

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\  
 Data File : VF061876.D  
 Acq On : 8 Mar 2019 21:39  
 Operator : VA/AP  
 Sample : K1807-23  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-17

Quant Time: Mar 09 03:07:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 245542   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.58  | 114  | 397491   | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 352944   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 197068   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 107749   | 60.26 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 120.52% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 157173   | 56.66 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 113.32% |          |
| 50) Toluene-d8              | 7.54  | 98   | 395089   | 47.92 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 95.84%  |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 173892   | 53.84 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 107.68% |          |

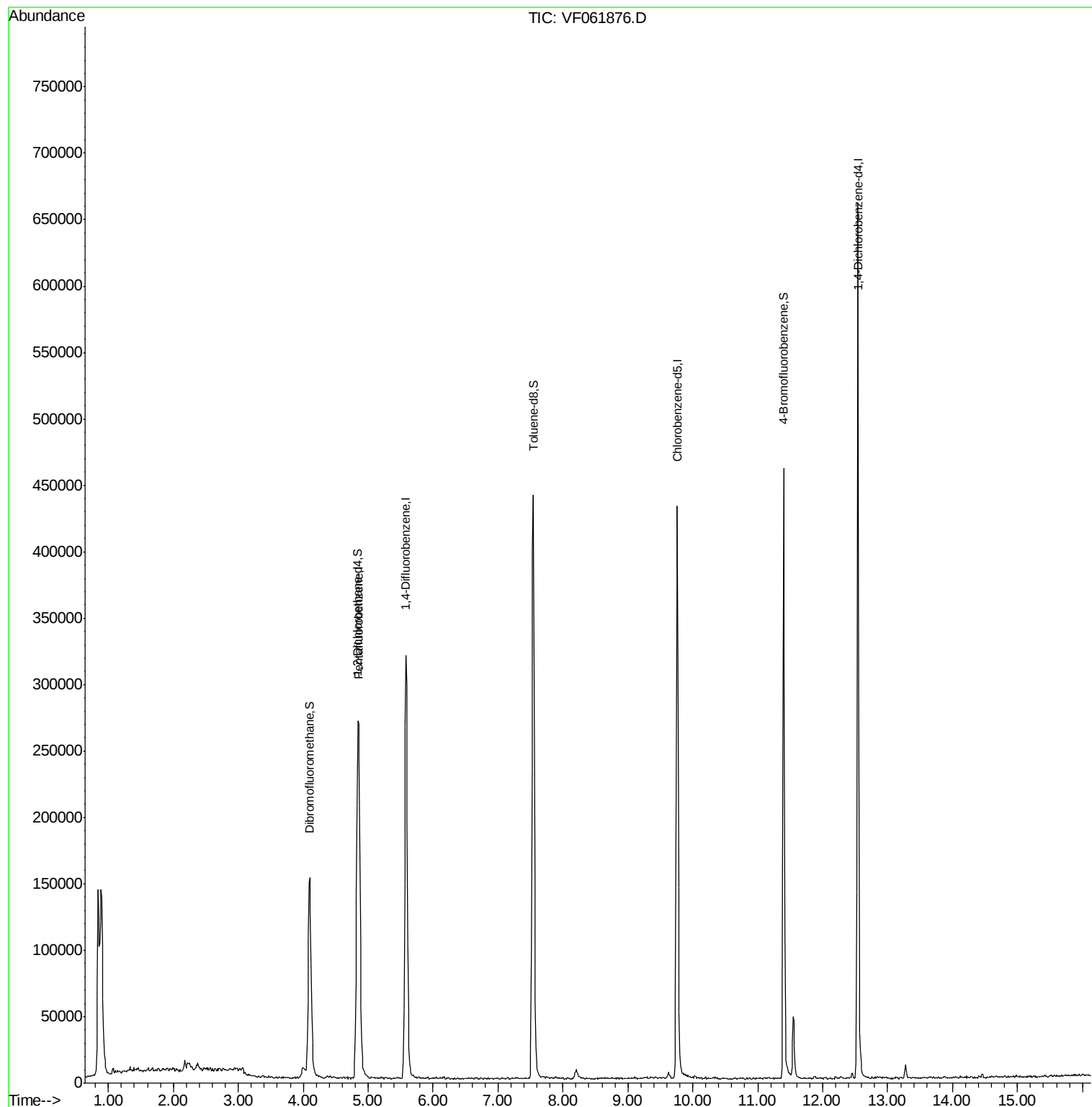
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

