

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\  
 Data File : VF061965.D  
 Acq On : 15 Mar 2019 17:10  
 Operator : VA/AP  
 Sample : K1928-08  
 Misc : 6.66g/5mL/MSVOA-F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 A1-2-H3(2.5-3)

Quant Time: Mar 15 23:17:51 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

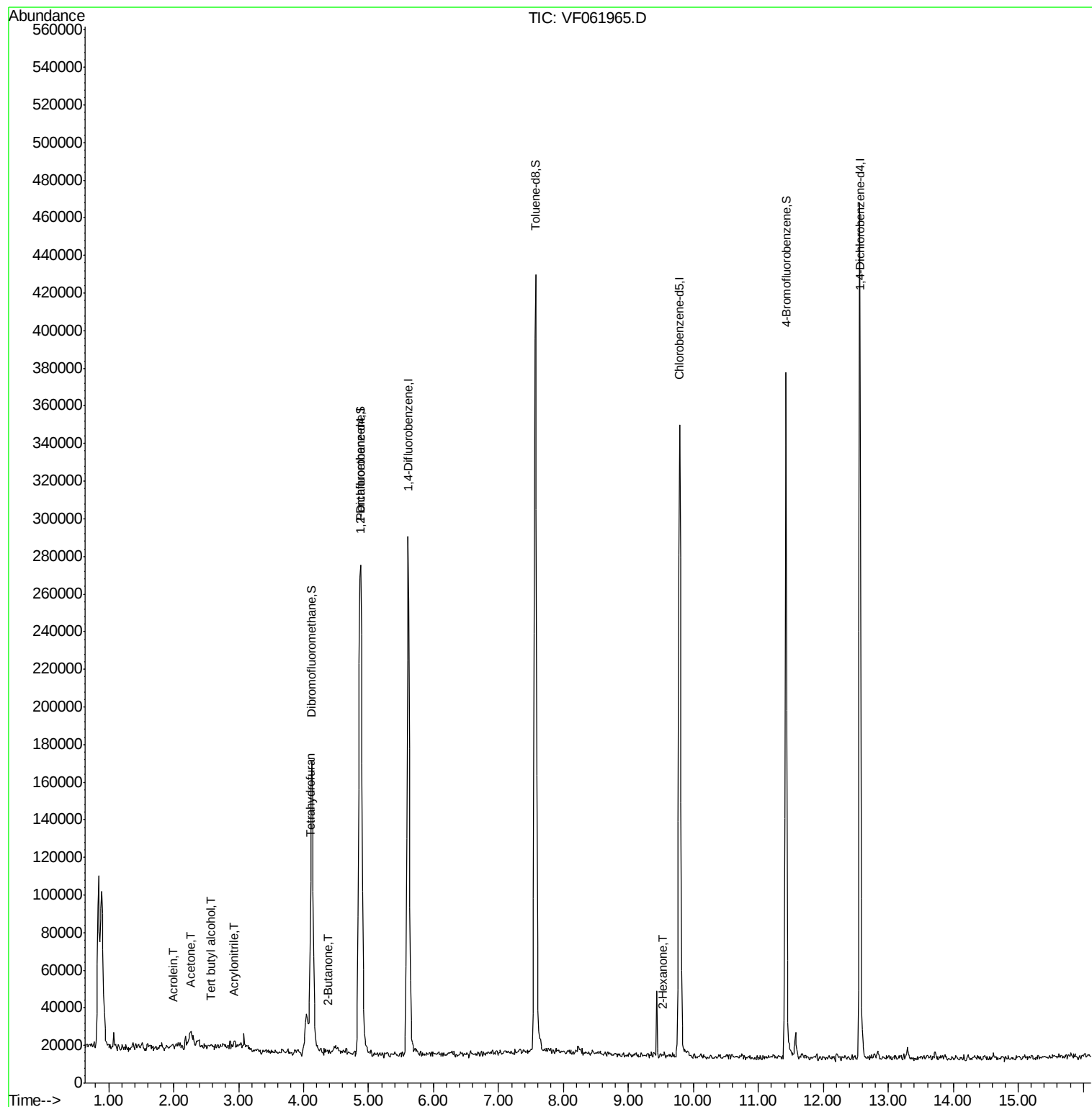
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene       | 4.89  | 168  | 215882   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.61  | 114  | 338682   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.79  | 117  | 266966   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.56 | 152  | 123946   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.86  | 65   | 117280   | 74.60     | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 149.20% |          |
| 35) Dibromofluoromethane    | 4.13  | 113  | 146553   | 62.01     | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 124.02% |          |
| 50) Toluene-d8              | 7.57  | 98   | 377074   | 53.67     | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 107.34% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 150638   | 54.74     | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =         | 109.48% |          |
| Target Compounds            |       |      |          |           |         |          |
|                             |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol      | 2.57  | 59   | 101      | 1.132     | ug/l #  | 64       |
| 13) Acrolein                | 2.01  | 56   | 346      | 3.060     | ug/l    | 98       |
| 15) Acrylonitrile           | 2.93  | 53   | 316      | 1.112     | ug/l #  | 70       |
| 16) Acetone                 | 2.26  | 43   | 1173     | 3.562     | ug/l #  | 50       |
| 18) Methyl Acetate          | 2.38  | 43   | 4733     | Below Cal | #       | 62       |
| 20) Methylene Chloride      | 2.20  | 84   | 1947     | Below Cal | #       | 71       |
| 25) 2-Butanone              | 4.36  | 43   | 689      | 1.029     | ug/l #  | 56       |
| 29) Tetrahydrofuran         | 4.10  | 42   | 1037     | 3.590     | ug/l #  | 60       |
| 59) 2-Hexanone              | 9.52  | 43   | 1385     | 1.678     | ug/l    | 68       |

