

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112018\  
 Data File : VF060814.D  
 Acq On : 20 Nov 2018 20:36  
 Operator : VA/AP  
 Sample : J5981-01RE  
 Misc : 4.50µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Nov 21 02:50:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 14 03:11:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.88  | 168  | 188181   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.61  | 114  | 327893   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 275022   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 134600   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4   | 4.85   | 65  | 100115   | 46.64 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.28%  |       |
| 35) Dibromofluoromethane    | 4.12   | 113 | 126021   | 51.13 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.26% |       |
| 50) Toluene-d8              | 7.56   | 98  | 298265   | 46.93 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.86%  |       |
| 62) 4-Bromofluorobenzene    | 11.42  | 95  | 134789   | 45.88 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.76%  |       |

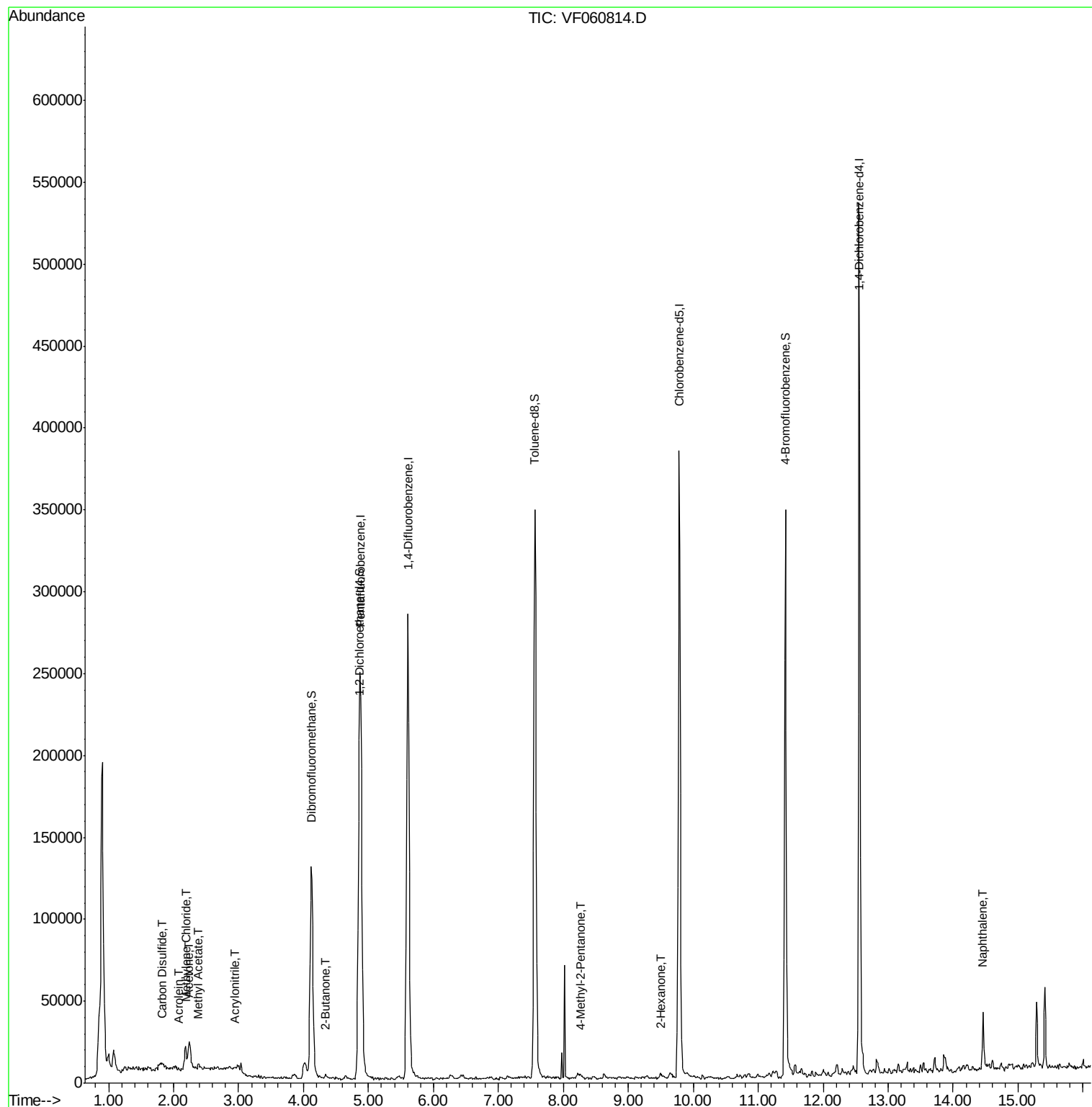
| Target Compounds         | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein             | 2.09  | 56   | 366      | 4.098     | ug/l   | 86     |
| 15) Acrylonitrile        | 2.95  | 53   | 409      | 1.965     | ug/l # | 35     |
| 16) Acetone              | 2.24  | 43   | 19038    | 41.497    | ug/l   | 94     |
| 17) Carbon Disulfide     | 1.82  | 76   | 14859    | 3.202     | ug/l # | 89     |
| 18) Methyl Acetate       | 2.37  | 43   | 1436     | 1.906     | ug/l # | 64     |
| 20) Methylene Chloride   | 2.19  | 84   | 6061     | 1.182     | ug/l   | 96     |
| 25) 2-Butanone           | 4.34  | 43   | 4280     | 5.672     | ug/l # | 72     |
| 41) Methacrylonitrile    | 4.78  | 41   | 548      | Below Cal | #      | 44     |
| 51) 4-Methyl-2-Pentanone | 8.26  | 43   | 2549     | 1.880     | ug/l # | 75     |
| 59) 2-Hexanone           | 9.50  | 43   | 2376     | 2.494     | ug/l   | 74     |
| 95) Naphthalene          | 14.47 | 128  | 24627    | 4.444     | ug/l   | 95     |

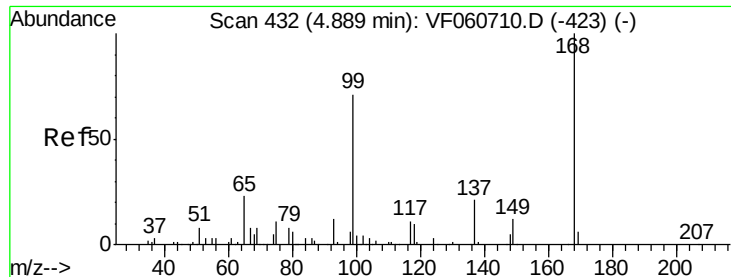
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :

Quant Time: Nov 21 02:50:49 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 14 03:11:14 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060814.D

Acq: 20 Nov 2018 20:36

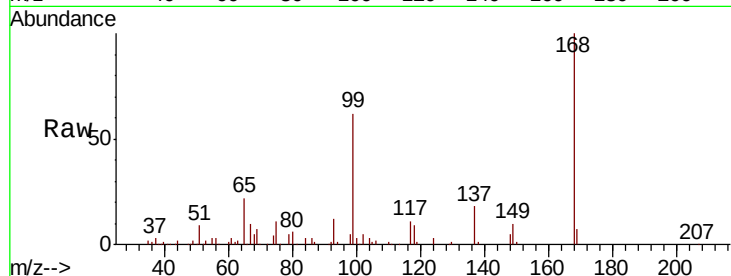
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 188181