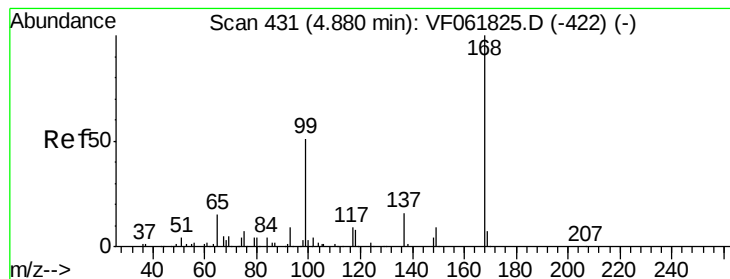
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061876.D

Acq: 8 Mar 2019 21:39

Instrument :

MSVOA\_F

ClientSampled :

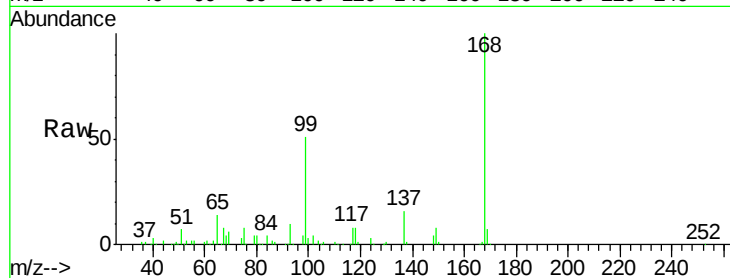
TP-17

Tot Ion:168 Resp: 245542

Ion Ratio Lower Upper

168 100

99 51.3 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

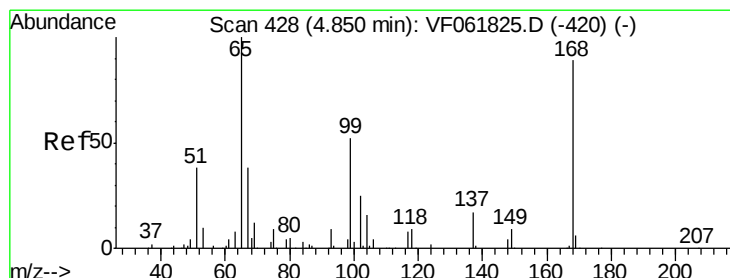
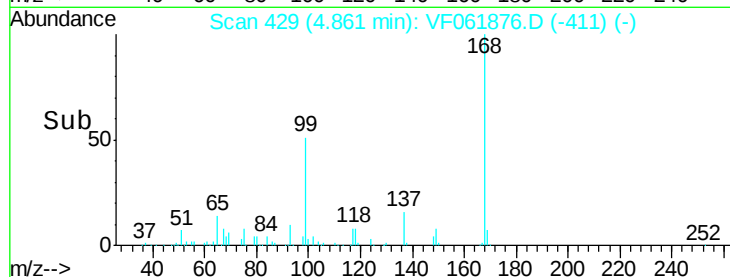
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 60.257 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061876.D

