

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\  
 Data File : VU034161.D  
 Acq On : 01 Sep 2019 12:13  
 Operator : JC/SP  
 Sample : K4648-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TRIP-BLANK

Quant Time: Sep 02 08:45:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 435672   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.86  | 114  | 694497   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 671947   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 332009   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.29  | 65   | 282055   | 50.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.06% |          |
| 35) Dibromofluoromethane    | 4.86  | 113  | 232190   | 48.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.40%  |          |
| 50) Toluene-d8              | 7.55  | 98   | 889744   | 49.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.66%  |          |
| 62) 4-Bromofluorobenzene    | 10.29 | 95   | 308513   | 43.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.94%  |          |

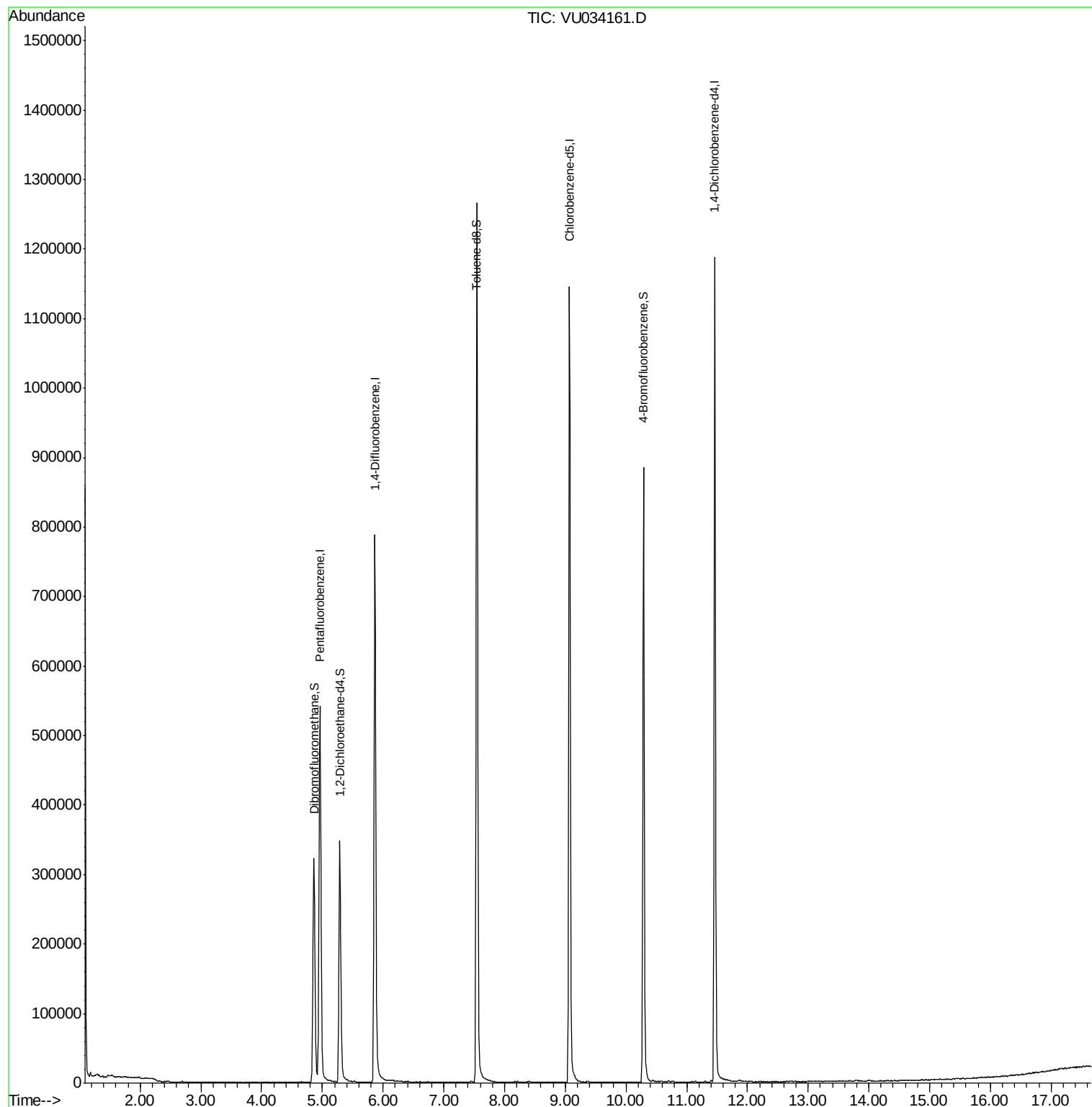
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

