

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071018\  
 Data File : VF059497.D  
 Acq On : 10 Jul 2018 21:11  
 Operator : VA/AP  
 Sample : J3880-10RE  
 Misc : 5.15g/5mL/MSVOA F/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jul 11 00:58:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 06:35:36 2018  
 Response via : Initial Calibration

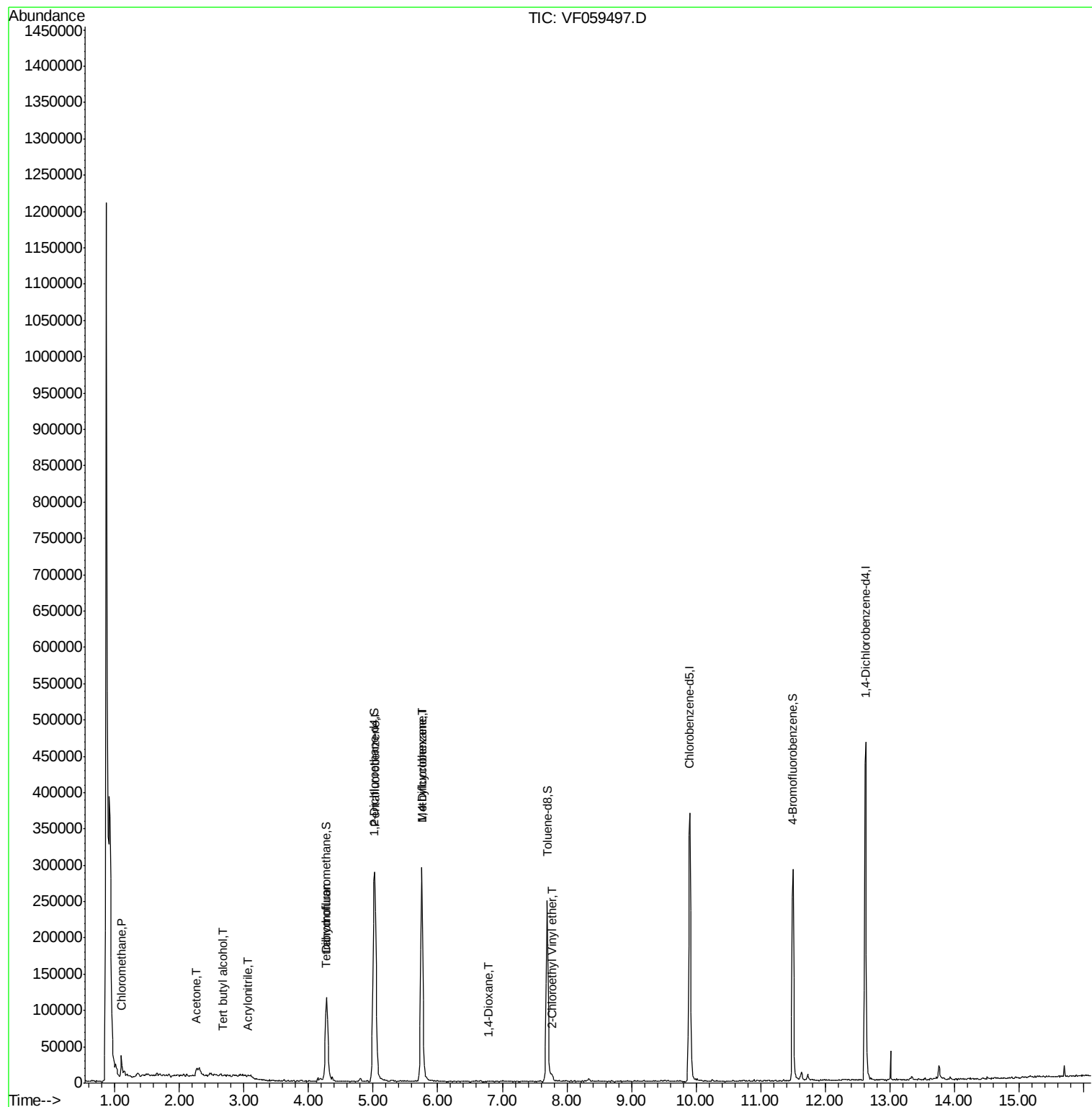
| Internal Standards            | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene         | 5.03  | 168  | 193224   | 50.00     | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene       | 5.76  | 114  | 284091   | 50.00     | ug/l   | 0.02     |
| 63) Chlorobenzene-d5          | 9.90  | 117  | 246486   | 50.00     | ug/l   | 0.02     |
| 72) 1,4-Dichlorobenzene-d4    | 12.63 | 152  | 121658   | 50.00     | ug/l   | 0.01     |
| System Monitoring Compounds   |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.01  | 65   | 120779   | 35.94     | ug/l   | 0.02     |
| Spiked Amount 50.000          |       |      | Recovery | =         | 71.88% |          |
| 35) Dibromofluoromethane      | 4.28  | 113  | 105294   | 38.63     | ug/l   | 0.02     |
| Spiked Amount 50.000          |       |      | Recovery | =         | 77.26% |          |
| 50) Toluene-d8                | 7.70  | 98   | 194173   | 30.28     | ug/l   | 0.02     |
| Spiked Amount 50.000          |       |      | Recovery | =         | 60.56% |          |
| 62) 4-Bromofluorobenzene      | 11.50 | 95   | 96308    | 26.92     | ug/l   | 0.02     |
| Spiked Amount 50.000          |       |      | Recovery | =         | 53.84% |          |
| Target Compounds              |       |      |          |           |        |          |
|                               |       |      |          |           | Qvalue |          |
| 3) Chloromethane              | 1.10  | 50   | 1833     | 1.366     | ug/l # | 42       |
| 11) Tert butyl alcohol        | 2.67  | 59   | 377      | 2.462     | ug/l # | 30       |
| 15) Acrylonitrile             | 3.05  | 53   | 525      | 1.878     | ug/l # | 67       |
| 16) Acetone                   | 2.28  | 43   | 514      | 1.022     | ug/l   | 94       |
| 20) Methylene Chloride        | 2.27  | 84   | 2403     | Below Cal | #      | 81       |
| 29) Tetrahydrofuran           | 4.26  | 42   | 877      | 2.732     | ug/l # | 65       |
| 39) Methylcyclohexane         | 5.76  | 83   | 5018     | 1.991     | ug/l # | 37       |
| 49) 1,4-Dioxane               | 6.78  | 88   | 63       | 9.650     | ug/l # | 38       |
| 58) 2-Chloroethyl Vinyl ether | 7.77  | 63   | 945      | 5.091     | ug/l   | 100      |

