

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU121518\  
 Data File : VU028689.D  
 Acq On : 14 Dec 2018 17:39  
 Operator : MD/SY  
 Sample : J6393-03  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-9C\_R1

Quant Time: Dec 15 01:08:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 Response via : Initial Calibration

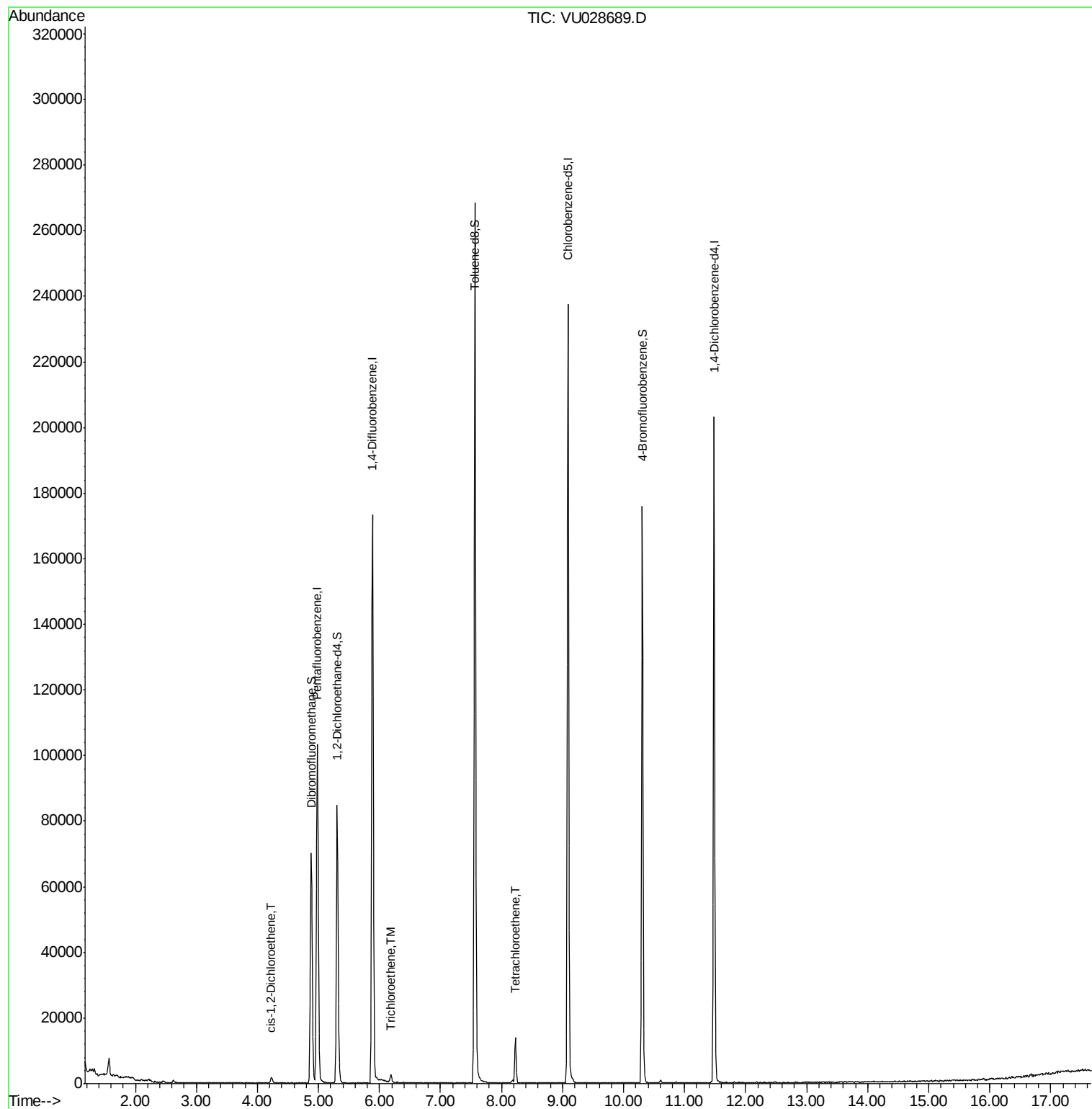
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 4.98  | 168  | 76899    | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.89  | 114  | 138562   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.09  | 117  | 124910   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 11.48 | 152  | 49161    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 65156    | 55.52 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.04% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 47390    | 54.35 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.70% |          |
| 50) Toluene-d8              | 7.57  | 98   | 179025   | 51.90 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.80% |          |
| 62) 4-Bromofluorobenzene    | 10.30 | 95   | 57925    | 44.93 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 89.86%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 27) cis-1,2-Dichloroethene  | 4.22  | 96   | 918      | 0.841 | ug/l    | 96       |
| 44) Trichloroethene         | 6.19  | 130  | 918      | 0.925 | ug/l    | 98       |
| 64) Tetrachloroethene       | 8.23  | 164  | 3012     | 3.615 | ug/l    | 98       |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:39:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028689.D

