

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054802.D
 Acq On : 30 Mar 2019 15:06
 Operator : JC/SP
 Sample : K2181-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Quant Time: Mar 30 22:40:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	537248	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	880553	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	730446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	255988	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	359213	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	7.59	113	279635	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	10.09	98	1037095	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
62) 4-Bromofluorobenzene	12.40	95	314174	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	

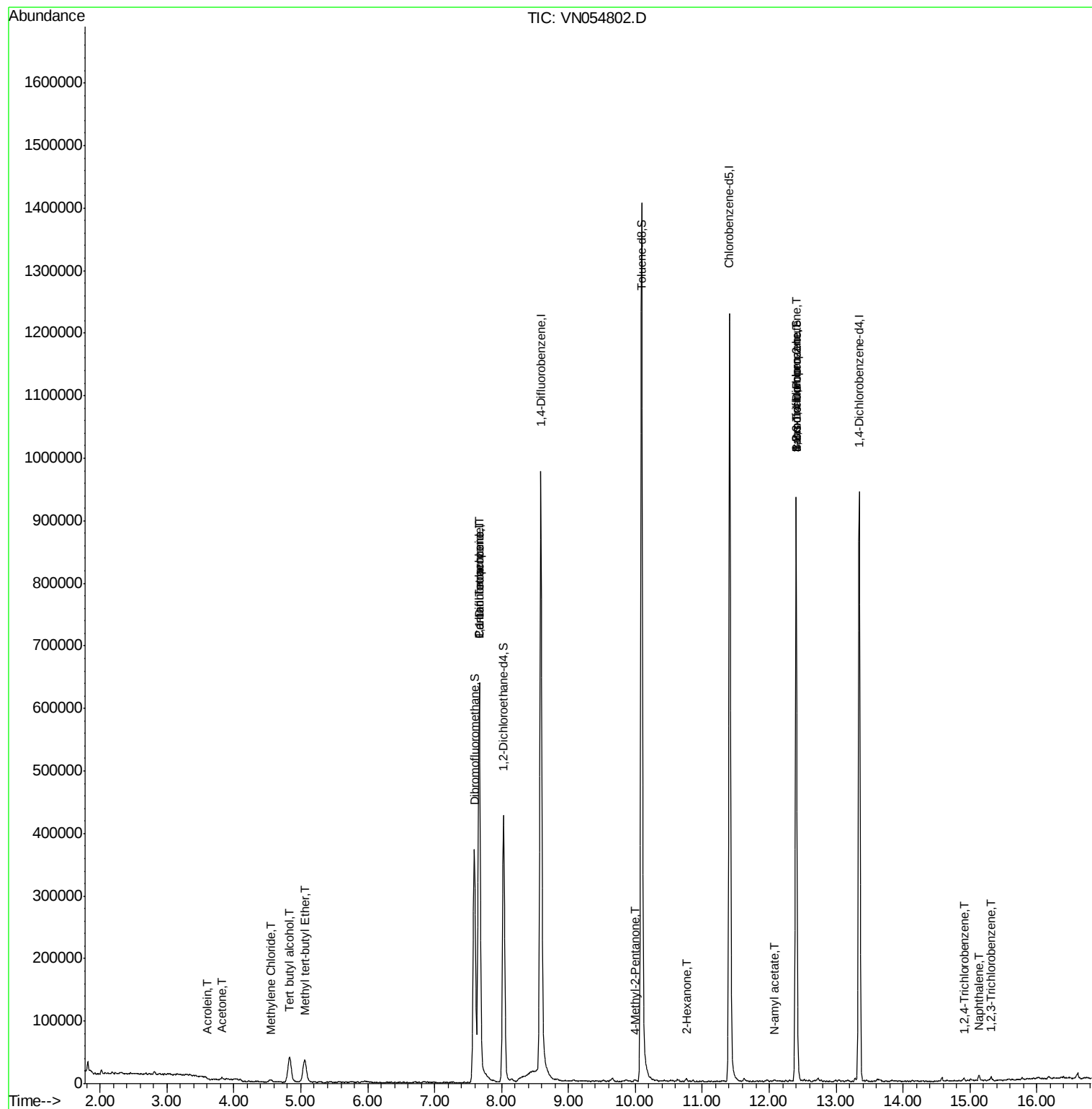
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	488	Below Cal	#	2
11) Tert butyl alcohol	4.83	59	66665	176.674	ug/l	96
13) Acrolein	3.60	56	219	0.649	ug/l #	70
16) Acetone	3.83	43	5100	2.953	ug/l #	84
18) Methyl Acetate	4.33	43	395	Below Cal	#	49
19) Methyl tert-butyl Ether	5.06	73	57042	3.861	ug/l	96
20) Methylene Chloride	4.55	84	1337	0.219	ug/l #	69
31) Cyclohexane	7.67	56	11874	Below Cal	#	22
36) 1,1-Dichloropropene	7.67	75	41524	5.061	ug/l #	42
38) Carbon Tetrachloride	7.67	117	51295	6.437	ug/l #	16
51) 4-Methyl-2-Pentanone	10.00	43	2424	0.441	ug/l	99
59) 2-Hexanone	10.76	43	3505	0.996	ug/l	74
71) Bromoform	12.41	173	3215	1.025	ug/l #	1
74) N-amyl acetate	12.08	43	1698	0.260	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	360	Below Cal	#	90
76) 1,2,3-Trichloropropane	12.40	75	165350	37.181	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165350	144.627	ug/l #	11
83) tert-Butylbenzene	12.99	119	1277	Below Cal		90
93) 1,2,4-Trichlorobenzene	14.91	180	1681	0.409	ug/l	96
94) Hexachlorobutadiene	15.01	225	715	Below Cal	#	69
95) Naphthalene	15.13	128	7565	0.820	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	2328	0.560	ug/l	85

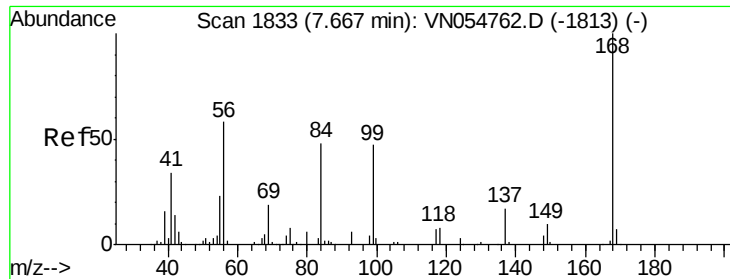
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampled :

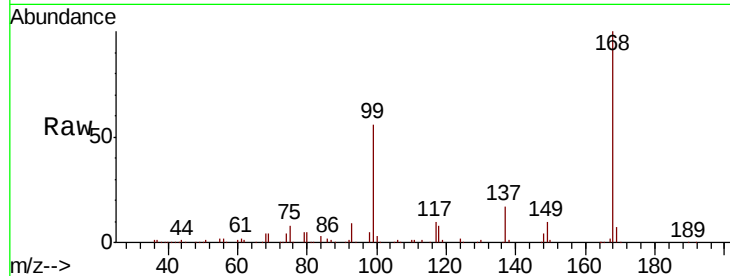
MW-1

Tot Ion:168 Resp: 537248

Ion Ratio Lower Upper

168 100

99 56.1 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054802.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054802.D (-1740) (-)

7.67

250000

200000

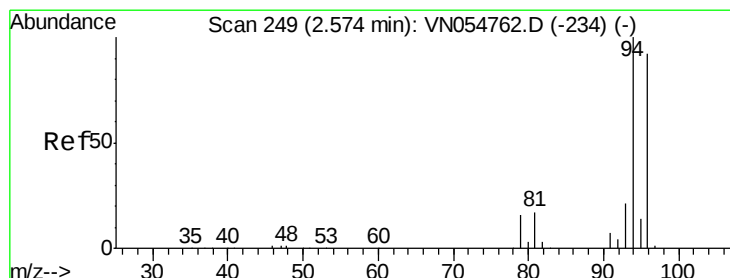
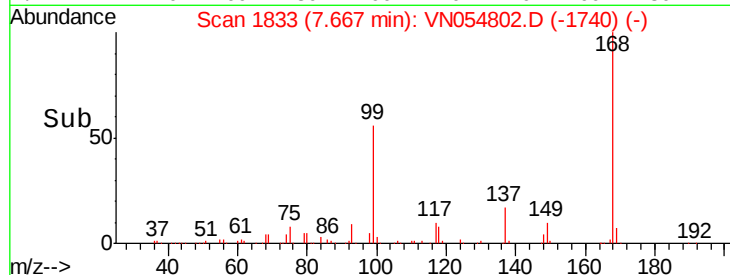
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054802.D

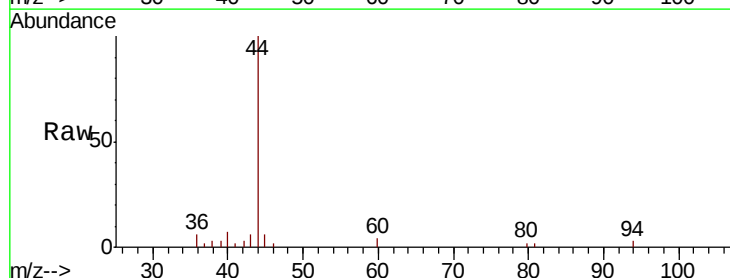
Acq: 30 Mar 2019 15:06

Tgt Ion: 94 Resp: 488

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054802.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054802.D (-156) (-)

2.57

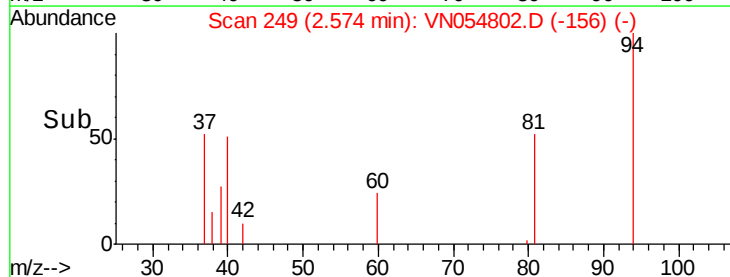
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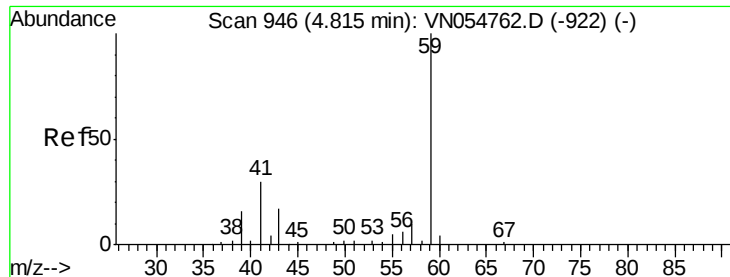
200