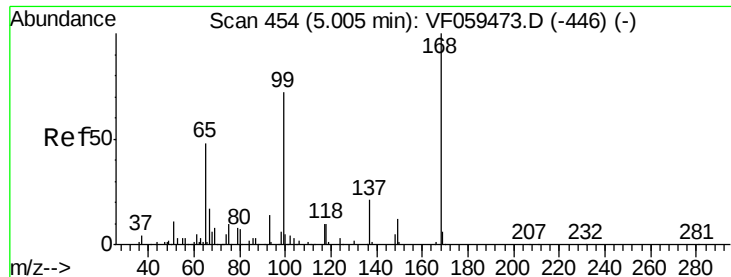
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF071018\  
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MSVOA\_F  
ClientSampleId :

Quant Time: Jul 11 00:58:05 2018  
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Quant Title : SW846 8260  
QLast Update : Sat Jul 07 06:35:36 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.02 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

Instrument :

MSVOA\_F

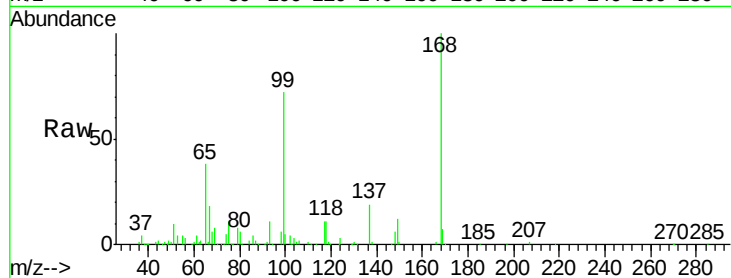
ClientSampled :

Tot Ion:168 Resp: 193224

Ion Ratio Lower Upper

168 100

99 72.3 57.7 86.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

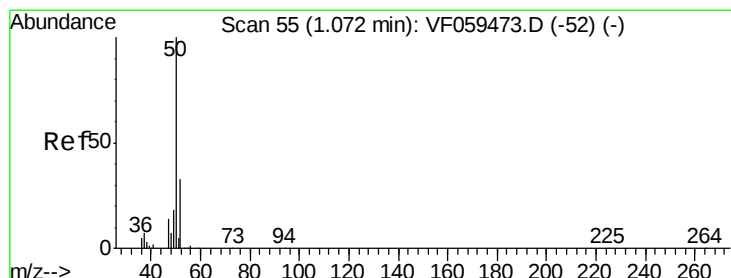
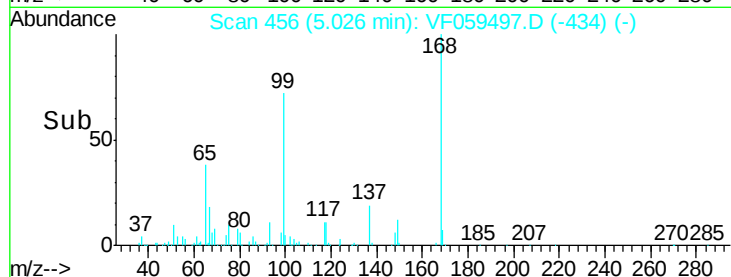
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#3

