

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092418\  
 Data File : VU027100.D  
 Acq On : 24 Sep 2018 11:53  
 Operator : MD/SY  
 Sample : J4969-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ172I-20180916

Quant Time: Sep 25 02:04:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

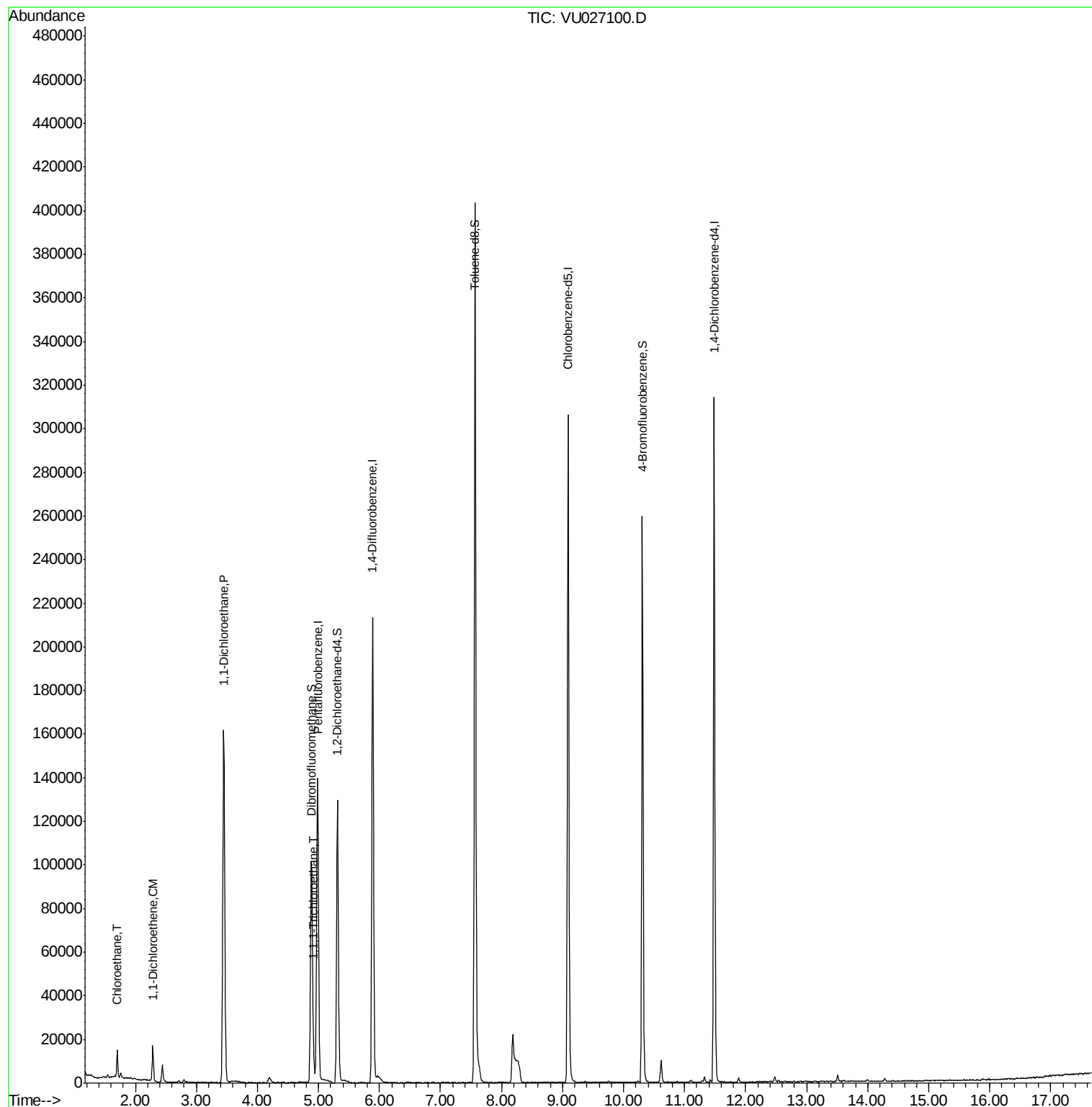
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 4.99  | 168  | 97340    | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.89  | 114  | 165713   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.09  | 117  | 157997   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 11.48 | 152  | 73966    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 99904    | 50.99  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.98% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 68899    | 47.97  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 95.94%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 266215   | 48.63  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.26%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 85773    | 45.66  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 91.32%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 6) Chloroethane             | 1.70  | 64   | 8398     | 6.426  | ug/l    | 99       |
| 12) 1,1-Dichloroethene      | 2.29  | 96   | 4993     | 3.714  | ug/l    | 88       |
| 24) 1,1-Dichloroethane      | 3.45  | 63   | 181499   | 56.502 | ug/l    | 99       |
| 32) 1,1,1-Trichloroethane   | 4.92  | 97   | 6002     | 2.521  | ug/l    | 97       |