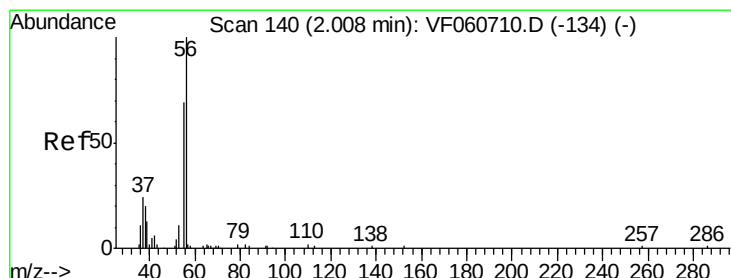
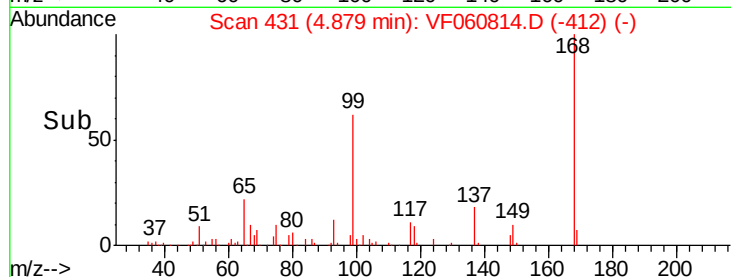
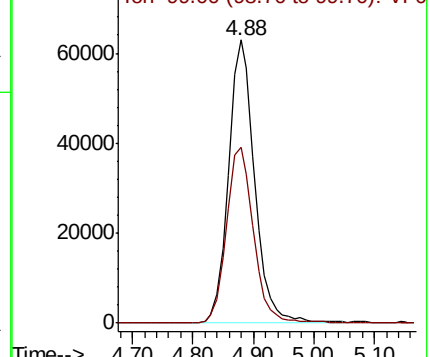
Ion Ratio Lower Upper

168 100

99 62.0 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#13

Acrolein

Concen: 4.098 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.08 min

Lab File: VF060814.D

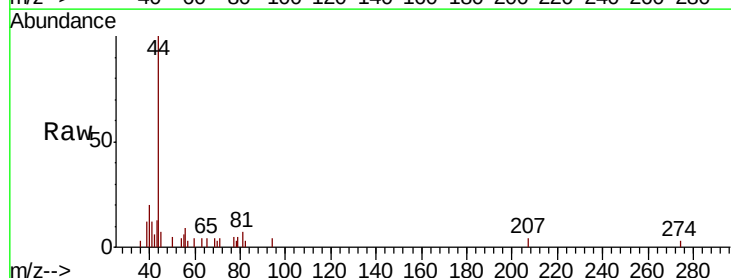
Acq: 20 Nov 2018 20:36

Tgt Ion: 56 Resp: 366

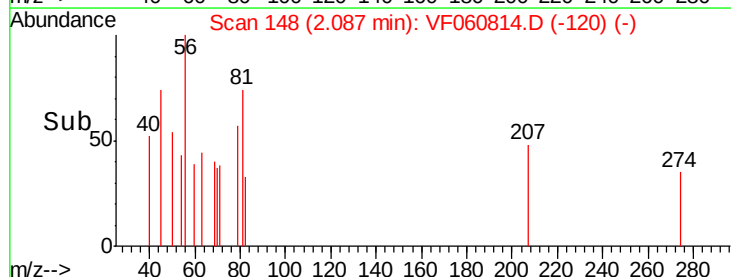
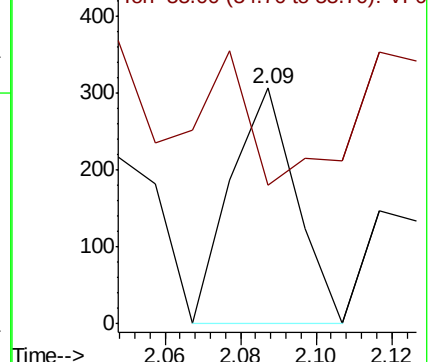
Ion Ratio Lower Upper

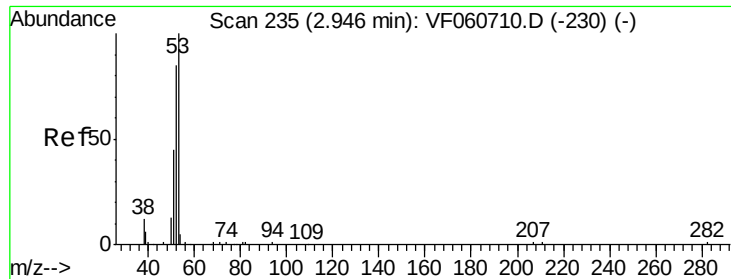
56 100

55 59.0 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VF0





#15

Acrylonitrile

Concen: 1.965 ug/l

RT: 2.95 min Scan# 235

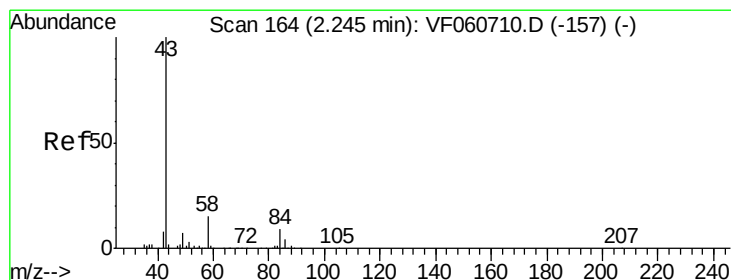
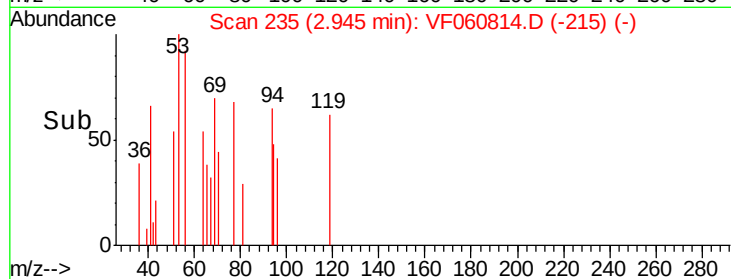
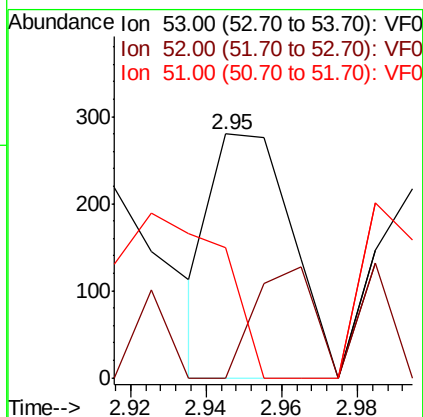
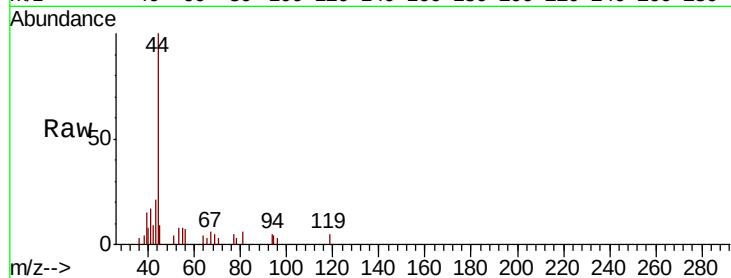
Delta R.T. -0.00 min

Lab File: VF060814.D

Acq: 20 Nov 2018 20:36

Instrument :  
MSVOA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 409    |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 0.0   | 68.8  | 103.2# |
| 51       | 53.6  | 36.7  | 55.1   |



