

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062018\  
 Data File : VU024755.D  
 Acq On : 20 Jun 2018 14:11  
 Operator : MD/SY  
 Sample : J3577-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 547-TB061318

Quant Time: Jun 20 15:48:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 197358   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 304620   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 281512   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 155345   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 142660   | 44.28 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.56% |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 119783   | 47.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.76% |      |
| 50) Toluene-d8              | 7.57   | 98  | 440109   | 47.73 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.46% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 161489   | 44.11 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.22% |      |

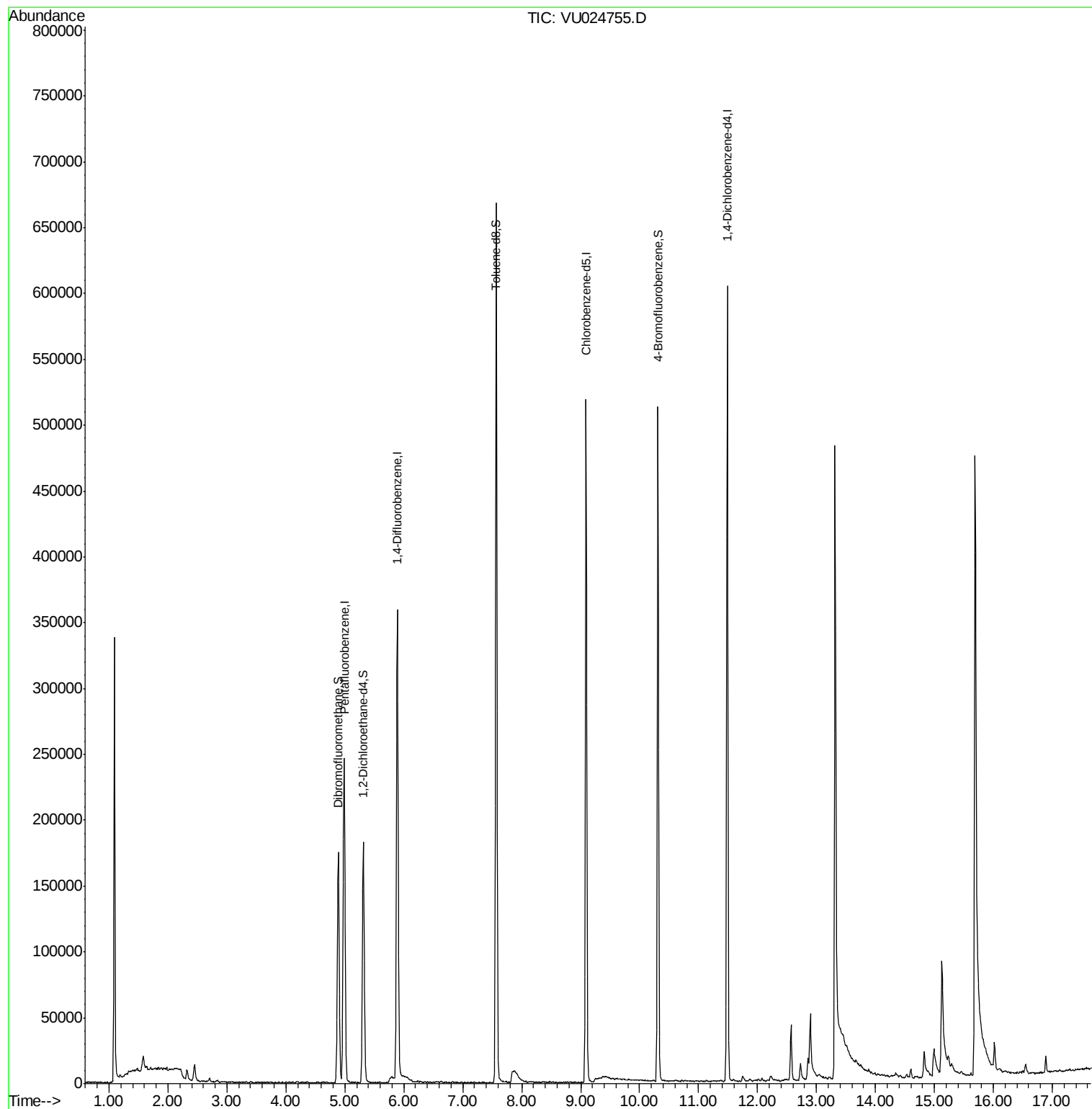
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024755.D

