

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\  
 Data File : VF060867.D  
 Acq On : 29 Nov 2018 15:02  
 Operator : VA/AP  
 Sample : VF1129SBL01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1129SBL01

Quant Time: Nov 30 06:12:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 213330   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 374804   | 50.00 | ug/l  | -0.04    |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 329588   | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 194932   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 137831   | 54.85  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.70% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 164722   | 55.40  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.80% |          |
| 50) Toluene-d8              | 7.56  | 98   | 424476   | 48.46  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.92%  |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 207224   | 52.06  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.12% |          |

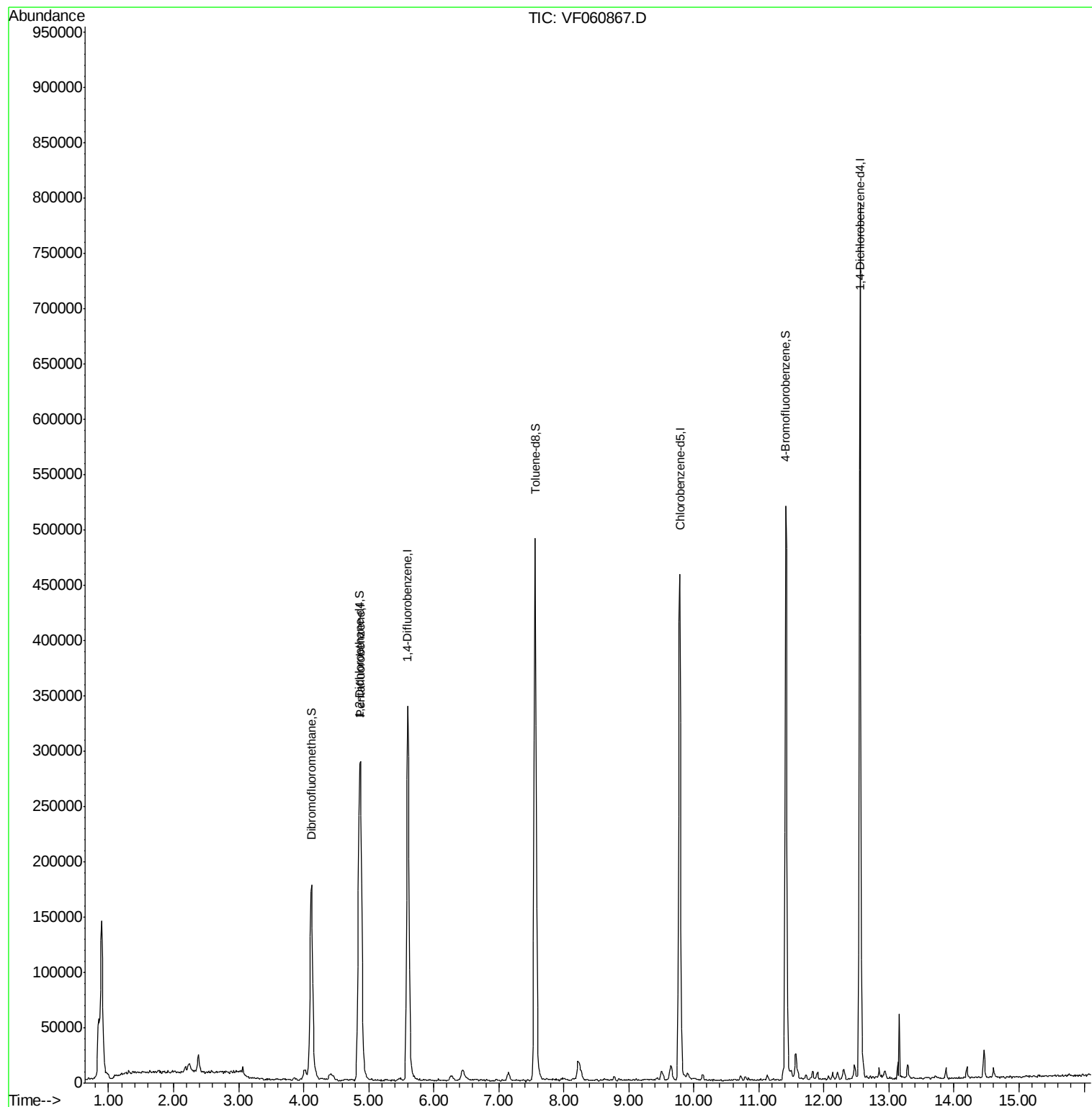
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

