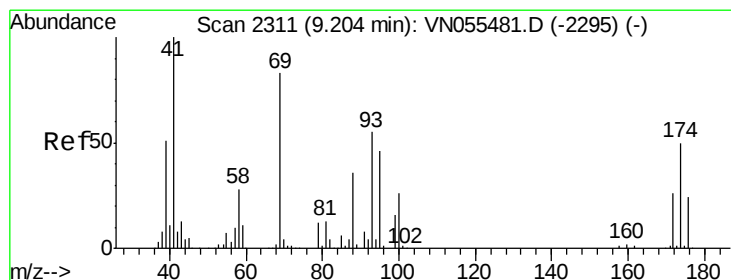
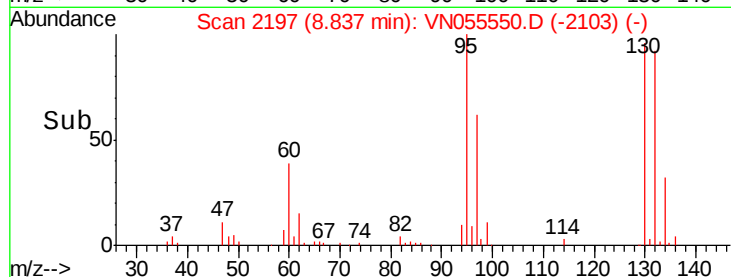
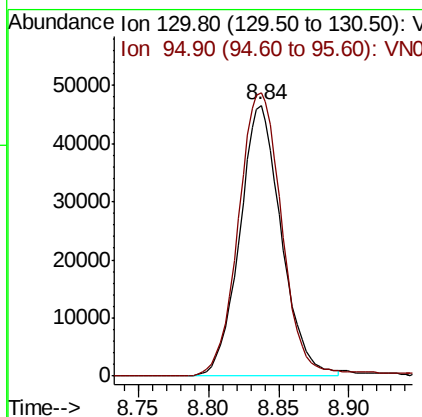
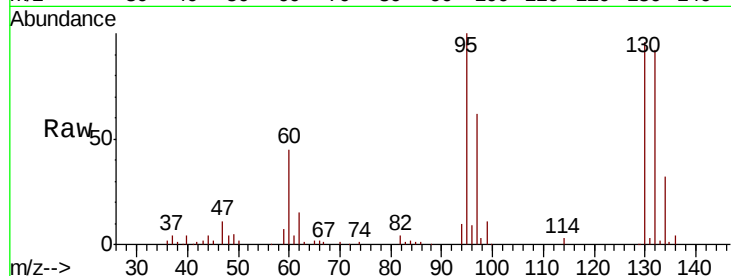




#44
 Trichloroethene
 Concen: 9.228 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

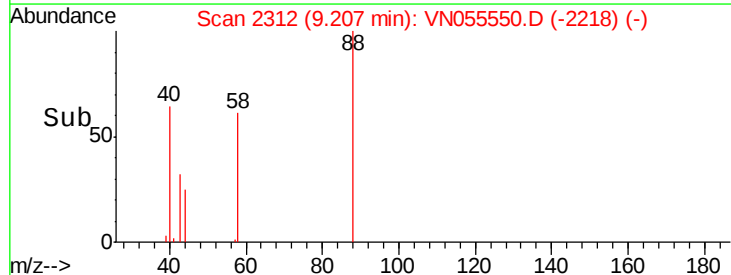
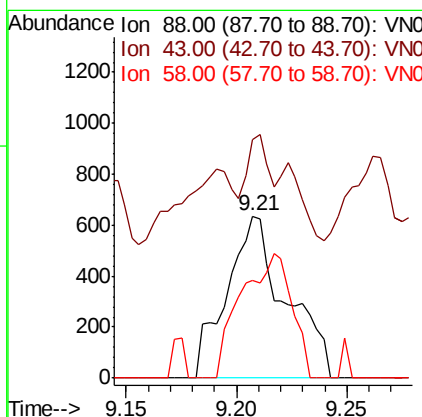
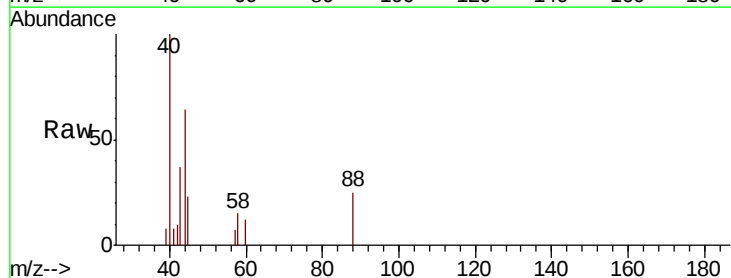
Instrument :
 MSVOA_N
 ClientSampled :
 IW-20

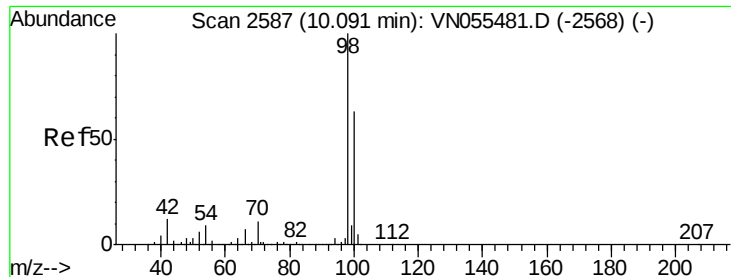
Tot Ion:130 Resp: 96227
 Ion Ratio Lower Upper
 130 100
 95 104.6 0.0 216.8