100

0

Time-->

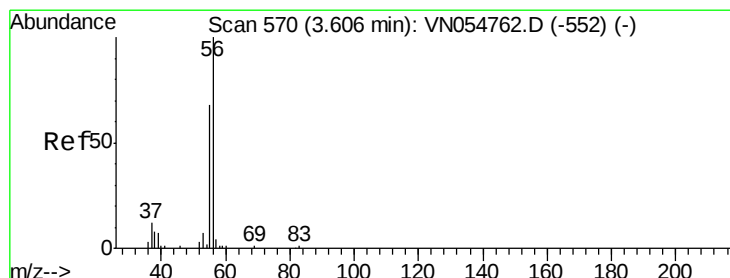
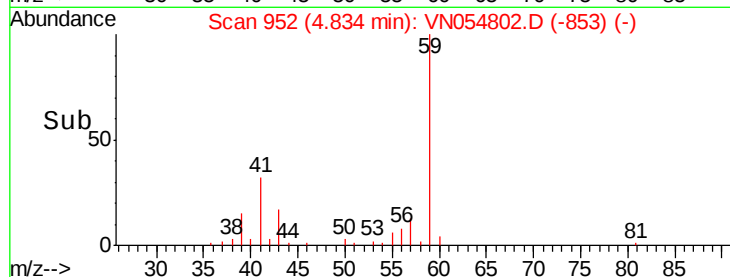
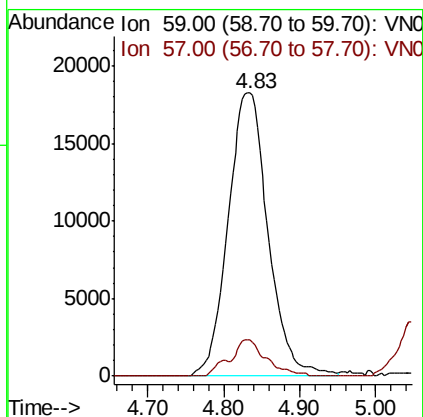
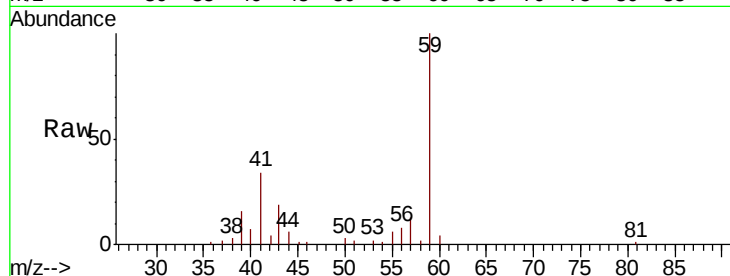




#11
Tert butyl alcohol
Concen: 176.674 ug/l
RT: 4.83 min Scan# 952
Delta R.T. 0.02 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

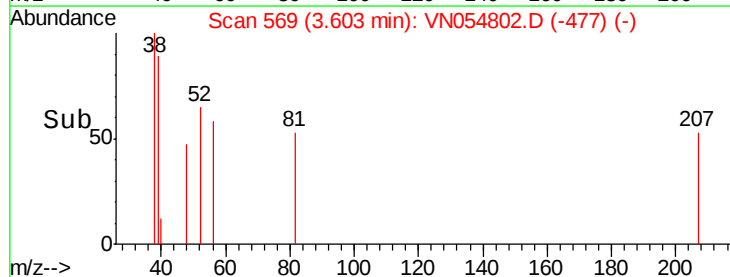
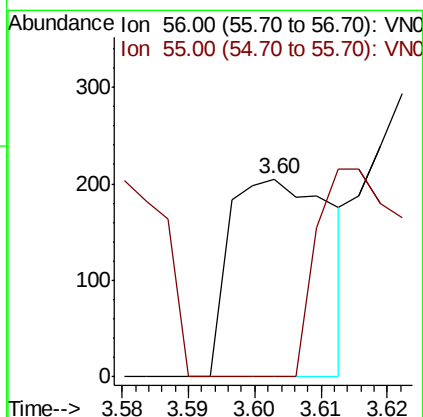
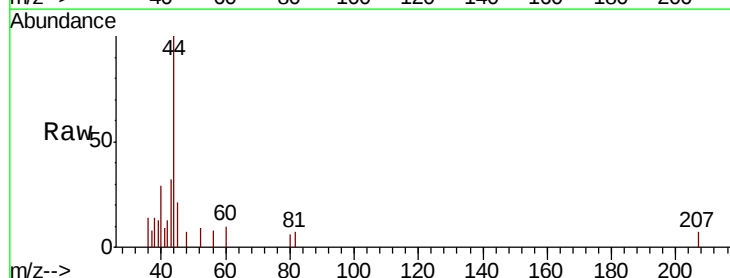
Instrument :
MSVOA_N
ClientSampled :
MW-1

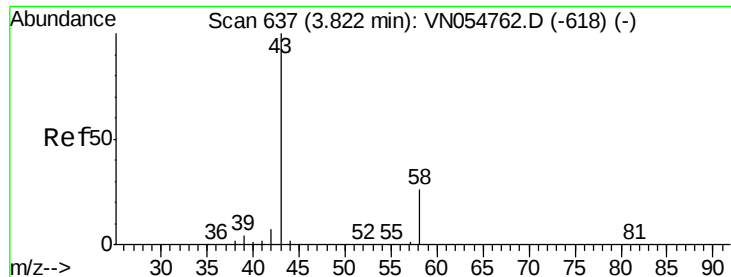
Tot Ion: 59 Resp: 66665
Ion Ratio Lower Upper
59 100
57 9.6 9.0 13.6



#13
Acrolein
Concen: 0.649 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Tgt Ion: 56 Resp: 219
Ion Ratio Lower Upper
56 100
55 95.4 56.7 85.1#





#16

Acetone

Concen: 2.953 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampled :

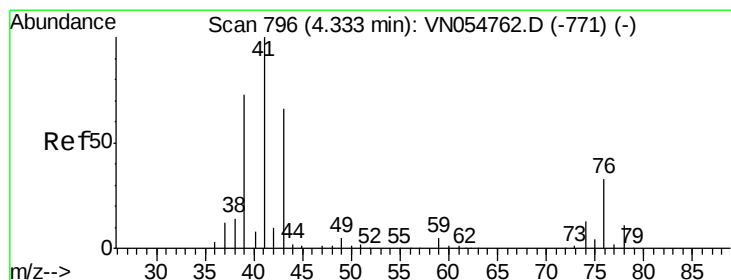
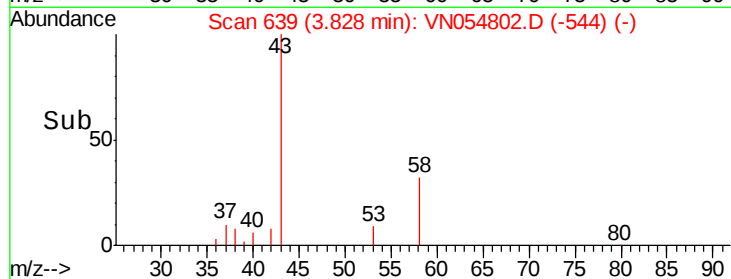
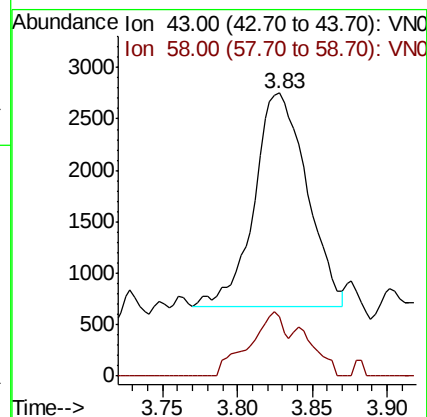
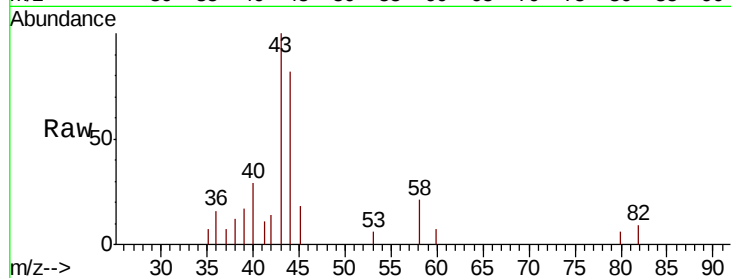
MW-1

Tot Ion: 43 Resp: 5100

Ion Ratio Lower Upper

43 100

58 27.6 29.9 44.9#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. -0.01 min

Lab File: VN054802.D

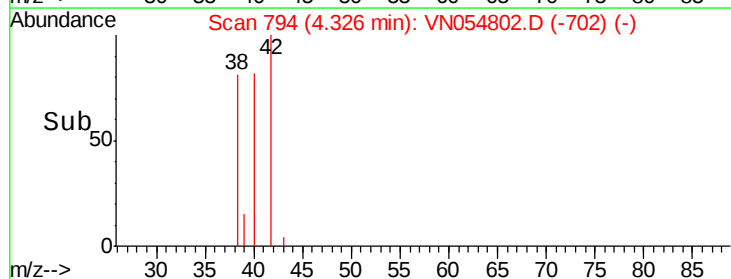
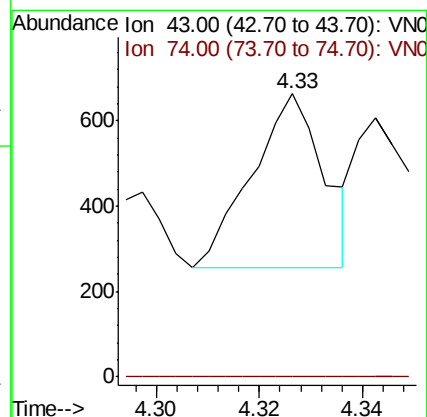
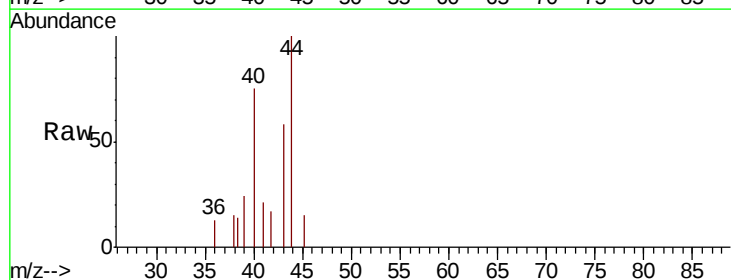
Acq: 30 Mar 2019 15:06