#16

Acetone

Concen: 41.497 ug/l

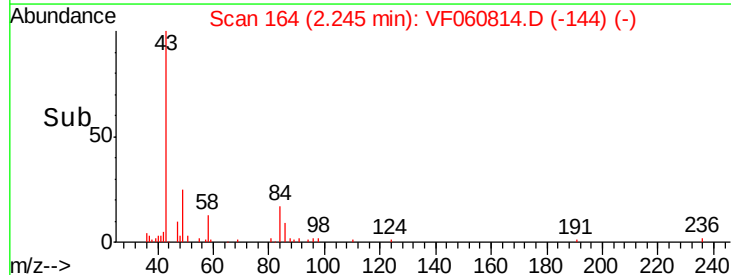
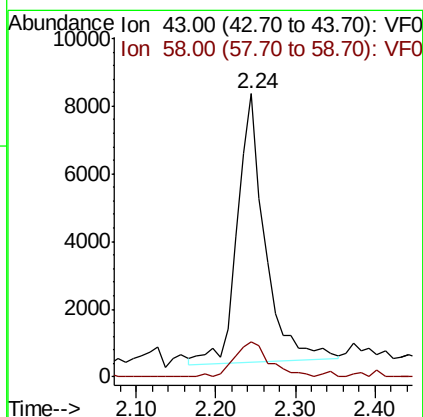
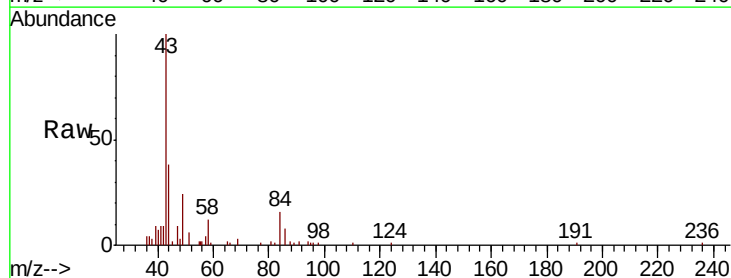
RT: 2.24 min Scan# 164

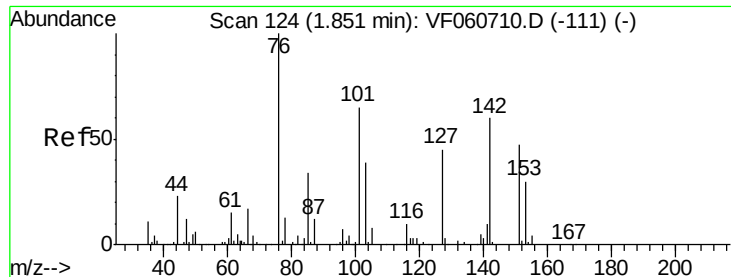
Delta R.T. -0.00 min

Lab File: VF060814.D

Acq: 20 Nov 2018 20:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 19038 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 12.2  | 11.6  | 17.4  |

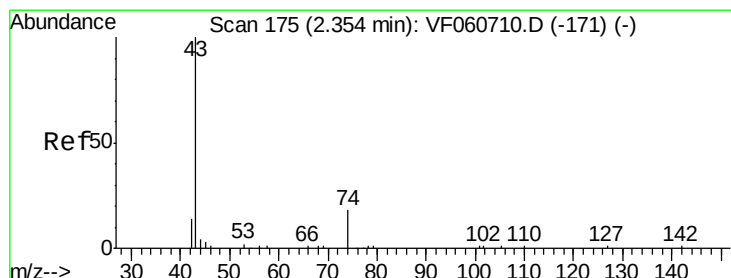
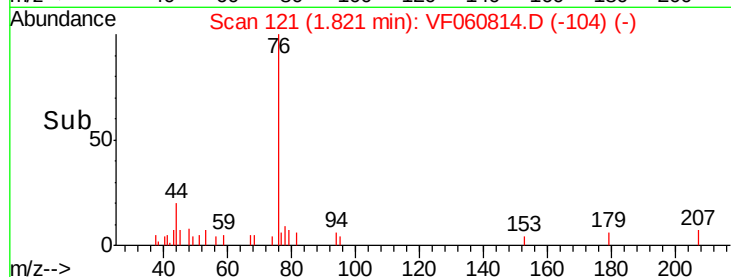
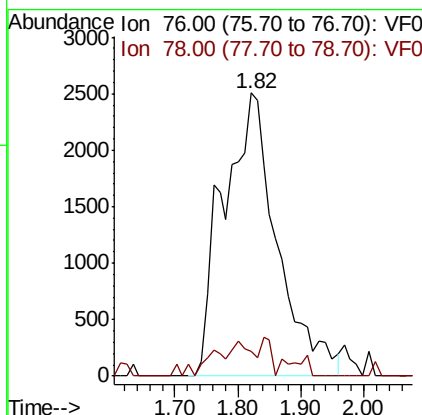
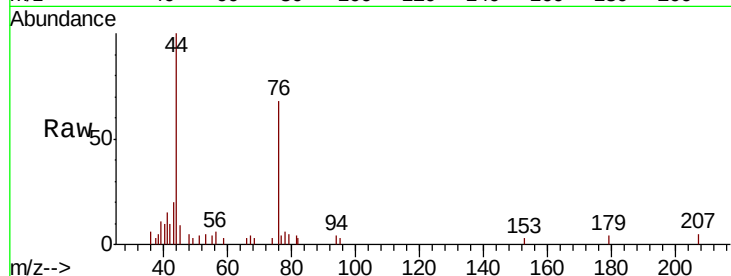




#17  
Carbon Disulfide  
Concen: 3.202 ug/l  
RT: 1.82 min Scan# 121  
Delta R.T. -0.03 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

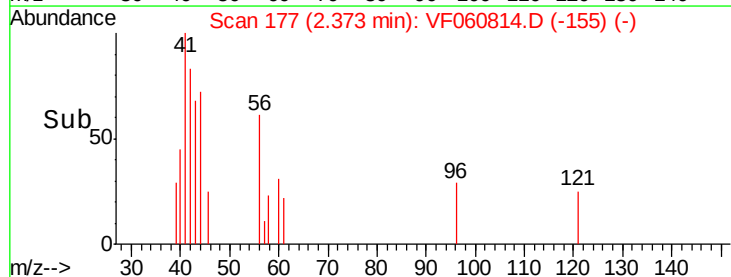
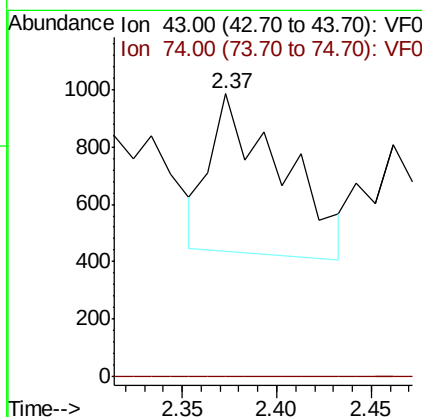
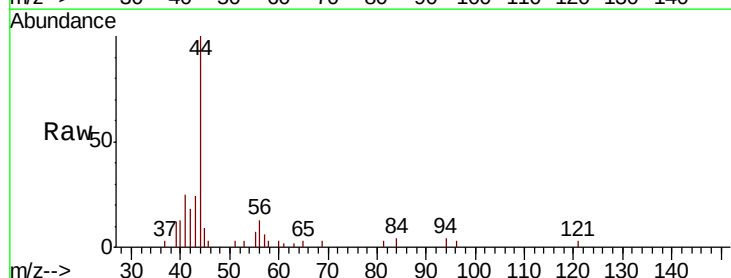
Instrument :  
MSVOA\_F  
ClientSampled :

