

Data File : VV008391.D  
Acq On : 24 Oct 2018 14:40  
Operator : SY/MD  
Sample : MDL02  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL02

Quant Time: Oct 25 08:51:18 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 25 08:48:14 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 192427   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 173434   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 74152    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 47702    | 44.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.54% |
| 7) Chloroethane-d5             | 1.57    | 69    | 37547    | 48.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.62% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 67728    | 35.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.40% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 115063   | 99.37    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.37% |
| 24) Chloroform-d               | 4.41    | 84    | 121157   | 46.11    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.22% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 83671    | 47.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.24% |
| 32) Benzene-d6                 | 5.10    | 84    | 244688   | 49.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.02% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 84802    | 49.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.86% |
| 41) Toluene-d8                 | 7.36    | 98    | 219615   | 48.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.88% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 41158    | 49.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.76% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 88765    | 99.09    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.09% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 114723   | 49.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.76% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 74921    | 49.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.78% |

#### Target Compounds

|                                |      |     |      |              | Qvalue |
|--------------------------------|------|-----|------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 2416 | 1.758 ug/L   | 96     |
| 3) Chloromethane               | 1.25 | 50  | 2748 | 1.867 ug/L   | 95     |
| 5) Vinyl chloride              | 1.33 | 62  | 2579 | 1.891 ug/L # | 52     |
| 6) Bromomethane                | 1.52 | 94  | 853  | 2.279 ug/L   | 94     |
| 8) Chloroethane                | 1.59 | 64  | 1591 | 2.220 ug/L   | 91     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 3086 | 1.758 ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 2172 | 2.369 ug/L # | 82     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 2275 | 2.635 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 3595 | 4.000 ug/L   | 96     |
| 14) Carbon disulfide           | 2.32 | 76  | 7161 | 1.842 ug/L   | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 3203 | 1.787 ug/L   | 98     |
| 16) Methylene chloride         | 2.54 | 84  | 2891 | 1.933 ug/L   | 91     |
| 17) trans-1,2-Dichloroethene   | 2.80 | 96  | 2381 | 1.809 ug/L   | 95     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 8390 | 1.781 ug/L # | 90     |
| 19) 1,1-Dichloroethane         | 3.24 | 63  | 4814 | 1.774 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96  | 2879 | 1.920 ug/L   | 96     |
| 22) 2-Butanone                 | 4.03 | 43  | 4267 | 3.287 ug/L # | 67     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 25 08:48:14 2018  
Response via : Initial Calibration

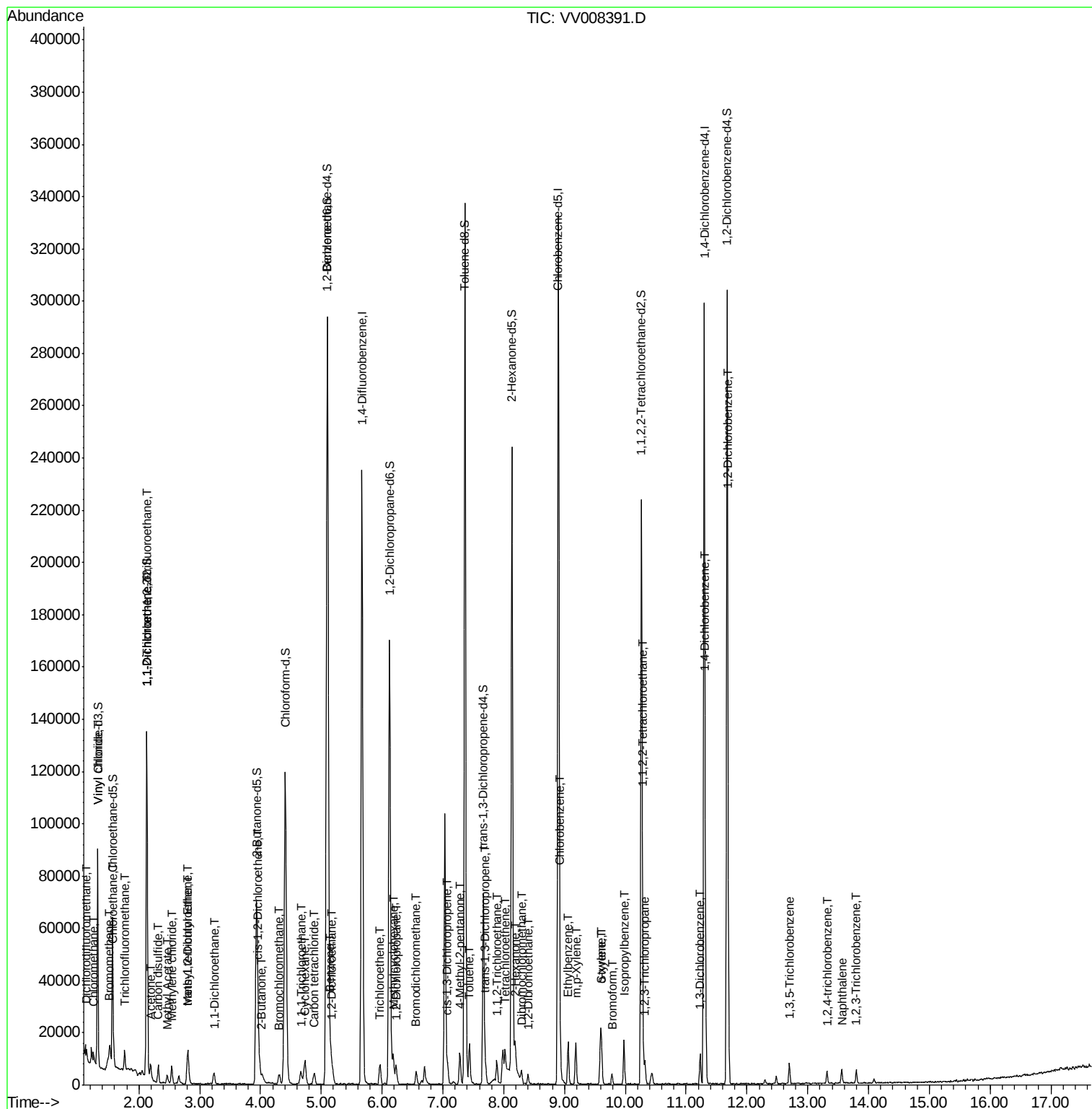
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.30  | 128  | 600      | 0.849 | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 5.19  | 62   | 4298     | 1.942 | ug/L   | 99       |
| 29) Cyclohexane               | 4.73  | 56   | 4738     | 1.876 | ug/L # | 66       |
| 30) 1,1,1-Trichloroethane     | 4.66  | 97   | 4181     | 1.859 | ug/L   | 94       |
| 31) Carbon tetrachloride      | 4.88  | 117  | 3316     | 1.737 | ug/L   | 95       |
| 33) Benzene                   | 5.15  | 78   | 10538    | 1.859 | ug/L   | 100      |
| 34) Trichloroethene           | 5.96  | 95   | 2783     | 1.917 | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.18  | 83   | 4443     | 1.801 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.23  | 63   | 2922     | 1.866 | ug/L # | 89       |
| 38) Bromodichloromethane      | 6.56  | 83   | 3484     | 1.746 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.07  | 75   | 4711     | 1.914 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.28  | 43   | 8775     | 3.785 | ug/L   | 94       |
| 42) Toluene                   | 7.43  | 91   | 10889    | 1.849 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.70  | 75   | 4381     | 1.902 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.89  | 97   | 2423     | 1.750 | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.02  | 164  | 1612     | 1.704 | ug/L   | 88       |
| 48) 2-Hexanone                | 8.19  | 43   | 6972     | 3.897 | ug/L # | 92       |
| 49) Dibromochloromethane      | 8.30  | 129  | 2774     | 1.865 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.40  | 107  | 2615     | 1.801 | ug/L # | 100      |
| 51) Chlorobenzene             | 8.93  | 112  | 6566     | 1.811 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.06  | 91   | 11620    | 1.762 | ug/L   | 97       |
| 53) m,p-Xylene                | 9.19  | 106  | 4316     | 1.791 | ug/L   | 98       |
| 54) o-xylene                  | 9.59  | 106  | 4426     | 1.839 | ug/L   | 92       |
| 55) Styrene                   | 9.61  | 104  | 7174     | 1.769 | ug/L   | 95       |
| 56) Isopropylbenzene          | 9.98  | 105  | 10895    | 1.730 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane | 10.29 | 83   | 5022     | 2.071 | ug/L # | 97       |
| 59) 1,2,3-Trichloropropane    | 10.32 | 75   | 3519     | 1.793 | ug/L   | 92       |
| 61) Bromoform                 | 9.78  | 173  | 1689     | 1.805 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene       | 11.23 | 146  | 4523     | 1.845 | ug/L   | 96       |
| 63) 1,4-Dichlorobenzene       | 11.32 | 146  | 4827     | 1.964 | ug/L   | 92       |
| 65) 1,2-Dichlorobenzene       | 11.69 | 146  | 4815     | 1.926 | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene    | 12.70 | 180  | 2462     | 1.538 | ug/L # | 96       |
| 68) 1,2,4-trichlorobenzene    | 13.32 | 180  | 1602     | 1.237 | ug/L   | 99       |
| 69) Naphthalene               | 13.56 | 128  | 4678     | 1.117 | ug/L # | 93       |
| 70) 1,2,3-Trichlorobenzene    | 13.80 | 180  | 1716     | 1.326 | ug/L   | 92       |

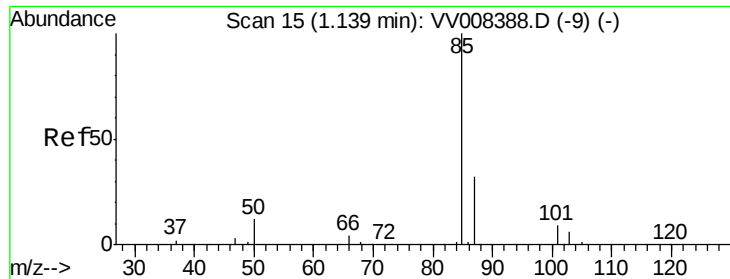
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.758 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

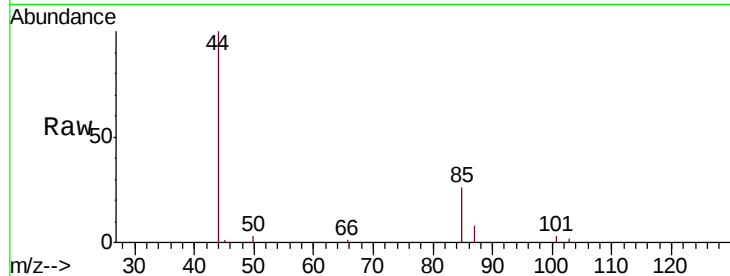
MDL02

Tgt Ion: 85 Resp: 2416

Ion Ratio Lower Upper

85 100

87 29.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV008388.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV008388.D (-9) (-)

1.14

2500

2000

1500

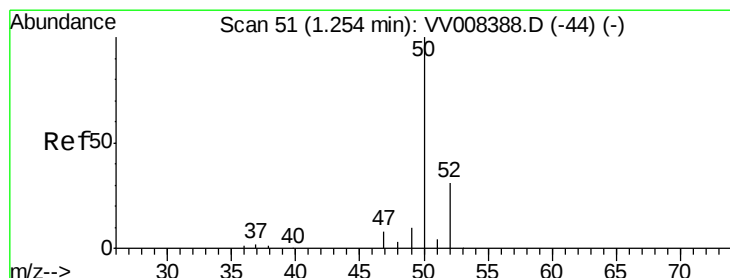
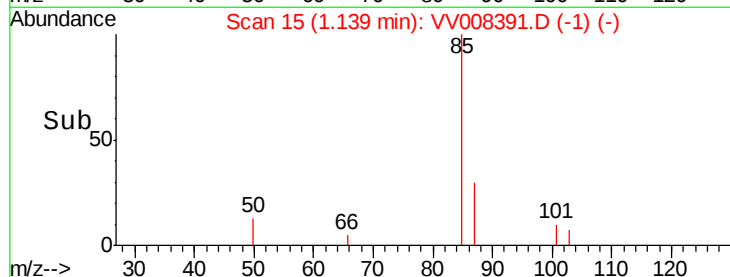
1000

500

0

1.12 1.14 1.16 1.18

Time-->



#3

Chloromethane

Concen: 1.867 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008391.D

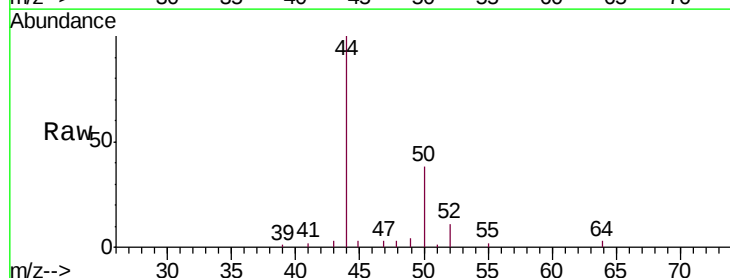
Acq: 24 Oct 2018 14:40

Tgt Ion: 50 Resp: 2748

Ion Ratio Lower Upper

50 100

52 30.3 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV008388.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV008388.D (-44) (-)

1.25

3000

2500

2000

1500

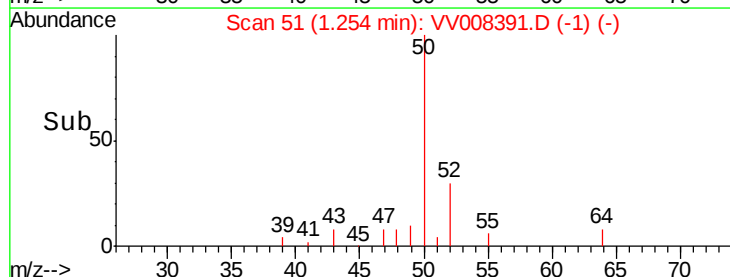
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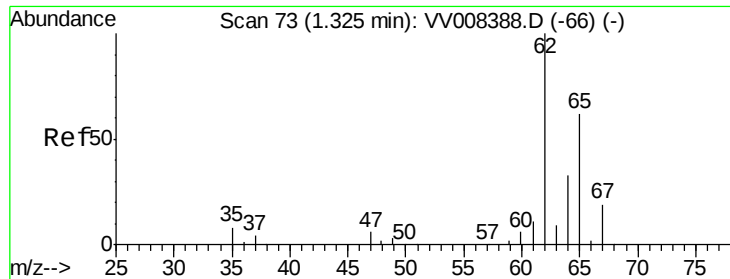
500

0

1.22 1.24 1.26 1.28

Time-->





#5

Vinyl chloride

Concen: 1.891 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

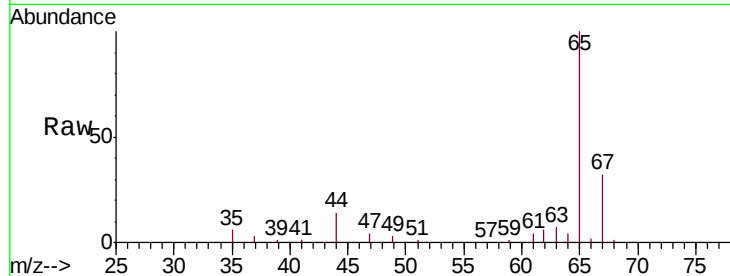
MDL02

Tgt Ion: 62 Resp: 2579

Ion Ratio Lower Upper

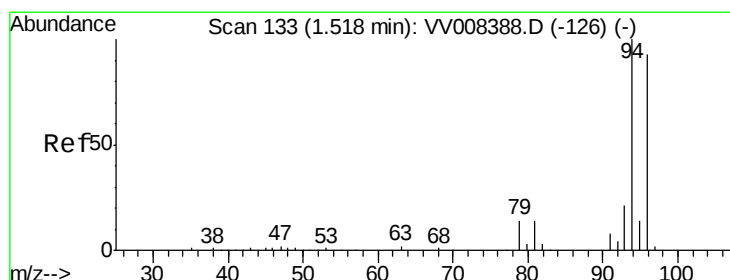
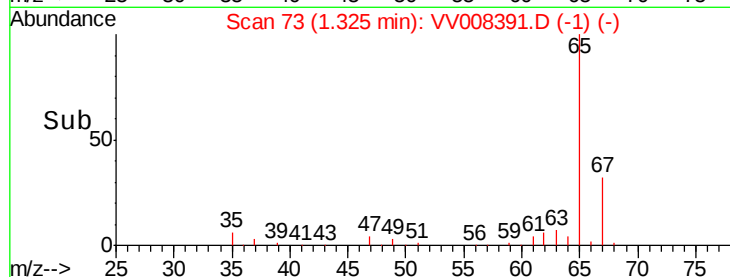
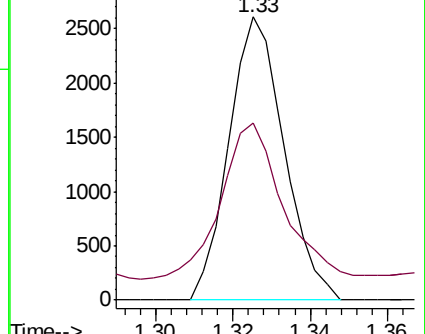
62 100

64 62.4 24.4 45.4#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.279 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV008391.D

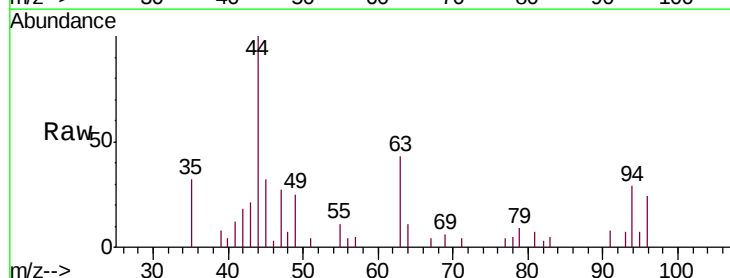
Acq: 24 Oct 2018 14:40

Tgt Ion: 94 Resp: 853

Ion Ratio Lower Upper

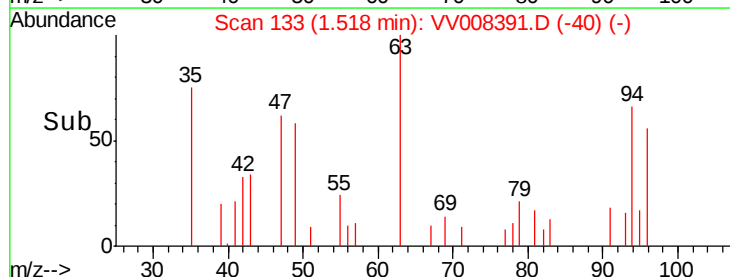
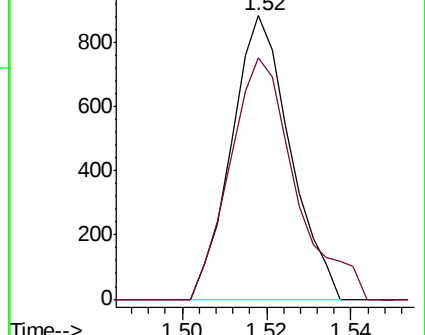
94 100