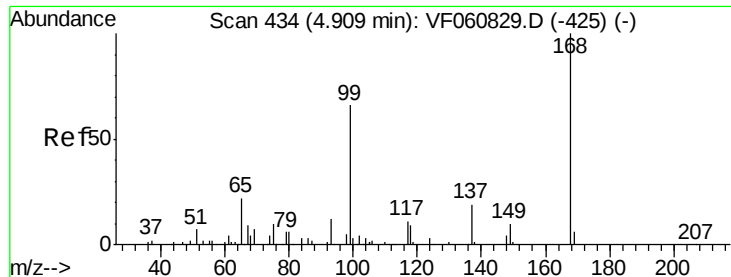
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 30 06:12:05 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA\_F

ClientSampleId :

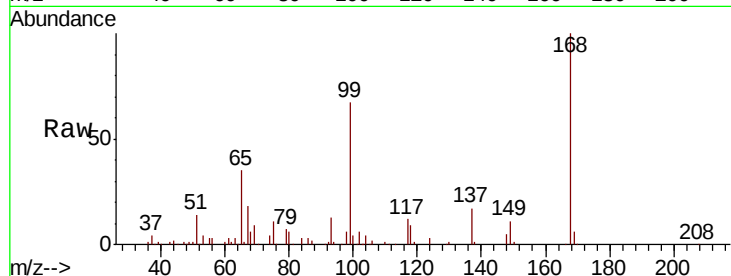
VF1129SBL01

Tot Ion:168 Resp: 213330

Ion Ratio Lower Upper

168 100

99 67.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

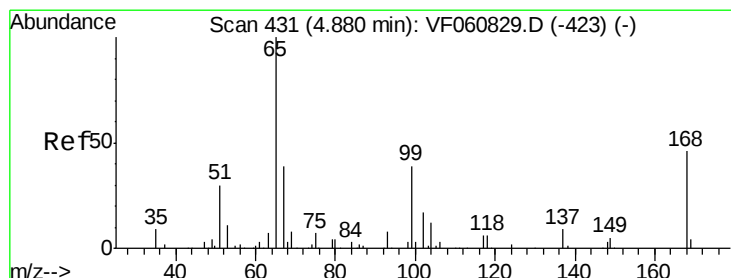
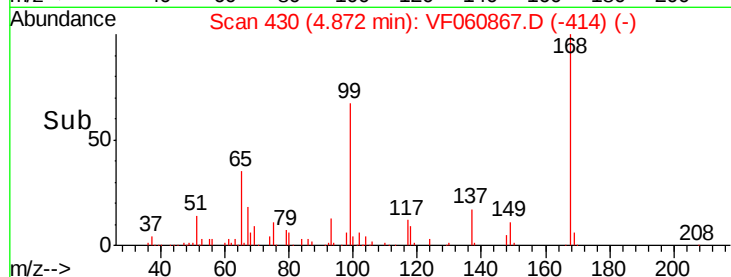
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#33