Chloromethane

Concen: 1.366 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.03 min

Lab File: VF059497.D

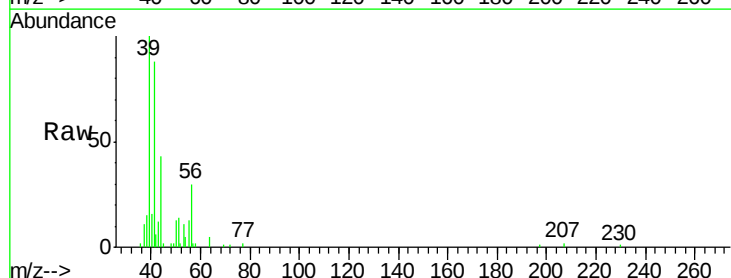
Acq: 10 Jul 2018 21:11

Tgt Ion: 50 Resp: 1833

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

1500

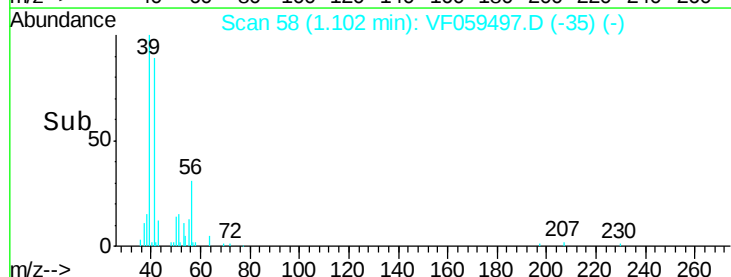
1000

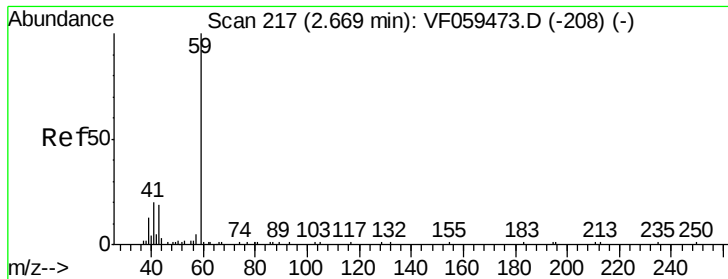
500

0

1.05 1.10 1.15

Time-->



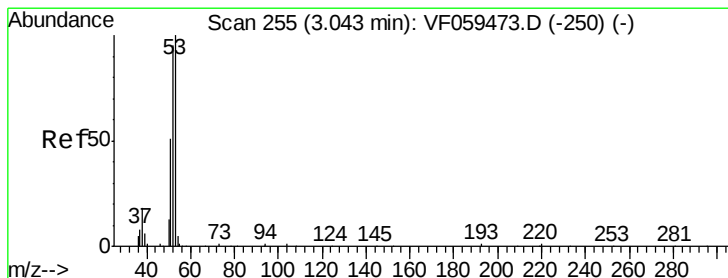
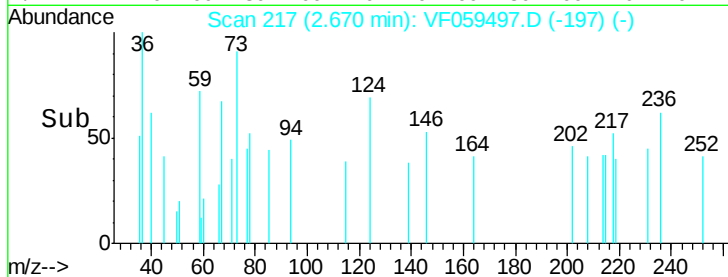
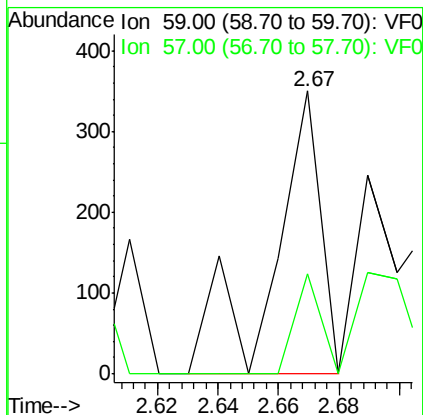
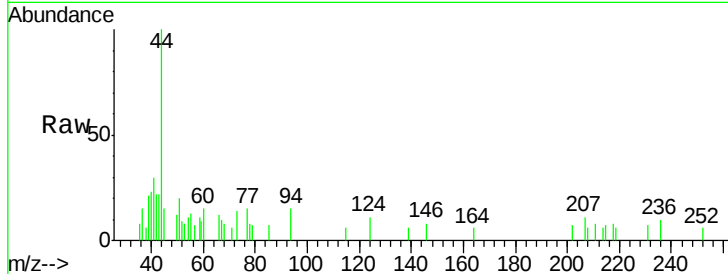


#11

Tert butyl alcohol  
 Concen: 2.462 ug/l  
 RT: 2.67 min Scan# 217  
 Delta R.T. 0.00 min  
 Lab File: VF059497.D  
 Acq: 10 Jul 2018 21:11

Instrument :  
 MSVOA\_F  
 ClientSampled :

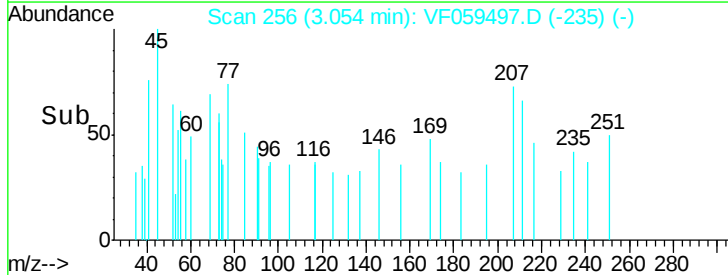
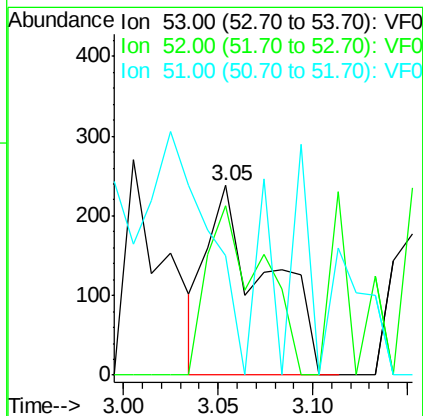
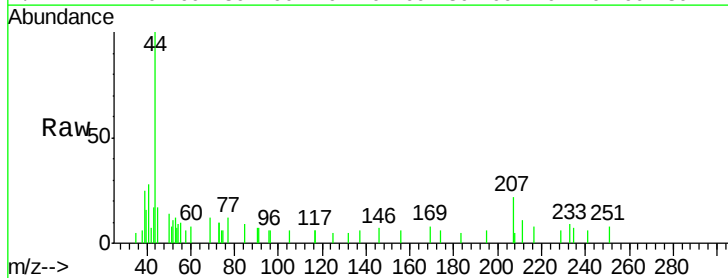
Tot Ion: 59 Resp: 377  
 Ion Ratio Lower Upper  
 59 100  
 57 35.4 7.8 11.8#

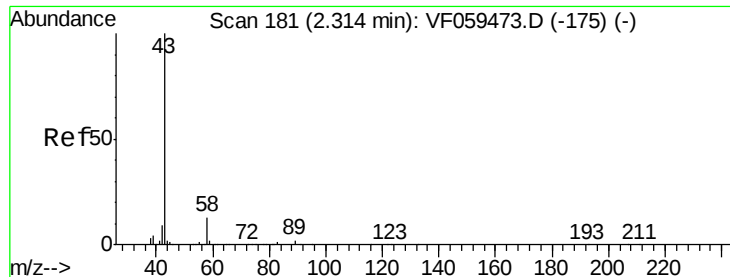


#15

Acrylonitrile  
 Concen: 1.878 ug/l  
 RT: 3.05 min Scan# 256  
 Delta R.T. 0.01 min  
 Lab File: VF059497.D  
 Acq: 10 Jul 2018 21:11

Tgt Ion: 53 Resp: 525  
 Ion Ratio Lower Upper  
 53 100  
 52 56.2 76.8 115.2#  
 51 39.8 41.8 62.8#





