

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031219\
 Data File : VN054178.D
 Acq On : 12 Mar 2019 22:38
 Operator : JC/SP
 Sample : VN0312WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0312WBL02

Quant Time: Mar 13 07:30:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1438108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2312209	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2365252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1003843	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	749884	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
35) Dibromofluoromethane	7.59	113	711264	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	10.09	98	2863789	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.40	95	1075343	55.80	ug/l	0.00
Spiked Amount			Recovery	=	111.60%	

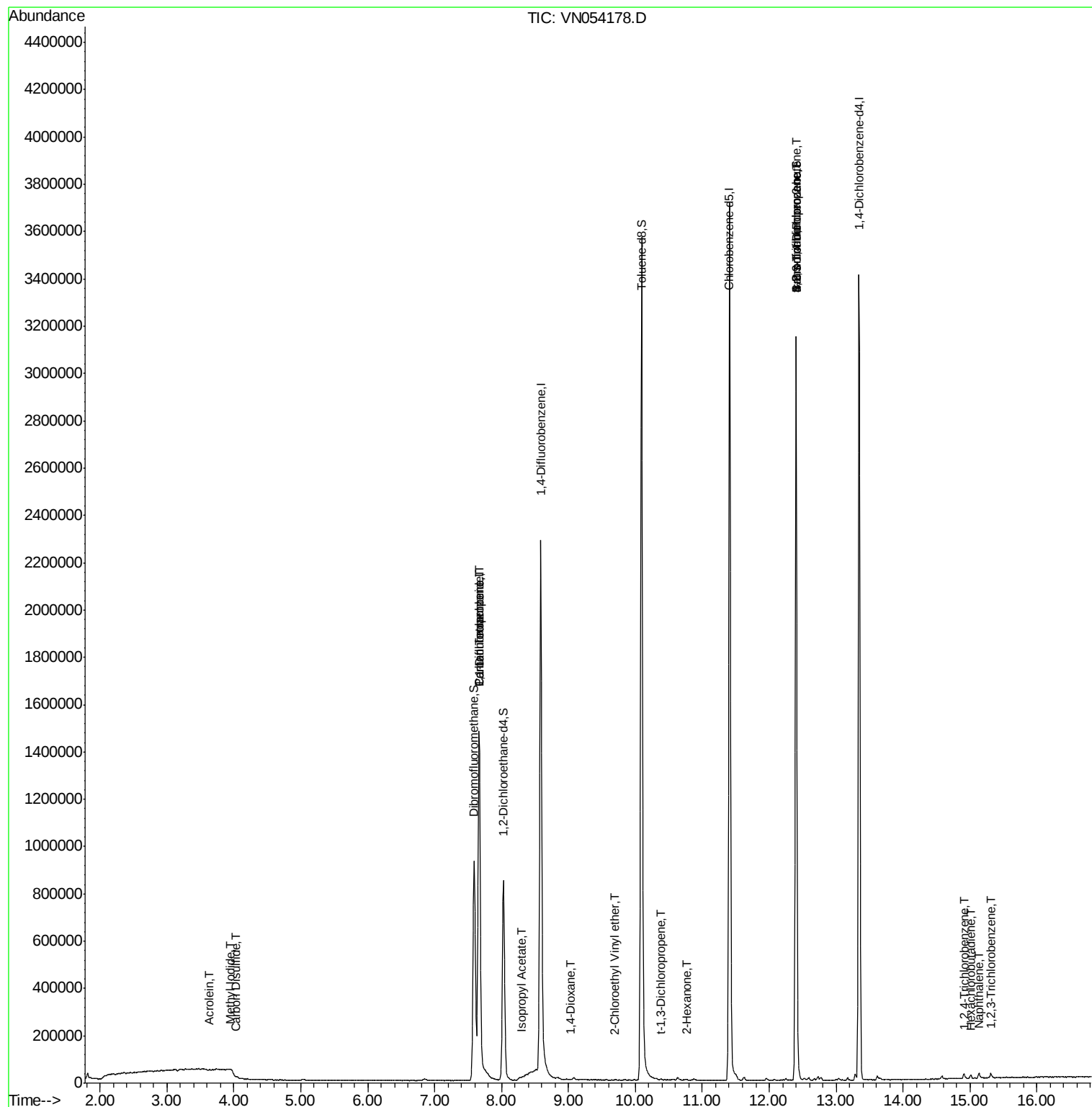
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	1588	1.569	ug/l #	73
13) Acrolein	3.62	56	741	0.747	ug/l #	59
17) Carbon Disulfide	4.04	76	10082	0.269	ug/l	98
31) Cyclohexane	7.66	56	22660	Below Cal	#	18
36) 1,1-Dichloropropene	7.66	75	83892	3.940	ug/l #	48
38) Carbon Tetrachloride	7.66	117	113949	5.103	ug/l #	16
43) Isopropyl Acetate	8.30	43	16278	0.758	ug/l #	60
49) 1,4-Dioxane	9.03	88	65	0.422	ug/l #	1
53) t-1,3-Dichloropropene	10.38	75	1409	2.044	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.70	63	235	16.858	ug/l #	44
59) 2-Hexanone	10.76	43	2458	0.325	ug/l	87
71) Bromoform	12.40	173	6709	2.795	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	528521	35.803	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	528521	122.390	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.90	180	6971	2.830	ug/l	97
94) Hexachlorobutadiene	15.02	225	2849	0.214	ug/l	87
95) Naphthalene	15.13	128	18456	3.860	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	7263	0.390	ug/l #	89

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

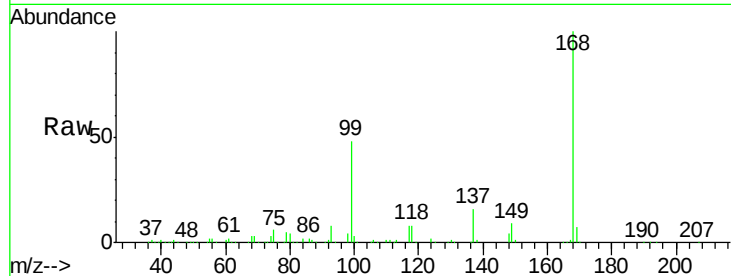
VN0312WBL02

Tot Ion:168 Resp: 1438108

Ion Ratio Lower Upper

168 100

99 47.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

600000

500000

400000

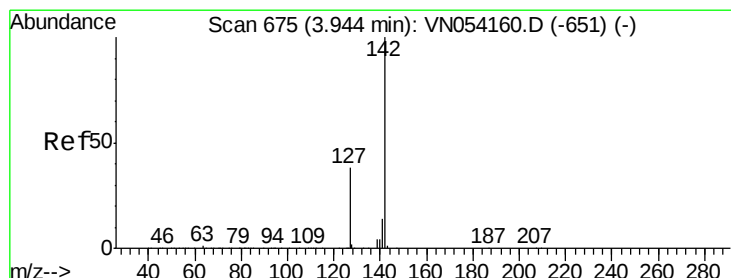
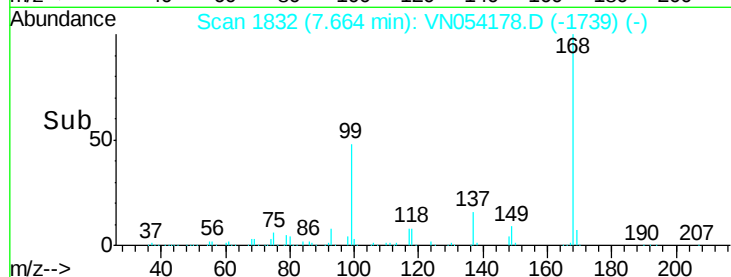
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.569 ug/l

RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

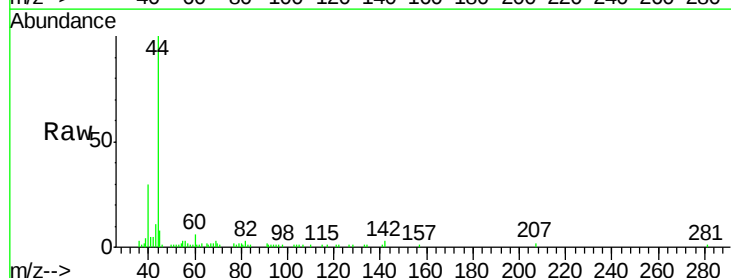
Tgt Ion:142 Resp: 1588

Ion Ratio Lower Upper

142 100

127 55.8 30.3 45.5#

141 6.4 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

800

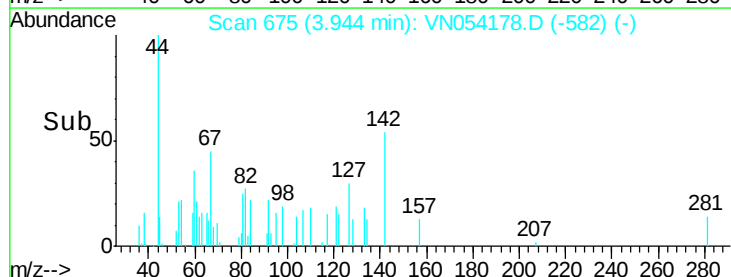
600

400

200

0

Time--> 3.90 3.95 4.00





#13

Acrolein

Concen: 0.747 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampled :

