

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\  
 Data File : VN061855.D  
 Acq On : 17 Jun 2020 17:51  
 Operator : JC/MD  
 Sample : L3041-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

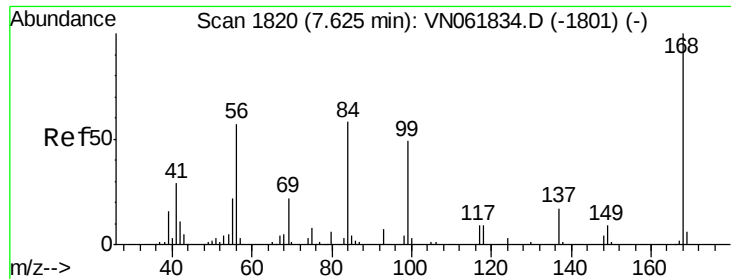
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SOURCE-WATER

Quant Time: Jun 18 03:55:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.63  | 168  | 138922   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.55  | 114  | 252530   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.38 | 117  | 240396   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.32 | 152  | 96397    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.99  | 65   | 90359    | 48.50  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 97.00%  |          |
| 35) Dibromofluoromethane       | 7.55  | 113  | 82559    | 51.10  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 102.20% |          |
| 50) Toluene-d8                 | 10.06 | 98   | 310691   | 48.92  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 97.84%  |          |
| 62) 4-Bromofluorobenzene       | 12.38 | 95   | 104269   | 47.86  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 95.72%  |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 16) Acetone                    | 3.77  | 43   | 406      | 0.738  | ug/l #  | 40       |
| 31) Cyclohexane                | 7.63  | 56   | 2990     | 1.218  | ug/l #  | 24       |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 11012    | 4.781  | ug/l #  | 48       |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 14323    | 6.279  | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1136     | 0.634  | ug/l #  | 1        |
| 71) Bromoform                  | 12.38 | 173  | 904      | 0.701  | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 52610    | 27.799 | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 52610    | 75.820 | ug/l #  | 14       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

Instrument :

MSVOA\_N

ClientSampleId :

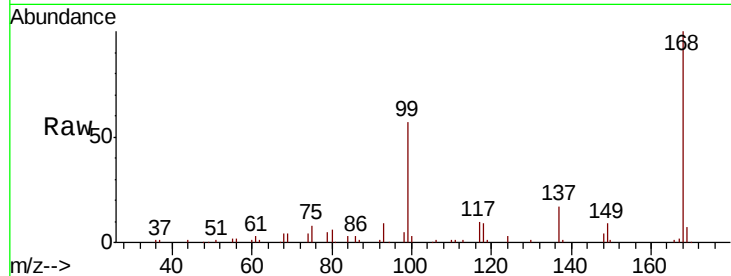
SOURCE-WATER

Tot Ion:168 Resp: 138922

Ion Ratio Lower Upper

168 100

99 57.0 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

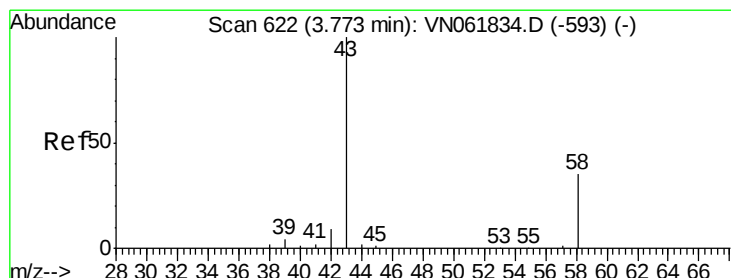
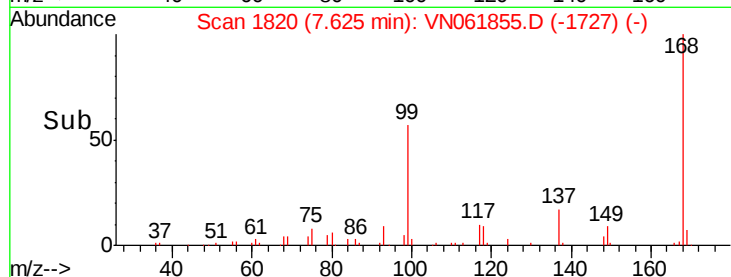
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 0.738 ug/l