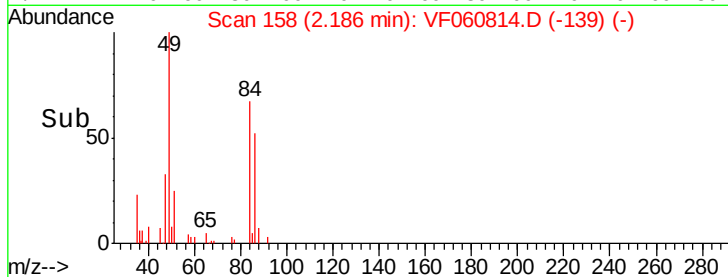
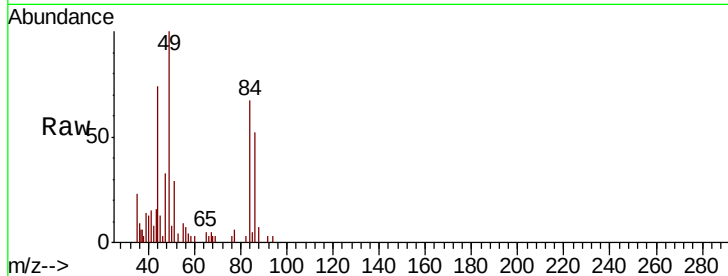
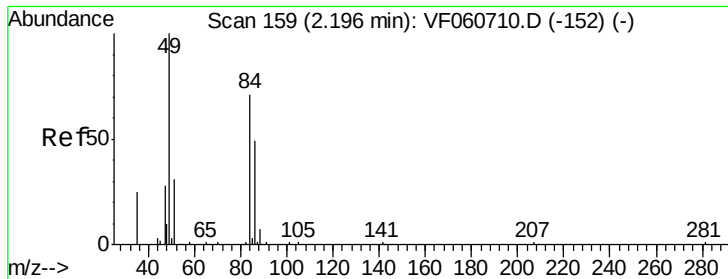
Tot Ion: 76 Resp: 14859  
Ion Ratio Lower Upper  
76 100  
78 8.8 10.5 15.7#



#18  
Methyl Acetate  
Concen: 1.906 ug/l  
RT: 2.37 min Scan# 177  
Delta R.T. 0.02 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

Tgt Ion: 43 Resp: 1436  
Ion Ratio Lower Upper  
43 100  
74 0.0 11.8 17.8#

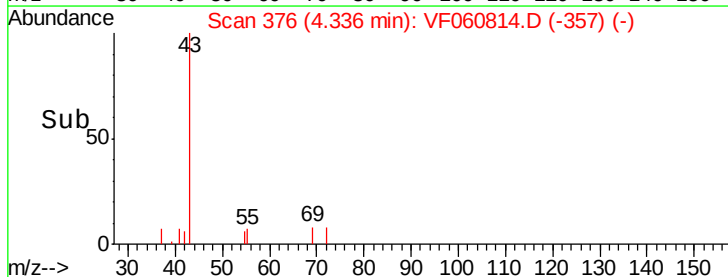
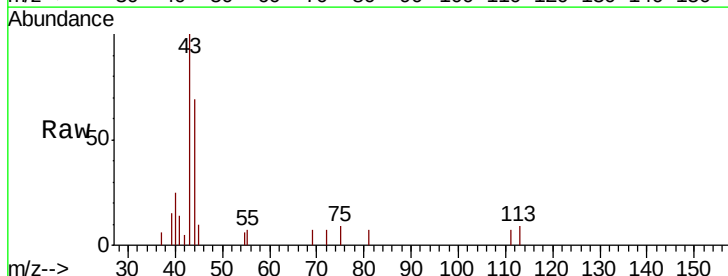
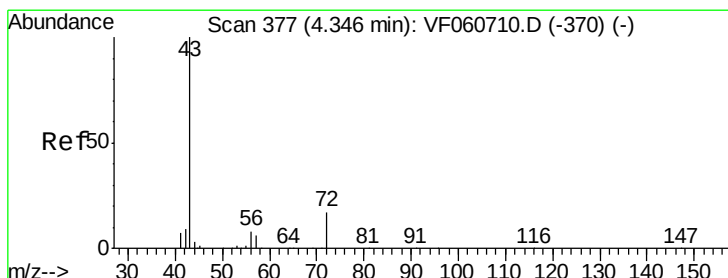
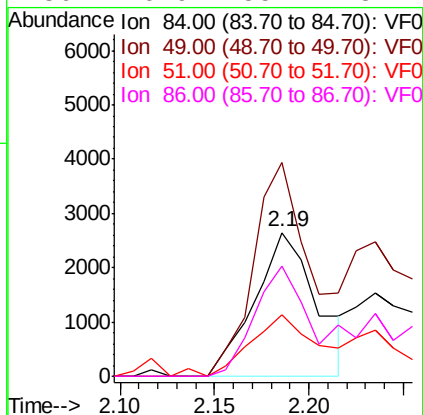




#20  
Methylene Chloride  
Concen: 1.182 ug/l  
RT: 2.19 min Scan# 158  
Delta R.T. -0.01 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

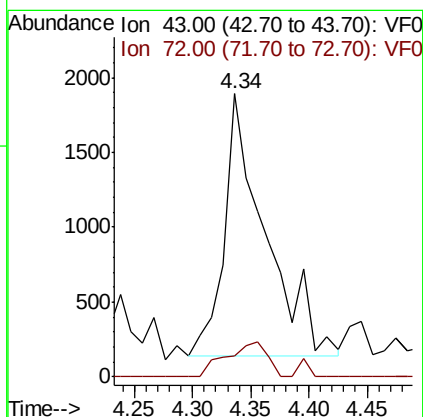
Instrument :  
MSVOA\_F  
ClientSampled :

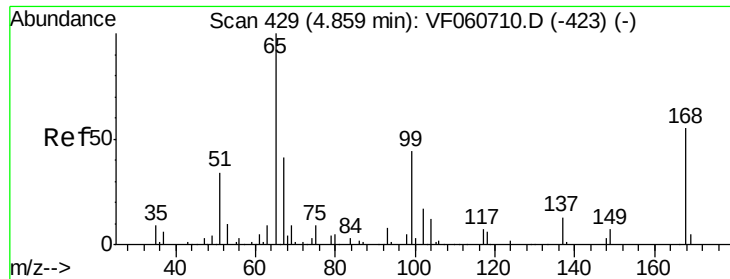
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 6061  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 149.0 | 120.2 | 180.4 |
| 51       | 42.7  | 37.2  | 55.8  |
| 86       | 76.9  | 55.1  | 82.7  |



#25  
2-Butanone  
Concen: 5.672 ug/l  
RT: 4.34 min Scan# 376  
Delta R.T. -0.01 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4280  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 7.2   | 16.1  | 24.1# |