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

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QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA\_U

ClientSampleId :

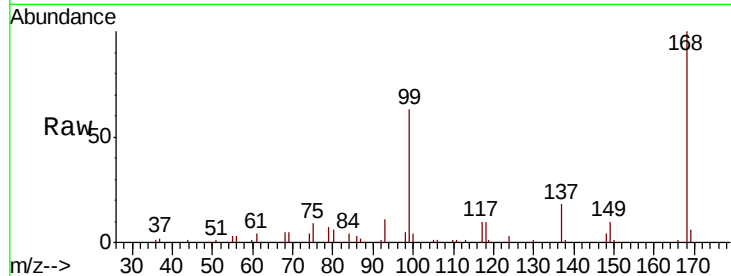
SA-PZ172I-20180916

Tot Ion:168 Resp: 97340

Ion Ratio Lower Upper

168 100

99 62.1 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D

Ion 98.90 (98.60 to 99.60): VU027100.D

4.99

50000

40000

30000

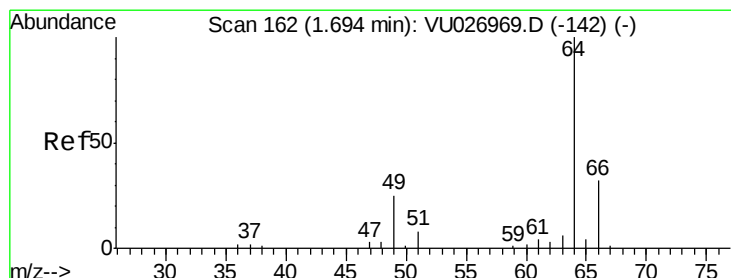
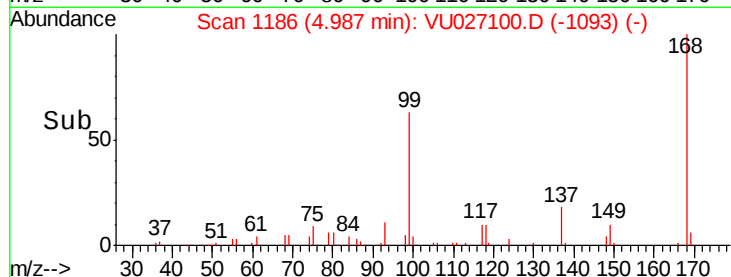
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#6