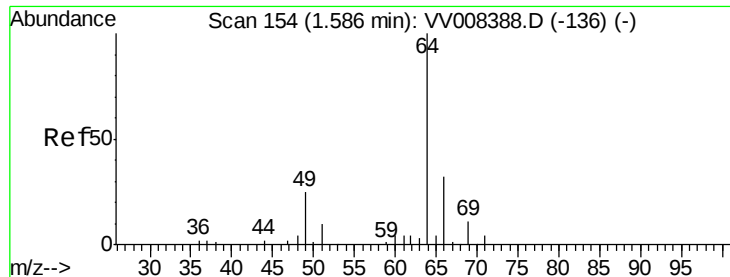
96 85.1 63.8 118.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.220 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

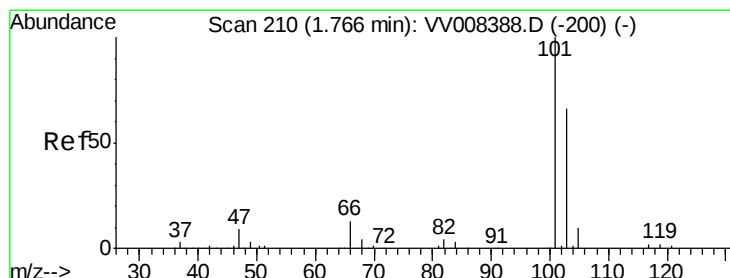
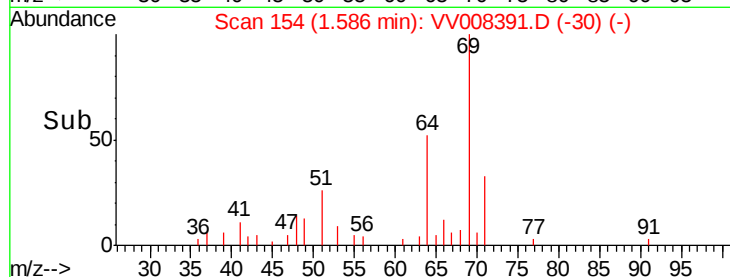
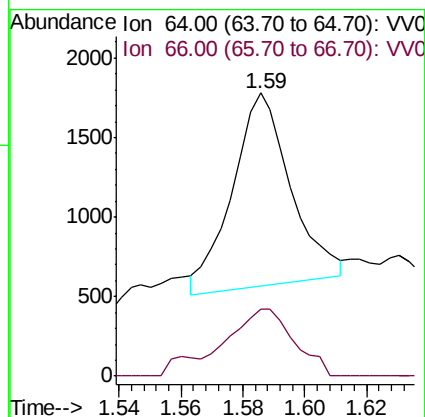
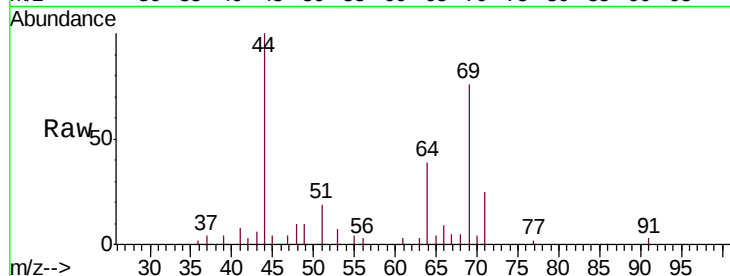
MDL02

Tgt Ion: 64 Resp: 1591

Ion Ratio Lower Upper

64 100

66 23.7 19.9 36.9



#9

Trichlorofluoromethane

Concen: 1.758 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV008391.D

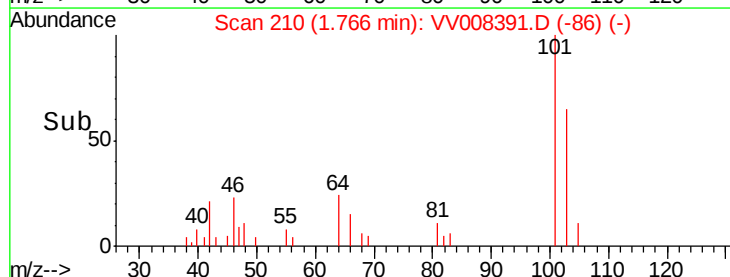
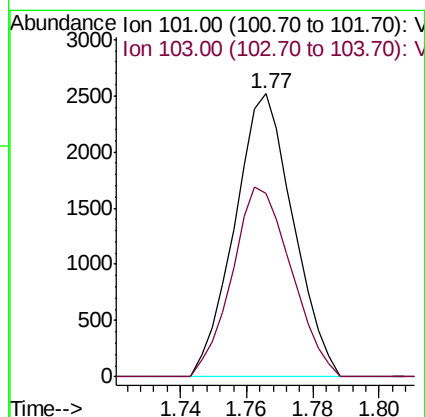
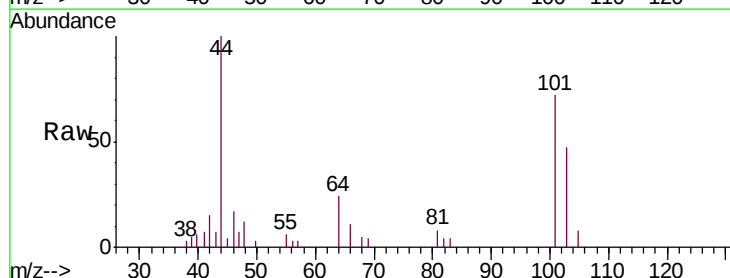
Acq: 24 Oct 2018 14:40

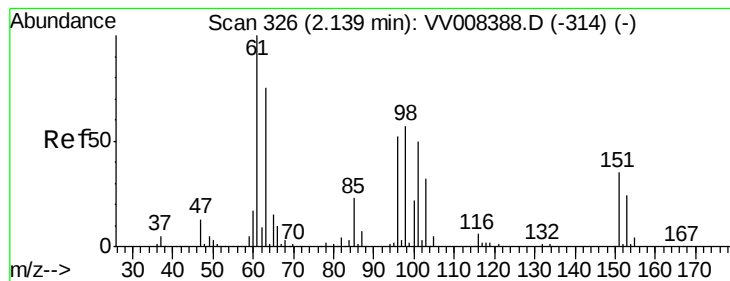
Tgt Ion: 101 Resp: 3086

Ion Ratio Lower Upper

101 100

103 67.8 51.0 76.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.369 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

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ClientSampleId :

MDL02

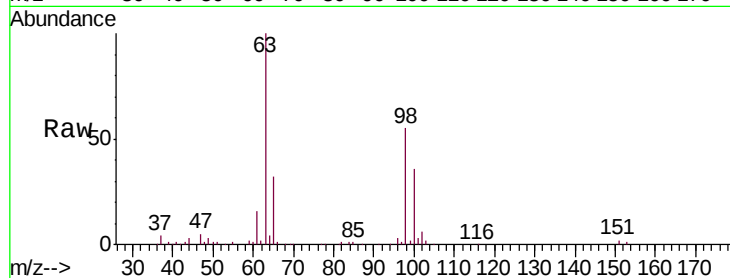
Tgt Ion:101 Resp: 2172

Ion Ratio Lower Upper

101 100

85 38.8 35.6 53.4

151 53.5 58.1 87.1#



Abundance Ion 101.00 (100.70 to 101.70): VV008388.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV008388.D (-314) (-)

Ion 151.00 (150.70 to 151.70): VV008388.D (-314) (-)

Time-->

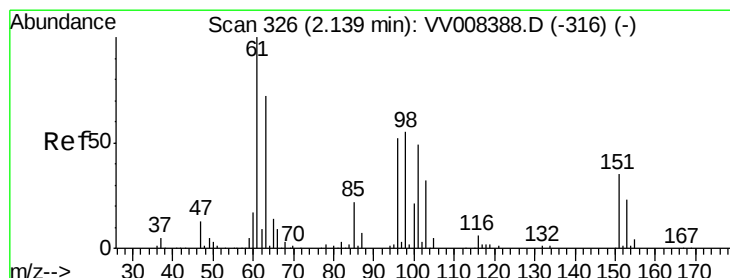
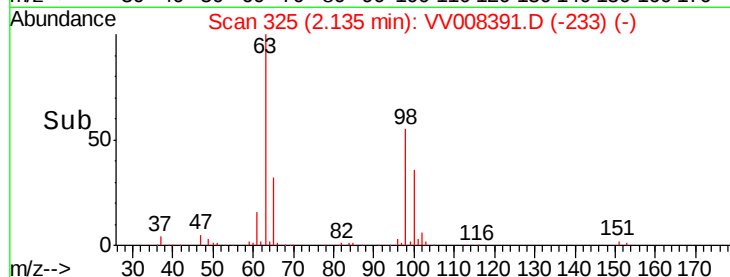
2.14

1000

500

0

2.10 2.15



#12

1,1-Dichloroethene

Concen: 2.635 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

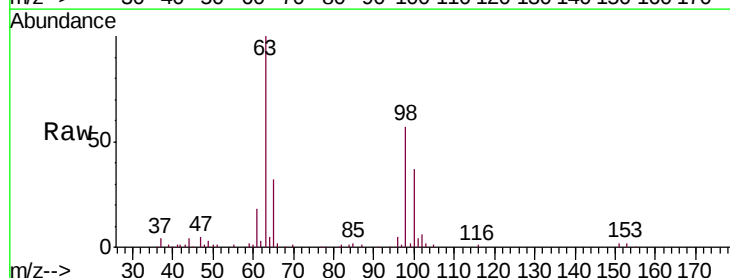
Tgt Ion: 96 Resp: 2275

Ion Ratio Lower Upper

96 100

61 378.6 130.3 242.1#

63 2060.7 84.4 156.8#



Abundance Ion 96.00 (95.70 to 96.70): VV008388.D (-316) (-)

Ion 61.00 (60.70 to 61.70): VV008388.D (-316) (-)

Ion 63.00 (62.70 to 63.70): VV008388.D (-316) (-)

Time-->

2.14

60000

50000

40000

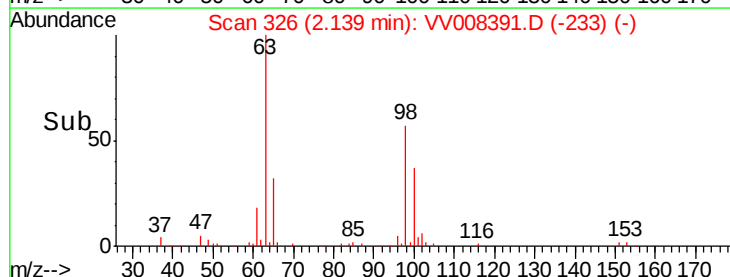
30000

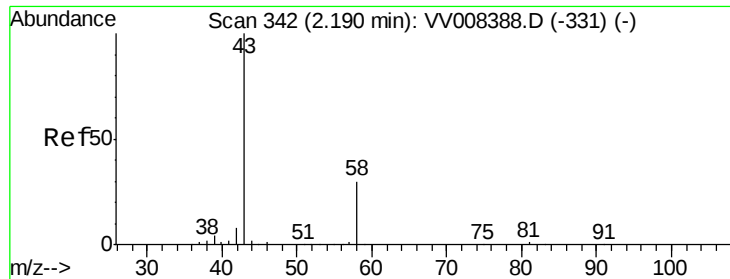
20000

10000

0

2.10 2.15





#13

Acetone

Concen: 4.000 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

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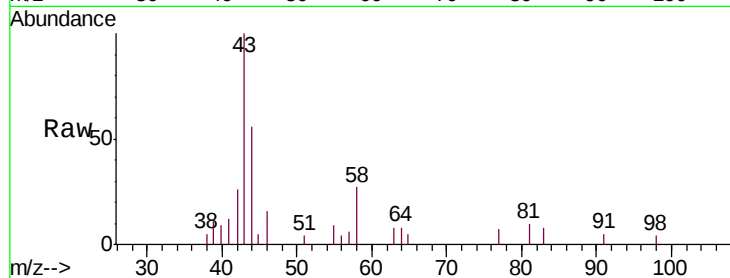
MDL02

Tgt Ion: 43 Resp: 3595

Ion Ratio Lower Upper

43 100

58 28.6 0.0 61.4



Abundance Ion 43.00 (42.70 to 43.70): VV008388.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV008388.D (-331) (-)

2500

2000

1500

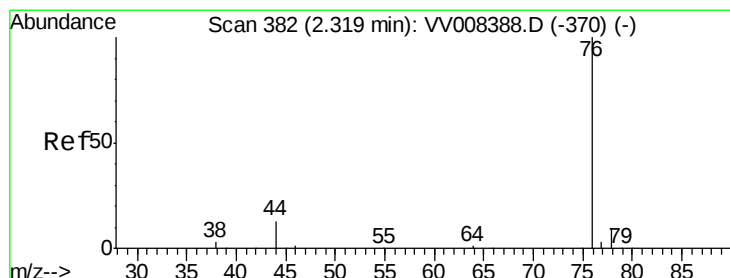
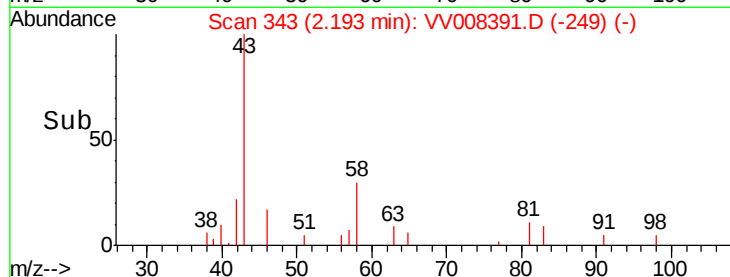
1000

500

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 1.842 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008391.D

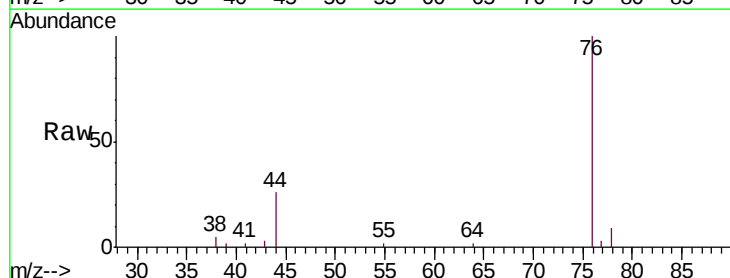
Acq: 24 Oct 2018 14:40

Tgt Ion: 76 Resp: 7161

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV008388.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV008388.D (-370) (-)

6000

5000

4000

3000

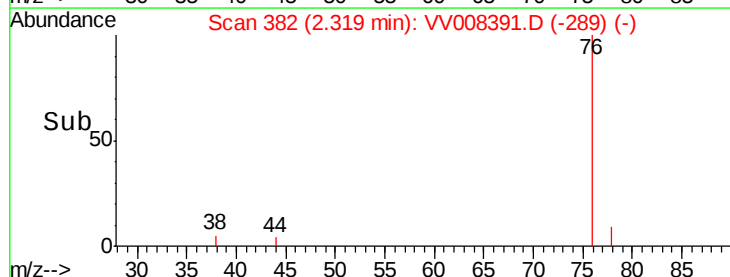
2000

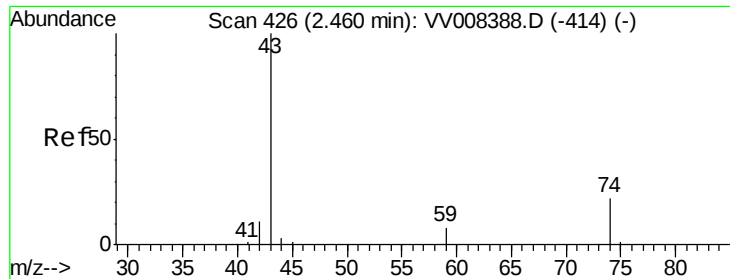
1000

0

2.30 2.35

Time-->

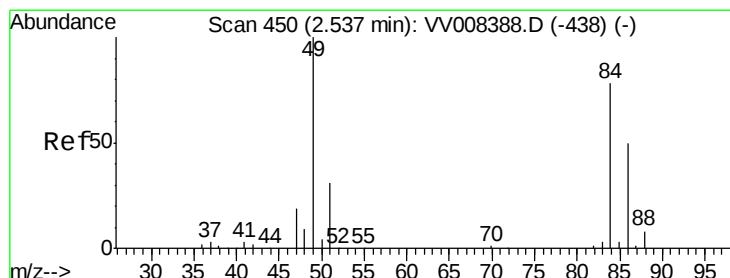
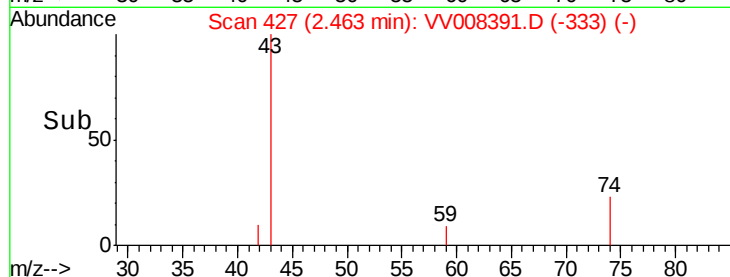
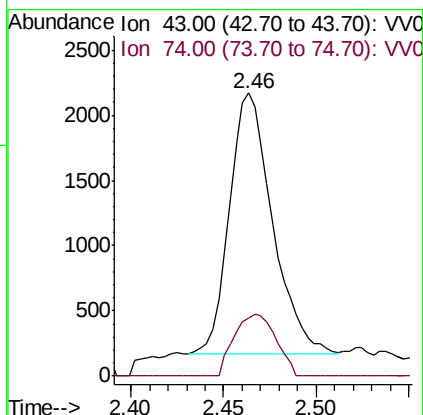
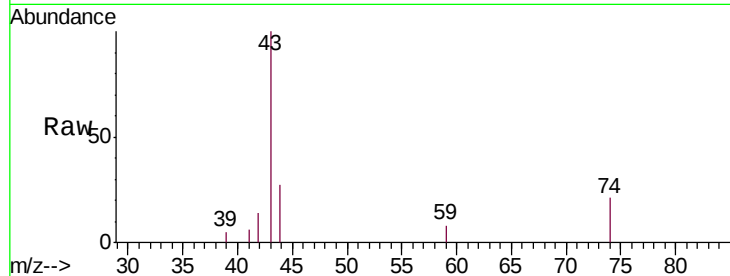




