

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF082218\  
 Data File : VF060040.D  
 Acq On : 22 Aug 2018 15:18  
 Operator : VA/AP  
 Sample : J4583-01  
 Misc : 7.90g/5mL/MSVOA\_F/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TOD1-SB-01-51.5-52

Quant Time: Aug 23 04:25:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 04:43:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 888      | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 1081     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.94  | 117  | 849      | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 12.65 | 152  | 156      | 50.00 | ug/l  | 0.01     |

|                             |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| System Monitoring Compounds |        |     |          |       |        |       |
| 33) 1,2-Dichloroethane-d4   | 5.01   | 65  | 61       | 5.02  | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 10.04% |       |
| 35) Dibromofluoromethane    | 4.30   | 113 | 135      | 15.90 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 31.80% |       |
| 50) Toluene-d8              | 7.73   | 98  | 1157     | 47.99 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.98% |       |
| 62) 4-Bromofluorobenzene    | 11.49  | 95  | 132      | 10.35 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 20.70% |       |

| Target Compounds              |       |     |     |         |        | Qvalue |
|-------------------------------|-------|-----|-----|---------|--------|--------|
| 3) Chloromethane              | 1.08  | 50  | 259 | 32.863  | ug/l # | 40     |
| 4) Vinyl Chloride             | 0.95  | 62  | 83  | 11.435  | ug/l # | 40     |
| 5) Bromomethane               | 1.19  | 94  | 60  | 10.878  | ug/l # | 1      |
| 6) Chloroethane               | 1.40  | 64  | 812 | 283.787 | ug/l # | 45     |
| 10) Methyl Iodide             | 1.95  | 142 | 79  | 7.799   | ug/l # | 40     |
| 12) 1,1-Dichloroethene        | 1.75  | 96  | 86  | 15.235  | ug/l # | 1      |
| 14) Allyl chloride            | 2.17  | 41  | 224 | 22.343  | ug/l # | 1      |
| 15) Acrylonitrile             | 3.04  | 53  | 79  | 61.917  | ug/l # | 11     |
| 16) Acetone                   | 2.33  | 43  | 62  | 19.411  | ug/l # | 63     |
| 18) Methyl Acetate            | 2.48  | 43  | 66  | 8.702   | ug/l # | 60     |
| 23) Vinyl Acetate             | 3.35  | 43  | 126 | 10.595  | ug/l # | 80     |
| 24) 1,1-Dichloroethane        | 2.94  | 63  | 70  | 5.048   | ug/l # | 89     |
| 25) 2-Butanone                | 4.36  | 43  | 72  | 17.354  | ug/l # | 58     |
| 27) cis-1,2-Dichloroethene    | 3.48  | 96  | 64  | 7.151   | ug/l   | 1      |
| 29) Tetrahydrofuran           | 4.29  | 42  | 105 | 67.030  | ug/l # | 37     |
| 37) Ethyl Acetate             | 4.27  | 43  | 65  | 10.699  | ug/l # | 1      |
| 43) Isopropyl Acetate         | 7.10  | 43  | 65  | 8.501   | ug/l # | 45     |
| 48) Methyl methacrylate       | 6.90  | 41  | 74  | 14.625  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone      | 8.41  | 43  | 90  | 13.630  | ug/l # | 39     |
| 54) cis-1,3-Dichloropropene   | 7.56  | 75  | 66  | 5.497   | ug/l # | 24     |
| 56) Ethyl methacrylate        | 8.72  | 69  | 63  | 8.692   | ug/l # | 31     |
| 57) 1,3-Dichloropropane       | 9.01  | 76  | 63  | 5.986   | ug/l # | 1      |
| 59) 2-Hexanone                | 9.65  | 43  | 60  | 11.227  | ug/l # | 30     |
| 67) Ethyl Benzene             | 9.96  | 91  | 89  | 3.217   | ug/l # | 45     |
| 70) Styrene                   | 11.00 | 104 | 69  | 4.150   | ug/l # | 29     |
| 74) N-amyl acetate            | 11.47 | 43  | 643 | 220.300 | ug/l # | 27     |
| 75) 1,1,2,2-Tetrachloroethane | 11.78 | 83  | 184 | 89.723  | ug/l # | 26     |
| 77) Bromobenzene              | 11.56 | 156 | 61  | 23.886  | ug/l # | 1      |
| 78) n-propylbenzene           | 11.70 | 91  | 83  | 7.161   | ug/l # | 54     |
| 79) 2-Chlorotoluene           | 11.80 | 91  | 171 | 25.091  | ug/l # | 42     |
| 80) 1,3,5-Trimethylbenzene    | 11.91 | 105 | 89  | 10.879  | ug/l # | 29     |
| 82) 4-Chlorotoluene           | 12.04 | 91  | 75  | 10.136  | ug/l # | 41     |
| 83) tert-Butylbenzene         | 12.21 | 119 | 73  | 9.149   | ug/l # | 32     |
| 84) 1,2,4-Trimethylbenzene    | 12.30 | 105 | 86  | 9.888   | ug/l # | 30     |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF082218\  
Data File : VF060040.D  
Acq On : 22 Aug 2018 15:18  
Operator : VA/AP  
Sample : J4583-01  
Misc : 7.90g/5mL/MSVOA\_F/SOIL  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
TOD1-SB-01-51.5-52

Quant Time: Aug 23 04:25:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 04:43:43 2018  
Response via : Initial Calibration

