

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092318\  
 Data File : VU027088.D  
 Acq On : 23 Sep 2018 21:29  
 Operator : MD/SY  
 Sample : J4954-10  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 132 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-SW204-20180914

Quant Time: Sep 24 09:04:15 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  | 100980   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 171001   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 164476   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 75044    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 107251   | 52.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.54% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 73688    | 49.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.42%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 275911   | 48.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.68%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 90238    | 46.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 93.12%  |          |

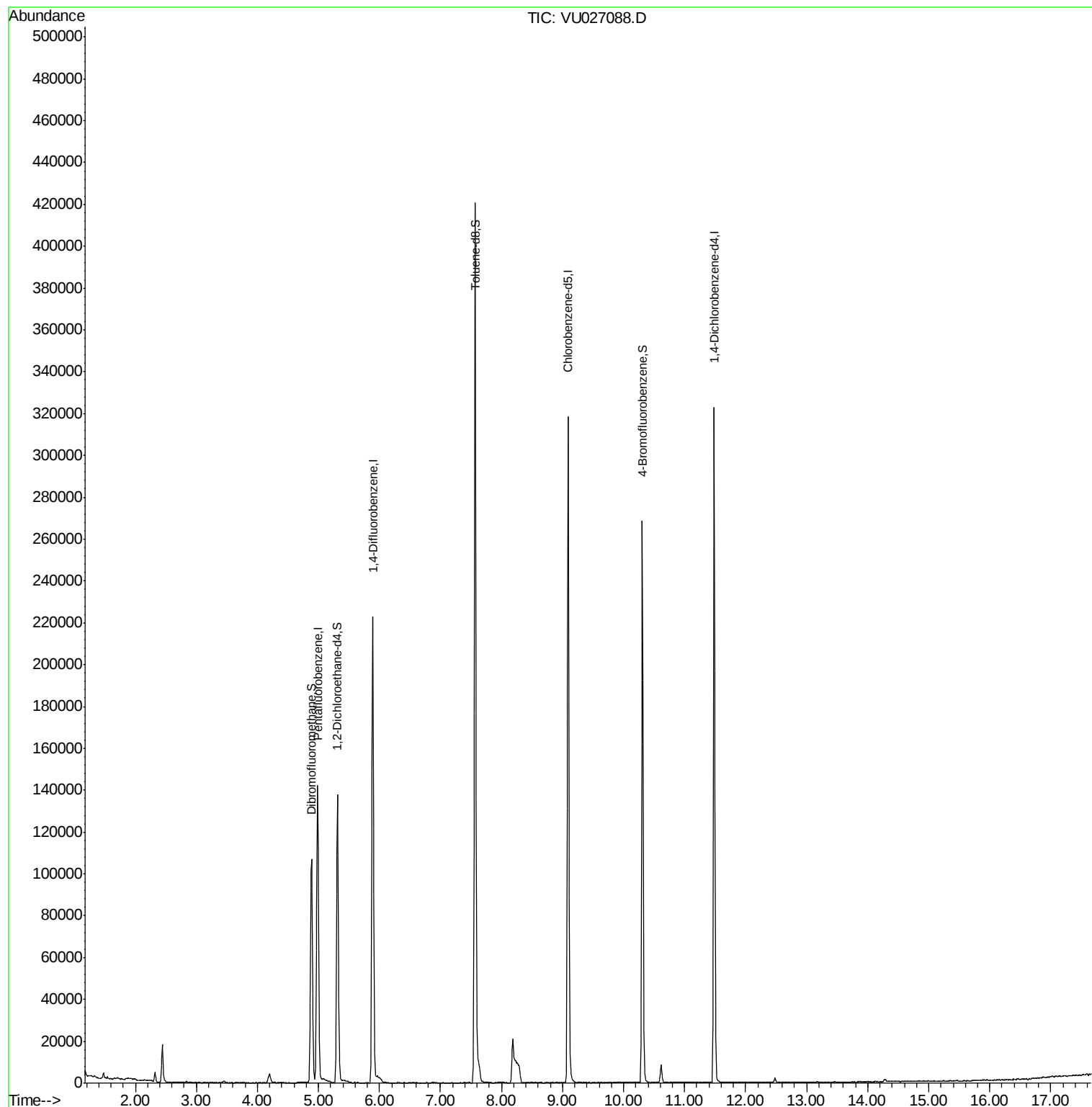
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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SA-SW204-20180914

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
Quant Title : SW846 8260  
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: VU027088.D

Acq: 23 Sep 2018 21:29

Instrument :