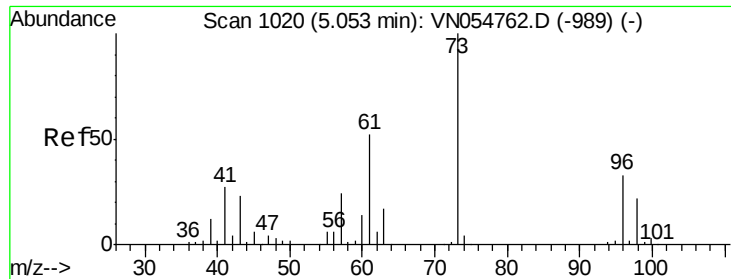
Tgt Ion: 43 Resp: 395

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#

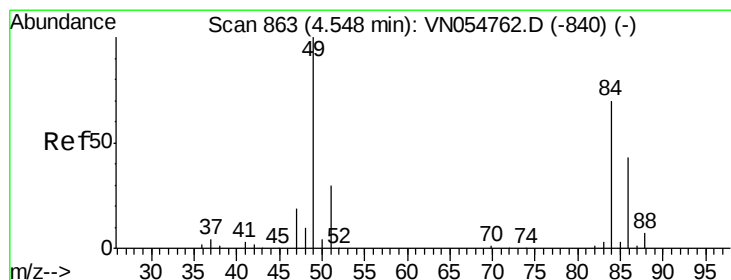
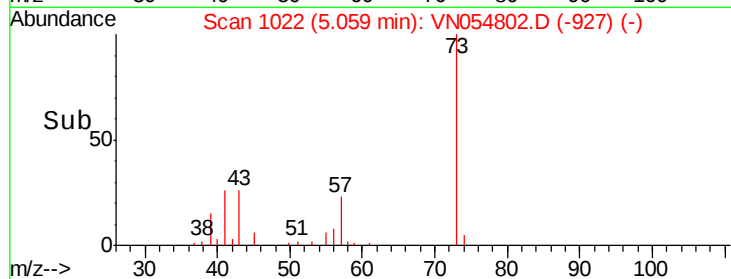
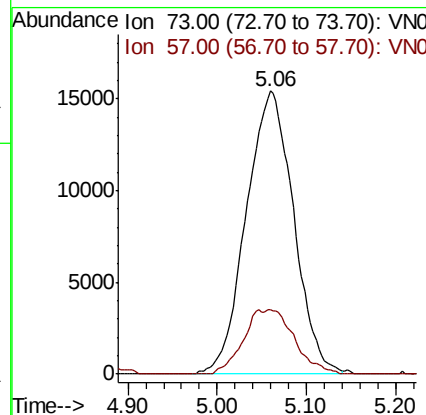
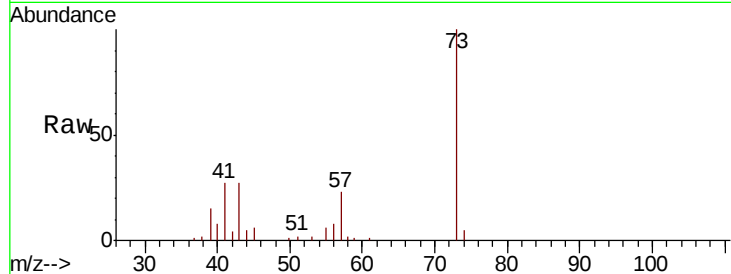




#19
Methvl tert-butvl Ether
Concen: 3.861 ug/l
RT: 5.06 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

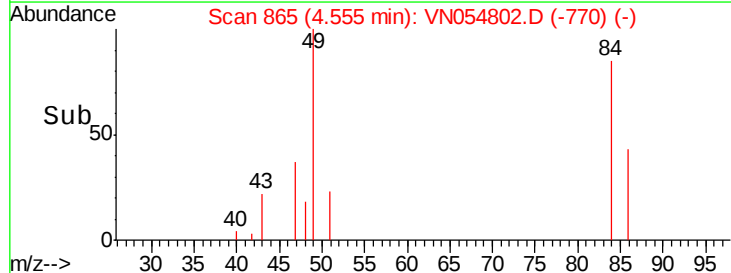
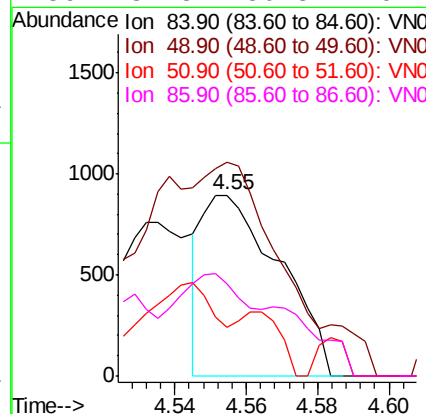
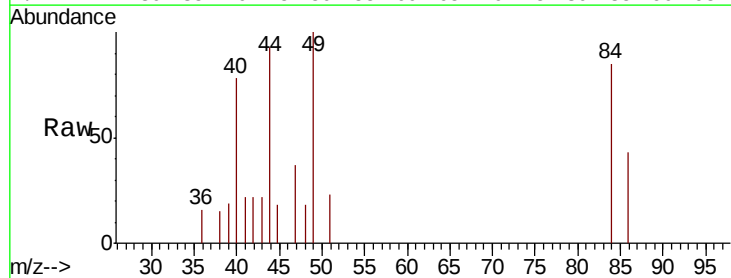
Instrument :
MSVOA_N
ClientSampled :
MW-1

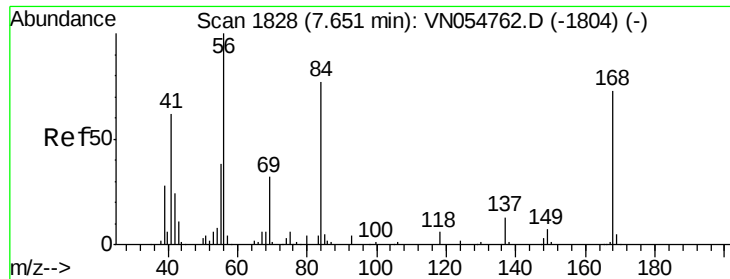
Tot Ion: 73 Resp: 57042
Ion Ratio Lower Upper
73 100
57 22.7 16.8 25.2



#20
Methylene Chloride
Concen: 0.219 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Tgt Ion: 84 Resp: 1337
Ion Ratio Lower Upper
84 100
49 90.8 89.7 134.5
51 7.8 28.2 42.4#
86 32.3 50.8 76.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampled :

MW-1

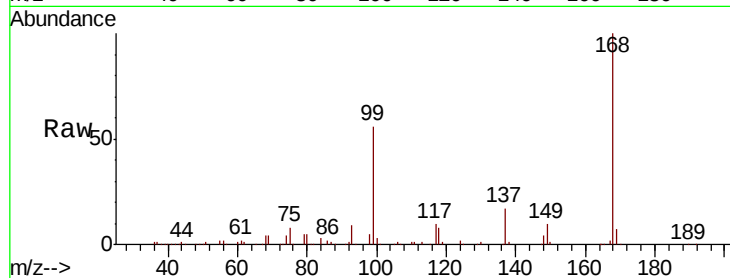
Tot Ion: 56 Resp: 11874

Ion Ratio Lower Upper

56 100

69 159.8 27.8 41.6#

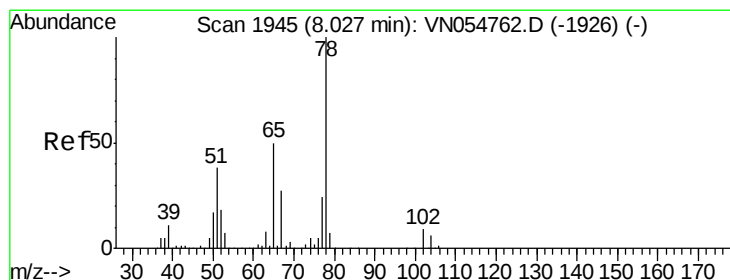
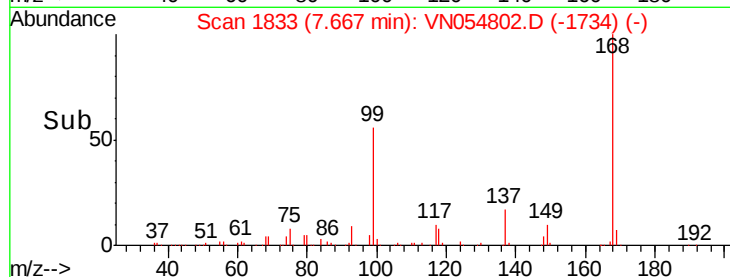
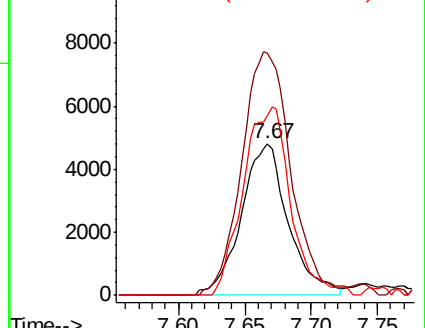
84 118.4 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN054802.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN054802.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN054802.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.600 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054802.D

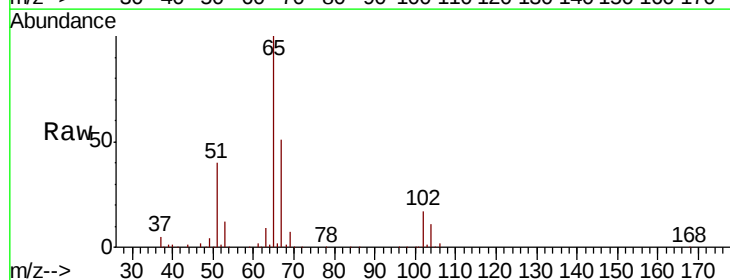
Acq: 30 Mar 2019 15:06

Tgt Ion: 65 Resp: 359213

Ion Ratio Lower Upper

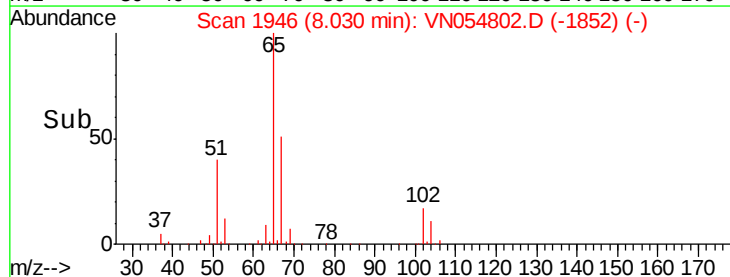
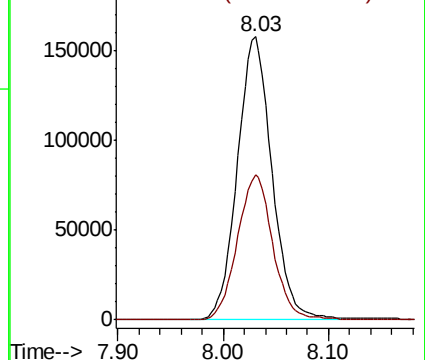
65 100

