

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
 Data File : VN051808.D
 Acq On : 11 Oct 2018 10:57
 Operator : MD\SY
 Sample : I.BLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Oct 11 13:19:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 13:17:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	828186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1178699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1042443	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	401546	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	472008	59.63	ug/l	0.00
Spiked Amount			Recovery	=	119.26%	
35) Dibromofluoromethane	7.59	113	440990	60.17	ug/l	0.00
Spiked Amount			Recovery	=	120.34%	
50) Toluene-d8	10.09	98	1673352	61.27	ug/l	0.00
Spiked Amount			Recovery	=	122.54%	
62) 4-Bromofluorobenzene	12.40	95	491824	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	

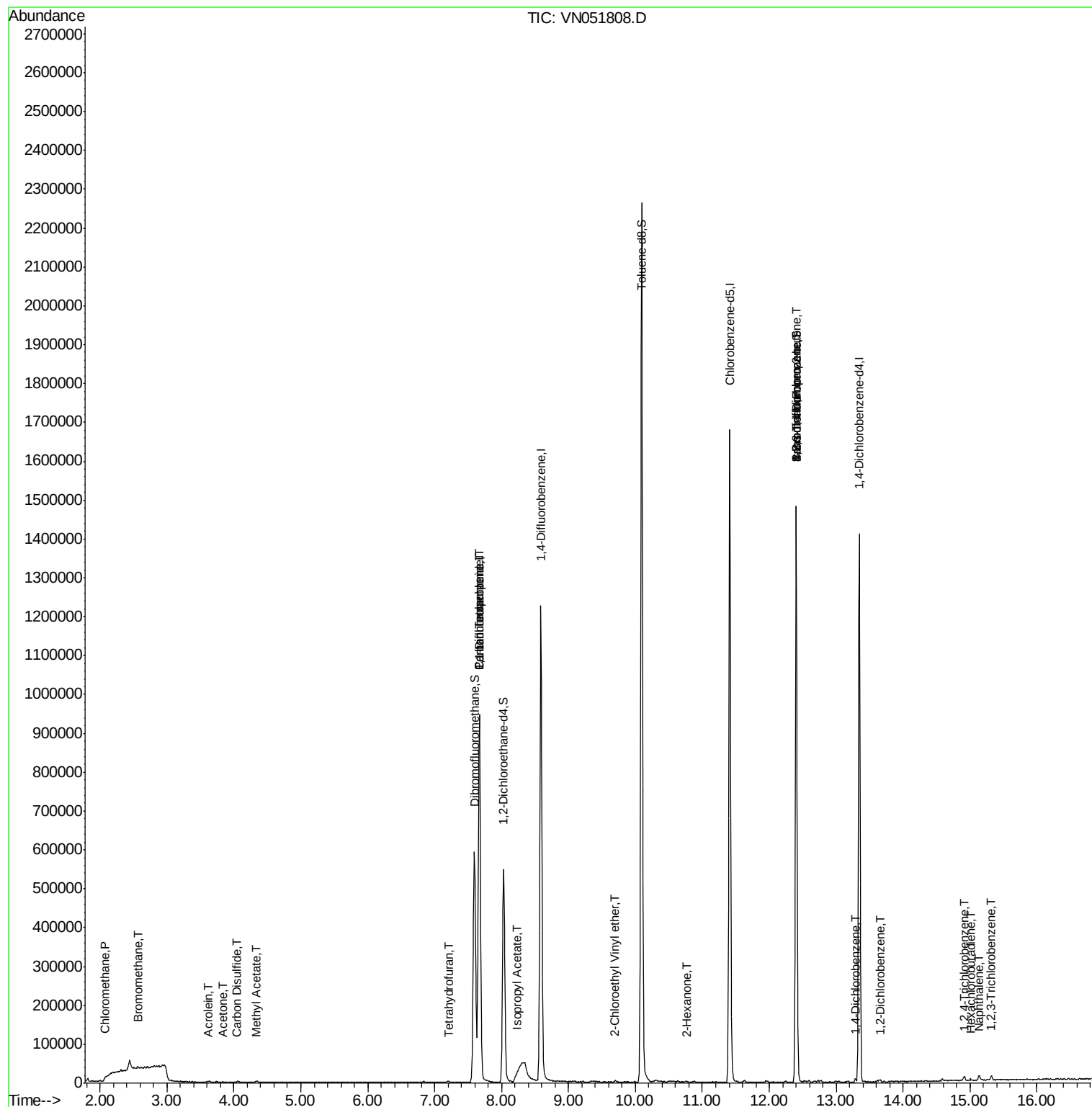
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1184	0.21	ug/l	91
5) Bromomethane	2.56	94	3701	0.49	ug/l #	72
13) Acrolein	3.61	56	1385	18.11	ug/l #	54
16) Acetone	3.83	43	743	0.44	ug/l #	41
17) Carbon Disulfide	4.05	76	4905	0.30	ug/l	98
18) Methyl Acetate	4.35	43	3395	0.70	ug/l	93
29) Tetrahydrofuran	7.22	42	539	0.37	ug/l #	37
31) Cyclohexane	7.66	56	13735	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	52585	5.51	ug/l #	50
38) Carbon Tetrachloride	7.67	117	76311	6.90	ug/l #	15
43) Isopropyl Acetate	8.22	43	10912	1.10	ug/l #	58
58) 2-Chloroethyl Vinyl ether	9.70	63	1645	0.46	ug/l #	66
59) 2-Hexanone	10.76	43	1161	0.33	ug/l #	23
71) Bromoform	12.40	173	3547	4.10	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	247513	49.96	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	247513	141.94	ug/l #	15
88) 1,4-Dichlorobenzene	13.28	146	2573	0.20	ug/l	94
91) 1,2-Dichlorobenzene	13.66	146	2647	0.21	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	3894	4.19	ug/l	94
94) Hexachlorobutadiene	15.01	225	1198	0.29	ug/l	74
95) Naphthalene	15.14	128	10883	5.07	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	4179	3.46	ug/l	98

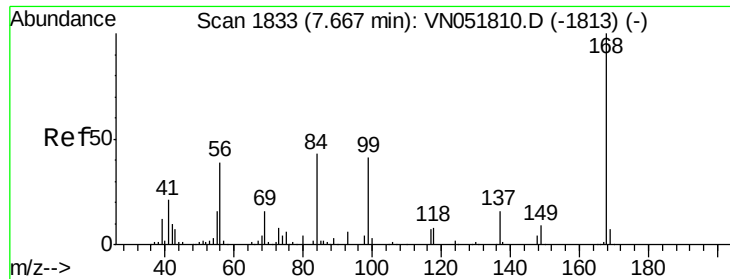
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 11 13:17:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampleId :

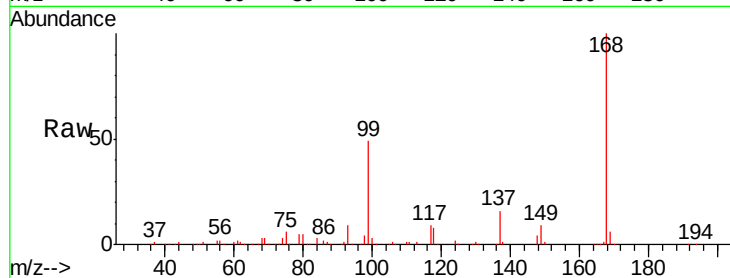
I.BLK

Tgt Ion: 168 Resp: 828186

Ion Ratio Lower Upper

168 100

99 49.2 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

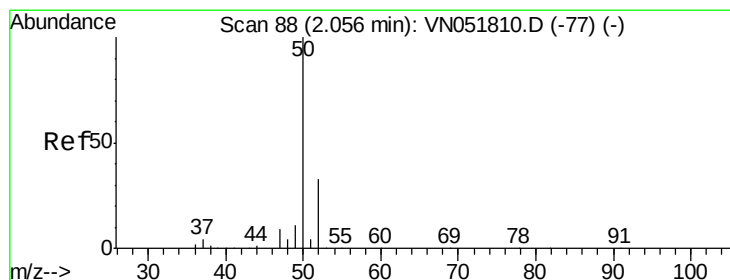
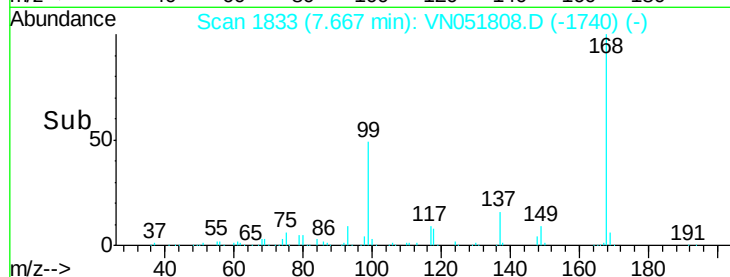
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051808.D

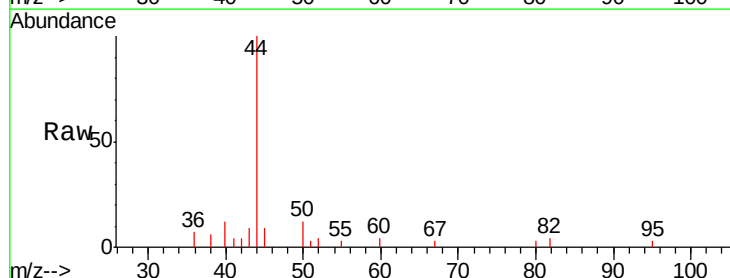
Acq: 11 Oct 2018 10:57

Tgt Ion: 50 Resp: 1184

Ion Ratio Lower Upper

50 100

52 38.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

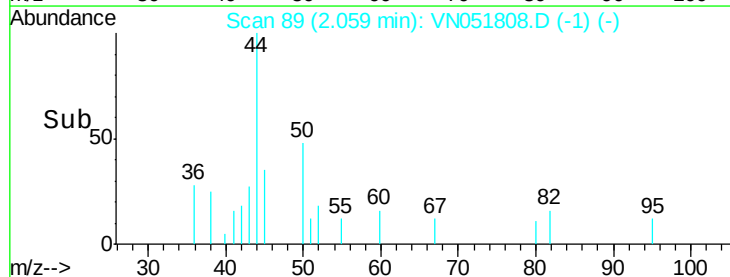
600

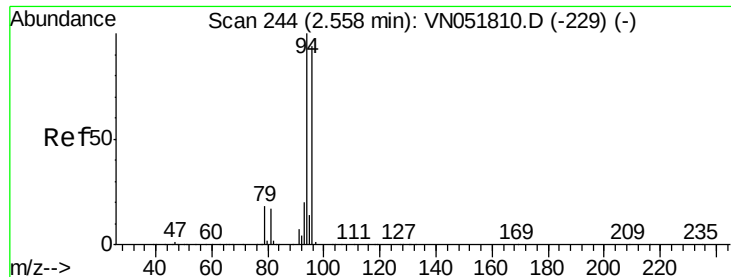
400

200

0

Time-->





#5

Bromomethane

Concen: 0.49 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampled :

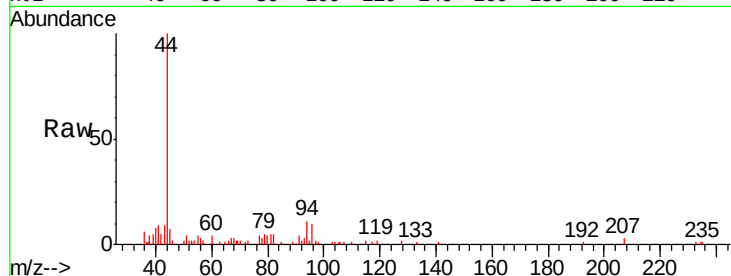
I.BLK

Tgt Ion: 94 Resp: 3701

Ion Ratio Lower Upper

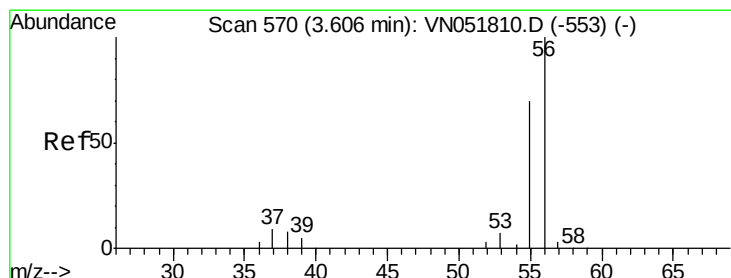
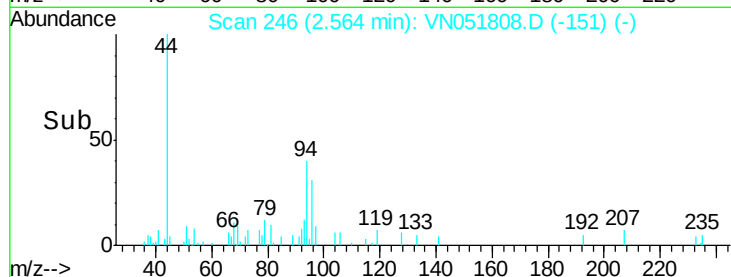
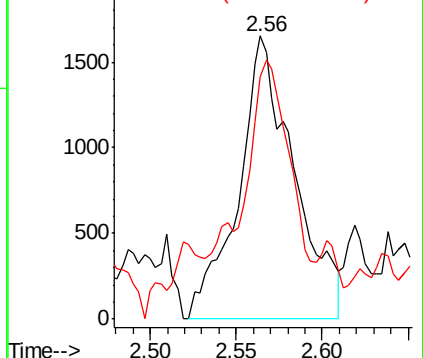
94 100

96 68.3 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 18.11 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051808.D

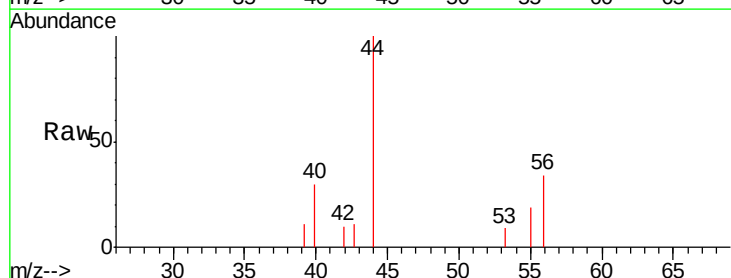
Acq: 11 Oct 2018 10:57

Tgt Ion: 56 Resp: 1385

Ion Ratio Lower Upper

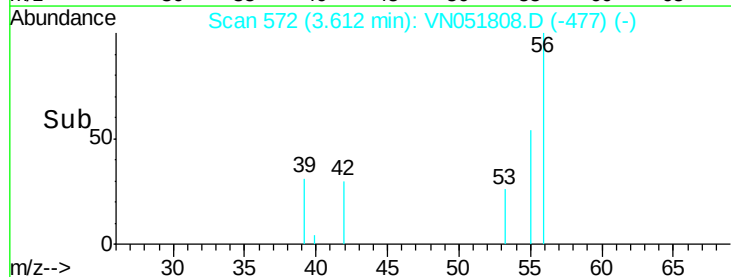
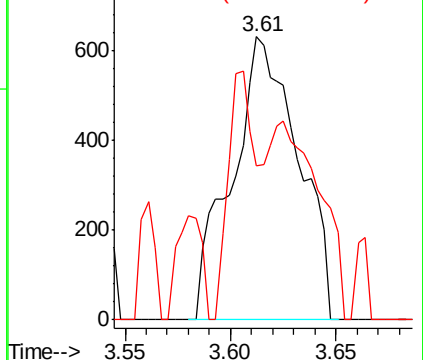
56 100

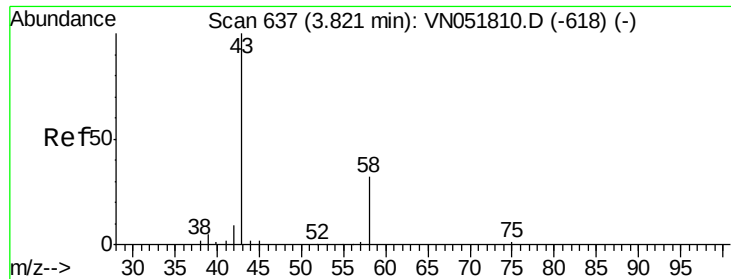
55 33.6 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.44 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.01 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampled :

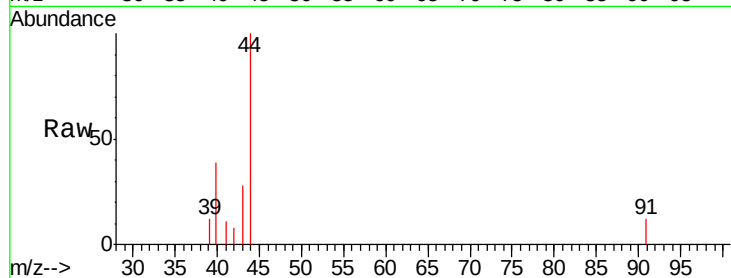
I.BLK

Tgt Ion: 43 Resp: 743

Ion Ratio Lower Upper

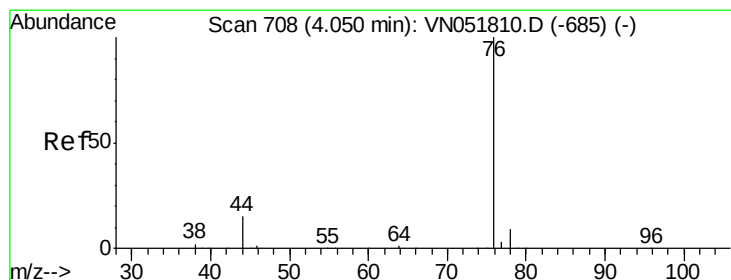
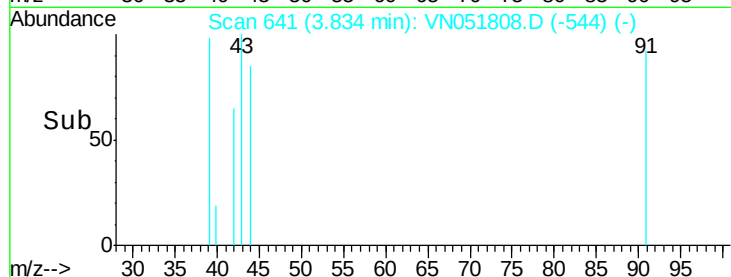
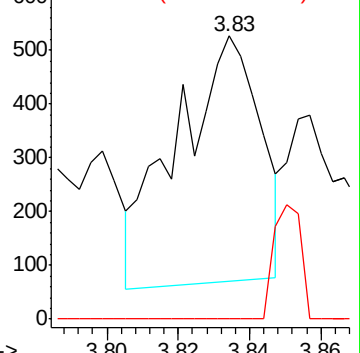
43 100

58 0.0 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.30 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051808.D

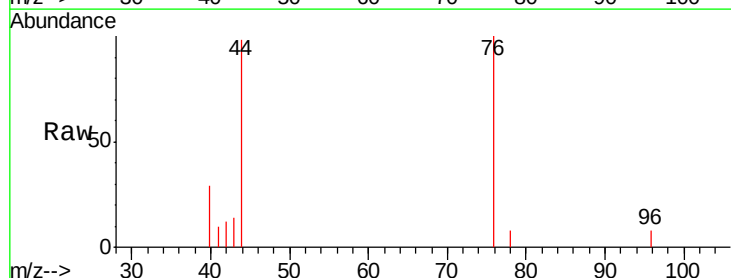
Acq: 11 Oct 2018 10:57

Tgt Ion: 76 Resp: 4905

Ion Ratio Lower Upper

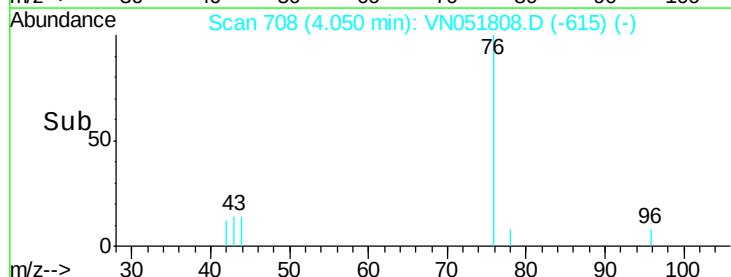
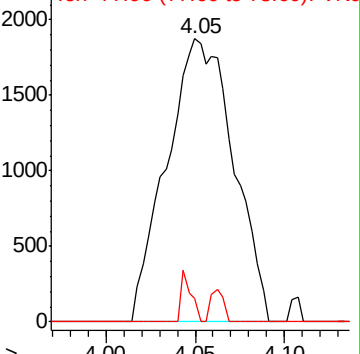
76 100

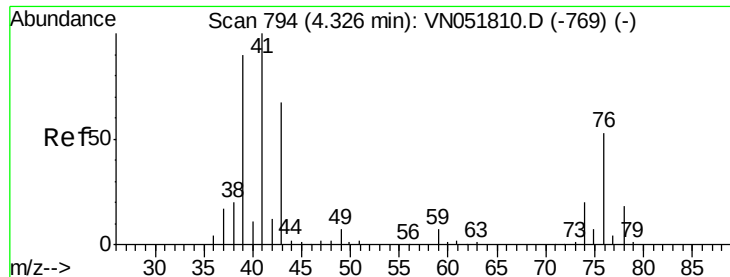
78 8.4 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