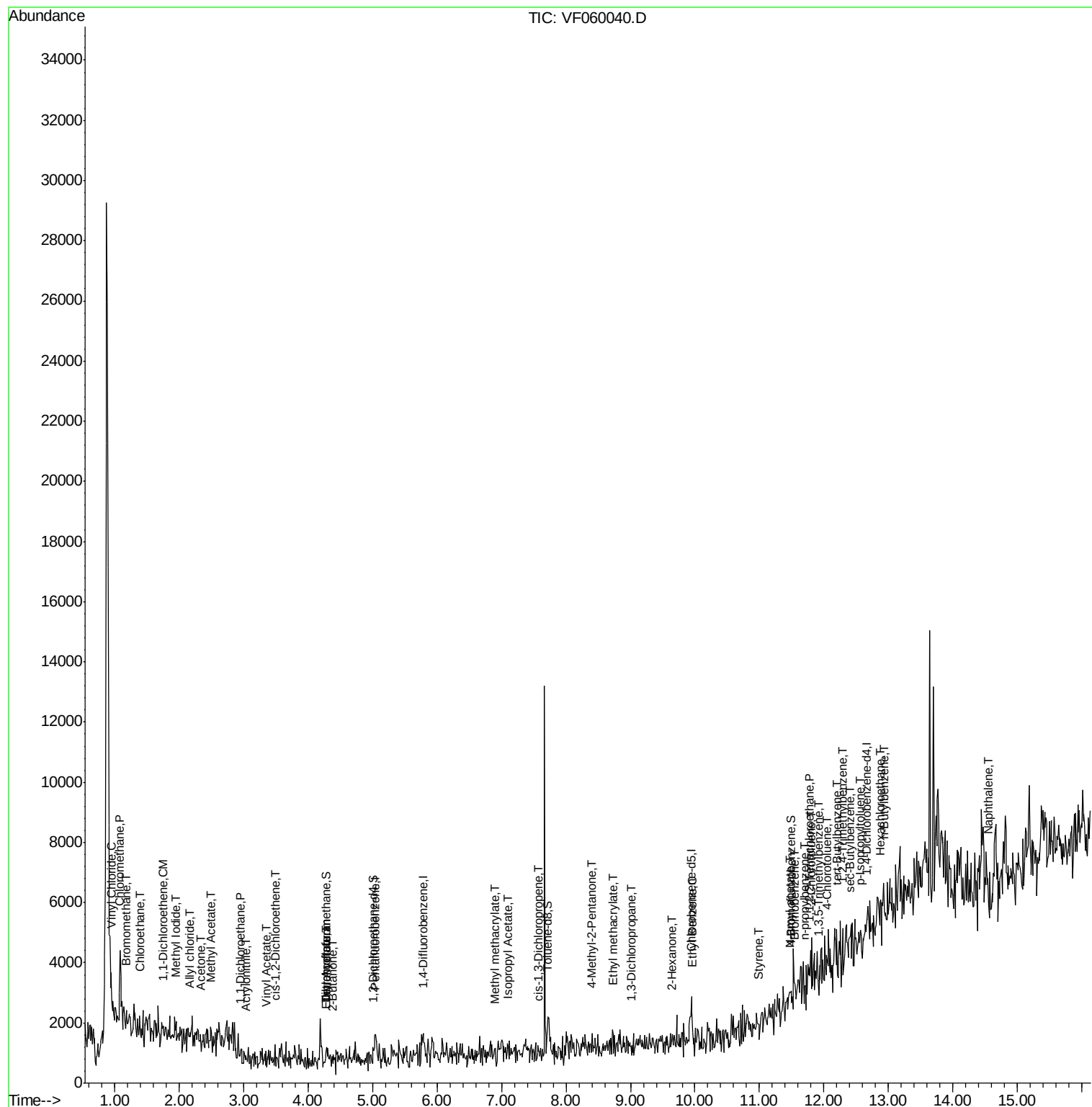
| Internal Standards     | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|------------------------|-------|------|----------|--------|--------|----------|
| 85) sec-Butylbenzene   | 12.39 | 105  | 60       | 5.401  | ug/l # | 58       |
| 86) p-Isopropyltoluene | 12.57 | 119  | 88       | 9.549  | ug/l # | 49       |
| 89) n-Butylbenzene     | 12.92 | 91   | 202      | 22.561 | ug/l # | 30       |
| 90) Hexachloroethane   | 12.89 | 117  | 63       | 30.422 | ug/l # | 11       |
| 95) Naphthalene        | 14.56 | 128  | 157      | 28.109 | ug/l # | 69       |

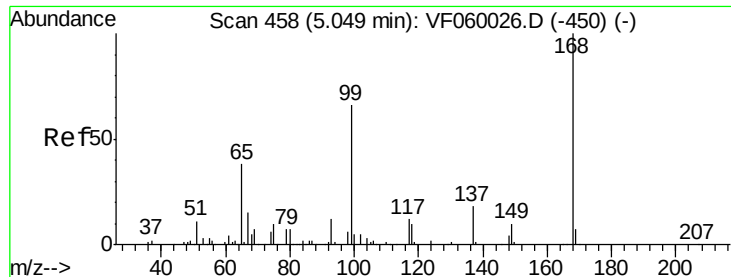
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF082218\  
Data File : VF060040.D  
Acq On : 22 Aug 2018 15:18  
Operator : VA/AP  
Sample : J4583-01  
Misc : 7.90g/5mL/MSVOA\_F/SOIL  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
TOD1-SB-01-51.5-52

Quant Time: Aug 23 04:25:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 04:43:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

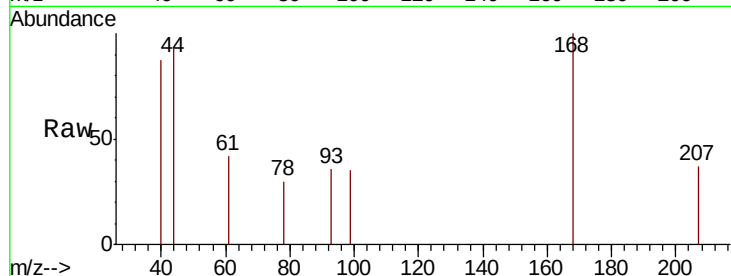
TOD1-SB-01-51.5-52

Tgt Ion:168 Resp: 888

Ion Ratio Lower Upper

168 100

99 34.7 52.6 79.0#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

400

300

200

100

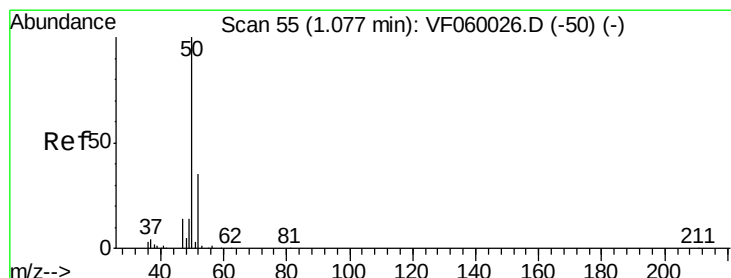
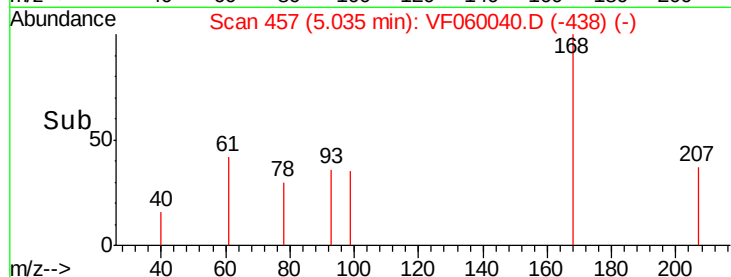
0