Acq: 14 Dec 2018 17:39

Instrument :

MSVOA\_U

ClientSampleId :

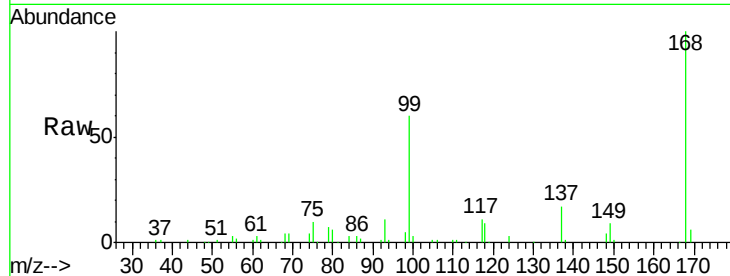
MW-9C\_R1

Tgt Ion: 168 Resp: 76899

Ion Ratio Lower Upper

168 100

99 60.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

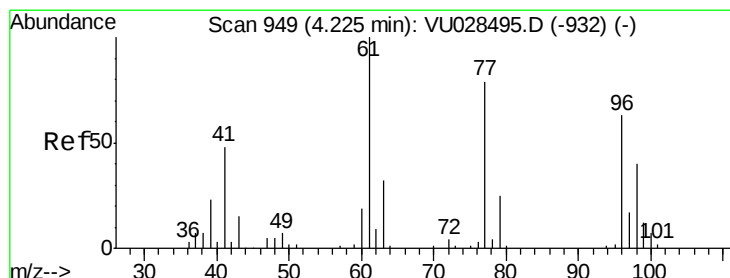
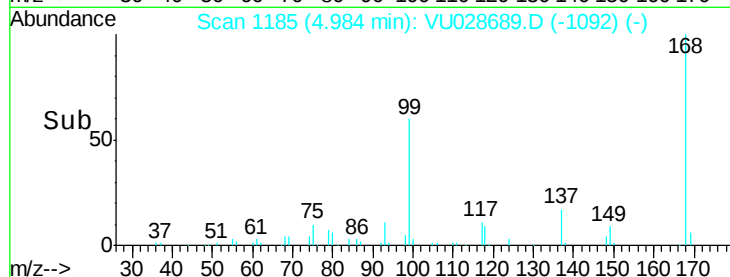
20000

10000

0

4.90 5.00 5.10

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.841 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028689.D

Acq: 14 Dec 2018 17:39

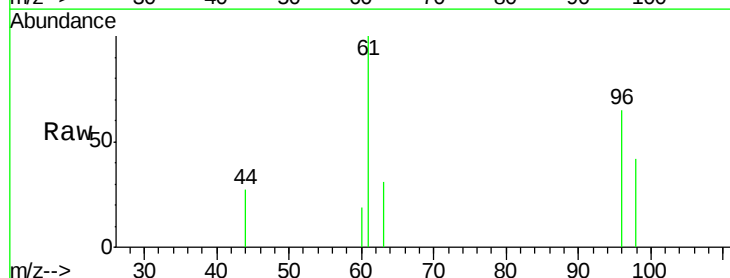
Tgt Ion: 96 Resp: 918

Ion Ratio Lower Upper

96 100

61 163.9 0.0 332.4

98 71.6 0.0 129.0



Abundance Ion 95.90 (95.60 to 96.60): VU028495.D (-932) (-)