RT: 3.77 min Scan# 620

Delta R.T. -0.01 min

Lab File: VN061855.D

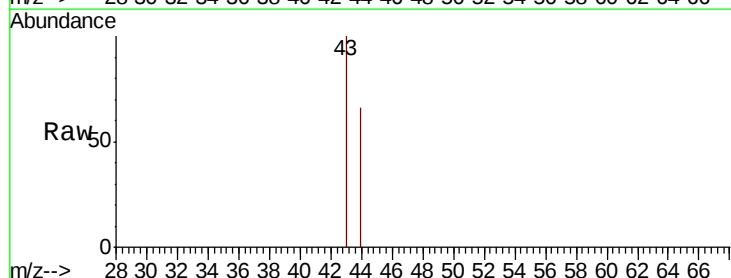
Acq: 17 Jun 2020 17:51

Tgt Ion: 43 Resp: 406

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.77

400

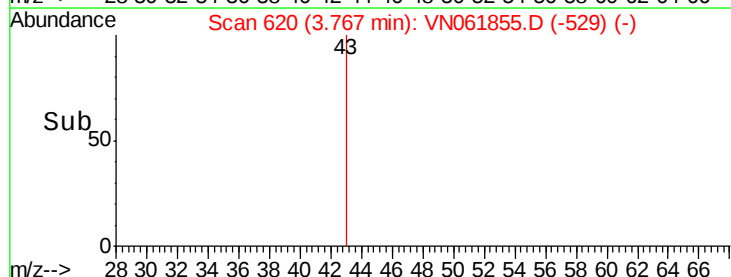
300

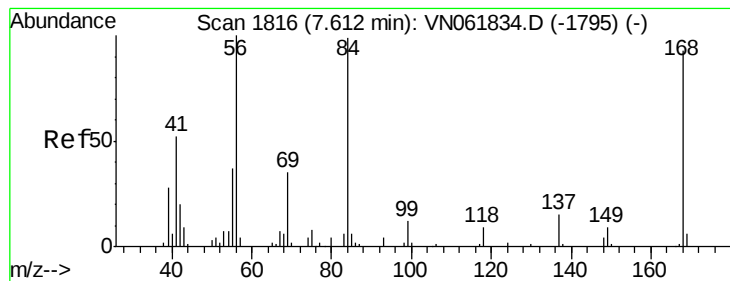
200

100

0

Time--> 3.74 3.75 3.76 3.77 3.78





#31

Cyclohexane

Concen: 1.218 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

Instrument :

MSVOA\_N

ClientSampleId :

SOURCE-WATER

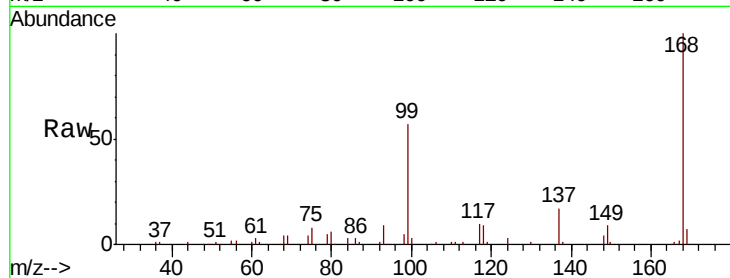
Tot Ion: 56 Resp: 2990

Ion Ratio Lower Upper

56 100

69 139.4 27.7 41.5#

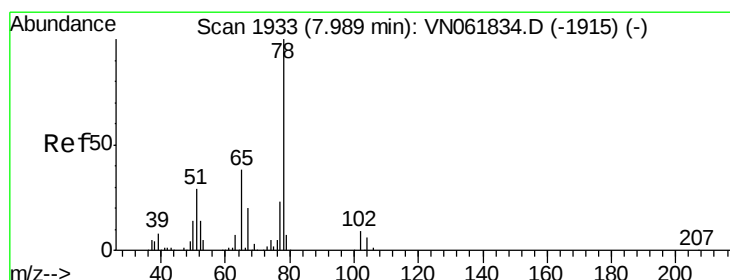
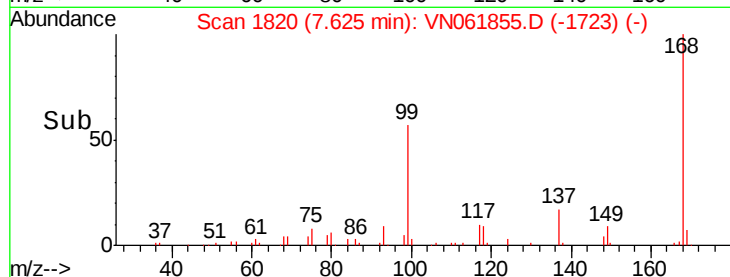
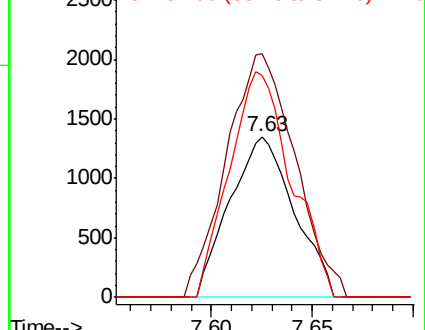
84 138.3 79.1 118.7#



Abundance Ion 56.00 (55.70 to 56.70): VN061834.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061834.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN061834.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.498 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061855.D