Chloroethane

Concen: 6.426 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027100.D

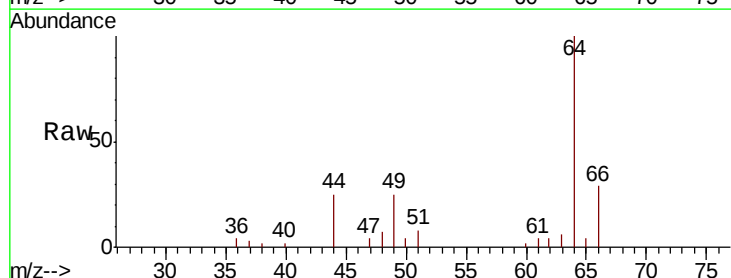
Acq: 24 Sep 2018 11:53

Tgt Ion: 64 Resp: 8398

Ion Ratio Lower Upper

64 100

66 30.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D

Ion 65.90 (65.60 to 66.60): VU027100.D

1.70

6000

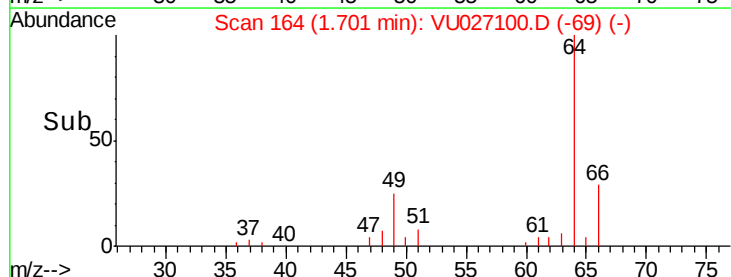
4000

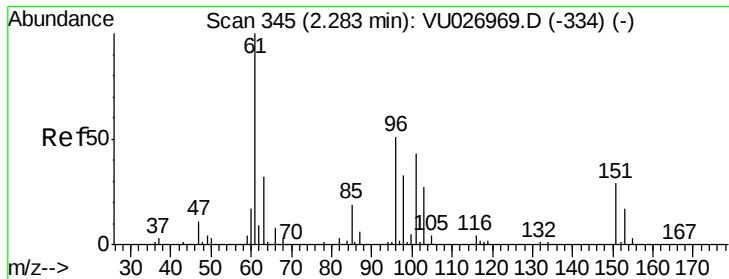
2000

0

1.65 1.70 1.75 1.80

Time-->





#12

1,1-Dichloroethene

Concen: 3.714 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ172I-20180916

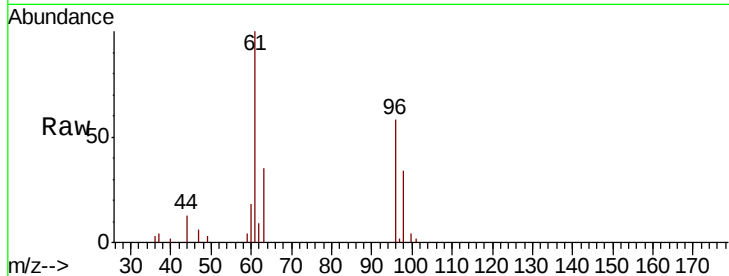
Tot Ion: 96 Resp: 4993

Ion Ratio Lower Upper

96 100

61 173.5 156.1 234.1

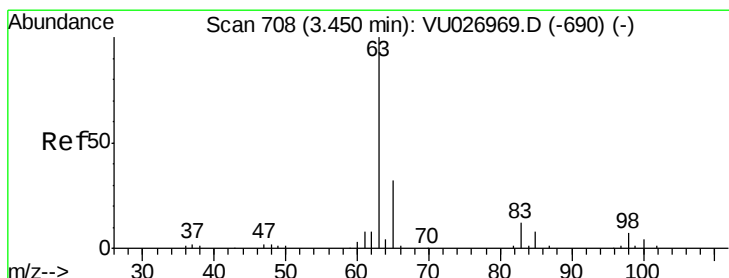
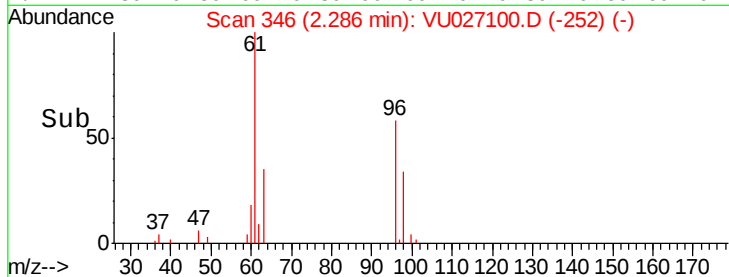
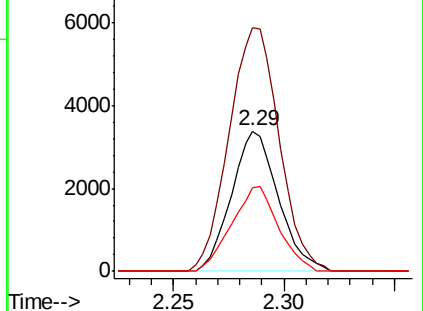
98 59.4 51.4 77.0