Ion 60.90 (60.60 to 61.60): VU028495.D (-932) (-)

Ion 97.90 (97.60 to 98.60): VU028495.D (-932) (-)

4.22

800

600

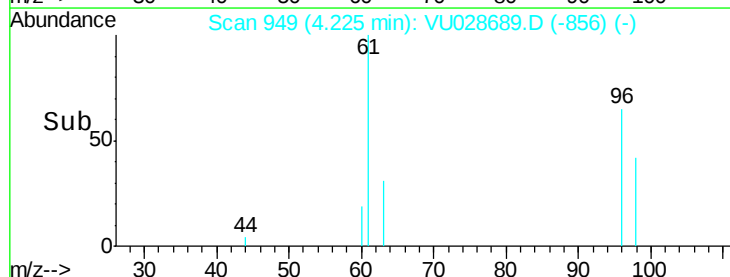
400

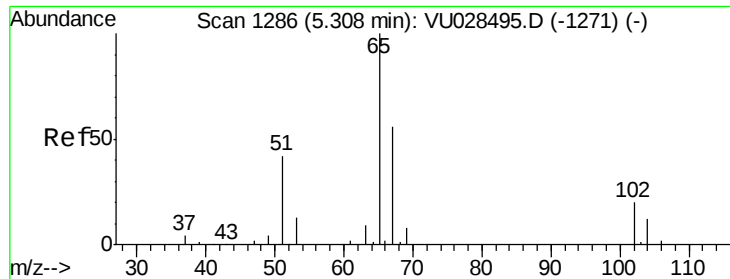
200

0

4.20 4.25

Time-->

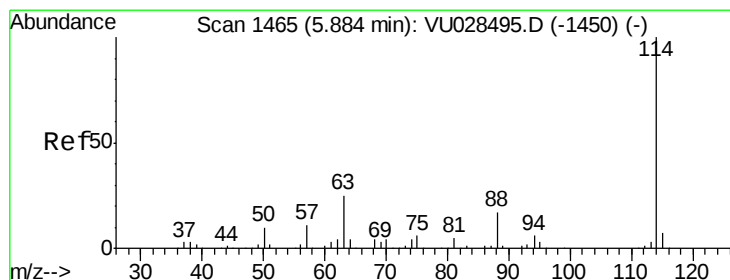
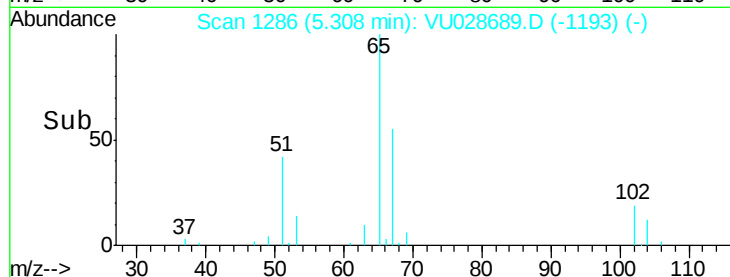
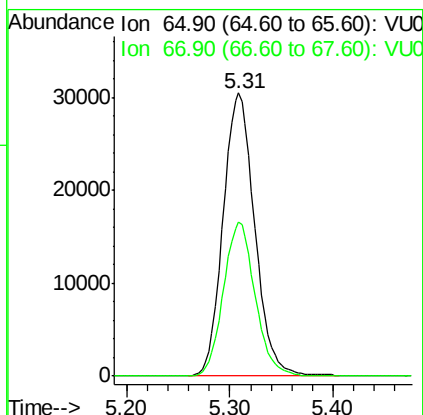
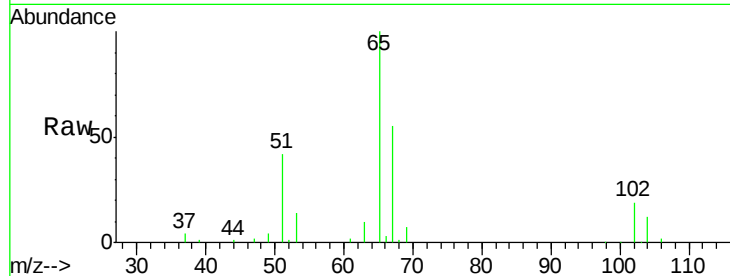