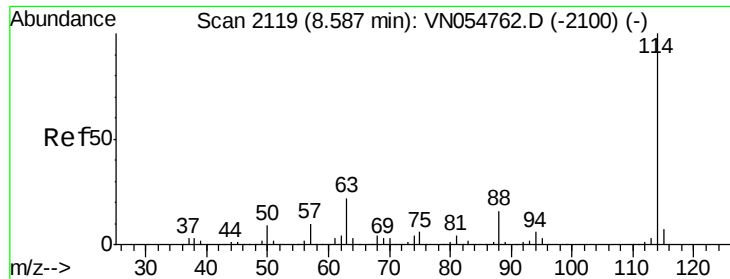
67 52.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN054802.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN054802.D (-1852) (-)

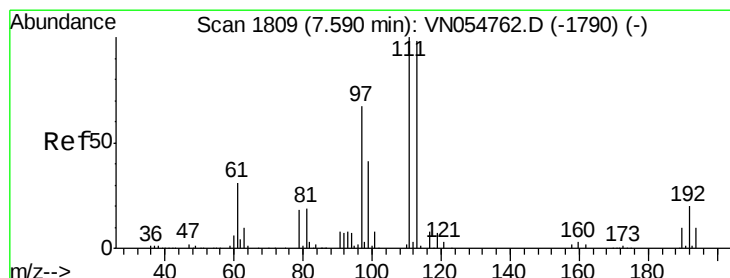
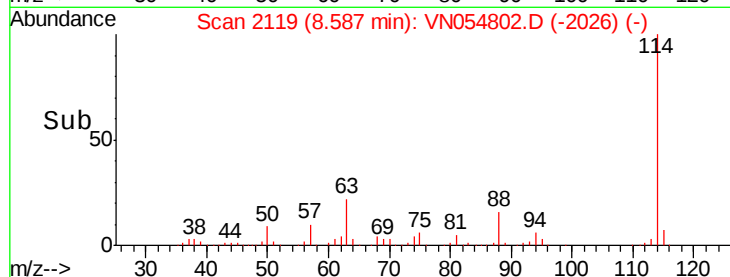
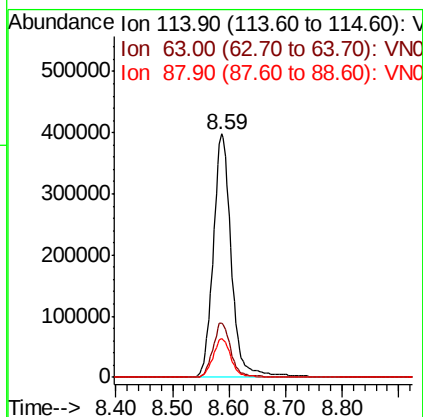
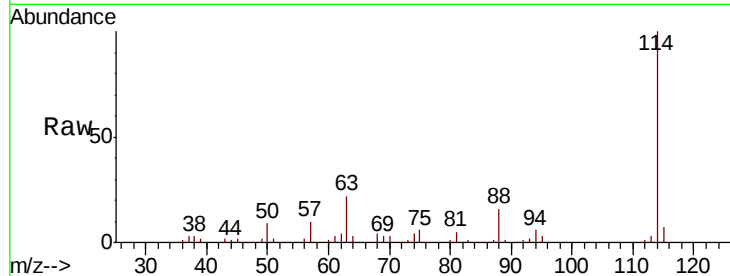




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054802.D
 Acq: 30 Mar 2019 15:06

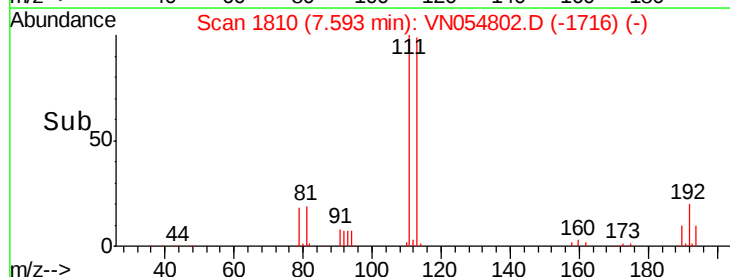
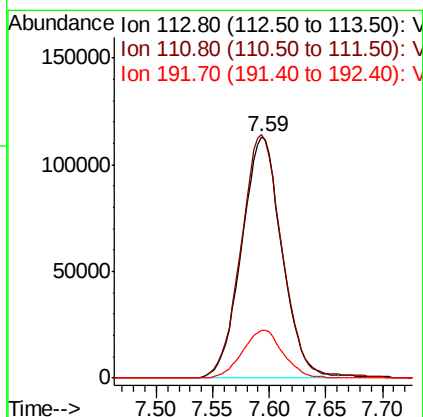
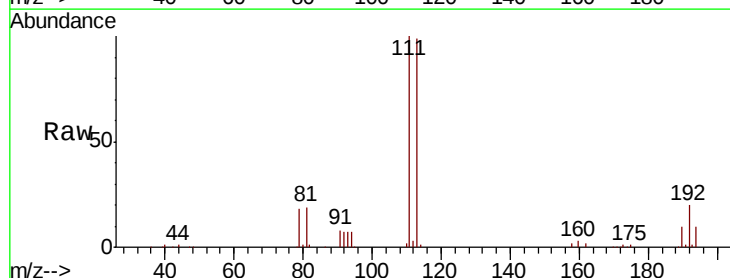
Instrument :
 MSVOA_N
 ClientSampled :
 MW-1

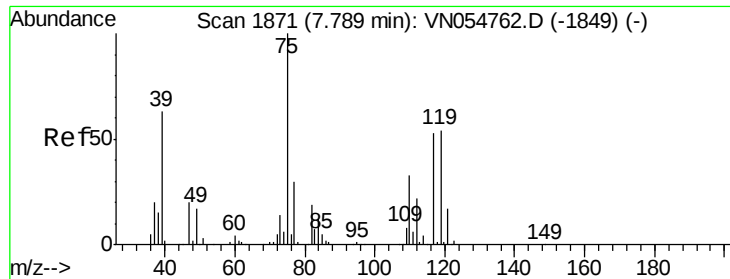
Tot Ion:114 Resp: 880553
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 35.2
 88 15.9 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 47.633 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054802.D
 Acq: 30 Mar 2019 15:06

Tgt Ion:113 Resp: 279635
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.4
 192 20.0 19.2 28.8

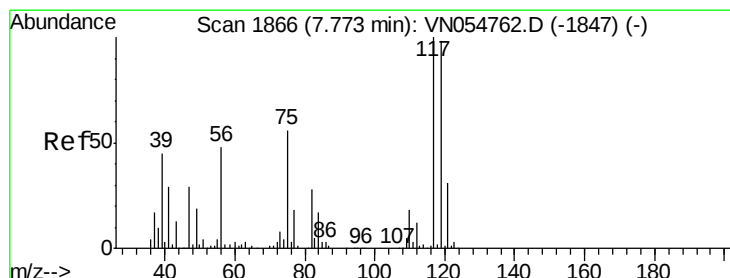
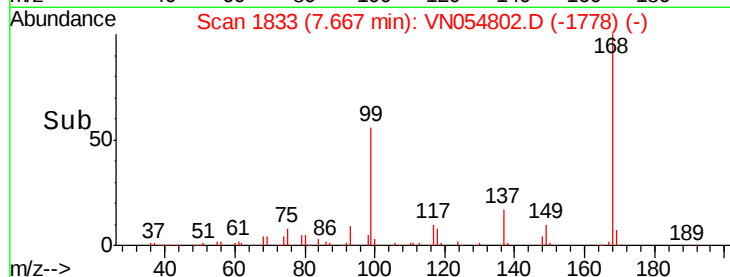
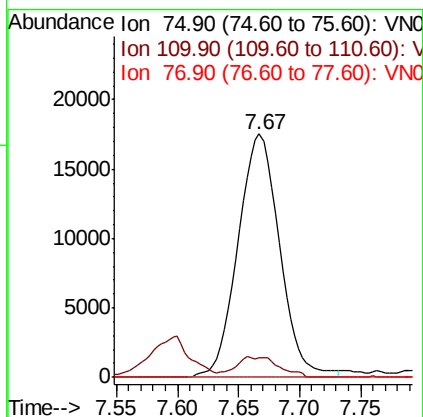
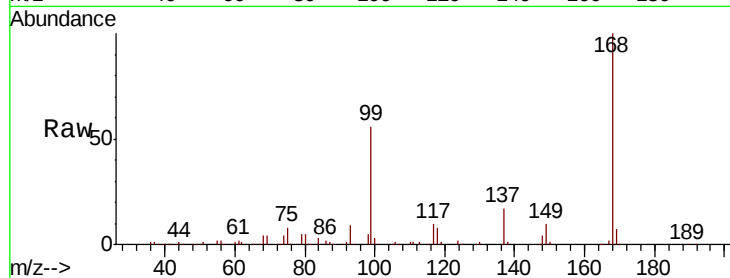




#36
 1,1-Dichloropropene
 Concen: 5.061 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054802.D
 Acq: 30 Mar 2019 15:06