MSVOA\_U

ClientSampleId :

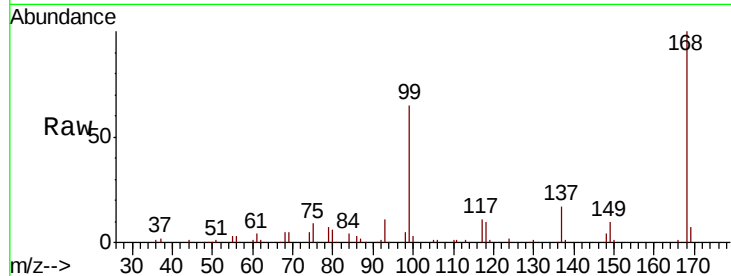
SA-SW204-20180914

Tot Ion:168 Resp: 100980

Ion Ratio Lower Upper

168 100

99 64.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

50000

40000

30000

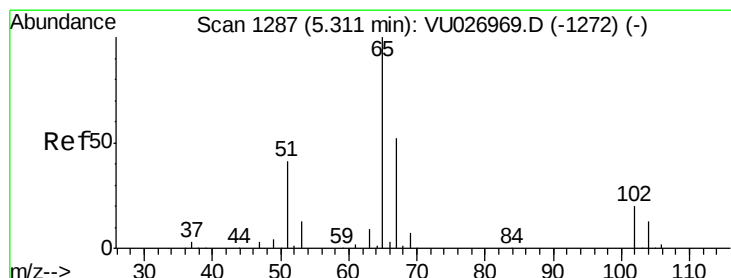
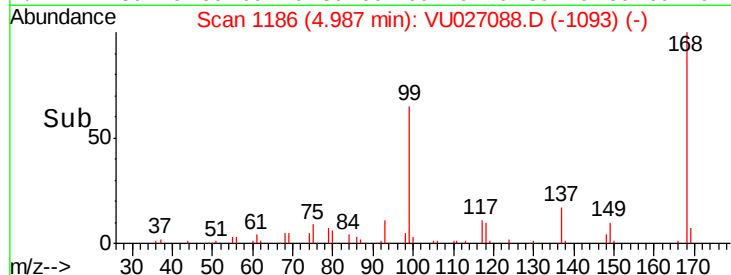
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.771 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027088.D

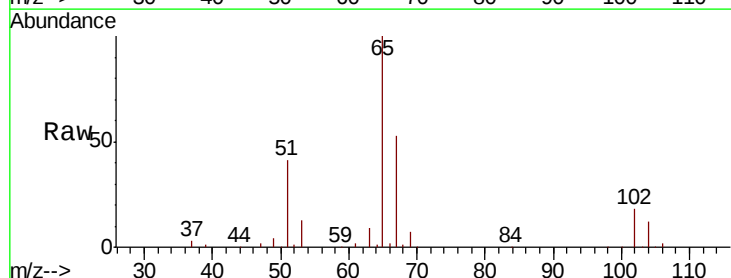
Acq: 23 Sep 2018 21:29

Tgt Ion: 65 Resp: 107251

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

5.31

60000

50000

40000

30000

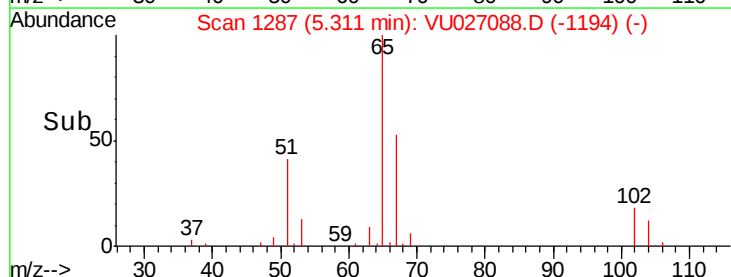
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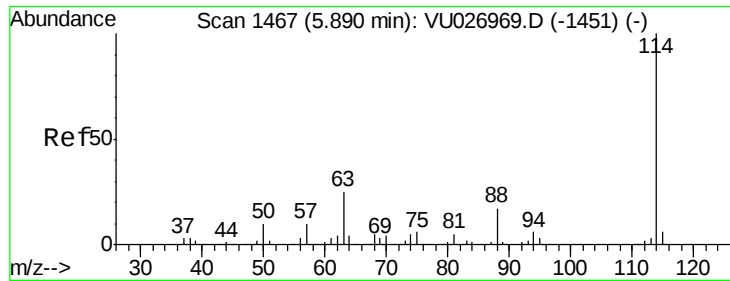
10000