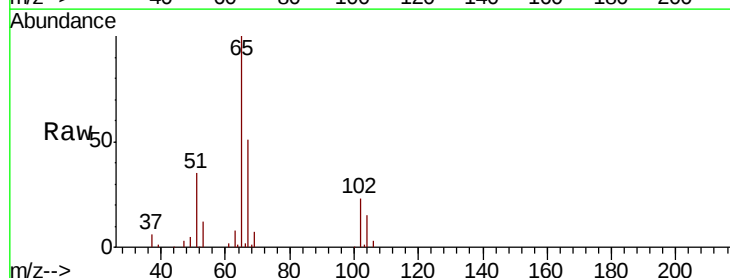
Acq: 17 Jun 2020 17:51

Tgt Ion: 65 Resp: 90359

Ion Ratio Lower Upper

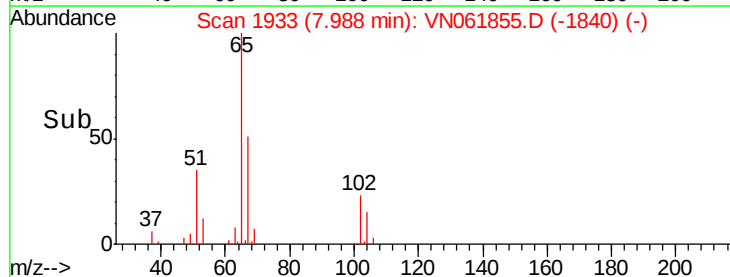
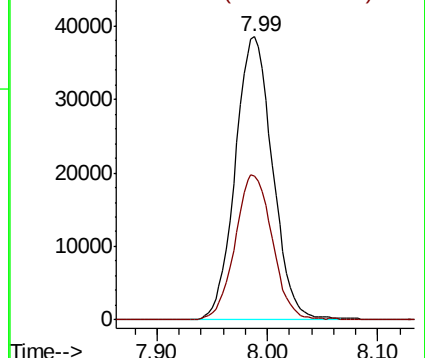
65 100

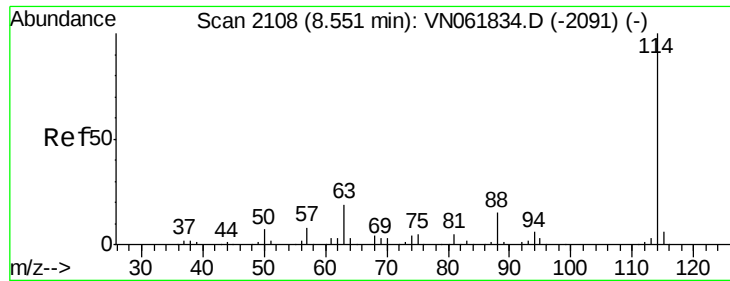
67 51.0 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN061834.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN061834.D (-1915) (-)

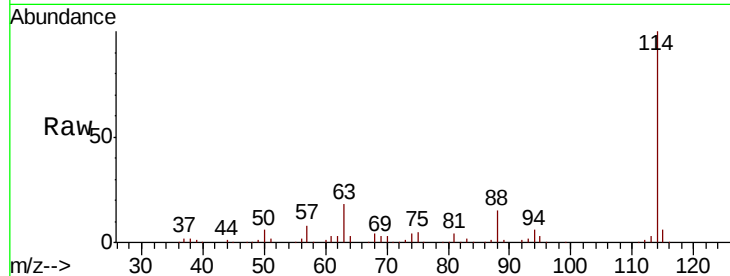




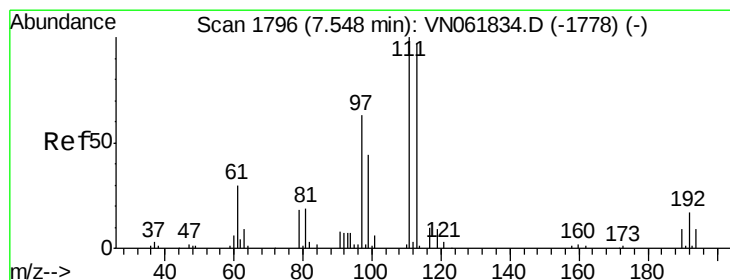
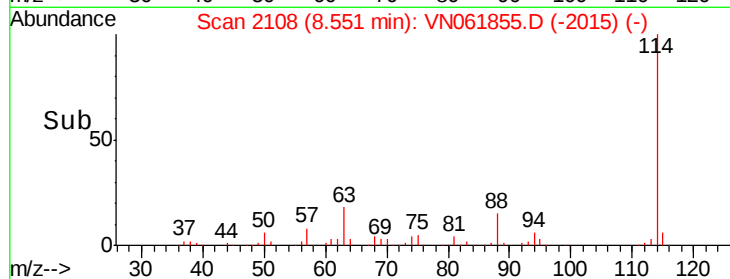
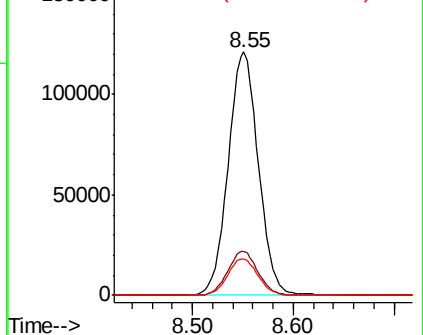
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061855.D  
 Acq: 17 Jun 2020 17:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SOURCE-WATER

Tot Ion:114 Resp: 252530  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 37.6  
 88 14.9 0.0 31.0