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#24

1,1-Dichloroethane

Concen: 56.502 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

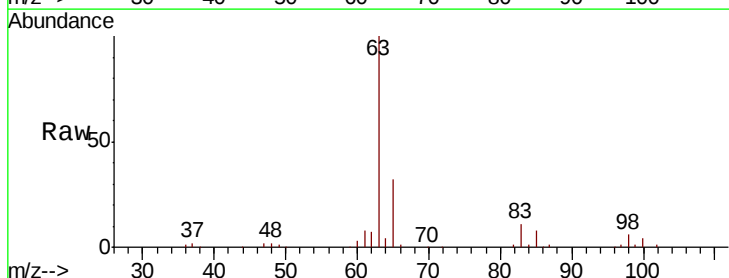
Tgt Ion: 63 Resp: 181499

Ion Ratio Lower Upper

63 100

98 6.1 3.3 9.8

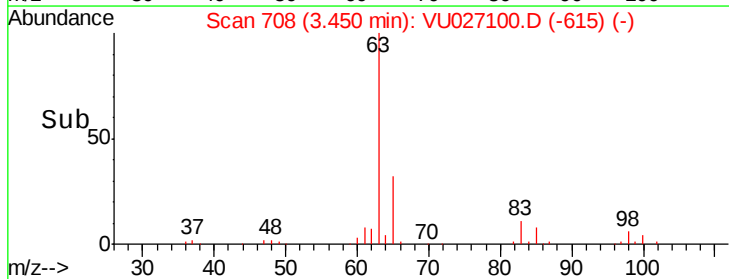
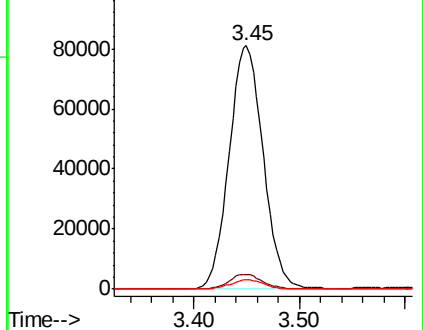
100 4.0 2.0 5.8

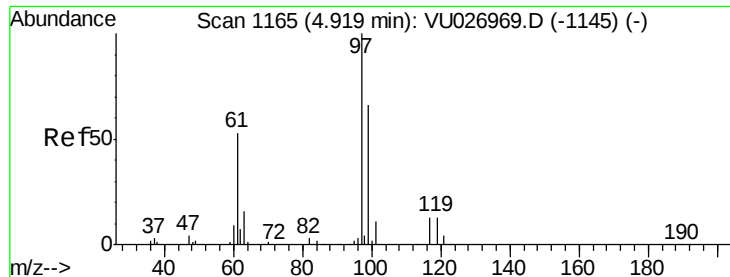


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

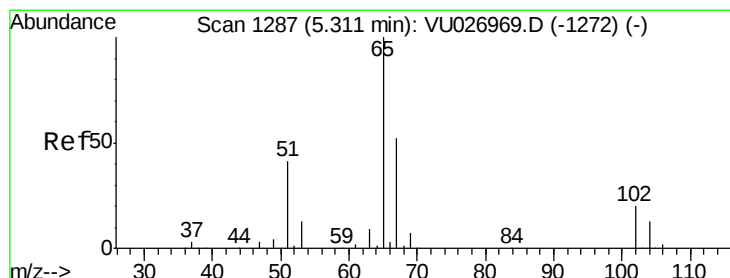
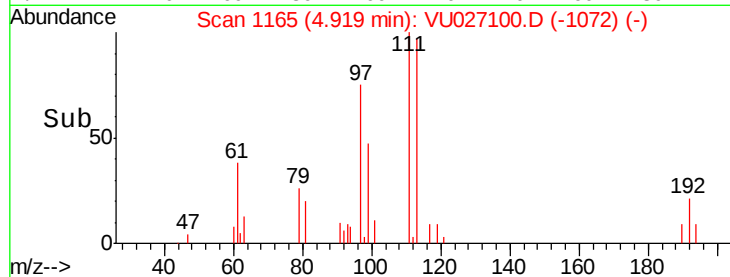
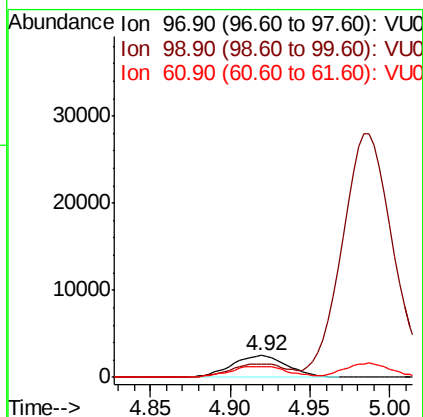
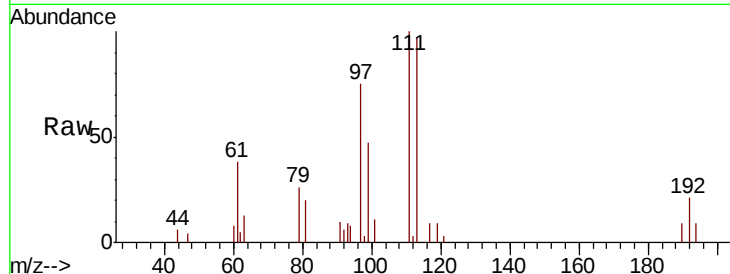