1,2-Dichloroethane-d4

Concen: 54.845 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060867.D

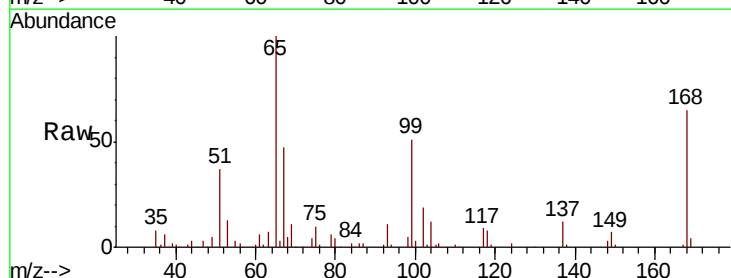
Acq: 29 Nov 2018 15:02

Tgt Ion: 65 Resp: 137831

Ion Ratio Lower Upper

65 100

67 47.2 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.85

50000

40000

30000

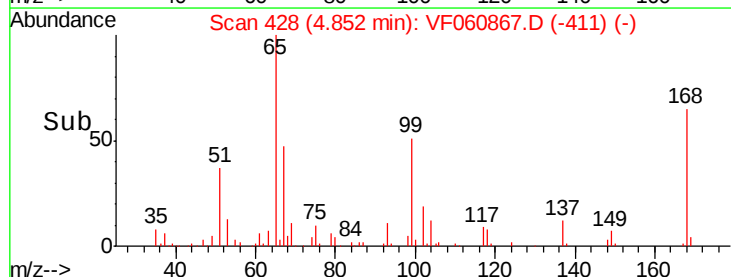
20000

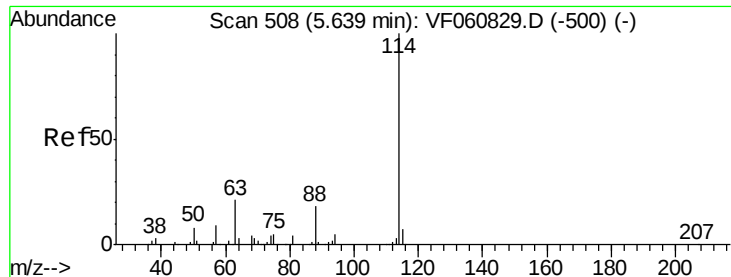
10000

0

Time-->

4.70 4.80 4.90 5.00





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1129SBL01

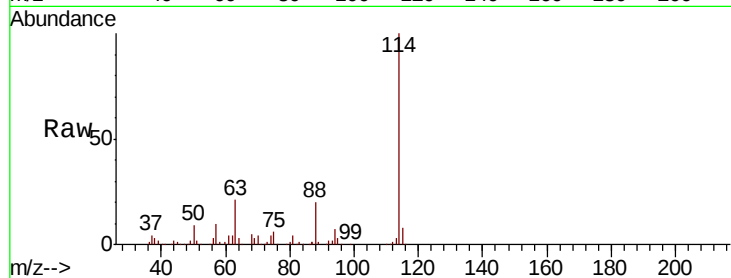
Tot Ion:114 Resp: 374804

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

88 20.1 0.0 36.6



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

150000

100000

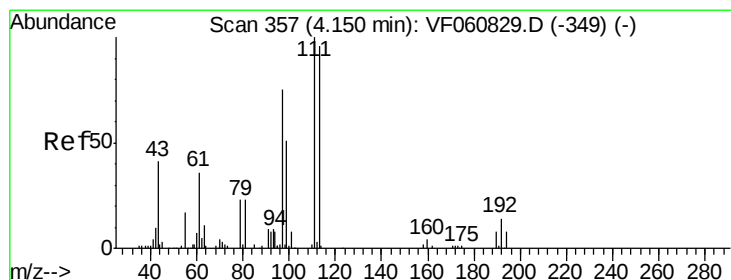
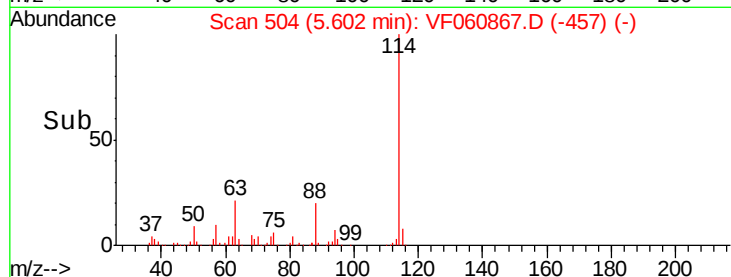
50000