#16

Acetone

Concen: 1.022 ug/l

RT: 2.28 min Scan# 177

Delta R.T. -0.04 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

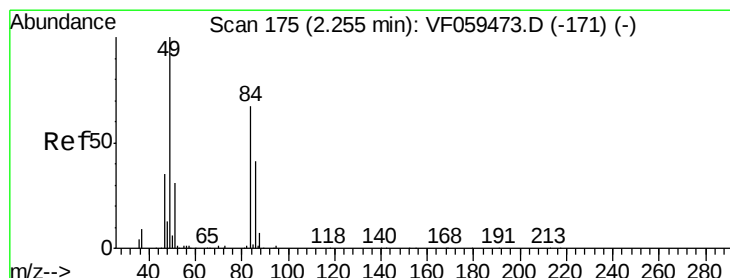
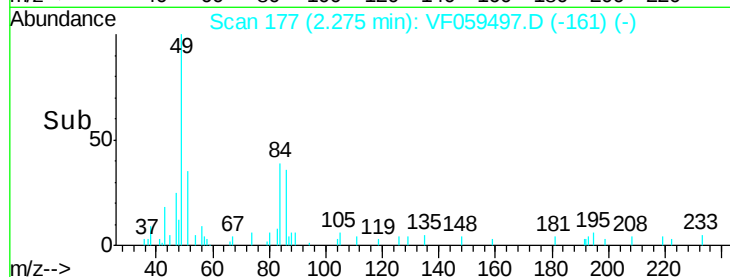
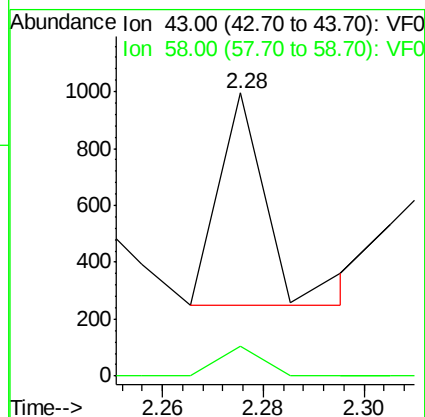
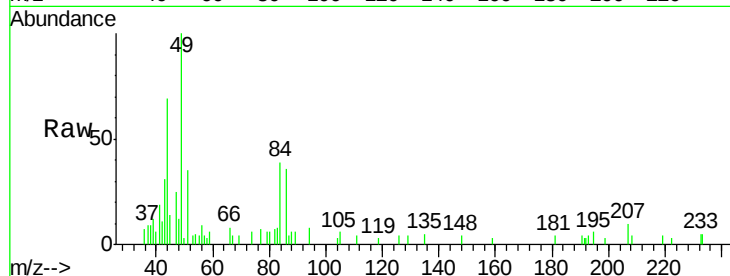
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 514

Ion Ratio Lower Upper

43 100

58 10.6 10.5 15.7



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

Tgt Ion: 84 Resp: 2403

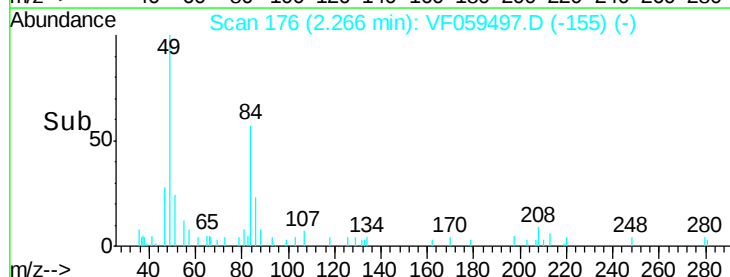
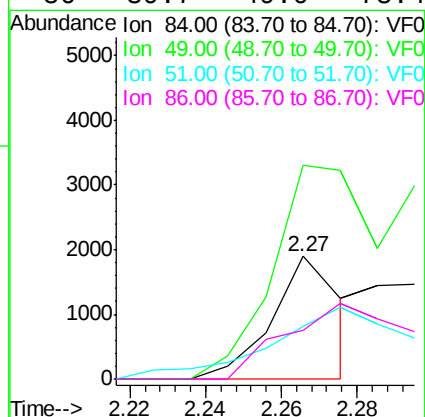
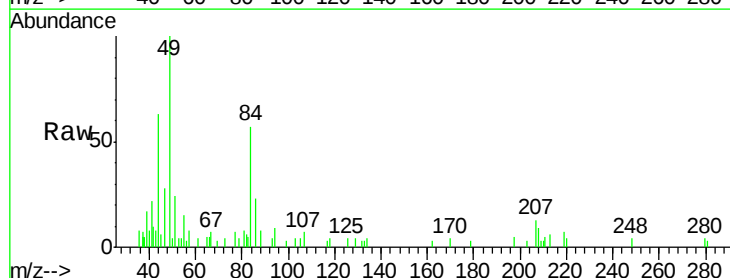
Ion Ratio Lower Upper

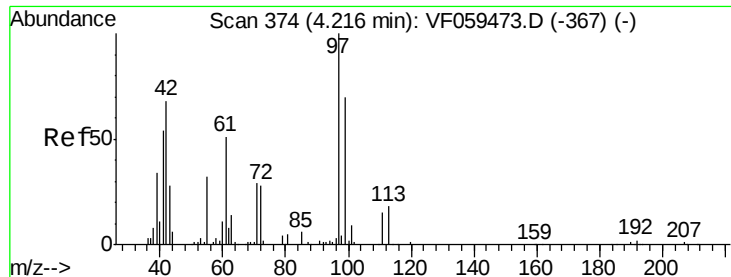
84 100

49 174.0 120.4 180.6

51 42.6 38.1 57.1

86 39.7 49.0 73.4#





#29

Tetrahydrofuran

Concen: 2.732 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.04 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

Instrument :

MSVOA\_F

ClientSampleId :

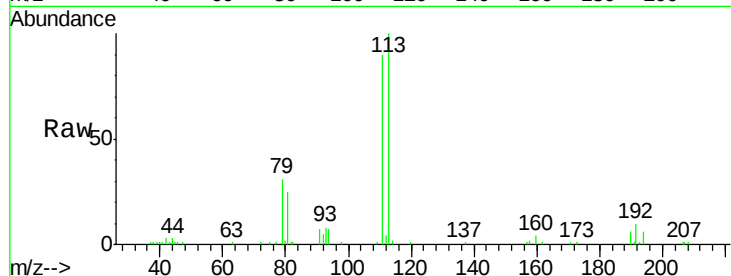
Tot Ion: 42 Resp: 877

Ion Ratio Lower Upper

42 100

72 25.0 29.2 43.8#

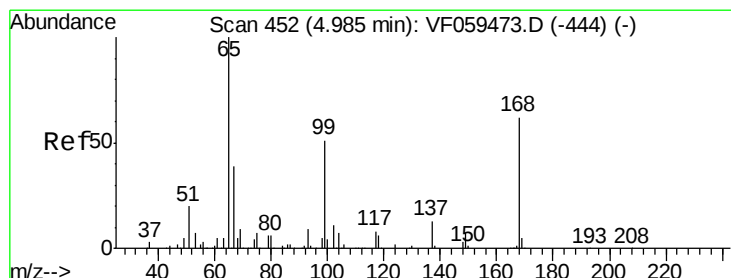
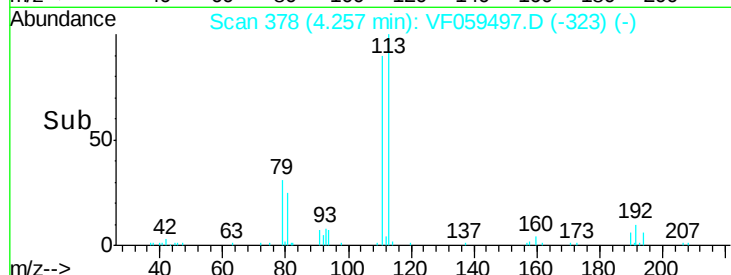
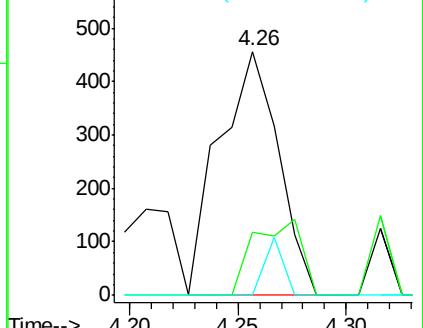
71 7.3 30.1 45.1#