#49
 1,4-Dioxane
 Concen: 5.379 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Tgt Ion: 88 Resp: 1182
 Ion Ratio Lower Upper
 88 100
 43 12.0 27.8 41.8#
 58 65.8 61.8 92.6





#50

Toluene-d8

Concen: 48.184 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

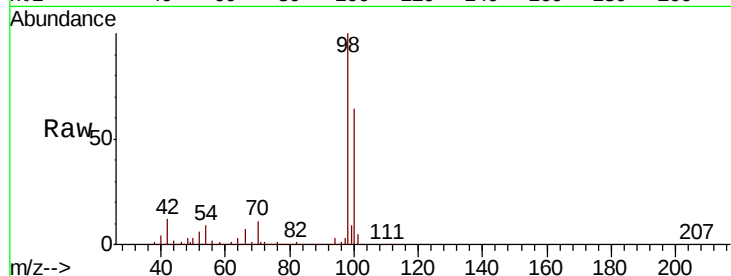
IW-20

Tot Ion: 98 Resp: 1736177

Ion Ratio Lower Upper

98 100

100 62.8 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN055481.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN055481.D (-2568) (-)

10.09

800000

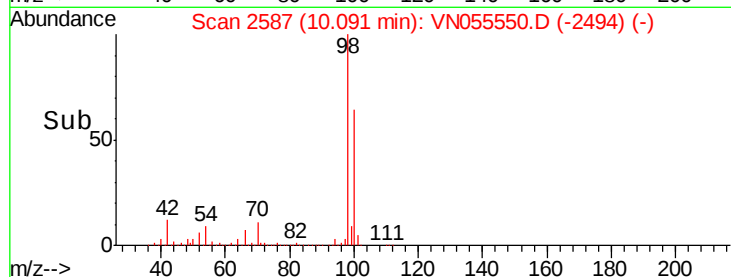
600000

400000

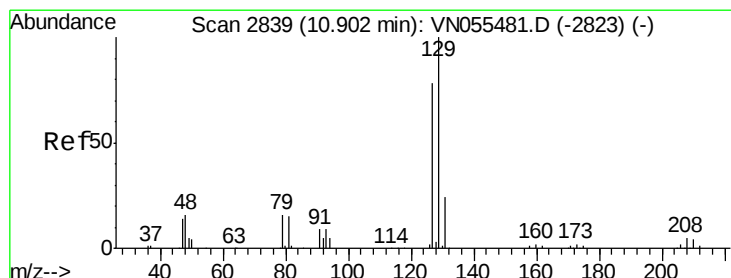
200000

0

10.00 10.20



Time-->



#60

Dibromochloromethane

Concen: 0.428 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN055550.D

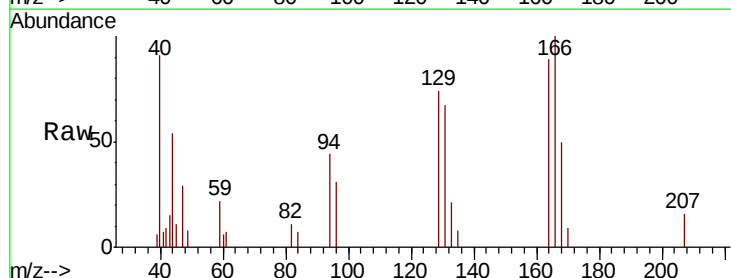
Acq: 10 May 2019 14:27

Tgt Ion: 129 Resp: 3955

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): VN055481.D (-2823) (-)

Ion 126.80 (126.50 to 127.50): VN055481.D (-2823) (-)