5.00

5.05

5.10

Time-->



#3

Chloromethane

Concen: 32.863 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060040.D

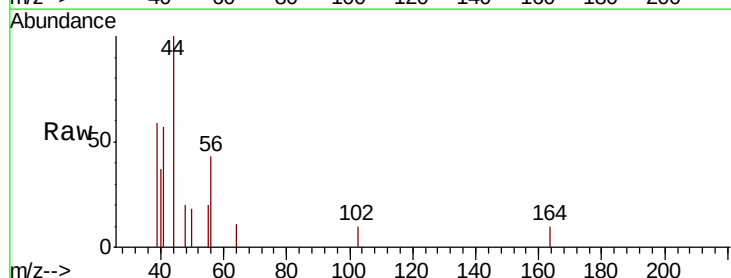
Acq: 22 Aug 2018 15:18

Tgt Ion: 50 Resp: 259

Ion Ratio Lower Upper

50 100

52 0.0 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

200

150

100

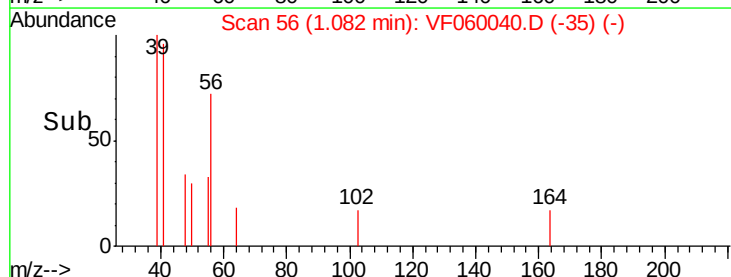
50

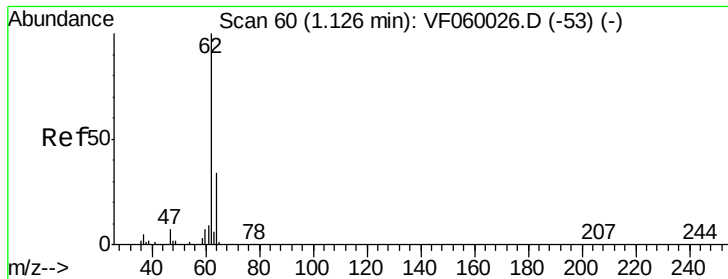
0

1.05

1.10

Time-->





#4

Vinyl Chloride

Concen: 11.435 ug/l

RT: 0.95 min Scan# 43

Delta R.T. -0.17 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

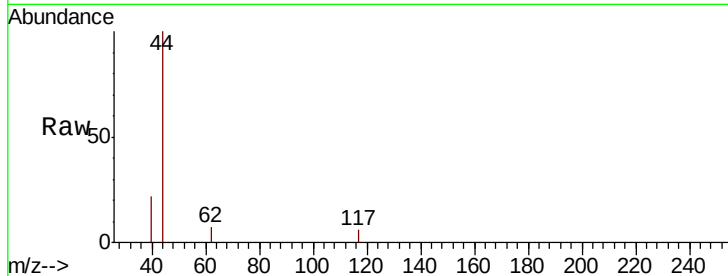
TOD1-SB-01-51.5-52

Tgt Ion: 62 Resp: 83

Ion Ratio Lower Upper

62 100

64 0.0 27.4 41.2#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

0.95

150

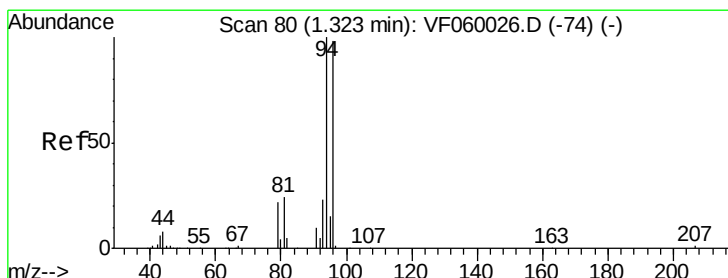
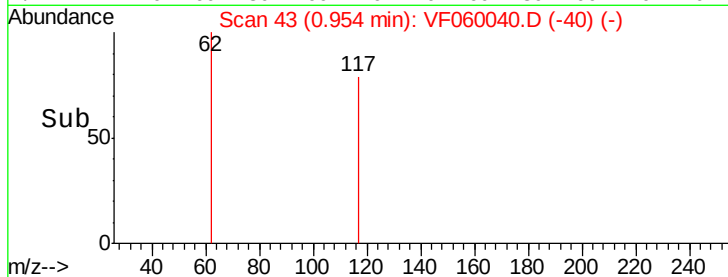
100

50

0

0.94 0.96 0.98

Time-->



#5

Bromomethane

Concen: 10.878 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.13 min

Lab File: VF060040.D

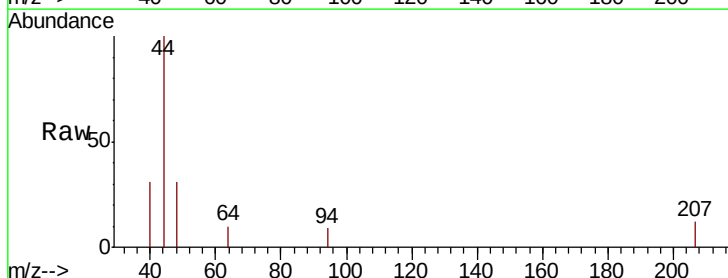
Acq: 22 Aug 2018 15:18

Tgt Ion: 94 Resp: 60

Ion Ratio Lower Upper

94 100

96 0.0 78.6 118.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.19

120

100

80

60

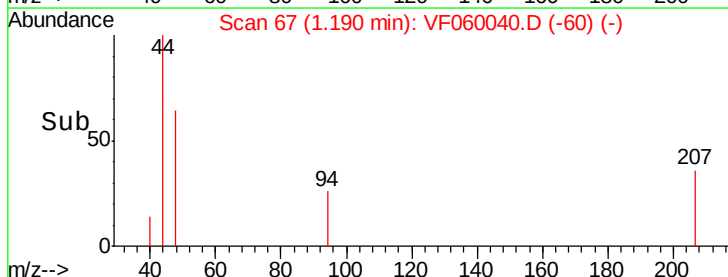
40

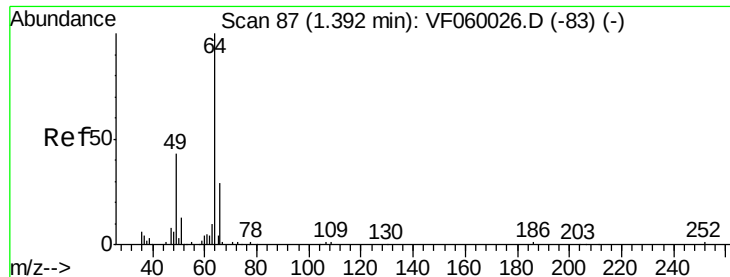
20

0

1.16 1.18 1.20 1.22

Time-->





#6

Chloroethane

Concen: 283.787 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

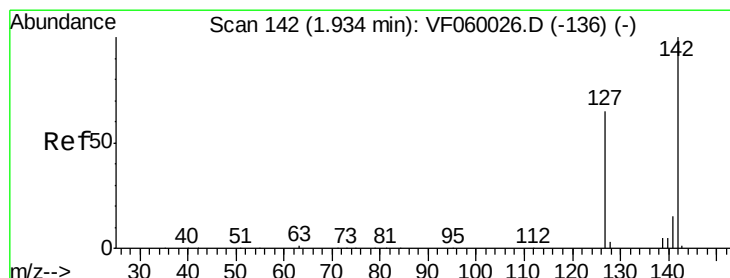
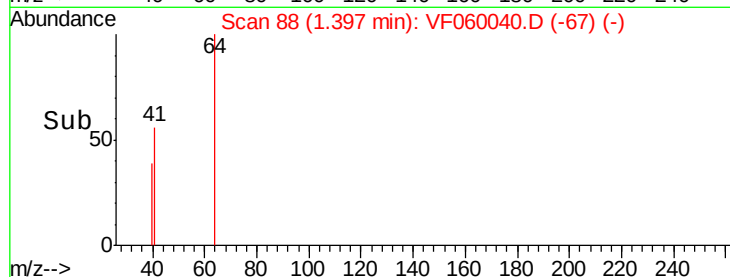
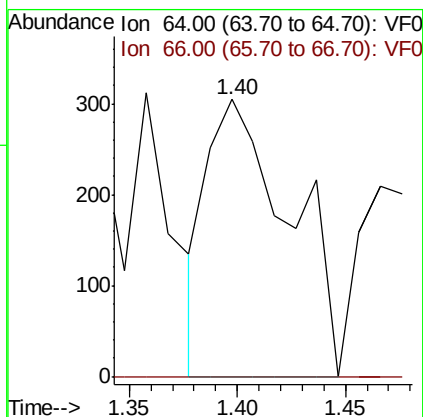
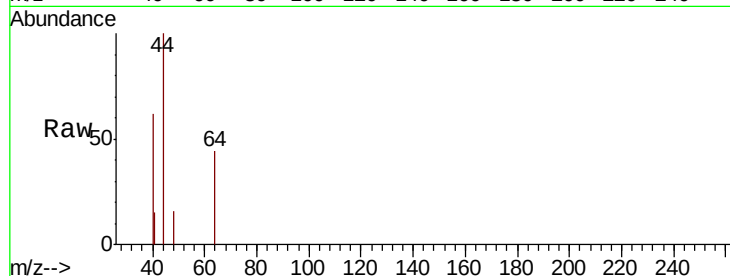
TOD1-SB-01-51.5-52