#15  
Methyl Acetate  
Concen: 1.787 ug/L  
RT: 2.46 min Scan# 427  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

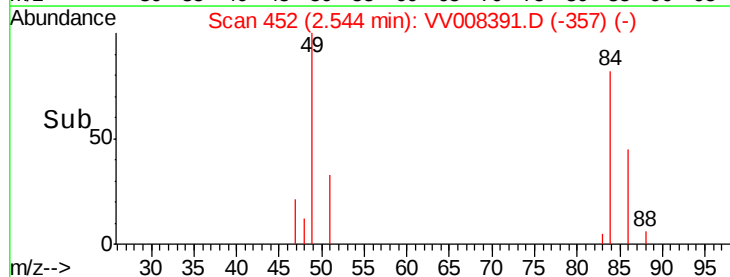
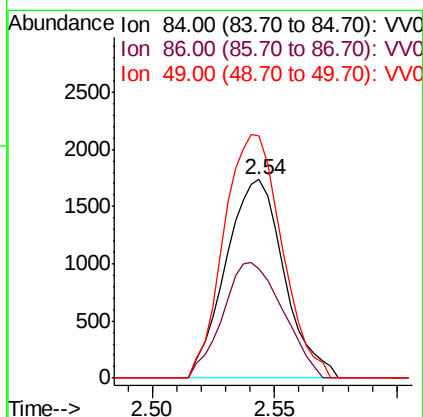
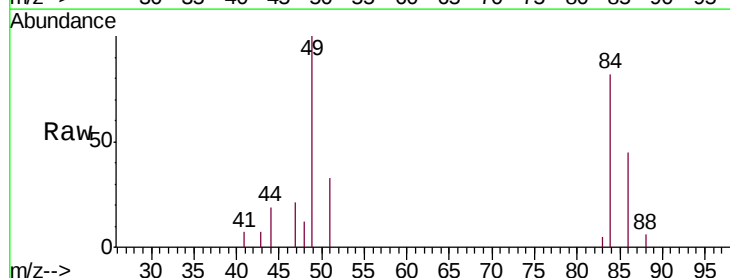
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL02

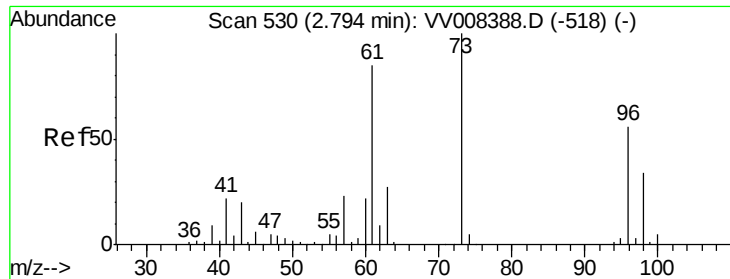
Tgt Ion: 43 Resp: 3203  
Ion Ratio Lower Upper  
43 100  
74 23.1 17.8 26.6



#16  
Methylene chloride  
Concen: 1.933 ug/L  
RT: 2.54 min Scan# 452  
Delta R.T. 0.01 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Tgt Ion: 84 Resp: 2891  
Ion Ratio Lower Upper  
84 100  
86 54.9 45.6 84.6  
49 121.6 90.6 168.3

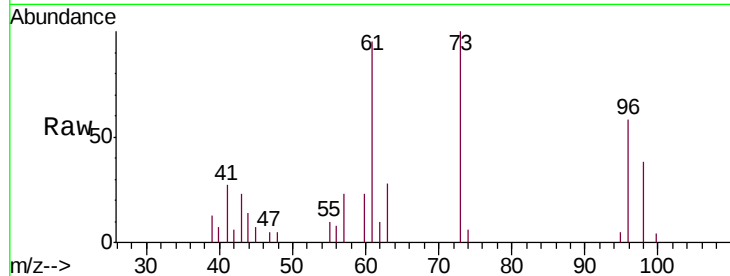




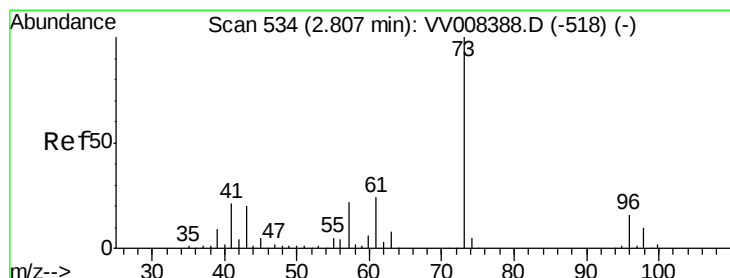
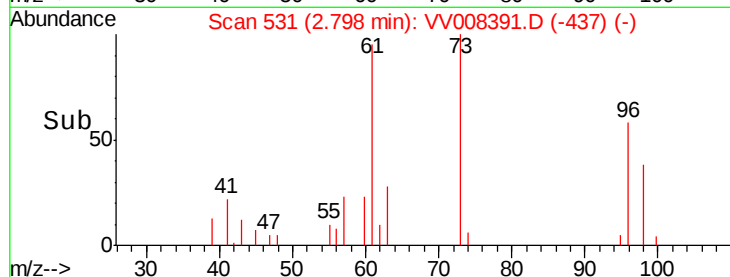
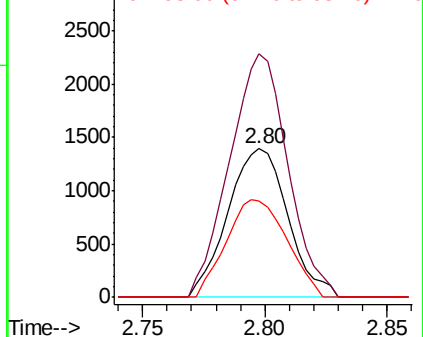
#17  
 trans-1,2-Dichloroethene  
 Concen: 1.809 ug/L  
 RT: 2.80 min Scan# 531  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL02

Tgt Ion: 96 Resp: 2381  
 Ion Ratio Lower Upper  
 96 100  
 61 163.8 108.6 201.6  
 98 65.0 44.3 82.3

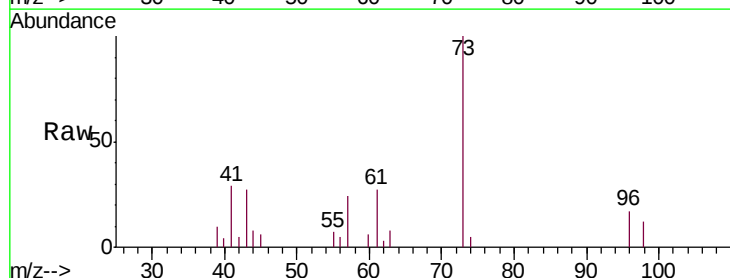


Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 98.00 (97.70 to 98.70): VV0

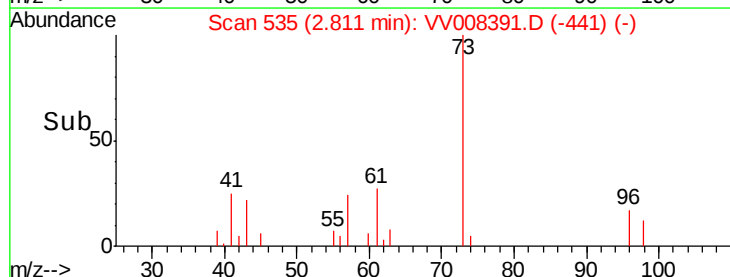
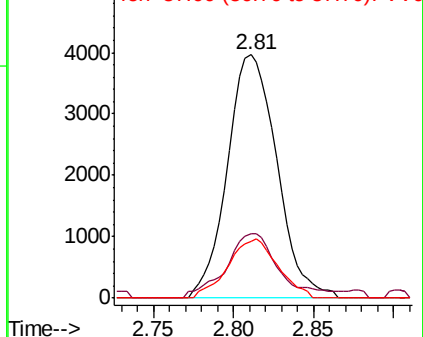


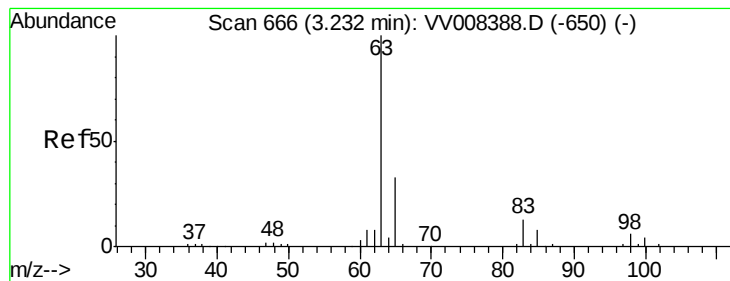
#18  
 Methyl tert-butyl Ether  
 Concen: 1.781 ug/L  
 RT: 2.81 min Scan# 535  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Tgt Ion: 73 Resp: 8390  
 Ion Ratio Lower Upper  
 73 100  
 43 28.4 16.2 24.4#  
 57 24.4 18.2 27.2



Abundance Ion 73.00 (72.70 to 73.70): VV0  
 Ion 43.00 (42.70 to 43.70): VV0  
 Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 1.774 ug/L

RT: 3.24 min Scan# 667

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

MDL02

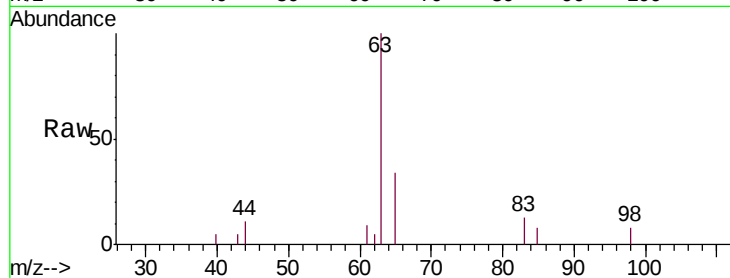
Tgt Ion: 63 Resp: 4814

Ion Ratio Lower Upper

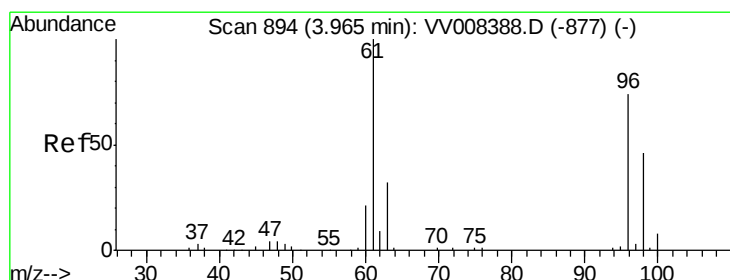
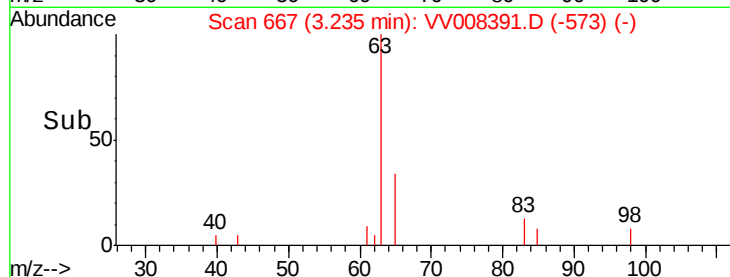
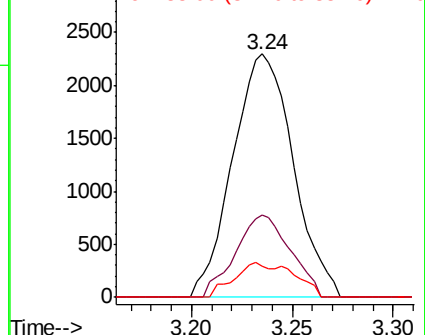
63 100

65 34.0 22.0 40.8

83 12.8 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 65.00 (64.70 to 65.70): VV0  
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 1.920 ug/L

RT: 3.97 min Scan# 896

Delta R.T. 0.01 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

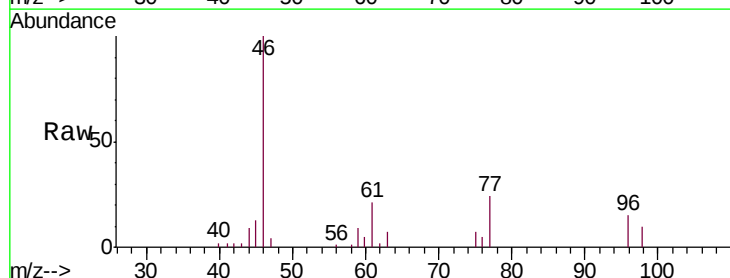
Tgt Ion: 96 Resp: 2879

Ion Ratio Lower Upper

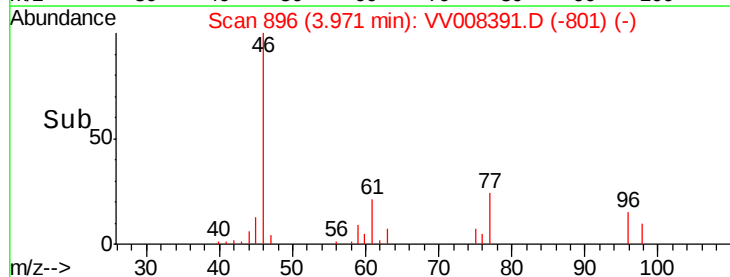
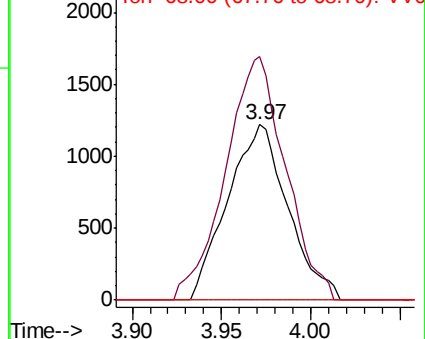
96 100

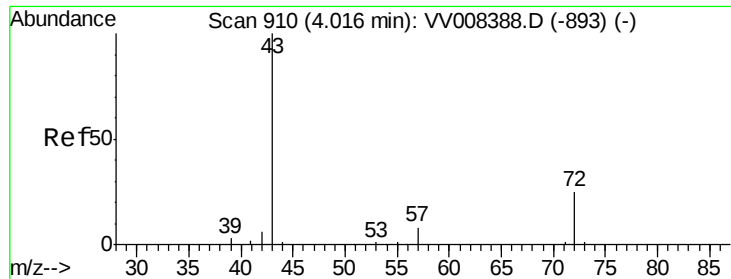
61 138.8 100.9 187.5

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 3.287 ug/L

RT: 4.03 min Scan# 915

Delta R.T. 0.02 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

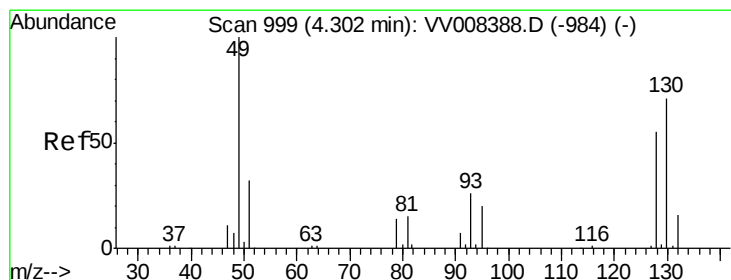
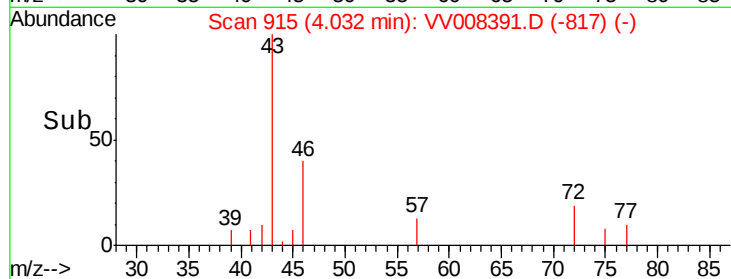
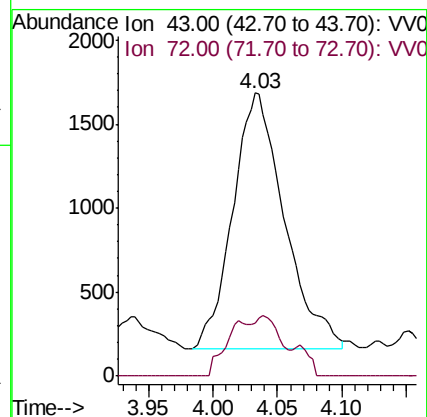
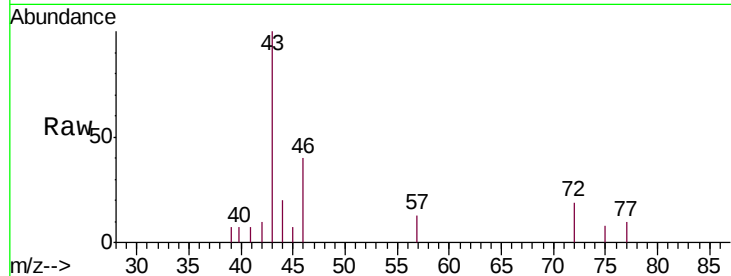
MDL02

Tgt Ion: 43 Resp: 4267

Ion Ratio Lower Upper

43 100

72 9.2 13.0 38.9#



#23

Bromochloromethane

Concen: 0.849 ug/L

RT: 4.30 min Scan# 998

Delta R.T. -0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Tgt Ion: 128 Resp: 600

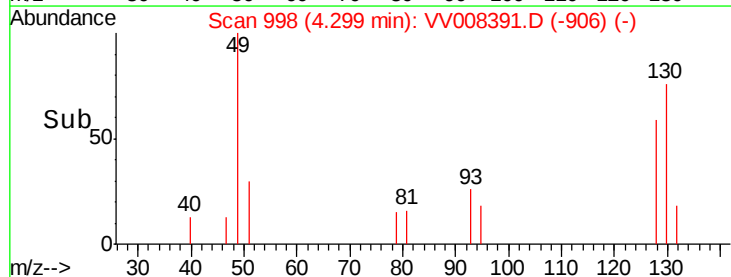
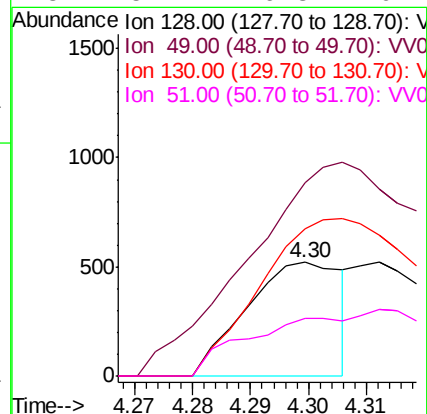
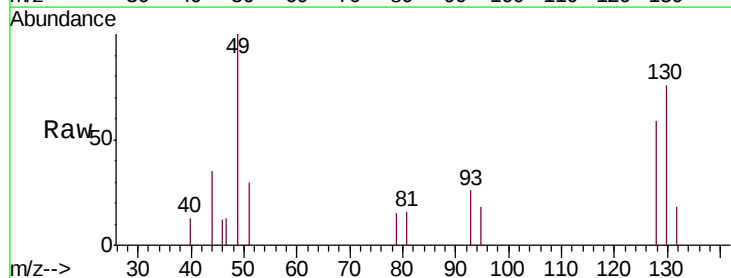
Ion Ratio Lower Upper