10.63

2000

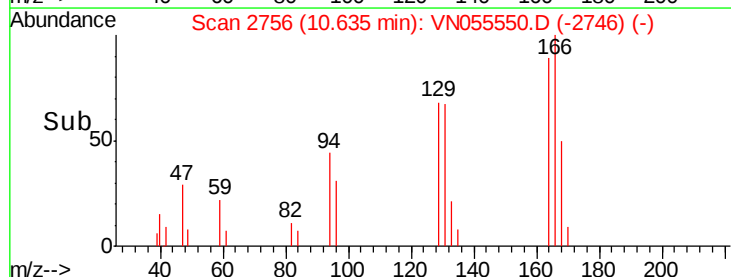
1500

1000

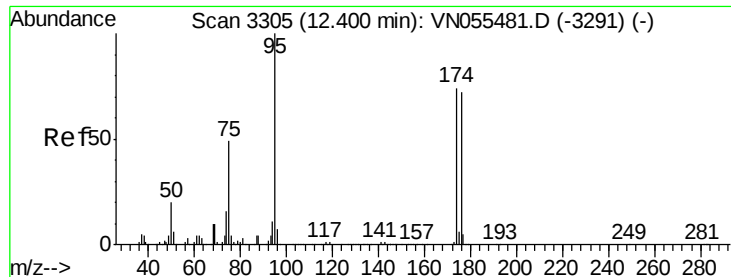
500

0

10.60 10.65



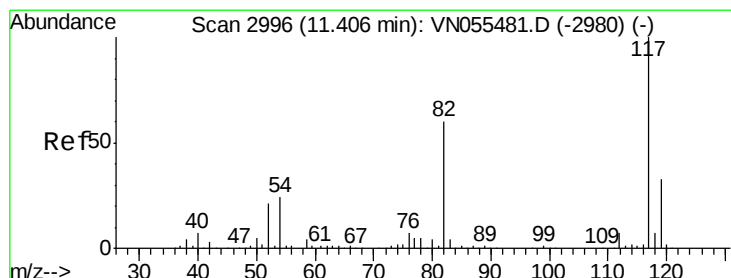
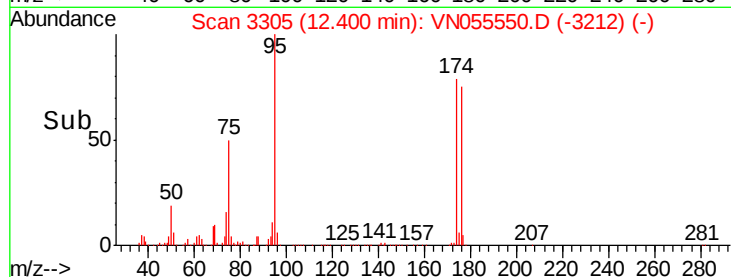
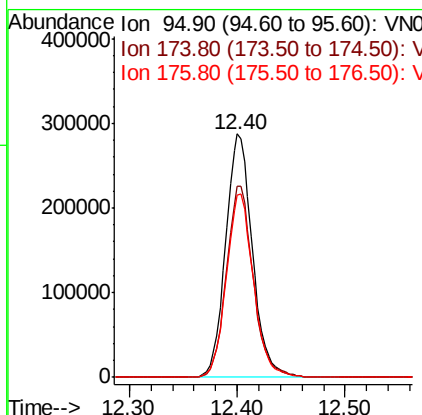
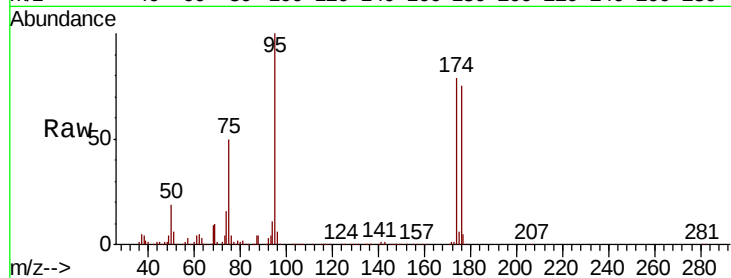
Time-->



#62
4-Bromofluorobenzene
Concen: 40.957 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055550.D
Acq: 10 May 2019 14:27

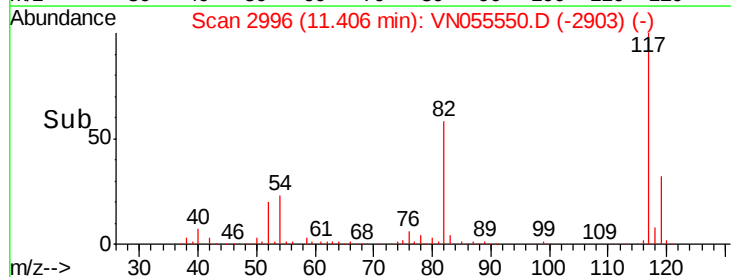
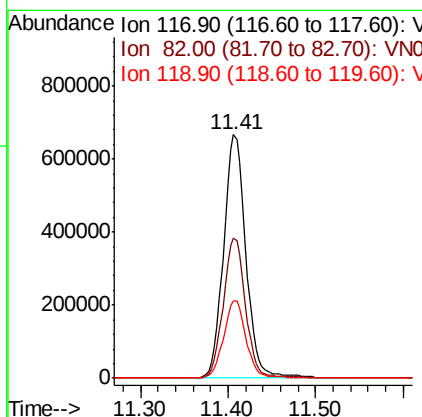
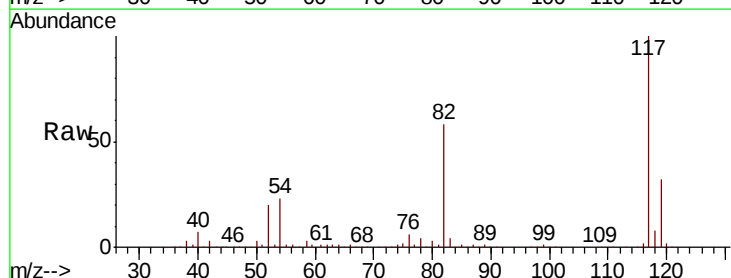
Instrument :
MSVOA_N
ClientSampleId :
IW-20

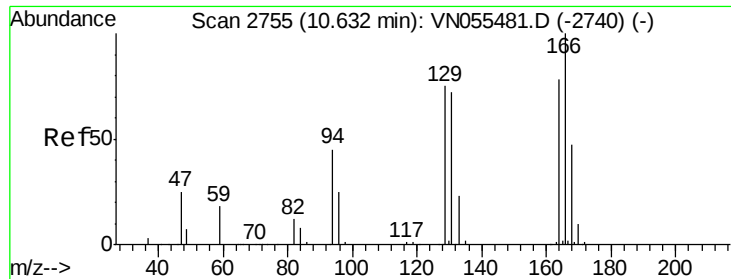
Tot Ion: 95 Resp: 497612
Ion Ratio Lower Upper
95 100
174 78.8 0.0 152.2
176 76.1 0.0 147.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055550.D
Acq: 10 May 2019 14:27