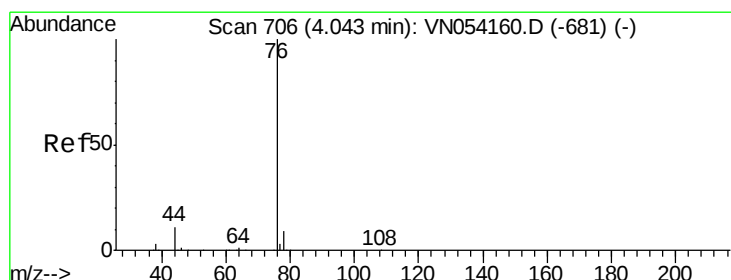
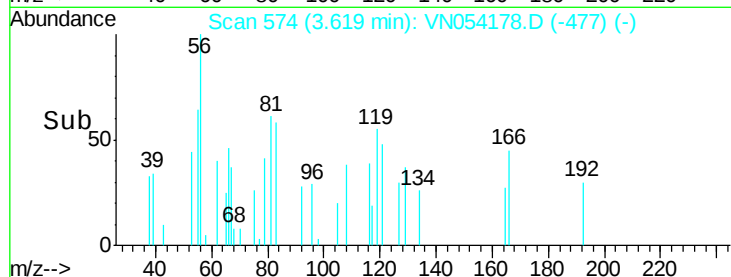
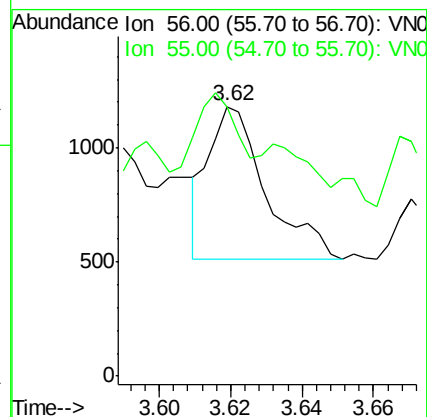
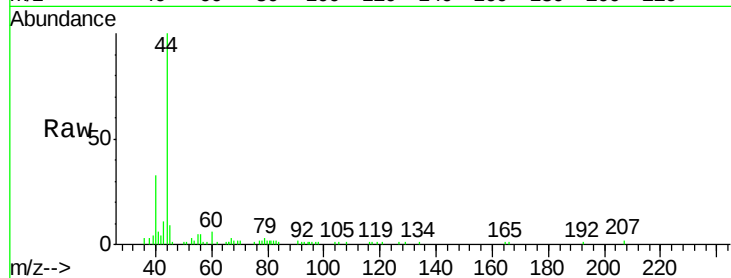
VN0312WBL02

Tot Ion: 56 Resp: 741

Ion Ratio Lower Upper

56 100

55 36.7 56.7 85.1#



#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN054178.D

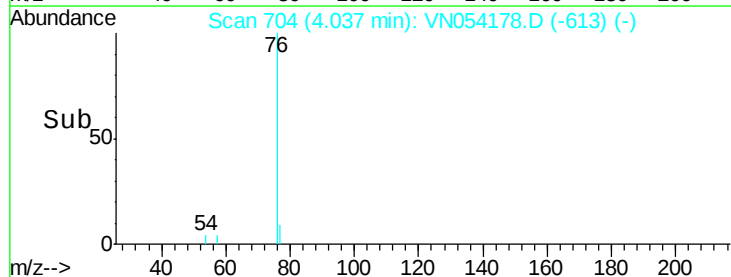
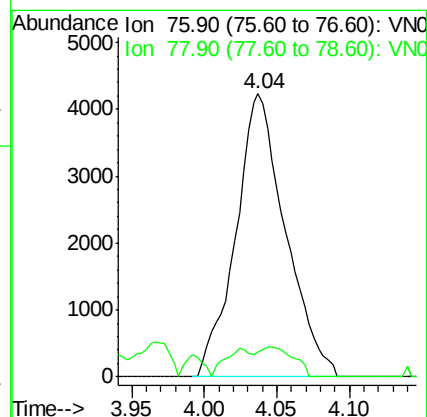
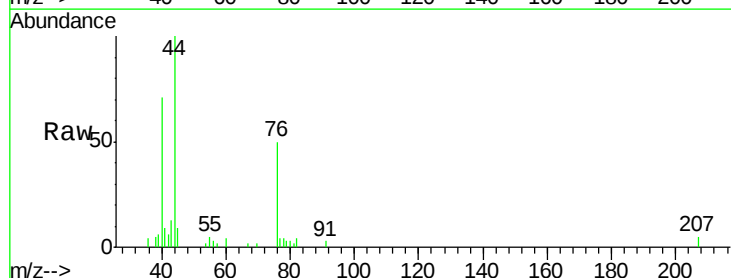
Acq: 12 Mar 2019 22:38

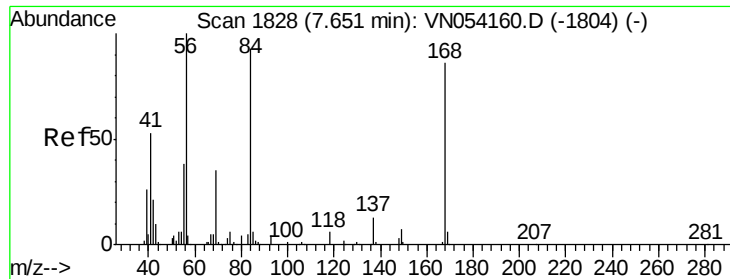
Tgt Ion: 76 Resp: 10082

Ion Ratio Lower Upper

76 100

78 8.6 7.5 11.3

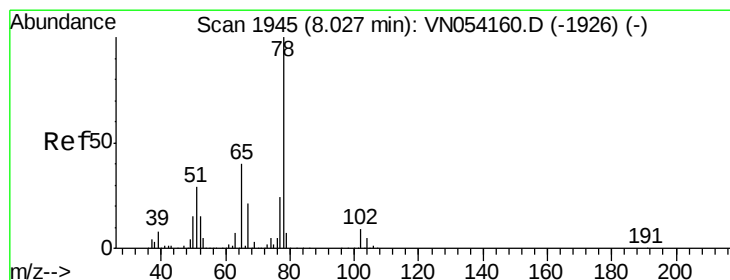
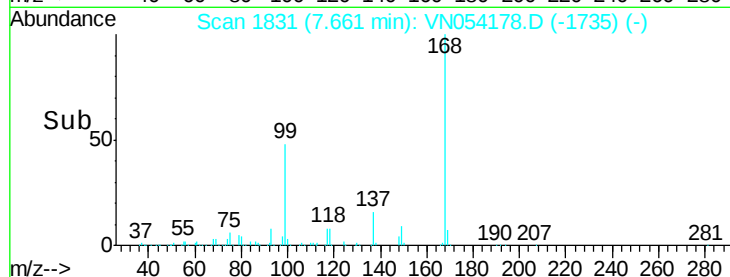
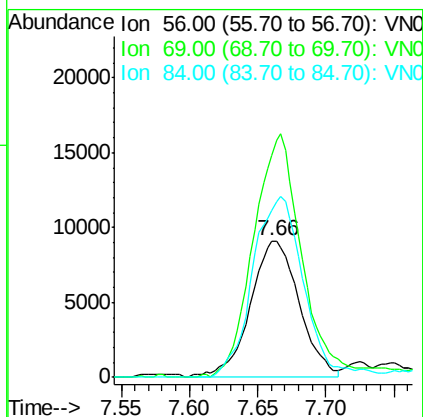
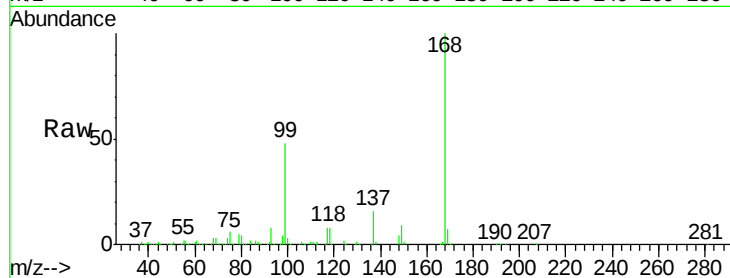




#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054178.D
Acq: 12 Mar 2019 22:38