Acq: 20 Jun 2018 14:11

Instrument :

MSVOA\_U

ClientSampleId :

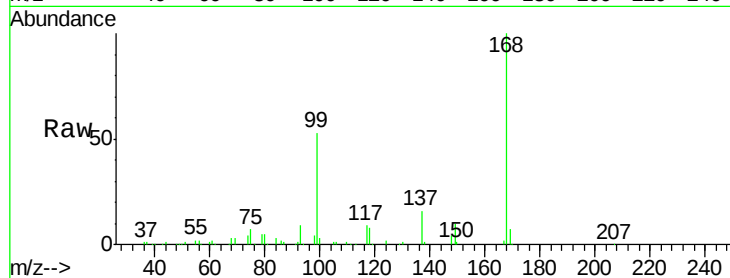
547-TB061318

Tot Ion:168 Resp: 197358

Ion Ratio Lower Upper

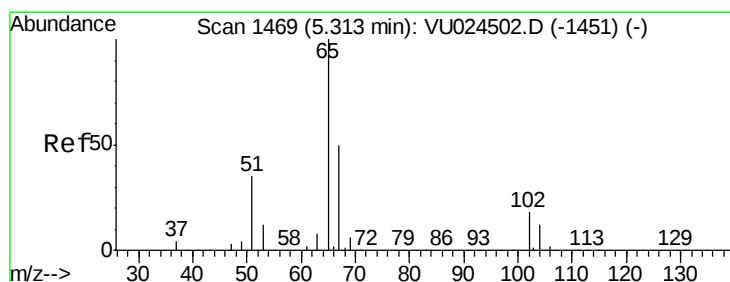
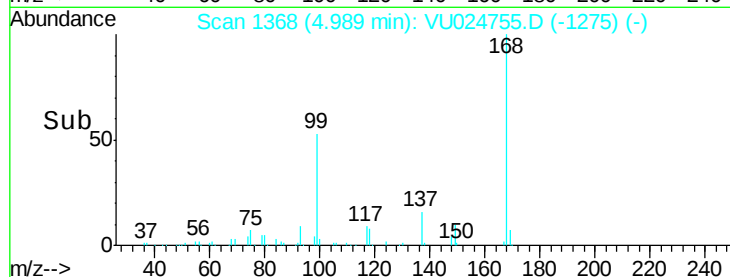
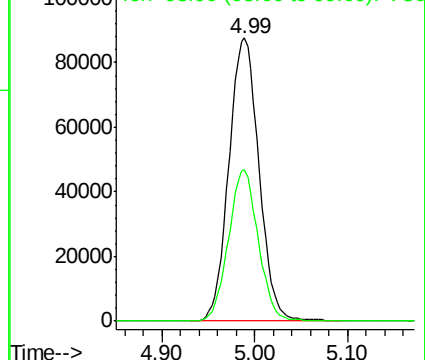
168 100

99 53.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024755.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024755.D (-1275) (-)