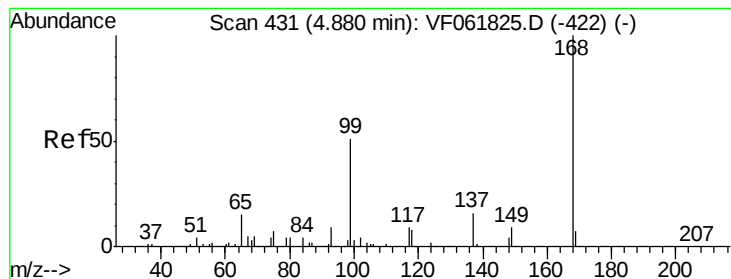
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031519\  
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A1-2-H3(2.5-3)

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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: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

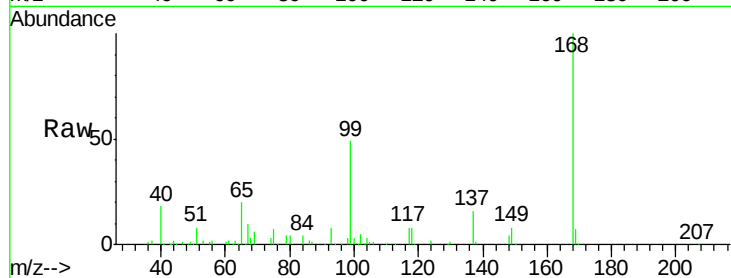
Instrument :  
MSVOA\_F  
ClientSampleId :  
A1-2-H3(2.5-3)

Tot Ion:168 Resp: 215882

Ion Ratio Lower Upper

168 100

99 49.3 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.89

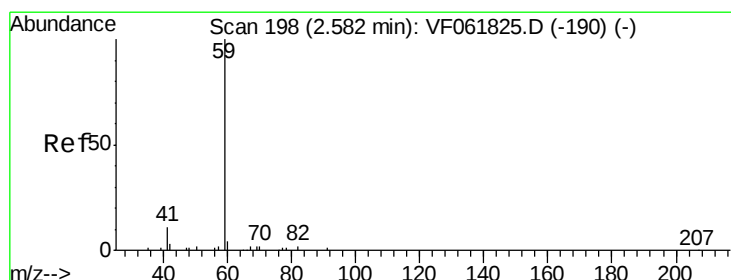
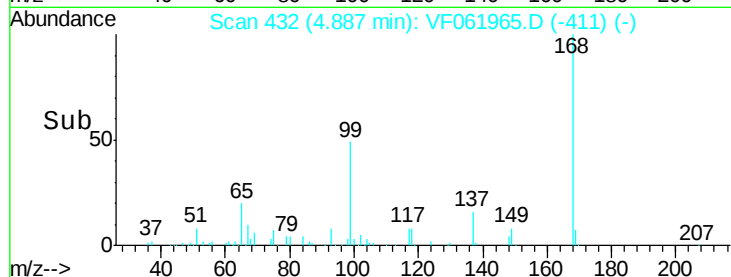
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.132 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061965.D

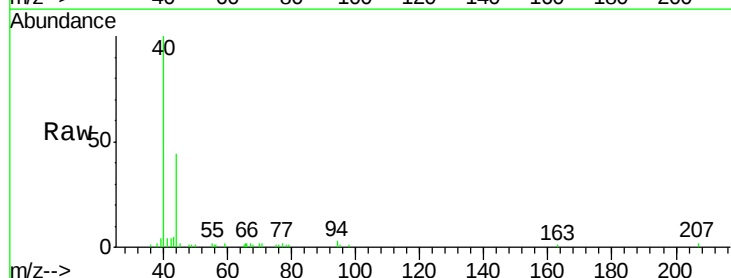
Acq: 15 Mar 2019 17:10

Tgt Ion: 59 Resp: 101

Ion Ratio Lower Upper

59 100

57 0.0 11.8 17.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

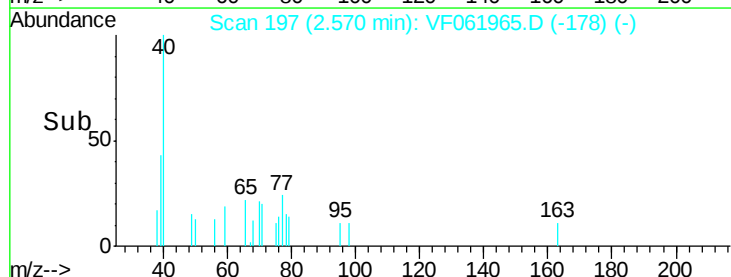
150

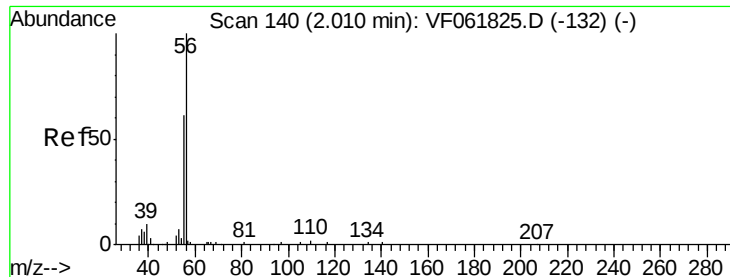
100

50

0

Time--> 2.54 2.56 2.58





#13

Acrolein

Concen: 3.060 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

Instrument :

MSVOA\_F

ClientSampleId :

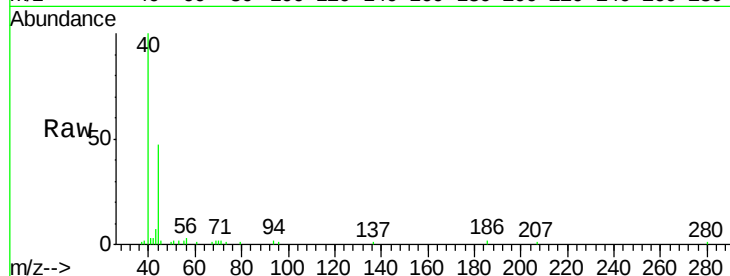
A1-2-H3(2.5-3)