#32  
 1,1,1-Trichloroethane  
 Concen: 2.521 ug/l  
 RT: 4.92 min Scan# 1165  
 Delta R.T. 0.00 min  
 Lab File: VU027100.D  
 Acq: 24 Sep 2018 11:53

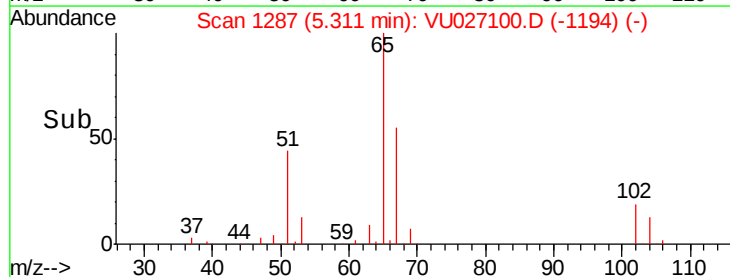
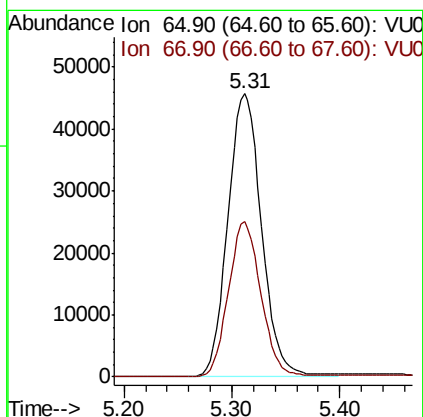
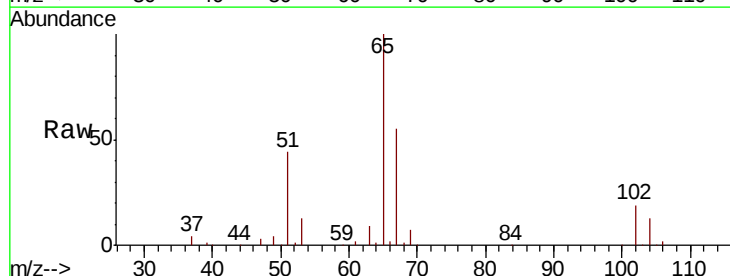
Instrument :  
 MSVOA\_U  
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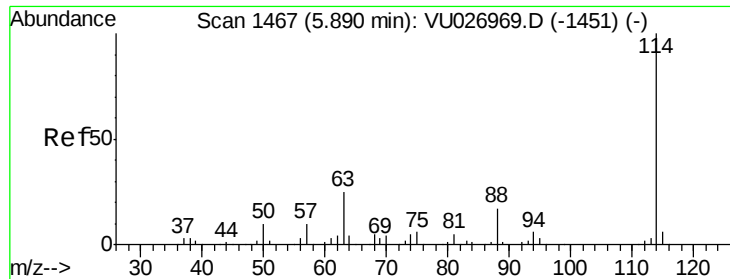
Tot Ion: 97 Resp: 6002  
 Ion Ratio Lower Upper  
 97 100  
 99 61.9 51.8 77.6  
 61 53.0 41.1 61.7



#33  
 1,2-Dichloroethane-d4  
 Concen: 50.994 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: VU027100.D  
 Acq: 24 Sep 2018 11:53

Tgt Ion: 65 Resp: 99904  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 105.6