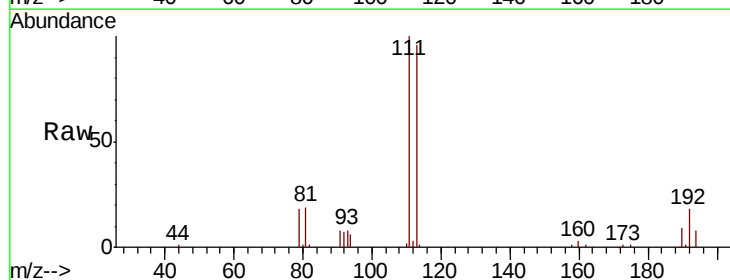


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

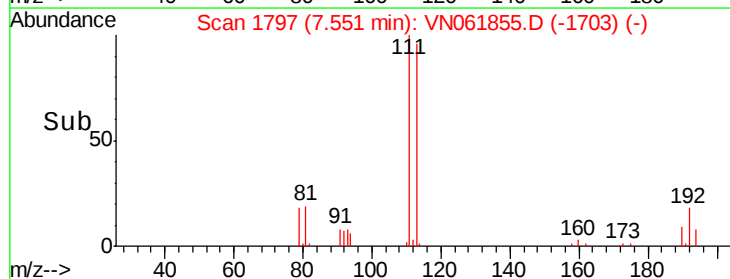
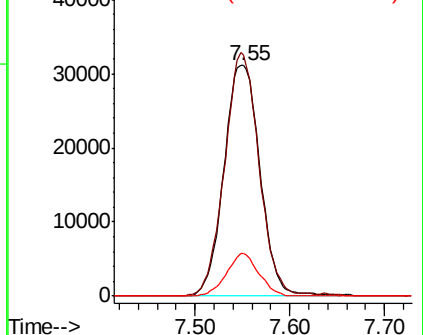


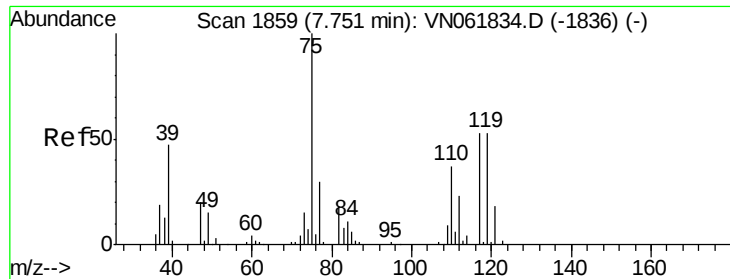
#35  
 Dibromofluoromethane  
 Concen: 51.103 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. 0.00 min  
 Lab File: VN061855.D  
 Acq: 17 Jun 2020 17:51

Tgt Ion:113 Resp: 82559  
 Ion Ratio Lower Upper  
 113 100  
 111 100.5 83.7 125.5  
 192 16.5 13.9 20.9



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

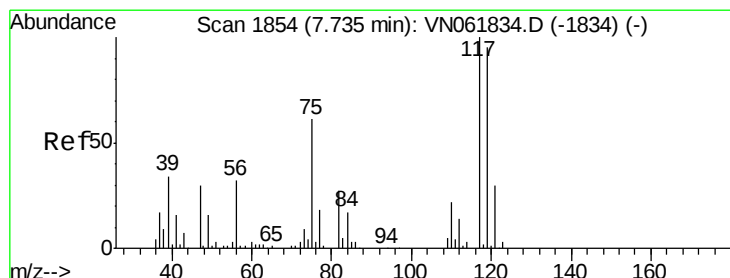
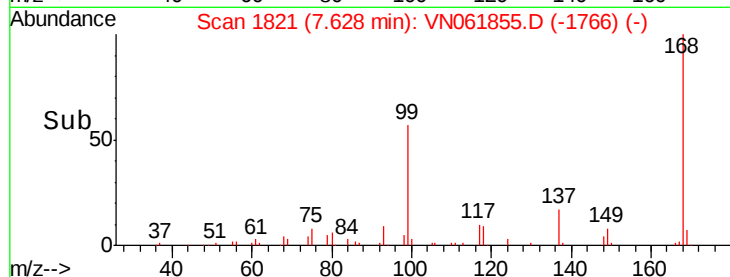
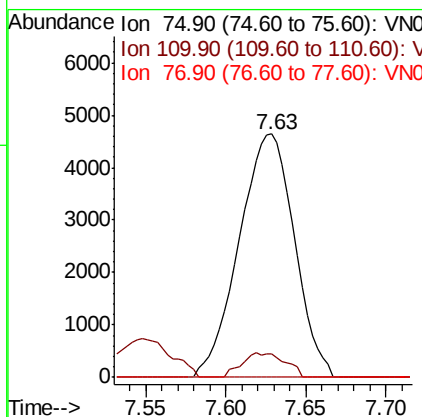
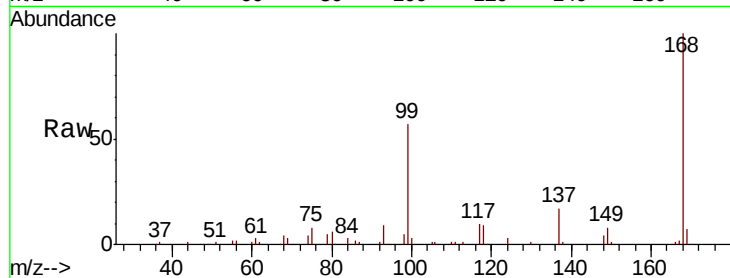




#36  
 1,1-Dichloropropene  
 Concen: 4.781 ug/l  
 RT: 7.63 min Scan# 1821  
 Delta R.T. -0.12 min  
 Lab File: VN061855.D  
 Acq: 17 Jun 2020 17:51