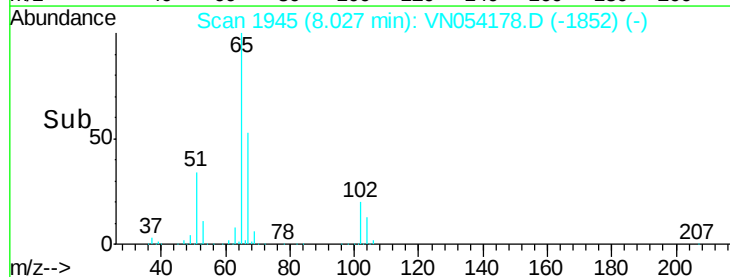
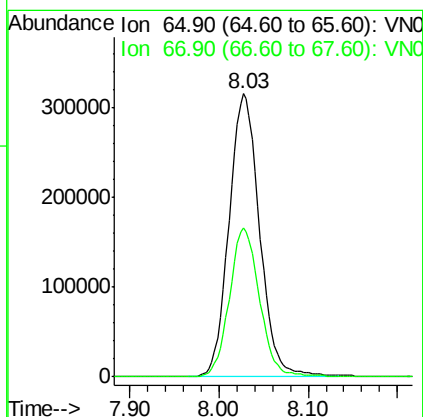
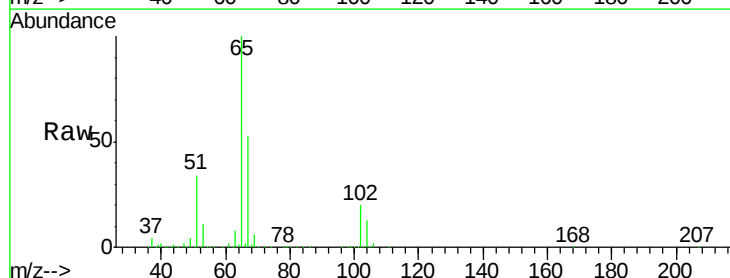
Instrument :
MSVOA_N
ClientSampleId :
VN0312WBL02

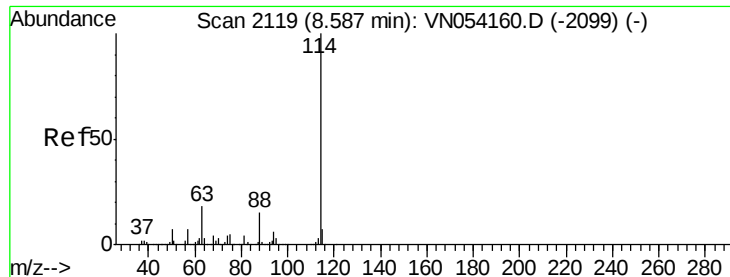
Tot Ion: 56 Resp: 22660
Ion Ratio Lower Upper
56 100
69 162.1 27.8 41.6#
84 122.0 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 49.099 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054178.D
Acq: 12 Mar 2019 22:38

Tgt Ion: 65 Resp: 749884
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.6

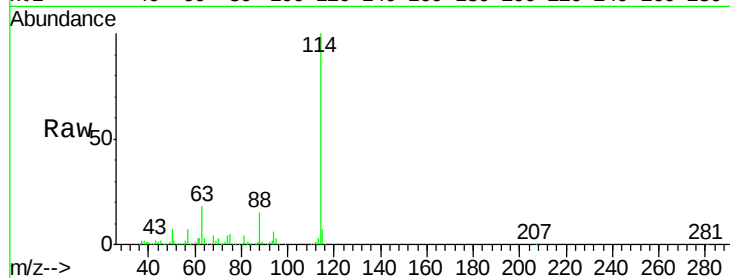




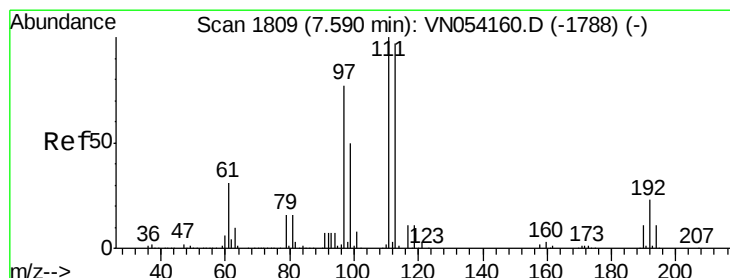
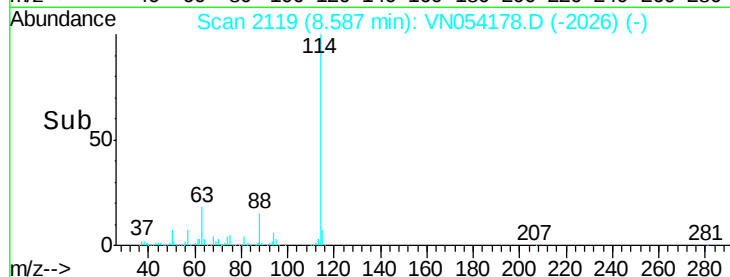
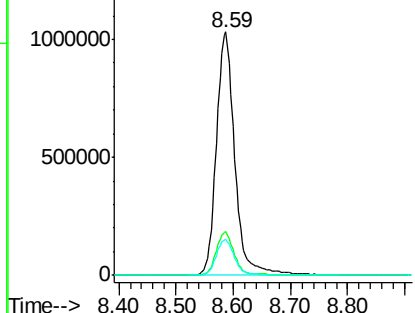
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054178.D
 Acq: 12 Mar 2019 22:38

Instrument :
 MSVOA_N
 ClientSampled :
 VN0312WBL02

Tot Ion:114 Resp: 2312209
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 35.2
 88 14.8 0.0 30.2

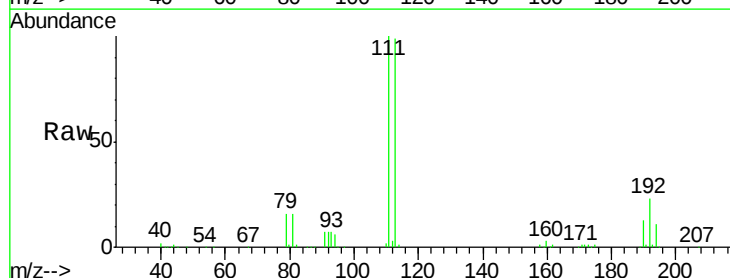


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

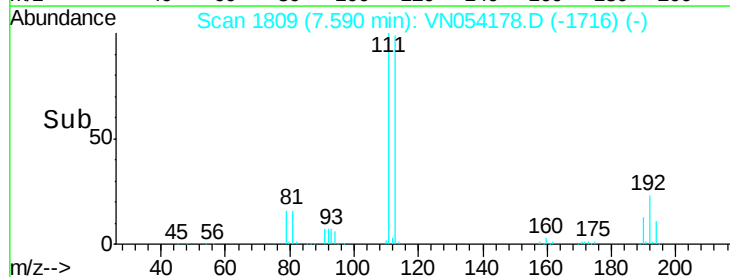
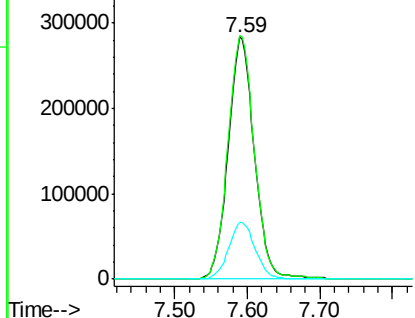


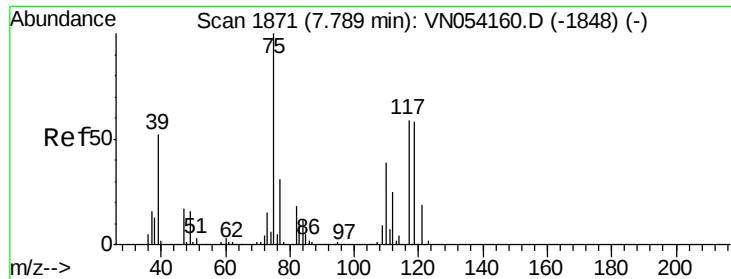
#35
 Dibromofluoromethane
 Concen: 47.695 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054178.D
 Acq: 12 Mar 2019 22:38

Tgt Ion:113 Resp: 711264
 Ion Ratio Lower Upper
 113 100
 111 101.3 82.2 123.4
 192 23.8 19.2 28.8



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

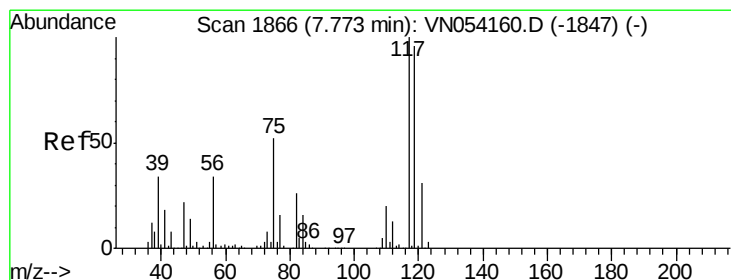
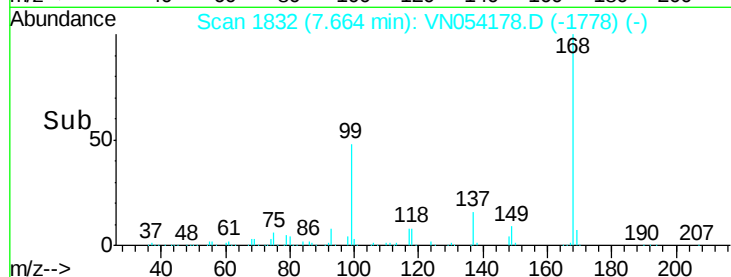
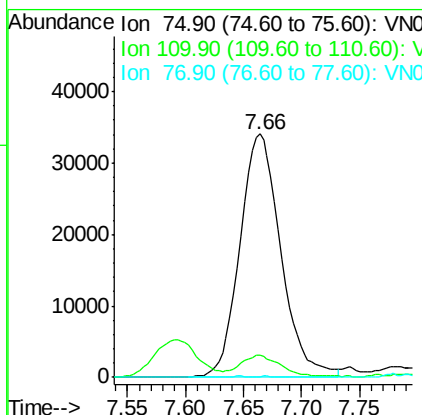
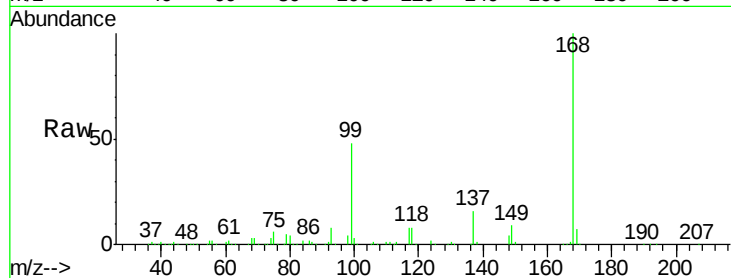