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.521 ug/l  
 RT: 5.31 min Scan# 1286  
 Delta R.T. -0.00 min  
 Lab File: VU028689.D  
 Acq: 14 Dec 2018 17:39

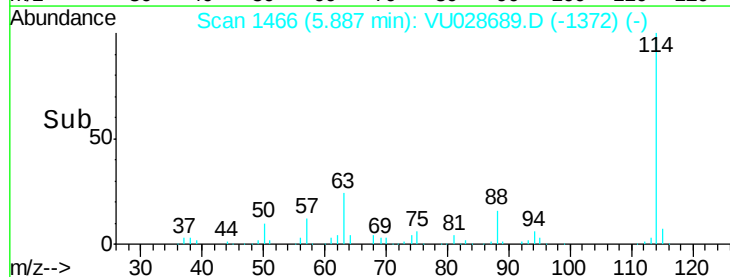
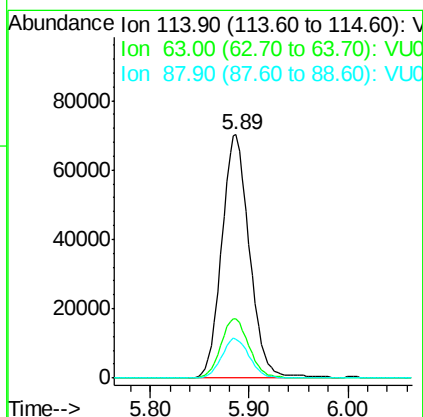
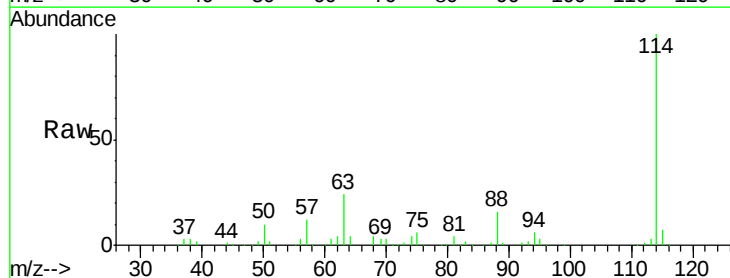
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-9C\_R1

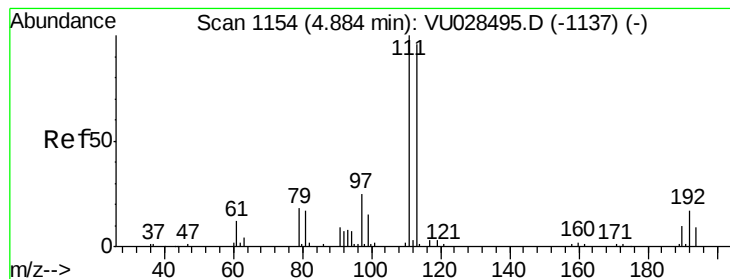
Tgt Ion: 65 Resp: 65156  
 Ion Ratio Lower Upper  
 65 100  
 67 54.3 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. 0.00 min  
 Lab File: VU028689.D  
 Acq: 14 Dec 2018 17:39

Tgt Ion: 114 Resp: 138562  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 49.2  
 88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 54.348 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028689.D

Acq: 14 Dec 2018 17:39

Instrument :

MSVOA\_U

ClientSampleId :