#33

1,2-Dichloroethane-d4

Concen: 44.28 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU024755.D

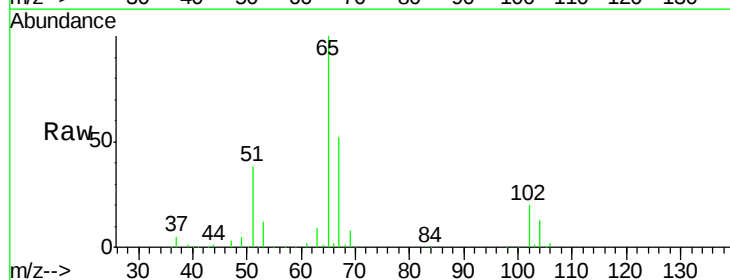
Acq: 20 Jun 2018 14:11

Tgt Ion: 65 Resp: 142660

Ion Ratio Lower Upper

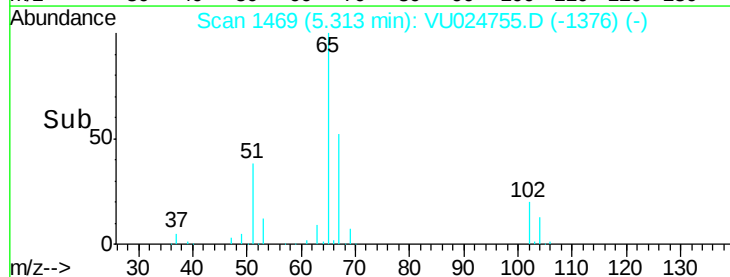
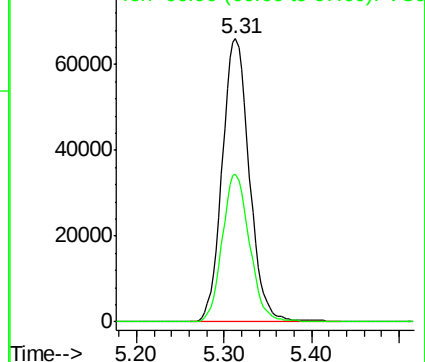
65 100

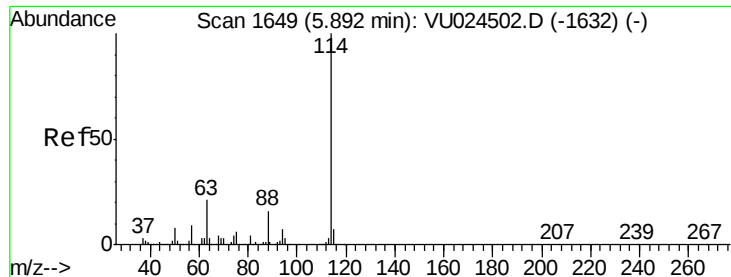
67 52.2 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU024755.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU024755.D (-1376) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU024755.D

Acq: 20 Jun 2018 14:11

Instrument :

MSVOA\_U

ClientSampleId :