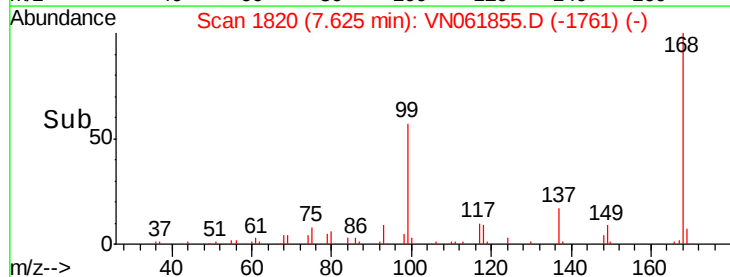
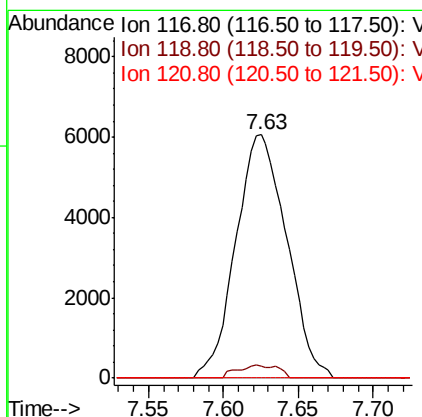
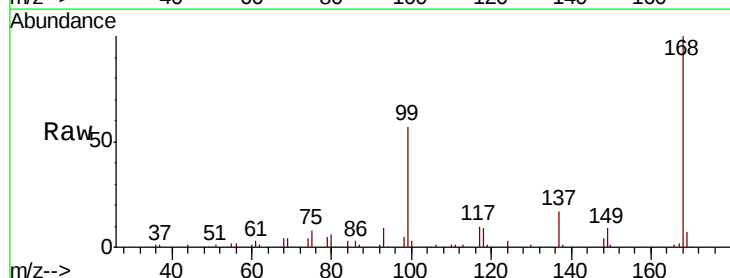
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SOURCE-WATER

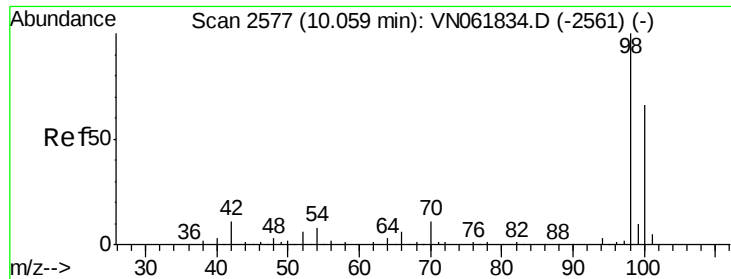
Tot Ion: 75 Resp: 11012  
 Ion Ratio Lower Upper  
 75 100  
 110 7.8 18.2 54.6#  
 77 0.0 24.2 36.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.279 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.11 min  
 Lab File: VN061855.D  
 Acq: 17 Jun 2020 17:51

Tgt Ion: 117 Resp: 14323  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 75.8 113.6#  
 121 0.0 23.8 35.6#





#50

Toluene-d8

Concen: 48.917 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

Instrument :

MSVOA\_N

ClientSampleId :

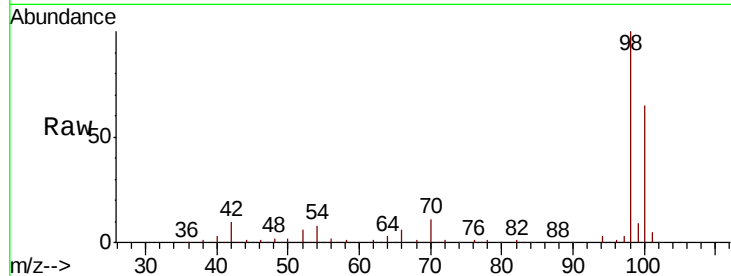
SOURCE-WATER

Tot Ion: 98 Resp: 310691

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

200000

150000

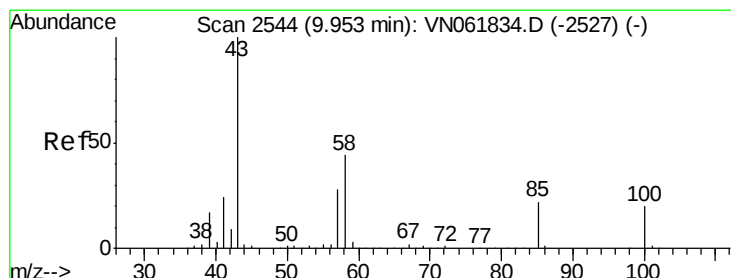
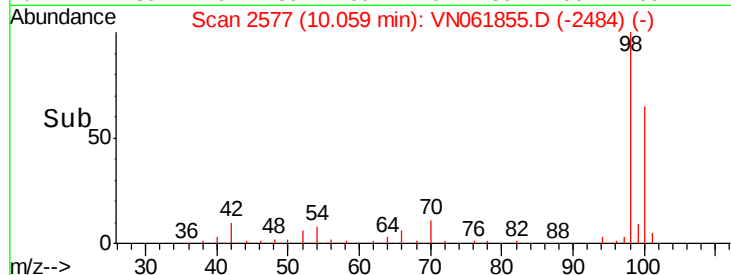
100000

50000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.634 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN061855.D