Tgt Ion: 117 Resp: 1181783
Ion Ratio Lower Upper
117 100
82 57.7 48.0 72.0
119 31.8 26.0 39.0





#64

Tetrachloroethene

Concen: 0.429 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

IW-20

Tot Ion:164 Resp: 4153

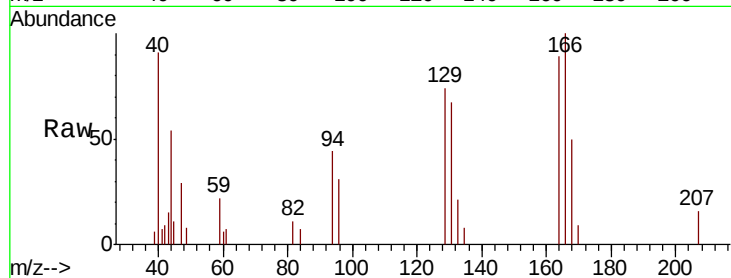
Ion Ratio Lower Upper

164 100

166 112.3 102.6 153.8

129 83.5 77.0 115.6

131 75.3 73.7 110.5

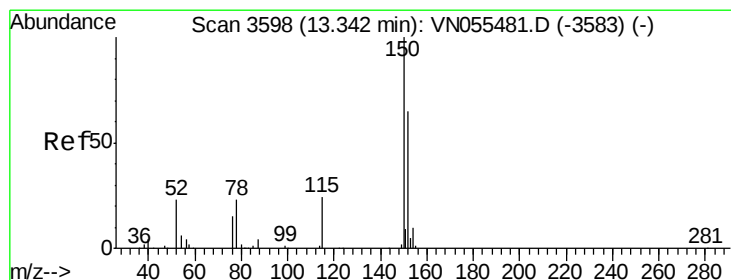
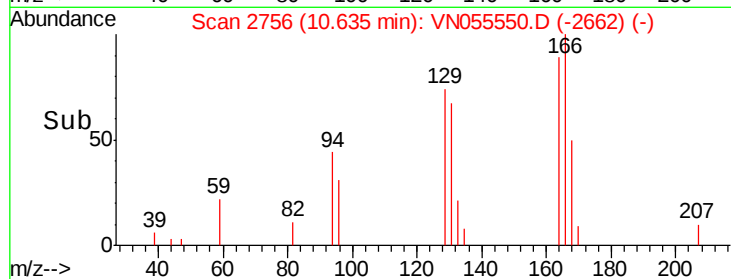
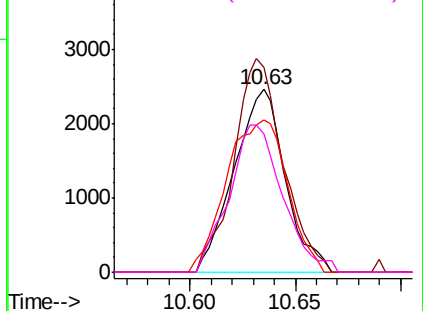


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

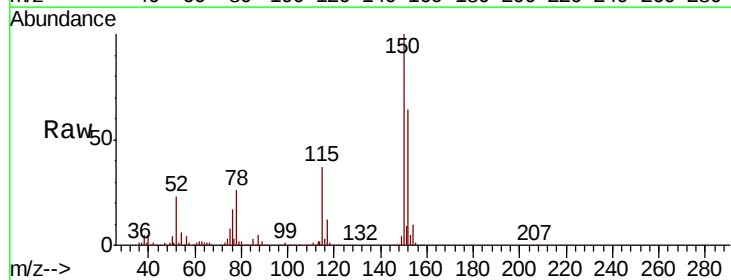
Tgt Ion:152 Resp: 333501

Ion Ratio Lower Upper

152 100

115 59.3 30.1 90.5

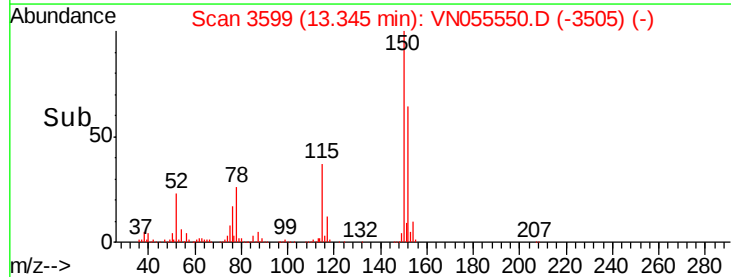
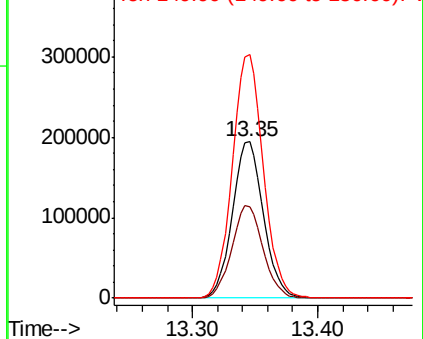
150 155.7 0.0 355.0