Tgt Ion: 64 Resp: 812

Ion Ratio Lower Upper

64 100

66 0.0 24.1 36.1#



#10

Methyl Iodide

Concen: 7.799 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

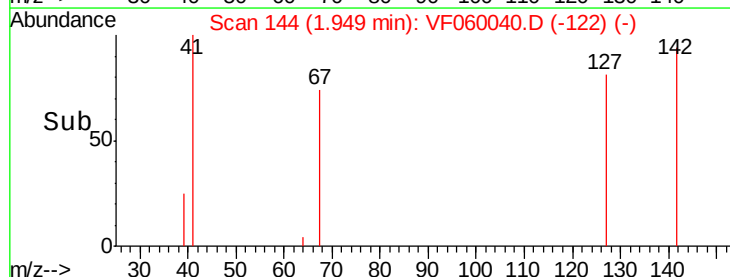
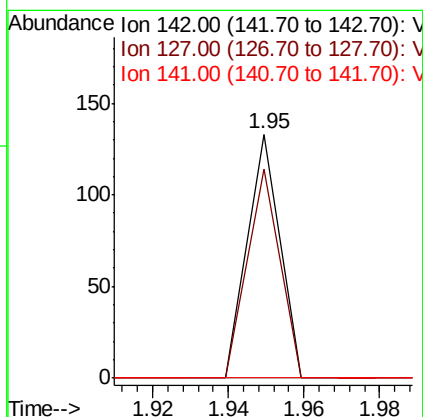
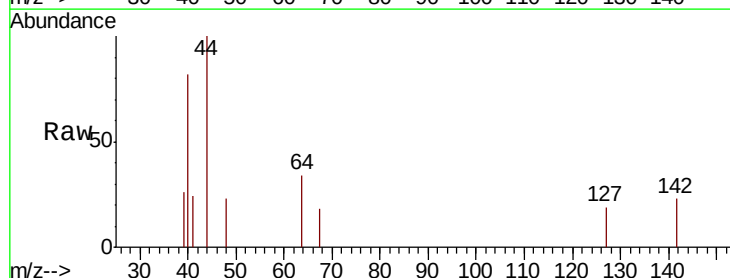
Tgt Ion: 142 Resp: 79

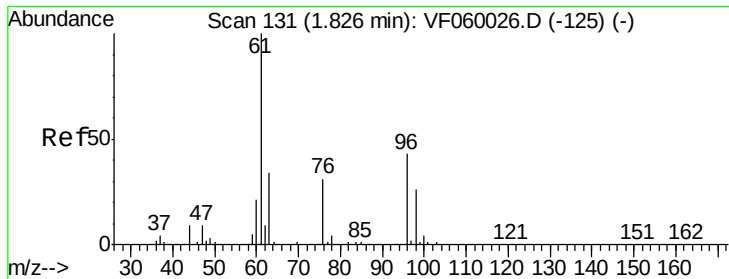
Ion Ratio Lower Upper

142 100

127 85.7 51.8 77.6#

141 100.0 11.9 17.9#

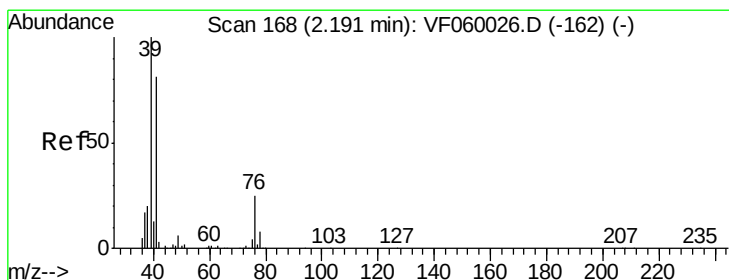
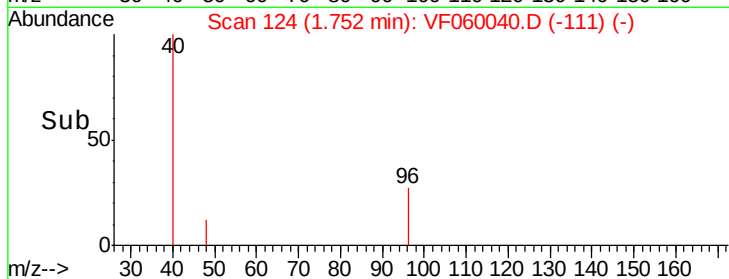
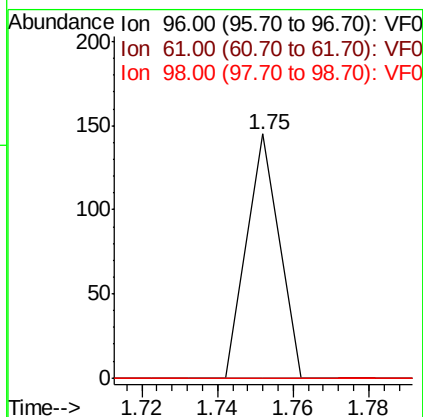
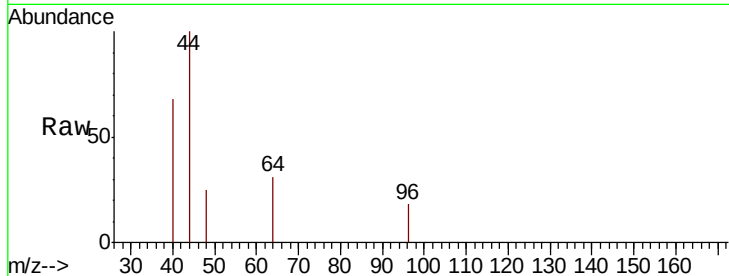




#12  
 1,1-Dichloroethene  
 Concen: 15.235 ug/l  
 RT: 1.75 min Scan# 124  
 Delta R.T. -0.07 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

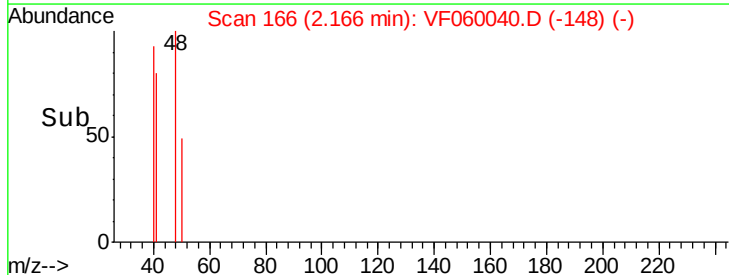
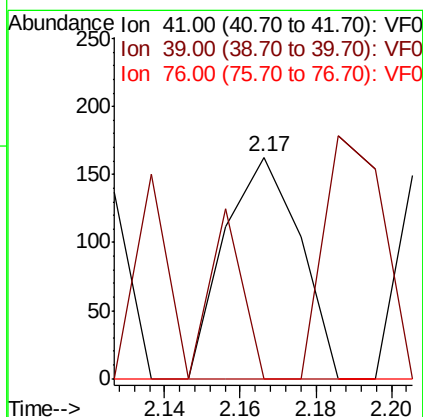
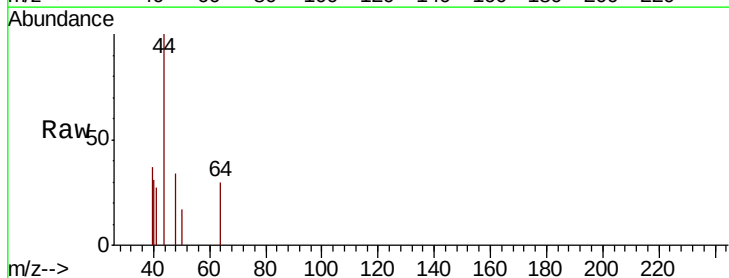
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TOD1-SB-01-51.5-52