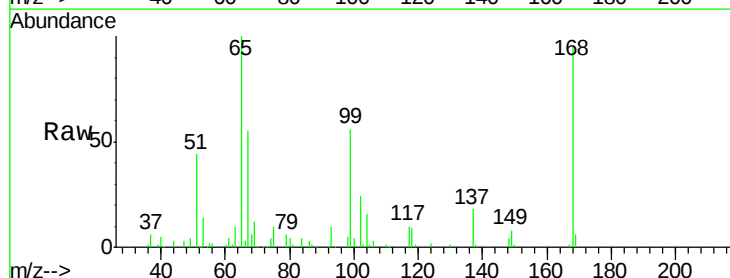
Acq: 8 Mar 2019 21:39

Tgt Ion: 65 Resp: 107749

Ion Ratio Lower Upper

65 100

67 54.7 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.83

40000

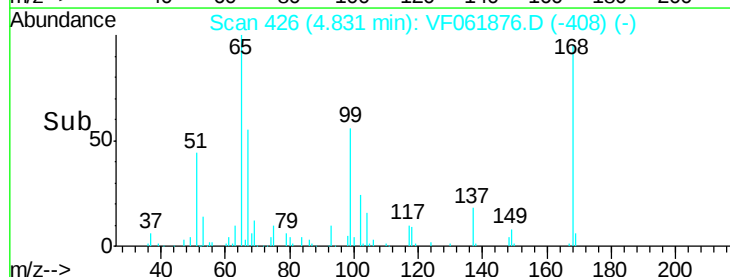
30000

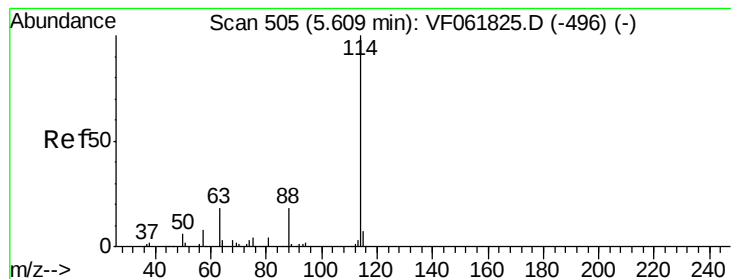
20000

10000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061876.D

Acq: 8 Mar 2019 21:39

Instrument :

MSVOA\_F

ClientSampleId :

TP-17

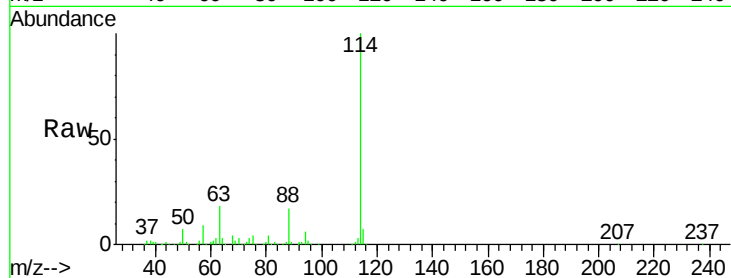
Tot Ion:114 Resp: 397491

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

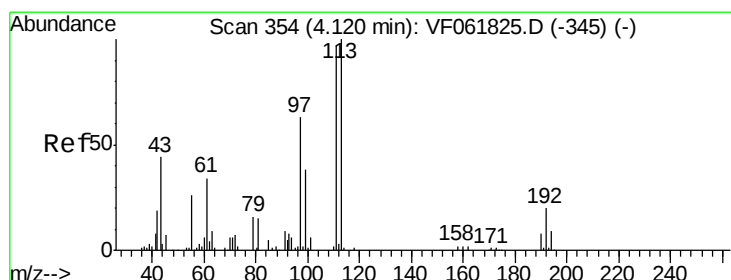
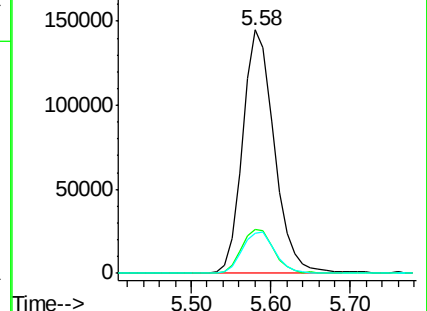
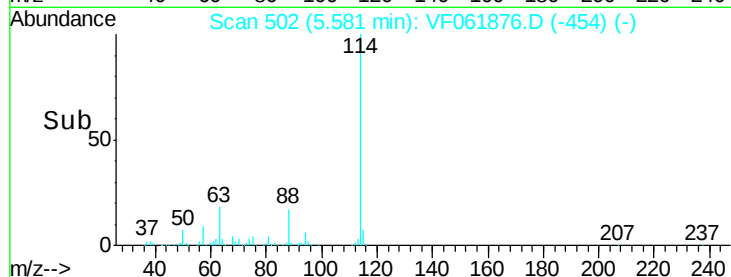
88 16.6 0.0 35.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 56.660 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061876.D