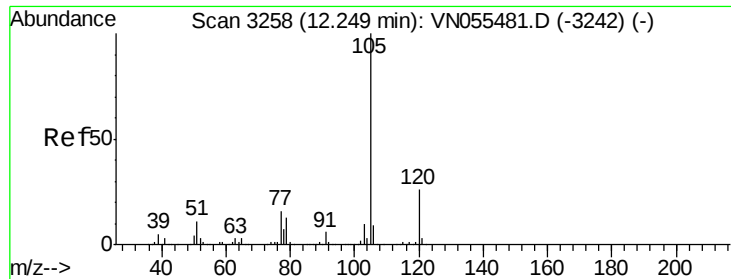


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

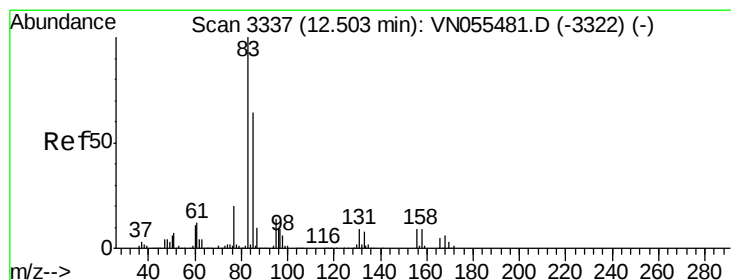
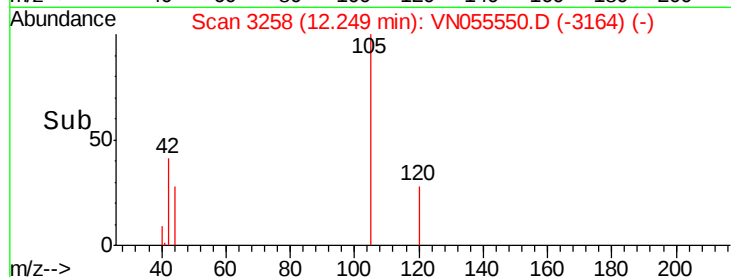
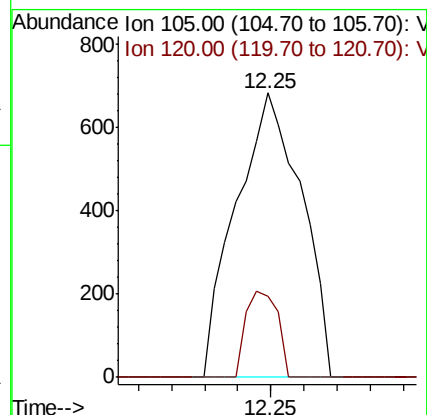
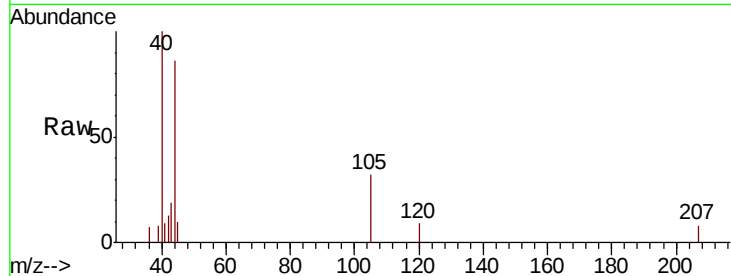
IW-20

Tot Ion:105 Resp: 935

Ion Ratio Lower Upper

105 100

120 14.7 13.0 39.0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

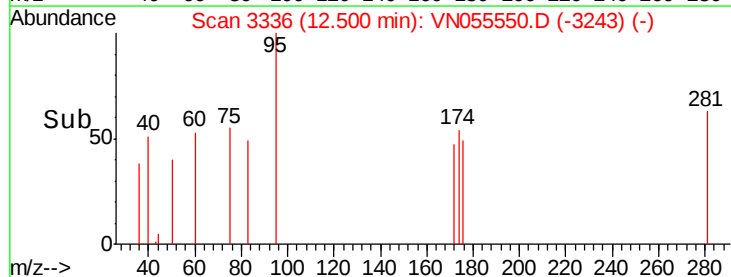
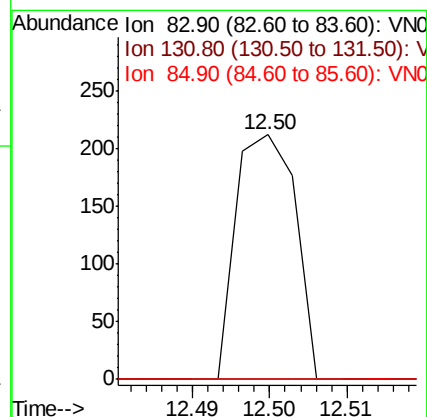
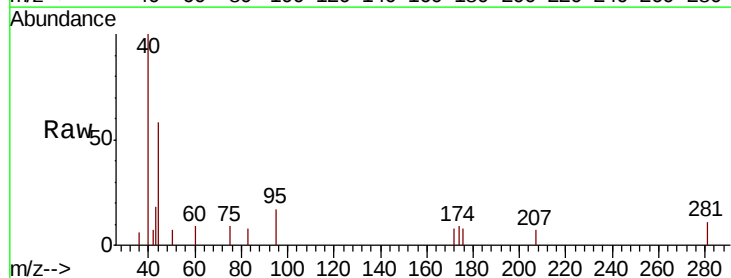
Tgt Ion: 83 Resp: 113