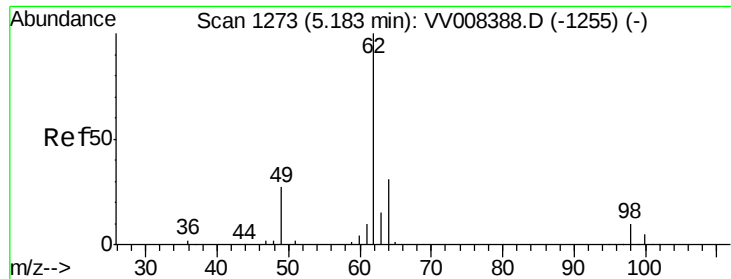
128 100

49 170.4 128.0 237.8

130 129.4 89.2 165.8

51 51.2 46.8 70.2

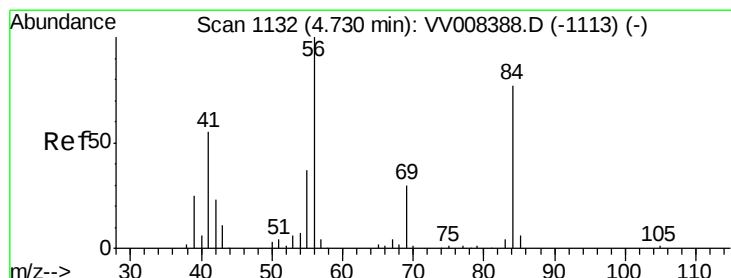
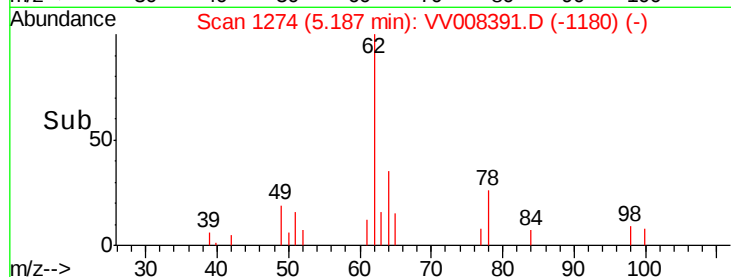
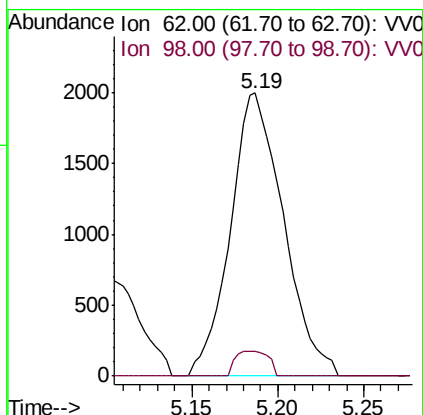
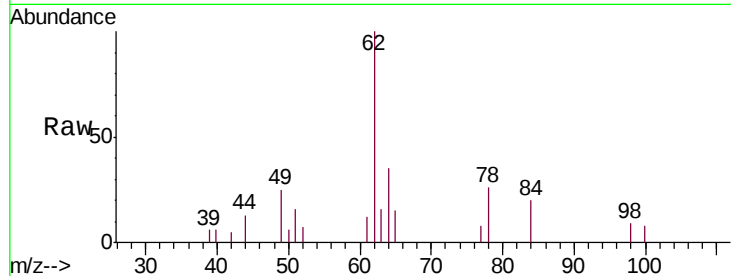




#27  
 1,2-Dichloroethane  
 Concen: 1.942 ug/L  
 RT: 5.19 min Scan# 1274  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

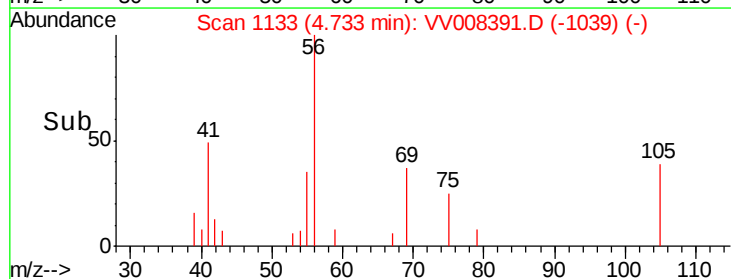
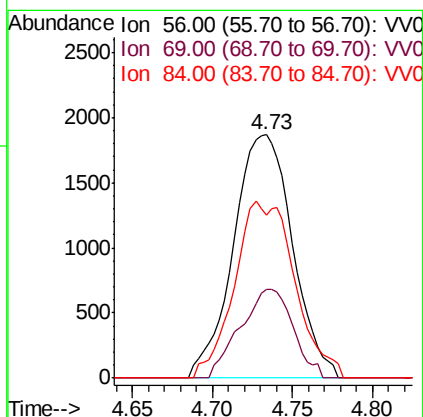
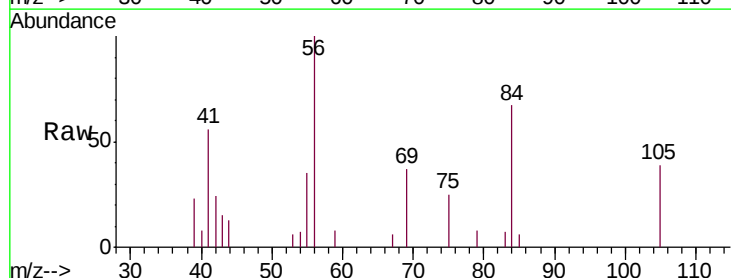
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL02

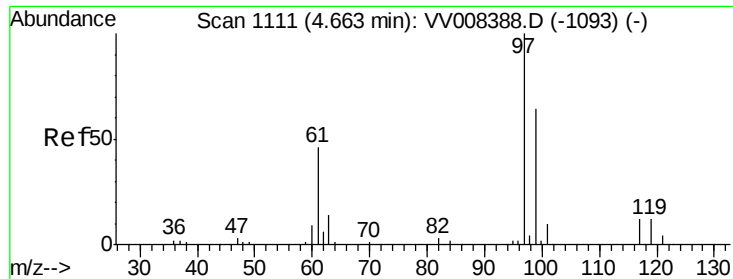
Tgt Ion: 62 Resp: 4298  
 Ion Ratio Lower Upper  
 62 100  
 98 8.7 6.6 9.8



#29  
 Cyclohexane  
 Concen: 1.876 ug/L  
 RT: 4.73 min Scan# 1133  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Tgt Ion: 56 Resp: 4738  
 Ion Ratio Lower Upper  
 56 100  
 69 32.1 24.6 37.0  
 84 40.0 65.0 97.4#

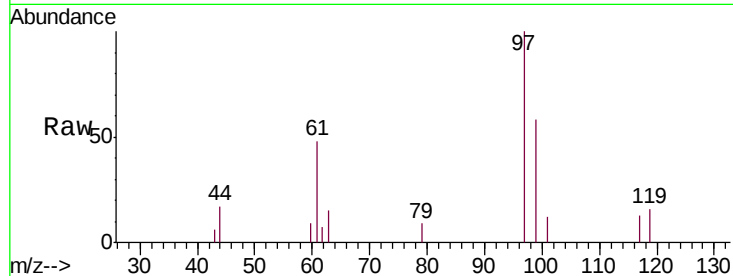




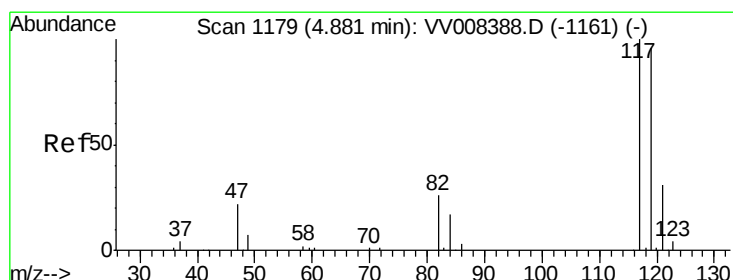
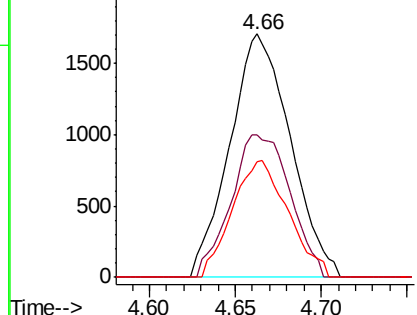
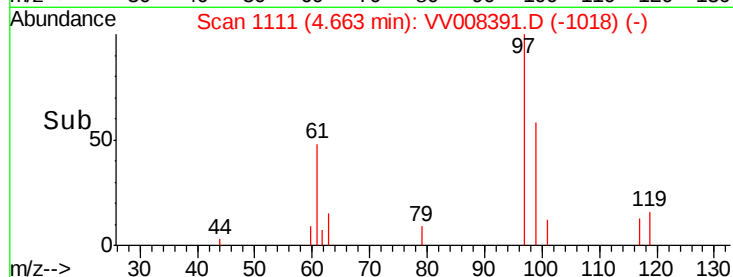
#30  
 1,1,1-Trichloroethane  
 Concen: 1.859 ug/L  
 RT: 4.66 min Scan# 1111  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL02

Tgt Ion: 97 Resp: 4181  
 Ion Ratio Lower Upper  
 97 100  
 99 57.1 51.6 77.4  
 61 44.2 36.5 54.7

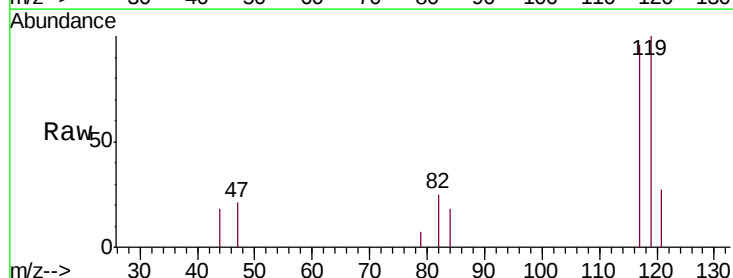


Abundance Ion 97.00 (96.70 to 97.70): VV008391.D (-1018) (-)  
 Ion 99.00 (98.70 to 99.70): VV008391.D (-1018) (-)  
 Ion 61.05 (60.75 to 61.75): VV008391.D (-1018) (-)

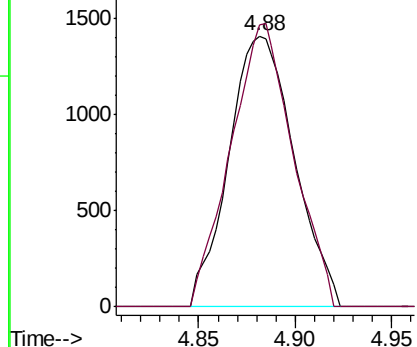
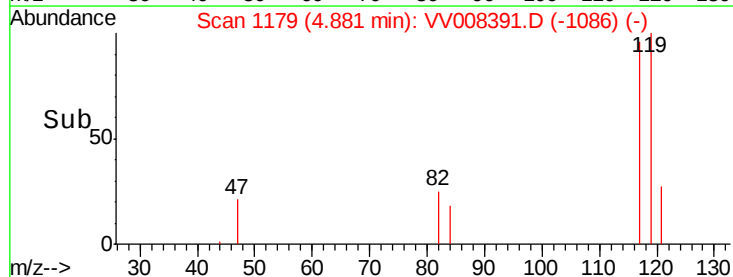


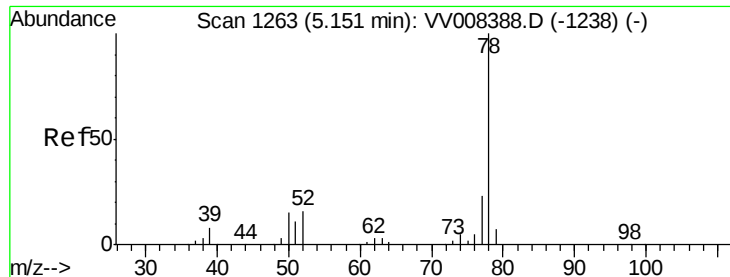
#31  
 Carbon tetrachloride  
 Concen: 1.737 ug/L  
 RT: 4.88 min Scan# 1179  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Tgt Ion: 117 Resp: 3316  
 Ion Ratio Lower Upper  
 117 100  
 119 99.5 75.8 113.8



Abundance Ion 117.00 (116.70 to 117.70): VV008391.D (-1086) (-)  
 Ion 119.00 (118.70 to 119.70): VV008391.D (-1086) (-)





#33

Benzene

Concen: 1.859 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

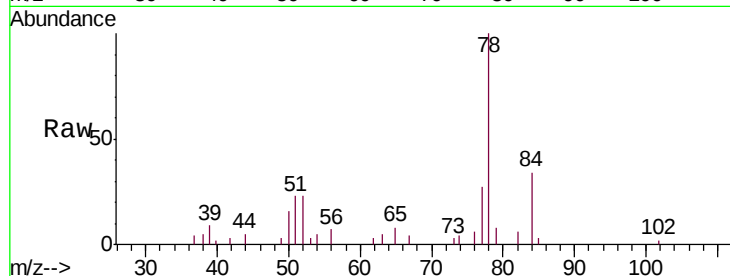
Instrument :

MSVOA\_V

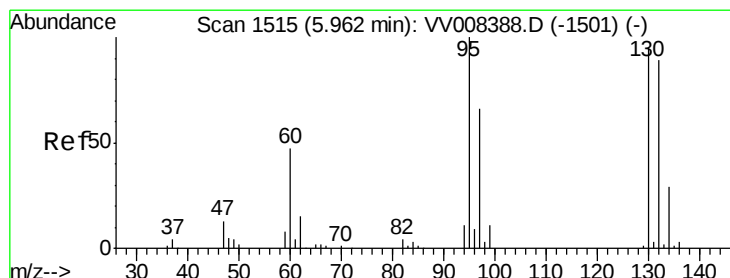
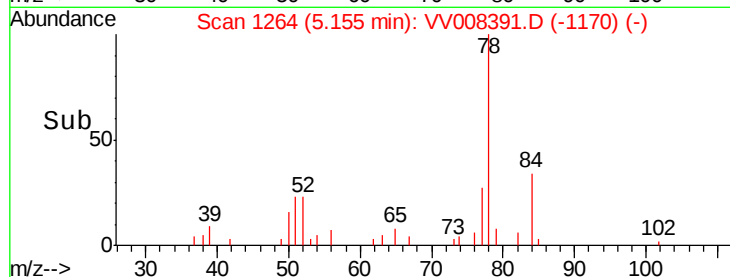
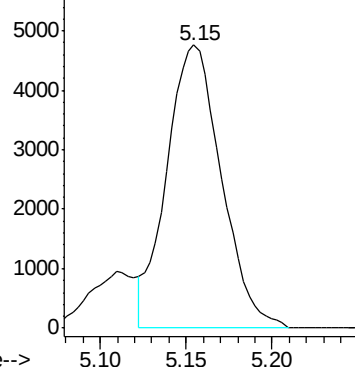
ClientSampleId :

MDL02

Tgt Ion: 78 Resp: 10538



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 1.917 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Tgt Ion: 95 Resp: 2783

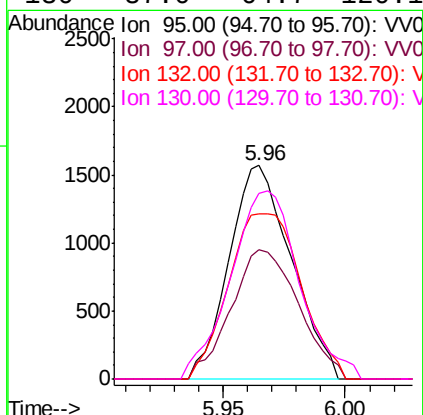
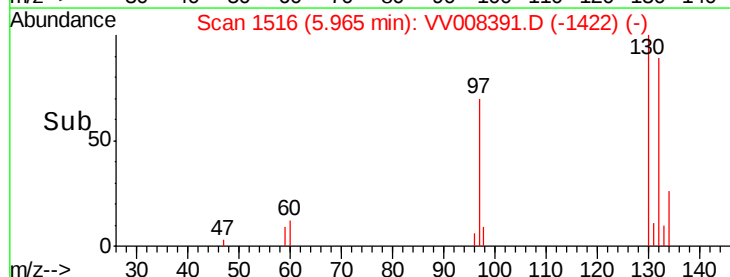
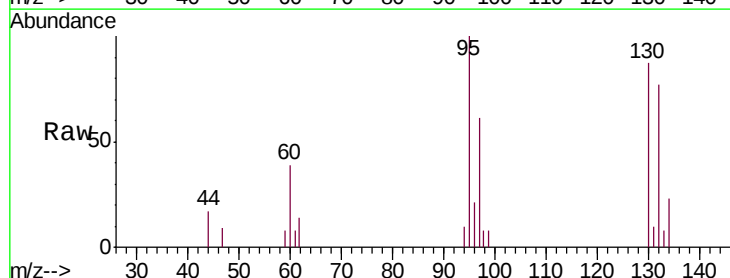
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 60.8  | 45.2  | 84.0  |
| 132 | 77.5  | 63.8  | 118.6 |
| 130 | 87.0  | 64.7  | 120.1 |

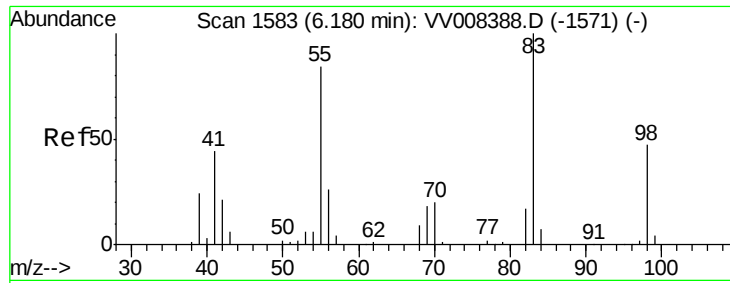
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

