

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU012119\  
 Data File : VU029236.D  
 Acq On : 21 Jan 2019 10:01  
 Operator : JC/SP  
 Sample : VU0121WBL01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0121WBL01

Quant Time: Jan 22 01:23:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 12 01:33:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 116334   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.88  | 114  | 198351   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 182375   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 73839    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 75184    | 52.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.56% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 67042    | 52.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.28% |      |
| 50) Toluene-d8              | 7.56   | 98  | 253768   | 49.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.98%  |      |
| 62) 4-Bromofluorobenzene    | 10.30  | 95  | 79941    | 43.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.64%  |      |

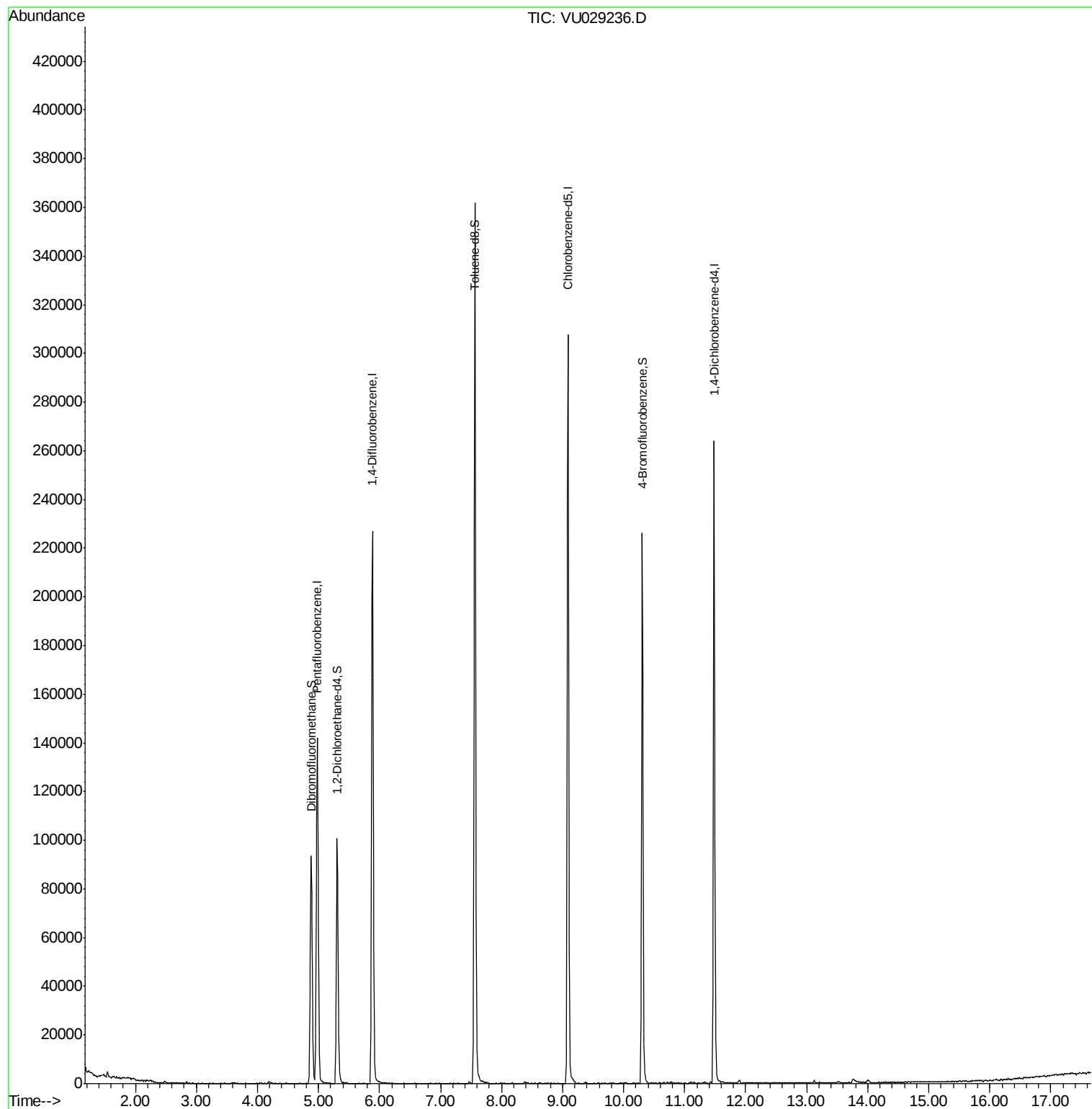
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