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: 35.938 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.02 min

Lab File: VF059497.D

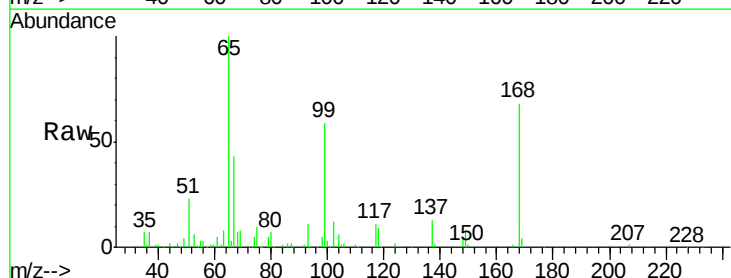
Acq: 10 Jul 2018 21:11

Tgt Ion: 65 Resp: 120779

Ion Ratio Lower Upper

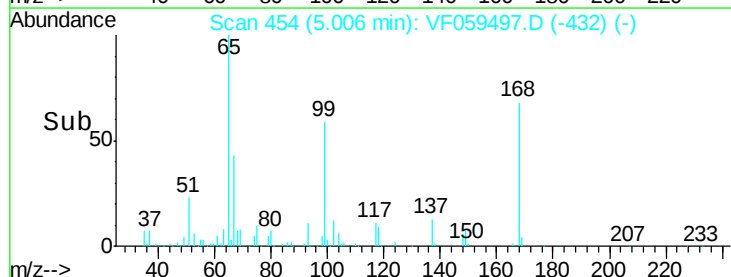
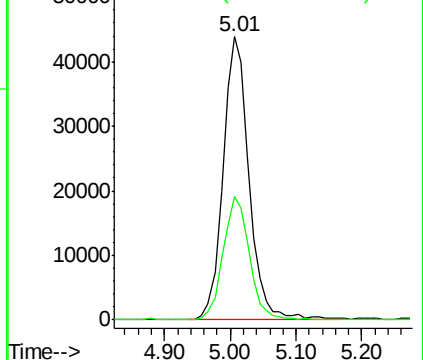
65 100

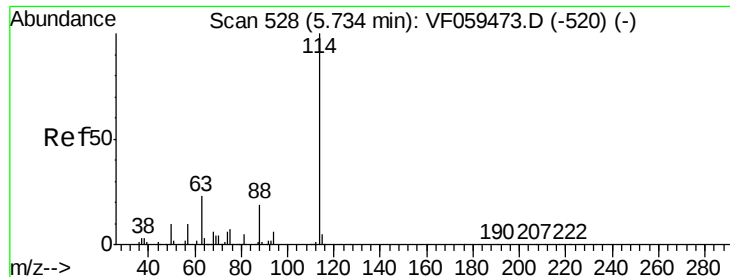
67 43.4 0.0 88.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.02 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

Instrument :

MSVOA\_F

ClientSampleId :

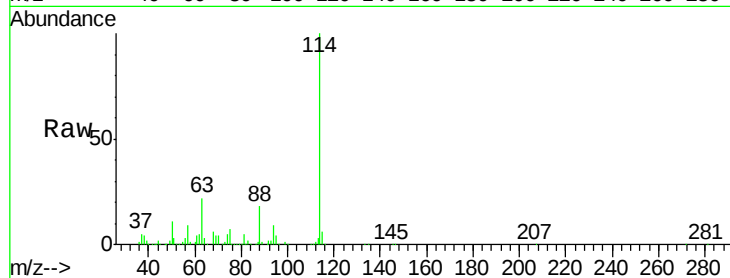
Tot Ion:114 Resp: 284091

Ion Ratio Lower Upper

114 100

63 22.2 0.0 47.2

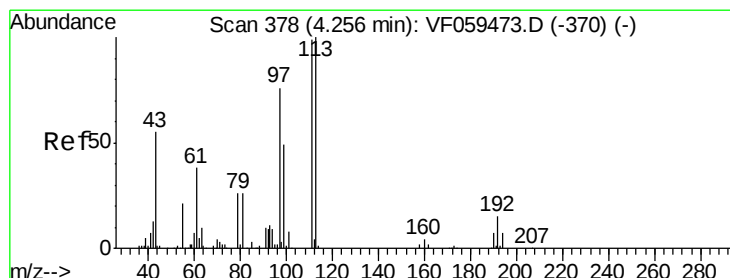
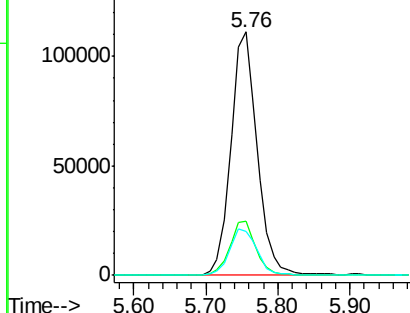
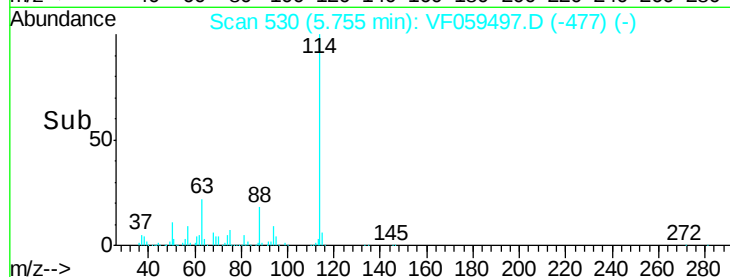
88 18.1 0.0 38.0



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: 38.628 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