0

5.60

5.50 5.60 5.70 5.80

Time-->



#35

Dibromofluoromethane

Concen: 55.398 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060867.D

Acq: 29 Nov 2018 15:02

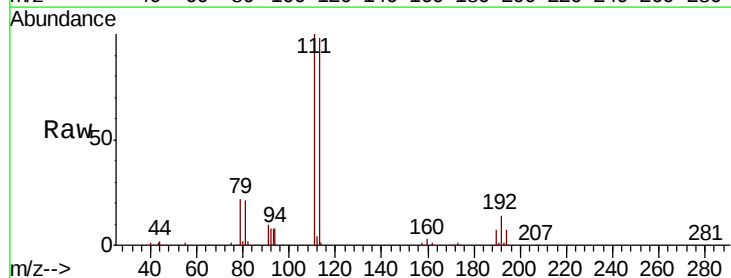
Tgt Ion:113 Resp: 164722

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.6

192 14.6 12.3 18.5



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

60000

40000

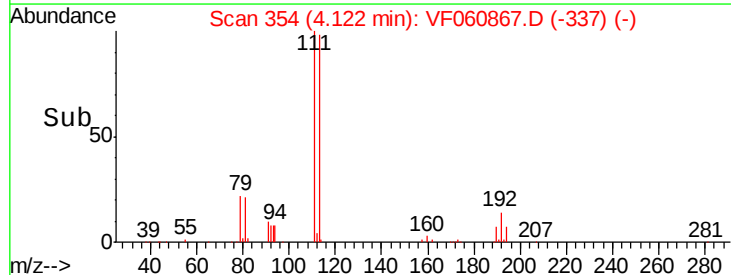
20000

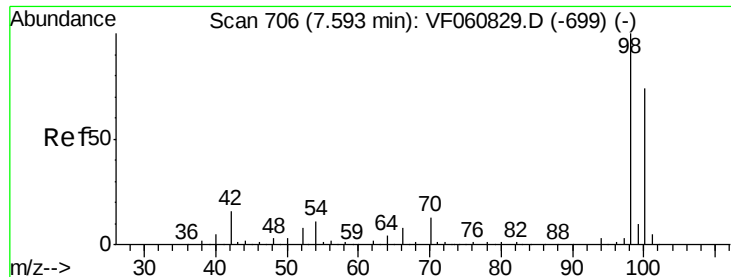
0

4.12

4.00 4.10 4.20 4.30

Time-->

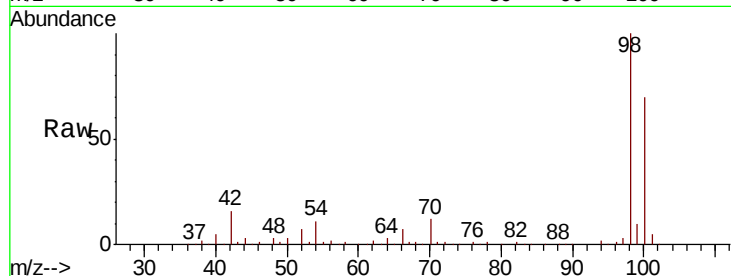




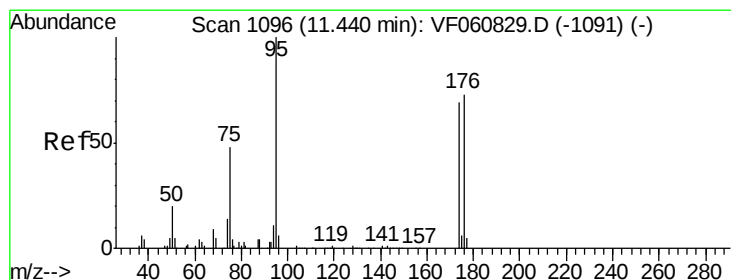
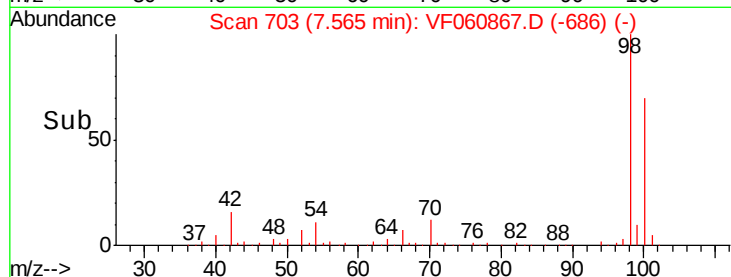
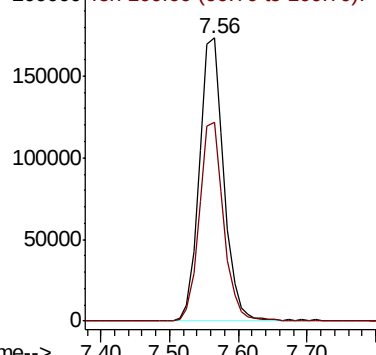