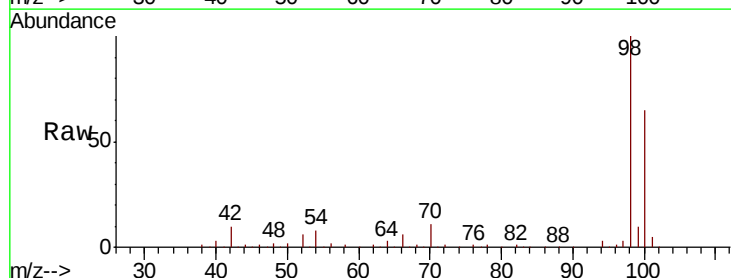
Acq: 17 Jun 2020 17:51

Tgt Ion: 43 Resp: 1136

Ion Ratio Lower Upper

43 100

58 190.8 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

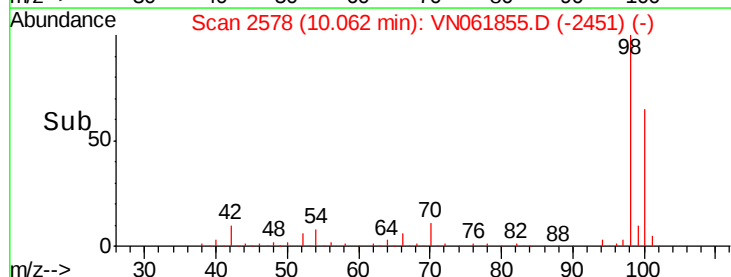
1000

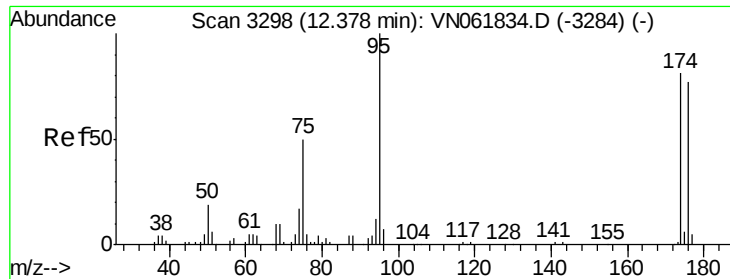
500

0

10.05 10.10

Time-->





#62

4-Bromofluorobenzene

Concen: 47.860 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

Instrument :

MSVOA\_N

ClientSampleId :

SOURCE-WATER

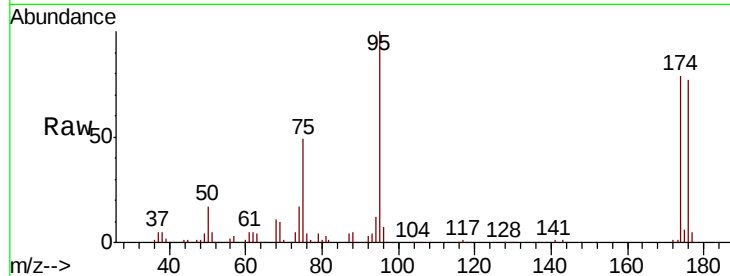
Tot Ion: 95 Resp: 104269

Ion Ratio Lower Upper

95 100

174 79.3 0.0 158.6

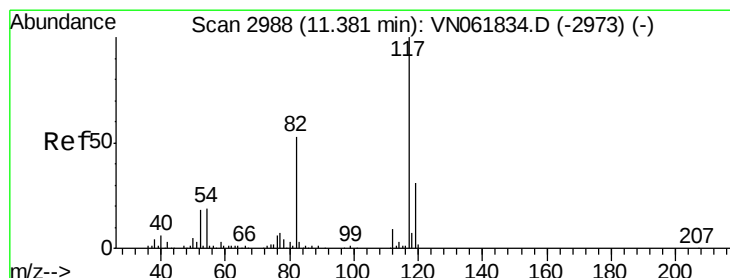
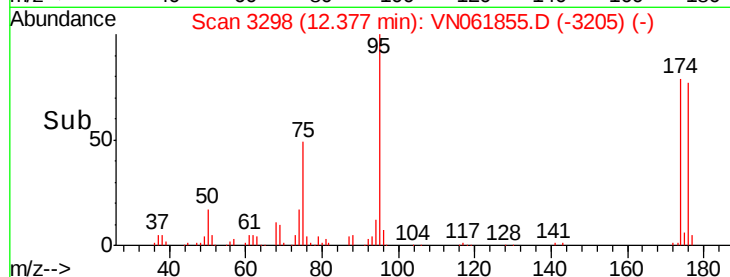
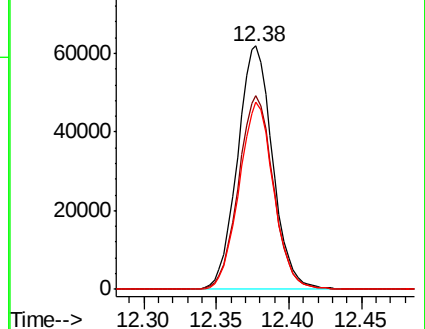
176 75.8 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