#36
 1,1-Dichloropropene
 Concen: 3.940 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054178.D
 Acq: 12 Mar 2019 22:38

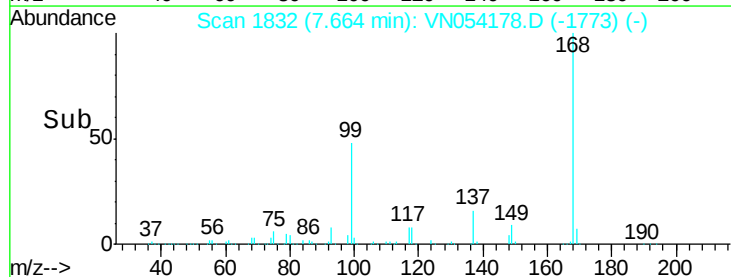
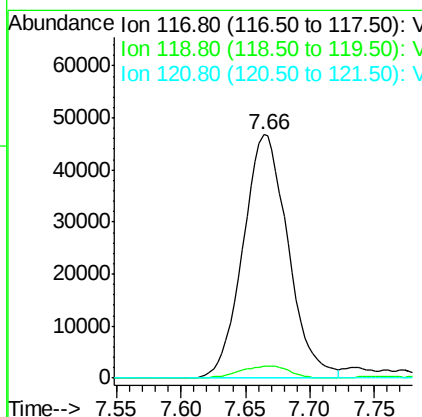
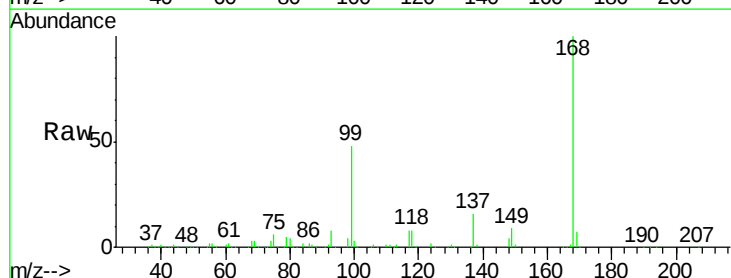
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0312WBL02

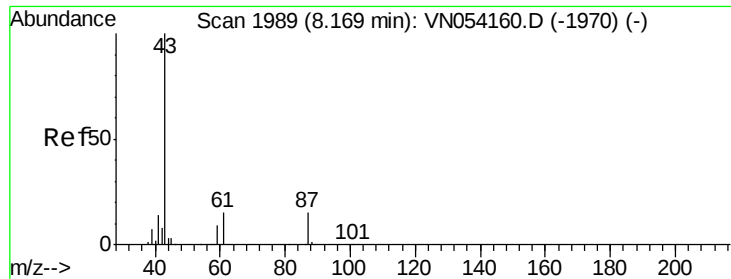
Tot Ion	75	Resp	83892
Ion Ratio	Lower	Upper	
75	100		
110	9.1	19.1	57.5#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.103 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054178.D
 Acq: 12 Mar 2019 22:38

Tgt Ion	117	Resp	113949
Ion Ratio	Lower	Upper	
117	100		
119	4.6	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 0.758 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0312WBL02

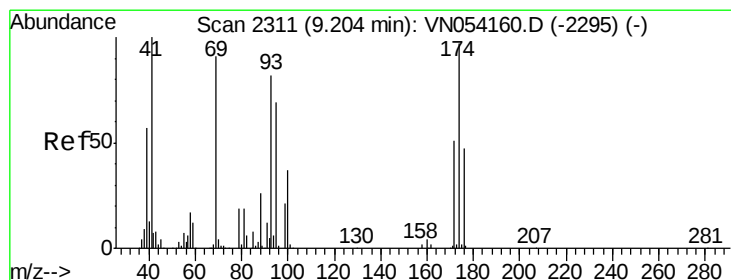
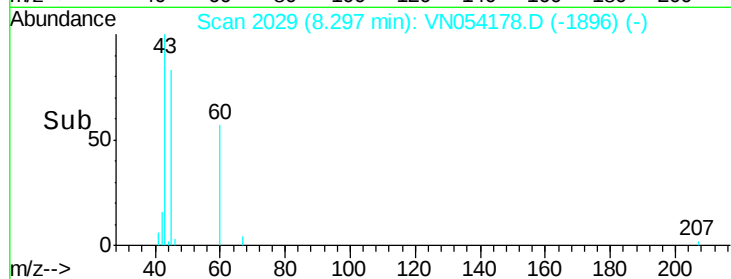
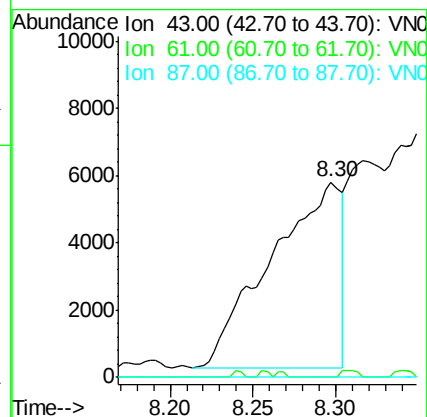
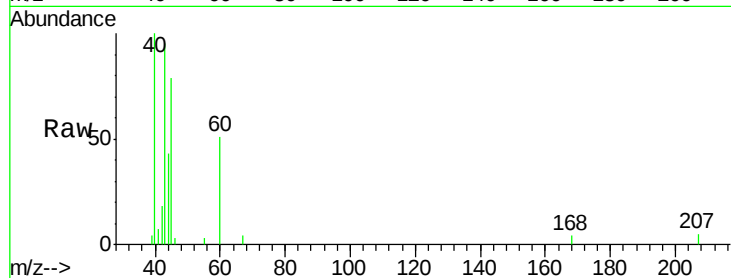
Tot Ion: 43 Resp: 16278

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#49

1,4-Dioxane

Concen: 0.422 ug/l

RT: 9.03 min Scan# 2256

Delta R.T. -0.18 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

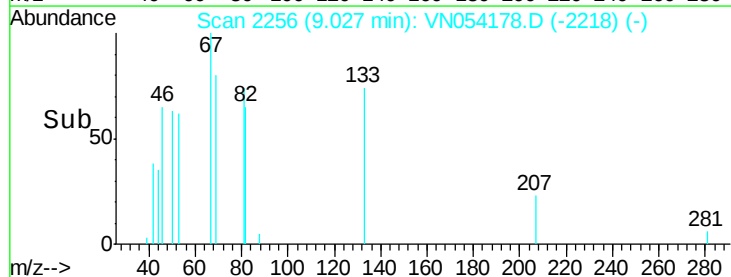
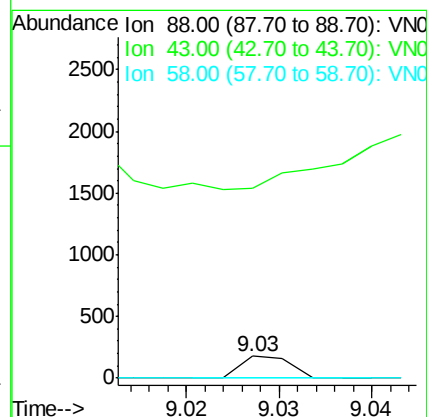
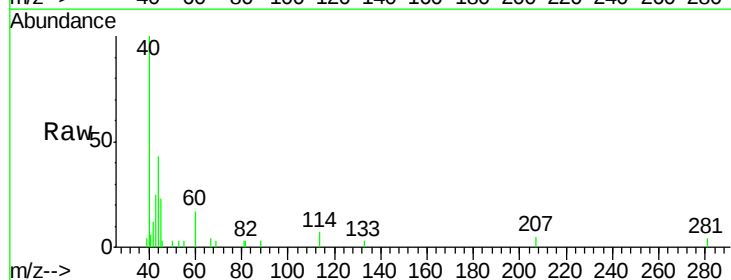
Tgt Ion: 88 Resp: 65