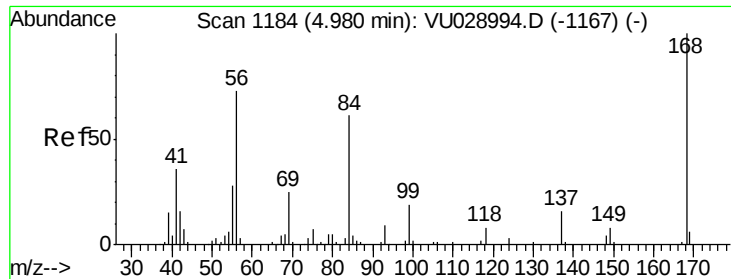
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
ClientSampleId :  
VU0121WBL01

Quant Time: Jan 22 01:23:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 12 01:33:59 2019  
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: VU029236.D

Acq: 21 Jan 2019 10:01

Instrument :

MSVOA\_U

ClientSampleId :

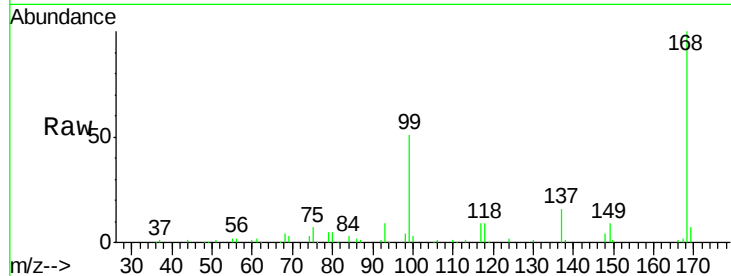
VU0121WBL01

Tot Ion:168 Resp: 116334

Ion Ratio Lower Upper

168 100

99 50.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

60000

50000

40000

30000

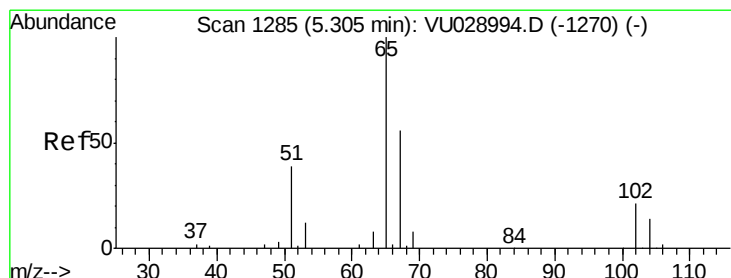
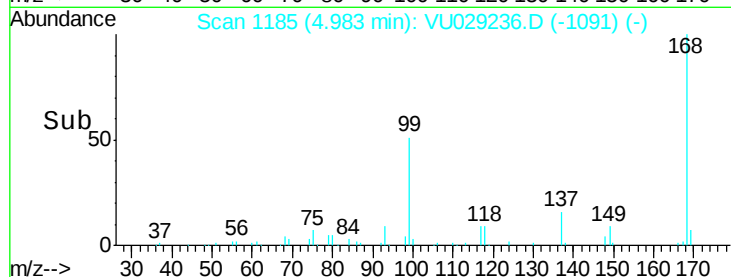
20000