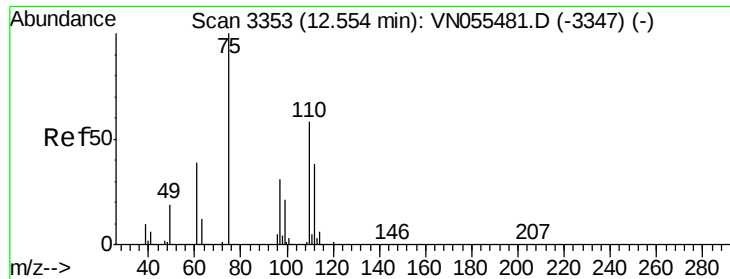
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#

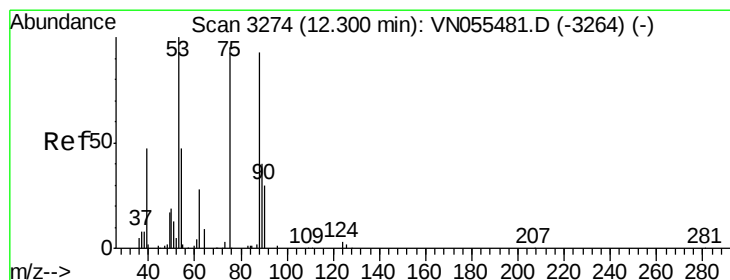
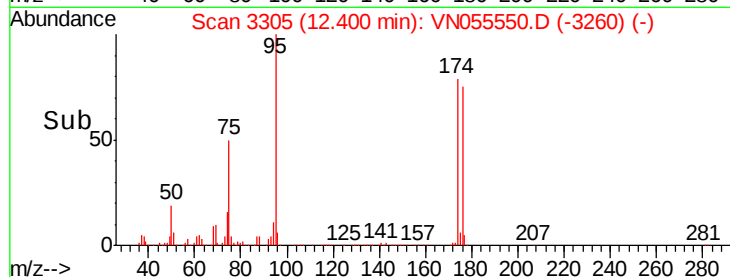
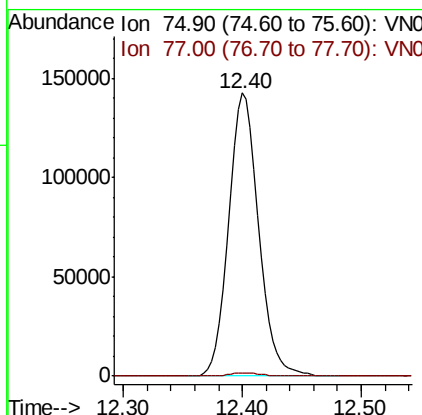
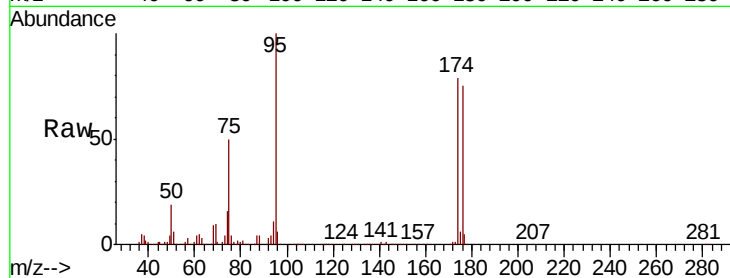




#76
 1,2,3-Trichloropropane
 Concen: 27.351 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

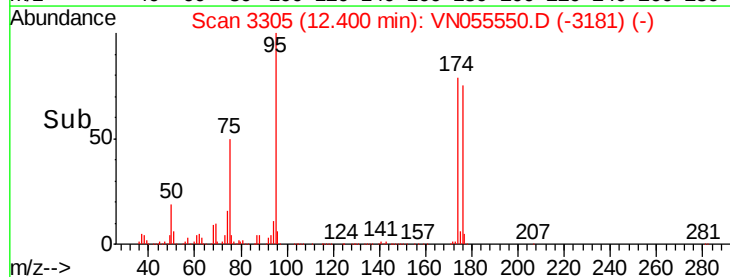
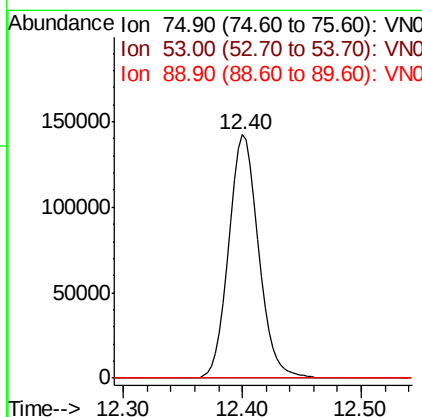
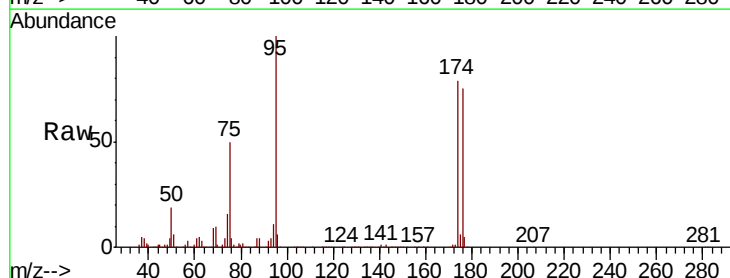
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-20