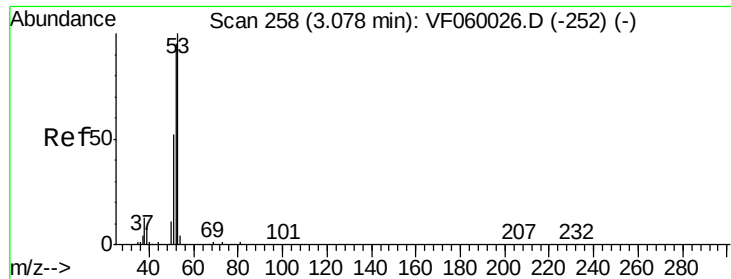
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 0.0   | 185.0 | 277.6# |
| 98      | 0.0   | 47.8  | 71.8#  |



#14  
 Allyl chloride  
 Concen: 22.343 ug/l  
 RT: 2.17 min Scan# 166  
 Delta R.T. -0.02 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 41      | 100   |       |        |
| 39      | 0.0   | 99.3  | 148.9# |
| 76      | 0.0   | 24.3  | 36.5#  |





#15

Acrylonitrile

Concen: 61.917 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.03 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

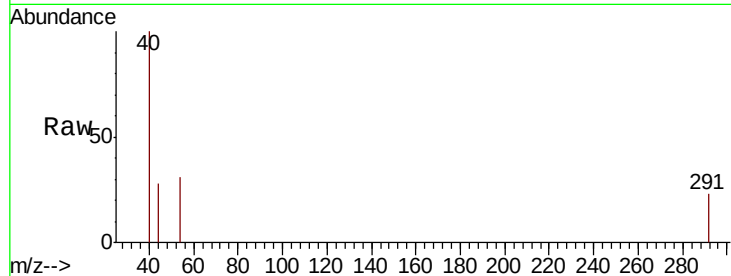
Tgt Ion: 53 Resp: 79

Ion Ratio Lower Upper

53 100

52 0.0 75.8 113.8#

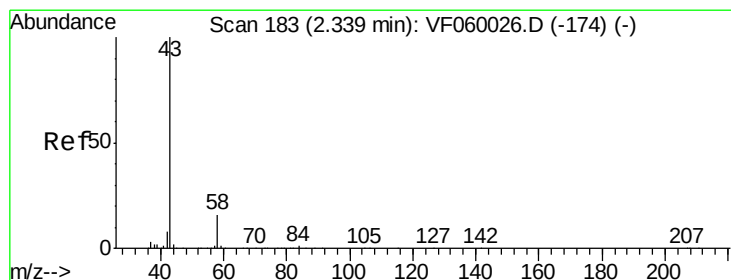
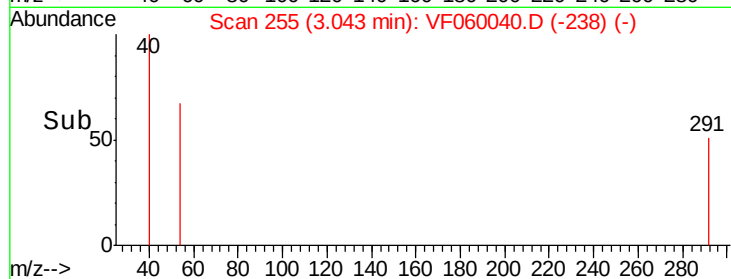
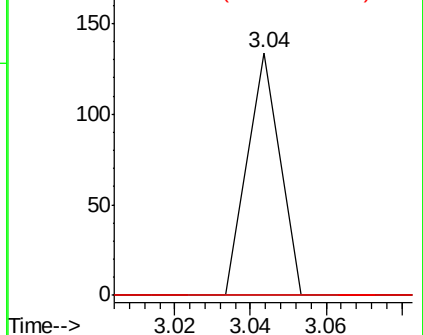
51 0.0 42.1 63.1#



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: 19.411 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF060040.D

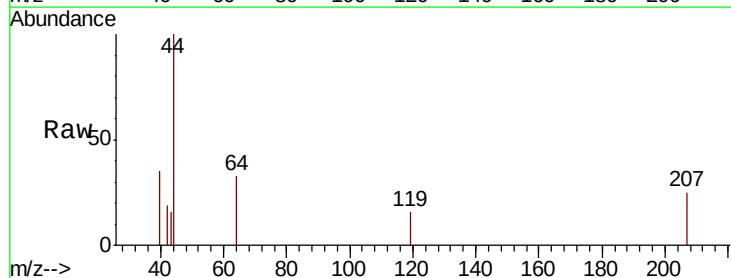
Acq: 22 Aug 2018 15:18

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

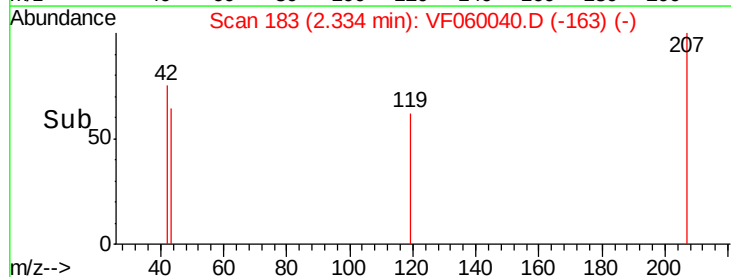
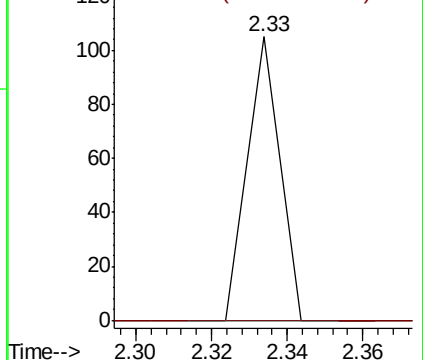
43 100