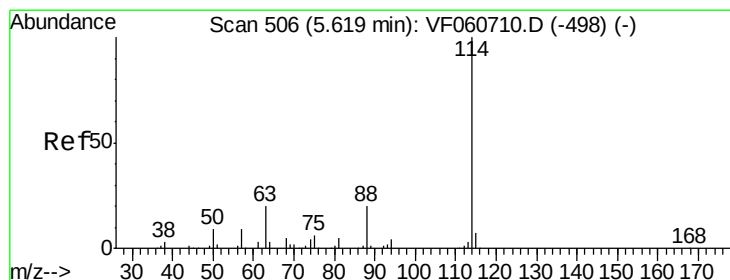
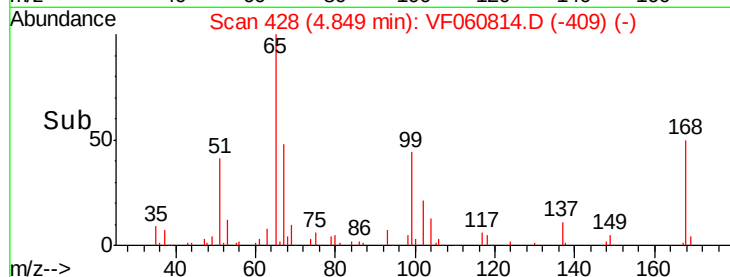
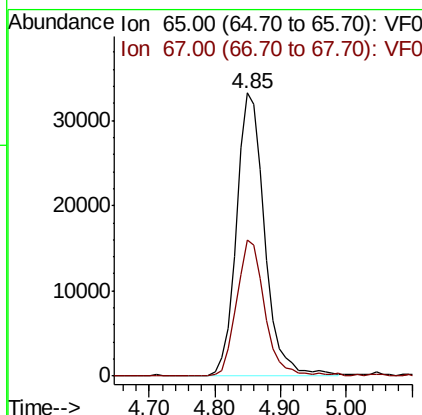
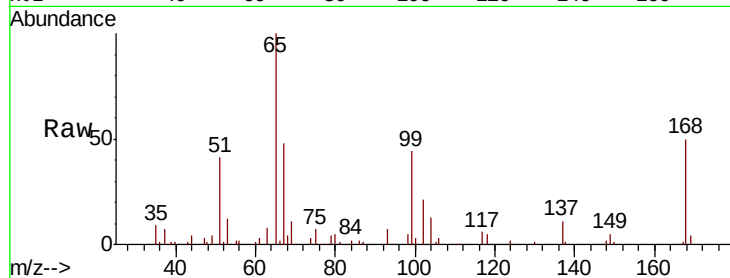




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.643 ug/l  
 RT: 4.85 min Scan# 428  
 Delta R.T. -0.01 min  
 Lab File: VF060814.D  
 Acq: 20 Nov 2018 20:36

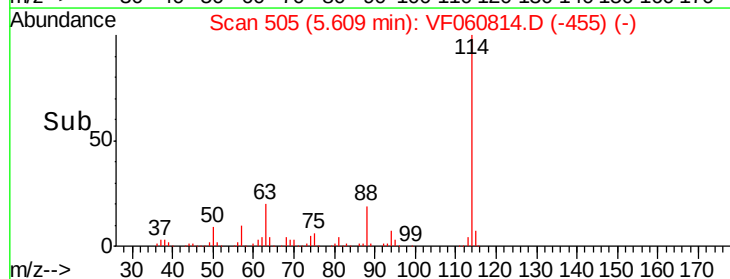
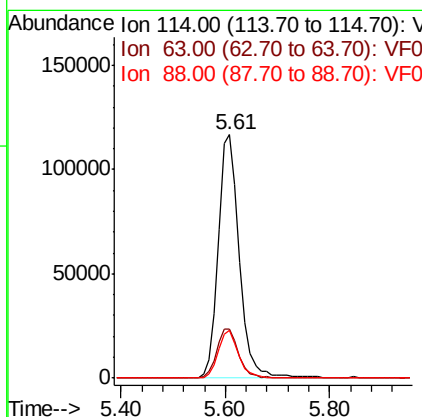
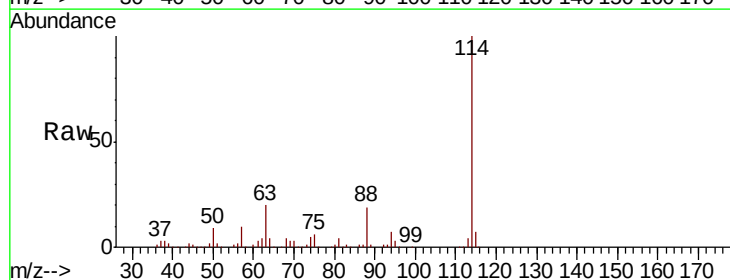
Instrument :  
 MSVOA\_F  
 ClientSampled :

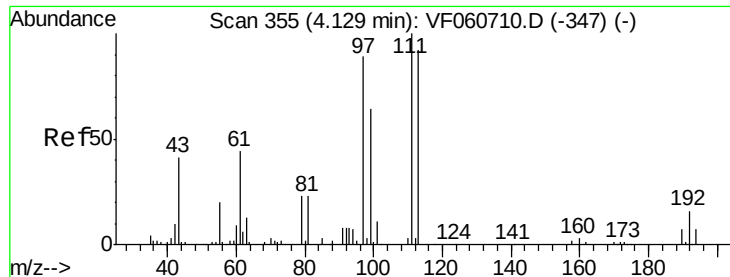
Tot Ion: 65 Resp: 100115  
 Ion Ratio Lower Upper  
 65 100  
 67 48.3 0.0 90.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.61 min Scan# 505  
 Delta R.T. -0.01 min  
 Lab File: VF060814.D  
 Acq: 20 Nov 2018 20:36

Tgt Ion: 114 Resp: 327893  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 40.8  
 88 19.4 0.0 39.6

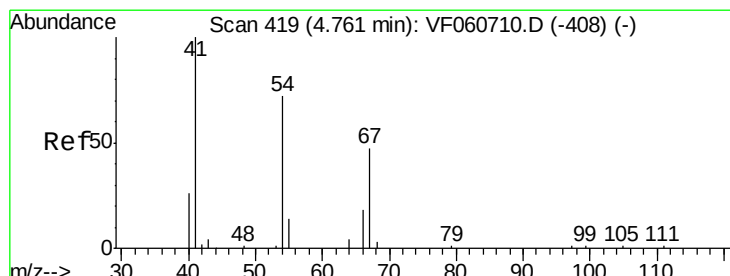
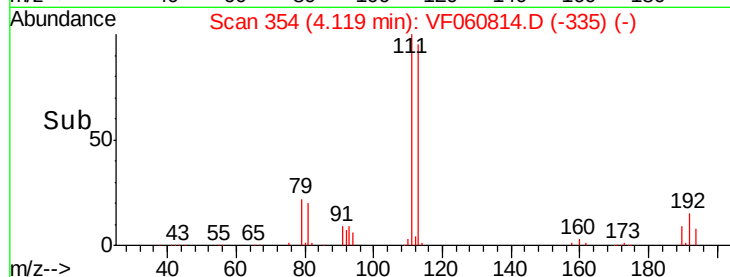
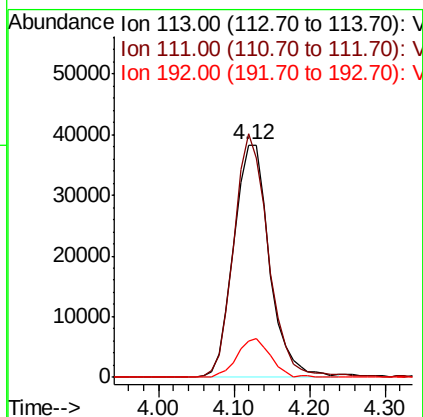
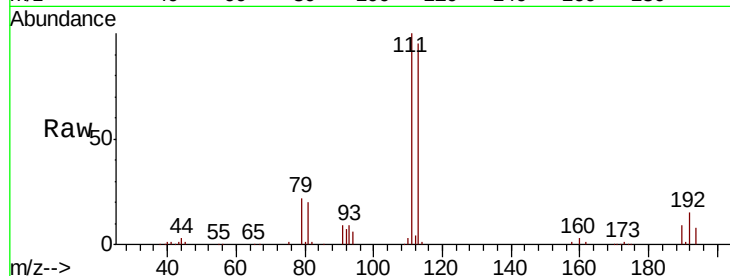