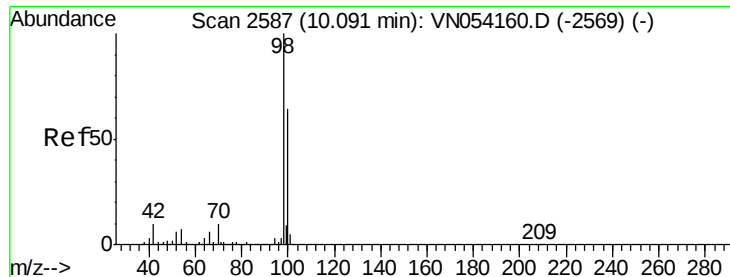
Ion Ratio Lower Upper

88 100

43 1632.3 24.1 36.1#

58 0.0 50.8 76.2#





#50

Toluene-d8

Concen: 51.998 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

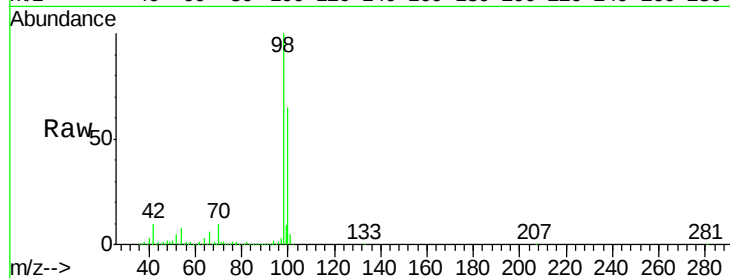
VN0312WBL02

Tot Ion: 98 Resp: 2863789

Ion Ratio Lower Upper

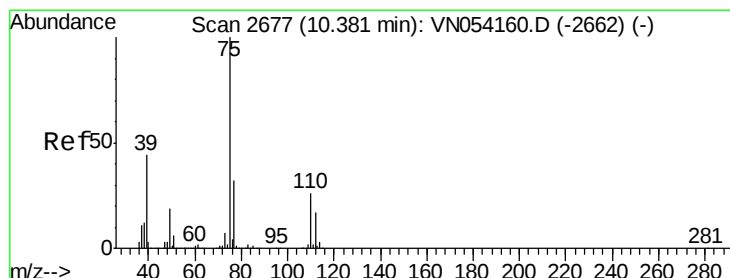
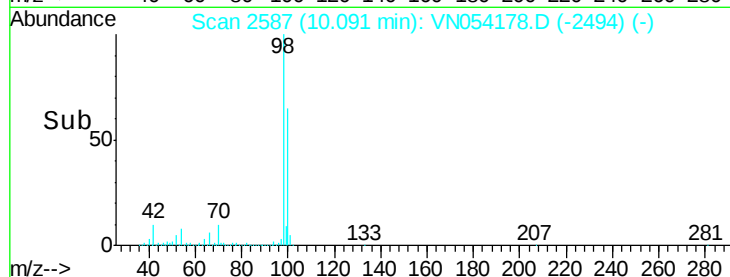
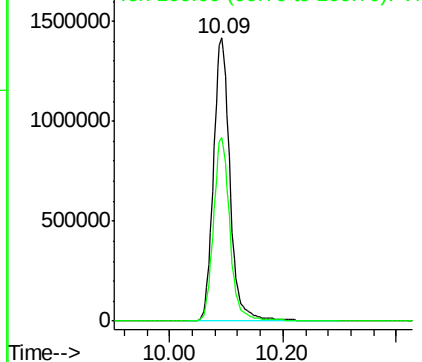
98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#53

t-1,3-Dichloropropene

Concen: 2.044 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054178.D

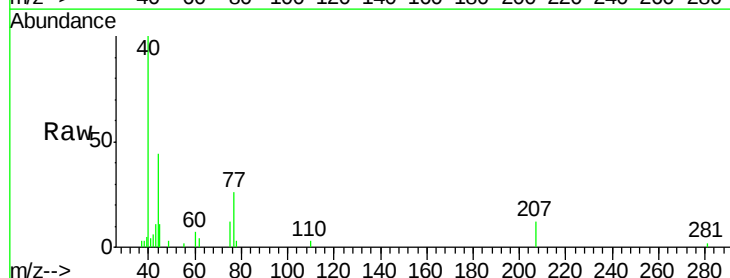
Acq: 12 Mar 2019 22:38

Tgt Ion: 75 Resp: 1409

Ion Ratio Lower Upper

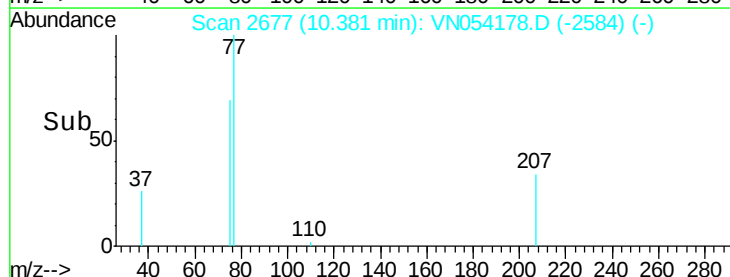
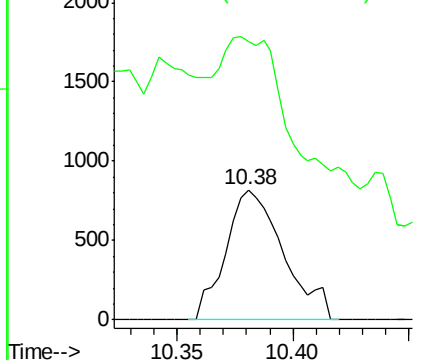
75 100

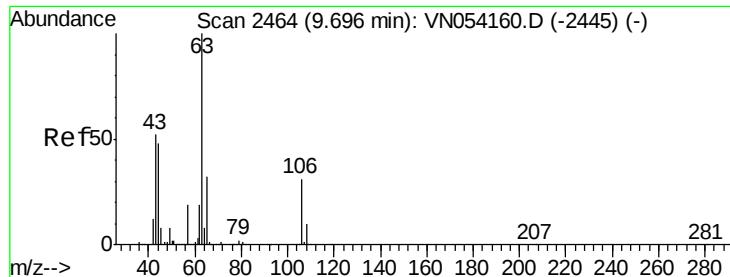
77 96.8 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 16.858 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

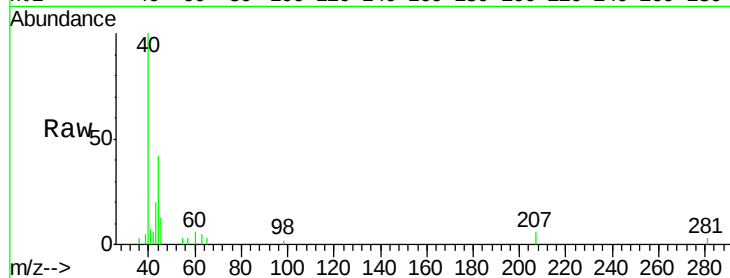
VN0312WBL02

Tot Ion: 63 Resp: 235

Ion Ratio Lower Upper

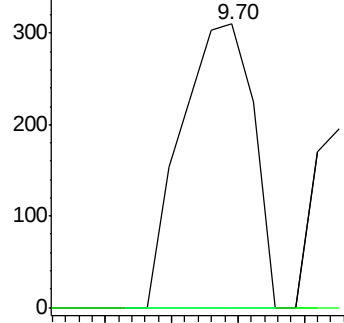
63 100

106 0.0 24.4 36.6#

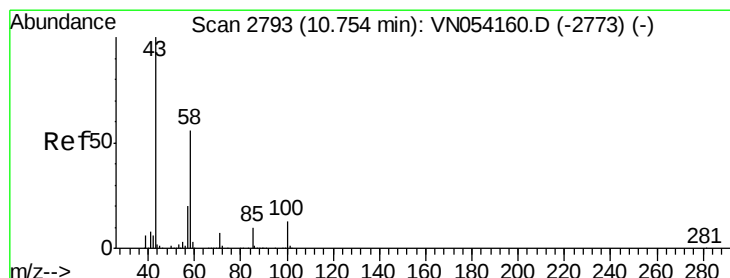
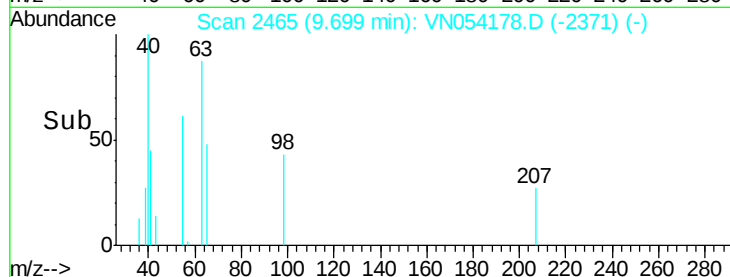