58 0.0 12.6 19.0#

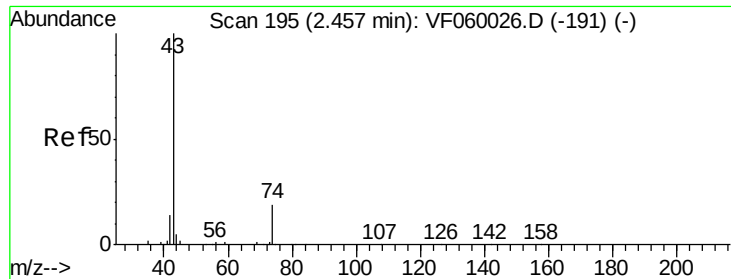


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



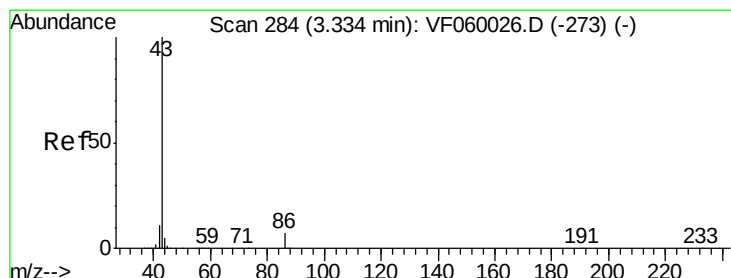
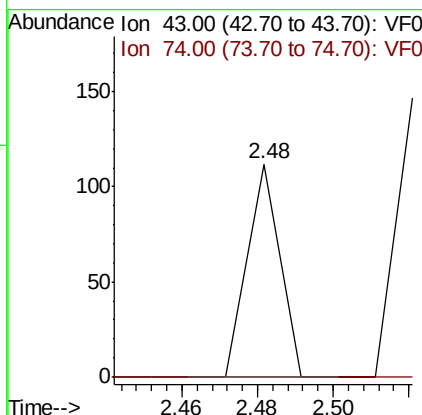
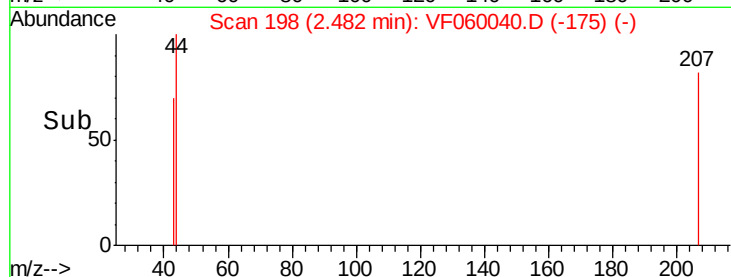
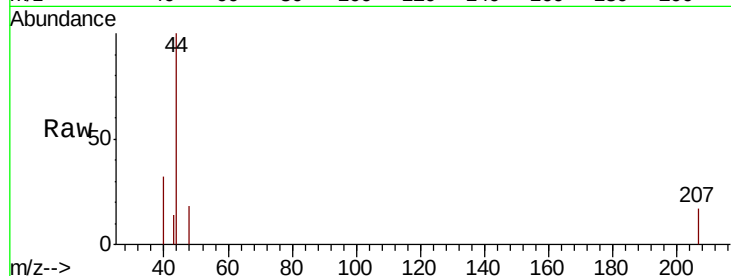




#18  
Methyl Acetate  
Concen: 8.702 ug/l  
RT: 2.48 min Scan# 198  
Delta R.T. 0.03 min  
Lab File: VF060040.D  
Acq: 22 Aug 2018 15:18

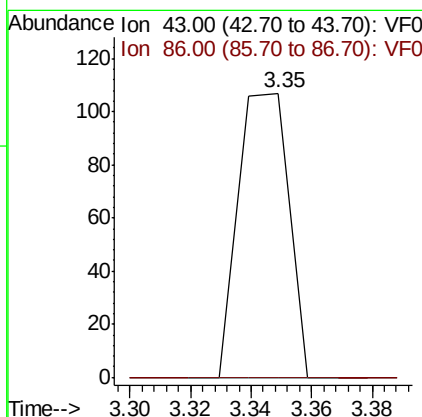
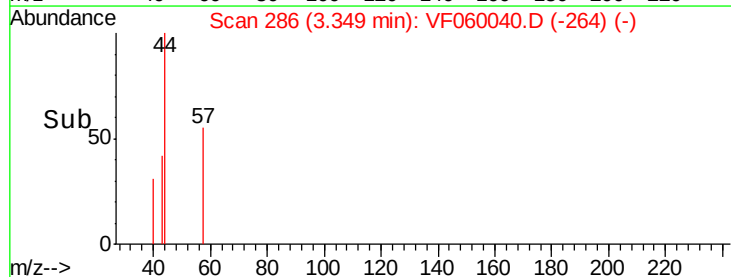
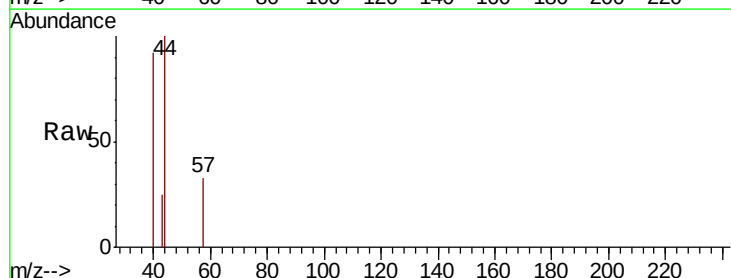
Instrument :  
MSVOA\_F  
ClientSampleId :  
TOD1-SB-01-51.5-52

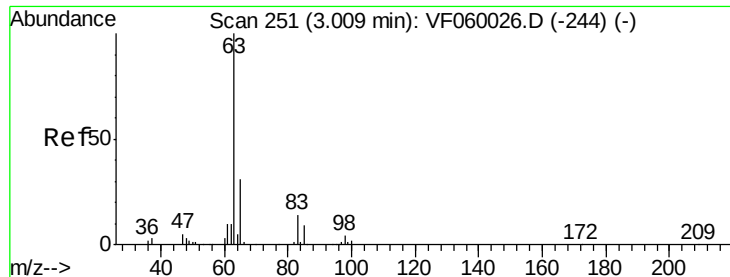
Tgt Ion: 43 Resp: 66  
Ion Ratio Lower Upper  
43 100  
74 0.0 13.8 20.6#



#23  
Vinyl Acetate  
Concen: 10.595 ug/l  
RT: 3.35 min Scan# 286  
Delta R.T. 0.01 min  
Lab File: VF060040.D  
Acq: 22 Aug 2018 15:18

Tgt Ion: 43 Resp: 126  
Ion Ratio Lower Upper  
43 100  
86 0.0 5.6 8.4#





#24

1,1-Dichloroethane

Concen: 5.048 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.06 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

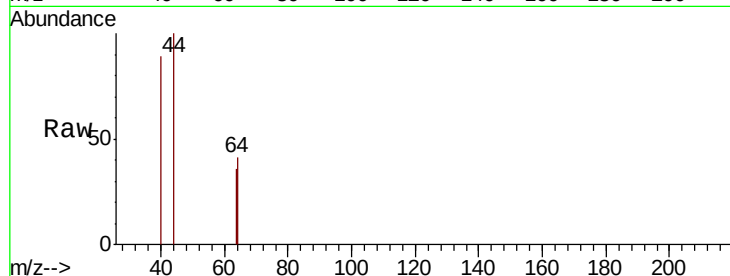
Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

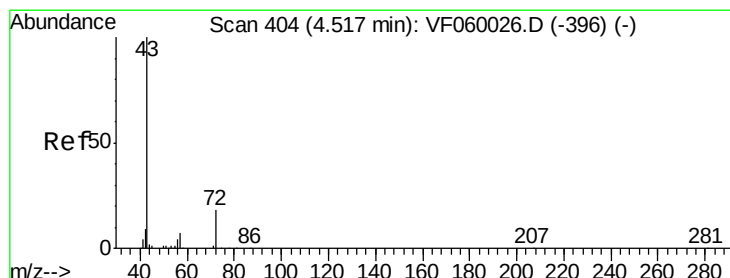
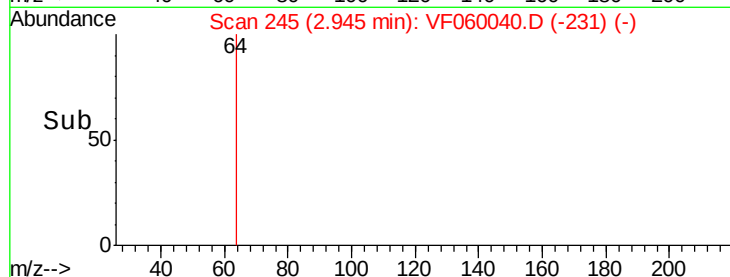
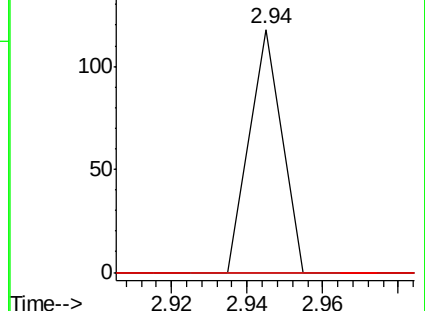
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 70    |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 2.1   | 6.5#  |
| 100      | 0.0   | 1.1   | 3.3#  |