Tot Ion: 56 Resp: 346

Ion Ratio Lower Upper

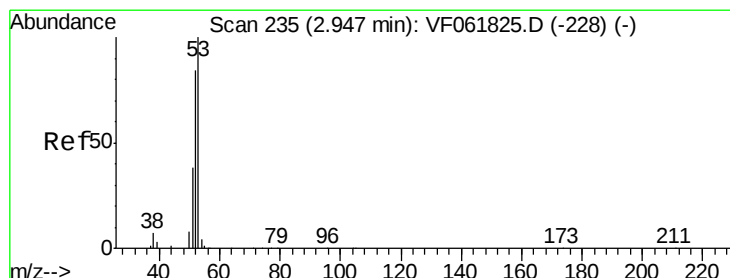
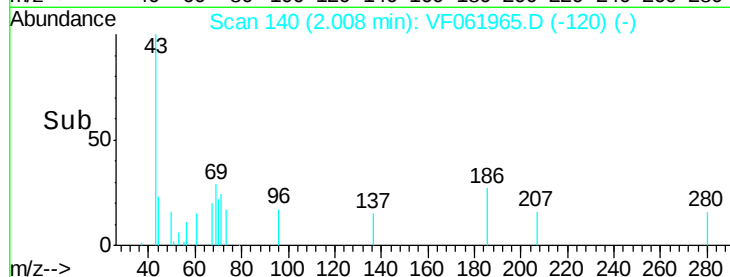
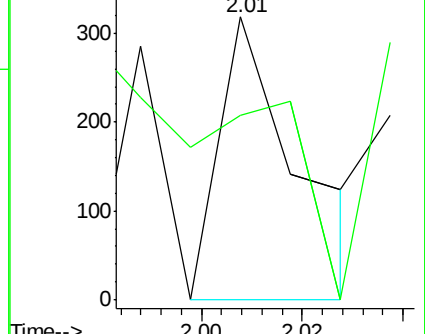
56 100

55 65.4 51.3 76.9



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.112 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

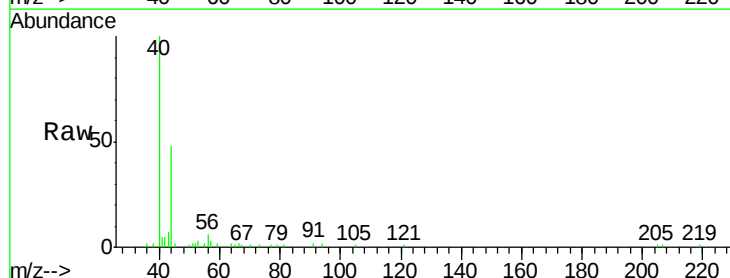
Tgt Ion: 53 Resp: 316

Ion Ratio Lower Upper

53 100

52 59.7 67.4 101.0#

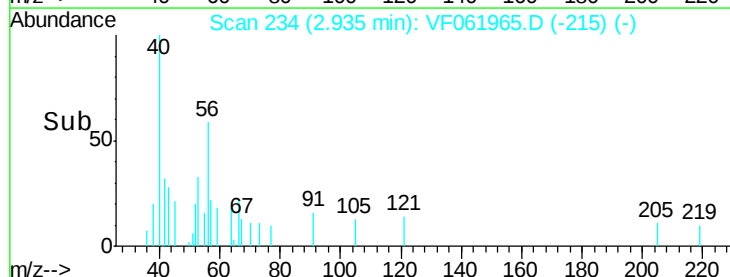
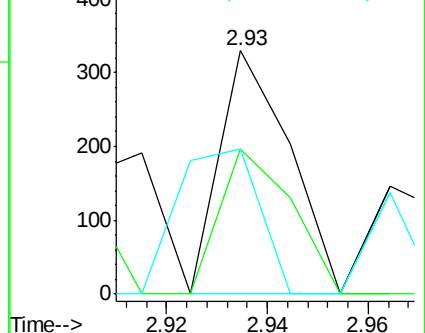
51 59.7 30.7 46.1#

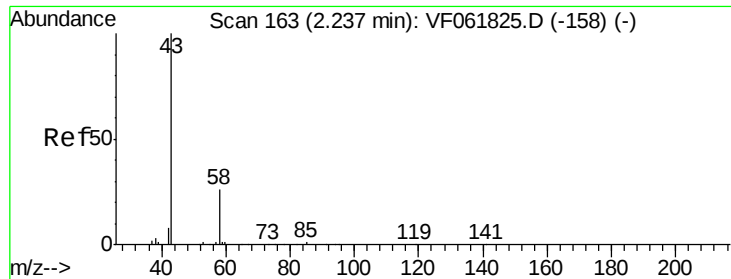


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 3.562 ug/l

RT: 2.26 min Scan# 166

Delta R.T. 0.03 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

Instrument :

MSVOA\_F

ClientSampleId :

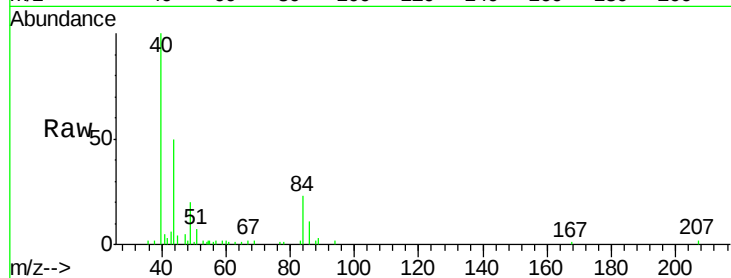
A1-2-H3(2.5-3)