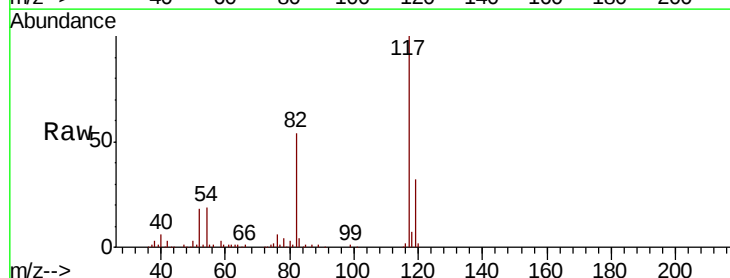
Tgt Ion: 117 Resp: 240396

Ion Ratio Lower Upper

117 100

82 54.1 42.6 64.0

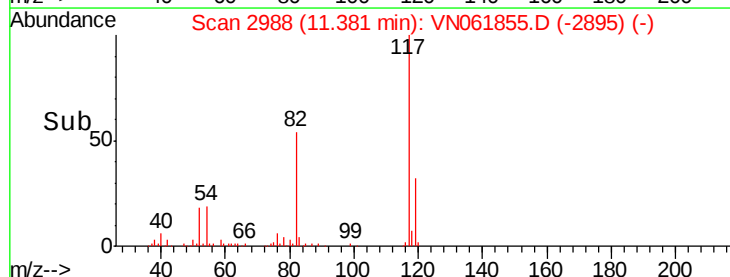
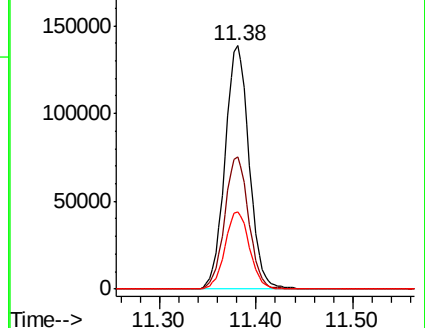
119 31.7 24.7 37.1

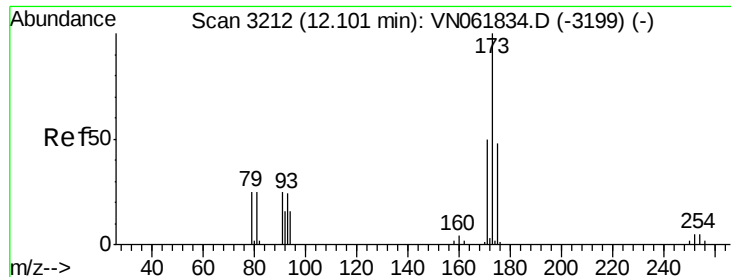


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#71

Bromoform

Concen: 0.701 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

Instrument :

MSVOA\_N

ClientSampleId :

SOURCE-WATER

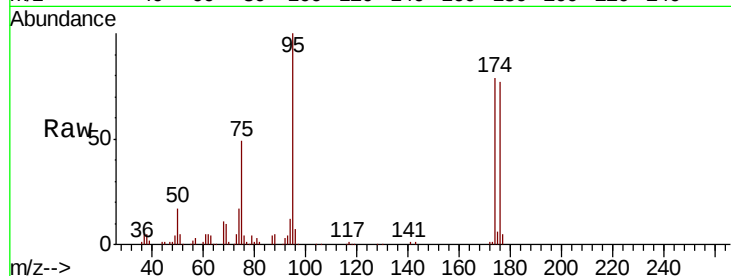
Tot Ion:173 Resp: 904

Ion Ratio Lower Upper

173 100

175 548.1 23.9 71.7#

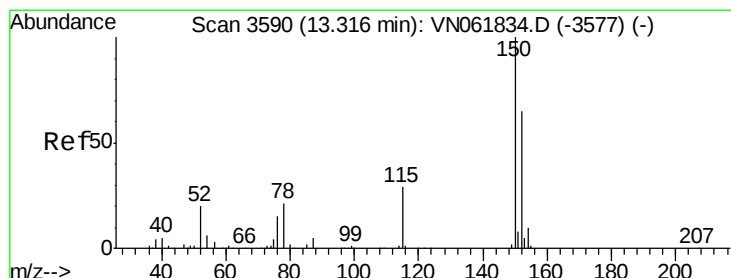
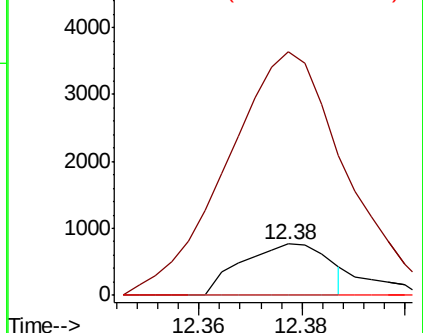
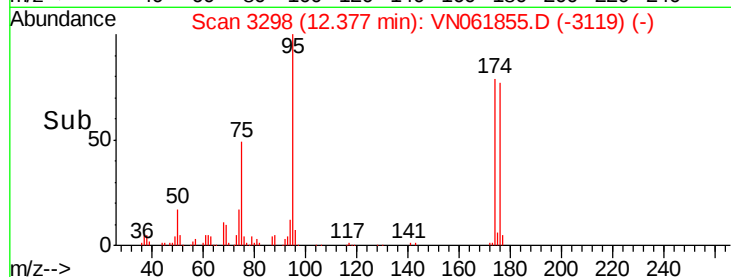
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