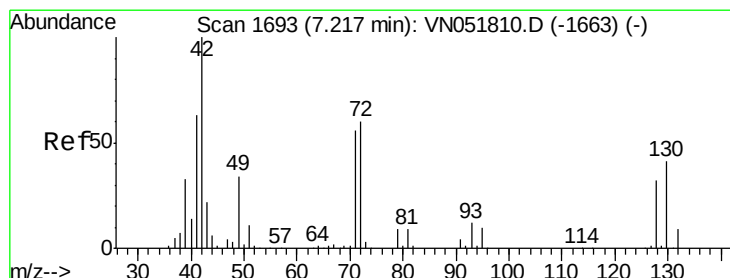
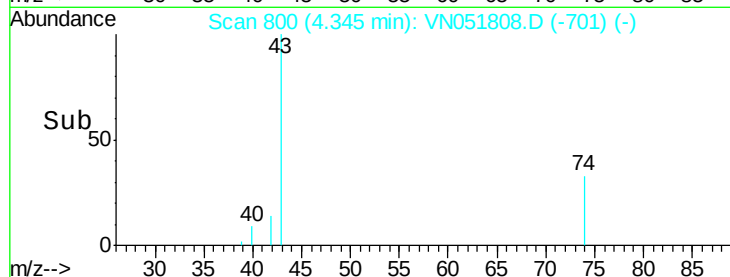
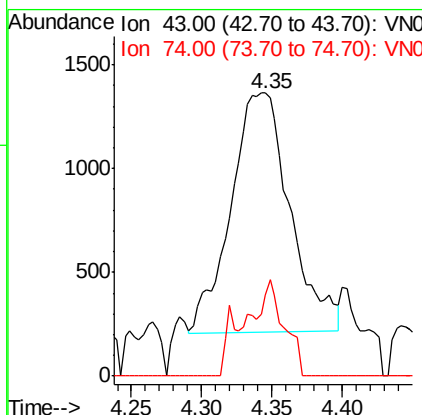
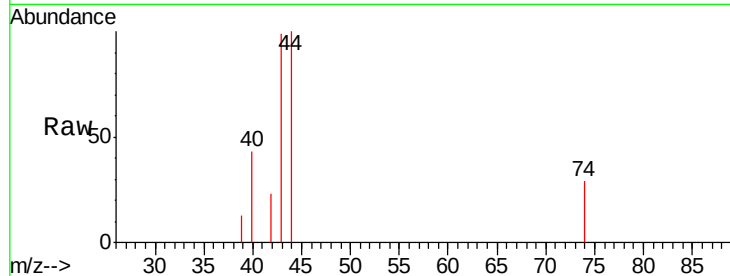




#18
Methyl Acetate
Concen: 0.70 ug/l
RT: 4.35 min Scan# 800
Delta R.T. 0.02 min
Lab File: VN051808.D
Acq: 11 Oct 2018 10:57

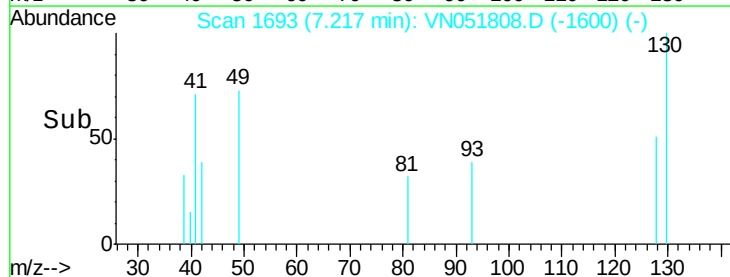
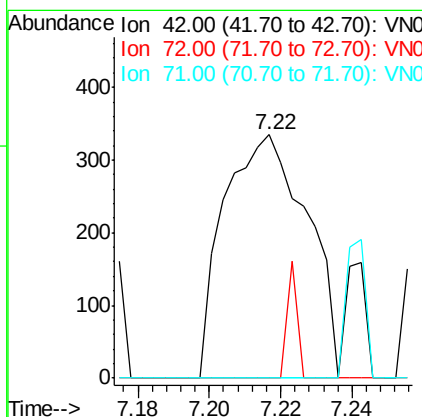
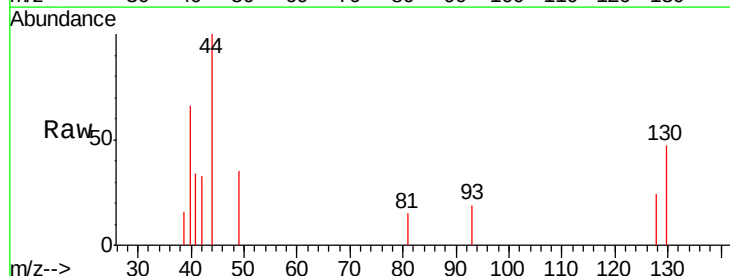
Instrument :
MSVOA_N
ClientSampled :
I.BLK

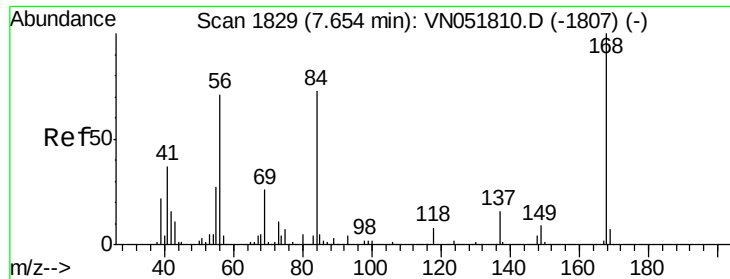
Tgt Ion: 43 Resp: 3395
Ion Ratio Lower Upper
43 100
74 21.3 19.8 29.8



#29
Tetrahydrofuran
Concen: 0.37 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN051808.D
Acq: 11 Oct 2018 10:57

Tgt Ion: 42 Resp: 539
Ion Ratio Lower Upper
42 100
72 5.8 35.5 53.3#
71 0.0 33.7 50.5#

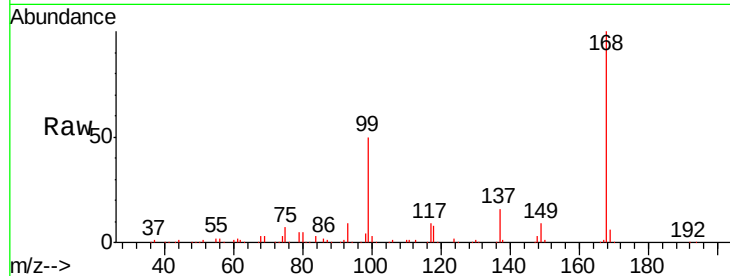




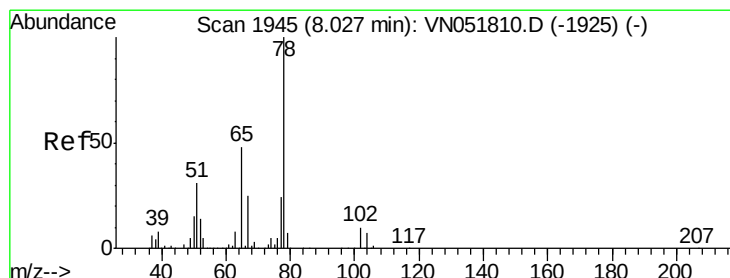
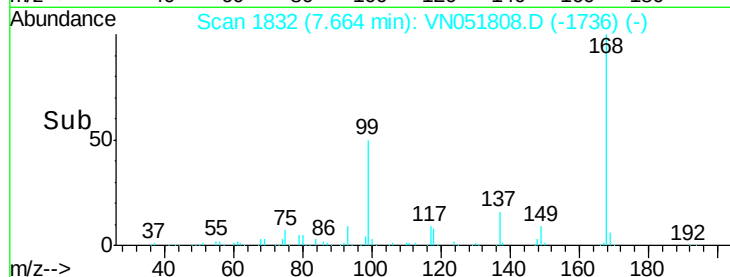
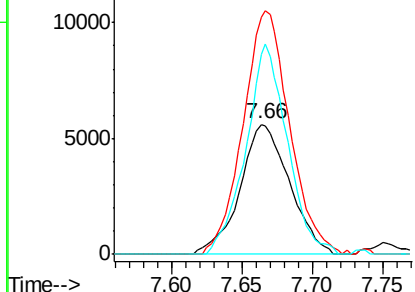
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051808.D
Acq: 11 Oct 2018 10:57

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tgt Ion: 56 Resp: 13735
Ion Ratio Lower Upper
56 100
69 183.1 26.2 39.4#
84 154.4 68.3 102.5#

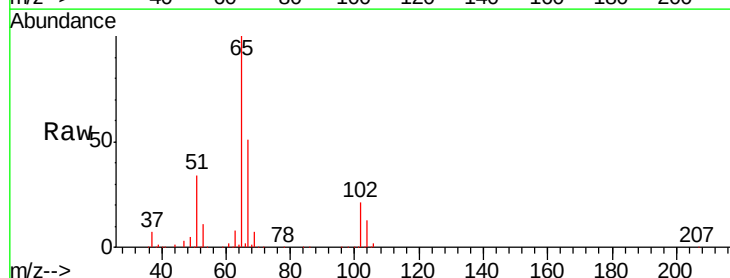


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

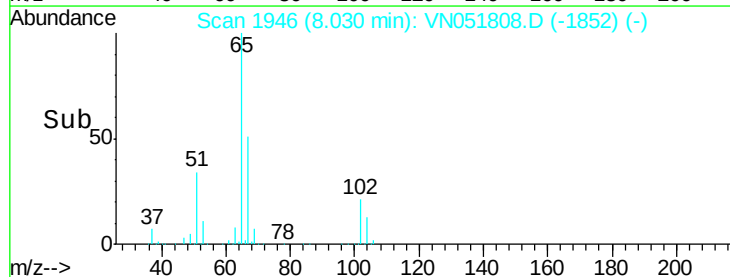
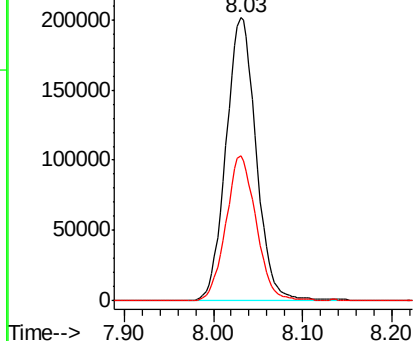