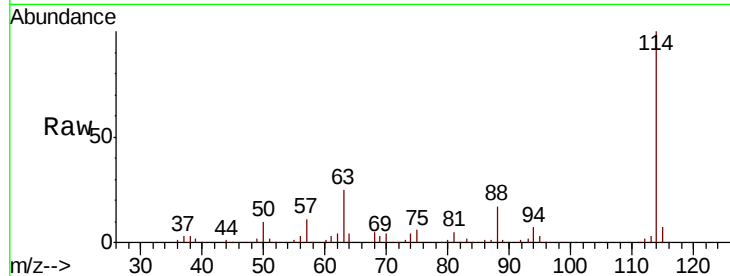




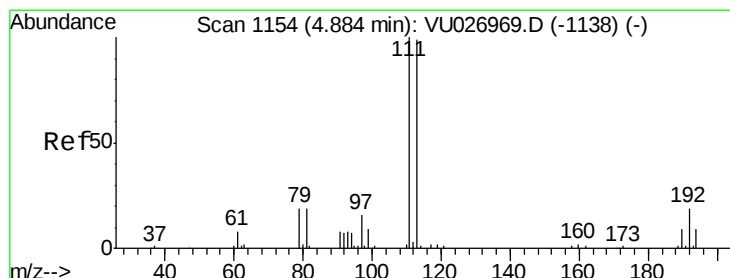
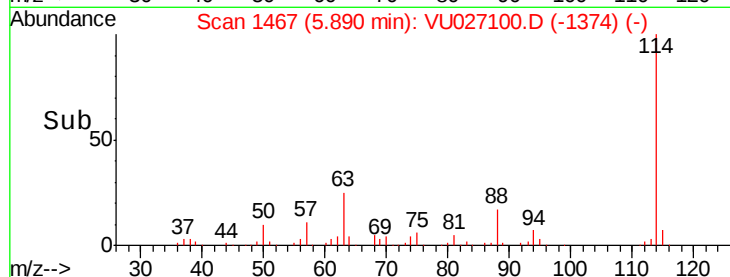
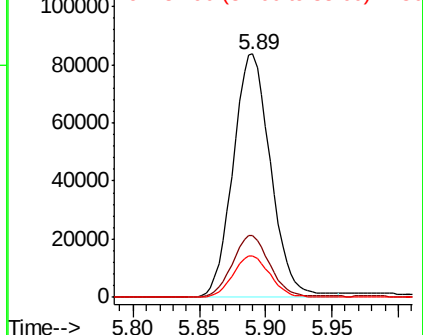
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027100.D  
 Acq: 24 Sep 2018 11:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ172I-20180916

Tot Ion:114 Resp: 165713  
 Ion Ratio Lower Upper  
 114 100  
 63 25.3 0.0 49.2  
 88 16.8 0.0 33.8

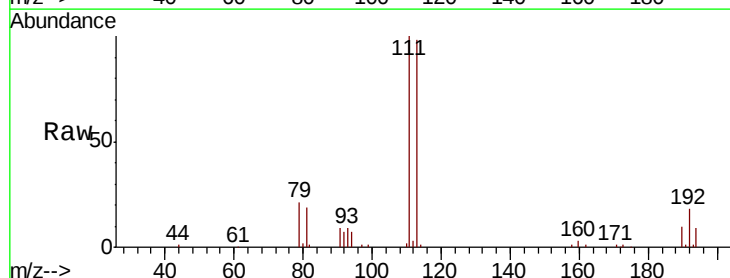


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

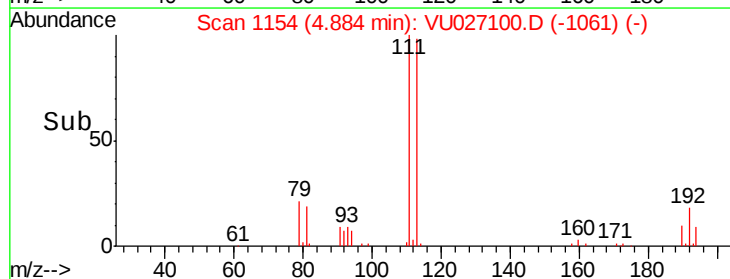
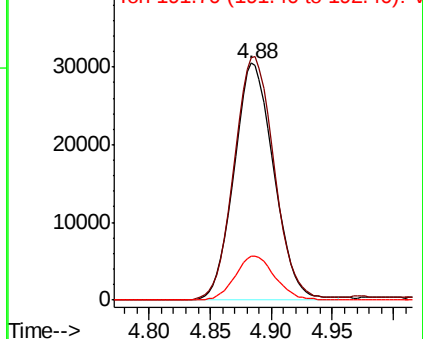


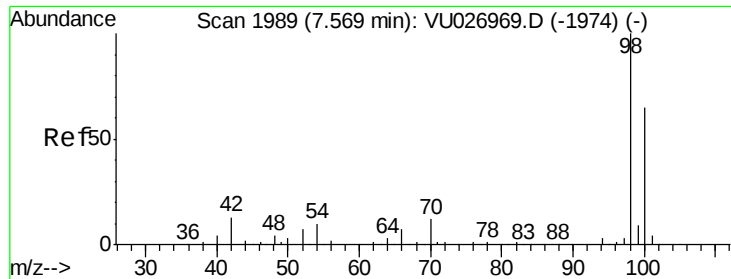
#35  
 Dibromofluoromethane  
 Concen: 47.966 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU027100.D  
 Acq: 24 Sep 2018 11:53