Tot Ion: 43 Resp: 1173

Ion Ratio Lower Upper

43 100

58 0.0 20.3 30.5#

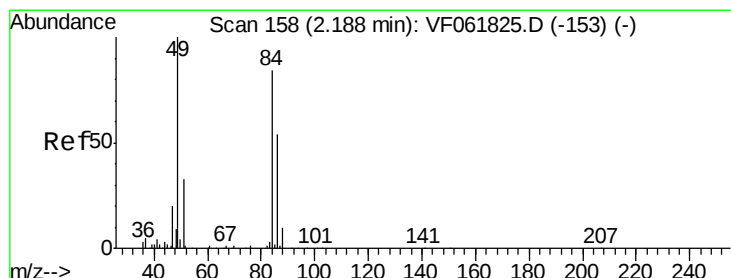
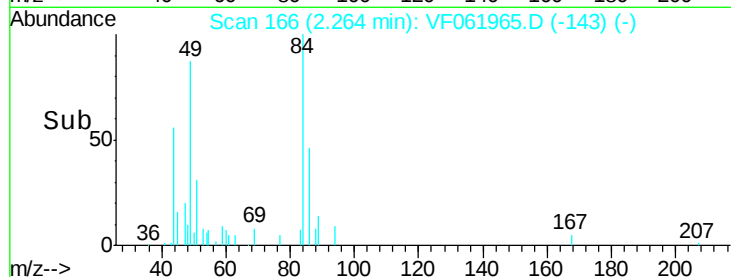
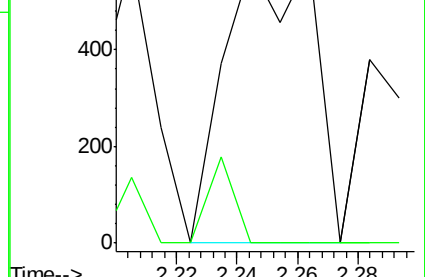


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.26

2.22 2.24 2.26 2.28



#20

Methylene Chloride

Concen: Below Cal

RT: 2.20 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

Tgt Ion: 84 Resp: 1947

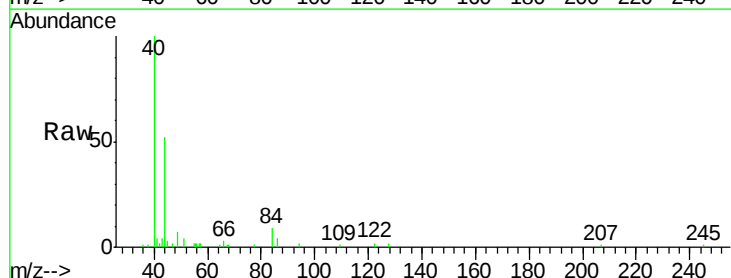
Ion Ratio Lower Upper

84 100

49 78.8 96.8 145.2#

51 39.9 31.8 47.6

86 40.6 51.6 77.4#



Abundance Ion 84.00 (83.70 to 84.70): VF0

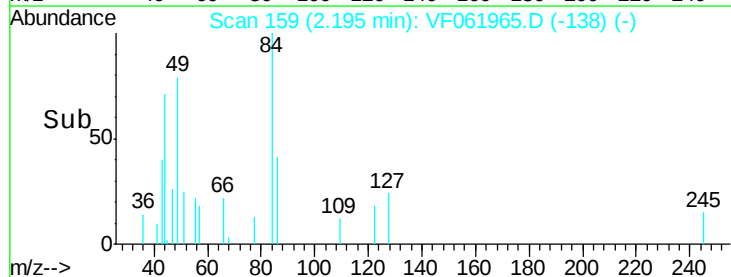
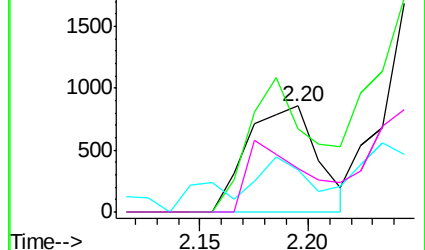
Ion 49.00 (48.70 to 49.70): VF0

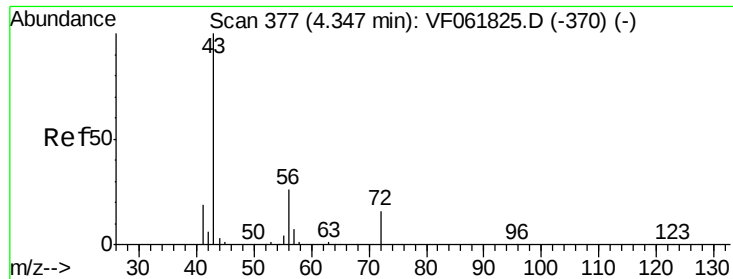
Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

2.20

2.15 2.20 2.25





#25

2-Butanone

Concen: 1.029 ug/l

RT: 4.36 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

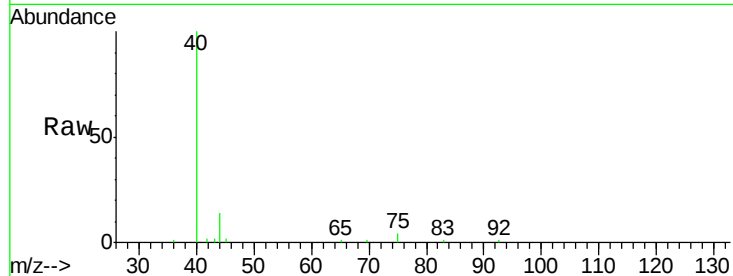
Instrument :  
MSVOA\_F  
ClientSampleId :  
A1-2-H3(2.5-3)

Tot Ion: 43 Resp: 689

Ion Ratio Lower Upper

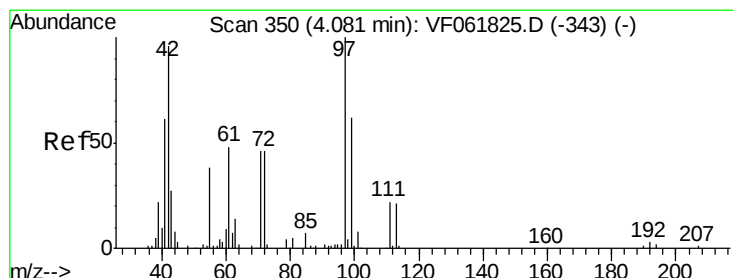
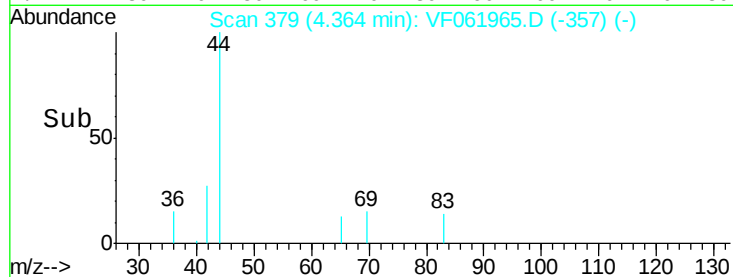
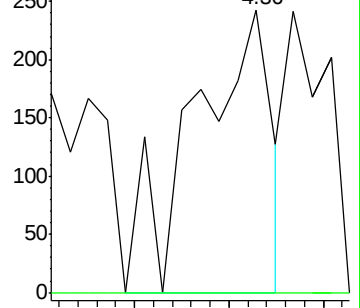
43 100