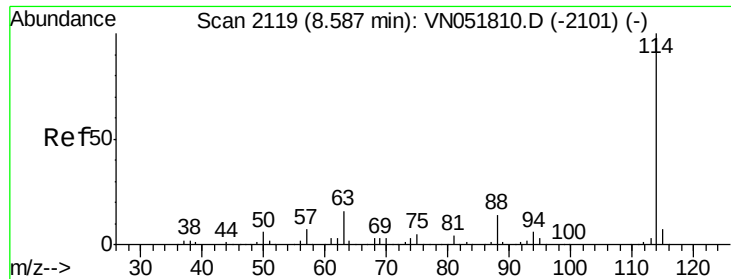
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051808.D
Acq: 11 Oct 2018 10:57

Tgt Ion: 65 Resp: 472008
Ion Ratio Lower Upper
65 100
67 51.4 0.0 110.4



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

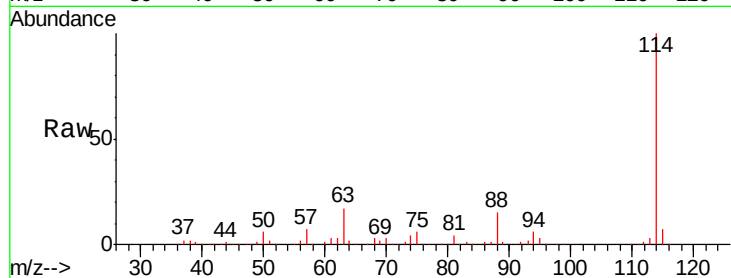




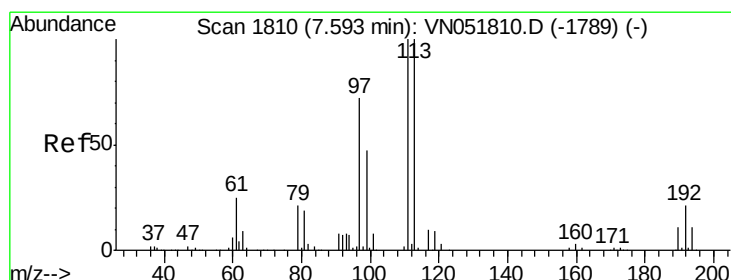
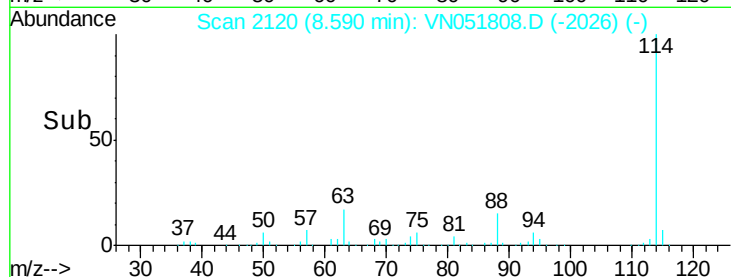
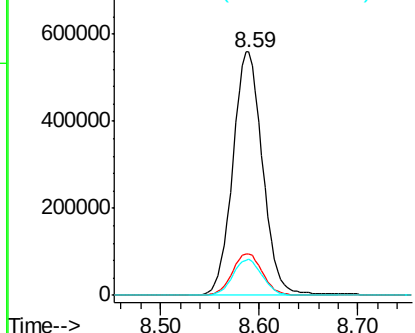
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051808.D
 Acq: 11 Oct 2018 10:57

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion:114 Resp: 1178699
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 38.6
 88 14.7 0.0 30.6

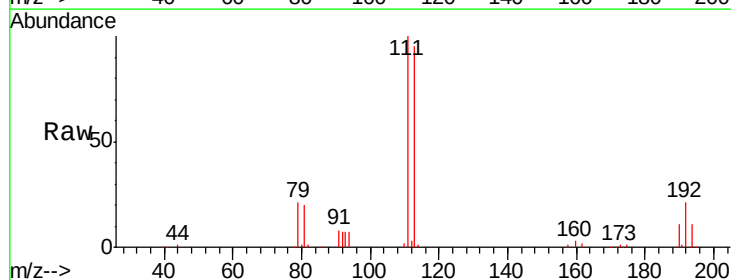


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

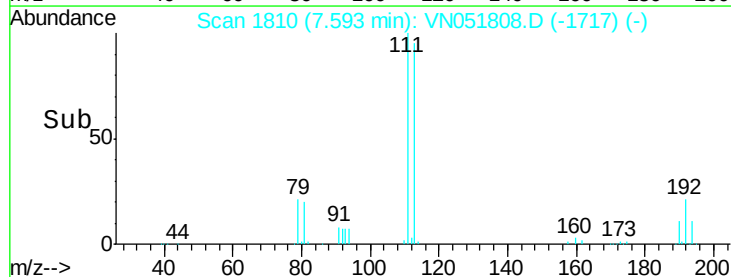
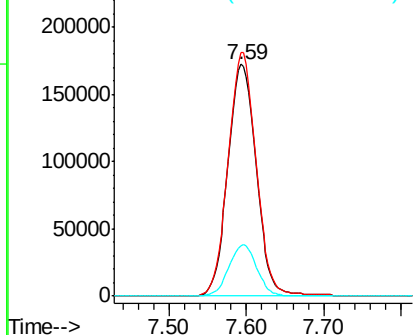


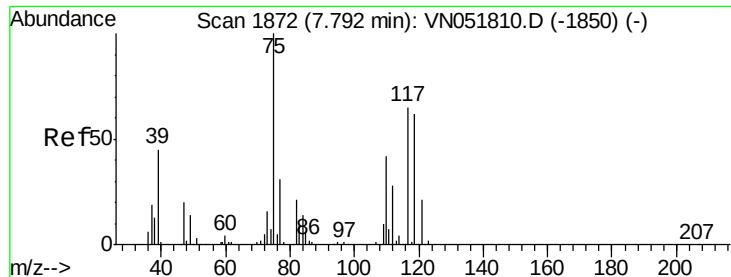
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051808.D
 Acq: 11 Oct 2018 10:57

Tgt Ion:113 Resp: 440990
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.6 123.8
 192 21.7 18.0 27.0



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

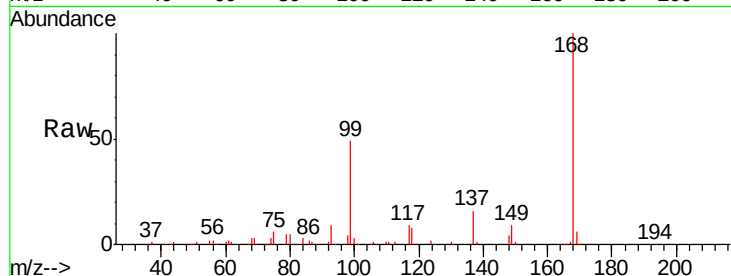




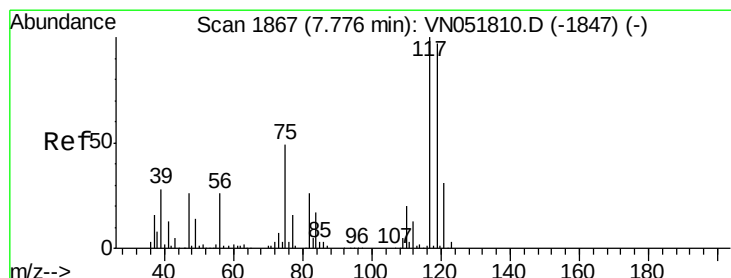
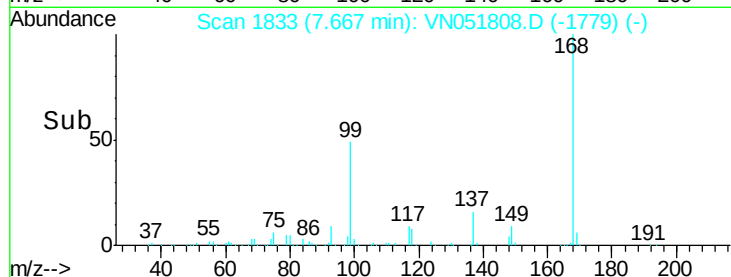
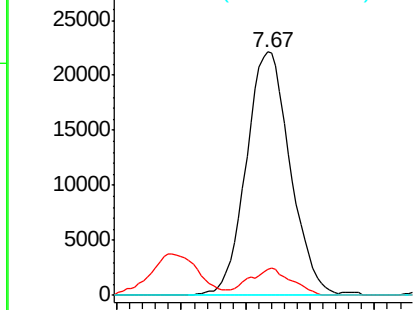
#36
 1,1-Dichloropropene
 Concen: 5.51 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051808.D
 Acq: 11 Oct 2018 10:57

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion: 75 Resp: 52585
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.4#
 77 0.0 24.8 37.2#

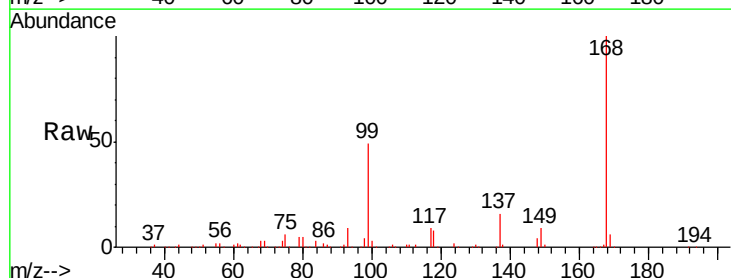


Abundance Ion 74.90 (74.60 to 75.60): VN051810.D (-1850) (-)
 Ion 109.90 (109.60 to 110.60): VN051810.D (-1850) (-)
 Ion 76.90 (76.60 to 77.60): VN051810.D (-1850) (-)

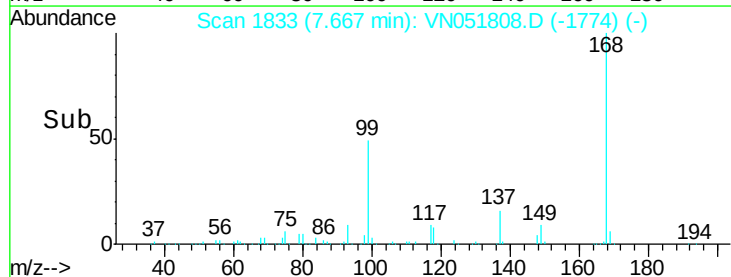
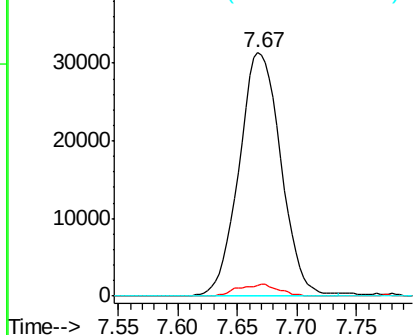