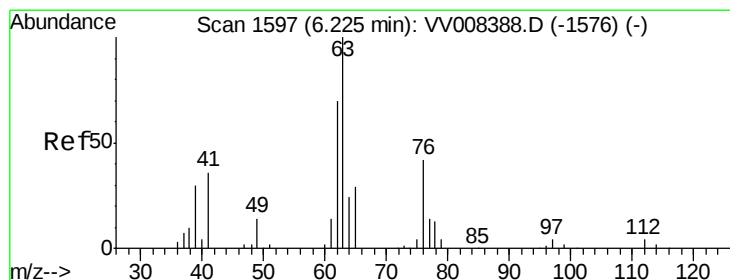
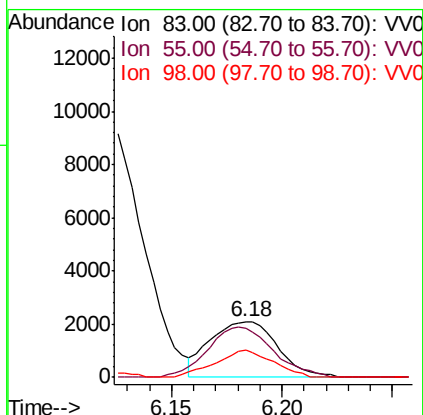
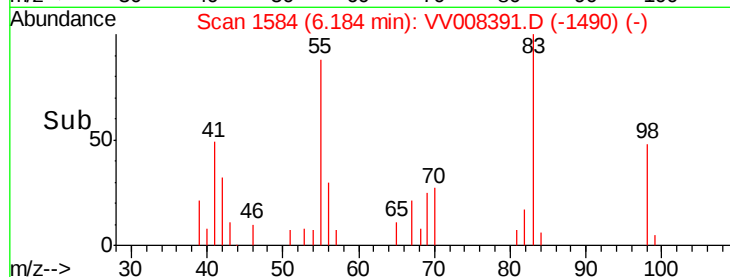
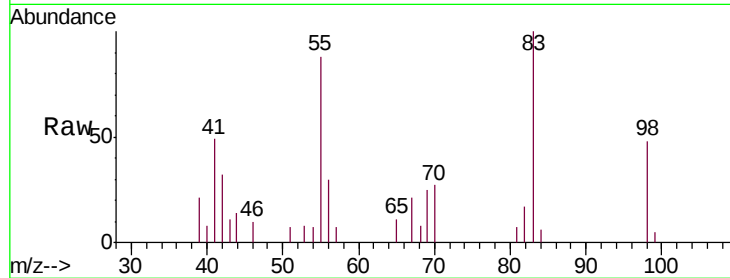




#35  
Methylcyclohexane  
Concen: 1.801 ug/L  
RT: 6.18 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

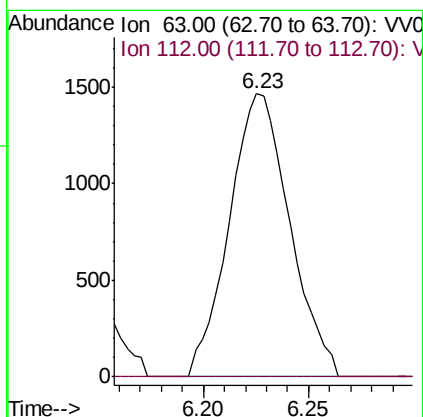
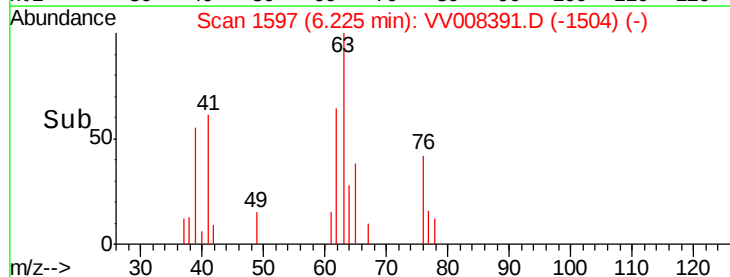
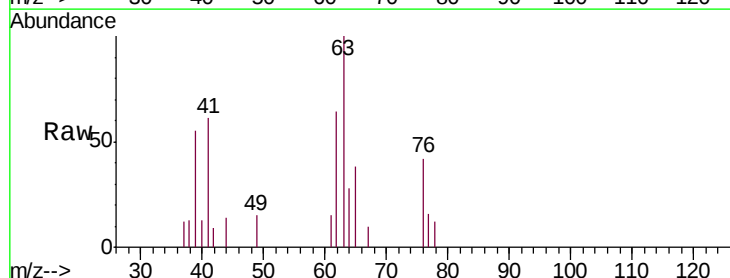
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL02

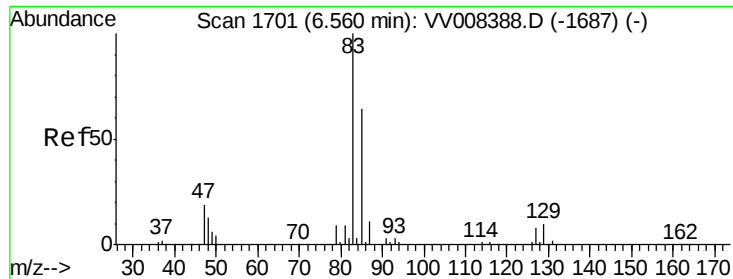
Tgt Ion: 83 Resp: 4443  
Ion Ratio Lower Upper  
83 100  
55 87.8 65.0 97.4  
98 41.8 36.0 54.0



#37  
1,2-Dichloropropane  
Concen: 1.866 ug/L  
RT: 6.23 min Scan# 1597  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Tgt Ion: 63 Resp: 2922  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3#

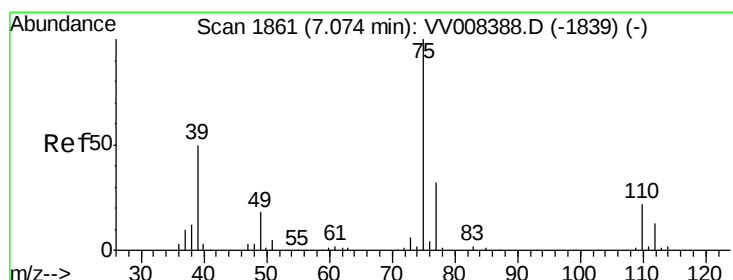
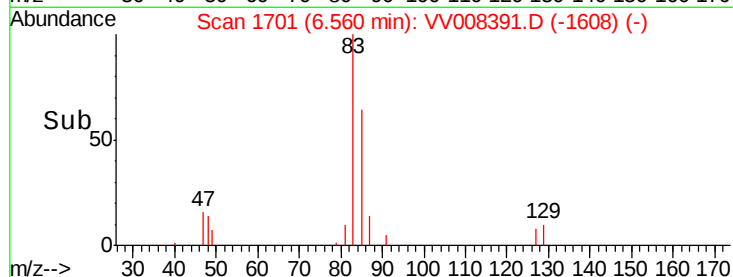
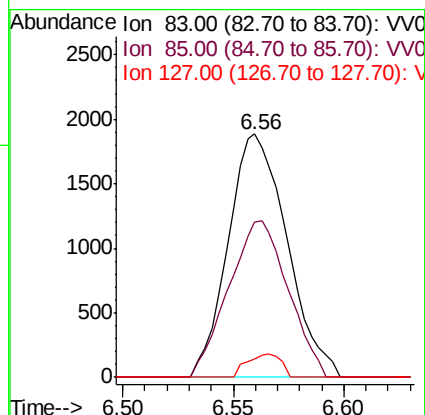
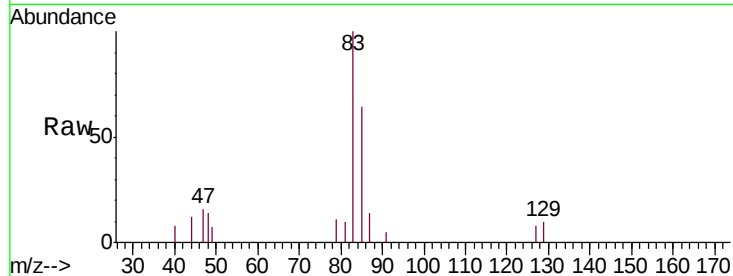




#38  
 Bromodichloromethane  
 Concen: 1.746 ug/L  
 RT: 6.56 min Scan# 1701  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

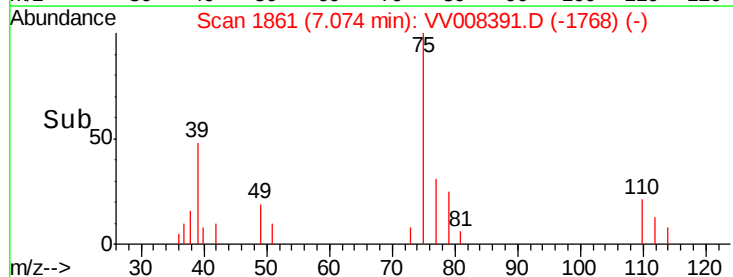
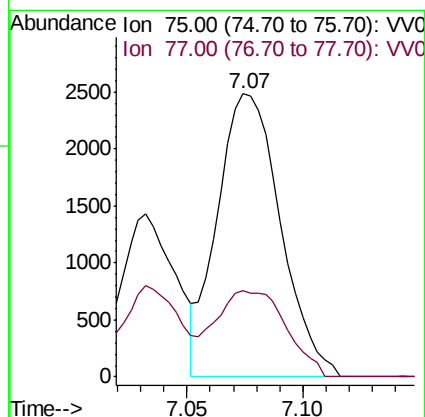
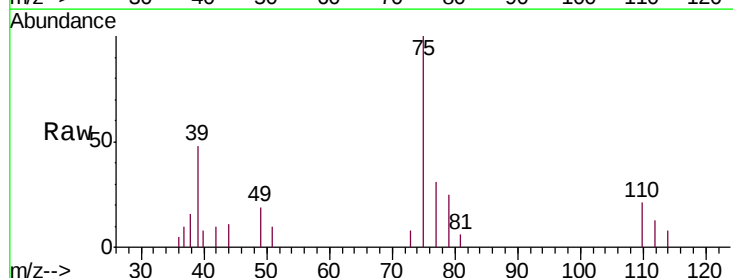
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL02

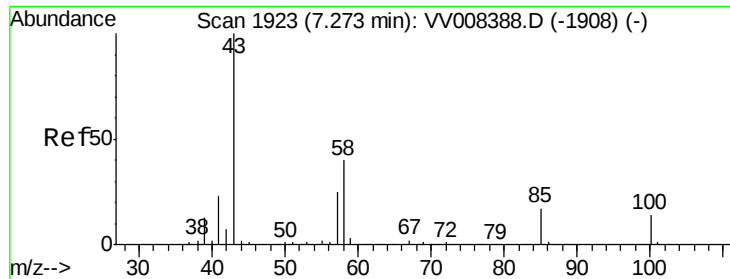
Tgt Ion: 83 Resp: 3484  
 Ion Ratio Lower Upper  
 83 100  
 85 64.0 44.3 82.3  
 127 7.6 6.3 9.5



#39  
 cis-1,3-Dichloropropene  
 Concen: 1.914 ug/L  
 RT: 7.07 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Tgt Ion: 75 Resp: 4711  
 Ion Ratio Lower Upper  
 75 100  
 77 30.6 22.6 42.0

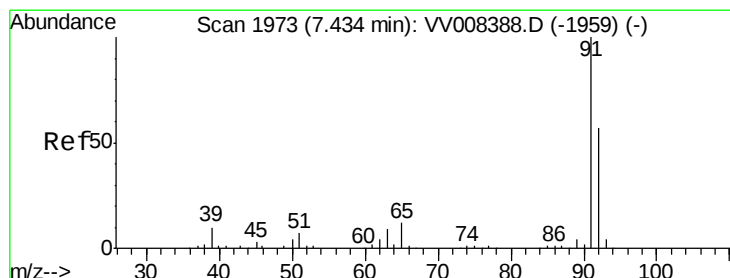
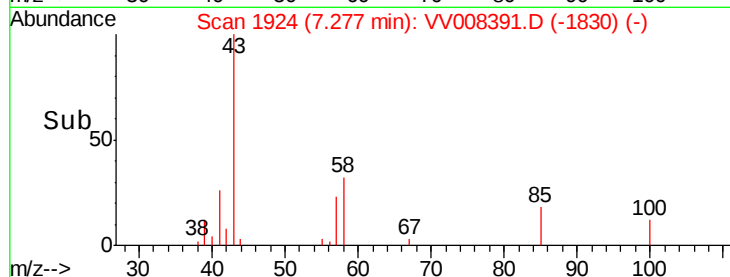
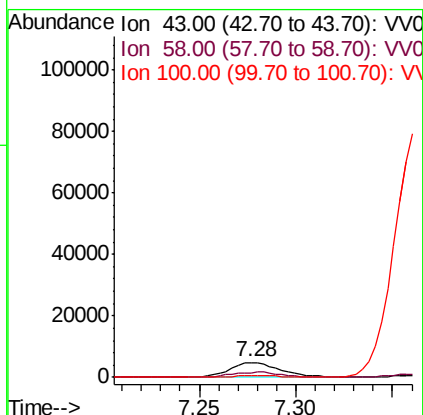
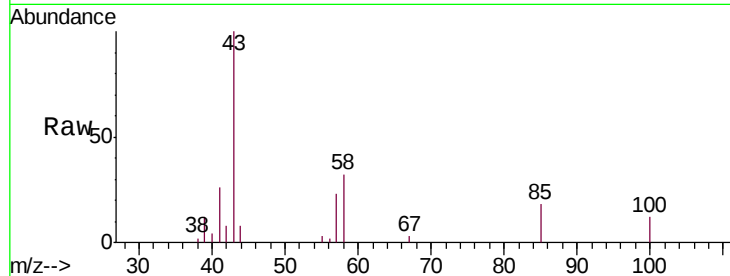




#40  
4-Methyl-2-pentanone  
Concen: 3.785 ug/L  
RT: 7.28 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

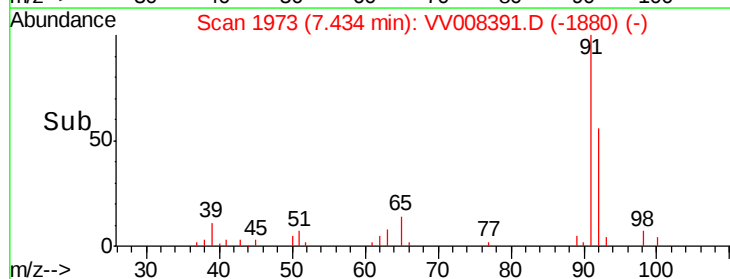
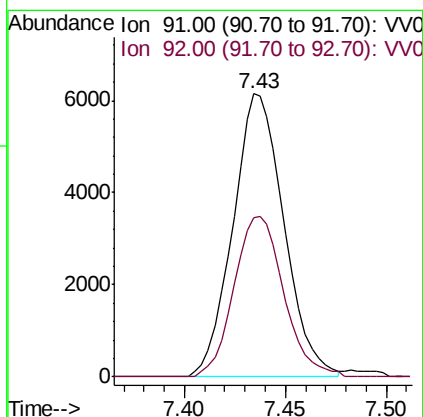
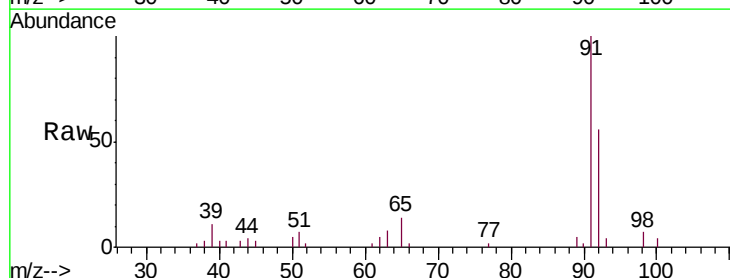
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL02

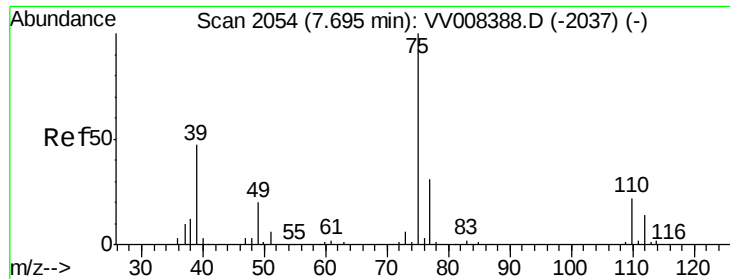
Tgt Ion: 43 Resp: 8775  
Ion Ratio Lower Upper  
43 100  
58 34.8 30.9 46.3  
100 11.6 10.9 16.3



#42  
Toluene  
Concen: 1.849 ug/L  
RT: 7.43 min Scan# 1973  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Tgt Ion: 91 Resp: 10889  
Ion Ratio Lower Upper  
91 100  
92 56.3 39.5 73.4





#44

trans-1,3-Dichloropropene

Concen: 1.902 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampled :

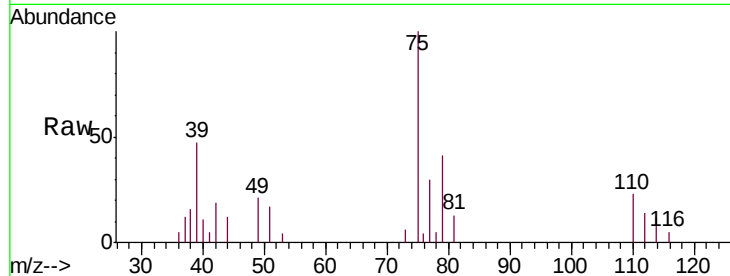
MDL02

Tgt Ion: 75 Resp: 4381

Ion Ratio Lower Upper

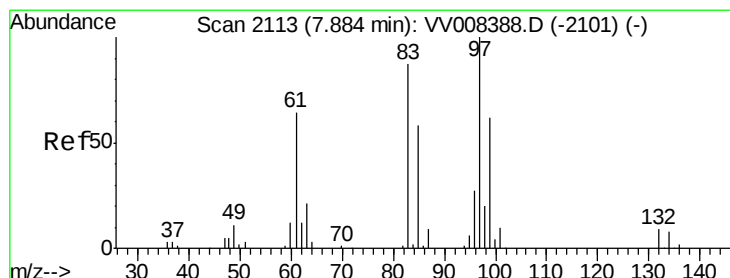
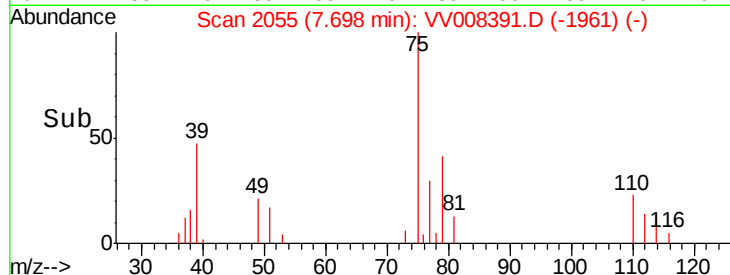
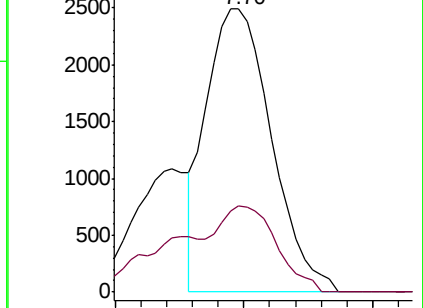
75 100