72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.590 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

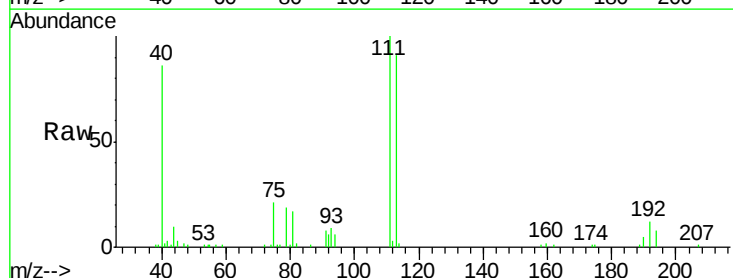
Tgt Ion: 42 Resp: 1037

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

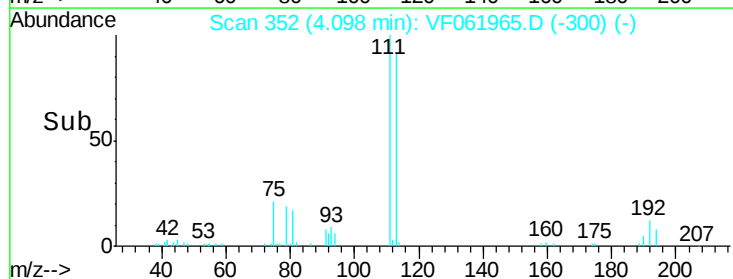
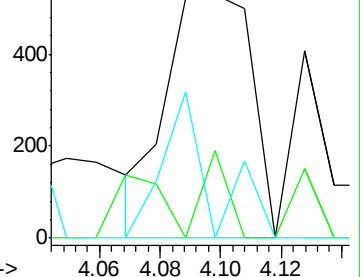
71 34.7 34.6 52.0

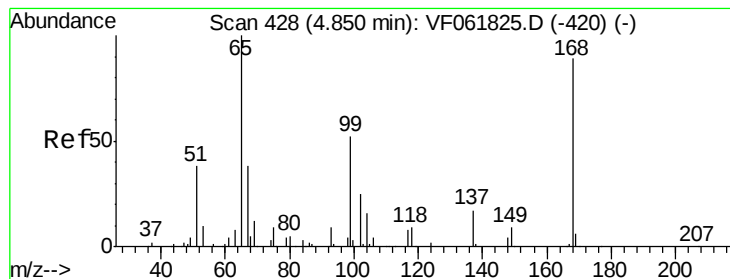


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 74.598 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

Instrument :

MSVOA\_F

ClientSampleId :

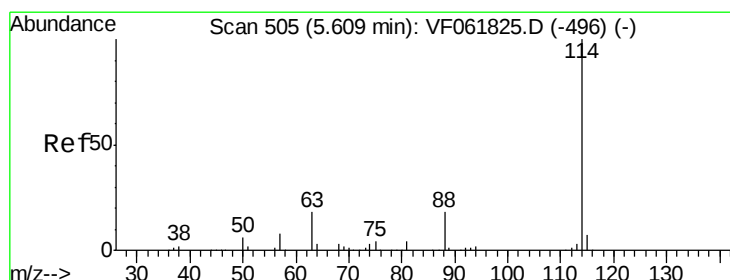
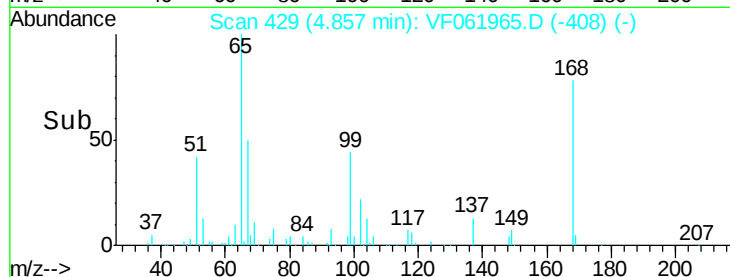
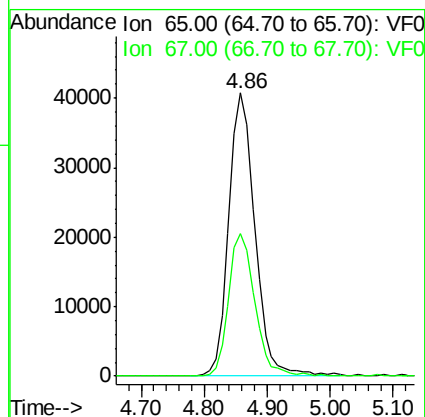
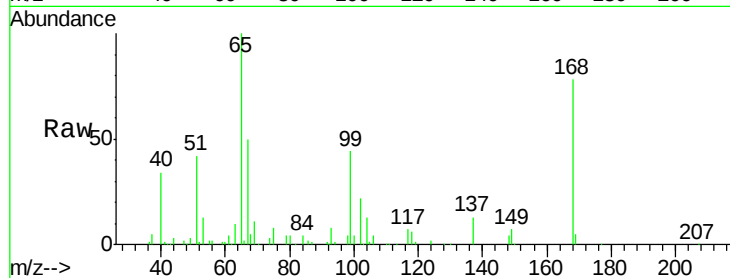
A1-2-H3(2.5-3)