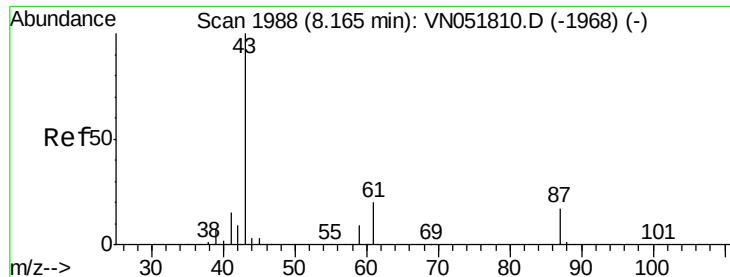
#38
 Carbon Tetrachloride
 Concen: 6.90 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051808.D
 Acq: 11 Oct 2018 10:57

Tgt Ion: 117 Resp: 76311
 Ion Ratio Lower Upper
 117 100
 119 4.1 76.3 114.5#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN051810.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN051810.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN051810.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 1.10 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.05 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampled :

I.BLK

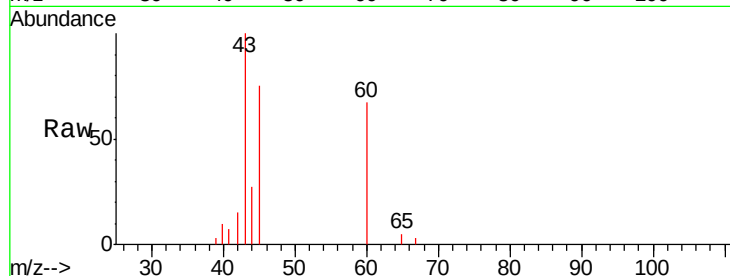
Tgt Ion: 43 Resp: 10912

Ion Ratio Lower Upper

43 100

61 0.0 17.5 26.3#

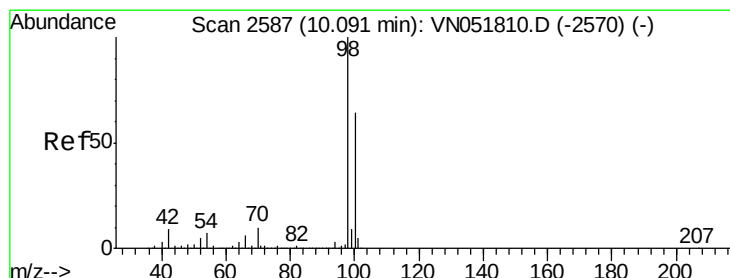
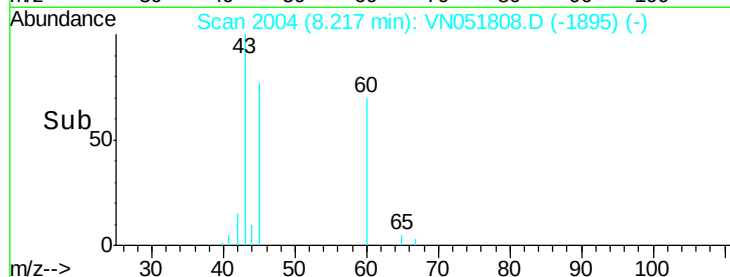
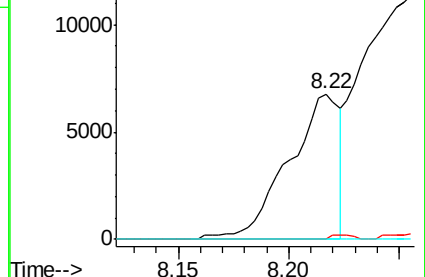
87 0.0 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN051810.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN051810.D (-1968) (-)



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051808.D

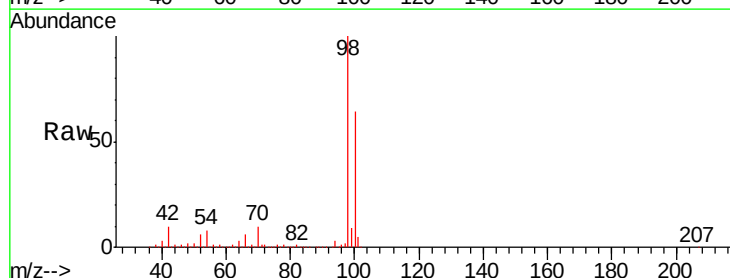
Acq: 11 Oct 2018 10:57

Tgt Ion: 98 Resp: 1673352

Ion Ratio Lower Upper

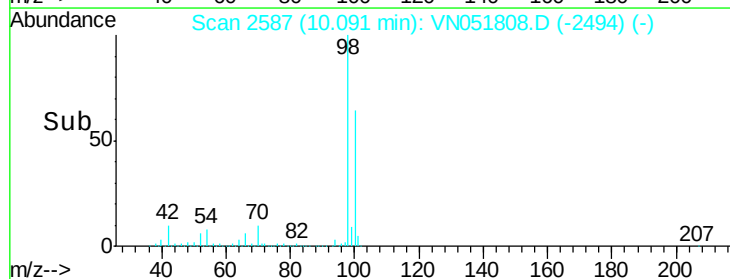
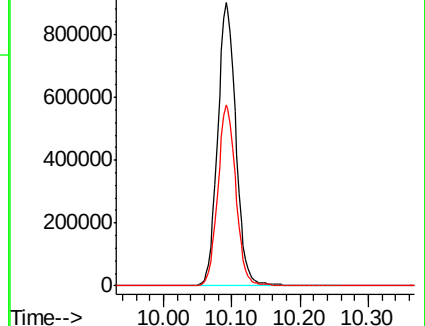
98 100

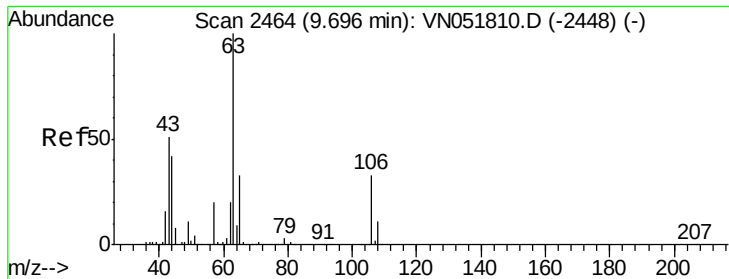
100 63.1 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051810.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051810.D (-2570) (-)





#58

2-Chloroethyl Vinyl ether

Concen: 0.46 ug/l

RT: 9.70 min Scan# 2466

Delta R.T. 0.01 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampled :

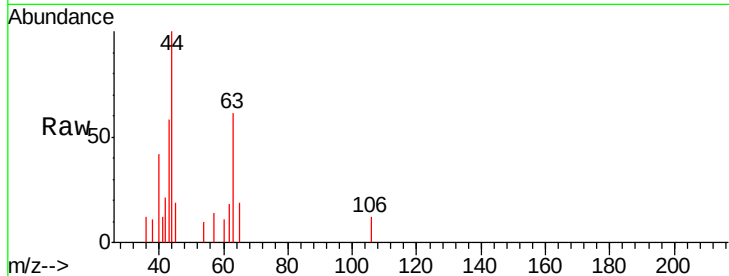
I.BLK

Tgt Ion: 63 Resp: 1645

Ion Ratio Lower Upper

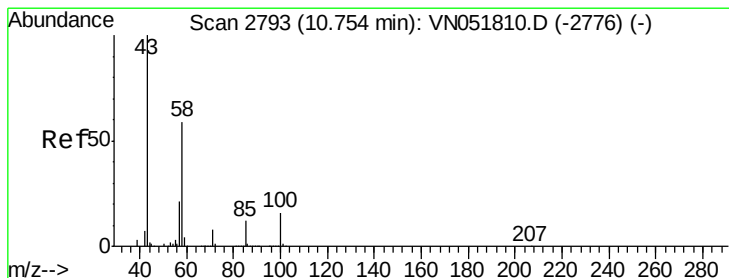
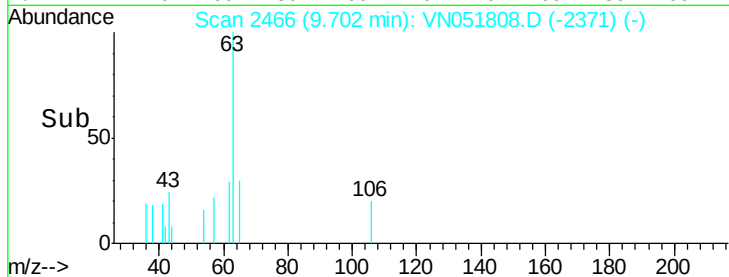
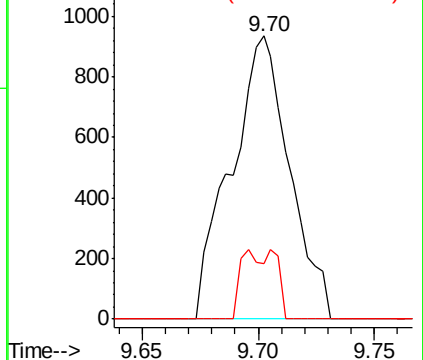
63 100

106 9.4 21.9 32.9#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN0



#59

2-Hexanone

Concen: 0.33 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051808.D

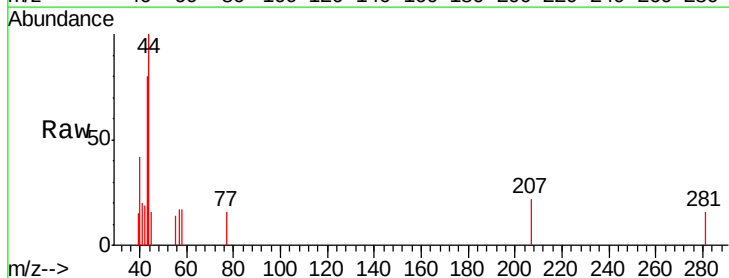
Acq: 11 Oct 2018 10:57

Tgt Ion: 43 Resp: 1161

Ion Ratio Lower Upper

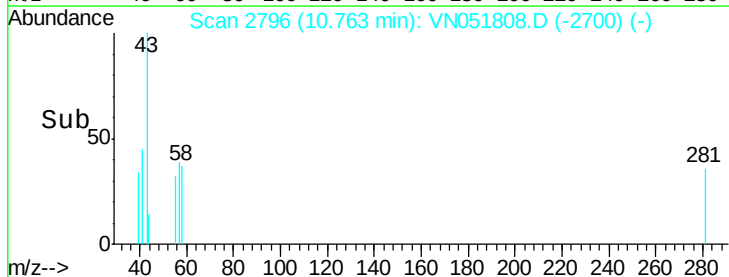
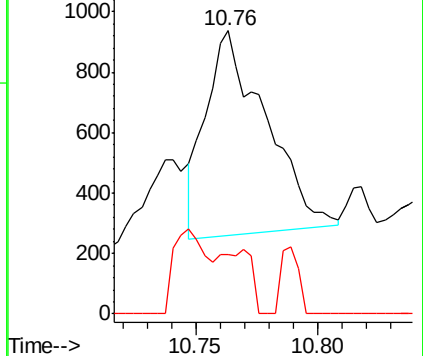
43 100