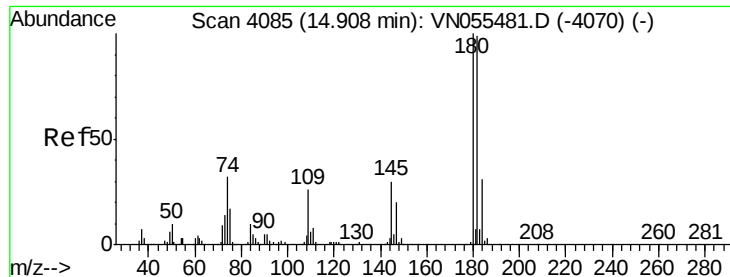
Tot Ion: 75 Resp: 248324
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.923 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Tgt Ion: 75 Resp: 248324
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.5 129.7#
 89 0.1 35.7 53.5#

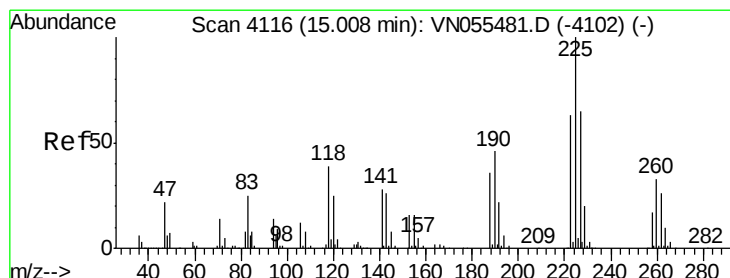
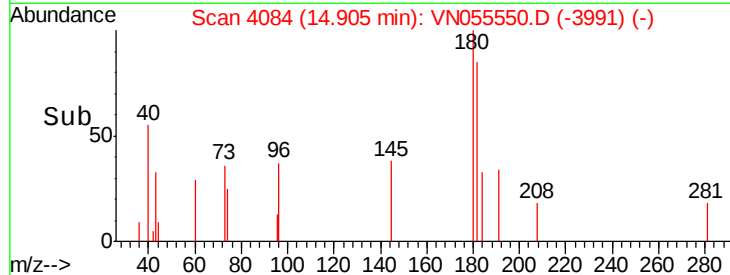
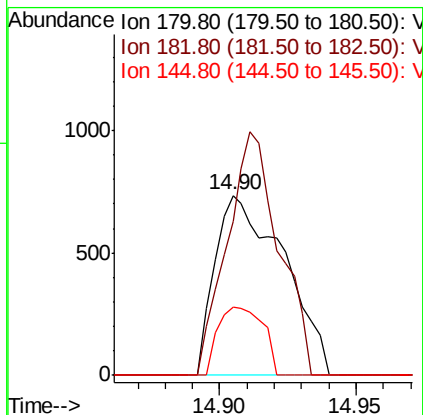
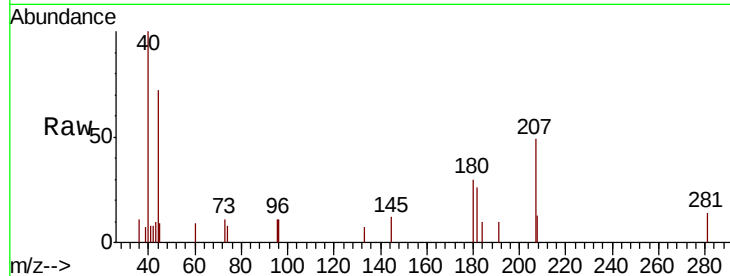




#93
 1,2,4-Trichlorobenzene
 Concen: 3.450 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

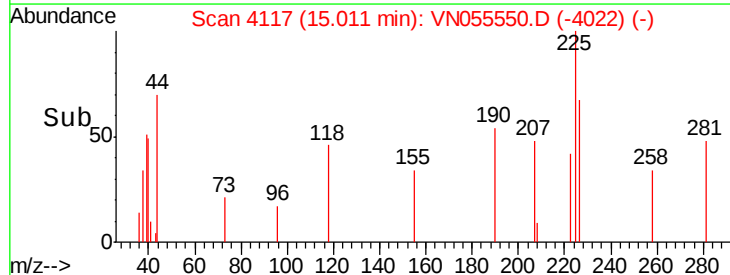
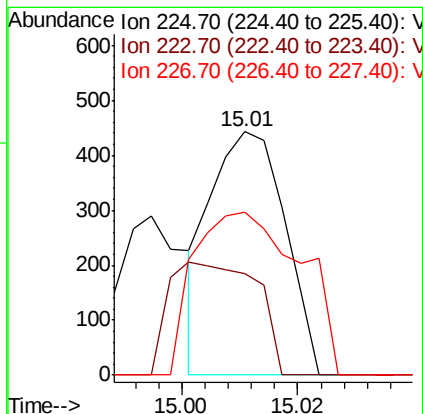
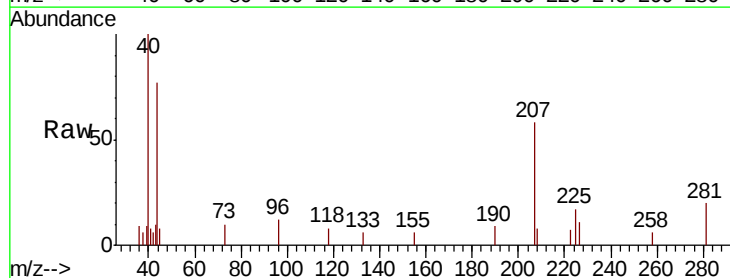
Instrument :
 MSVOA_N
 ClientSampled :
 IW-20