MW-9C\_R1

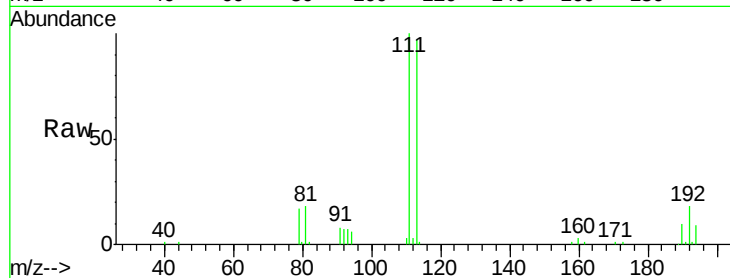
Tgt Ion:113 Resp: 47390

Ion Ratio Lower Upper

113 100

111 104.5 83.4 125.0

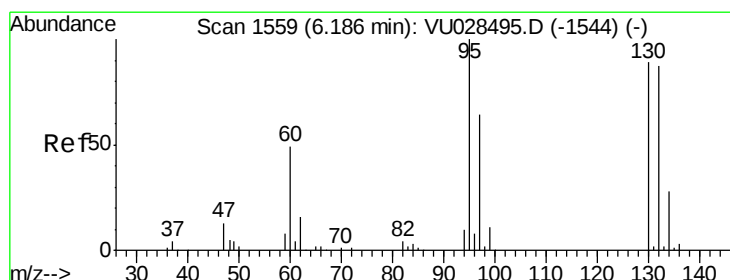
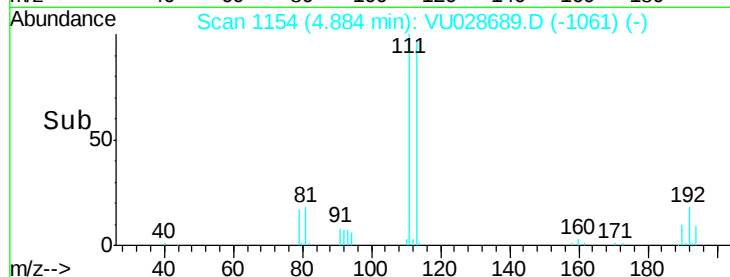
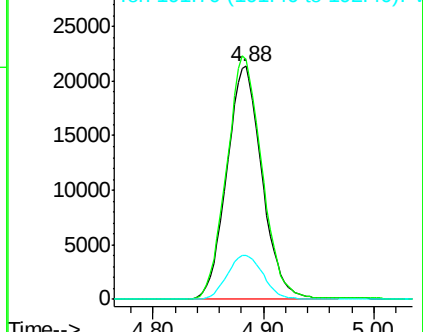
192 19.1 14.8 22.2



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



#44

Trichloroethene

Concen: 0.925 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028689.D

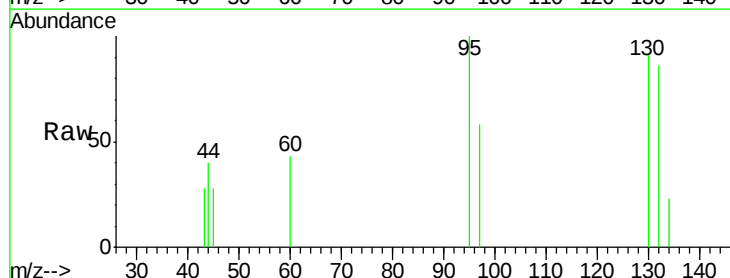
Acq: 14 Dec 2018 17:39

Tgt Ion:130 Resp: 918

Ion Ratio Lower Upper

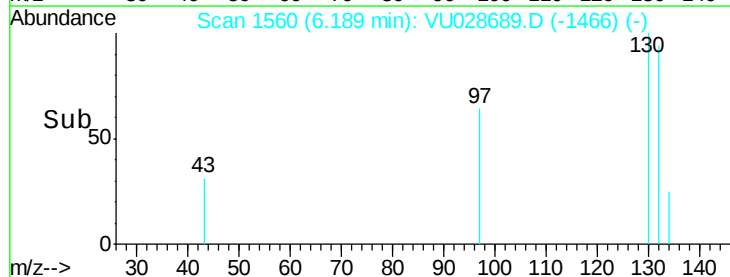
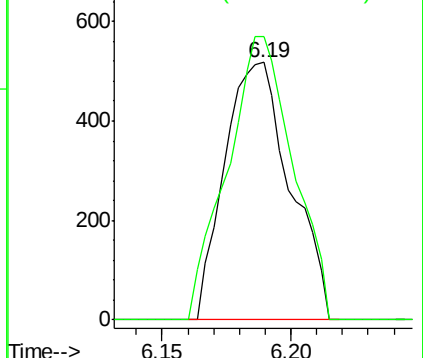
130 100