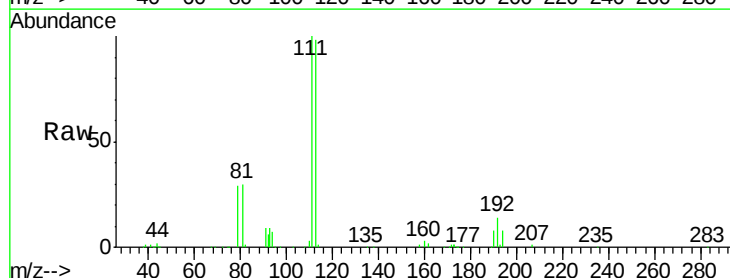
Tgt Ion:113 Resp: 105294

Ion Ratio Lower Upper

113 100

111 102.4 79.3 118.9

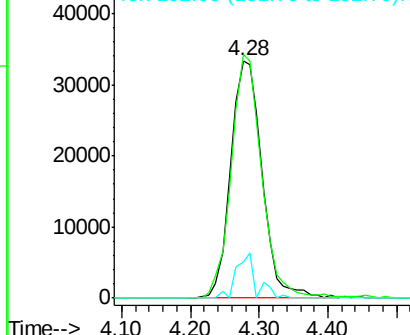
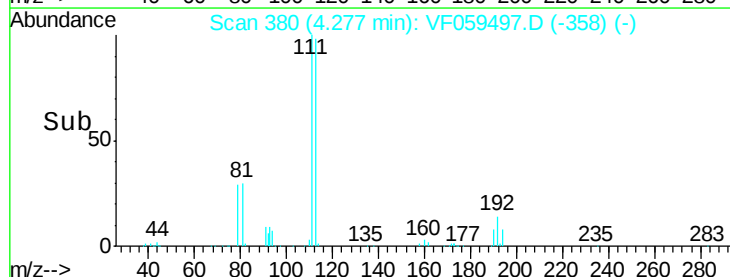
192 15.4 12.0 18.0

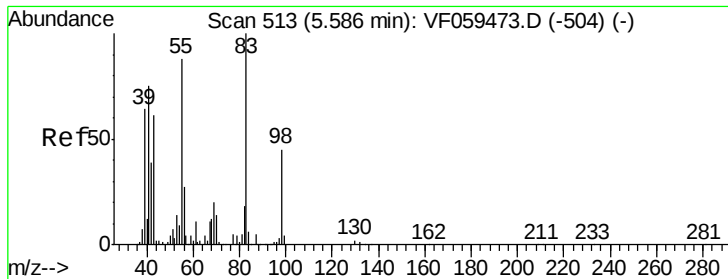


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#39

Methylcyclohexane

Concen: 1.991 ug/l

RT: 5.76 min Scan# 530

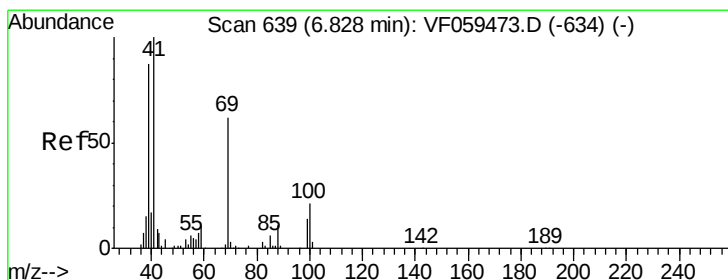
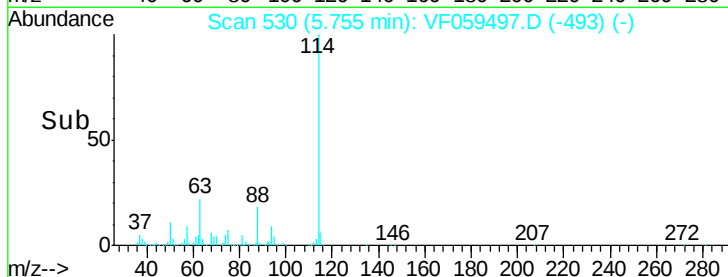
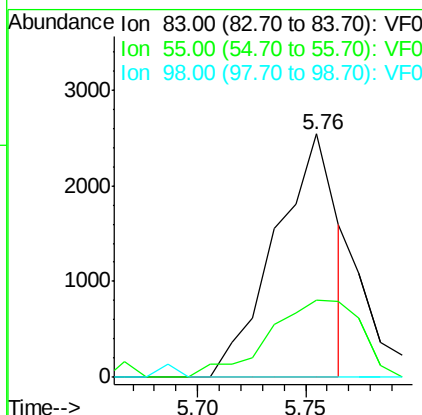
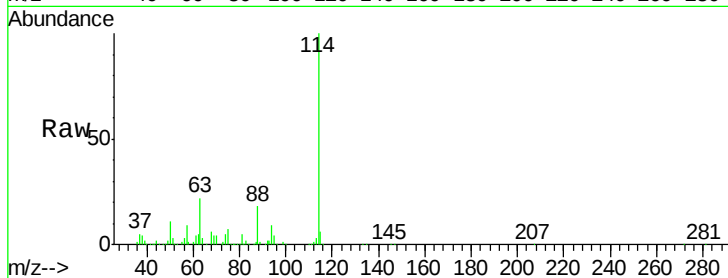
Delta R.T. 0.17 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

Instrument :  
MSVOA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 5018   |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 31.8  | 70.6  | 105.8# |
| 98       | 0.0   | 36.3  | 54.5#  |



#49

1,4-Dioxane

Concen: 9.650 ug/l

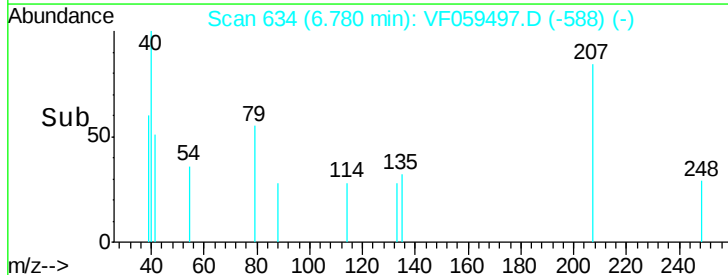
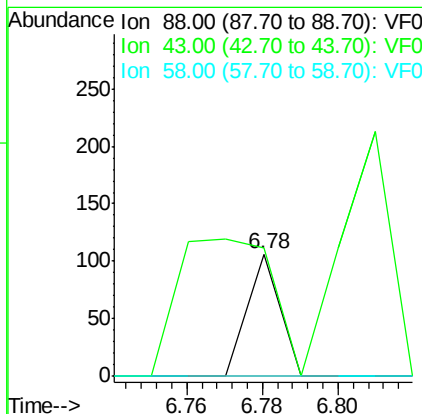
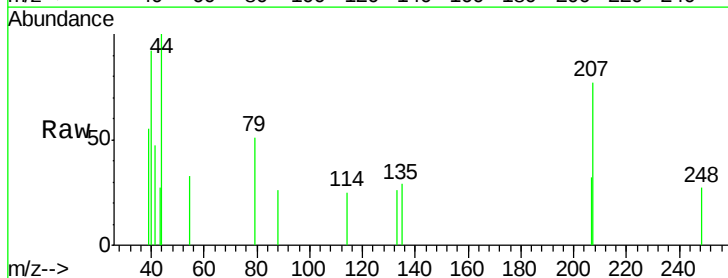
RT: 6.78 min Scan# 634