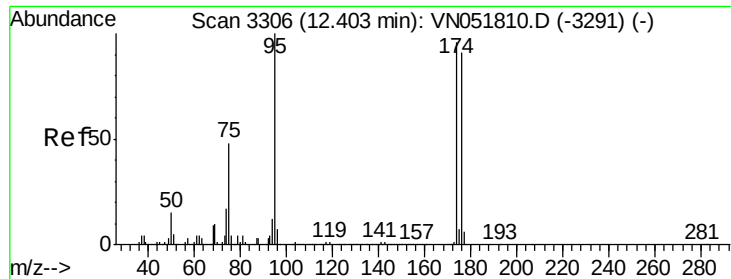
58 0.0 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

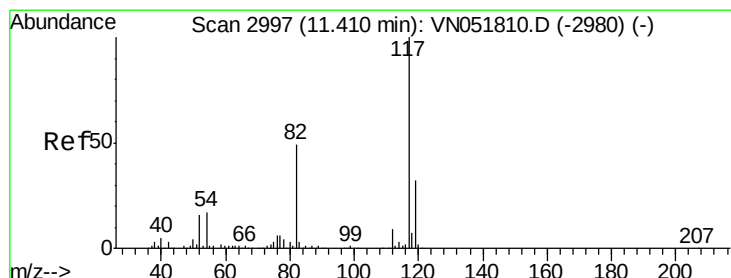
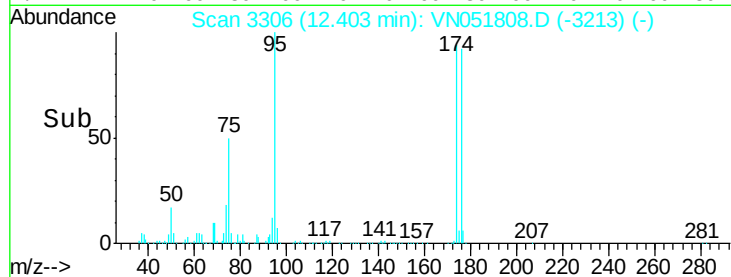
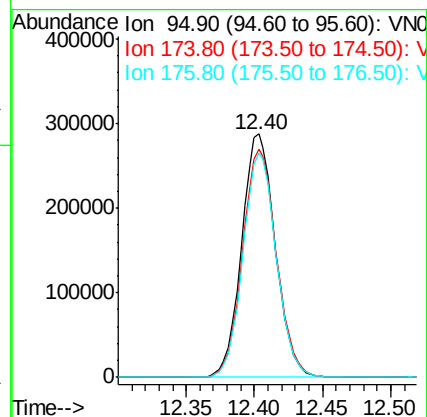
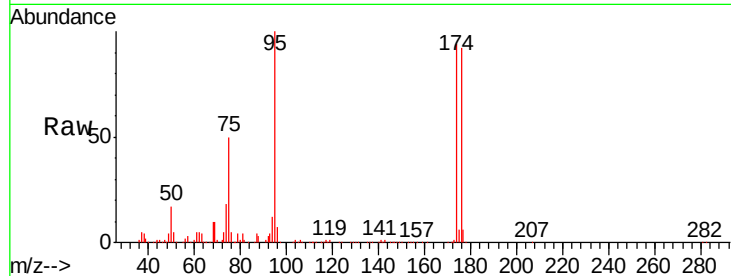
Tgt Ion: 95 Resp: 491824

Ion Ratio Lower Upper

95 100

174 94.3 0.0 183.0

176 91.4 0.0 178.8



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

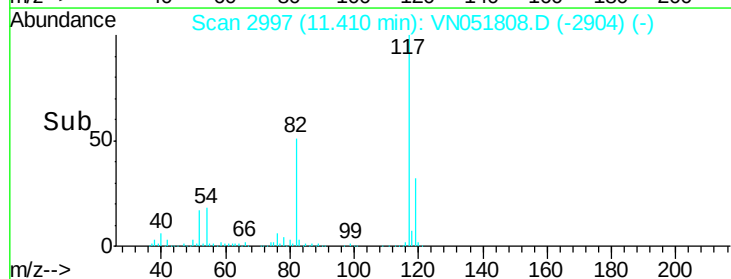
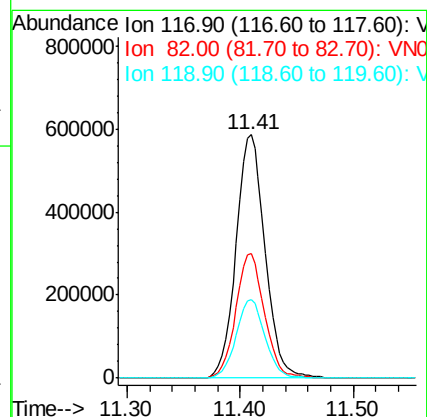
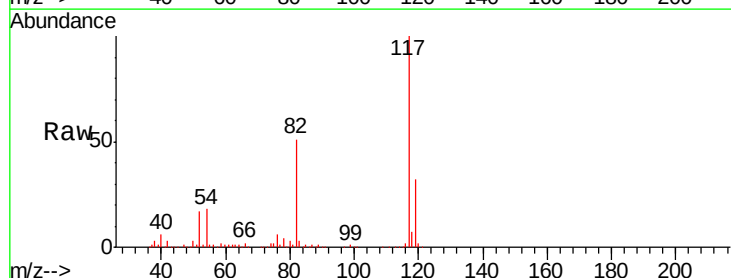
Tgt Ion: 117 Resp: 1042443

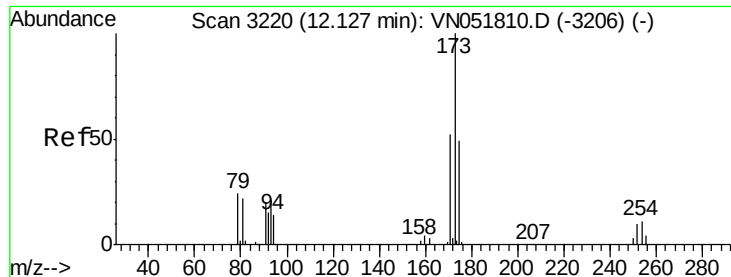
Ion Ratio Lower Upper

117 100

82 51.0 42.6 64.0

119 32.3 25.8 38.6





#71

Bromoform

Concen: 4.10 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

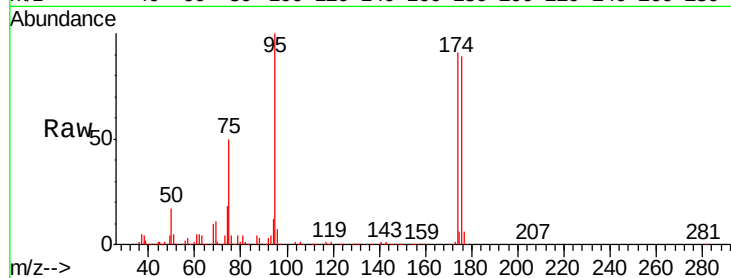
Tgt Ion:173 Resp: 3547

Ion Ratio Lower Upper

173 100

175 765.8 24.4 73.4#

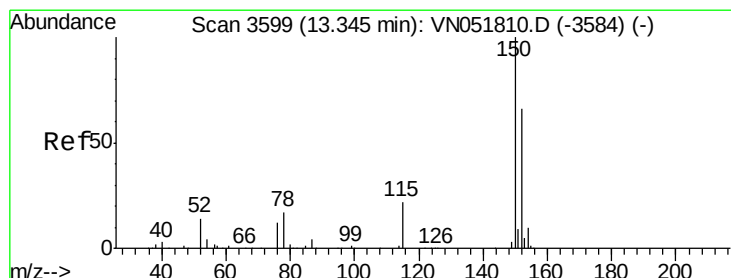
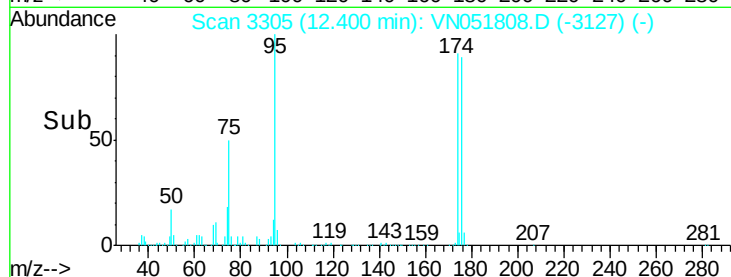
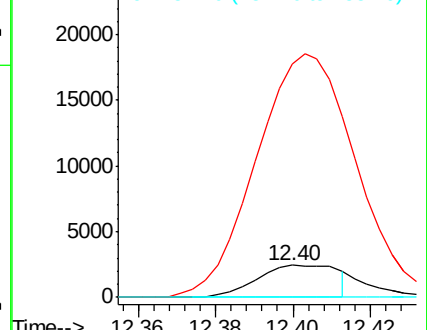
254 0.0 0.1 0.1#



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: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