#35  
 Dibromofluoromethane  
 Concen: 51.129 ug/l  
 RT: 4.12 min Scan# 354  
 Delta R.T. -0.01 min  
 Lab File: VF060814.D  
 Acq: 20 Nov 2018 20:36

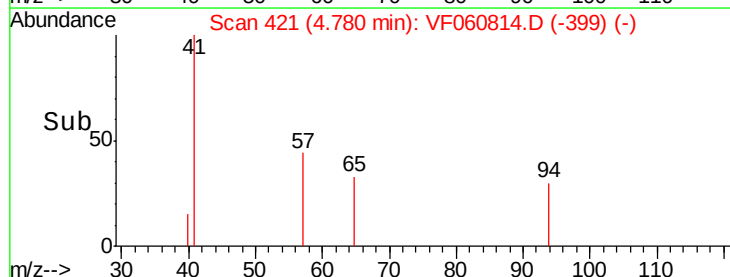
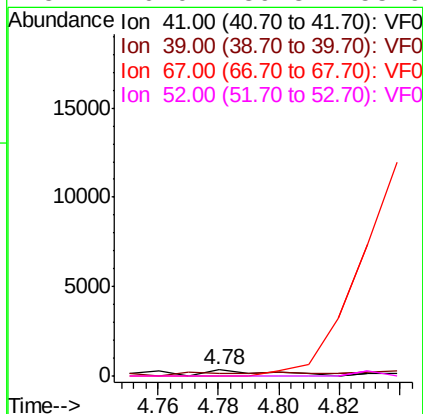
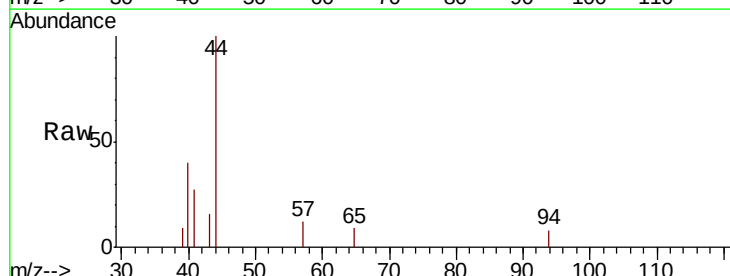
Instrument :  
 MSVOA\_F  
 ClientSampled :

Tot Ion:113 Resp: 126021  
 Ion Ratio Lower Upper  
 113 100  
 111 104.9 87.1 130.7  
 192 15.5 13.8 20.6

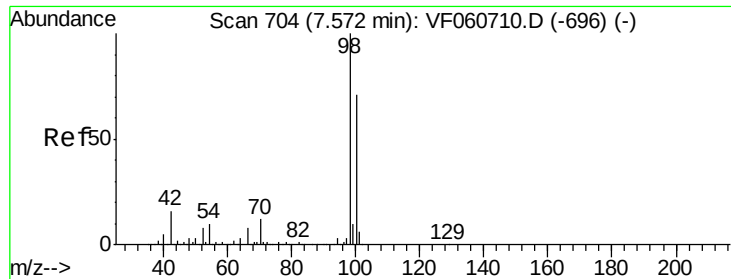


#41  
 Methacrylonitrile  
 Concen: Below Cal  
 RT: 4.78 min Scan# 421  
 Delta R.T. 0.02 min  
 Lab File: VF060814.D  
 Acq: 20 Nov 2018 20:36

Tgt Ion: 41 Resp: 548  
 Ion Ratio Lower Upper  
 41 100  
 39 34.6 47.1 70.7#  
 67 0.0 37.1 55.7#  
 52 0.0 39.3 58.9#







#50

Toluene-d8

Concen: 46.932 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF060814.D

Acq: 20 Nov 2018 20:36

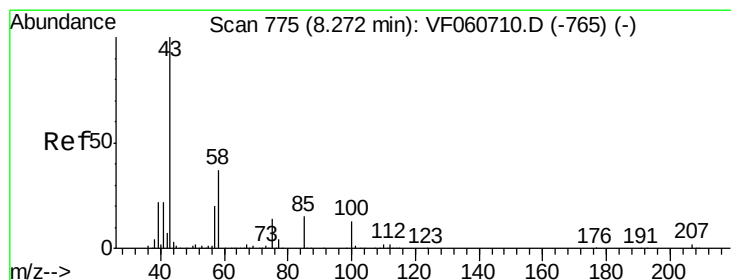
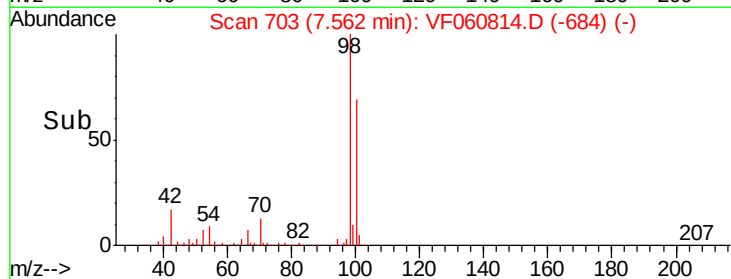
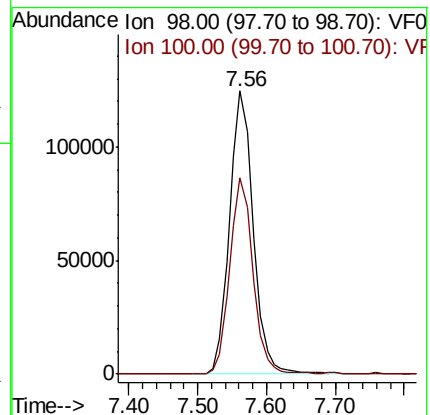
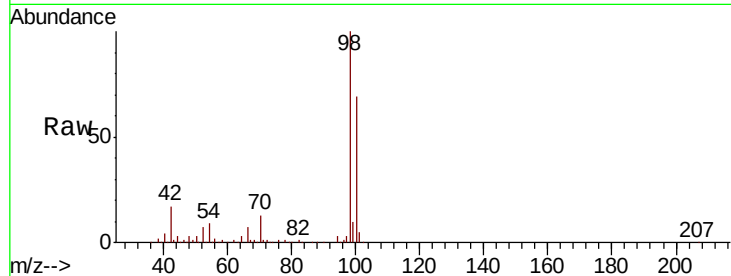
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 98 Resp: 298265