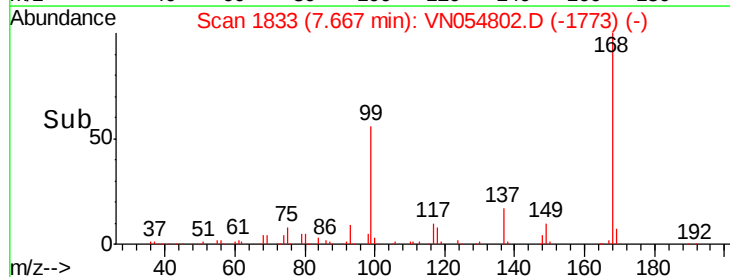
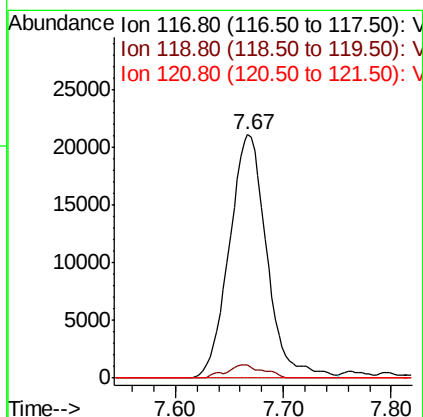
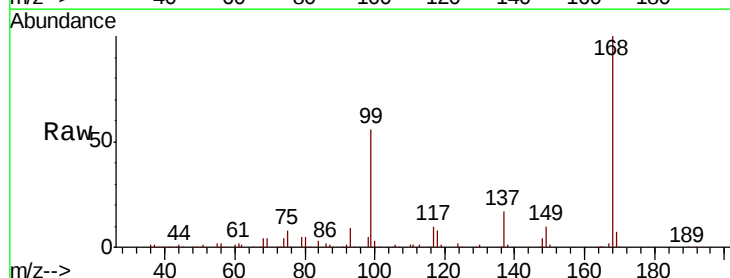
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

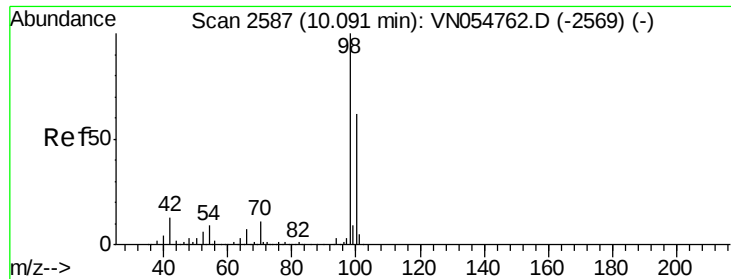
Tot Ion: 75 Resp: 41524
 Ion Ratio Lower Upper
 75 100
 110 2.6 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.437 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054802.D
 Acq: 30 Mar 2019 15:06

Tgt Ion: 117 Resp: 51295
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.3 114.5#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 47.518 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampled :

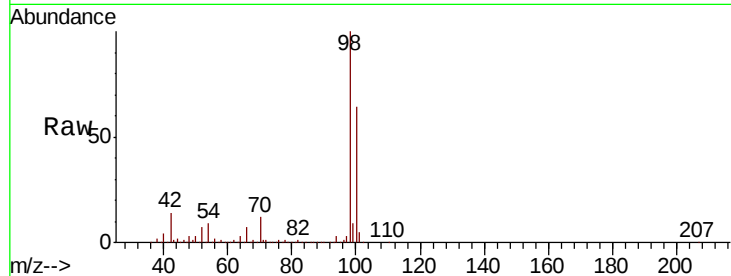
MW-1

Tot Ion: 98 Resp: 1037095

Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

600000

500000

400000

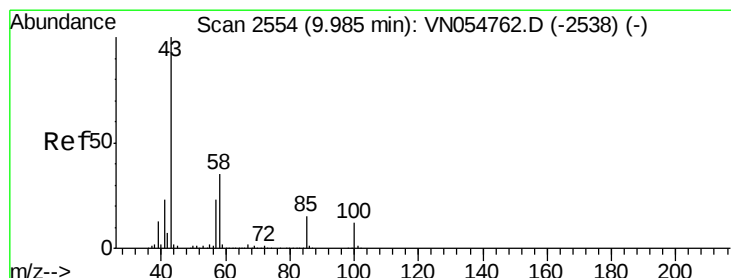
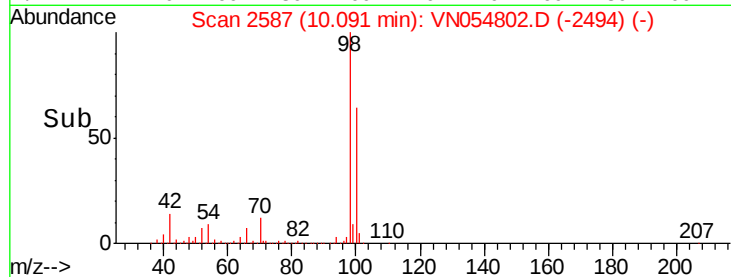
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.441 ug/l

RT: 10.00 min Scan# 2558

Delta R.T. 0.01 min

Lab File: VN054802.D

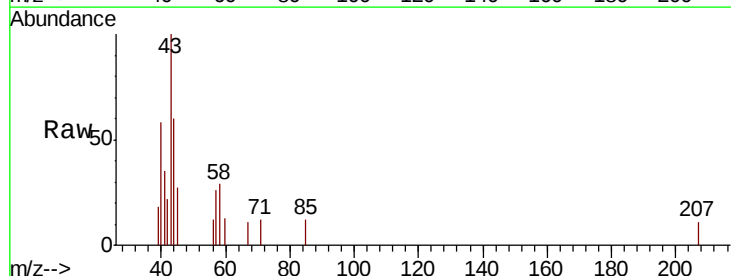
Acq: 30 Mar 2019 15:06

Tgt Ion: 43 Resp: 2424

Ion Ratio Lower Upper

43 100

58 40.5 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

5000

4000

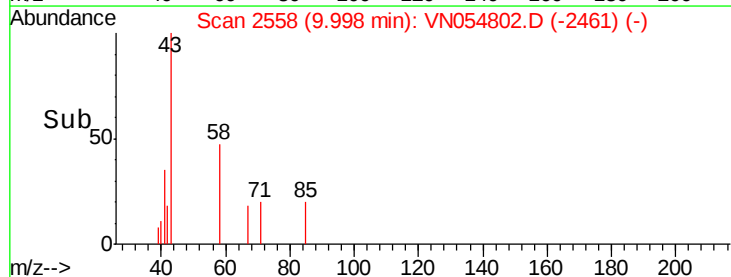
3000

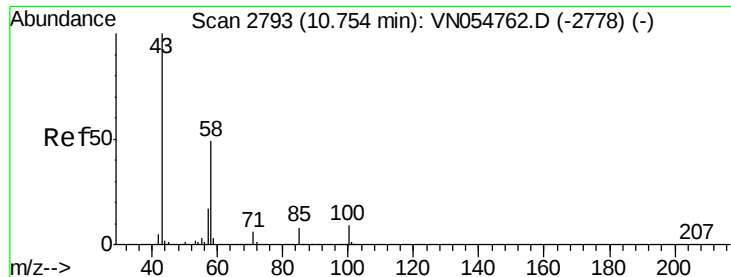
2000

1000

0

Time-->

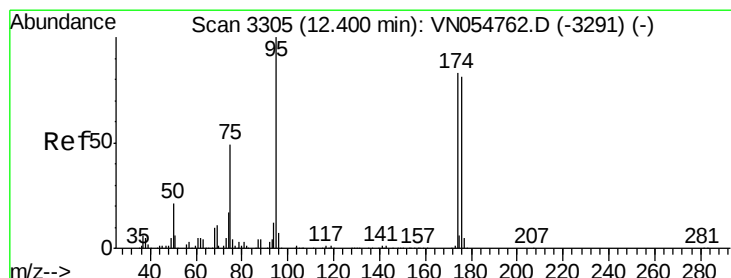
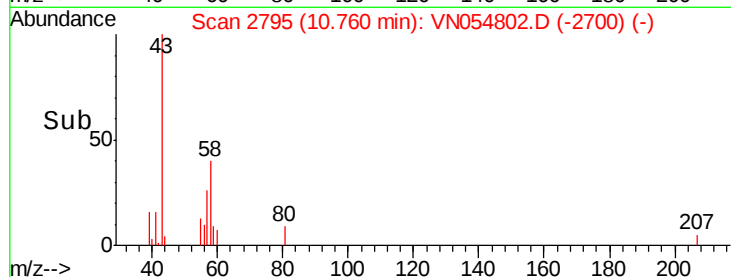
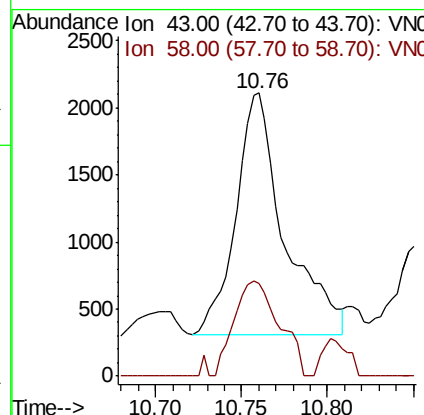
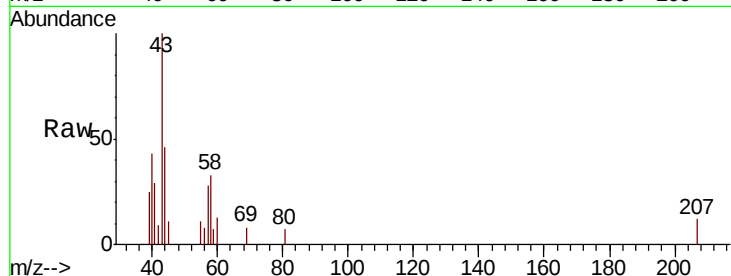




#59
2-Hexanone
Concen: 0.996 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

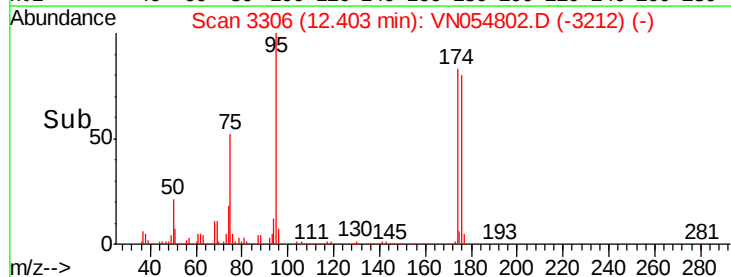
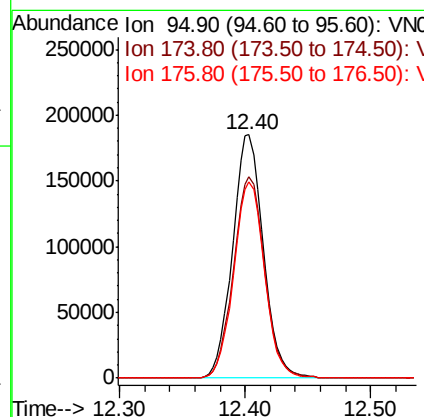
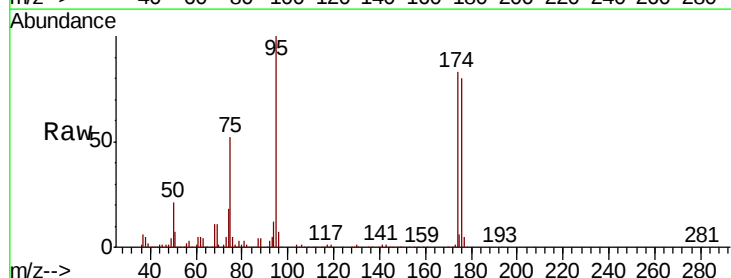
Instrument :
MSVOA_N
ClientSampleId :
MW-1