10000

0

Time-->

4.90 5.00 5.10



#33

1,2-Dichloroethane-d4

Concen: 52.279 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029236.D

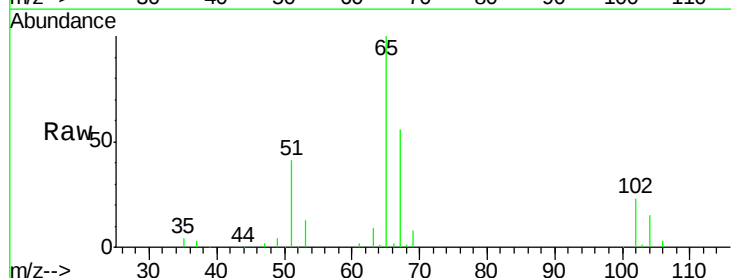
Acq: 21 Jan 2019 10:01

Tgt Ion: 65 Resp: 75184

Ion Ratio Lower Upper

65 100

67 56.0 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU028994.D (-1270) (-)

Ion 66.90 (66.60 to 67.60): VU028994.D (-1270) (-)

5.31

40000

30000

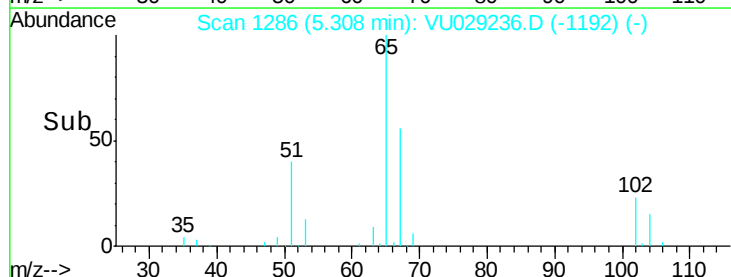
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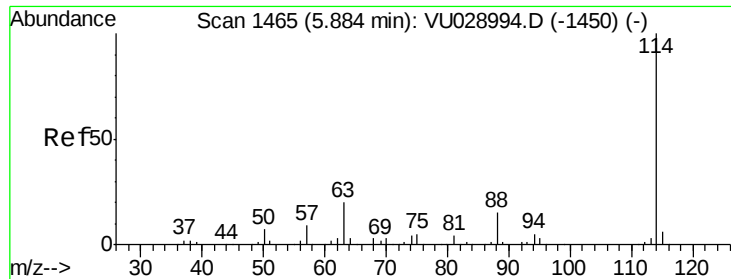
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0

Time-->

5.20 5.30 5.40

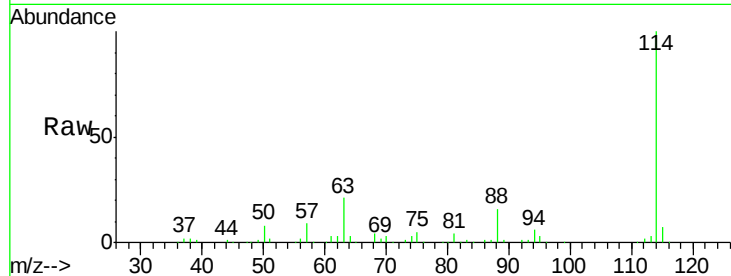




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1465  
 Delta R.T. -0.00 min  
 Lab File: VU029236.D  
 Acq: 21 Jan 2019 10:01

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0121WBL01

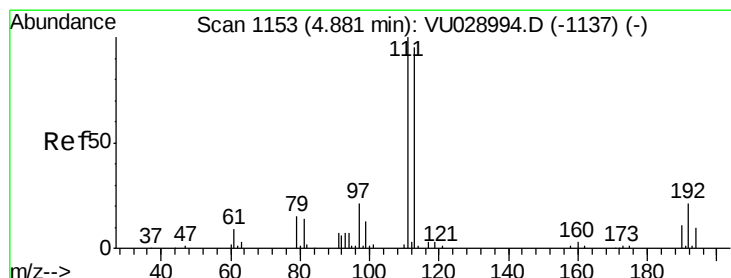
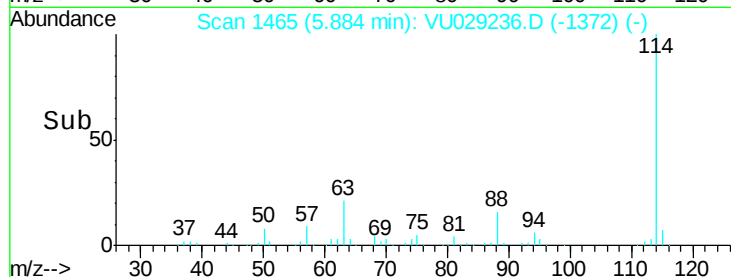
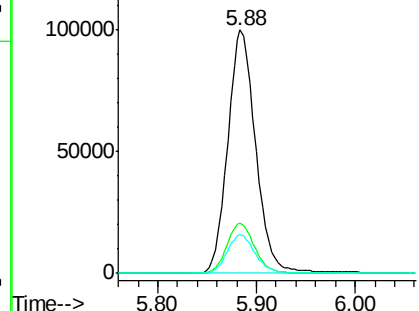
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.7  | 0.0   | 40.2  |
| 88      | 15.8  | 0.0   | 30.4  |