0

5.25 5.30 5.35 5.40

Time-->

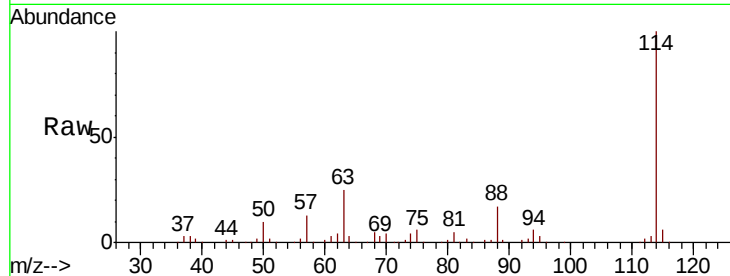




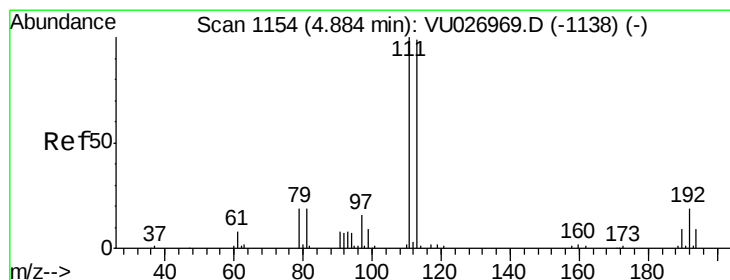
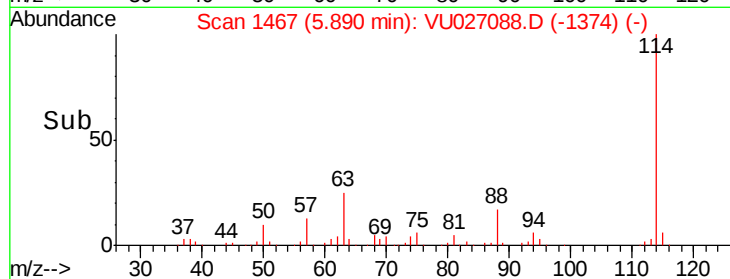
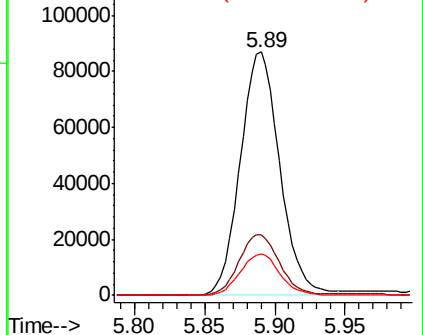
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027088.D  
 Acq: 23 Sep 2018 21:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-SW204-20180914

Tot Ion:114 Resp: 171001  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 49.2  
 88 17.0 0.0 33.8

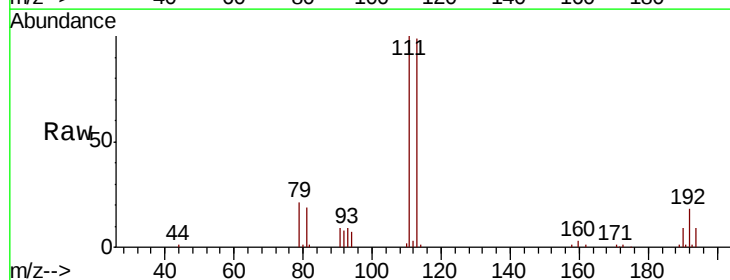


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

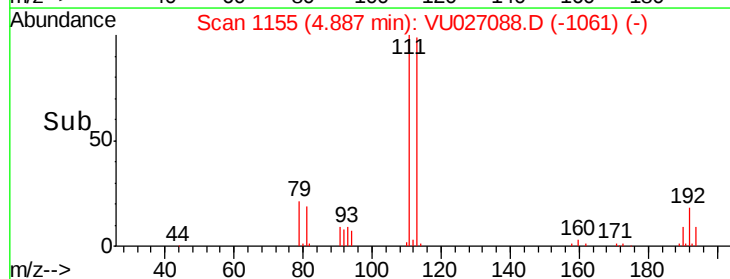
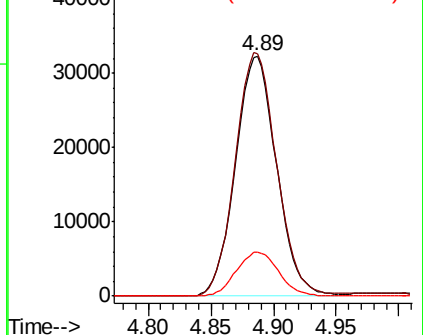