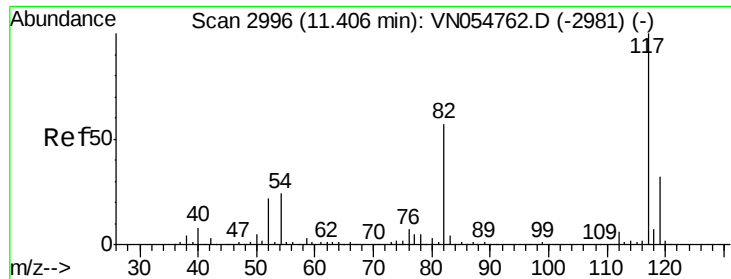
Tot Ion: 43 Resp: 3505
Ion Ratio Lower Upper
43 100
58 37.0 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 43.283 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Tgt Ion: 95 Resp: 314174
Ion Ratio Lower Upper
95 100
174 84.2 0.0 191.0
176 81.1 0.0 187.4

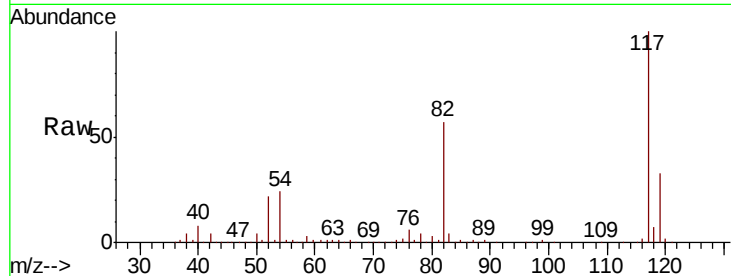




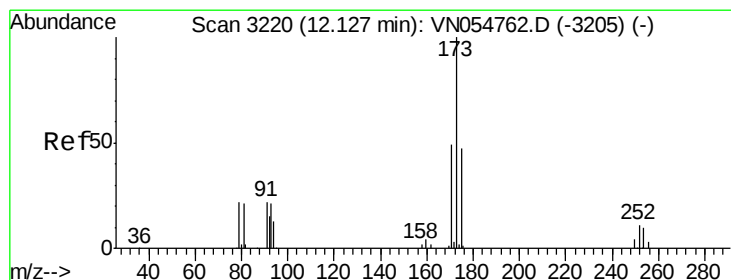
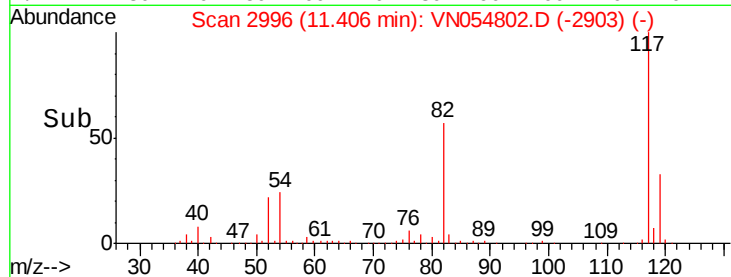
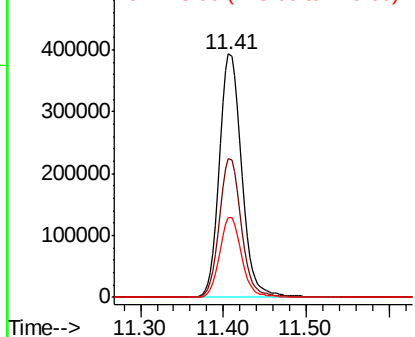
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Instrument :
MSVOA_N
ClientSampleId :
MW-1

Tot Ion:117 Resp: 730446
Ion Ratio Lower Upper
117 100
82 56.7 40.0 60.0
119 32.6 25.8 38.6

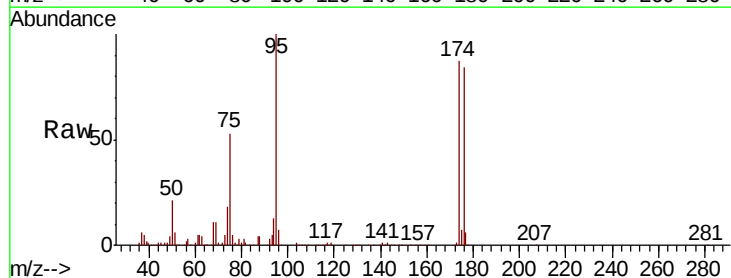


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

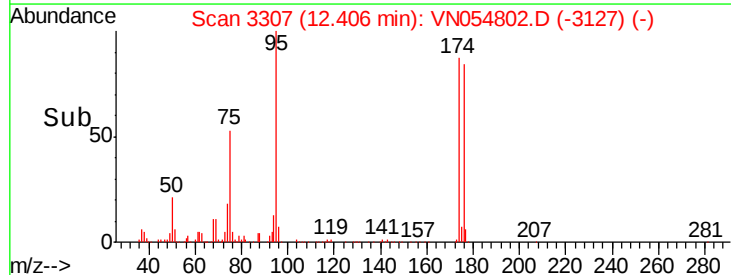
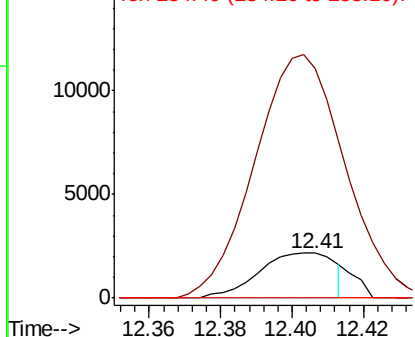


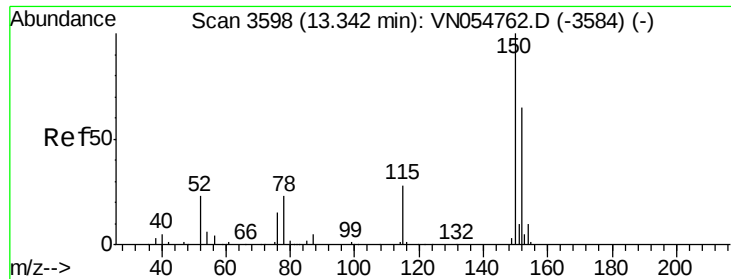
#71
Bromoform
Concen: 1.025 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Tgt Ion:173 Resp: 3215
Ion Ratio Lower Upper
173 100
175 544.8 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: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampled :

MW-1

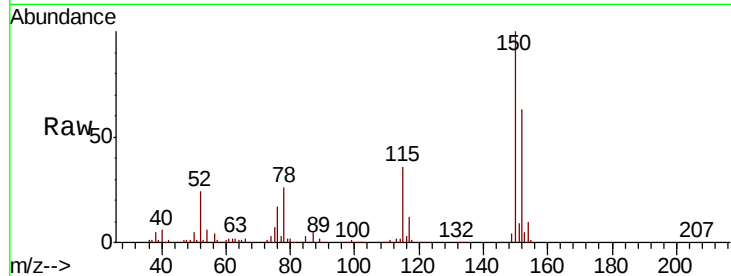
Tot Ion:152 Resp: 255988

Ion Ratio Lower Upper

152 100

115 57.6 27.2 81.6

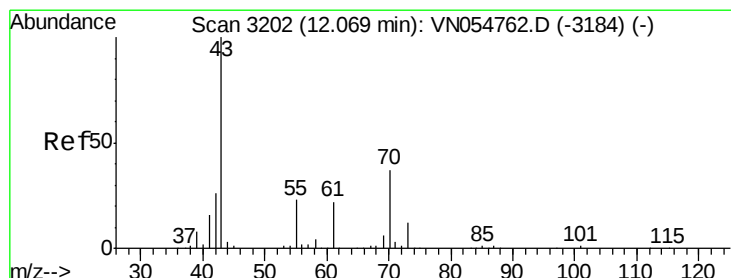
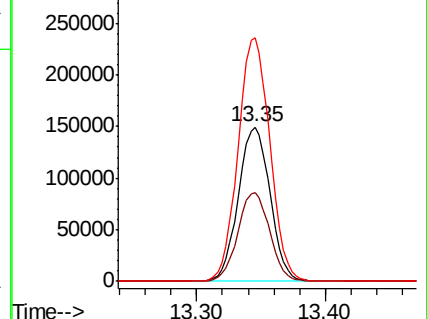
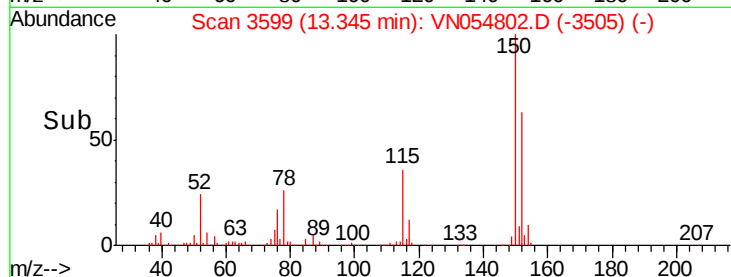
150 157.7 0.0 349.2



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



#74

N-ethyl acetate

Concen: 0.260 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Tgt Ion: 43 Resp: 1698

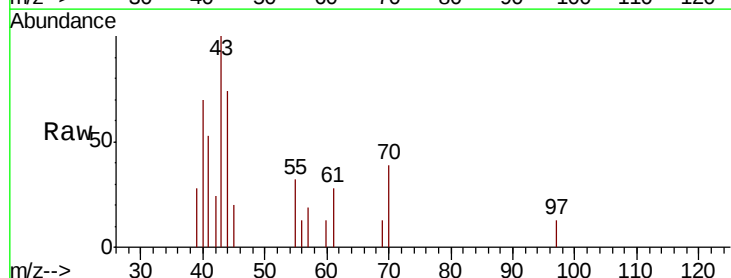
Ion Ratio Lower Upper

43 100

70 47.8 35.4 53.0

55 20.6 19.8 29.6

61 18.3 19.8 29.6#

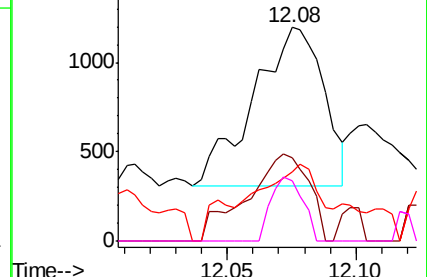
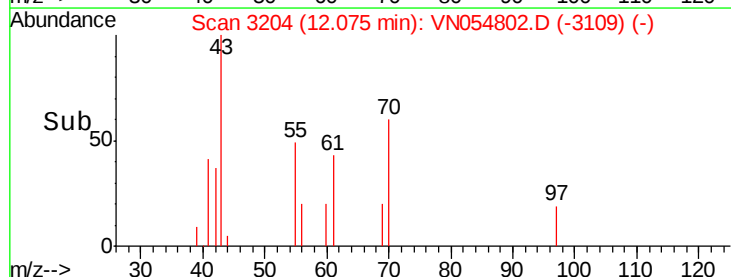