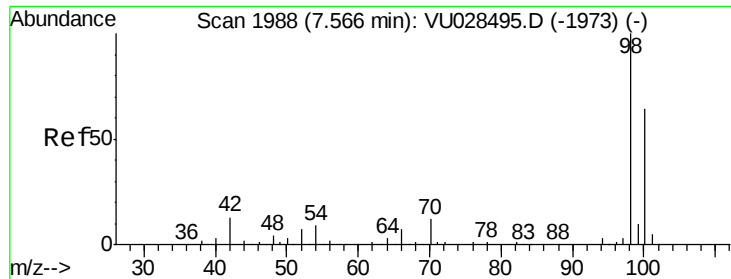
95 109.8 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 51.900 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028689.D

Acq: 14 Dec 2018 17:39

Instrument :

MSVOA\_U

ClientSampleId :

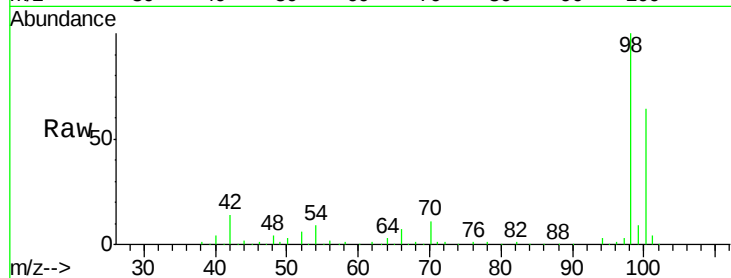
MW-9C\_R1

Tgt Ion: 98 Resp: 179025

Ion Ratio Lower Upper

98 100

100 63.0 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

7.57

120000

100000

80000

60000

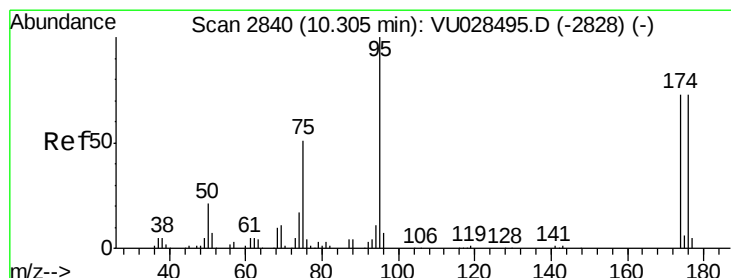
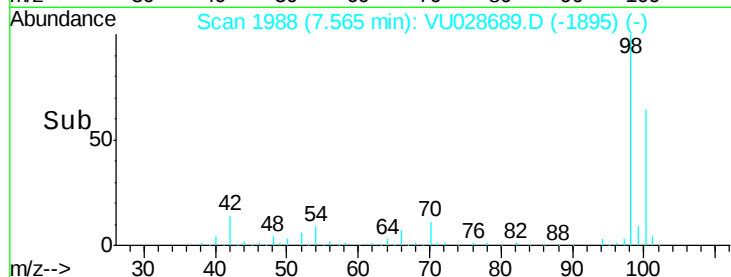
40000