Tot Ion: 65 Resp: 117280

Ion Ratio Lower Upper

65 100

67 50.2 0.0 108.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.00 min

Lab File: VF061965.D

Acq: 15 Mar 2019 17:10

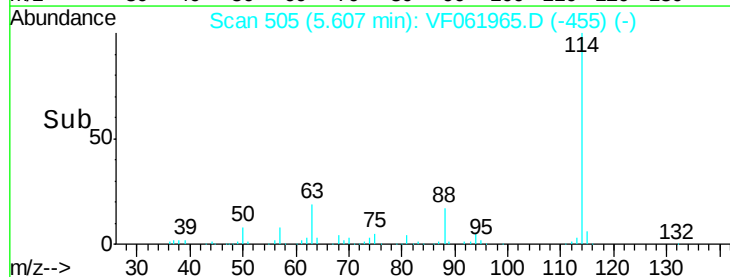
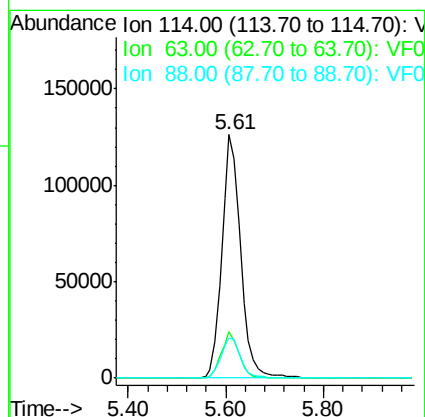
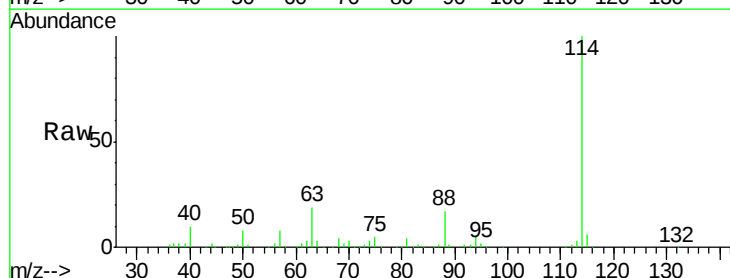
Tgt Ion: 114 Resp: 338682

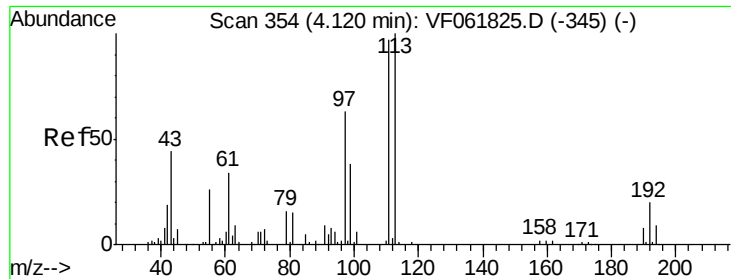
Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.6

88 16.6 0.0 35.6

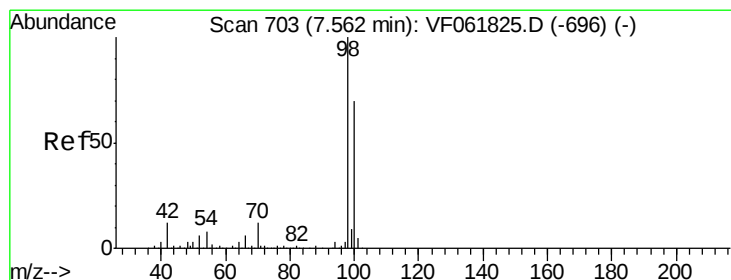
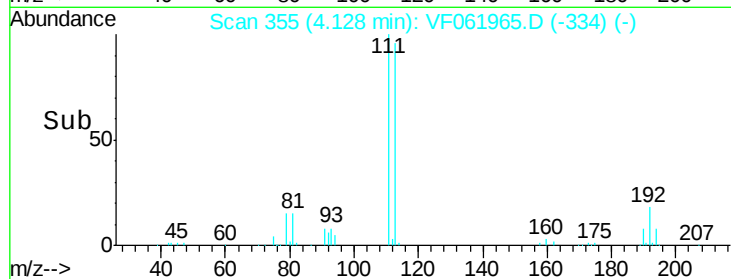
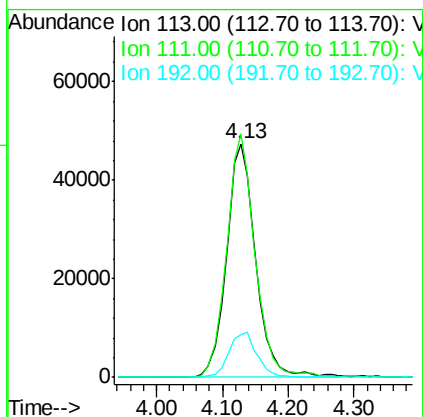
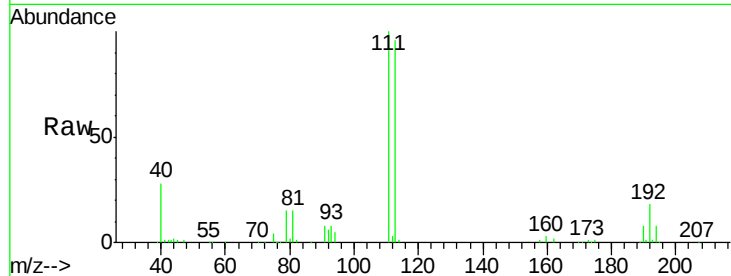




#35  
Dibromofluoromethane  
Concen: 62.005 ug/l  
RT: 4.13 min Scan# 355  
Delta R.T. 0.01 min  
Lab File: VF061965.D  
Acq: 15 Mar 2019 17:10