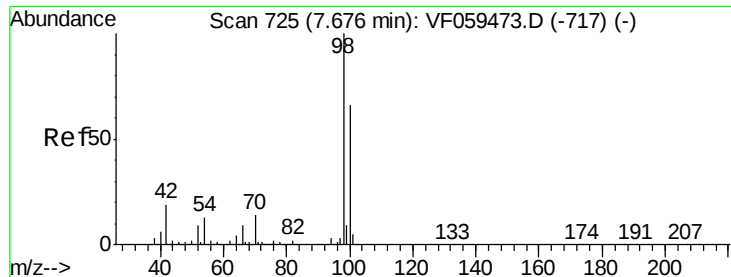
Delta R.T. -0.05 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 63    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 104.7 | 57.3  | 85.9# |
| 58       | 0.0   | 54.6  | 81.8# |





#50

Toluene-d8

Concen: 30.281 ug/l

RT: 7.70 min Scan# 727

Delta R.T. 0.02 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

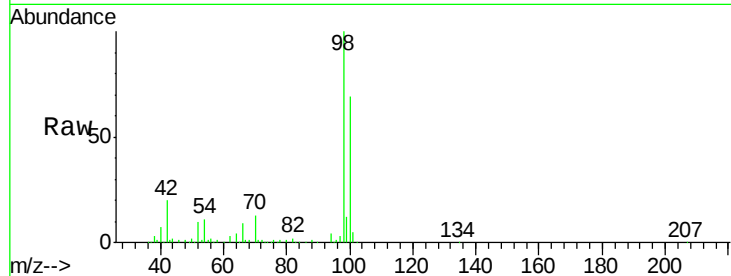
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 98 Resp: 194173

Ion Ratio Lower Upper

98 100

100 68.6 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

80000

60000

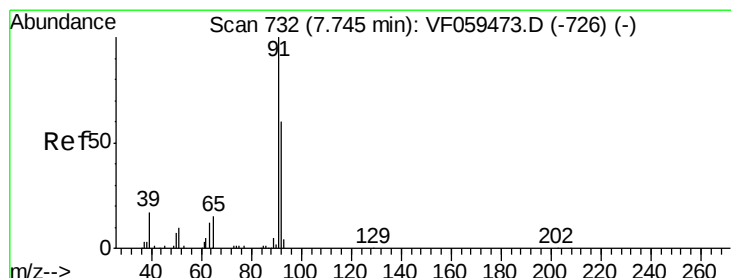
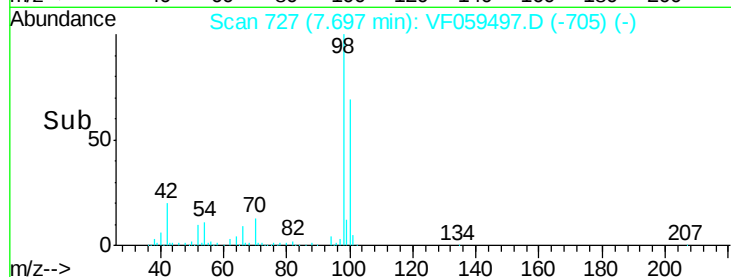
40000

20000

0

Time-->

7.60 7.70 7.80 7.90



#58

2-Chloroethyl Vinyl ether

Concen: 5.091 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.02 min

Lab File: VF059497.D

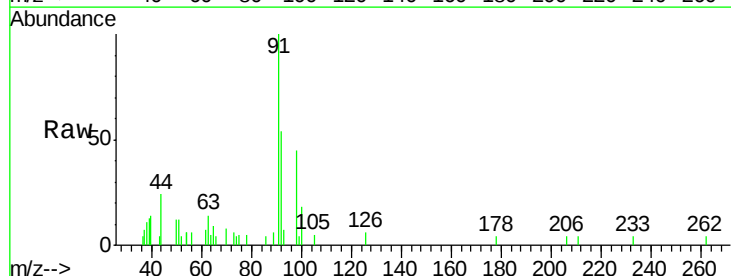
Acq: 10 Jul 2018 21:11

Tgt Ion: 63 Resp: 945

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.77

400

300

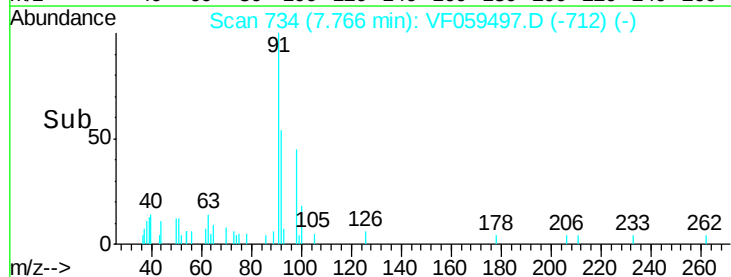
200

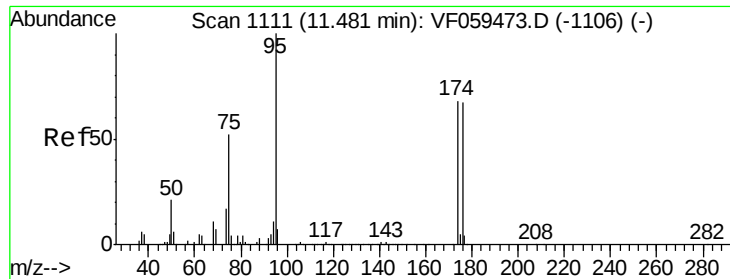
100

0

Time-->

7.70 7.75 7.80





#62

4-Bromofluorobenzene

Concen: 26.924 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

Instrument :

MSVOA\_F

ClientSampleId :