77 30.3 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV008388.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV008388.D (-2037) (-)



#45

1,1,2-Trichloroethane

Concen: 1.750 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Tgt Ion: 97 Resp: 2423

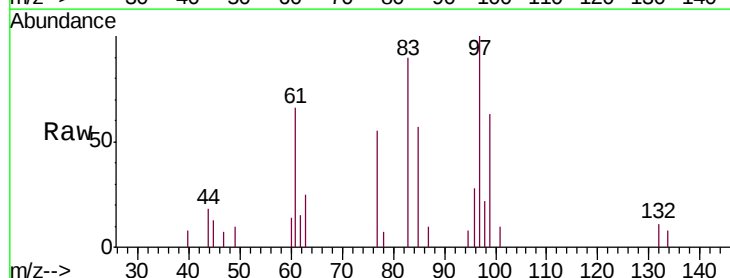
Ion Ratio Lower Upper

97 100

99 63.5 43.3 80.3

83 90.4 61.9 114.9

85 57.2 40.9 75.9

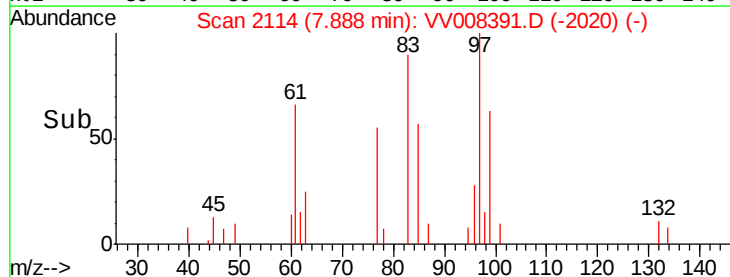
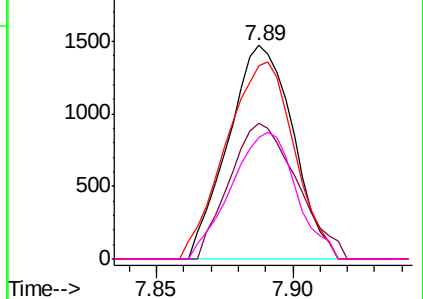


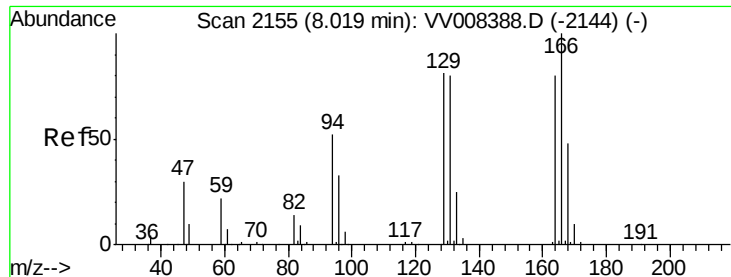
Abundance Ion 97.00 (96.70 to 97.70): VV008388.D (-2101) (-)

Ion 99.00 (98.70 to 99.70): VV008388.D (-2101) (-)

Ion 83.00 (82.70 to 83.70): VV008388.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV008388.D (-2101) (-)

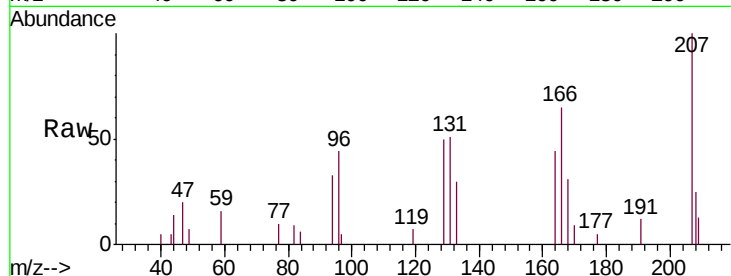




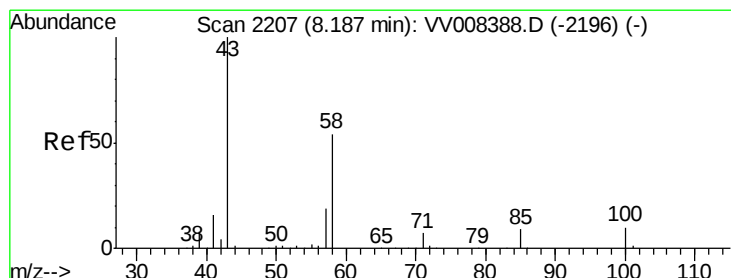
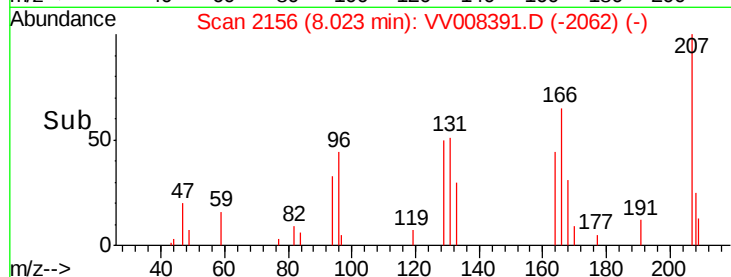
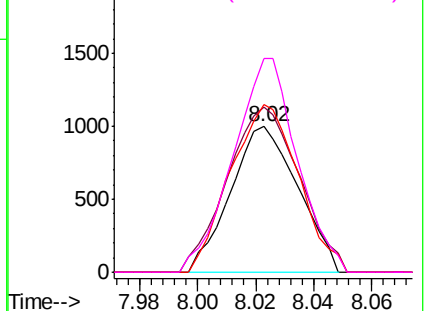
#46  
Tetrachloroethene  
Concen: 1.704 ug/L  
RT: 8.02 min Scan# 2156  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL02

Tgt Ion:164 Resp: 1612  
Ion Ratio Lower Upper  
164 100  
129 113.4 75.0 139.2  
131 115.0 71.3 132.3  
166 146.7 89.2 165.6

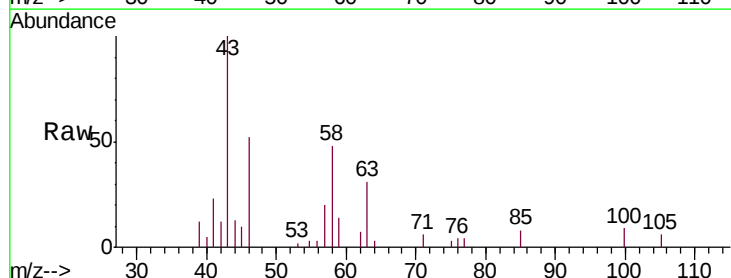


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

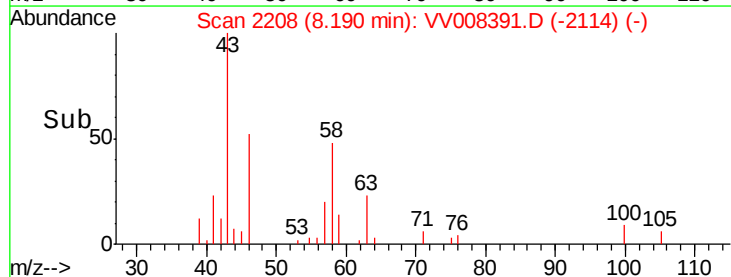
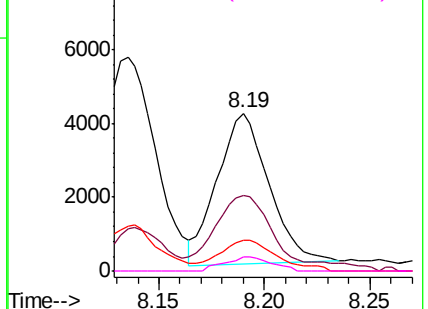


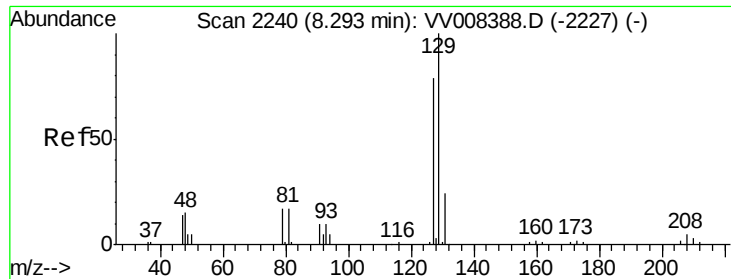
#48  
2-Hexanone  
Concen: 3.897 ug/L  
RT: 8.19 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Tgt Ion: 43 Resp: 6972  
Ion Ratio Lower Upper  
43 100  
58 47.0 42.6 63.8  
57 16.3 14.8 22.2  
100 8.4 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 1.865 ug/L

RT: 8.30 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

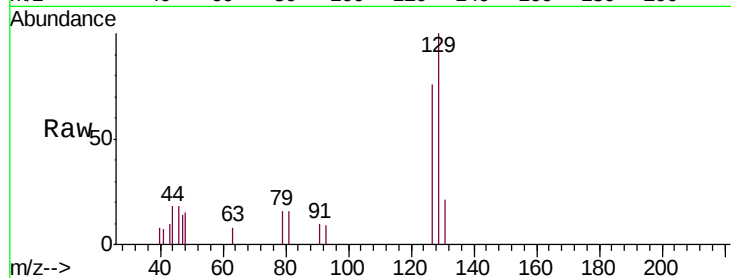
MDL02

Tgt Ion:129 Resp: 2774

Ion Ratio Lower Upper

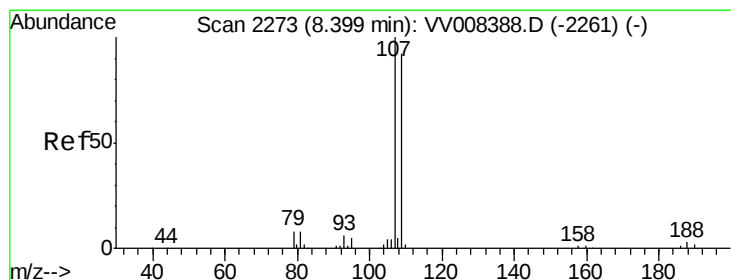
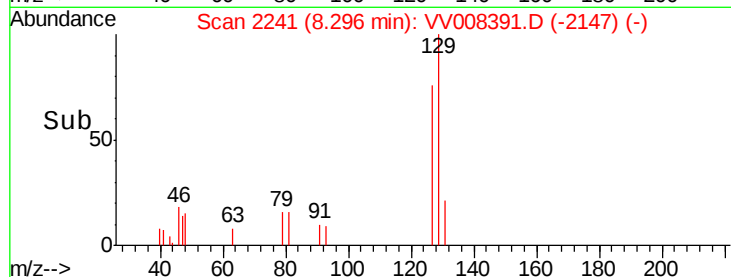
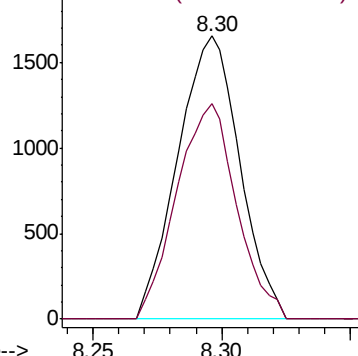
129 100

127 76.2 54.9 101.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 1.801 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

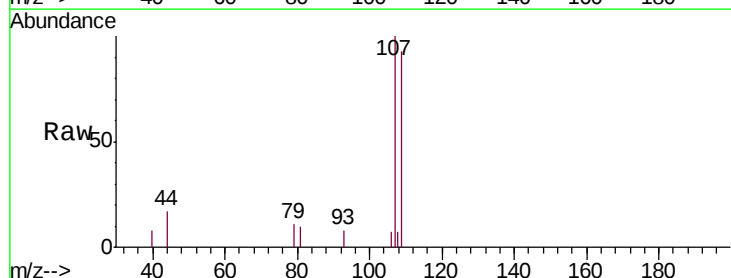
Tgt Ion:107 Resp: 2615

Ion Ratio Lower Upper

107 100

109 93.2 65.2 121.2

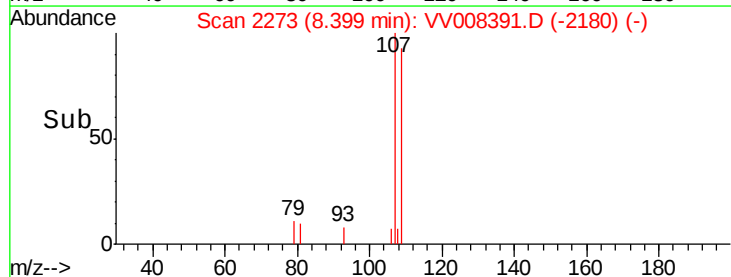
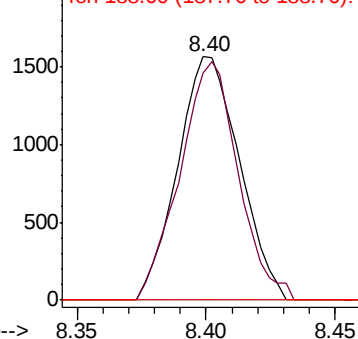
188 0.0 2.3 3.5#

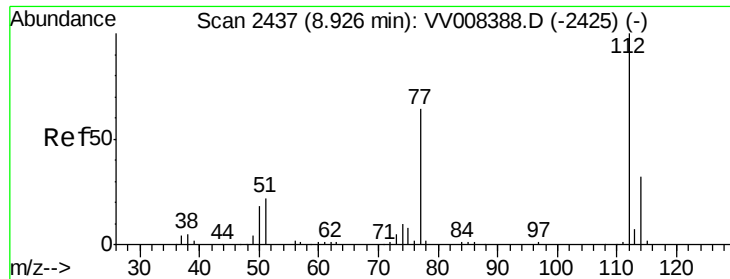


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 1.811 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleID :

MDL02

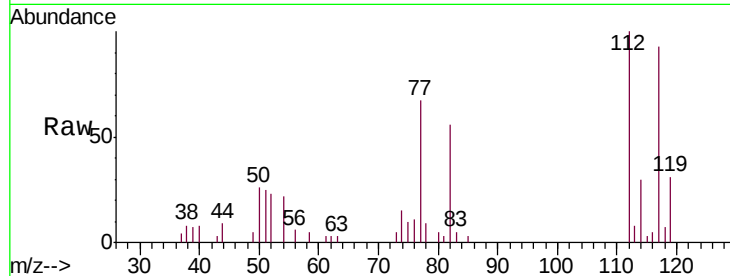
Tgt Ion: 112 Resp: 6566

Ion Ratio Lower Upper

112 100

114 30.1 22.5 41.7

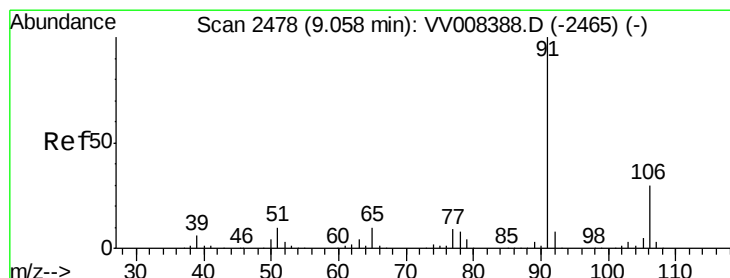
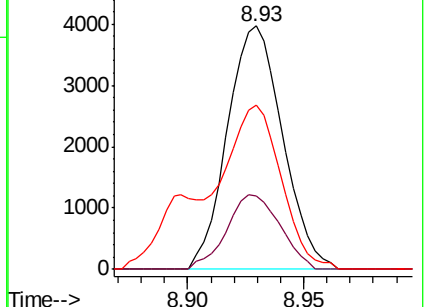
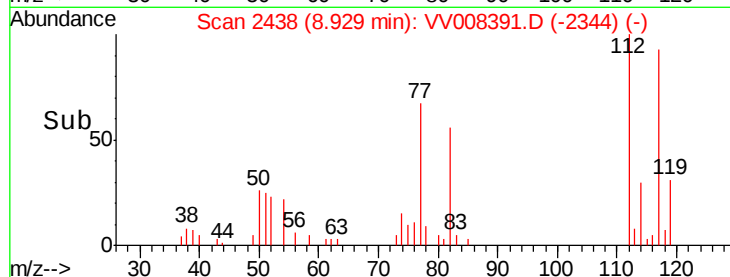
77 67.3 52.0 78.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.762 ug/L

RT: 9.06 min Scan# 2479

Delta R.T. 0.00 min

Lab File: VV008391.D

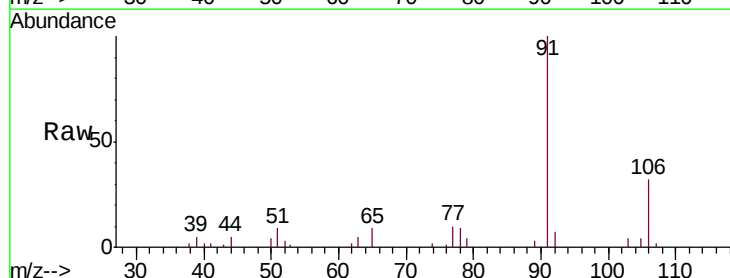
Acq: 24 Oct 2018 14:40

Tgt Ion: 91 Resp: 11620

Ion Ratio Lower Upper

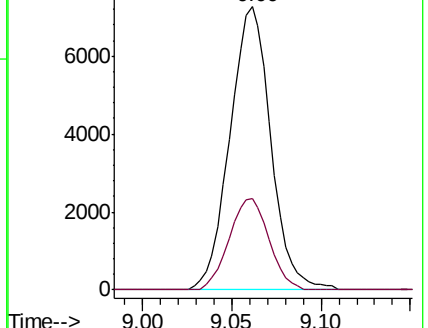
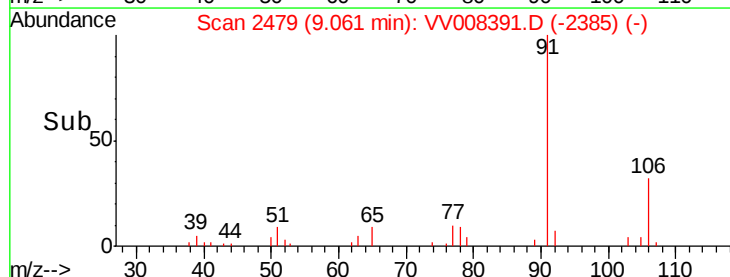
91 100