547-TB061318

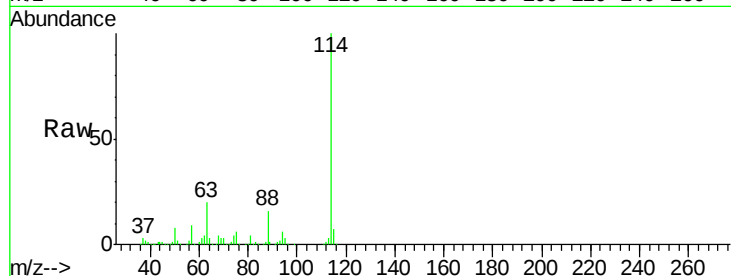
Tot Ion:114 Resp: 304620

Ion Ratio Lower Upper

114 100

63 20.5 0.0 45.4

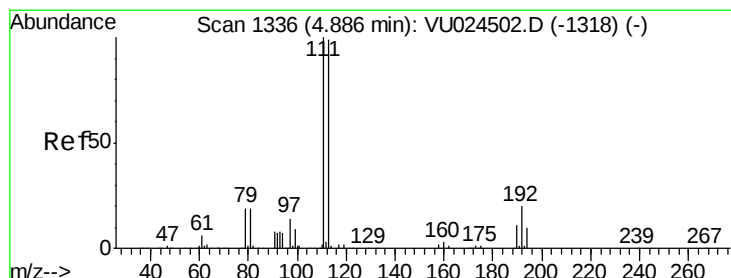
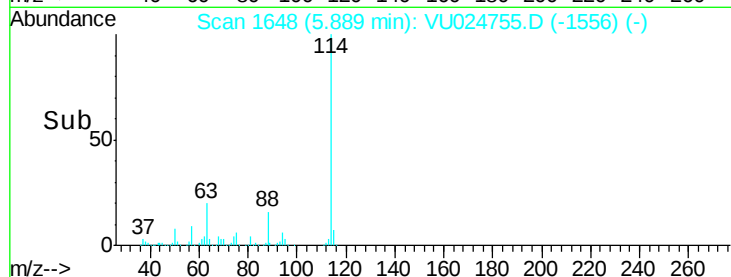
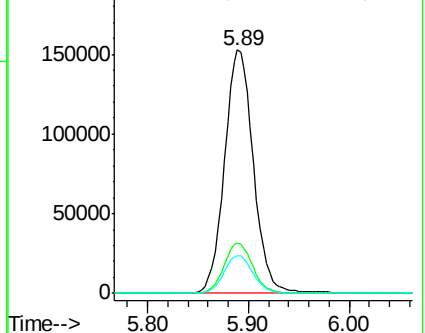
88 15.6 0.0 31.0



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: 47.38 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024755.D

Acq: 20 Jun 2018 14:11

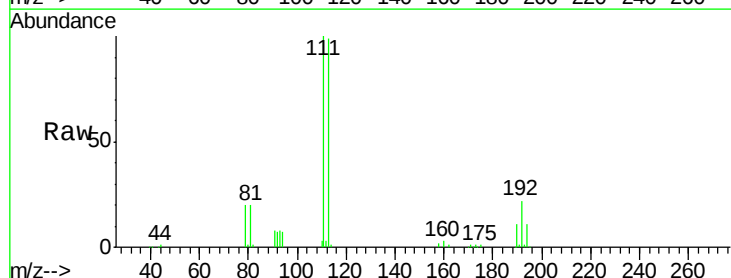
Tgt Ion:113 Resp: 119783

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

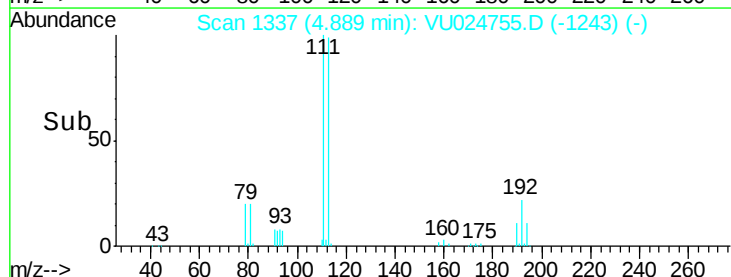
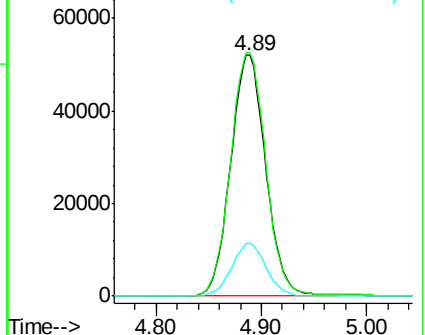
192 21.6 16.2 24.4



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: 47.73 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024755.D

Acq: 20 Jun 2018 14:11

Instrument :

MSVOA\_U

ClientSampleId :