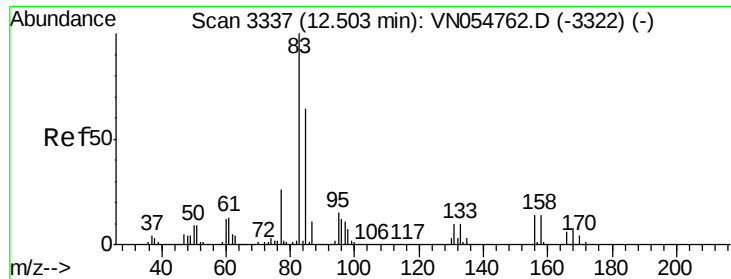
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3335

Delta R.T. -0.01 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampled :

MW-1

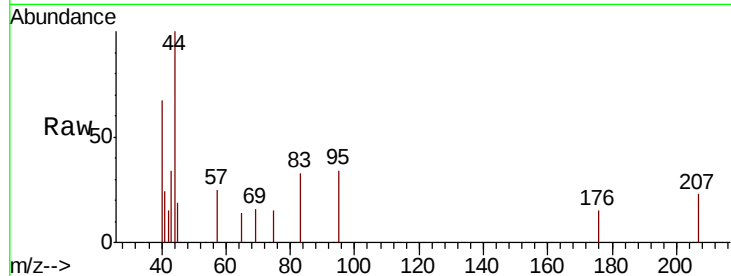
Tot Ion: 83 Resp: 360

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

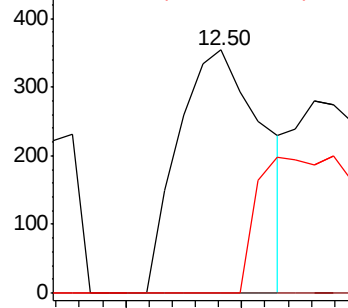
85 59.4 32.2 96.6



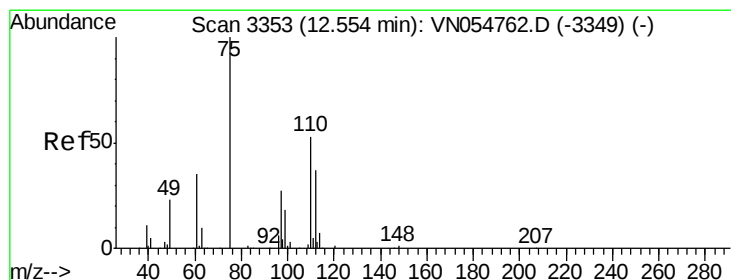
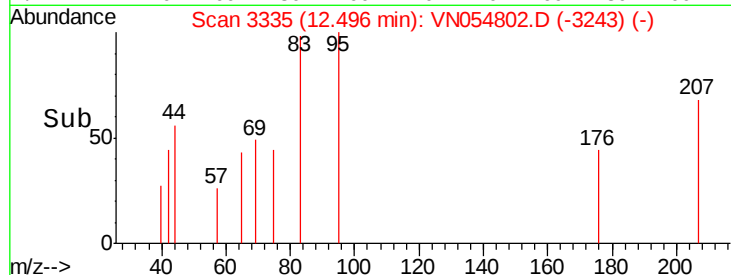
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 37.181 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054802.D

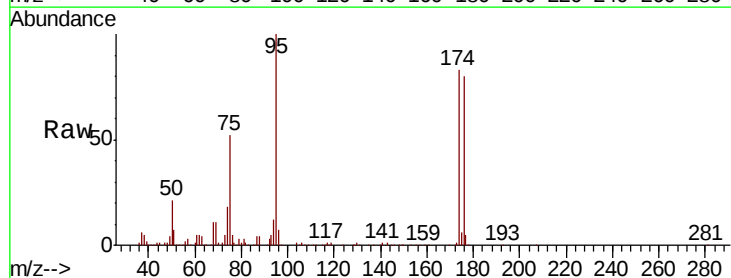
Acq: 30 Mar 2019 15:06

Tgt Ion: 75 Resp: 165350

Ion Ratio Lower Upper

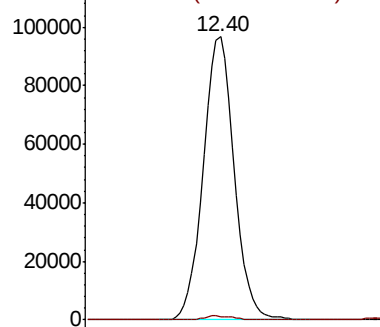
75 100

77 1.3 0.0 0.0#

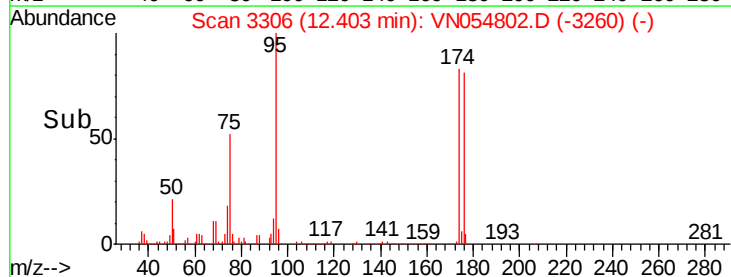


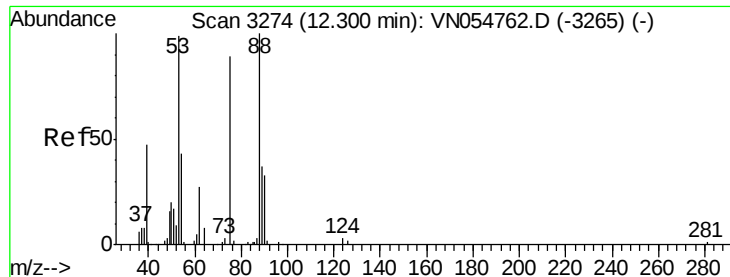
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->

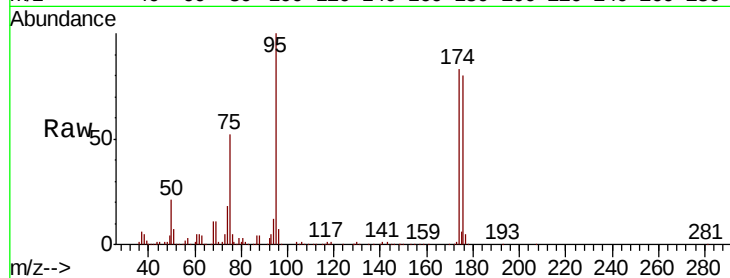




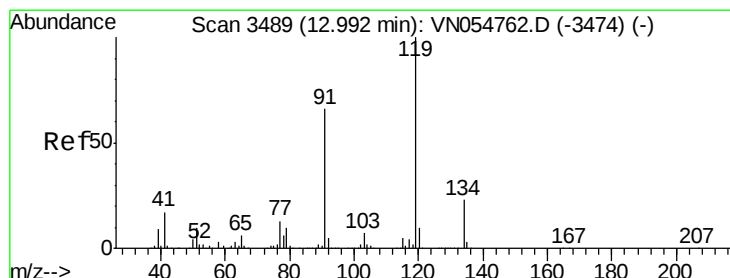
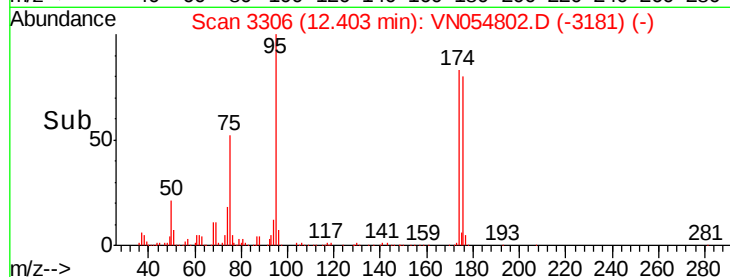
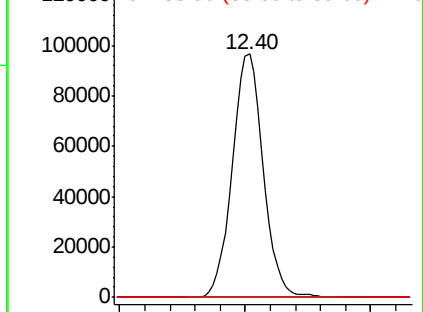
#81
trans-1,4-Dichloro-2-butene
Concen: 144.627 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Instrument :
MSVOA_N
ClientSampled :
MW-1

Tot Ion: 75 Resp: 165350
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#

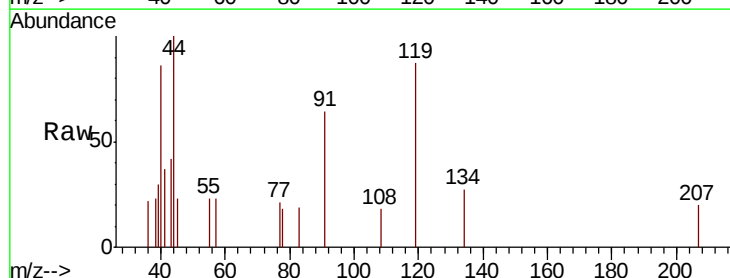


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

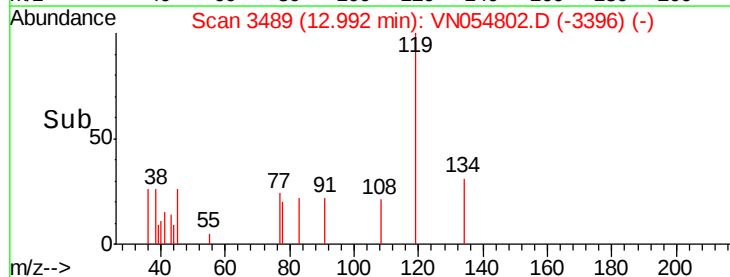
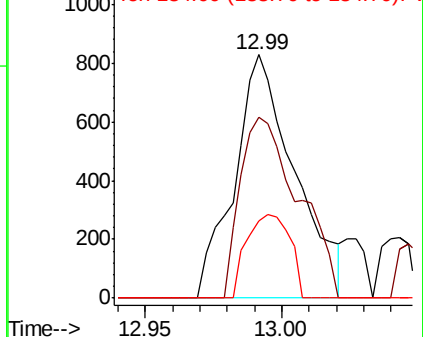


