

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU101018\  
 Data File : VU027535.D  
 Acq On : 09 Oct 2018 20:45  
 Operator : MD/SY  
 Sample : J5139-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FB-09-27-18

Quant Time: Oct 10 06:55:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 02:04:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 119441   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 193712   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 170560   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 68657    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 99310    | 49.79 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.58%  |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 68422    | 51.54 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.08% |      |
| 50) Toluene-d8              | 7.57   | 98  | 247696   | 49.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.70%  |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 77030    | 41.72 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 83.44%  |      |

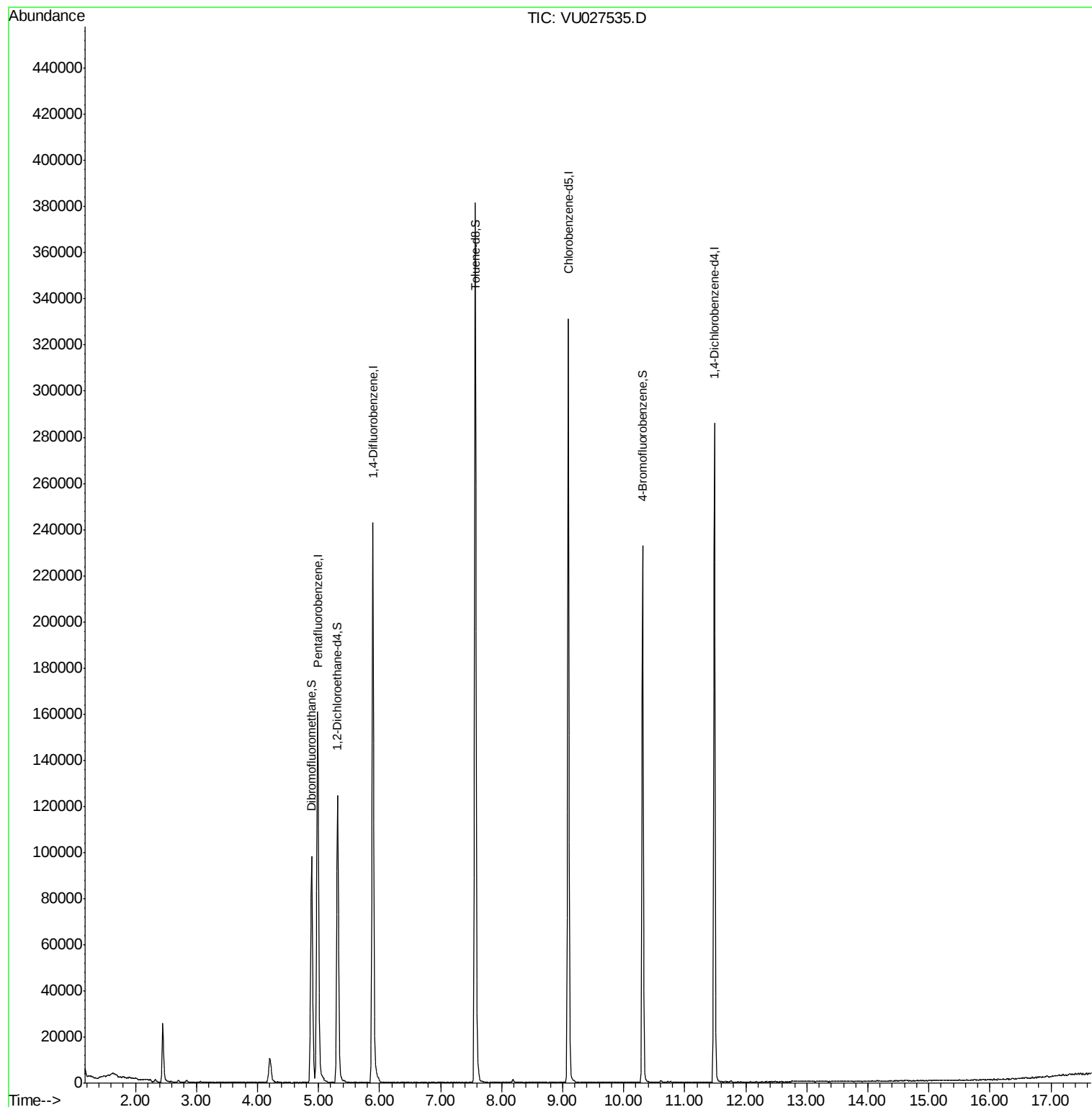
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