Acq: 8 Mar 2019 21:39

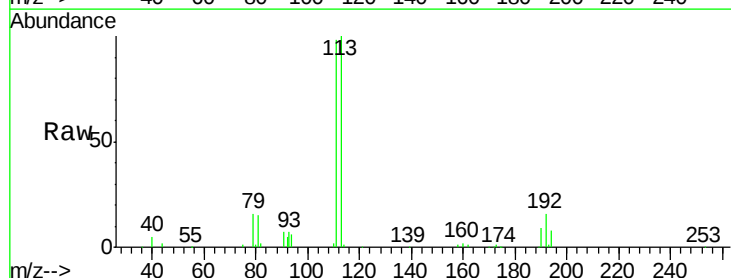
Tgt Ion:113 Resp: 157173

Ion Ratio Lower Upper

113 100

111 97.8 77.6 116.4

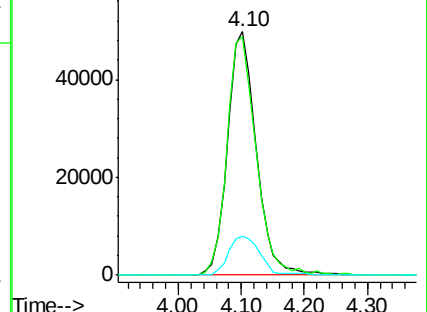
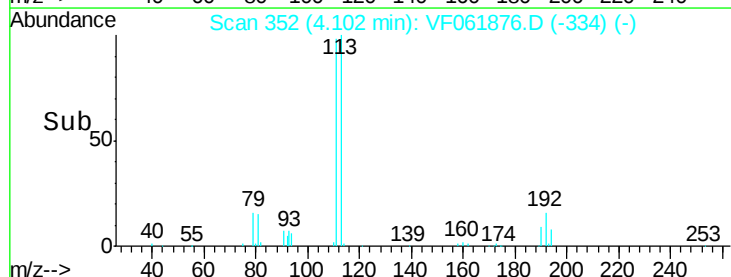
192 16.4 15.9 23.9