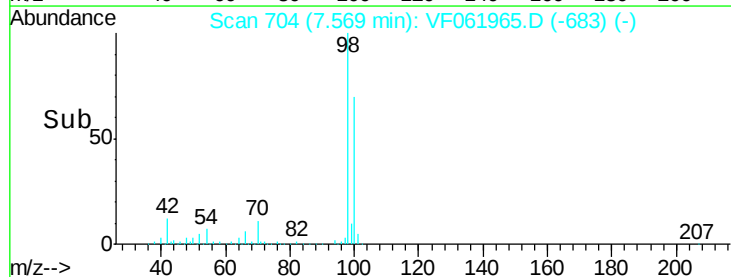
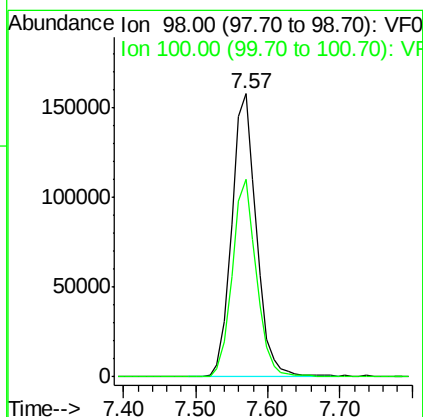
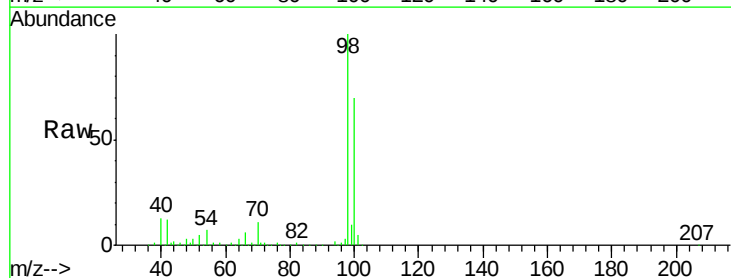
Instrument :  
MSVOA\_F  
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A1-2-H3(2.5-3)

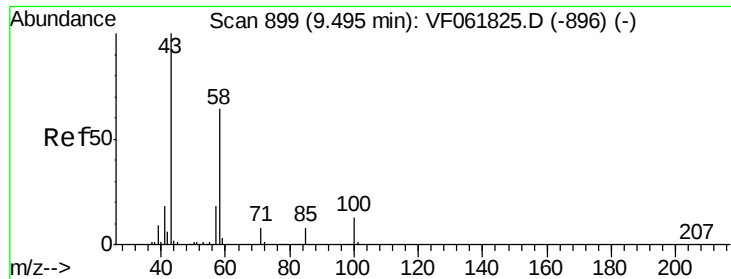
Tot Ion:113 Resp: 146553  
Ion Ratio Lower Upper  
113 100  
111 104.3 77.6 116.4  
192 18.9 15.9 23.9



#50  
Toluene-d8  
Concen: 53.674 ug/l  
RT: 7.57 min Scan# 704  
Delta R.T. 0.01 min  
Lab File: VF061965.D  
Acq: 15 Mar 2019 17:10

Tgt Ion: 98 Resp: 377074  
Ion Ratio Lower Upper  
98 100  
100 69.6 56.0 84.0

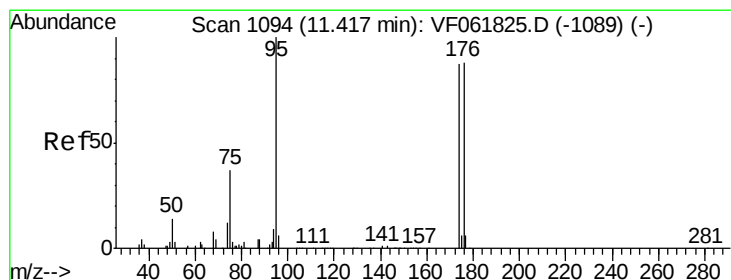
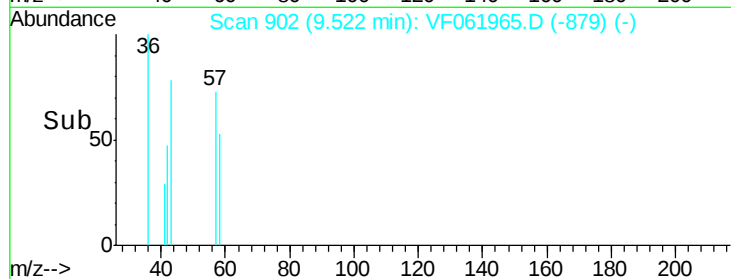
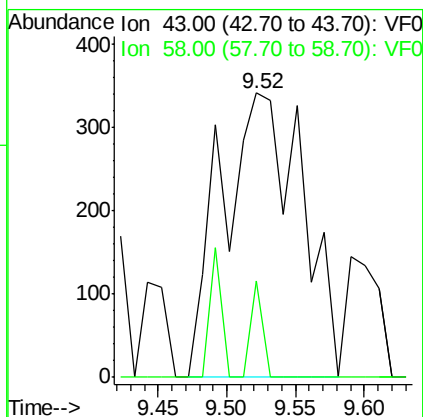
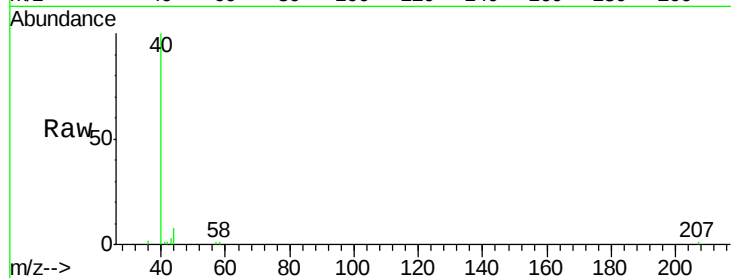




#59  
2-Hexanone  
Concen: 1.678 ug/l  
RT: 9.52 min Scan# 902  
Delta R.T. 0.03 min  
Lab File: VF061965.D  
Acq: 15 Mar 2019 17:10