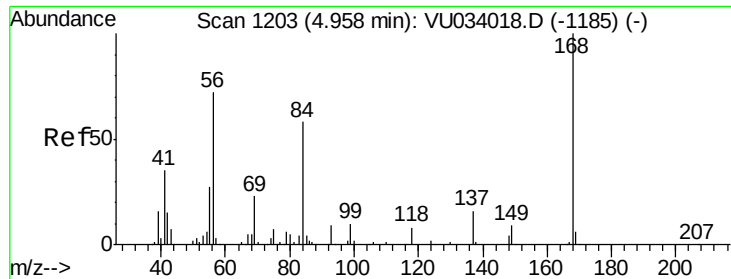
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 02 08:45:03 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 29 04:11:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034161.D

Acq: 01 Sep 2019 12:13

Instrument :

MSVOA\_U

ClientSampleId :

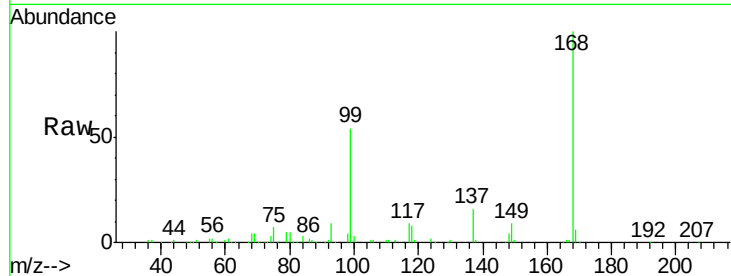
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Tot Ion:168 Resp: 435672

Ion Ratio Lower Upper

168 100

99 53.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034161.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034161.D (-1185) (-)

4.96

200000

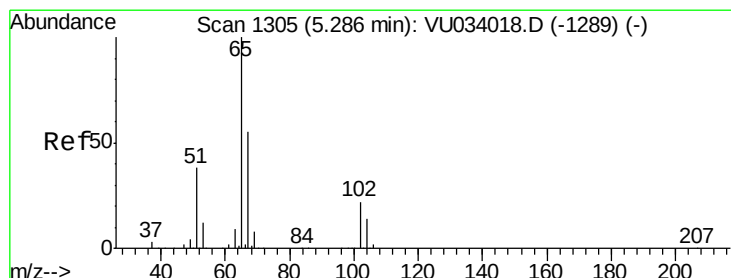
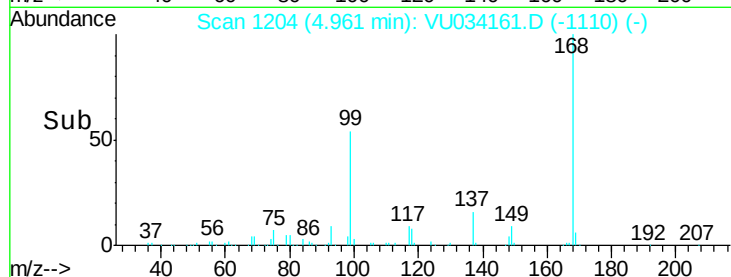
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.525 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034161.D

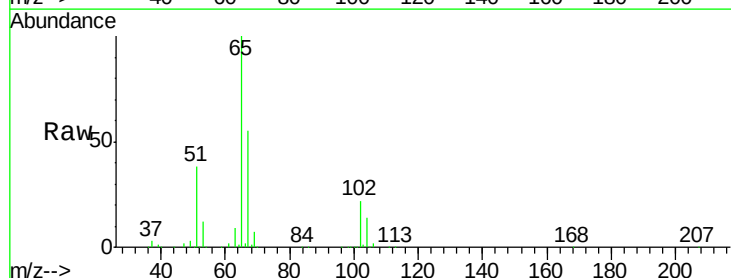
Acq: 01 Sep 2019 12:13

Tgt Ion: 65 Resp: 282055

Ion Ratio Lower Upper

65 100

67 54.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034161.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034161.D (-1289) (-)