Abundance Ion 113.90 (113.60 to 114.60): V

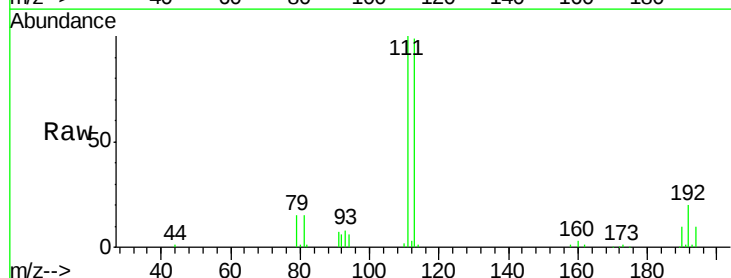
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35  
 Dibromofluoromethane  
 Concen: 52.142 ug/l  
 RT: 4.88 min Scan# 1153  
 Delta R.T. -0.00 min  
 Lab File: VU029236.D  
 Acq: 21 Jan 2019 10:01

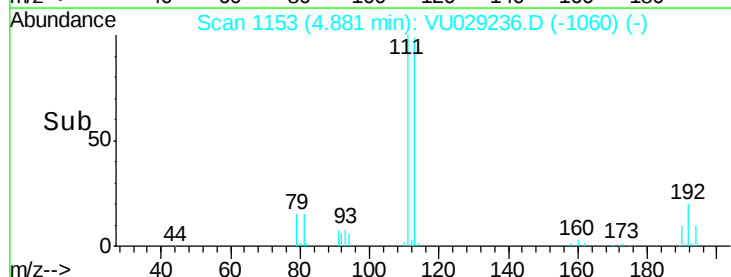
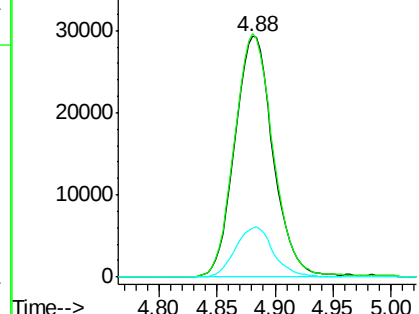
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 81.4  | 122.2 |
| 192     | 20.5  | 16.8  | 25.2  |

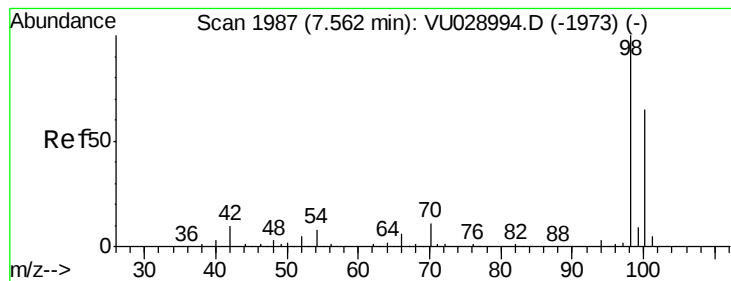


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 49.993 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU029236.D

Acq: 21 Jan 2019 10:01

Instrument :

MSVOA\_U

ClientSampleId :