#50  
Toluene-d8  
Concen: 48.463 ug/l  
RT: 7.56 min Scan# 703  
Delta R.T. -0.03 min  
Lab File: VF060867.D  
Acq: 29 Nov 2018 15:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1129SBL01

Tot Ion: 98 Resp: 424476  
Ion Ratio Lower Upper  
98 100  
100 70.5 59.3 88.9

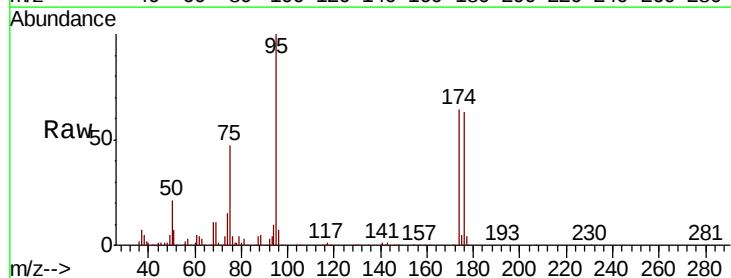


Abundance Ion 98.00 (97.70 to 98.70): VF0  
Ion 100.00 (99.70 to 100.70): VF

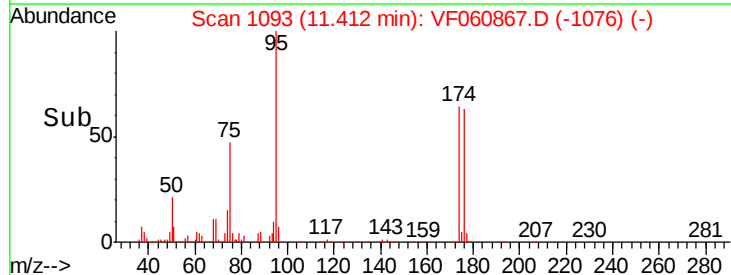
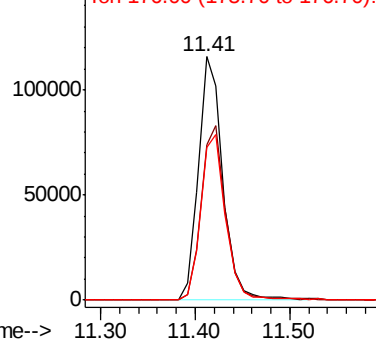


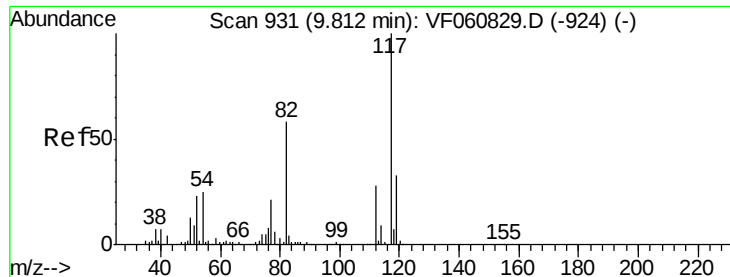
#62  
4-Bromofluorobenzene  
Concen: 52.057 ug/l  
RT: 11.41 min Scan# 1093  
Delta R.T. -0.03 min  
Lab File: VF060867.D  
Acq: 29 Nov 2018 15:02