Ion Ratio Lower Upper

98 100

100 69.3 56.5 84.7



#51

4-Methyl-2-Pentanone

Concen: 1.880 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF060814.D

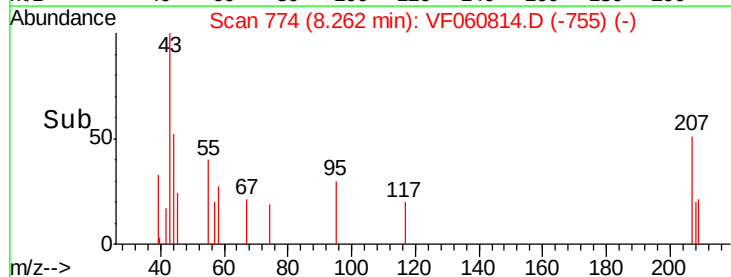
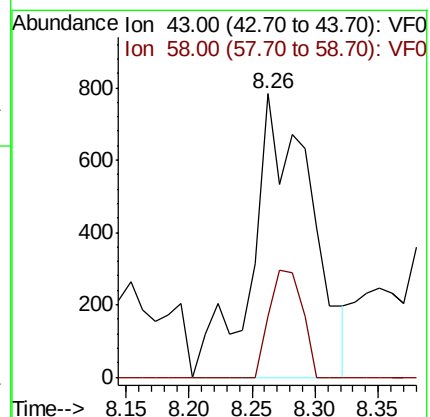
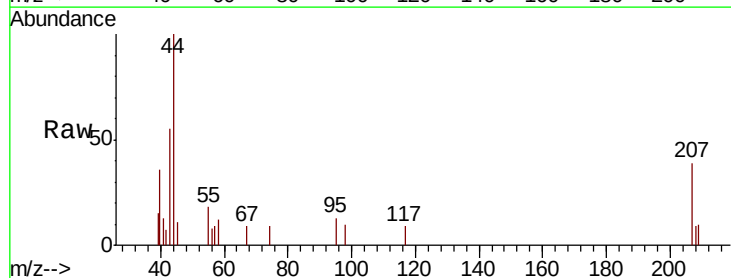
Acq: 20 Nov 2018 20:36

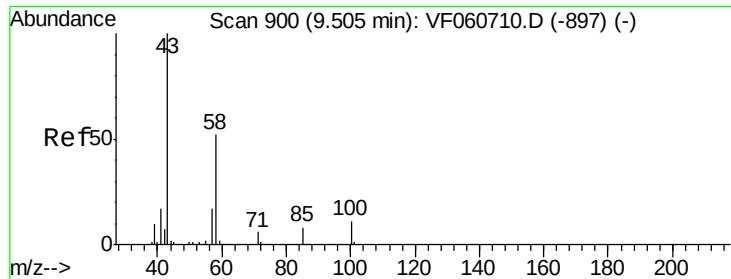
Tgt Ion: 43 Resp: 2549

Ion Ratio Lower Upper

43 100

58 21.7 29.2 43.8#

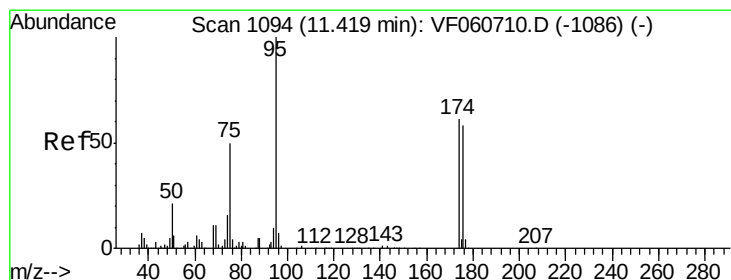
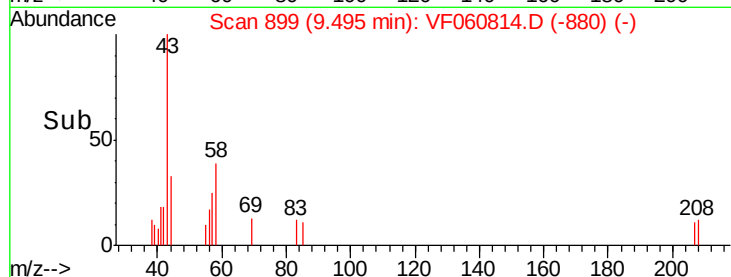
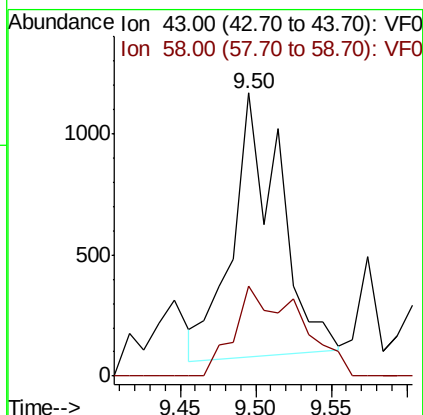
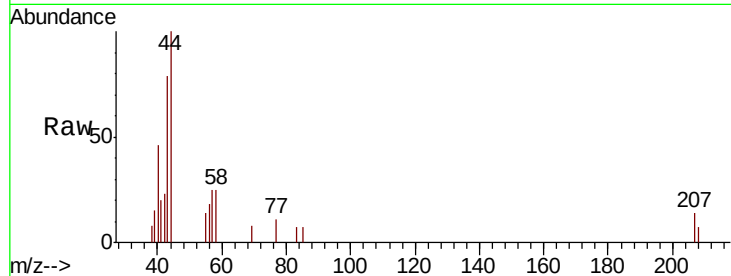




#59  
2-Hexanone  
Concen: 2.494 ug/l  
RT: 9.50 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

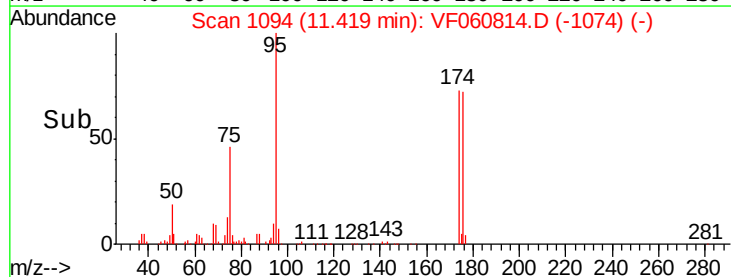
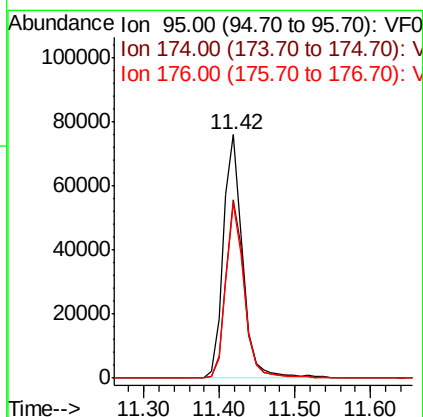
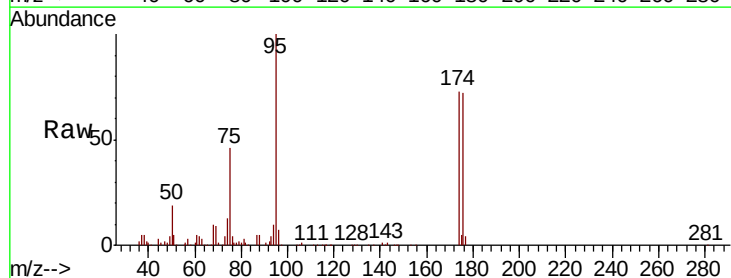
Instrument :  
MSVOA\_F  
ClientSampled :