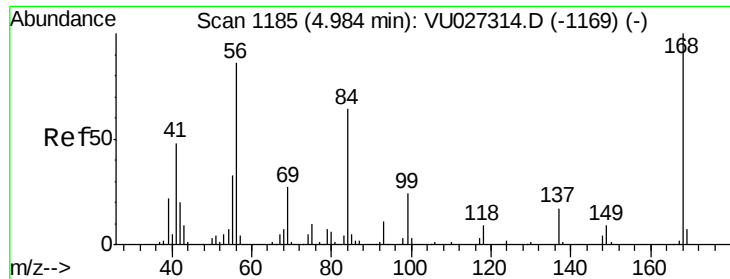
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
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FB-09-27-18

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 02:04:34 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: VU027535.D

Acq: 09 Oct 2018 20:45

Instrument :

MSVOA\_U

ClientSampleId :

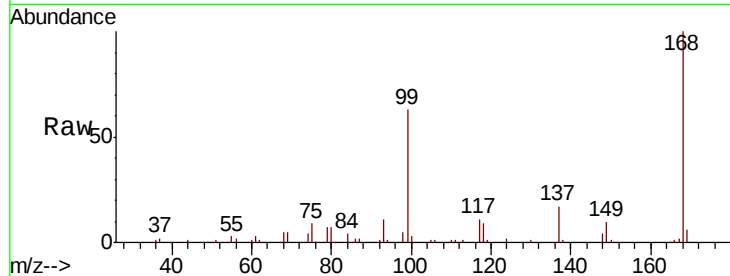
FB-09-27-18

Tgt Ion:168 Resp: 119441

Ion Ratio Lower Upper

168 100

99 62.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

50000

40000

30000

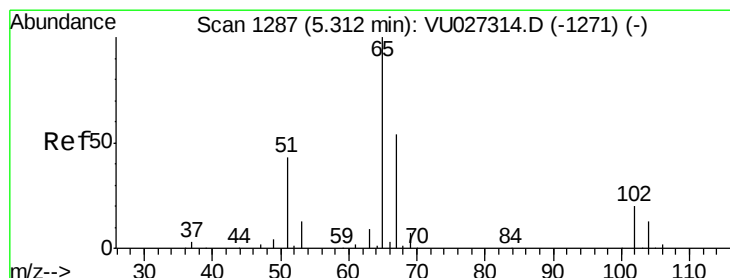
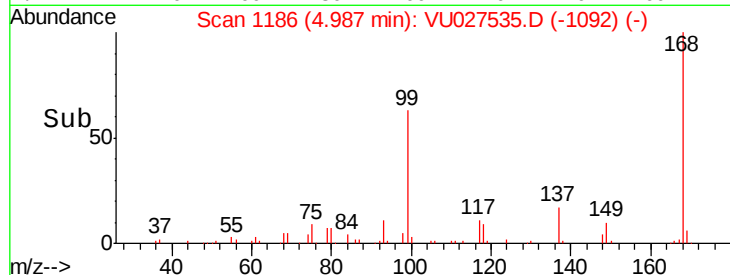
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.793 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027535.D

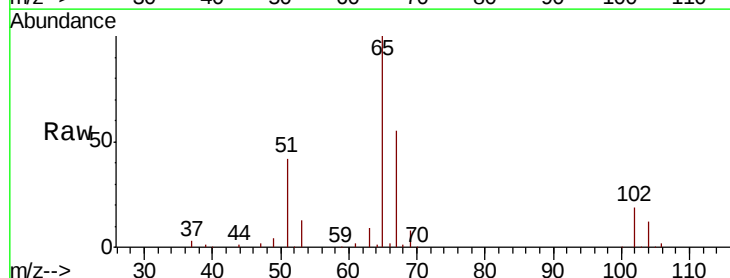
Acq: 09 Oct 2018 20:45

Tgt Ion: 65 Resp: 99310

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VU027314.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU027314.D (-1271) (-)