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



Time-->



#59

2-Hexanone

Concen: 0.325 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054178.D

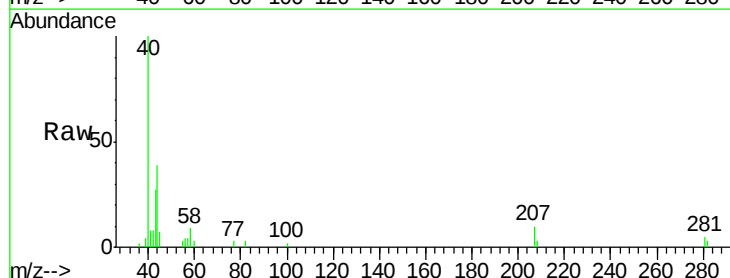
Acq: 12 Mar 2019 22:38

Tgt Ion: 43 Resp: 2458

Ion Ratio Lower Upper

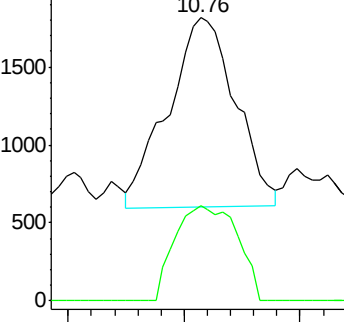
43 100

58 46.5 28.0 83.9

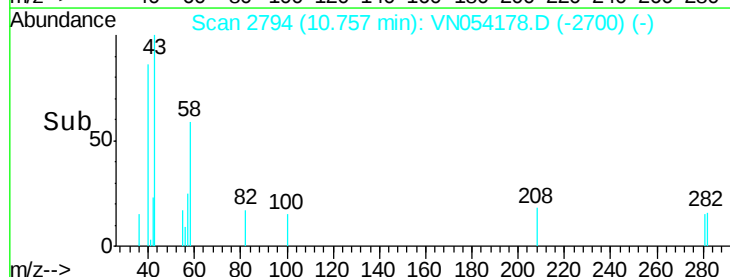


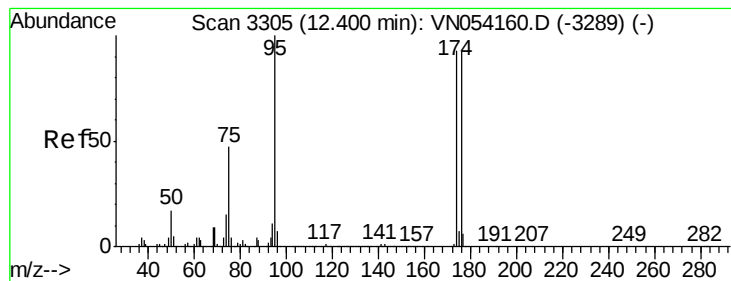
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 55.802 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0312WBL02

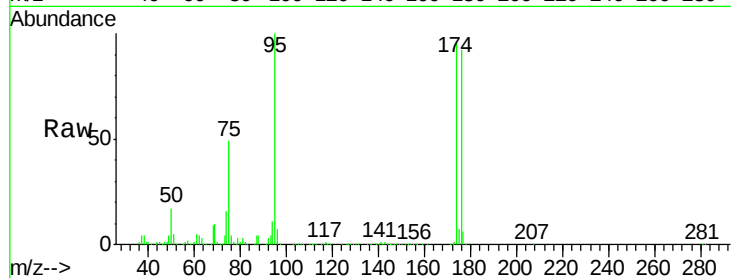
Tot Ion: 95 Resp: 1075343

Ion Ratio Lower Upper

95 100

174 97.3 0.0 191.0

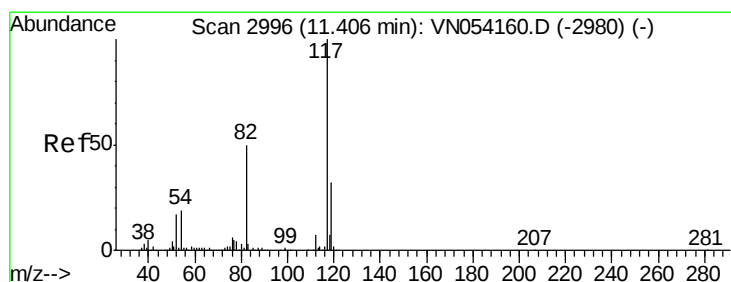
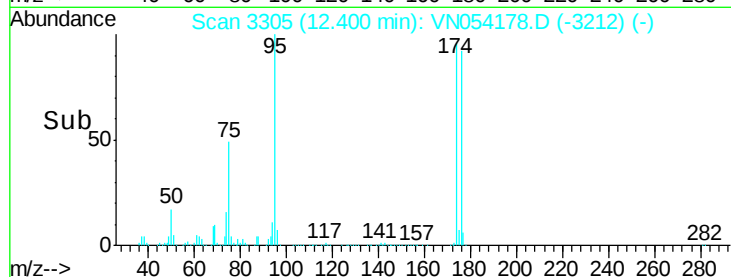
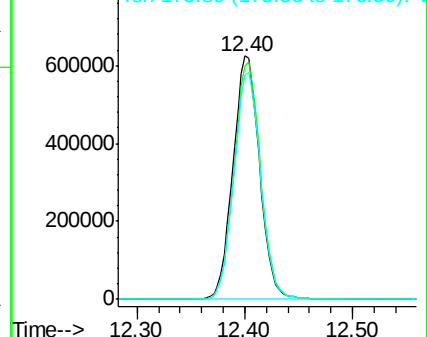
176 94.0 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054160.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054160.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054160.D (-3289) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

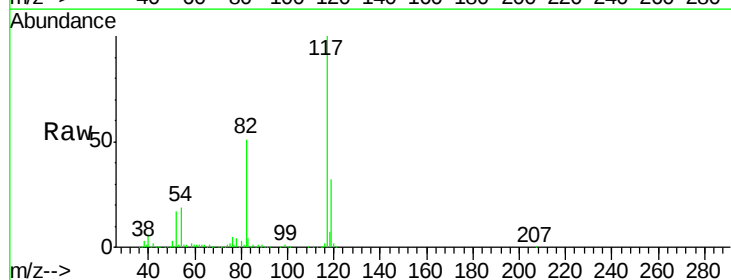
Tgt Ion: 117 Resp: 2365252

Ion Ratio Lower Upper

117 100

82 51.0 40.0 60.0

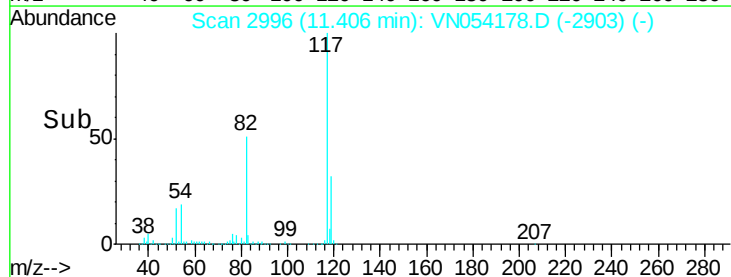
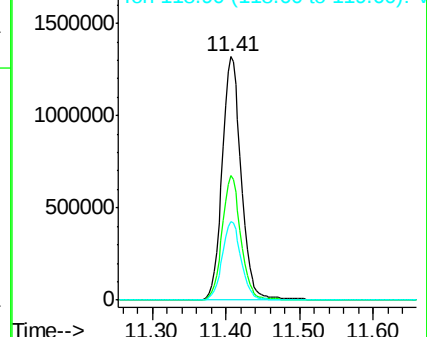
119 32.4 25.8 38.6

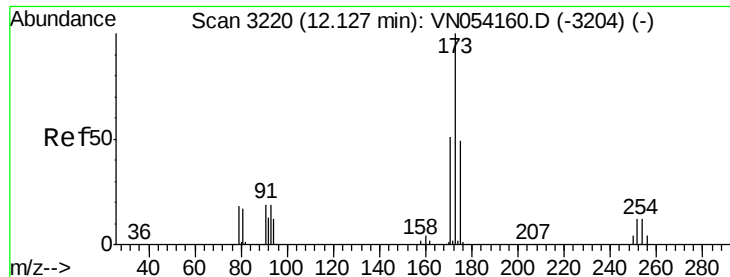


Abundance Ion 116.90 (116.60 to 117.60): VN054160.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN054160.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN054160.D (-2980) (-)