5.29

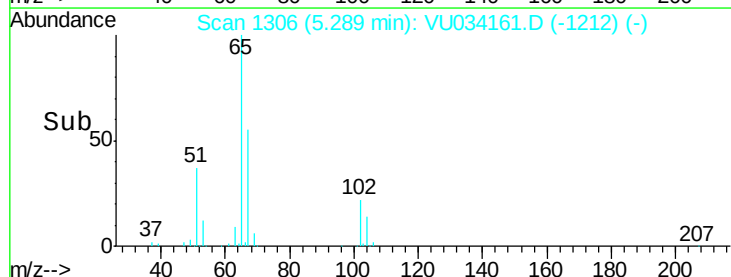
150000

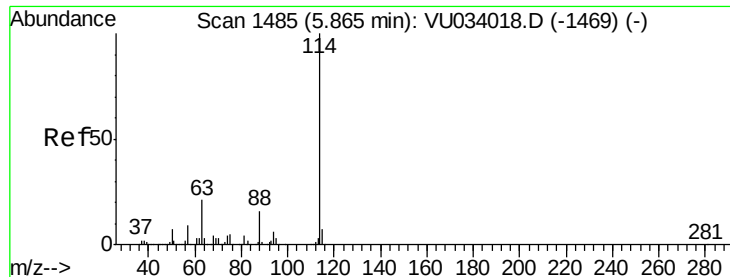
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034161.D

Acq: 01 Sep 2019 12:13

Instrument :

MSVOA\_U

ClientSampleId :

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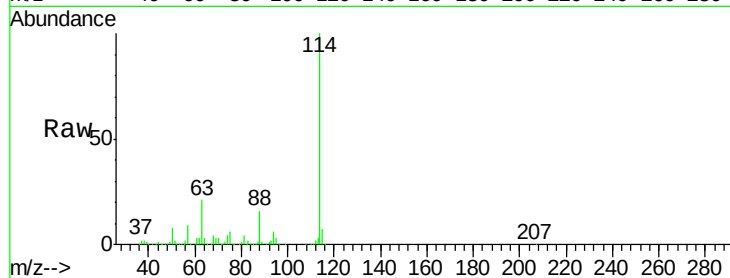
Tot Ion:114 Resp: 694497

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.0

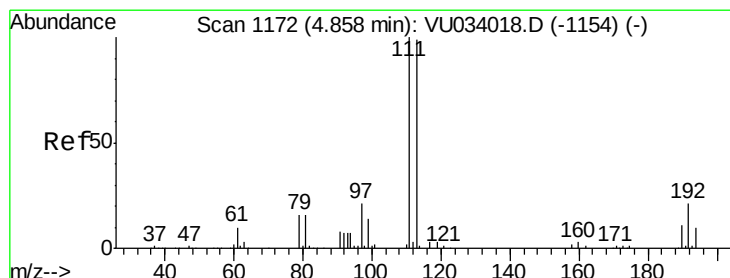
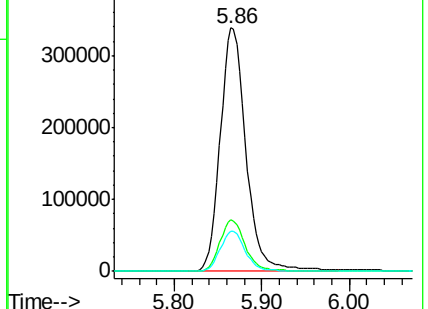
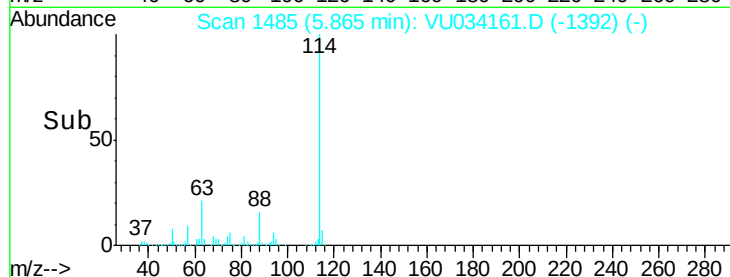
88 16.3 0.0 32.0