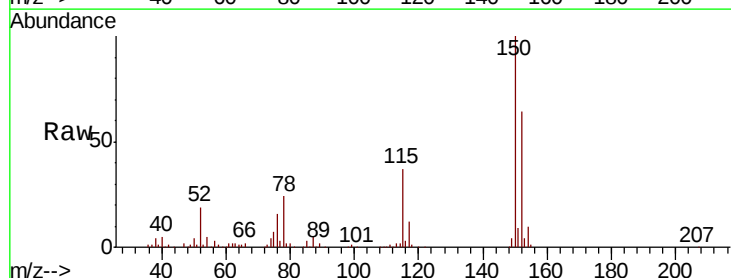
Tgt Ion:152 Resp: 96397

Ion Ratio Lower Upper

152 100

115 58.3 29.1 87.3

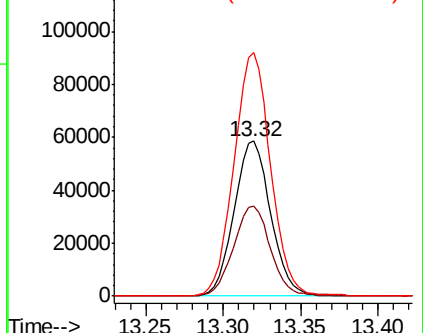
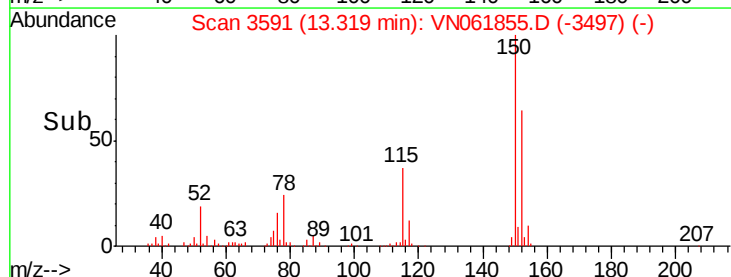
150 157.3 0.0 347.6

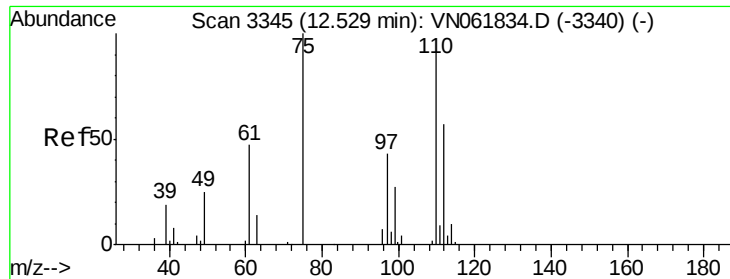


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.799 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

Instrument :

MSVOA\_N

ClientSampleId :

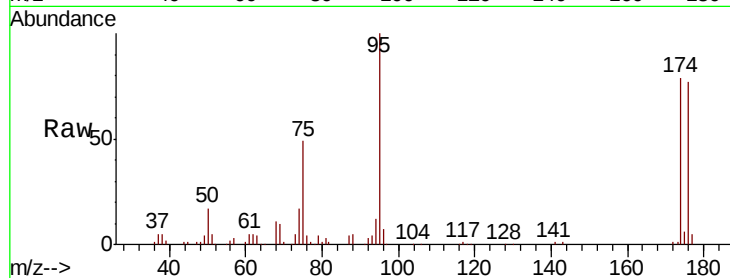
SOURCE-WATER

Tot Ion: 75 Resp: 52610

Ion Ratio Lower Upper

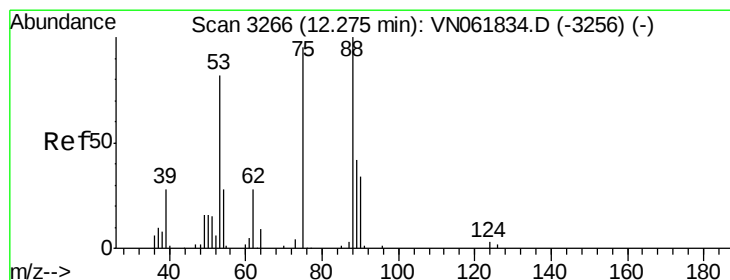
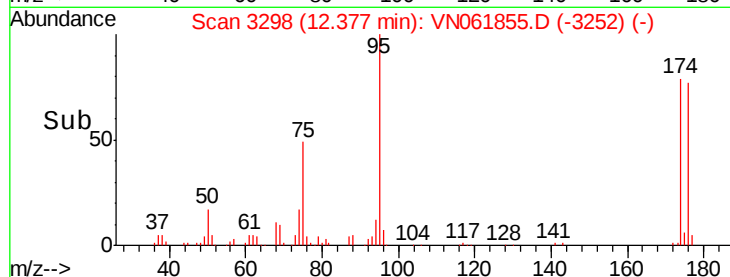
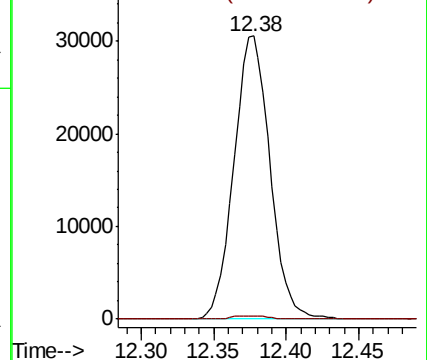
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 75.820 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061855.D

Acq: 17 Jun 2020 17:51

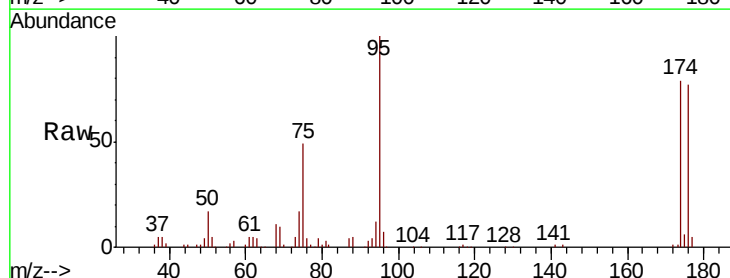
Tgt Ion: 75 Resp: 52610

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