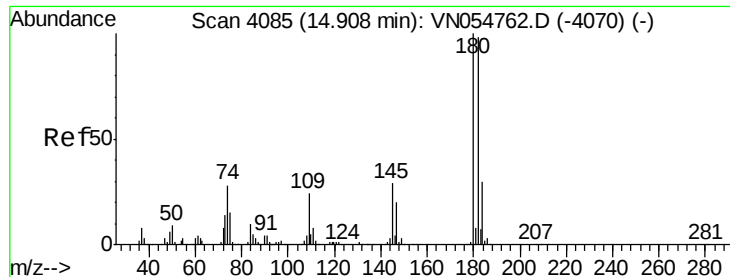
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054802.D
Acq: 30 Mar 2019 15:06

Tgt Ion: 119 Resp: 1277
Ion Ratio Lower Upper
119 100
91 71.4 30.9 92.8
134 24.3 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VN0
Ion 134.00 (133.70 to 134.70): V

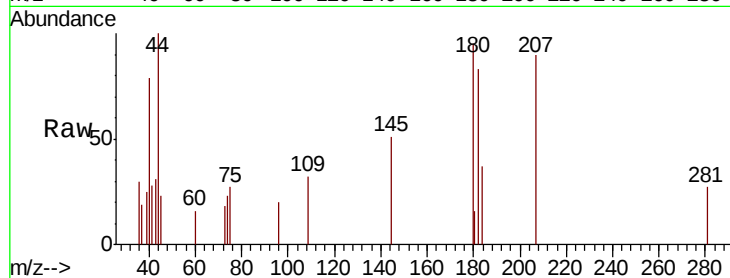




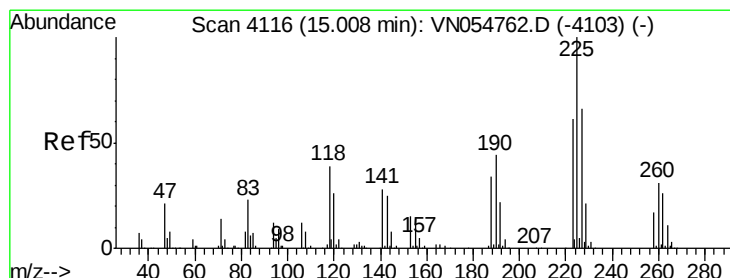
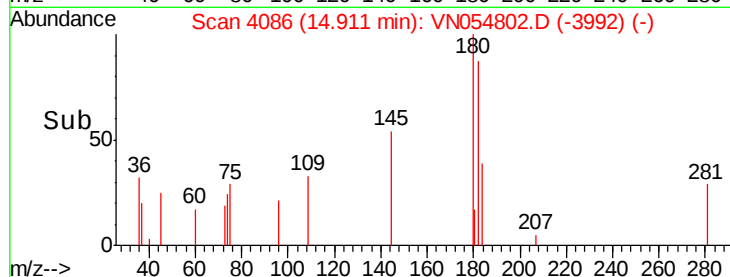
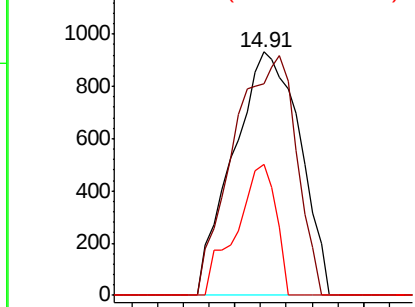
#93
 1,2,4-Trichlorobenzene
 Concen: 0.409 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054802.D
 Acq: 30 Mar 2019 15:06

Instrument :
 MSVOA_N
 ClientSampled :
 MW-1

Tot Ion:180 Resp: 1681
 Ion Ratio Lower Upper
 180 100
 182 92.8 48.0 144.2
 145 32.2 14.2 42.8

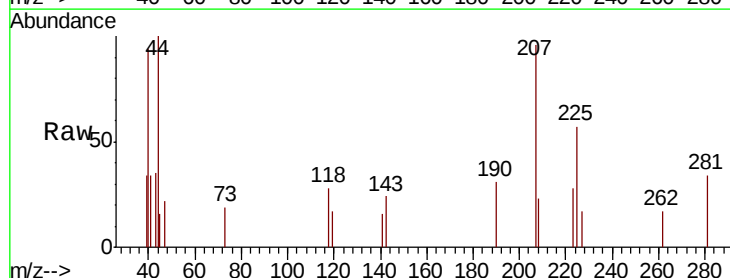


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

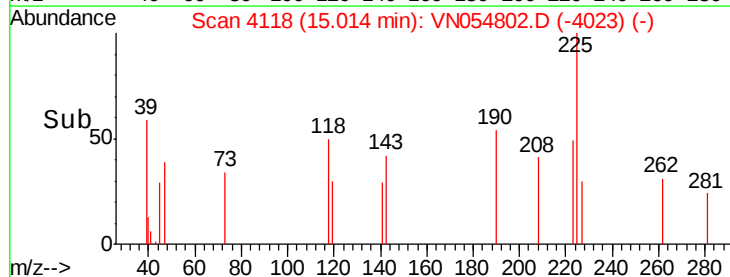
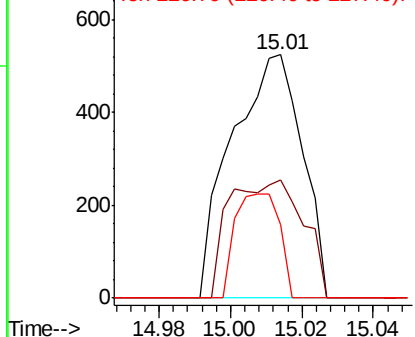


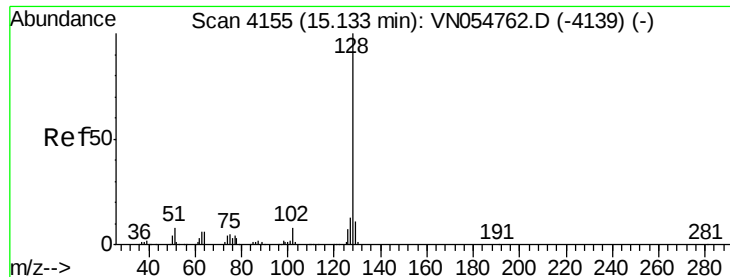
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN054802.D
 Acq: 30 Mar 2019 15:06

Tgt Ion:225 Resp: 715
 Ion Ratio Lower Upper
 225 100
 223 51.2 31.1 93.5
 227 27.0 31.9 95.9#



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: 0.820 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-1

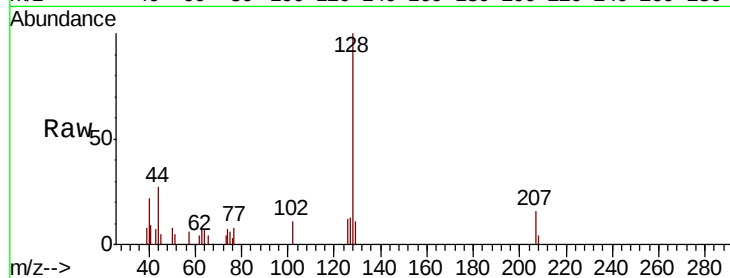
Tot Ion:128 Resp: 7565

Ion Ratio Lower Upper

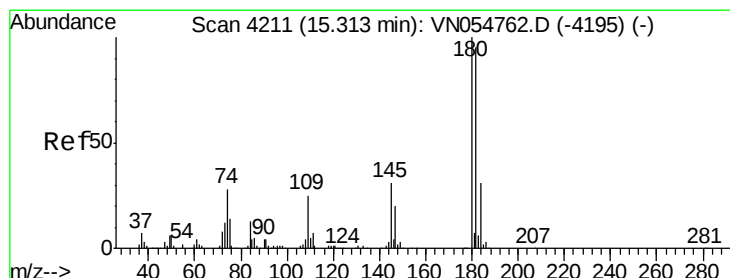
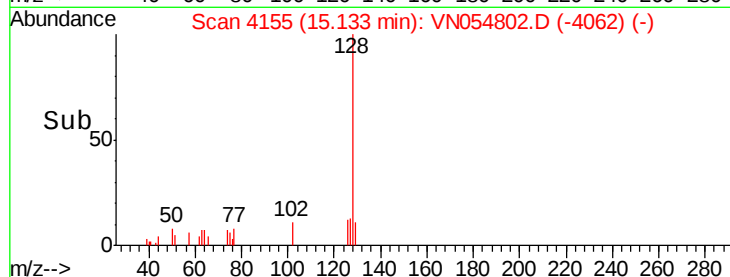
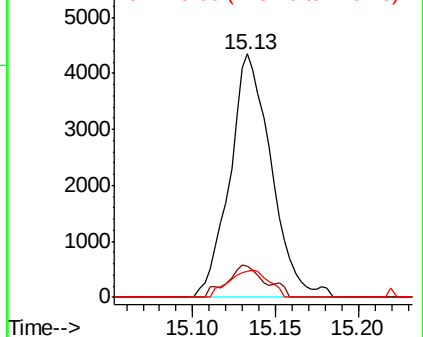
128 100

127 12.2 10.1 15.1

129 10.8 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: 0.560 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054802.D

Acq: 30 Mar 2019 15:06

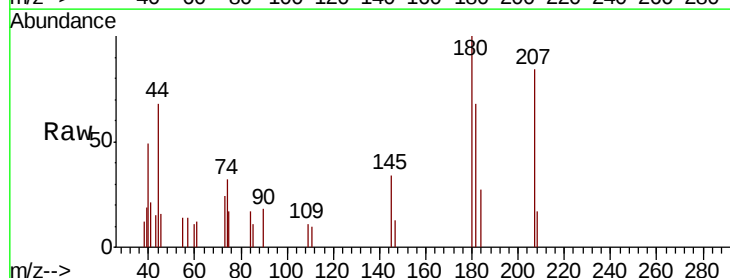
Tgt Ion:180 Resp: 2328

Ion Ratio Lower Upper

180 100

182 76.5 47.5 142.6

145 30.7 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