#71

Bromoform

Concen: 2.795 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0312WBL02

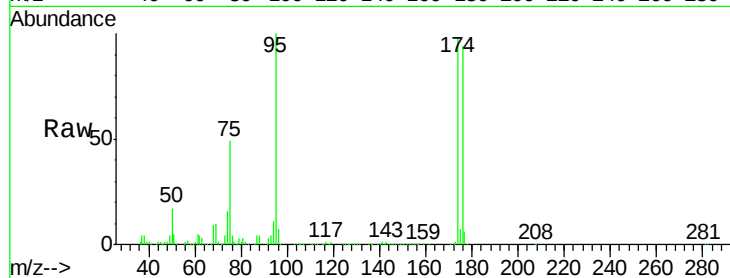
Tot Ion:173 Resp: 6709

Ion Ratio Lower Upper

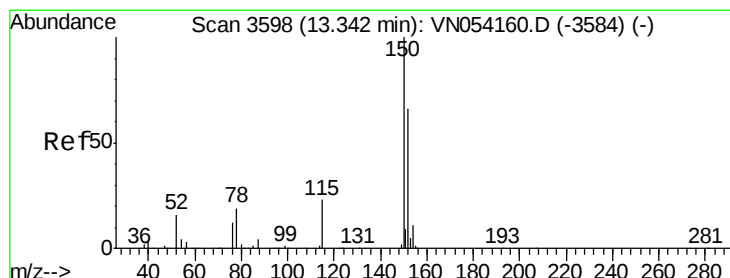
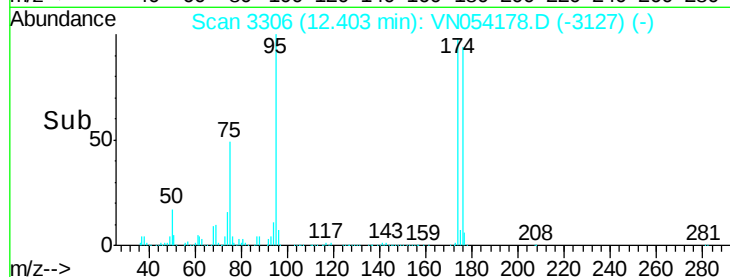
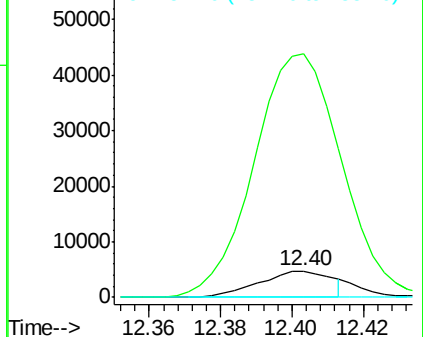
173 100

175 970.1 24.4 73.2#

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

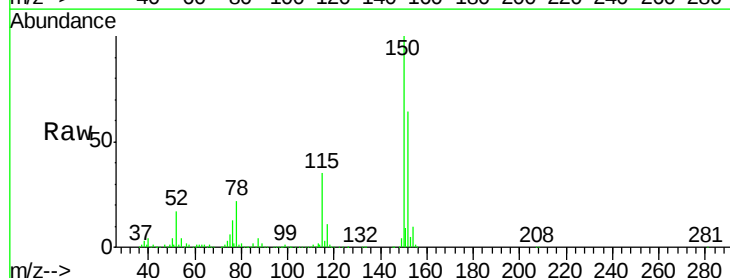
Tgt Ion:152 Resp: 1003843

Ion Ratio Lower Upper

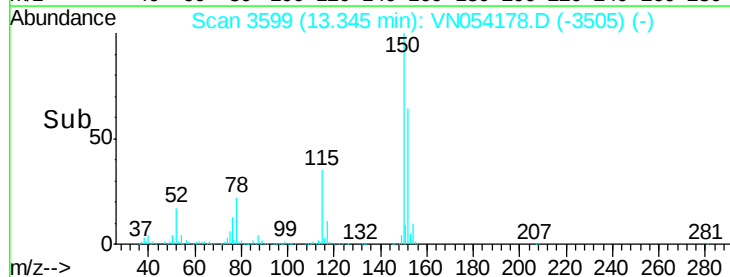
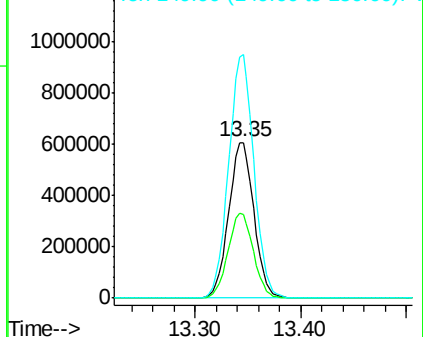
152 100

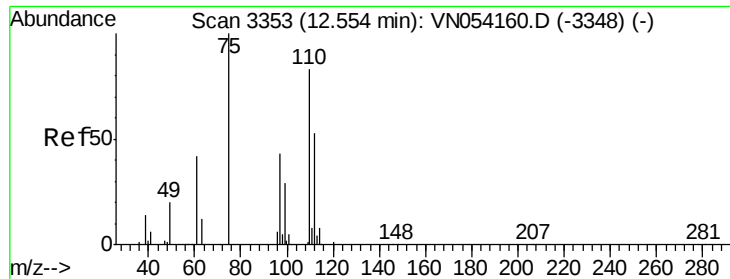
115 54.6 27.2 81.6

150 155.6 0.0 349.2



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: 35.803 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

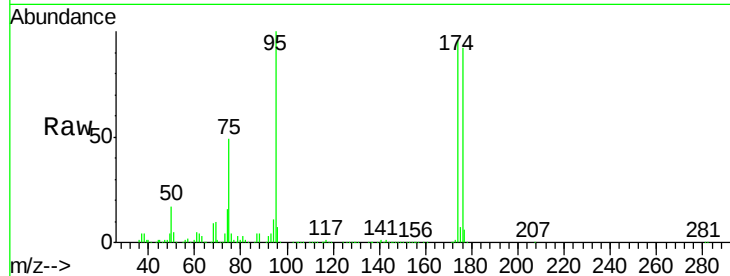
VN0312WBL02

Tot Ion: 75 Resp: 528521

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

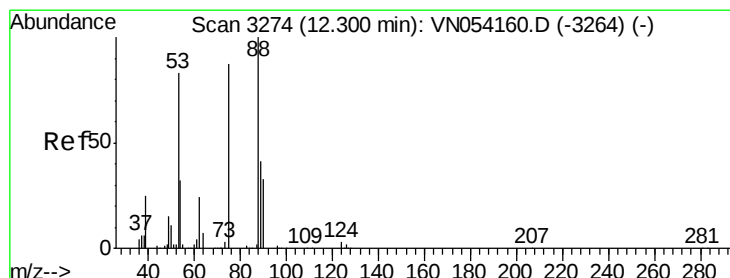
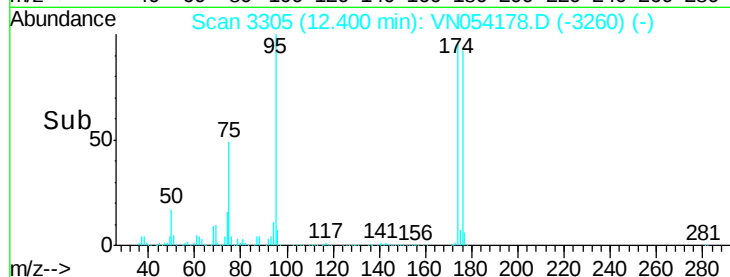
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 122.390 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