Tgt Ion: 95 Resp: 207224  
Ion Ratio Lower Upper  
95 100  
174 63.8 0.0 138.2  
176 62.7 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V

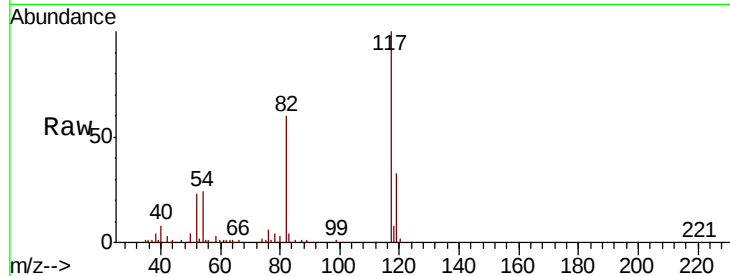




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.03 min  
Lab File: VF060867.D  
Acq: 29 Nov 2018 15:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1129SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.8  | 46.6  | 69.8  |
| 119     | 33.0  | 26.4  | 39.6  |

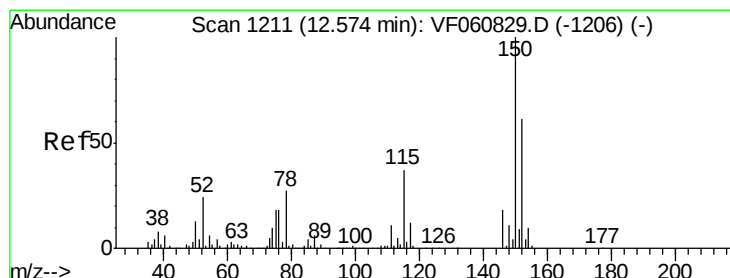
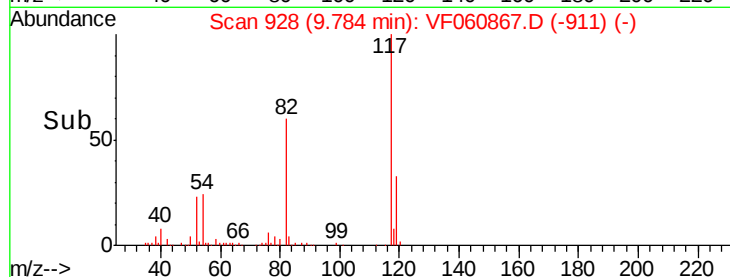
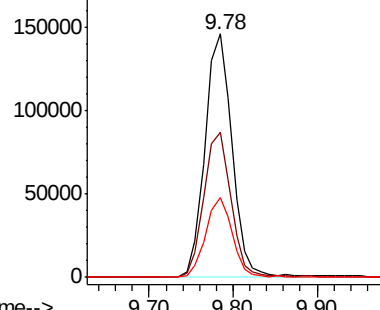


Abundance

Ion 117.00 (116.70 to 117.70): V

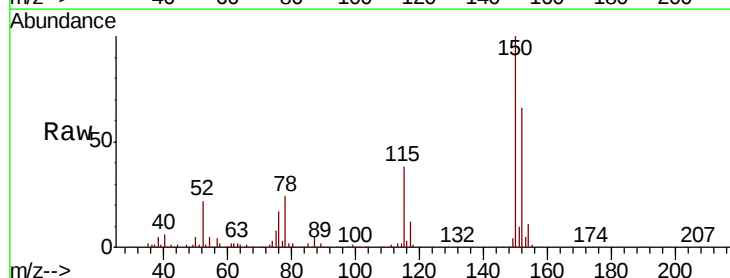
Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1209  
Delta R.T. -0.02 min  
Lab File: VF060867.D  
Acq: 29 Nov 2018 15:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.4  | 30.1  | 90.5  |
| 150     | 152.1 | 0.0   | 327.6 |



Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