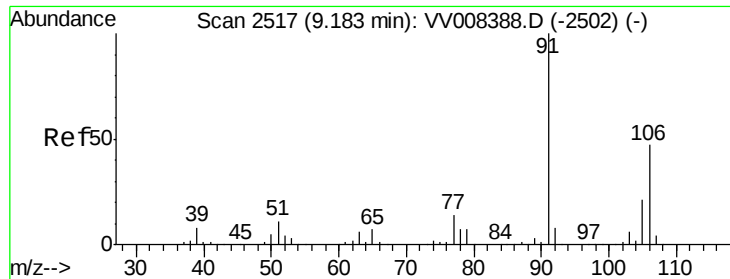
106 32.2 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

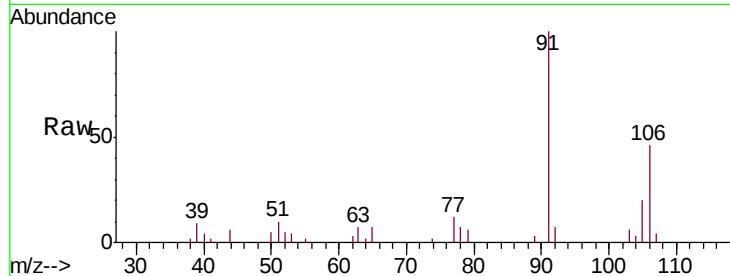




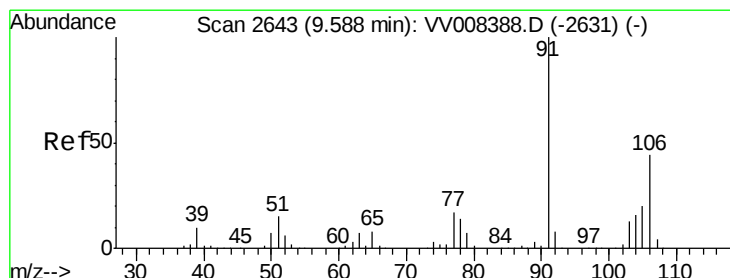
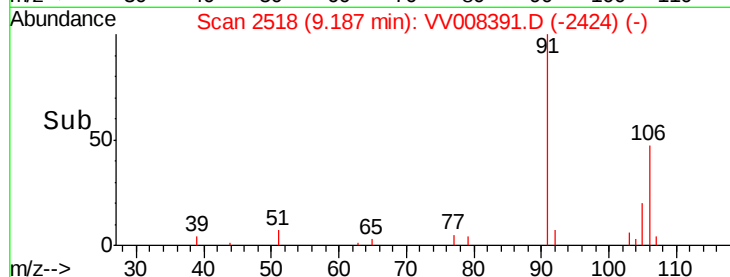
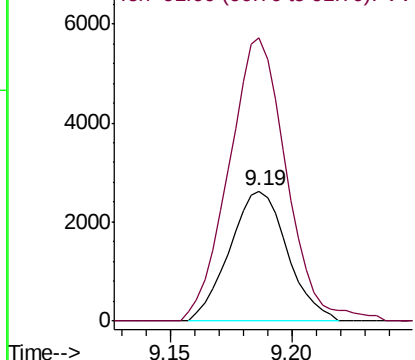
#53  
m,p-Xylene  
Concen: 1.791 ug/L  
RT: 9.19 min Scan# 2518  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL02

Tgt Ion:106 Resp: 4316  
Ion Ratio Lower Upper  
106 100  
91 217.8 150.0 278.6

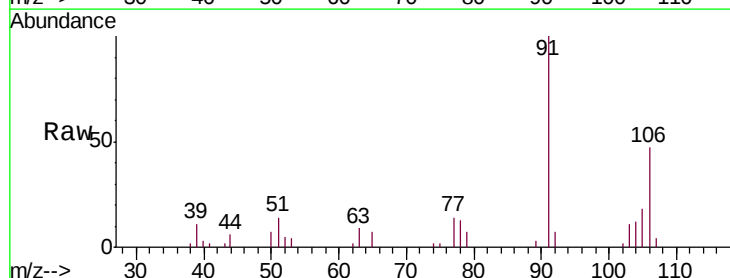


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

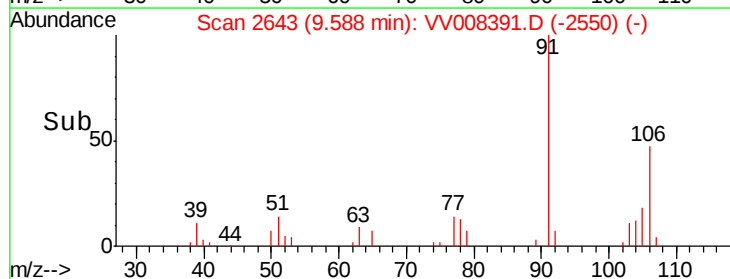
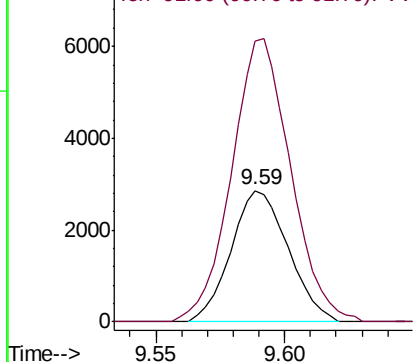


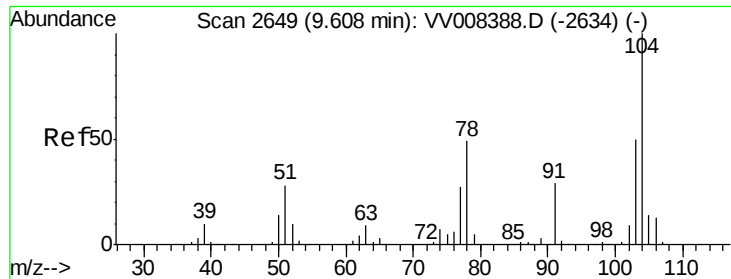
#54  
o-xylene  
Concen: 1.839 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. 0.00 min  
Lab File: VV008391.D  
Acq: 24 Oct 2018 14:40

Tgt Ion:106 Resp: 4426  
Ion Ratio Lower Upper  
106 100  
91 214.1 158.7 294.7



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0





#55

Styrene

Concen: 1.769 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleID :

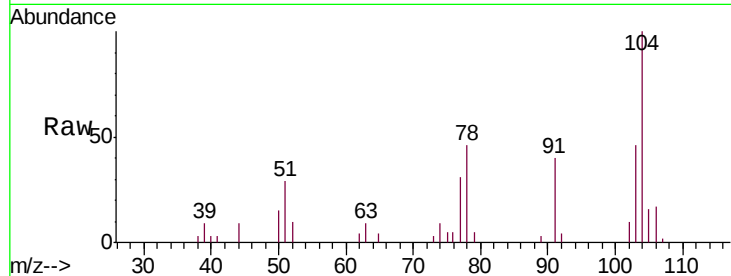
MDL02

Tgt Ion:104 Resp: 7174

Ion Ratio Lower Upper

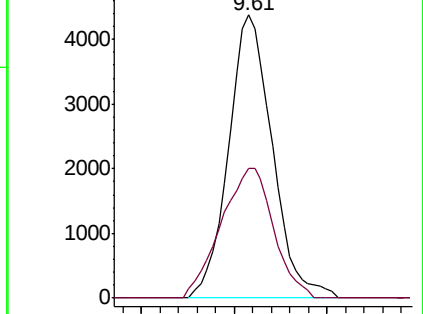
104 100

78 45.8 34.4 64.0

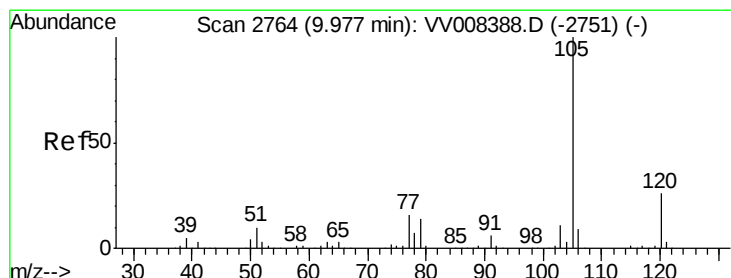
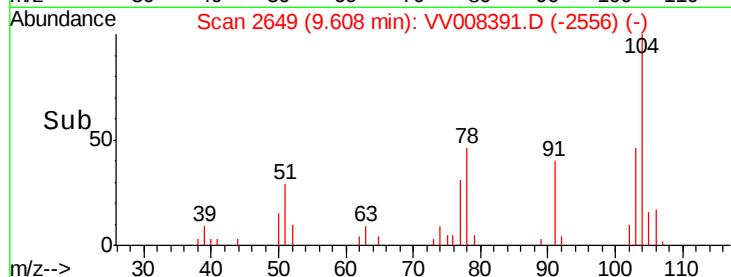


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



Time-->



#56

Isopropylbenzene

Concen: 1.730 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

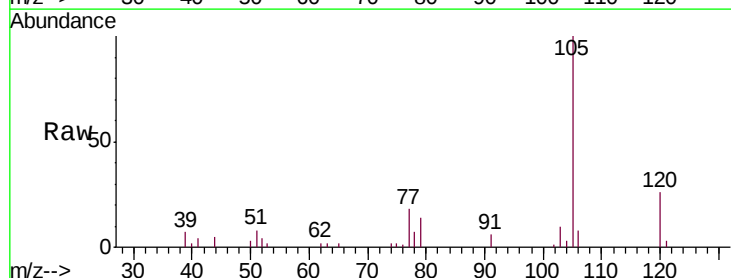
Tgt Ion:105 Resp: 10895

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

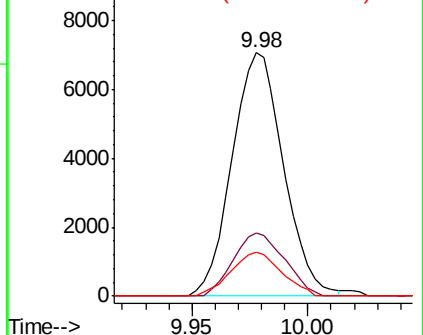
77 17.7 13.5 20.3



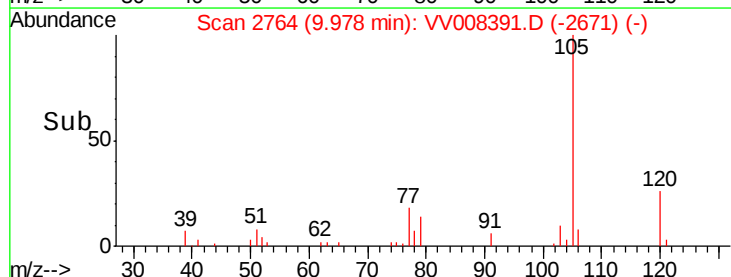
Abundance Ion 105.00 (104.70 to 105.70): V

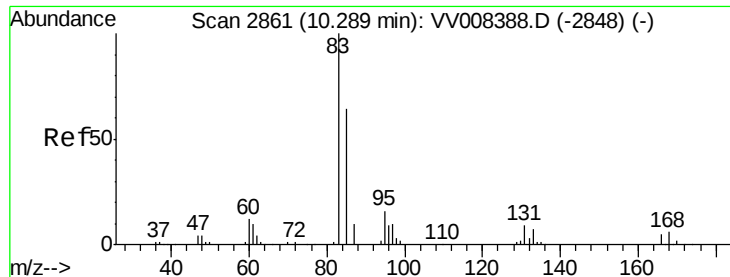
Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0



Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 2.071 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampled :

MDL02

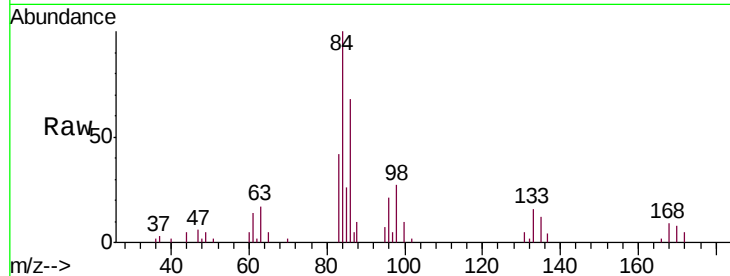
Tgt Ion: 83 Resp: 5022

Ion Ratio Lower Upper

83 100

85 63.8 45.8 85.2

131 11.8 7.3 10.9#

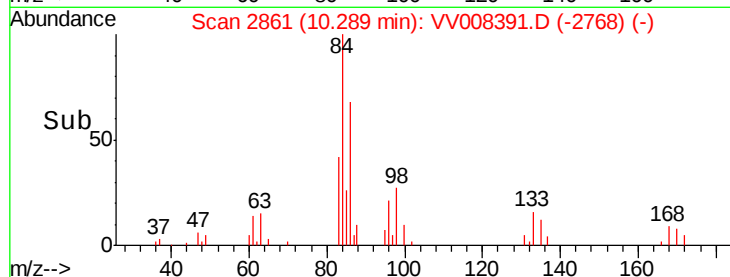


Abundance Ion 83.00 (82.70 to 83.70): VV008388.D (-2848) (-)

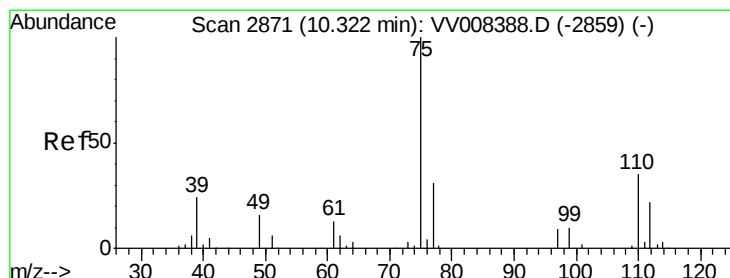
Ion 85.00 (84.70 to 85.70): VV008388.D (-2848) (-)

Ion 131.00 (130.70 to 131.70): VV008388.D (-2848) (-)

Time-->



Time-->



#59

1,2,3-Trichloropropane

Concen: 1.793 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV008391.D

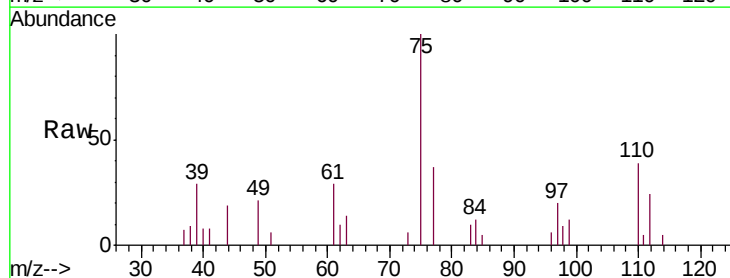
Acq: 24 Oct 2018 14:40

Tgt Ion: 75 Resp: 3519

Ion Ratio Lower Upper

75 100

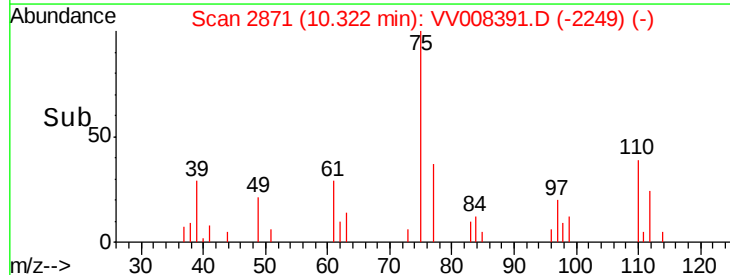
77 36.9 25.8 38.8



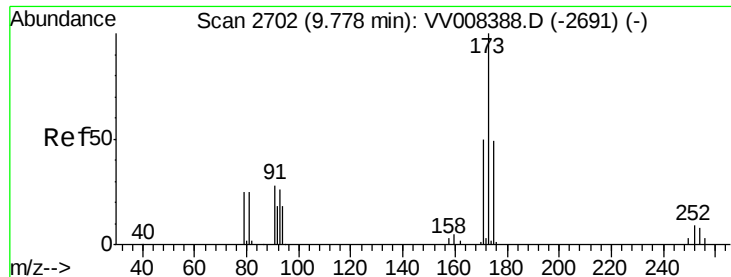
Abundance Ion 75.00 (74.70 to 75.70): VV008388.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV008388.D (-2859) (-)

Time-->



Time-->



#61

Bromoform

Concen: 1.805 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampled :

MDL02

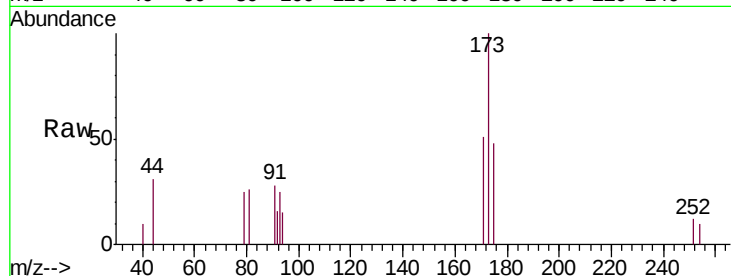
Tgt Ion:173 Resp: 1689

Ion Ratio Lower Upper

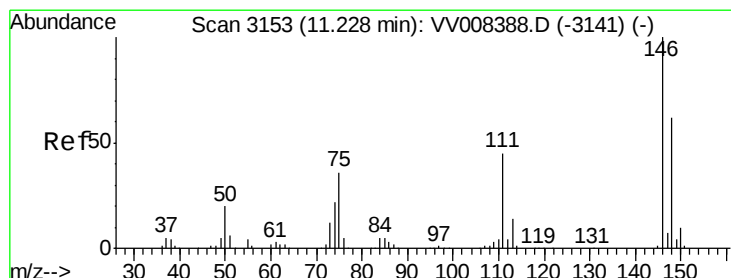
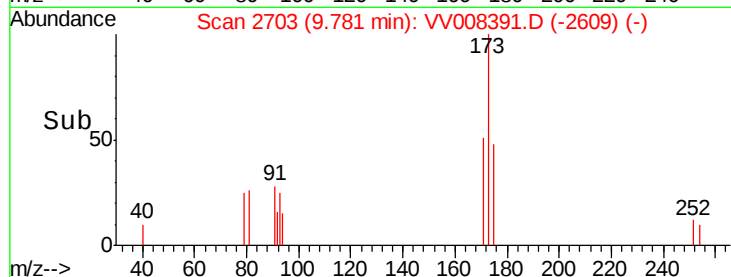
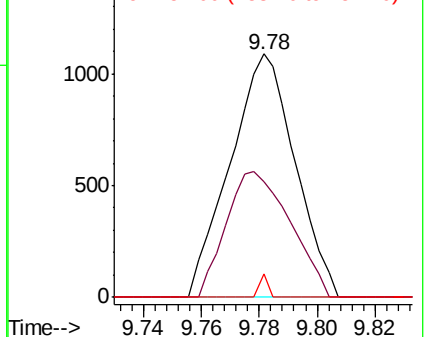
173 100