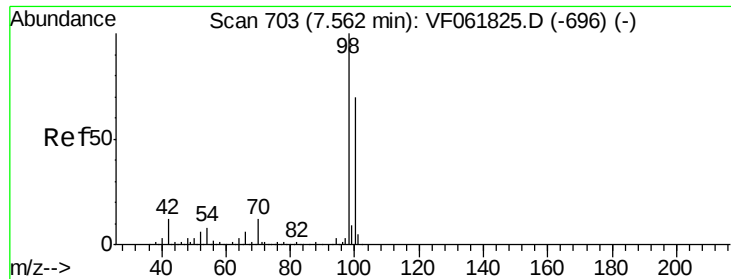


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

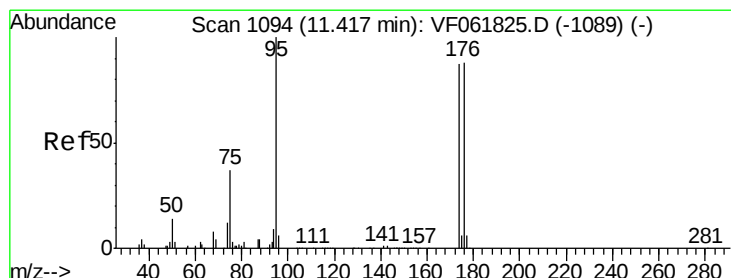
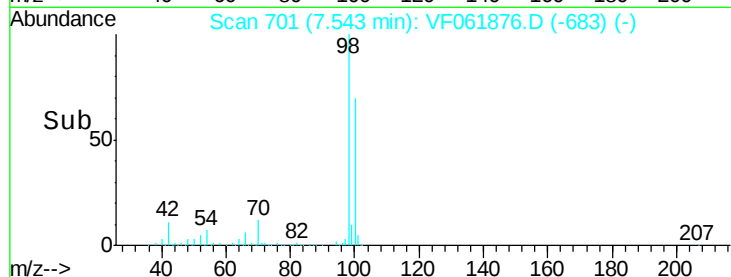
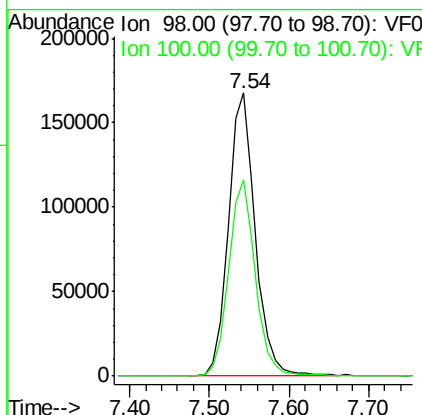
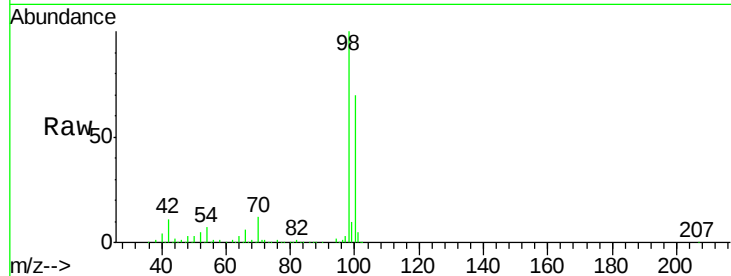




#50  
Toluene-d8  
Concen: 47.918 ug/l  
RT: 7.54 min Scan# 701  
Delta R.T. -0.02 min  
Lab File: VF061876.D  
Acq: 8 Mar 2019 21:39

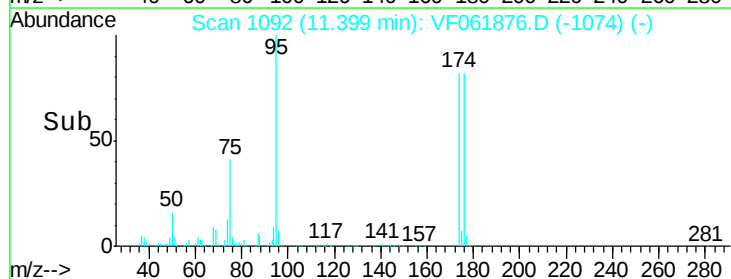
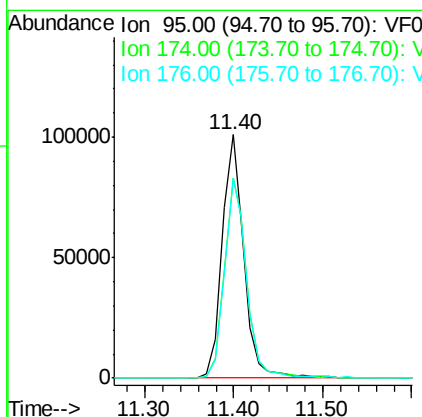
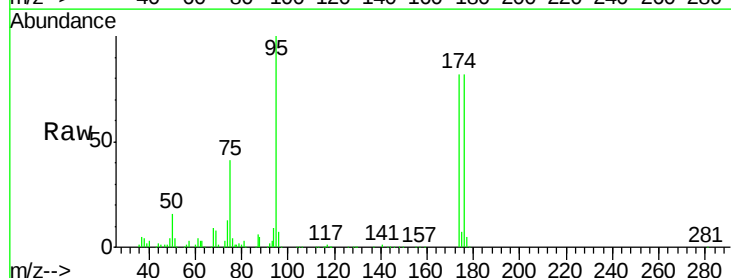
Instrument :  
MSVOA\_F  
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TP-17