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: 48.203 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034161.D

Acq: 01 Sep 2019 12:13

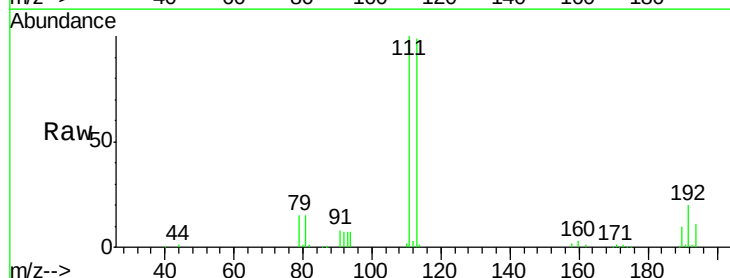
Tgt Ion:113 Resp: 232190

Ion Ratio Lower Upper

113 100

111 101.6 81.7 122.5

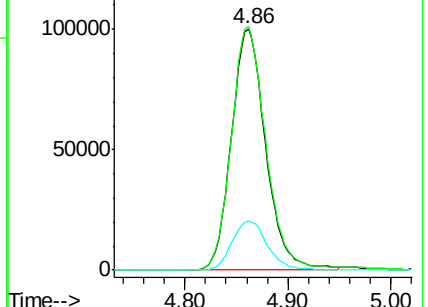
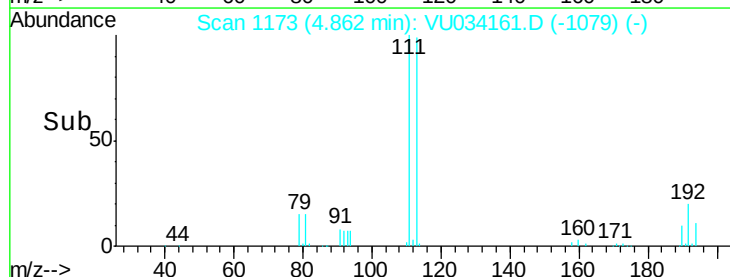
192 21.3 17.1 25.7