Tgt Ion:113 Resp: 68899  
 Ion Ratio Lower Upper  
 113 100  
 111 104.1 82.2 123.4  
 192 18.5 15.2 22.8



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





#50

Toluene-d8

Concen: 48.631 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA\_U

ClientSampleId :

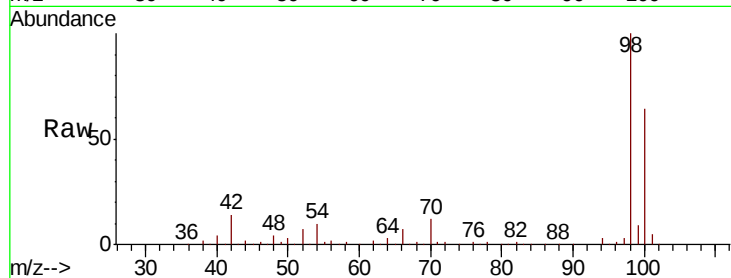
SA-PZ172I-20180916

Tot Ion: 98 Resp: 266215

Ion Ratio Lower Upper

98 100

100 63.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU027100.D (-1896) (-)

7.57

150000

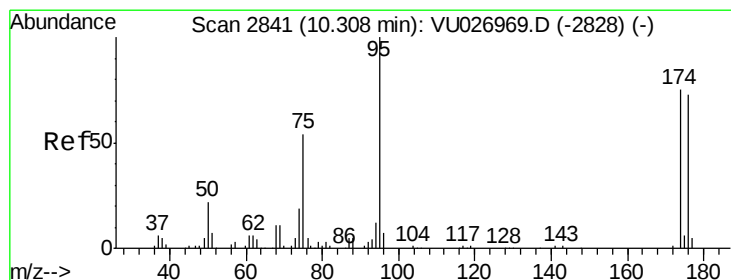
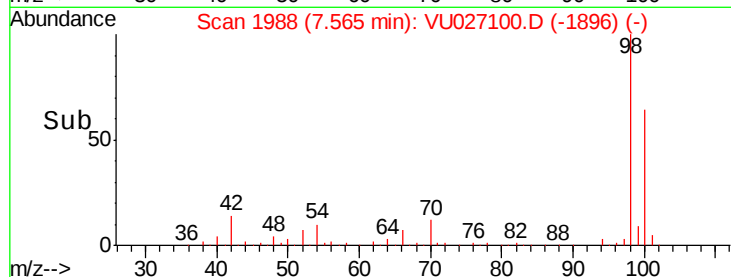
100000

50000

0

7.50 7.60 7.70

Time-->



#62

4-Bromofluorobenzene

Concen: 45.664 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

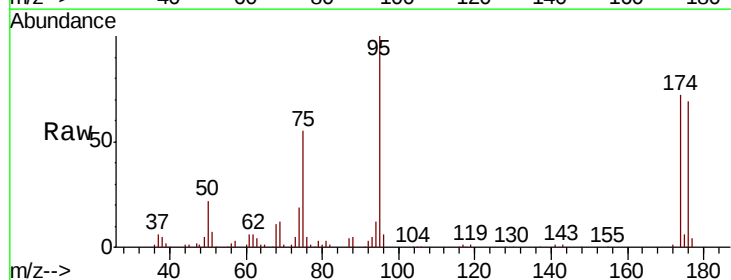
Tgt Ion: 95 Resp: 85773

Ion Ratio Lower Upper

95 100

174 72.9 0.0 150.2

176 69.8 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU027100.D (-2748) (-)

Ion 175.80 (175.50 to 176.50): VU027100.D (-2748) (-)

10.31

60000

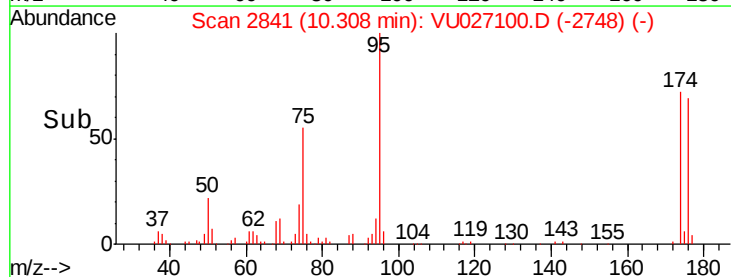
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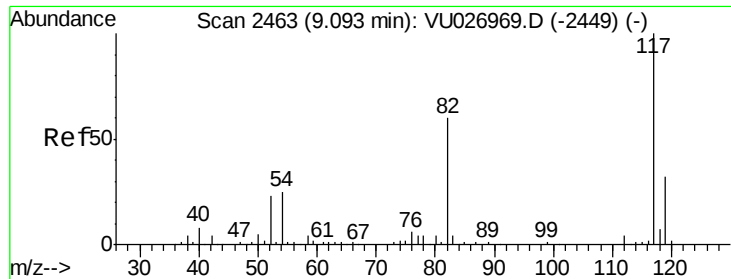
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0