5.31

50000

40000

30000

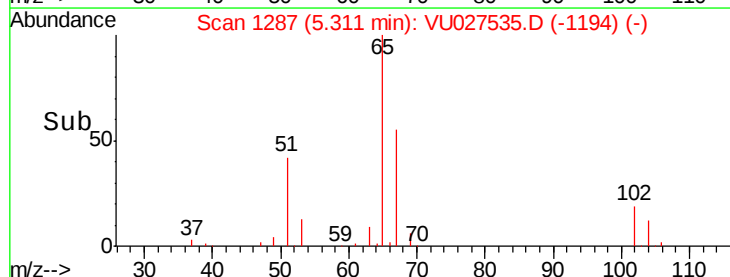
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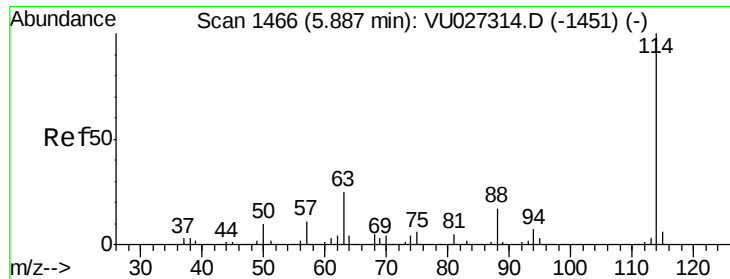
10000

0

5.20 5.30 5.40 5.50

Time-->

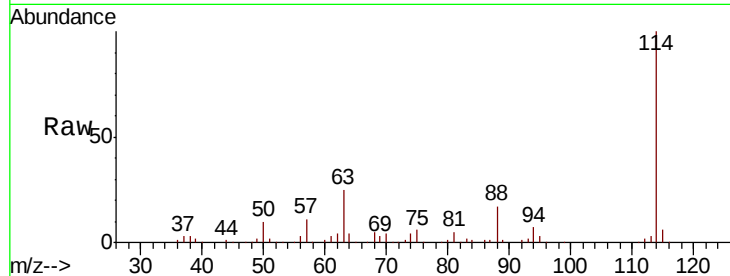




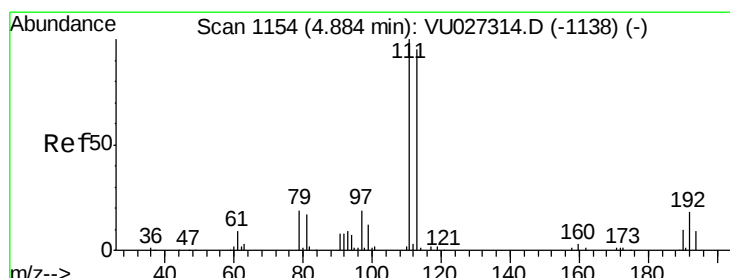
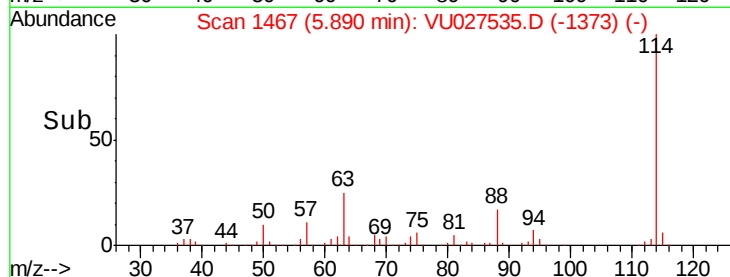
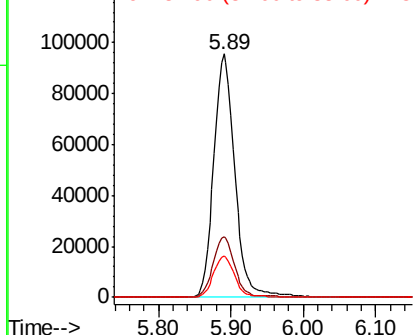
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FB-09-27-18