175 51.0 38.6 57.8

254 0.0 5.9 8.9#



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 1.845 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

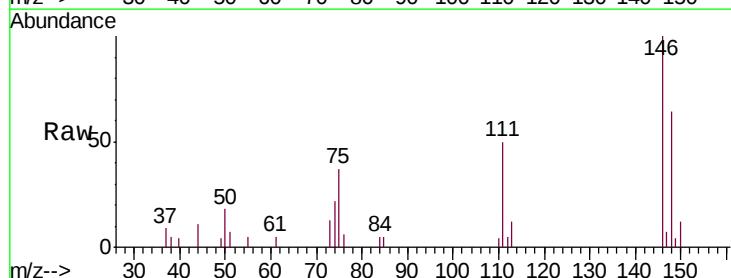
Tgt Ion:146 Resp: 4523

Ion Ratio Lower Upper

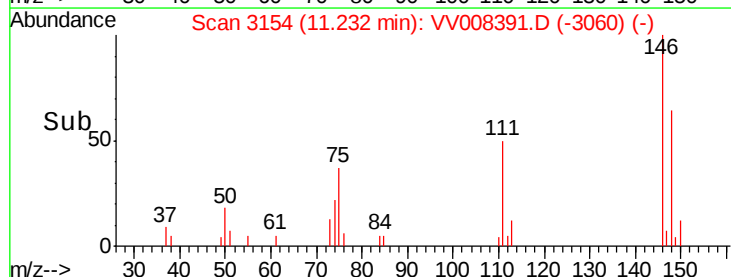
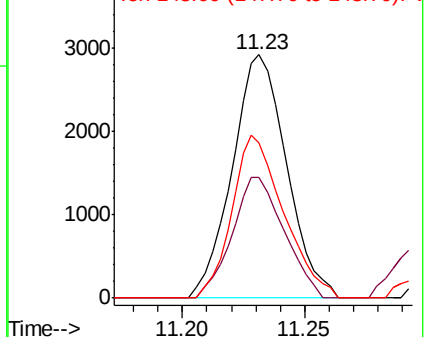
146 100

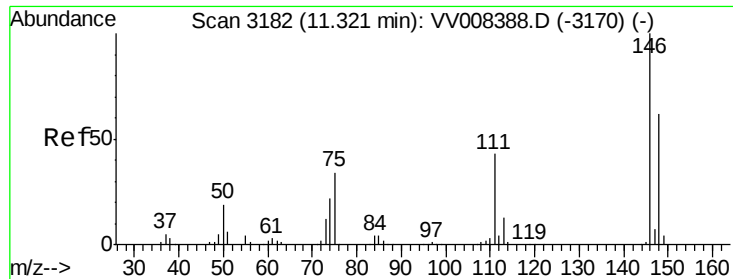
111 49.6 30.9 57.3

148 63.9 44.1 81.9



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

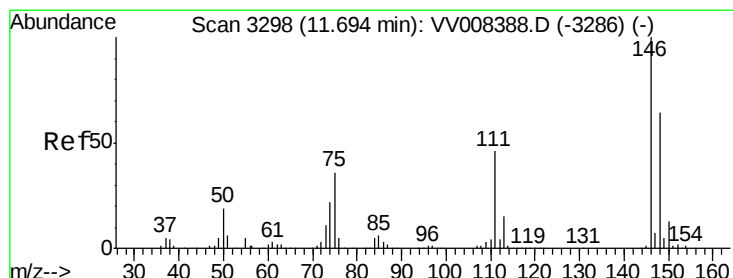
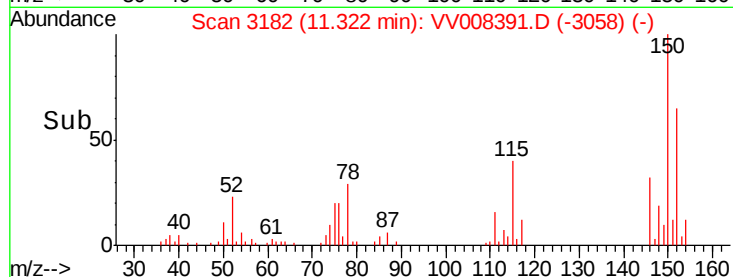
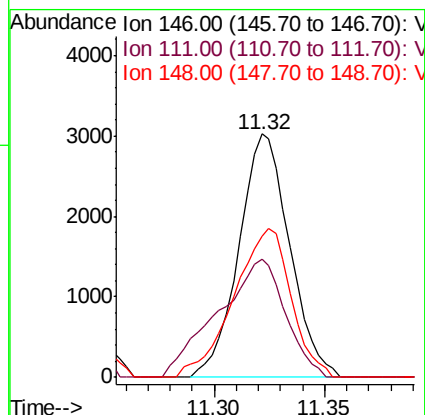
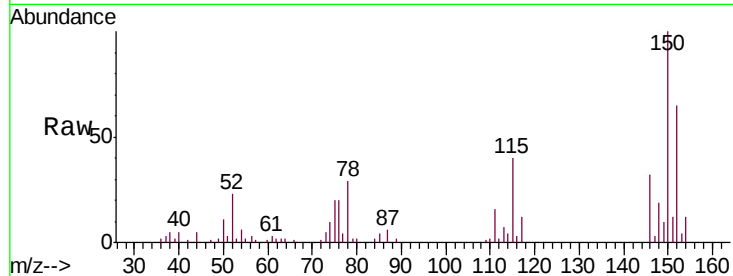




#63  
 1,4-Dichlorobenzene  
 Concen: 1.964 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

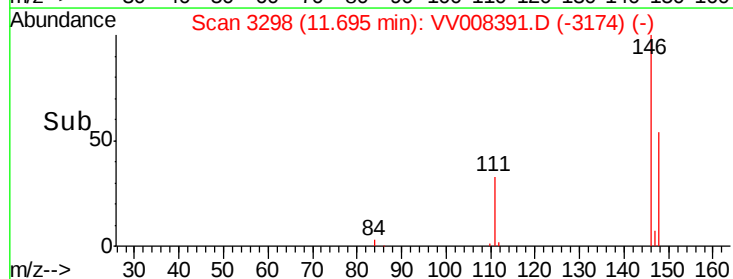
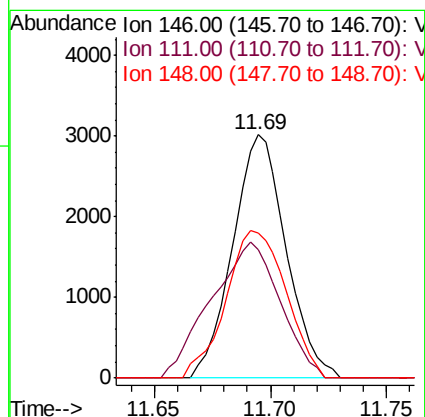
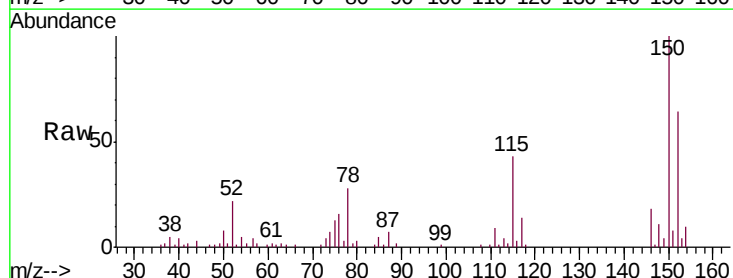
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL02

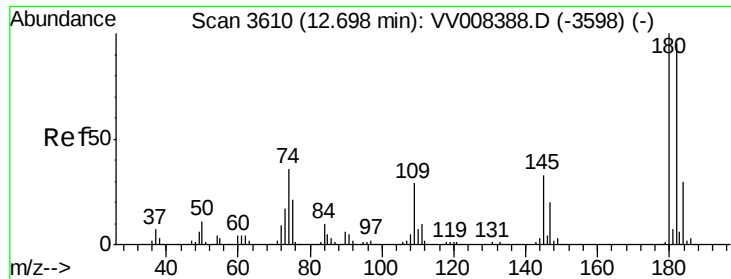
Tgt Ion:146 Resp: 4827  
 Ion Ratio Lower Upper  
 146 100  
 111 48.6 29.8 55.4  
 148 57.9 44.4 82.5



#65  
 1,2-Dichlorobenzene  
 Concen: 1.926 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Tgt Ion:146 Resp: 4815  
 Ion Ratio Lower Upper  
 146 100  
 111 52.9 36.2 54.2  
 148 59.6 50.3 75.5

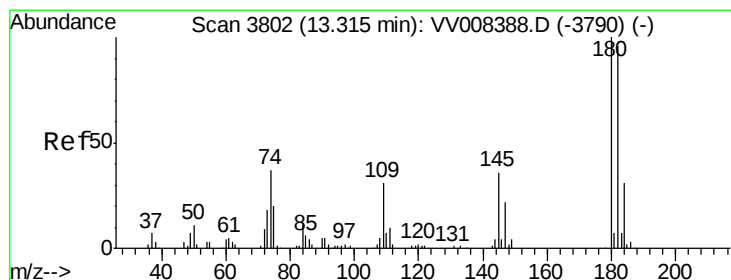
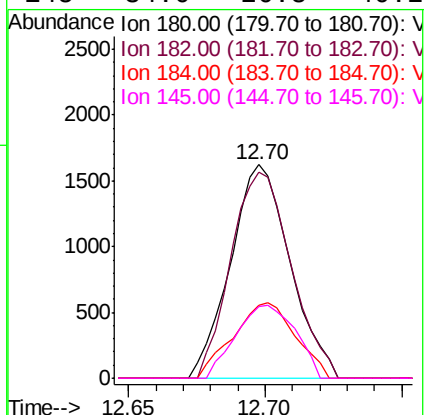
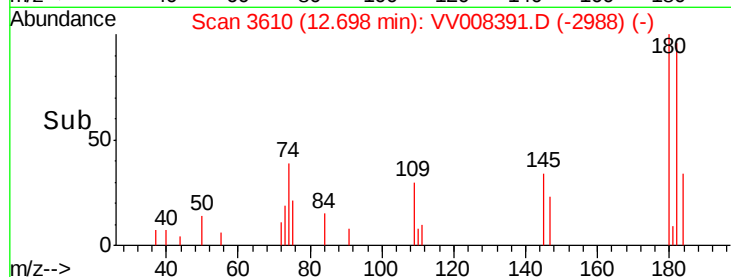
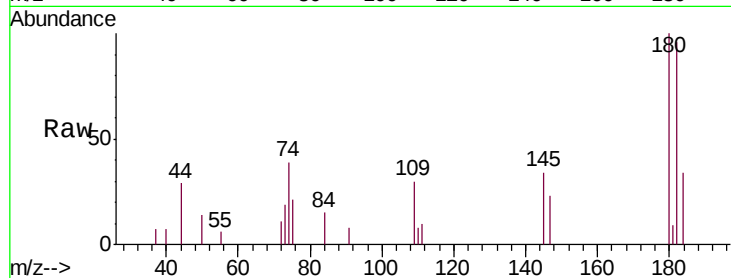




#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.538 ug/L  
 RT: 12.70 min Scan# 3610  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

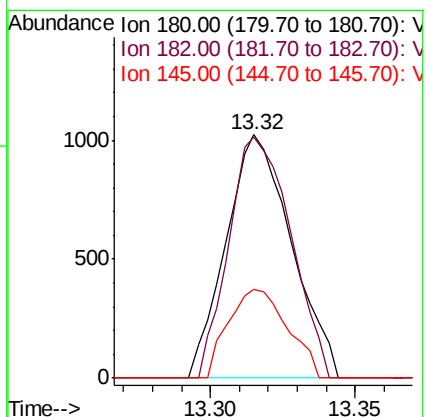
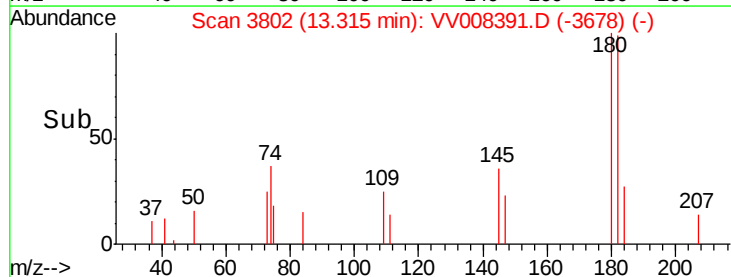
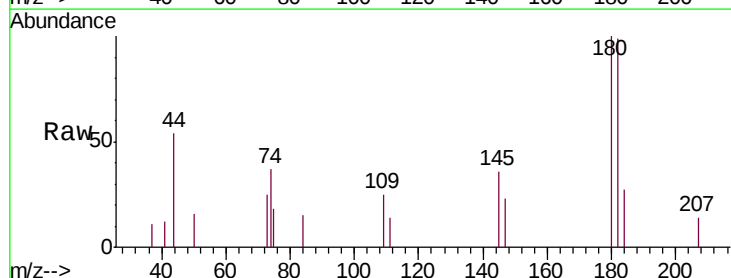
Instrument :  
 MSVOA\_V  
 ClientSampleID :  
 MDL02

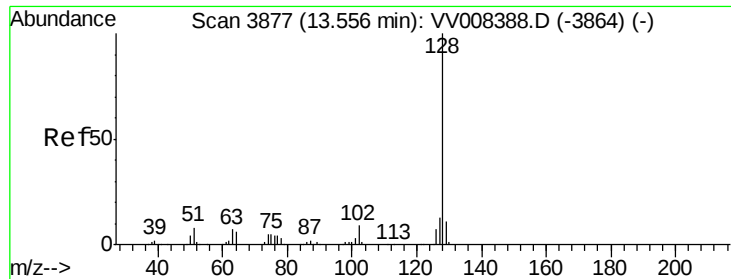
Tgt Ion:180 Resp: 2462  
 Ion Ratio Lower Upper  
 180 100  
 182 97.4 75.9 113.9  
 184 36.8 24.1 36.1#  
 145 34.0 26.8 40.2



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.237 ug/L  
 RT: 13.32 min Scan# 3802  
 Delta R.T. 0.00 min  
 Lab File: VV008391.D  
 Acq: 24 Oct 2018 14:40

Tgt Ion:180 Resp: 1602  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 75.4 113.2  
 145 33.1 27.0 40.6





#69

Naphthalene

Concen: 1.117 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

Instrument :

MSVOA\_V

ClientSampleId :

MDL02

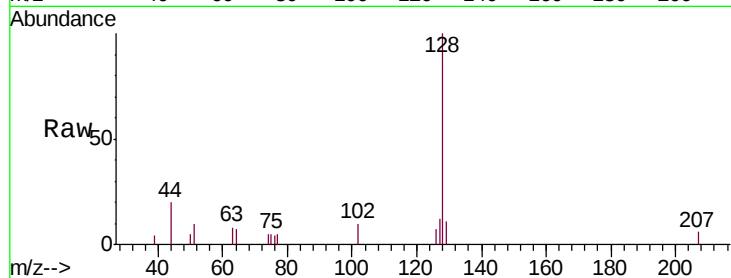
Tgt Ion:128 Resp: 4678

Ion Ratio Lower Upper

128 100

127 9.7 10.6 15.8#

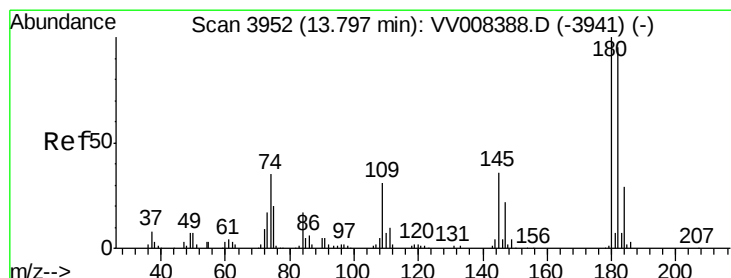
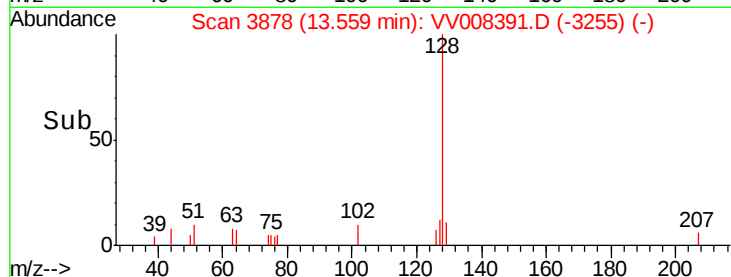
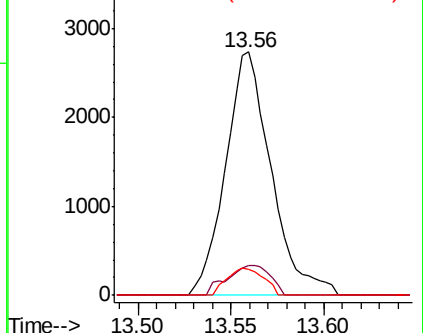
129 8.9 8.9 13.3



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



#70

1,2,3-Trichlorobenzene

Concen: 1.326 ug/L

RT: 13.80 min Scan# 3953

Delta R.T. 0.00 min

Lab File: VV008391.D

Acq: 24 Oct 2018 14:40

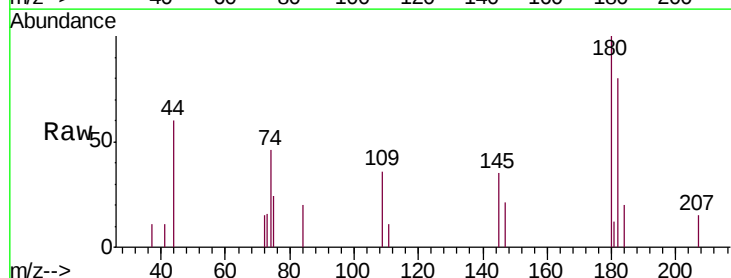
Tgt Ion:180 Resp: 1716

Ion Ratio Lower Upper

180 100

182 84.3 75.7 113.5

145 34.1 28.6 43.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