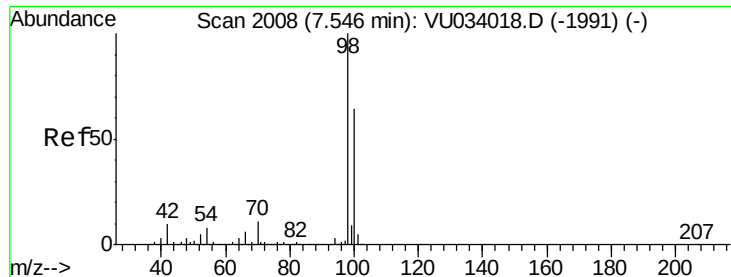


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

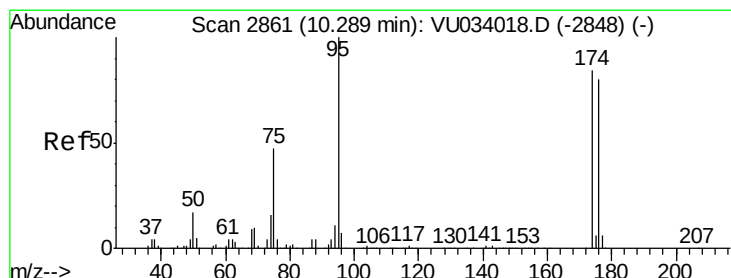
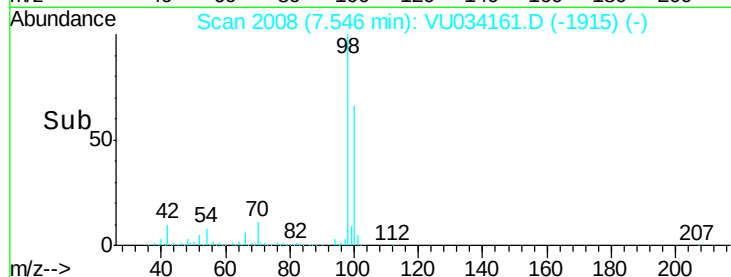
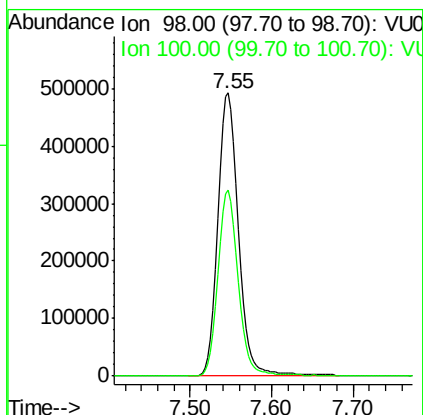
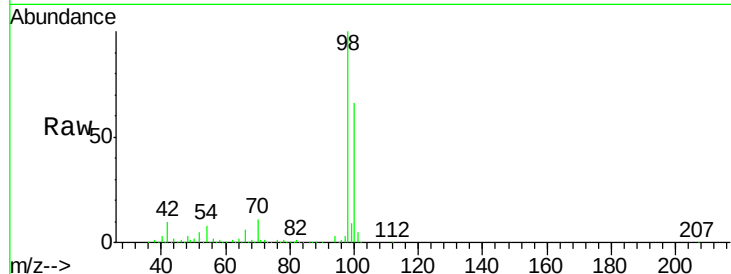




#50  
Toluene-d8  
Concen: 49.330 ug/l  
RT: 7.55 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VU034161.D  
Acq: 01 Sep 2019 12:13

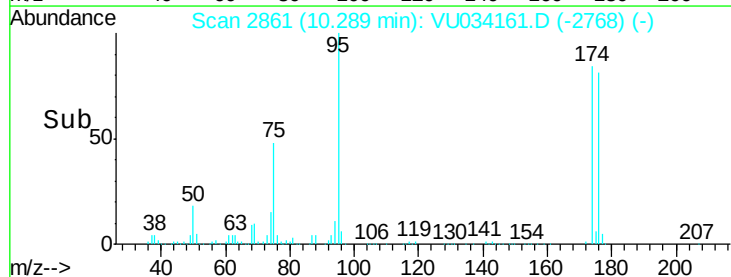
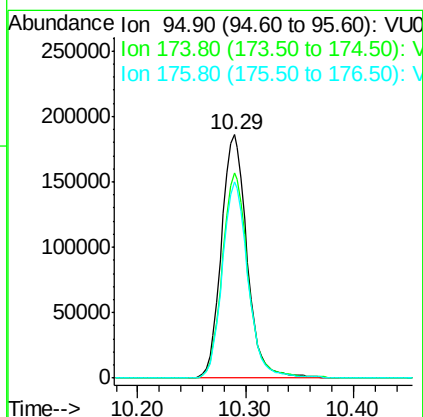
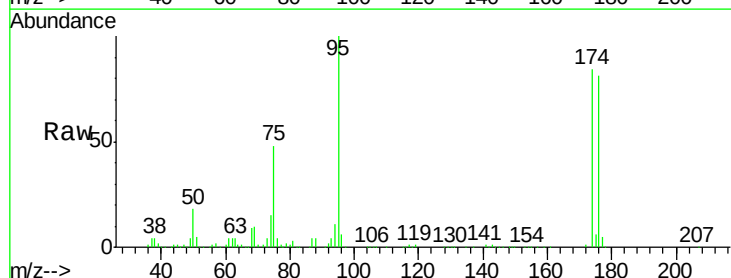
Instrument :  
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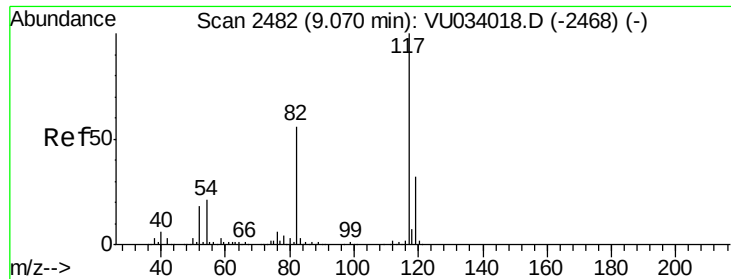
Tot Ion: 98 Resp: 889744  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 43.973 ug/l  
RT: 10.29 min Scan# 2861  
Delta R.T. 0.00 min  
Lab File: VU034161.D  
Acq: 01 Sep 2019 12:13