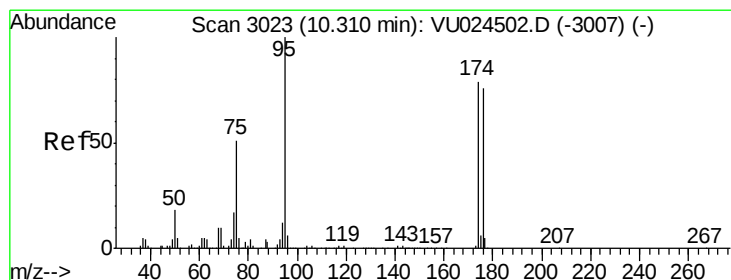
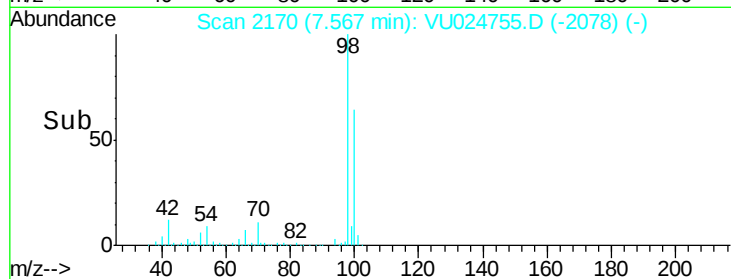
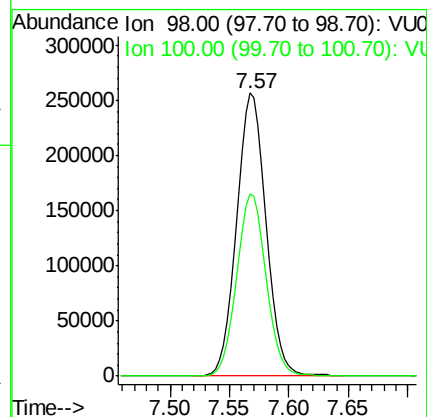
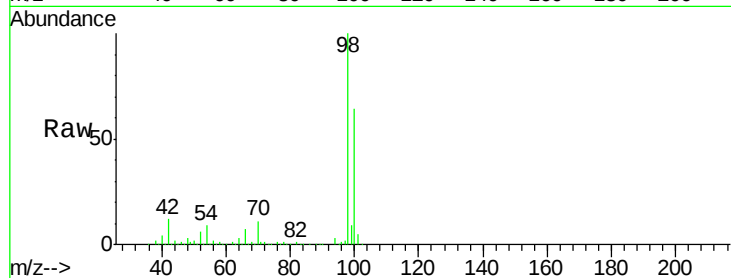
547-TB061318

Tot Ion: 98 Resp: 440109

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 44.11 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024755.D

Acq: 20 Jun 2018 14:11

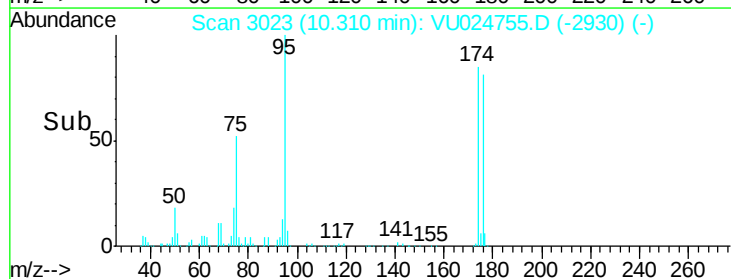
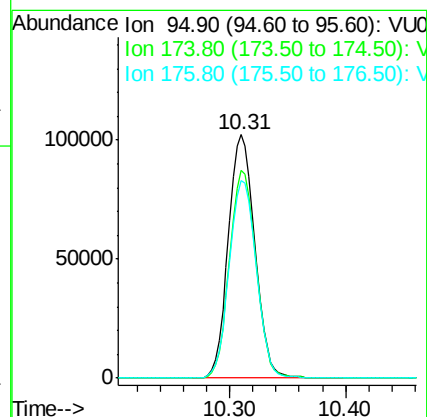
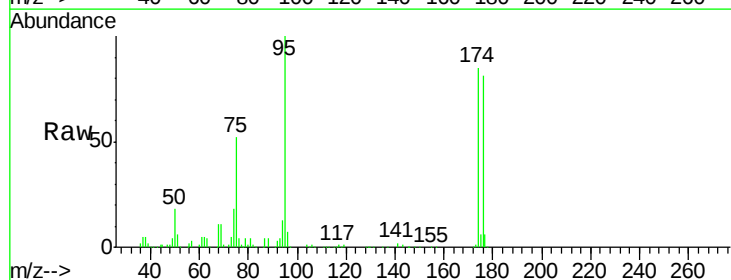
Tgt Ion: 95 Resp: 161489