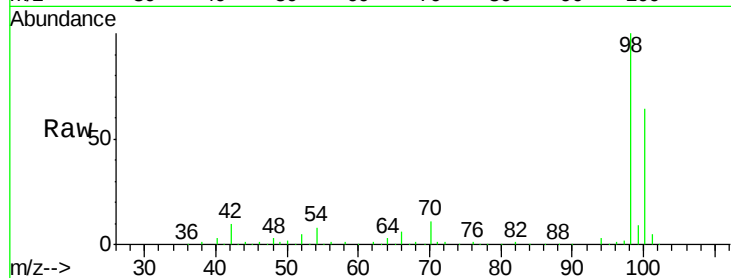
VU0121WBL01

Tot Ion: 98 Resp: 253768

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028994.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028994.D (-1973) (-)

7.56

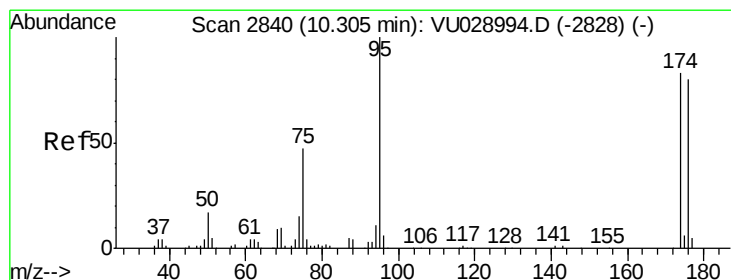
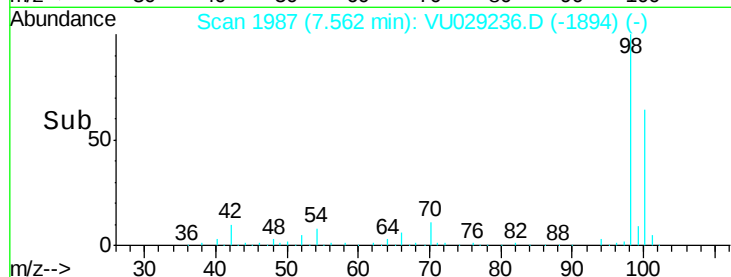
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.822 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU029236.D

Acq: 21 Jan 2019 10:01

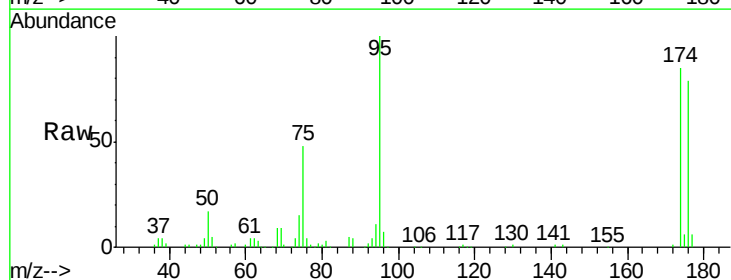
Tgt Ion: 95 Resp: 79941

Ion Ratio Lower Upper

95 100

174 85.4 0.0 170.6

176 81.5 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU028994.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028994.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028994.D (-2828) (-)

10.30

60000

50000

40000

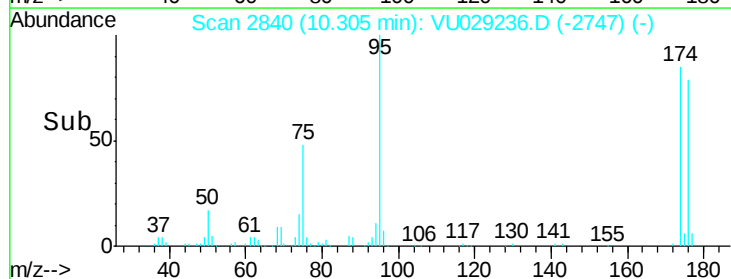
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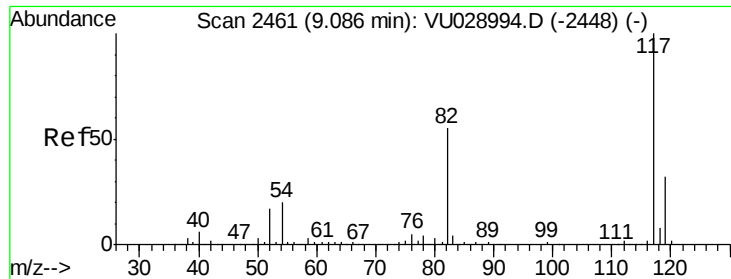
20000