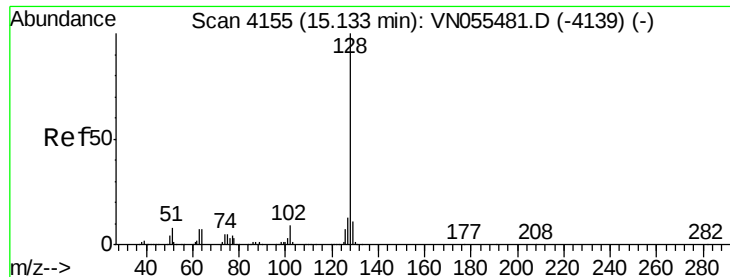
Tot Ion:180 Resp: 1291
 Ion Ratio Lower Upper
 180 100
 182 101.6 48.7 146.1
 145 24.8 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055550.D
 Acq: 10 May 2019 14:27

Tgt Ion:225 Resp: 393
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.3#
 227 96.2 32.0 96.0#





#95

Naphthalene

Concen: 3.198 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

IW-20

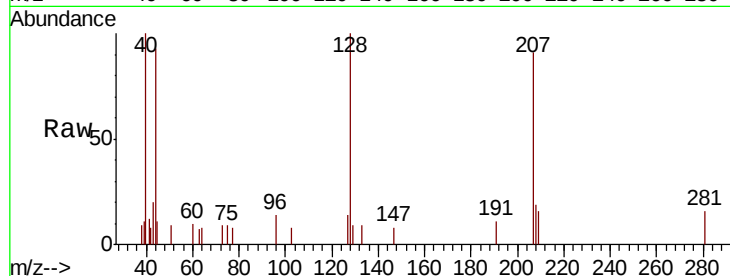
Tot Ion:128 Resp: 3854

Ion Ratio Lower Upper

128 100

127 4.0 10.0 15.0#

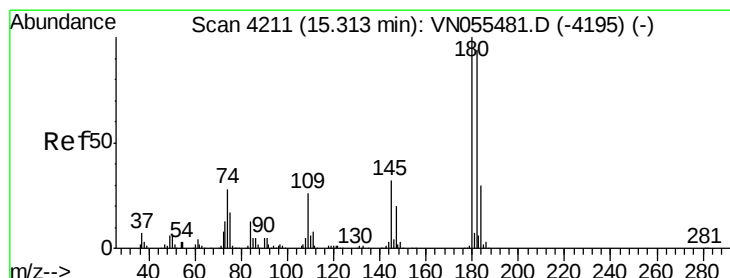
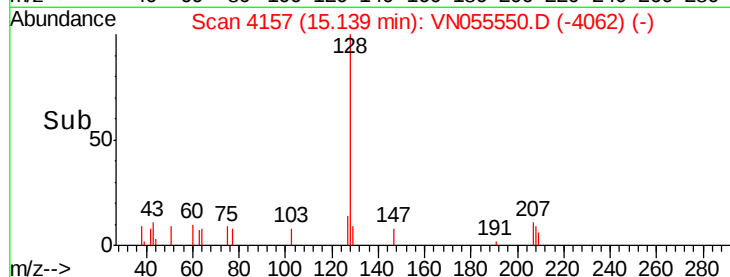
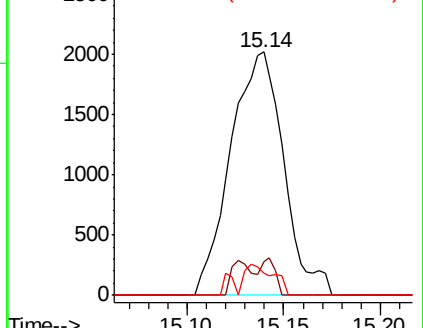
129 6.9 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.709 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055550.D

Acq: 10 May 2019 14:27

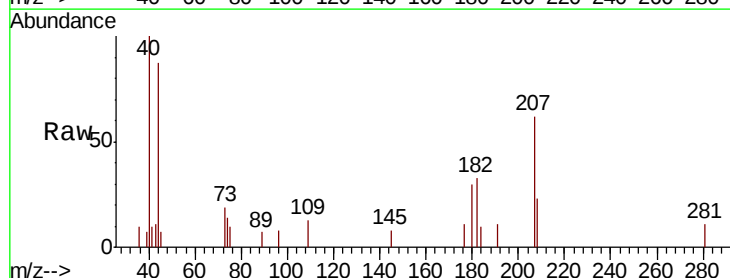
Tgt Ion:180 Resp: 1607

Ion Ratio Lower Upper

180 100

182 78.4 47.1 141.3

145 10.4 15.8 47.4#



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