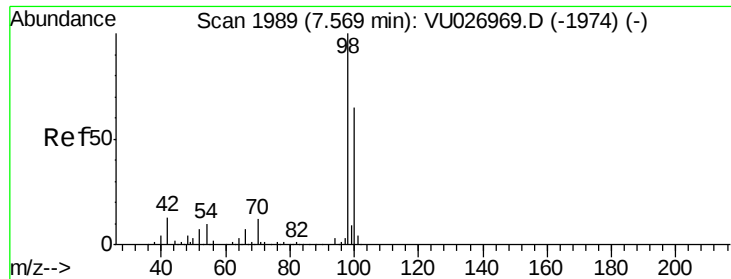
#35  
 Dibromofluoromethane  
 Concen: 49.714 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027088.D  
 Acq: 23 Sep 2018 21:29

Tgt Ion:113 Resp: 73688  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 82.2 123.4  
 192 18.7 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: 48.844 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU027088.D

Acq: 23 Sep 2018 21:29

Instrument :

MSVOA\_U

ClientSampleId :

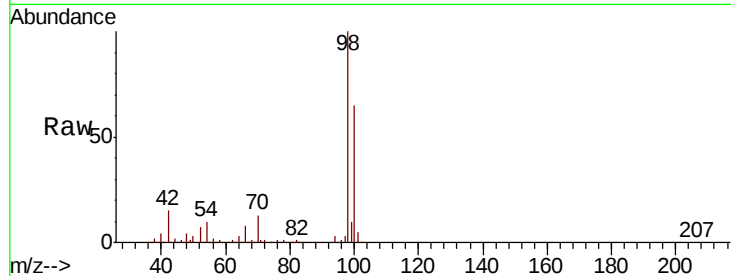
SA-SW204-20180914

Tot Ion: 98 Resp: 275911

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1



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

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

150000

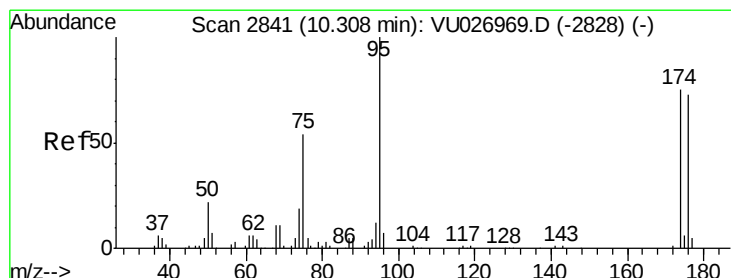
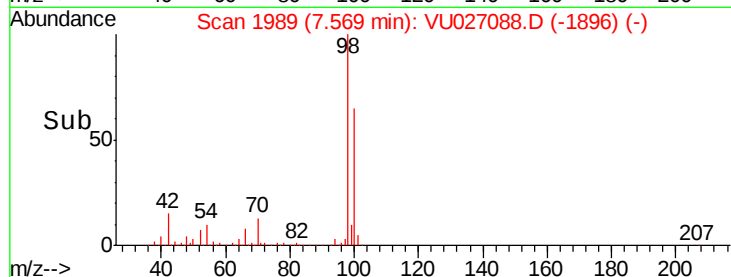
100000