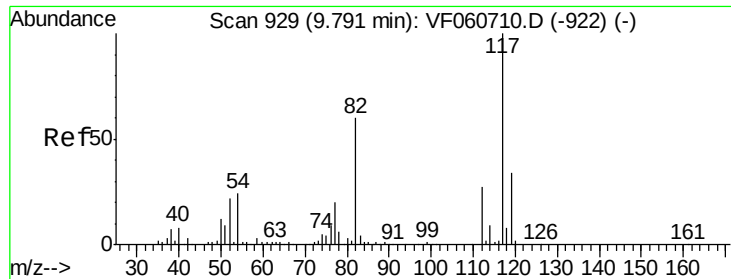
Tot Ion: 43 Resp: 2376  
Ion Ratio Lower Upper  
43 100  
58 31.8 24.9 74.7



#62  
4-Bromofluorobenzene  
Concen: 45.879 ug/l  
RT: 11.42 min Scan# 1094  
Delta R.T. 0.00 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

Tgt Ion: 95 Resp: 134789  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 121.6  
176 71.7 0.0 115.2

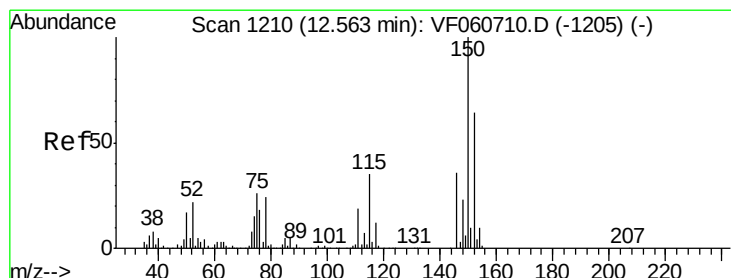
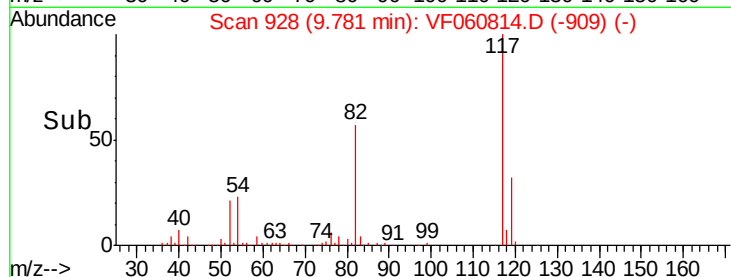
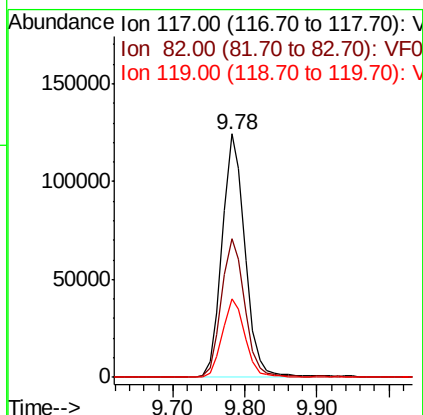
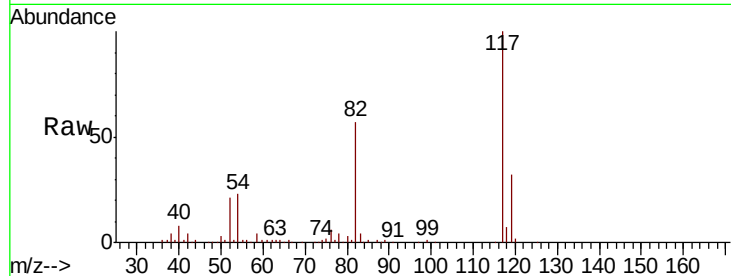




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.01 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

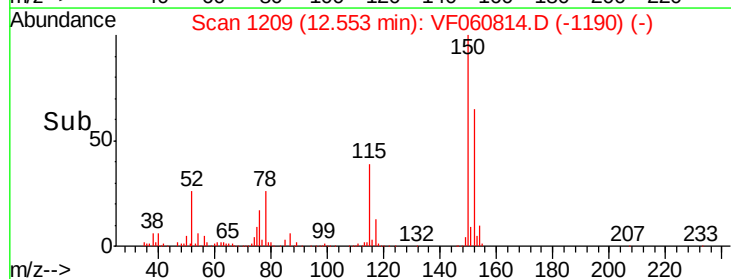
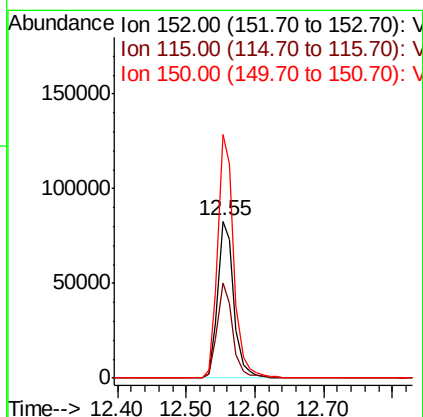
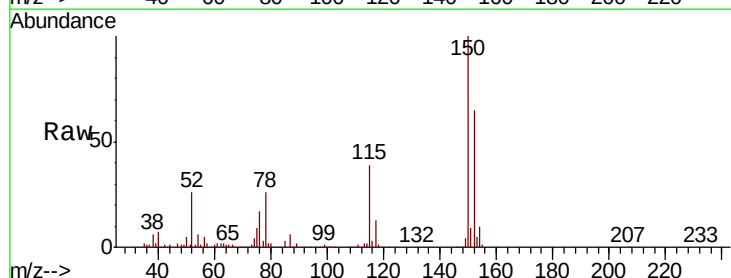
Instrument :  
MSVOA\_F  
ClientSampleId :

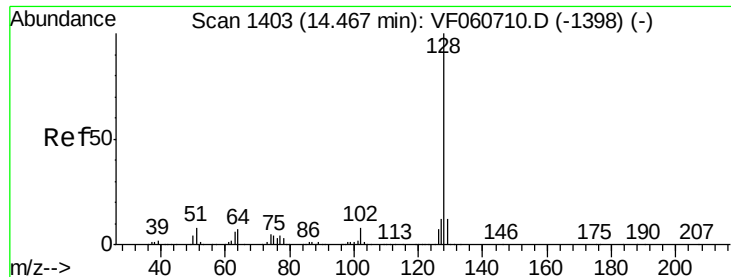
Tot Ion:117 Resp: 275022  
Ion Ratio Lower Upper  
117 100  
82 57.1 47.9 71.9  
119 32.5 26.8 40.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: VF060814.D  
Acq: 20 Nov 2018 20:36

Tgt Ion:152 Resp: 134600  
Ion Ratio Lower Upper  
152 100  
115 60.6 27.9 83.7  
150 154.9 0.0 316.4

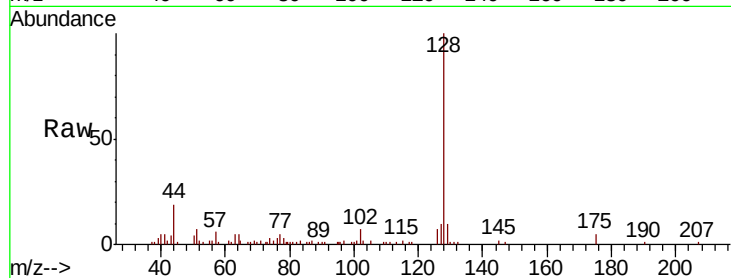




#95  
 Naphthalene  
 Concen: 4.444 ug/l  
 RT: 14.47 min Scan# 1403  
 Delta R.T. -0.00 min  
 Lab File: VF060814.D  
 Acq: 20 Nov 2018 20:36

Instrument :  
 MSVOA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 10.1  | 9.8   | 14.6  |
| 129     | 9.8   | 9.3   | 13.9  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