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 17.354 ug/l

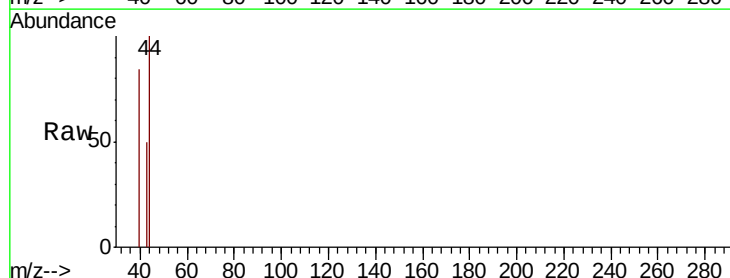
RT: 4.36 min Scan# 389

Delta R.T. -0.15 min

Lab File: VF060040.D

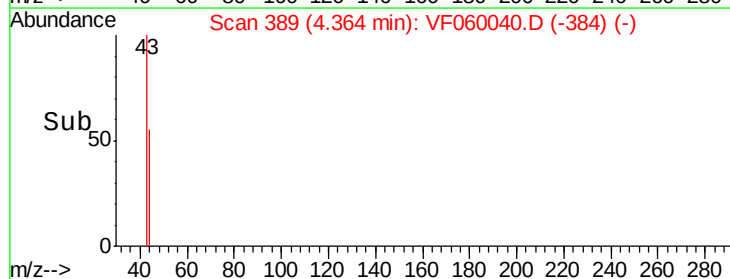
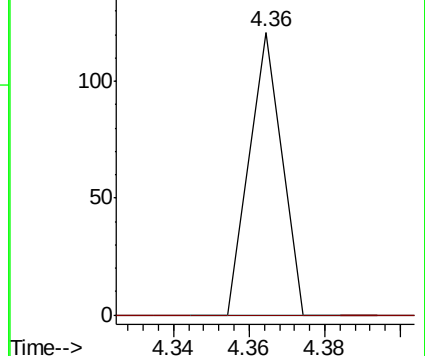
Acq: 22 Aug 2018 15:18

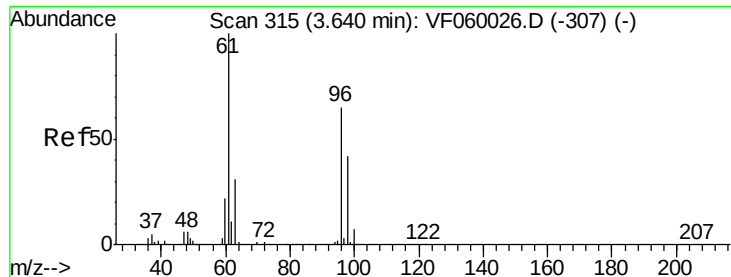
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 72    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 15.0  | 22.6# |



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#27

cis-1,2-Dichloroethene

Concen: 7.151 ug/l

RT: 3.48 min Scan# 299

Delta R.T. -0.16 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

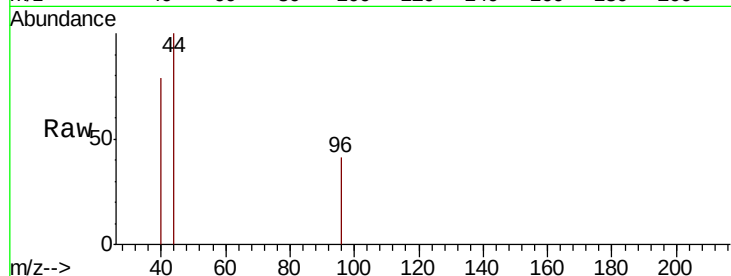
Tgt Ion: 96 Resp: 64

Ion Ratio Lower Upper

96 100

61 0.0 0.0 307.6

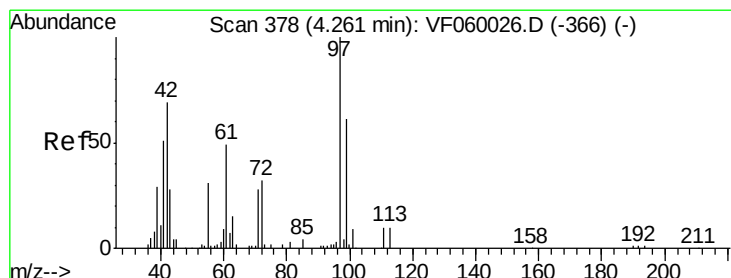
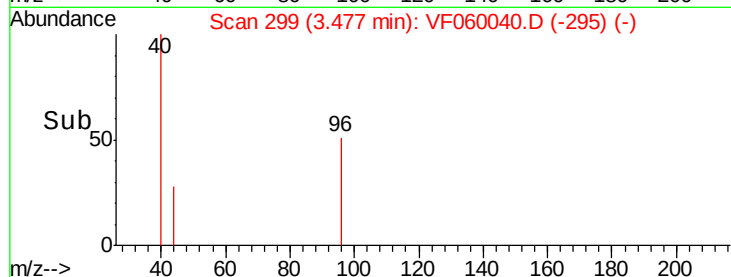
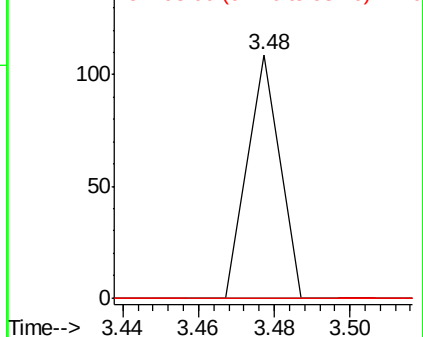
98 0.0 0.0 128.4



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#29

Tetrahydrofuran

Concen: 67.030 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

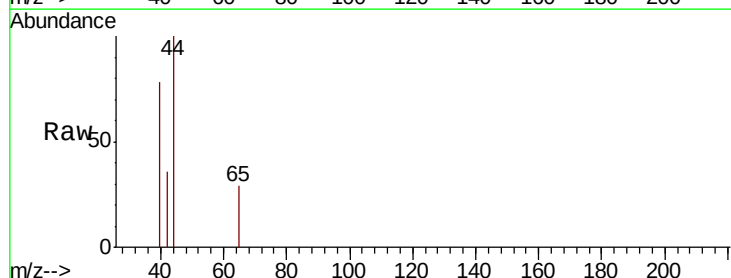
Tgt Ion: 42 Resp: 105

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

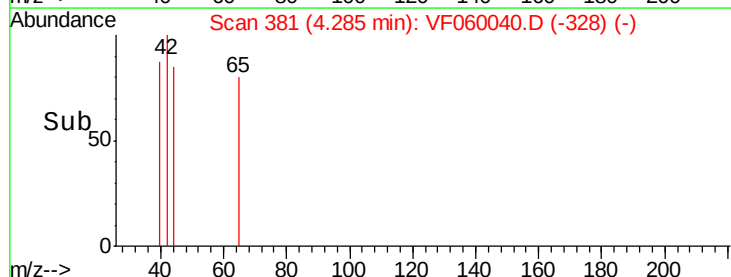
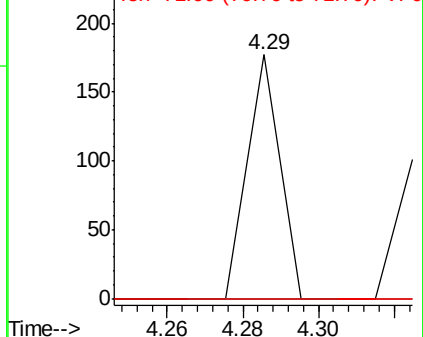
71 0.0 29.7 44.5#