50000

0

7.50 7.60 7.70

Time-->



#62

4-Bromofluorobenzene

Concen: 46.555 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027088.D

Acq: 23 Sep 2018 21:29

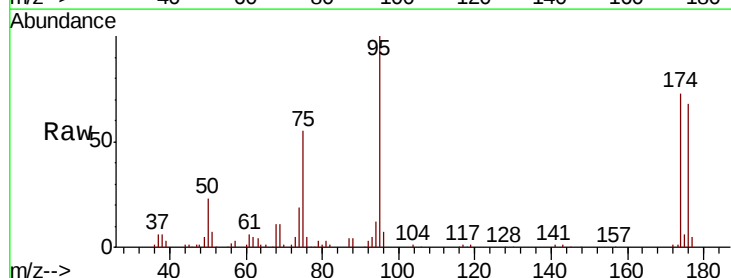
Tgt Ion: 95 Resp: 90238

Ion Ratio Lower Upper

95 100

174 73.3 0.0 150.2

176 68.3 0.0 145.2



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

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

10.31

60000

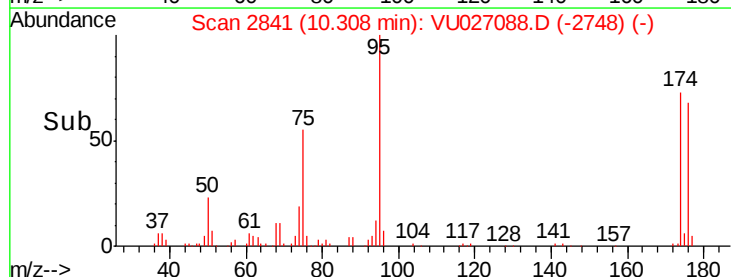
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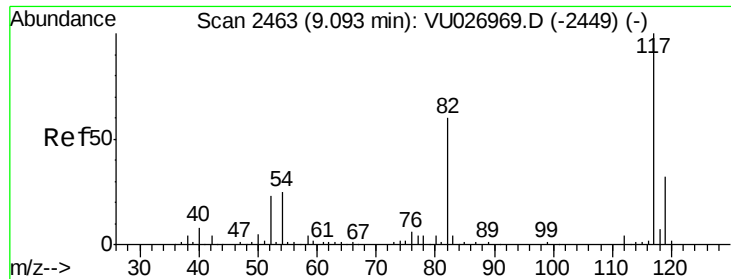
20000

0

10.30 10.40

Time-->

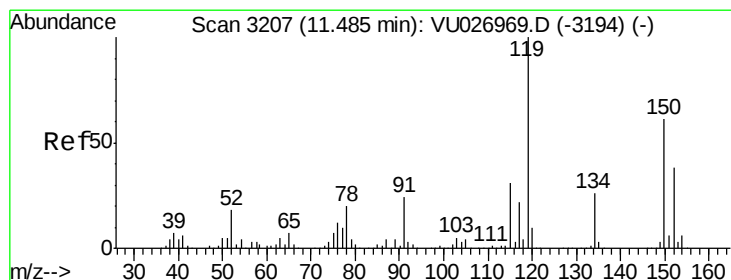
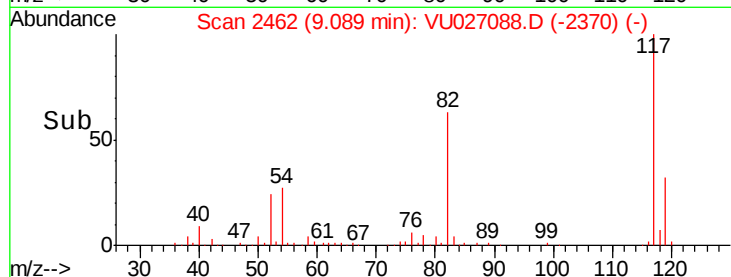
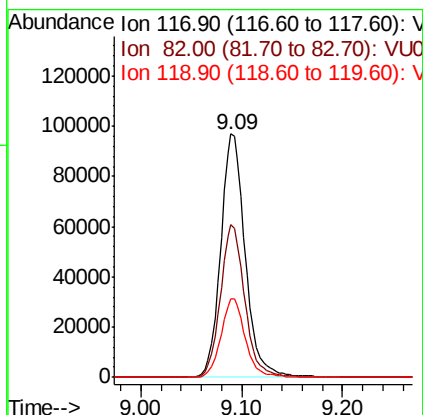
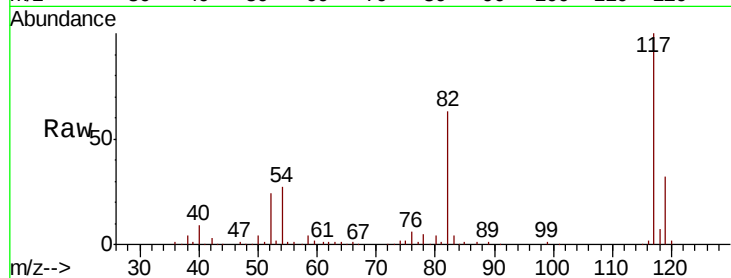




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU027088.D  
Acq: 23 Sep 2018 21:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-SW204-20180914

Tot Ion:117 Resp: 164476  
Ion Ratio Lower Upper  
117 100  
82 62.9 48.0 72.0  
119 32.2 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027088.D  
Acq: 23 Sep 2018 21:29

Tgt Ion:152 Resp: 75044  
Ion Ratio Lower Upper  
152 100  
115 61.1 44.9 134.5  
150 158.9 0.0 355.8