10000

0

Time-->

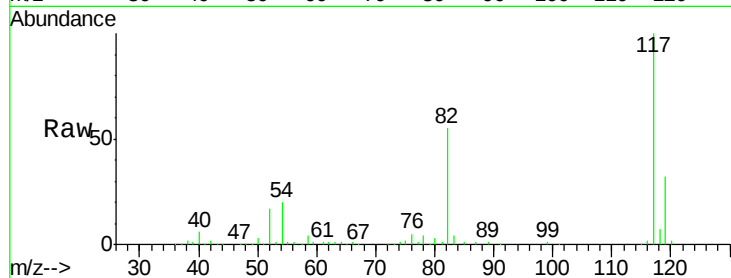




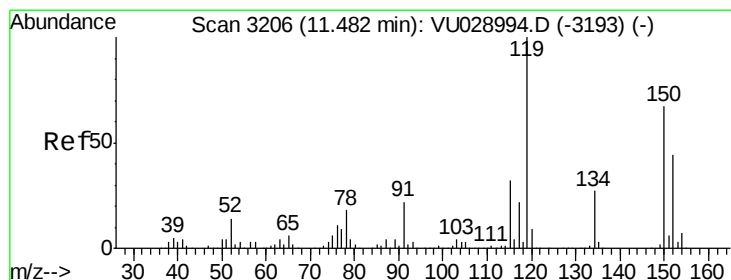
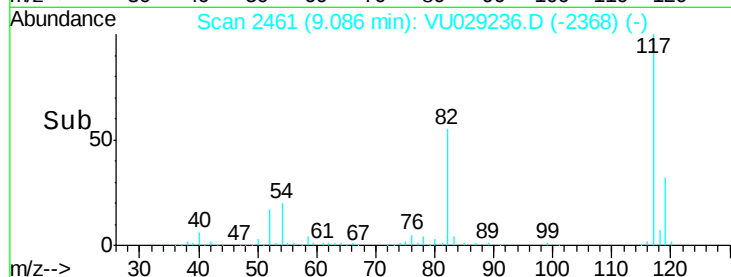
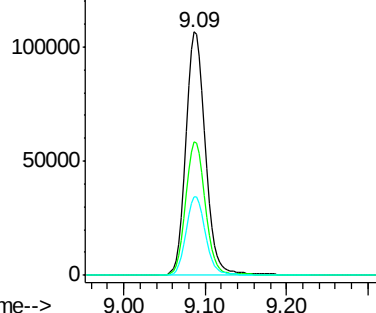
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2461  
Delta R.T. -0.00 min  
Lab File: VU029236.D  
Acq: 21 Jan 2019 10:01

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0121WBL01

Tot Ion:117 Resp: 182375  
Ion Ratio Lower Upper  
117 100  
82 54.7 43.9 65.9  
119 32.3 26.0 39.0

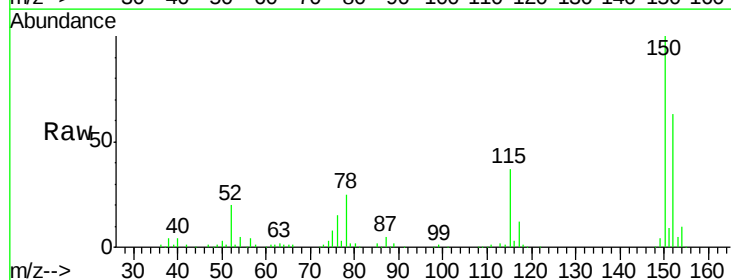


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3206  
Delta R.T. -0.00 min  
Lab File: VU029236.D  
Acq: 21 Jan 2019 10:01

Tgt Ion:152 Resp: 73839  
Ion Ratio Lower Upper  
152 100  
115 58.3 40.1 120.3  
150 157.8 0.0 345.2



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