Tgt Ion:114 Resp: 193712  
 Ion Ratio Lower Upper  
 114 100  
 63 25.0 0.0 50.2  
 88 16.9 0.0 33.8

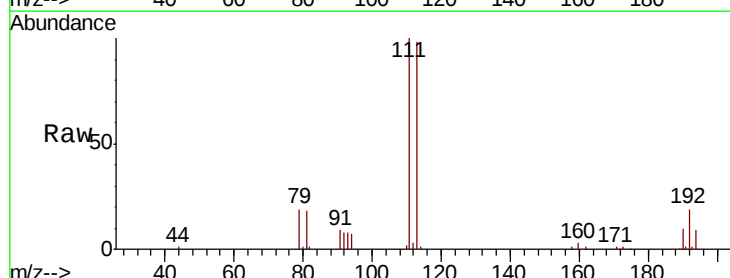


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

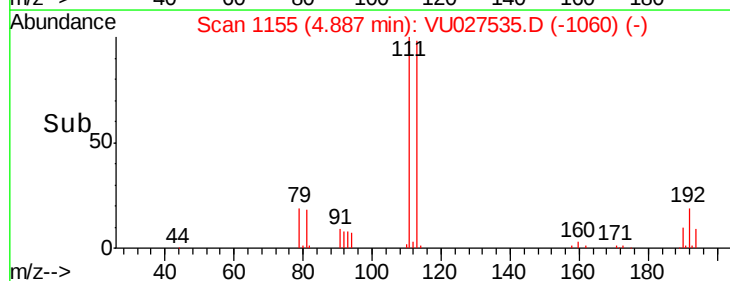
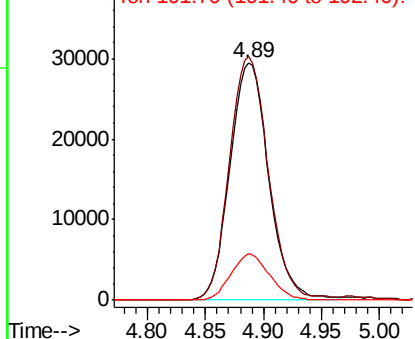


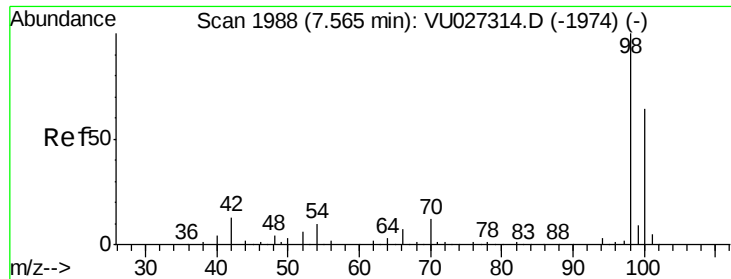
#35  
 Dibromofluoromethane  
 Concen: 51.539 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Tgt Ion:113 Resp: 68422  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 83.1 124.7  
 192 19.3 15.4 23.0