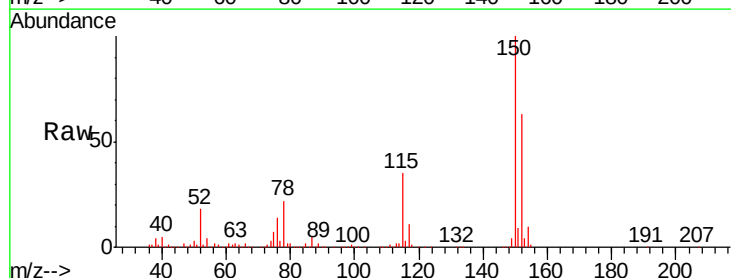
Tgt Ion:152 Resp: 401546

Ion Ratio Lower Upper

152 100

115 54.2 27.8 83.4

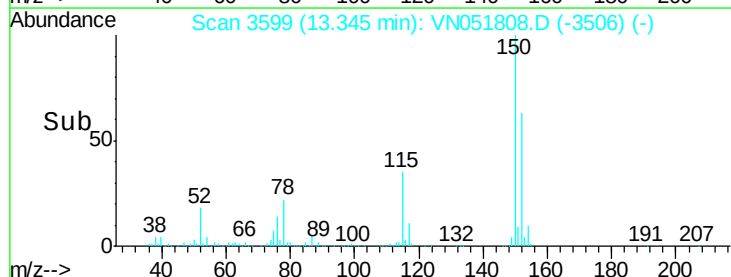
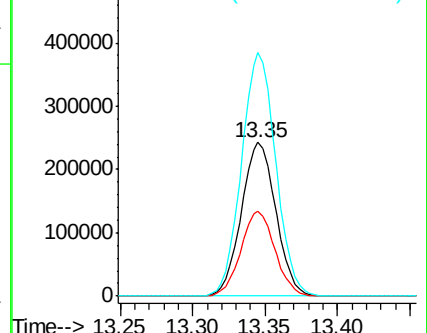
150 156.9 0.0 351.4

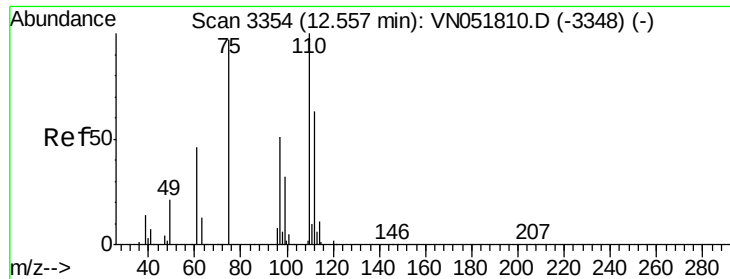


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 49.96 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampleId :

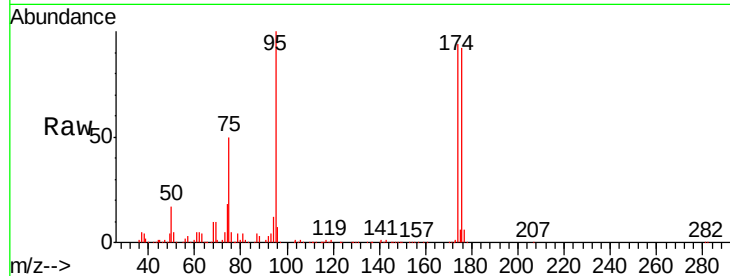
I.BLK

Tgt Ion: 75 Resp: 247513

Ion Ratio Lower Upper

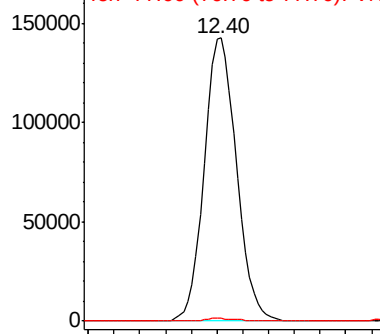
75 100

77 0.9 0.0 0.0#

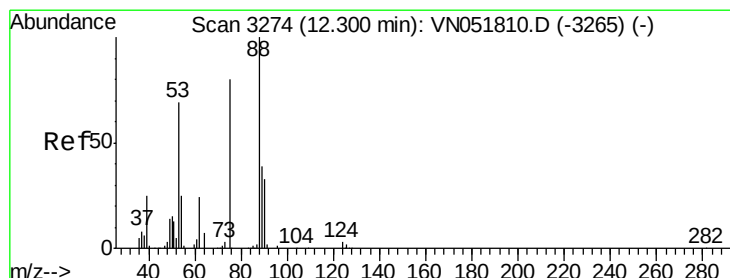
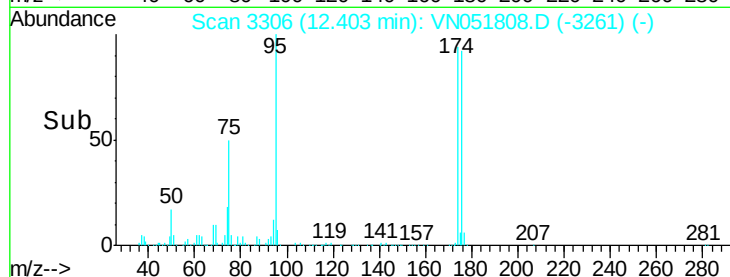


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 141.94 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

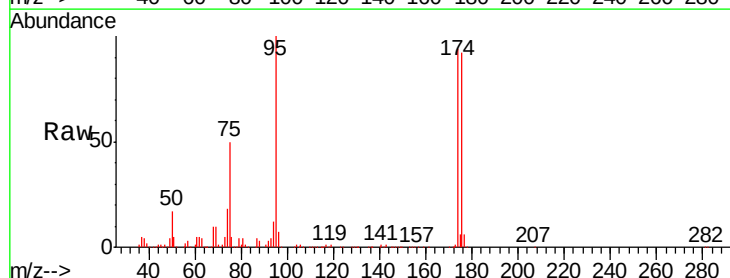
Tgt Ion: 75 Resp: 247513

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

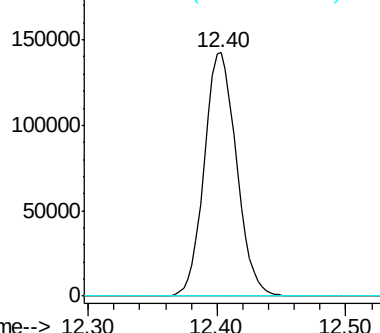
89 0.0 36.1 54.1#



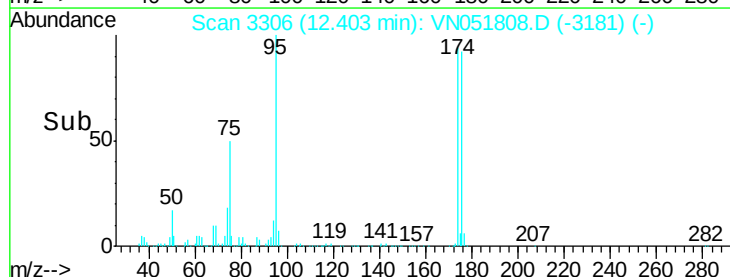
Abundance Ion 74.90 (74.60 to 75.60): VN0

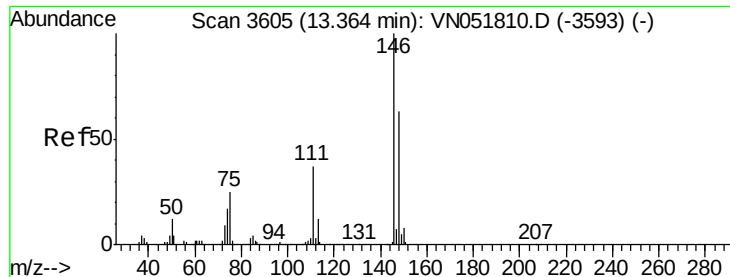
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50





#88

1,4-Dichlorobenzene

Concen: 0.20 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampled :

I.BLK

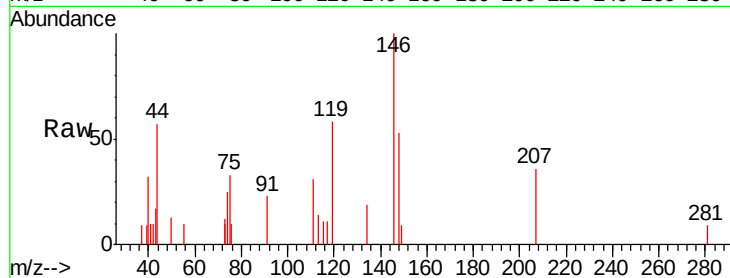
Tgt Ion:146 Resp: 2573

Ion Ratio Lower Upper

146 100

111 34.4 18.8 56.3

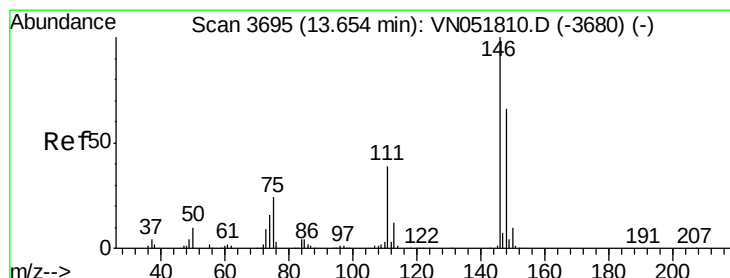
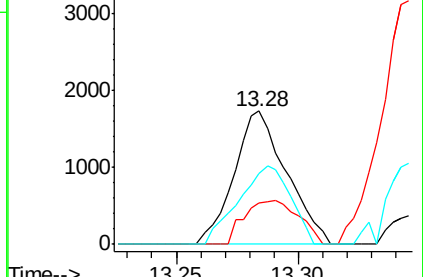
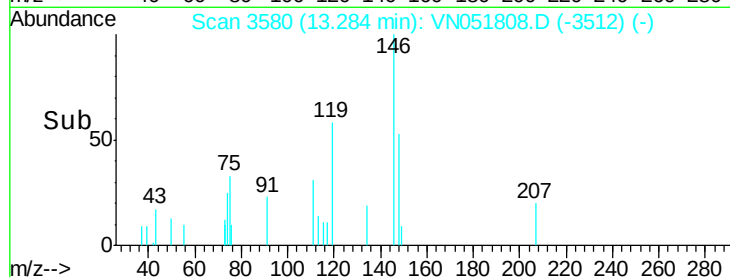
148 58.7 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.21 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

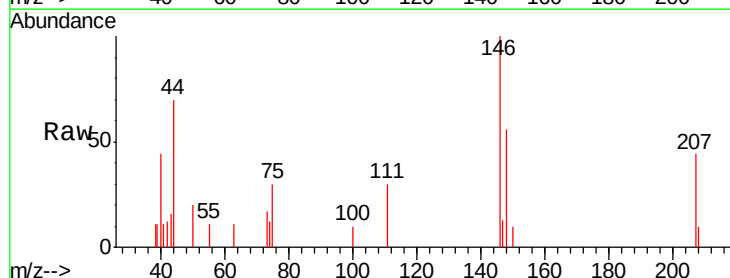
Tgt Ion:146 Resp: 2647

Ion Ratio Lower Upper

146 100

111 29.1 19.8 59.3

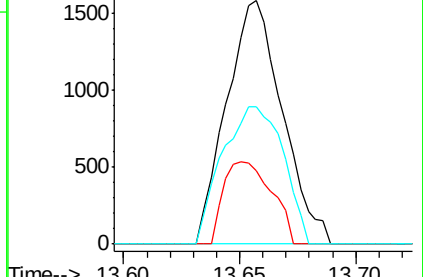
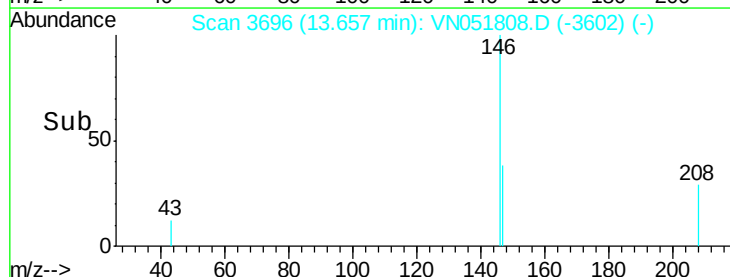
148 61.6 32.3 96.8