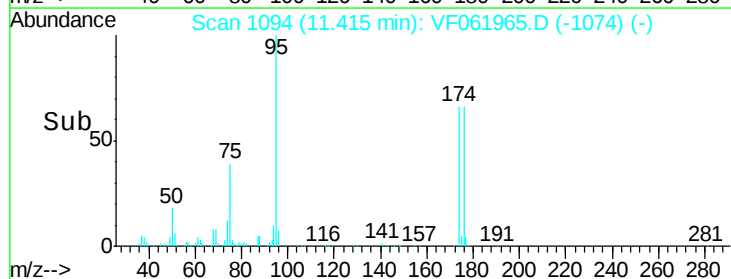
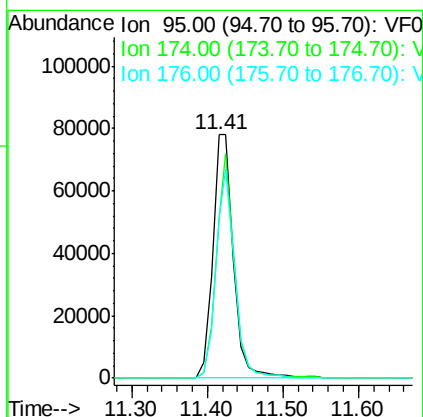
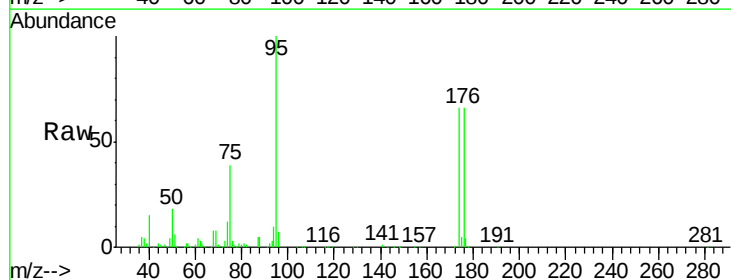
Instrument :  
MSVOA\_F  
ClientSampleId :  
A1-2-H3(2.5-3)

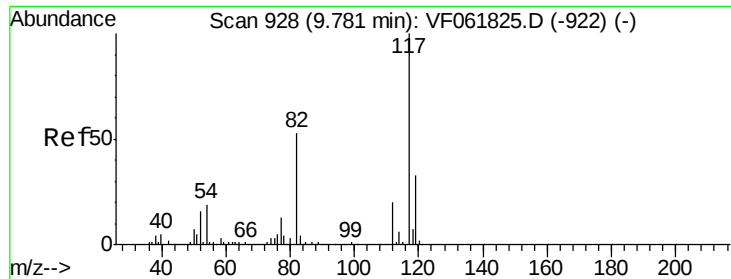
Tot Ion: 43 Resp: 1385  
Ion Ratio Lower Upper  
43 100  
58 33.7 28.8 86.4



#62  
4-Bromofluorobenzene  
Concen: 54.739 ug/l  
RT: 11.41 min Scan# 1094  
Delta R.T. -0.00 min  
Lab File: VF061965.D  
Acq: 15 Mar 2019 17:10

Tgt Ion: 95 Resp: 150638  
Ion Ratio Lower Upper  
95 100  
174 66.1 0.0 174.0  
176 66.1 0.0 175.2

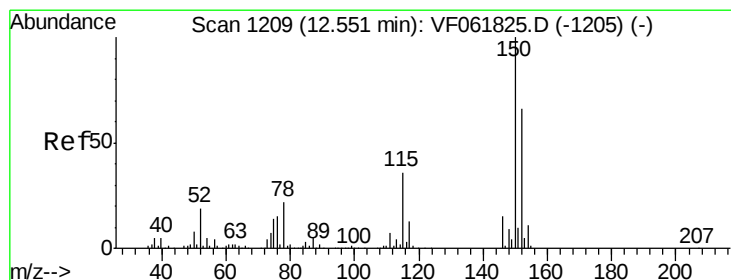
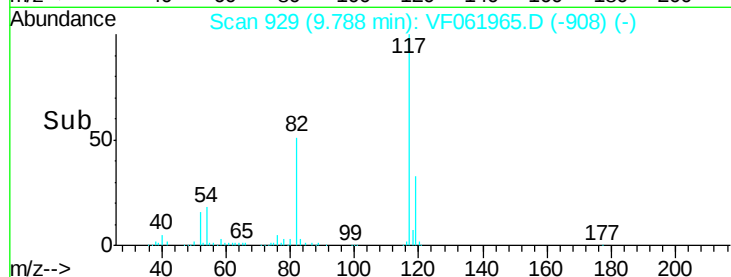
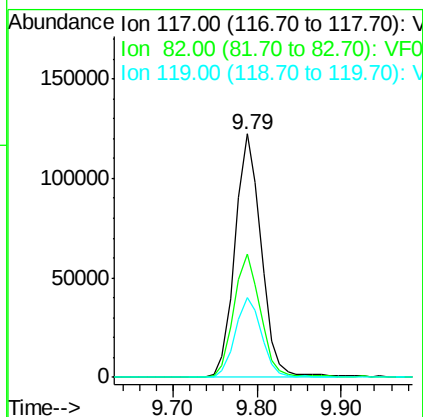
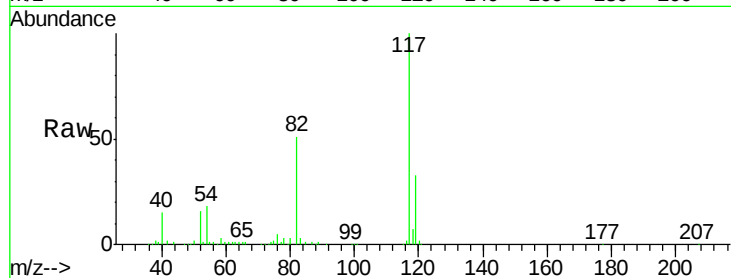




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.79 min Scan# 929  
Delta R.T. 0.01 min  
Lab File: VF061965.D  
Acq: 15 Mar 2019 17:10

Instrument :  
MSVOA\_F  
ClientSampleId :  
A1-2-H3(2.5-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.6  | 42.6  | 63.8  |
| 119     | 32.6  | 26.0  | 39.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1210  
Delta R.T. 0.01 min  
Lab File: VF061965.D  
Acq: 15 Mar 2019 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.9  | 27.7  | 83.1  |
| 150     | 155.7 | 0.0   | 304.2 |