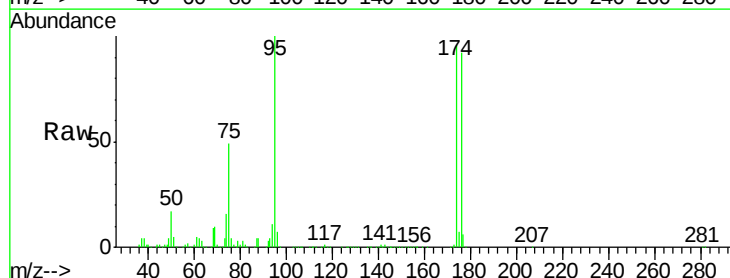
Tgt Ion: 75 Resp: 528521

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

400000

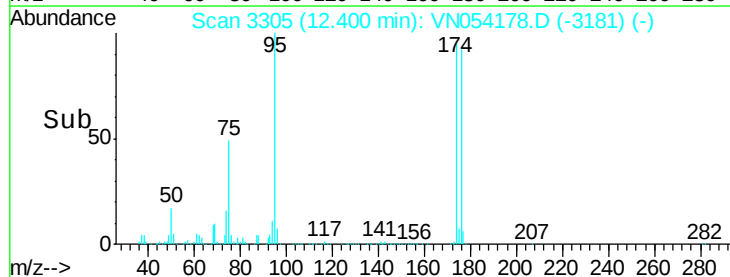
300000

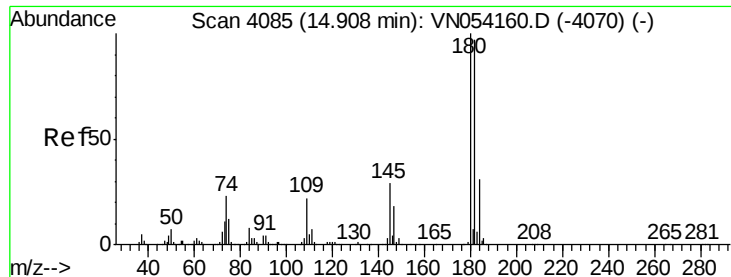
200000

100000

0

Time--> 12.30 12.40 12.50

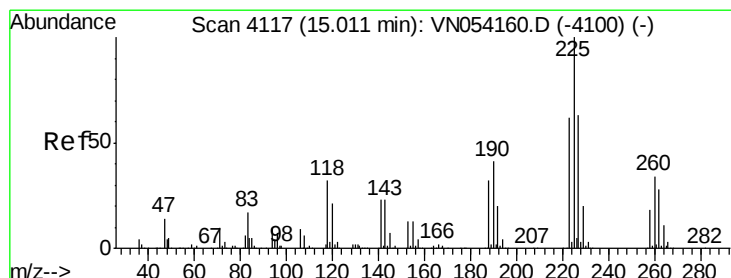
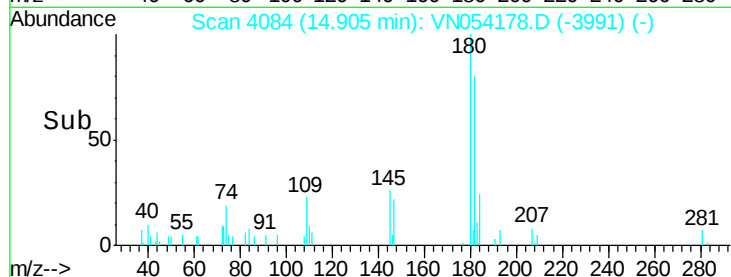
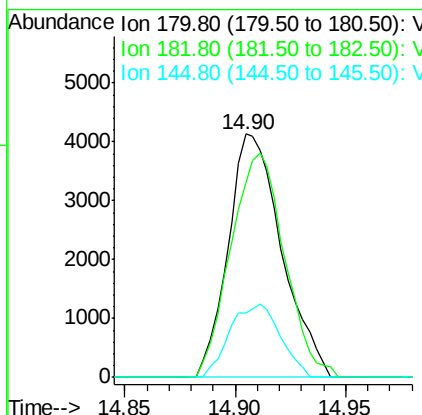
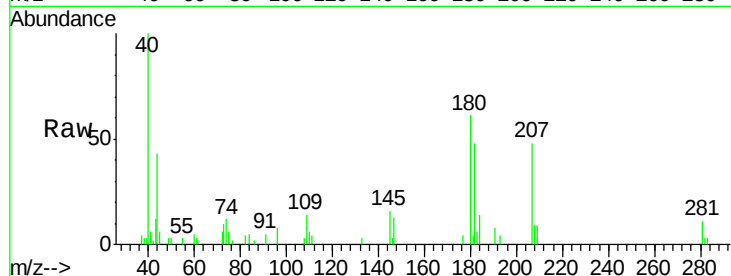




#93
 1,2,4-Trichlorobenzene
 Concen: 2.830 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN054178.D
 Acq: 12 Mar 2019 22:38

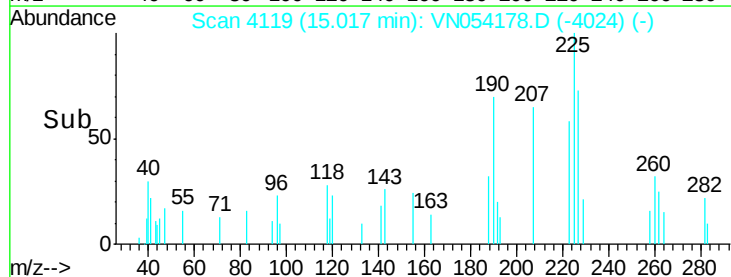
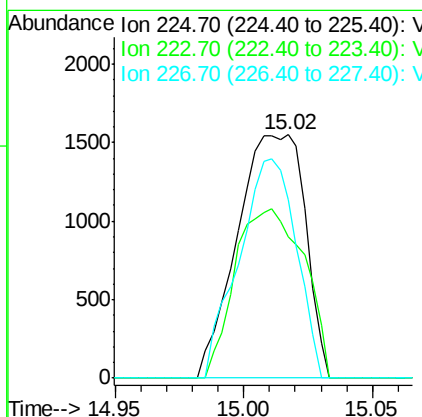
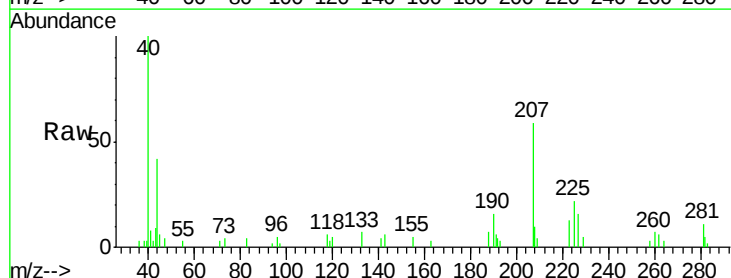
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0312WBL02

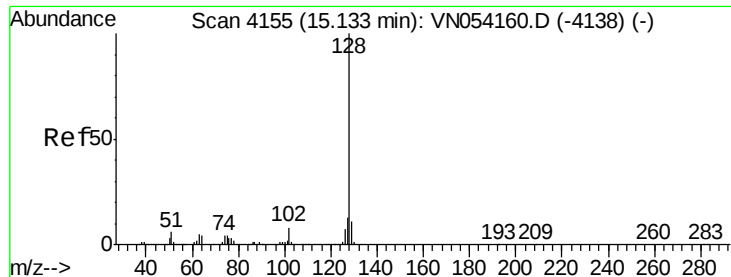
Tot Ion:180 Resp: 6971
 Ion Ratio Lower Upper
 180 100
 182 92.6 48.0 144.2
 145 28.3 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 0.214 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.01 min
 Lab File: VN054178.D
 Acq: 12 Mar 2019 22:38

Tgt Ion:225 Resp: 2849
 Ion Ratio Lower Upper
 225 100
 223 70.8 31.1 93.5
 227 76.0 31.9 95.9





#95

Naphthalene

Concen: 3.860 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

Instrument :

MSVOA_N

ClientSampled :

VN0312WBL02

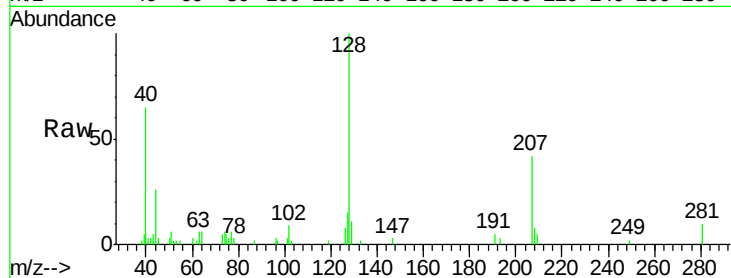
Tot Ion:128 Resp: 18456

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

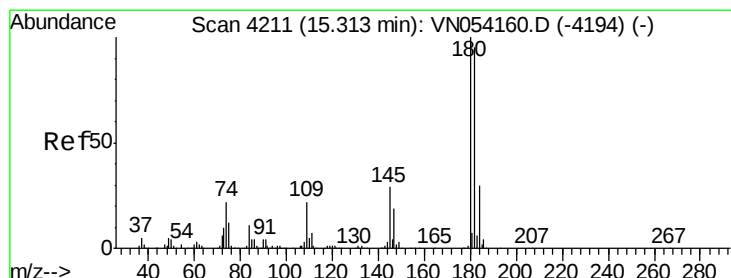
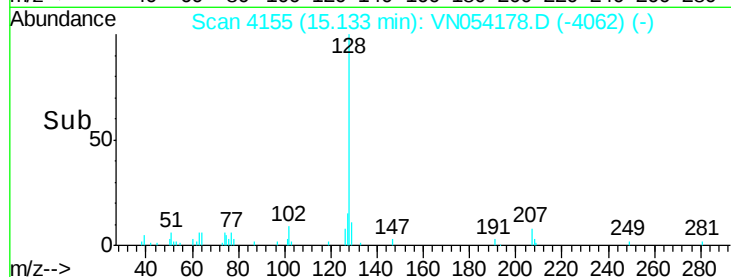
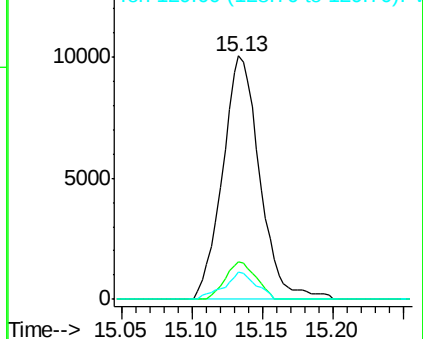
129 9.5 8.7 13.1



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: 0.390 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054178.D

Acq: 12 Mar 2019 22:38

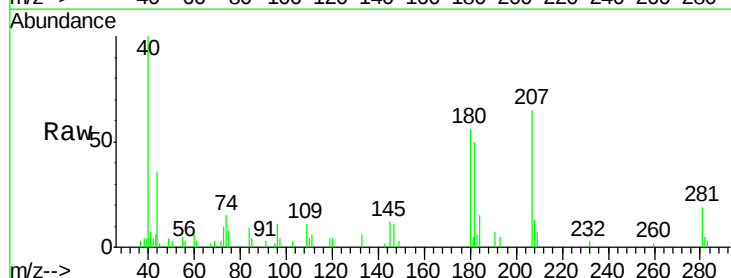
Tgt Ion:180 Resp: 7263

Ion Ratio Lower Upper

180 100

182 98.5 47.5 142.6

145 10.4 14.8 44.3#



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