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

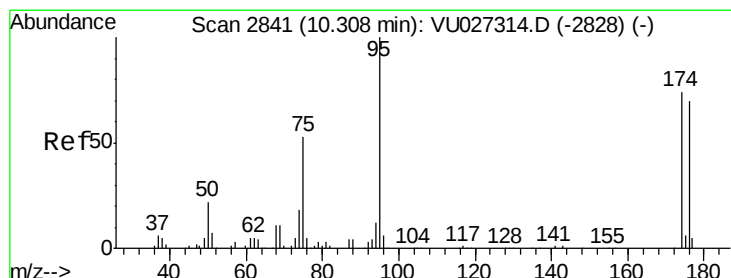
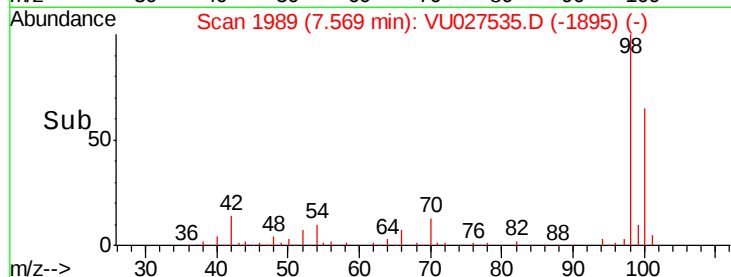
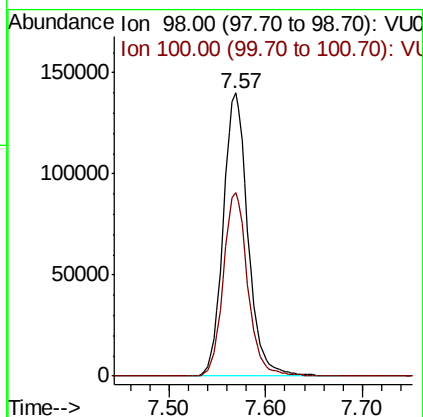
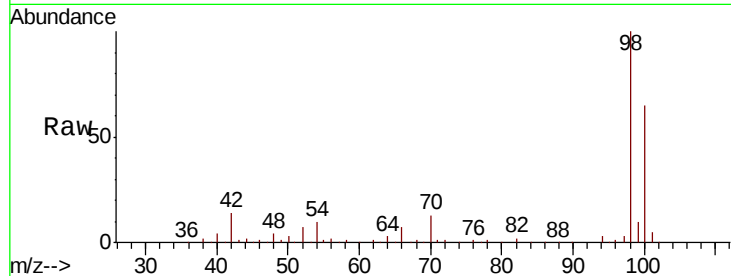




#50  
Toluene-d8  
Concen: 49.852 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

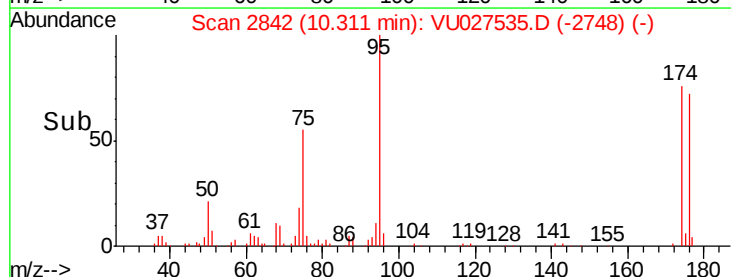
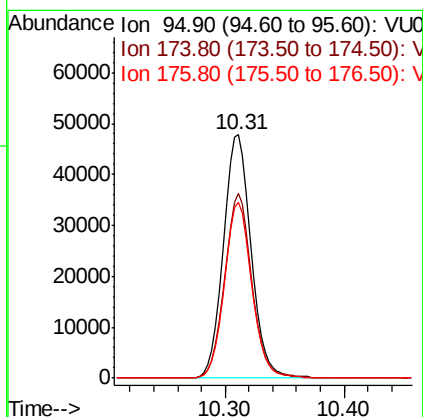
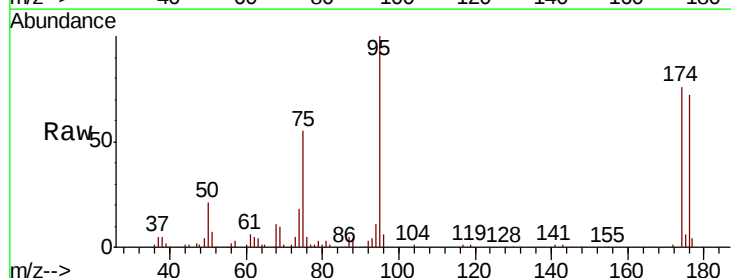
Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