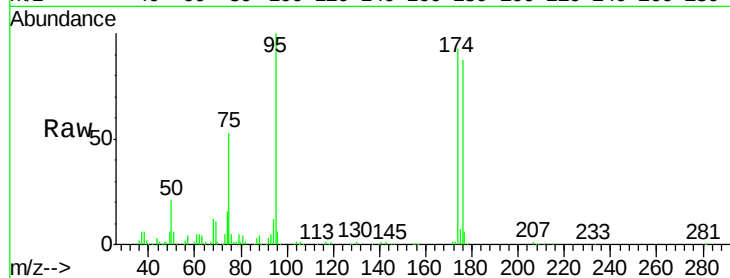
Tot Ion: 95 Resp: 96308

Ion Ratio Lower Upper

95 100

174 92.8 0.0 137.0

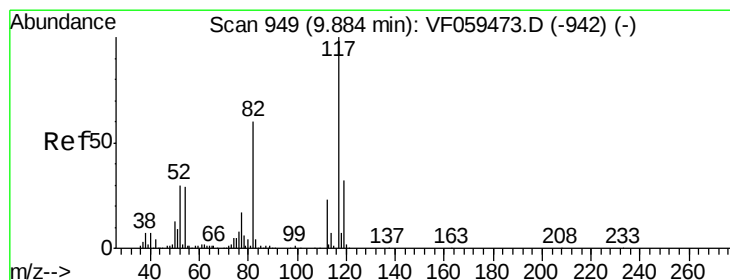
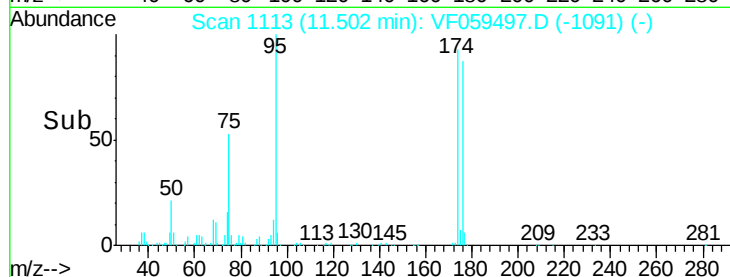
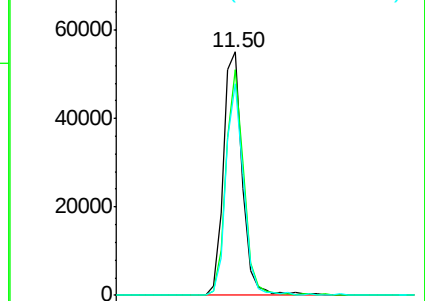
176 87.1 0.0 133.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 951

Delta R.T. 0.02 min

Lab File: VF059497.D

Acq: 10 Jul 2018 21:11

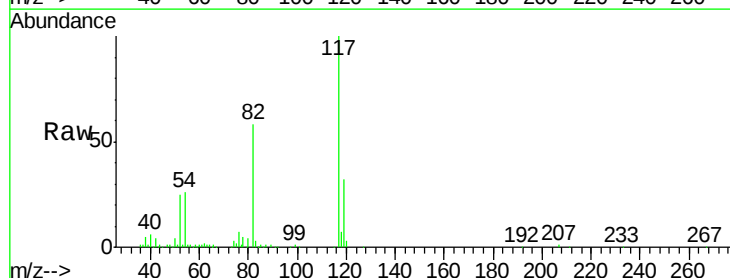
Tgt Ion: 117 Resp: 246486

Ion Ratio Lower Upper

117 100

82 58.3 48.2 72.4

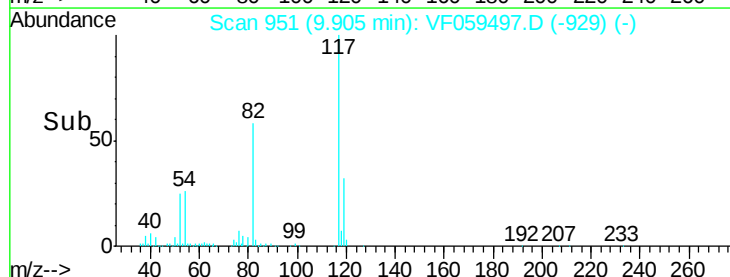
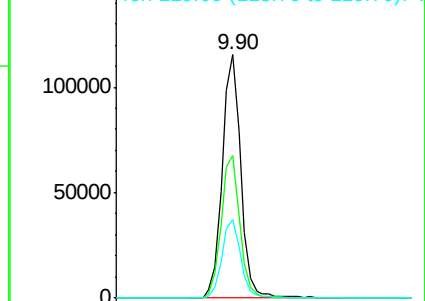
119 32.5 25.7 38.5

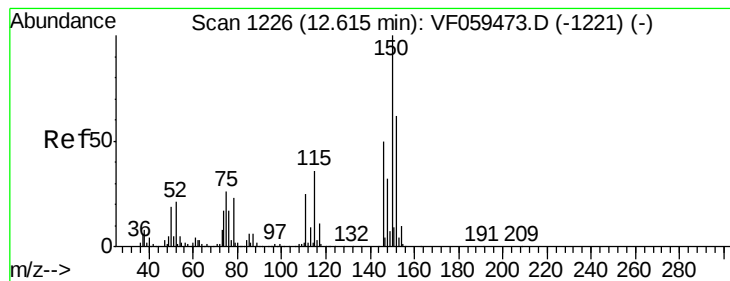


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



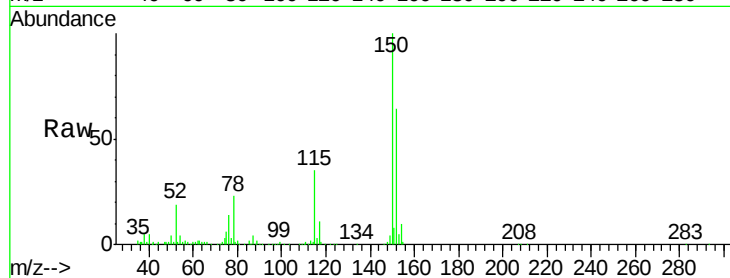


#72

1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.63 min Scan# 1227  
 Delta R.T. 0.01 min  
 Lab File: VF059497.D  
 Acq: 10 Jul 2018 21:11

Instrument :  
 MSVOA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.4  | 28.7  | 86.3  |
| 150     | 157.5 | 0.0   | 323.8 |



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