20000

0

7.50 7.60 7.70

Time-->



#62

4-Bromofluorobenzene

Concen: 44.929 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028689.D

Acq: 14 Dec 2018 17:39

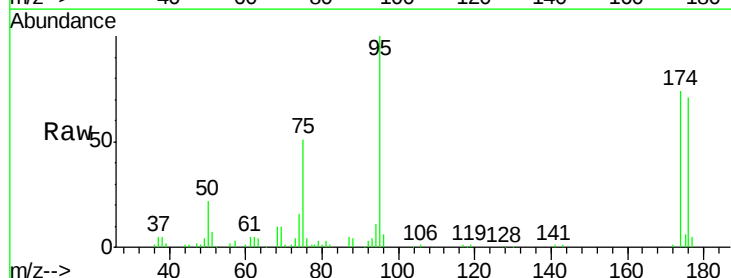
Tgt Ion: 95 Resp: 57925

Ion Ratio Lower Upper

95 100

174 77.3 0.0 150.4

176 74.8 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)

10.30

50000

40000

30000

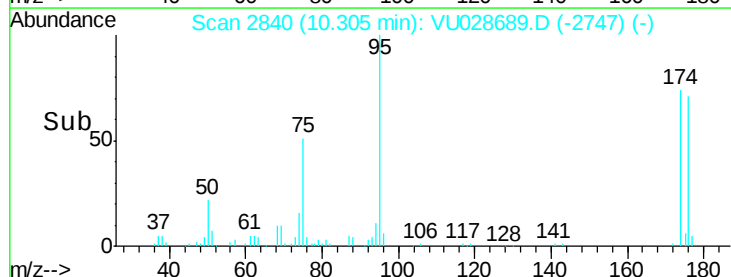
20000

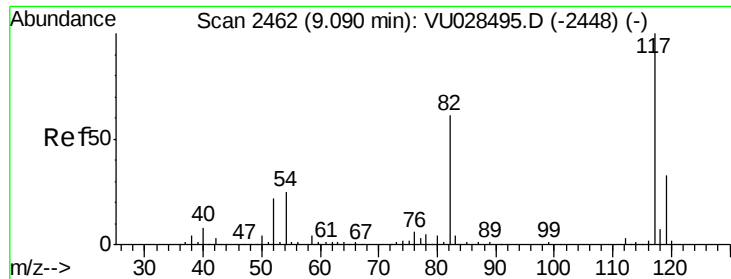
10000

0

10.30 10.40

Time-->

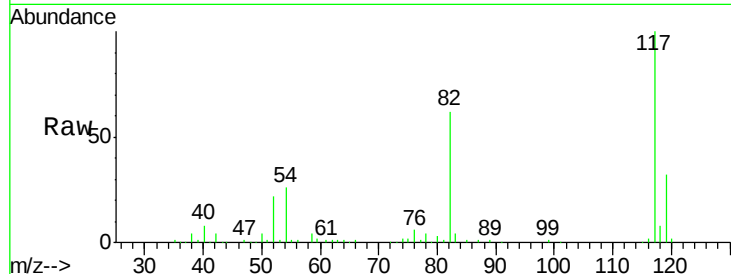




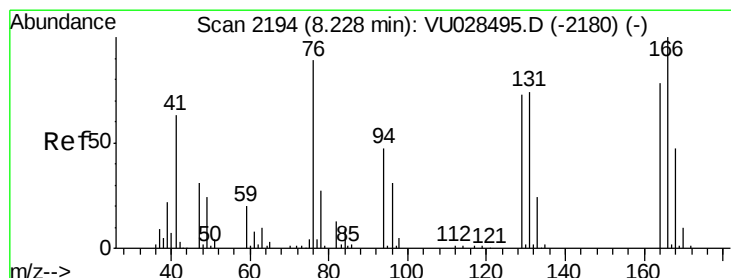
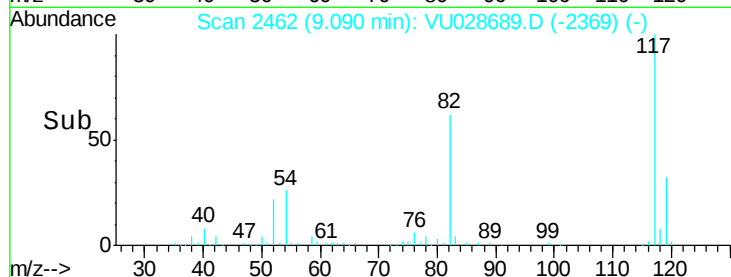
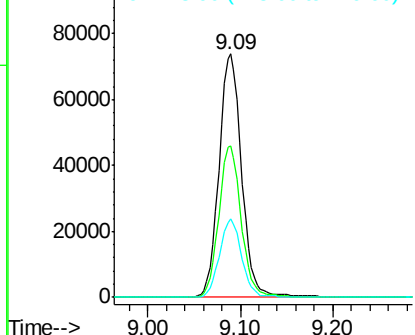
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU028689.D  
Acq: 14 Dec 2018 17:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-9C\_R1