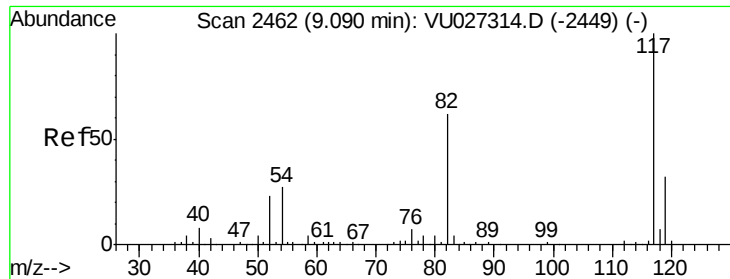
Tgt Ion: 98 Resp: 247696  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 41.716 ug/l  
RT: 10.31 min Scan# 2842  
Delta R.T. 0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Tgt Ion: 95 Resp: 77030  
Ion Ratio Lower Upper  
95 100  
174 74.7 0.0 147.8  
176 71.4 0.0 140.8

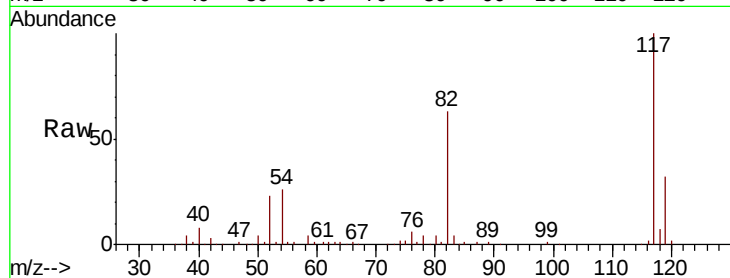




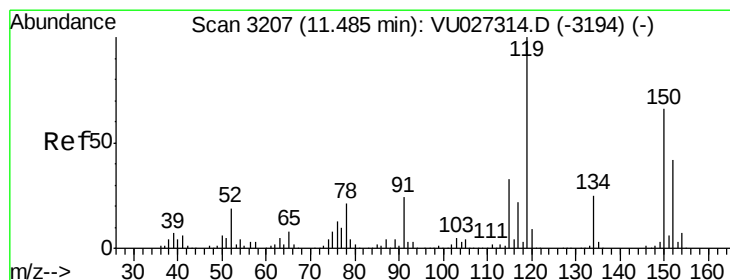
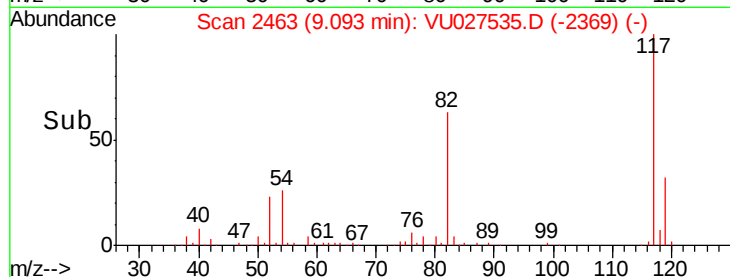
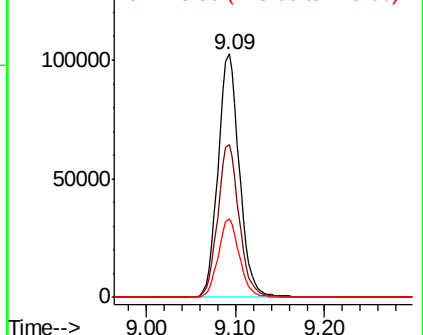
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

Tgt Ion:117 Resp: 170560  
Ion Ratio Lower Upper  
117 100  
82 62.7 49.2 73.8  
119 32.0 25.7 38.5

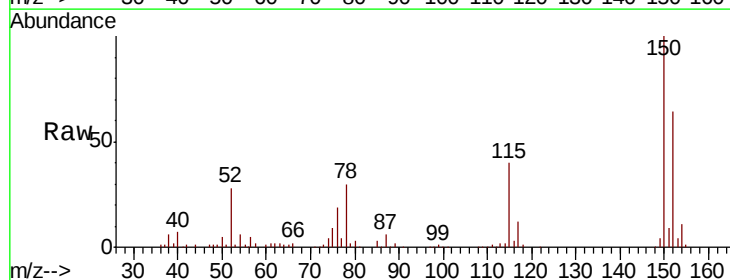


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Tgt Ion:152 Resp: 68657  
Ion Ratio Lower Upper  
152 100  
115 61.6 43.4 130.2  
150 156.0 0.0 349.2



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