Tgt Ion: 95 Resp: 308513  
Ion Ratio Lower Upper  
95 100  
174 84.8 0.0 168.8  
176 80.9 0.0 161.8

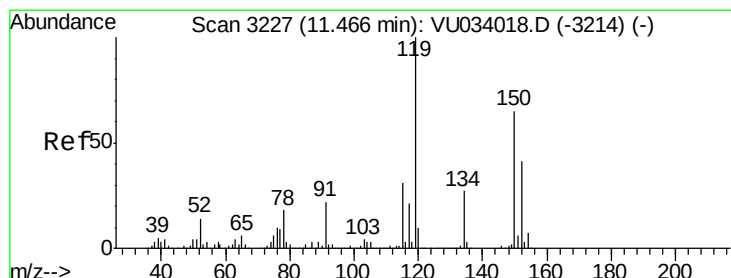
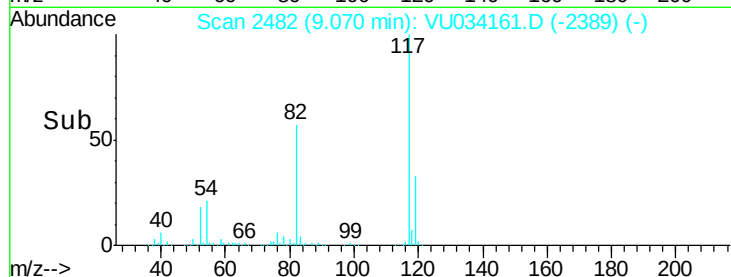
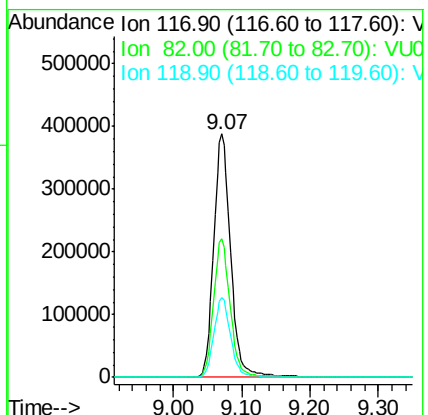
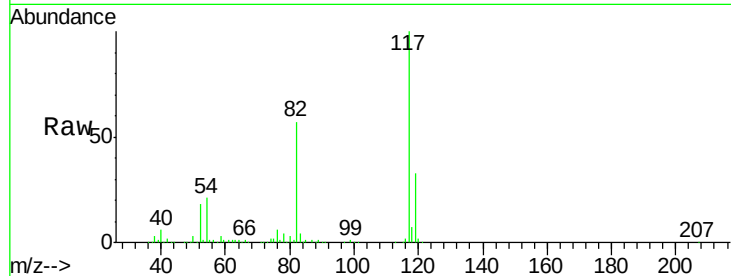




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.07 min Scan# 2482  
Delta R.T. 0.00 min  
Lab File: VU034161.D  
Acq: 01 Sep 2019 12:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP-BLANK

Tot Ion:117 Resp: 671947  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.1 67.7  
119 32.6 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.46 min Scan# 3226  
Delta R.T. -0.00 min  
Lab File: VU034161.D  
Acq: 01 Sep 2019 12:13

Tgt Ion:152 Resp: 332009  
Ion Ratio Lower Upper  
152 100  
115 56.6 41.1 123.3  
150 155.8 0.0 348.8