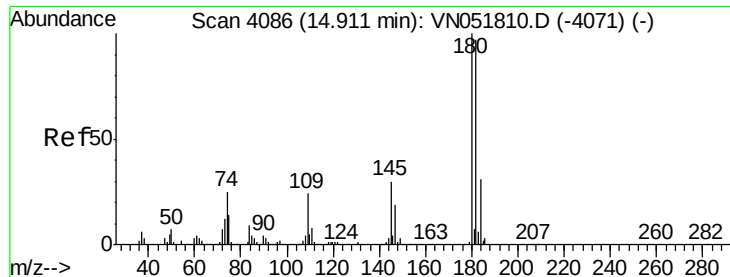


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

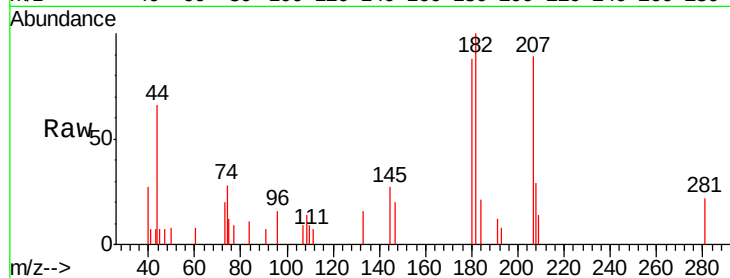




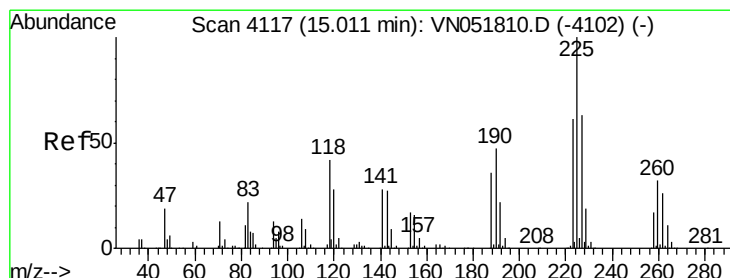
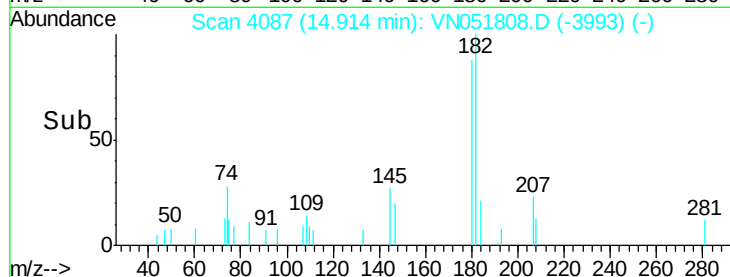
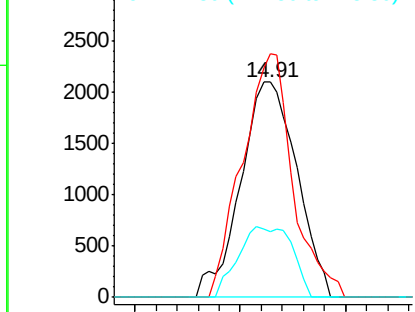
#93
 1,2,4-Trichlorobenzene
 Concen: 4.19 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN051808.D
 Acq: 11 Oct 2018 10:57

Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

Tgt Ion:180 Resp: 3894
 Ion Ratio Lower Upper
 180 100
 182 101.6 48.2 144.6
 145 31.4 14.1 42.2

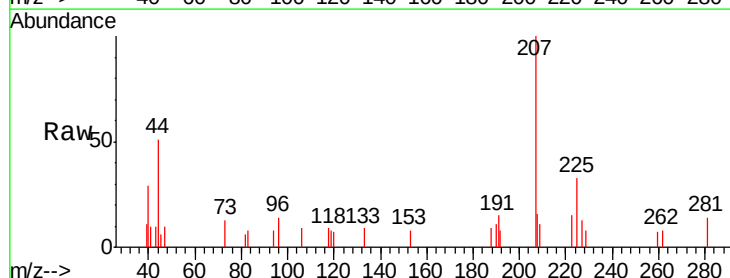


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

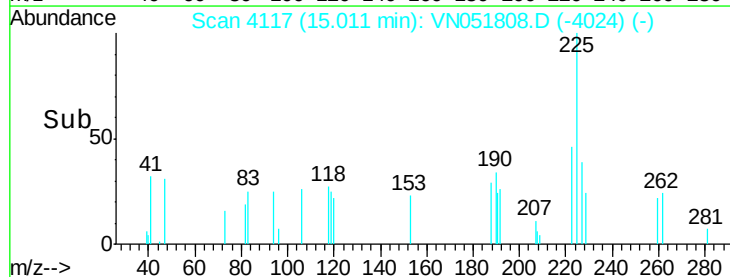
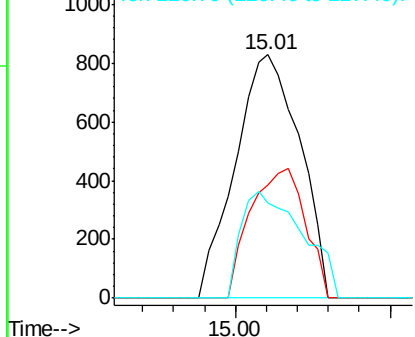


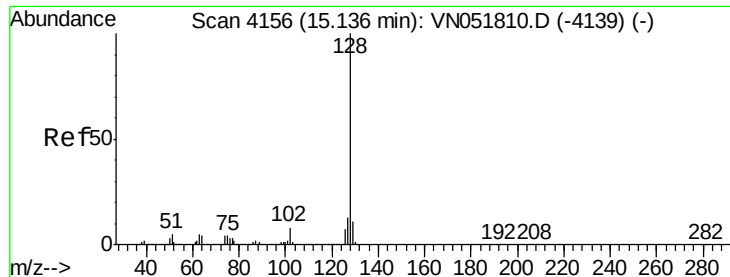
#94
 Hexachlorobutadiene
 Concen: 0.29 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051808.D
 Acq: 11 Oct 2018 10:57

Tgt Ion:225 Resp: 1198
 Ion Ratio Lower Upper
 225 100
 223 45.2 31.3 93.8
 227 41.7 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.07 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

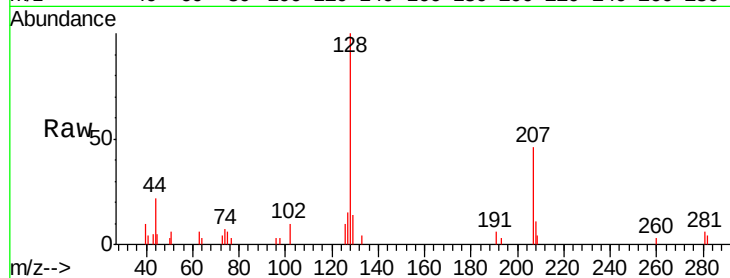
Tgt Ion:128 Resp: 10883

Ion Ratio Lower Upper

128 100

127 12.4 10.5 15.7

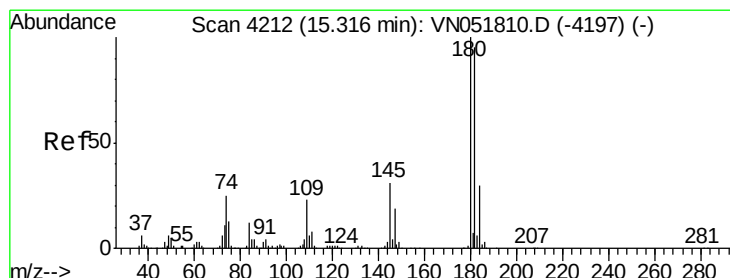
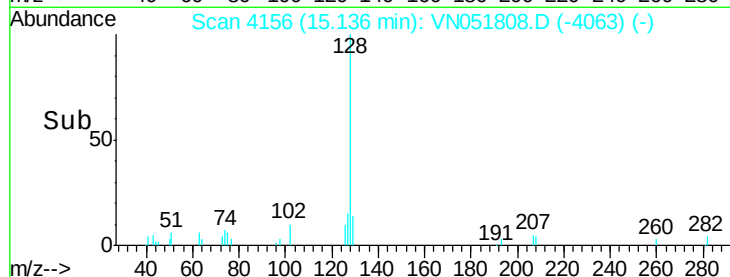
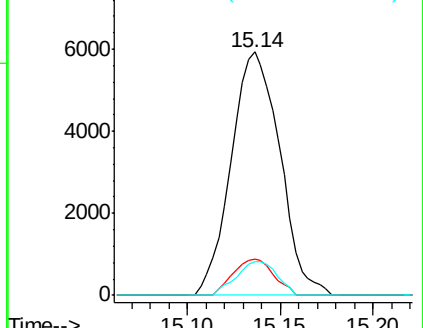
129 11.5 8.7 13.1



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: 3.46 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051808.D

Acq: 11 Oct 2018 10:57

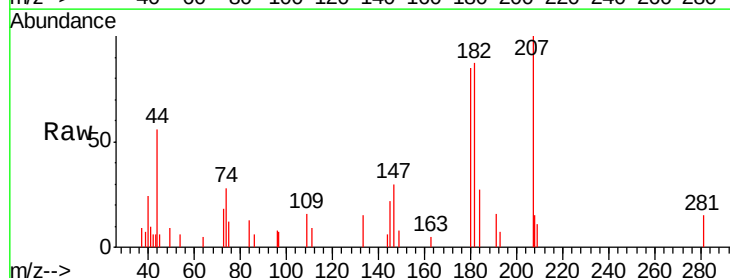
Tgt Ion:180 Resp: 4179

Ion Ratio Lower Upper

180 100

182 97.6 48.0 144.2

145 29.4 15.2 45.6



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