Tgt Ion:117 Resp: 124910  
Ion Ratio Lower Upper  
117 100  
82 62.3 48.9 73.3  
119 32.0 26.2 39.4



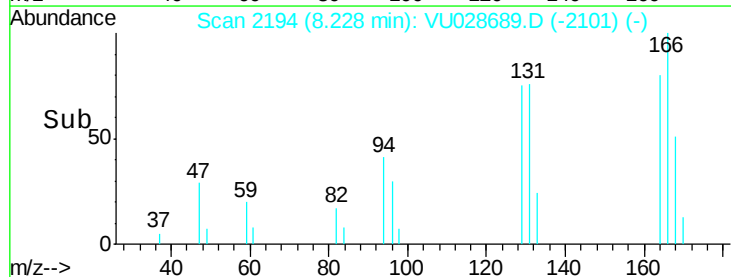
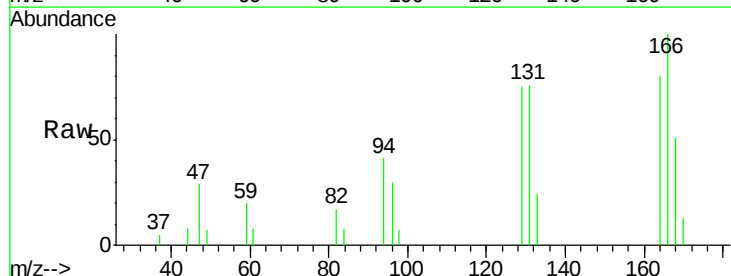
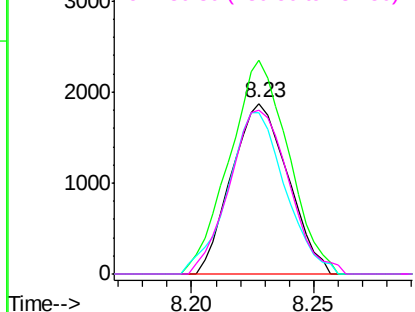
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

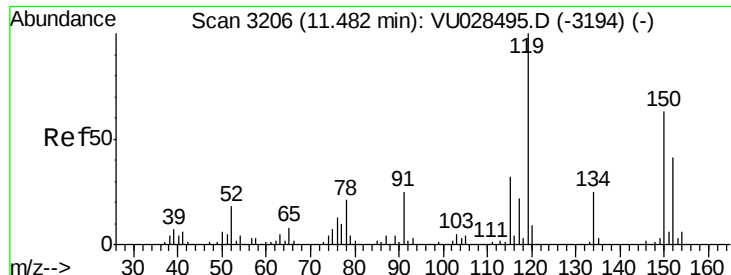


#64  
Tetrachloroethene  
Concen: 3.615 ug/l  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.00 min  
Lab File: VU028689.D  
Acq: 14 Dec 2018 17:39

Tgt Ion:164 Resp: 3012  
Ion Ratio Lower Upper  
164 100  
166 125.4 101.9 152.9  
129 94.5 74.9 112.3  
131 95.9 75.4 113.0

Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.48 min Scan# 3206  
 Delta R.T. -0.00 min  
 Lab File: VU028689.D  
 Acq: 14 Dec 2018 17:39

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-9C\_R1

Tgt Ion:152 Resp: 49161  
 Ion Ratio Lower Upper  
 152 100  
 115 61.0 42.7 128.1  
 150 156.6 0.0 346.0