Ion Ratio Lower Upper

95 100

174 85.3 0.0 165.8

176 82.8 0.0 159.4

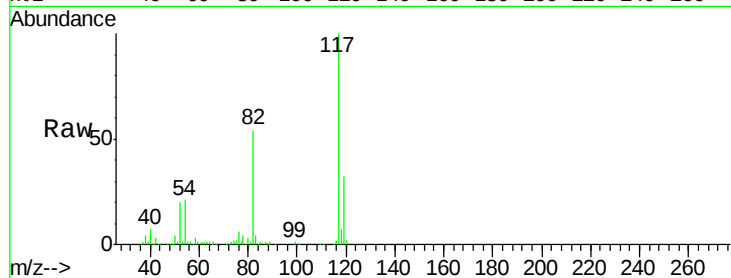




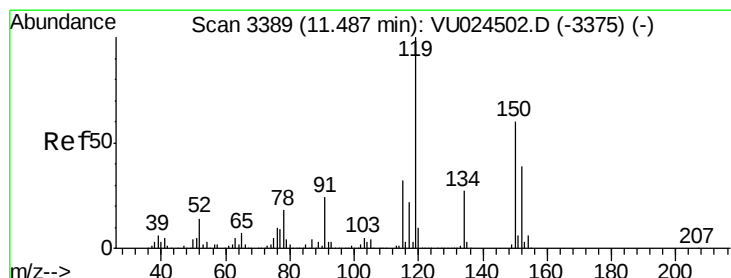
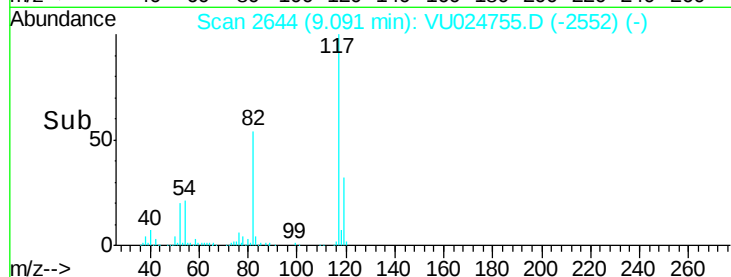
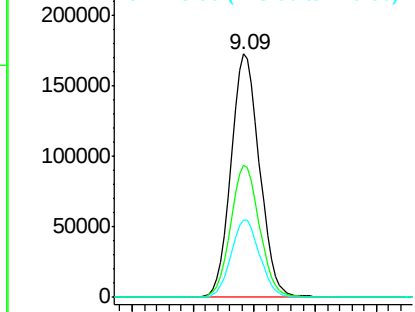
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2644  
Delta R.T. -0.00 min  
Lab File: VU024755.D  
Acq: 20 Jun 2018 14:11

Instrument :  
MSVOA\_U  
ClientSampleId :  
547-TB061318

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 44.3  | 66.5  |
| 119     | 31.8  | 25.4  | 38.2  |

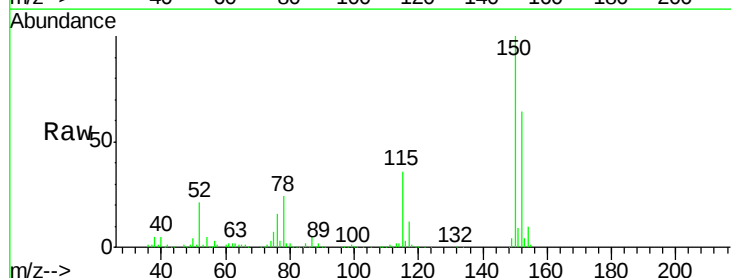


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 3389  
Delta R.T. 0.00 min  
Lab File: VU024755.D  
Acq: 20 Jun 2018 14:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.9  | 43.0  | 129.0 |
| 150     | 155.5 | 0.0   | 354.0 |



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