10.25 10.30 10.35 10.40

Time-->

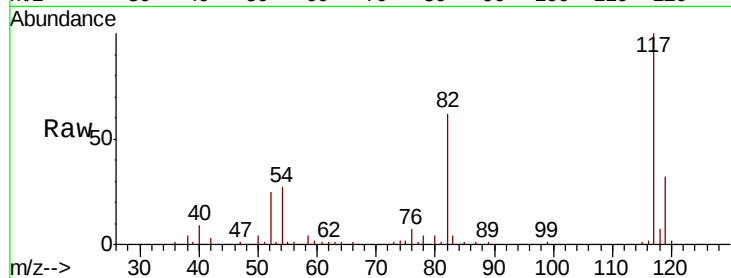




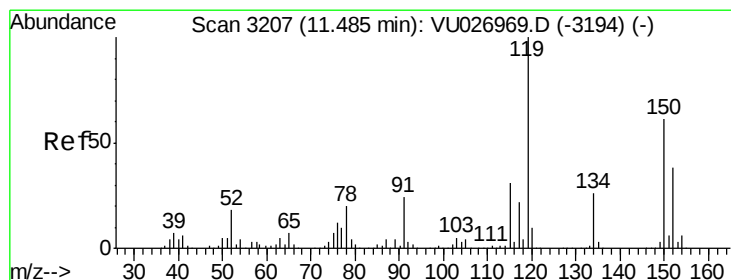
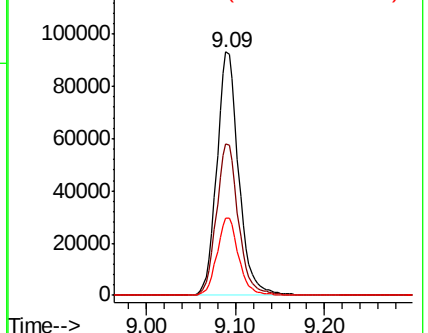
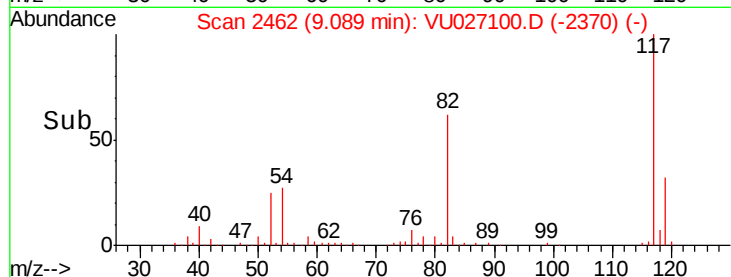
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU027100.D  
Acq: 24 Sep 2018 11:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ172I-20180916

Tot Ion:117 Resp: 157997  
Ion Ratio Lower Upper  
117 100  
82 62.4 48.0 72.0  
119 31.7 25.8 38.8

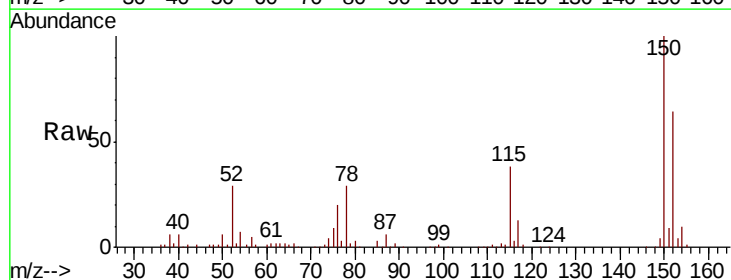


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU027100.D (-2370) (-)  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027100.D  
Acq: 24 Sep 2018 11:53

Tgt Ion:152 Resp: 73966  
Ion Ratio Lower Upper  
152 100  
115 60.7 44.9 134.5  
150 157.3 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): VU027100.D (-3114) (-)  
Ion 149.90 (149.60 to 150.60): V