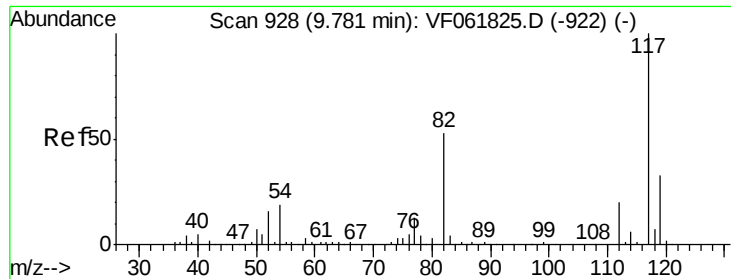
Tot Ion: 98 Resp: 395089  
Ion Ratio Lower Upper  
98 100  
100 69.5 56.0 84.0



#62  
4-Bromofluorobenzene  
Concen: 53.840 ug/l  
RT: 11.40 min Scan# 1092  
Delta R.T. -0.02 min  
Lab File: VF061876.D  
Acq: 8 Mar 2019 21:39

Tgt Ion: 95 Resp: 173892  
Ion Ratio Lower Upper  
95 100  
174 82.4 0.0 174.0  
176 82.2 0.0 175.2

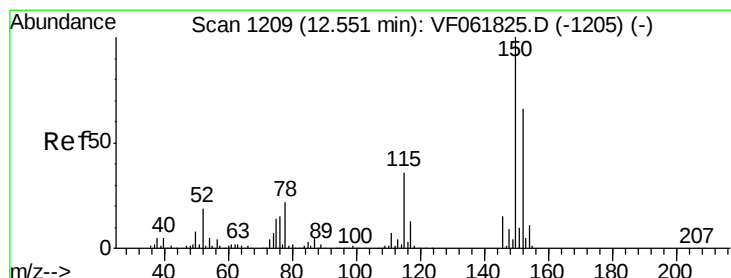
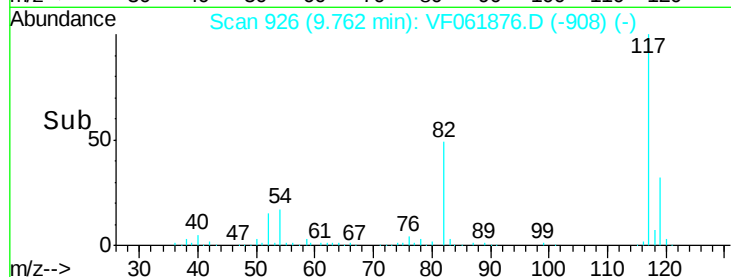
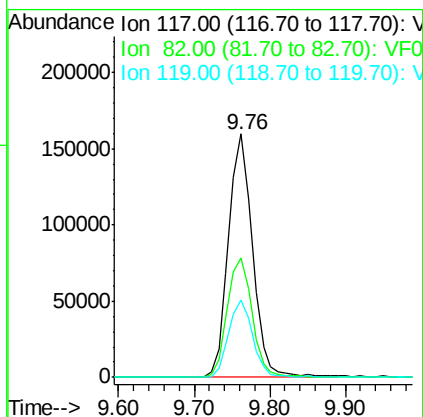
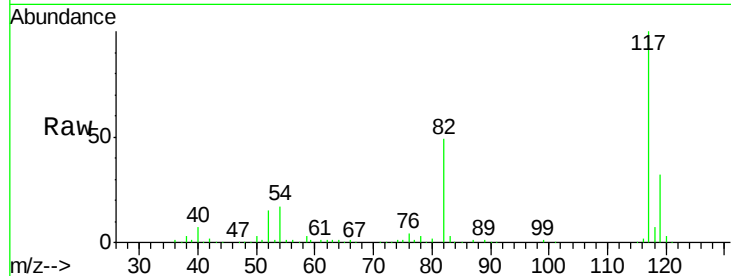




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.76 min Scan# 926  
Delta R.T. -0.02 min  
Lab File: VF061876.D  
Acq: 8 Mar 2019 21:39

Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-17

Tot Ion:117 Resp: 352944  
Ion Ratio Lower Upper  
117 100  
82 49.1 42.6 63.8  
119 31.9 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: VF061876.D  
Acq: 8 Mar 2019 21:39

Tgt Ion:152 Resp: 197068  
Ion Ratio Lower Upper  
152 100  
115 50.5 27.7 83.1  
150 149.4 0.0 304.2