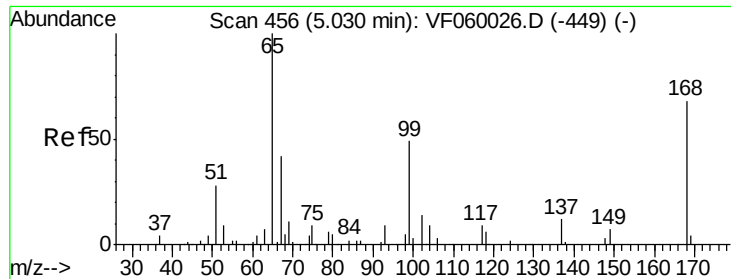


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

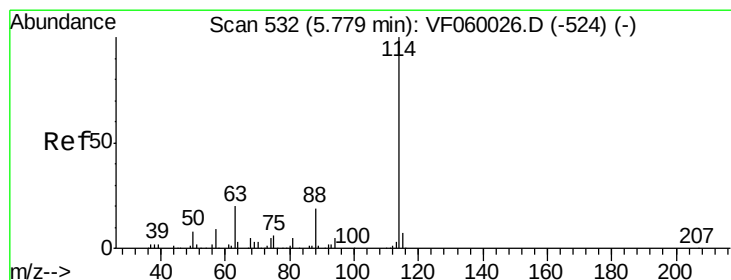
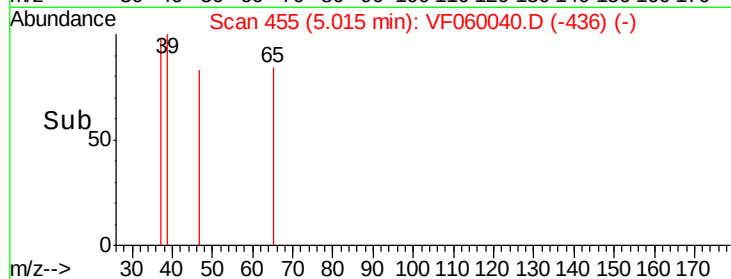
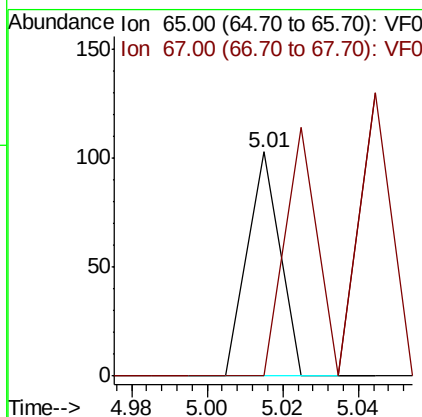
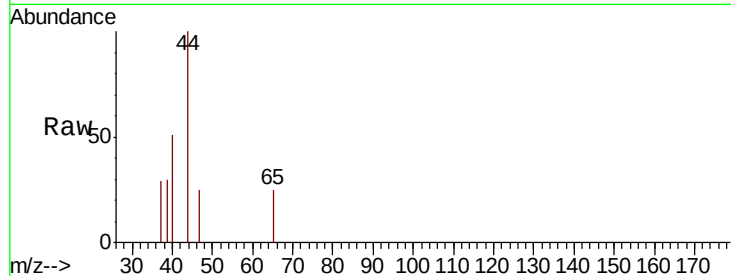




#33  
 1,2-Dichloroethane-d4  
 Concen: 5.019 ug/l  
 RT: 5.01 min Scan# 455  
 Delta R.T. -0.01 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

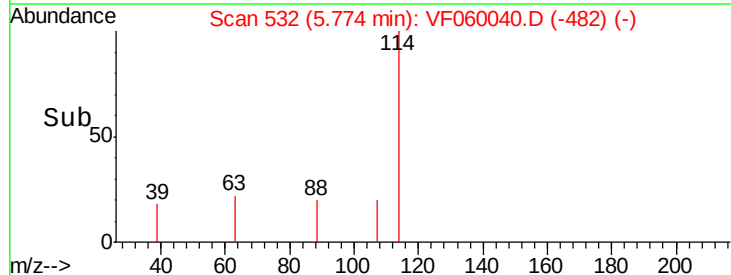
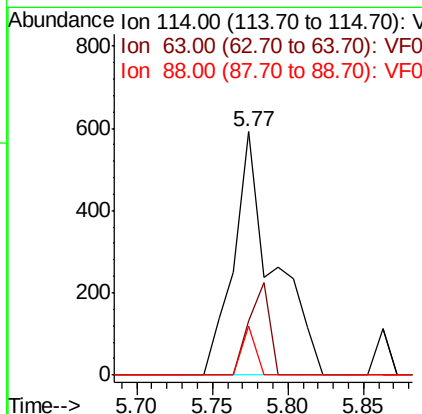
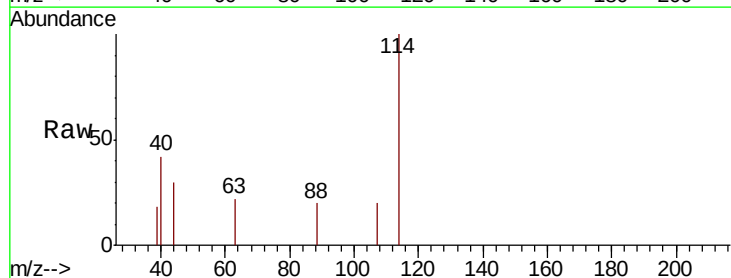
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TOD1-SB-01-51.5-52

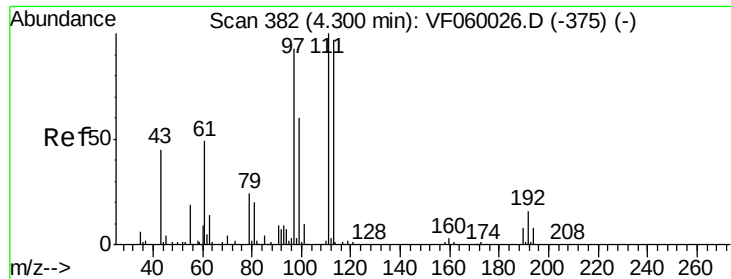
Tgt Ion: 65 Resp: 61  
 Ion Ratio Lower Upper  
 65 100  
 67 0.0 0.0 92.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.77 min Scan# 532  
 Delta R.T. -0.00 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

Tgt Ion: 114 Resp: 1081  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 40.4  
 88 19.9 0.0 38.6





#35

Dibromofluoromethane

Concen: 15.904 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

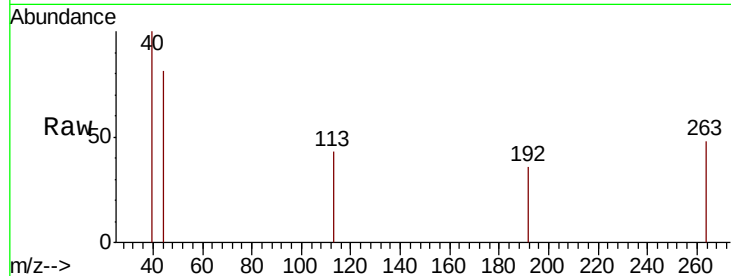
Tgt Ion:113 Resp: 135

Ion Ratio Lower Upper

113 100

111 0.0 82.7 124.1#

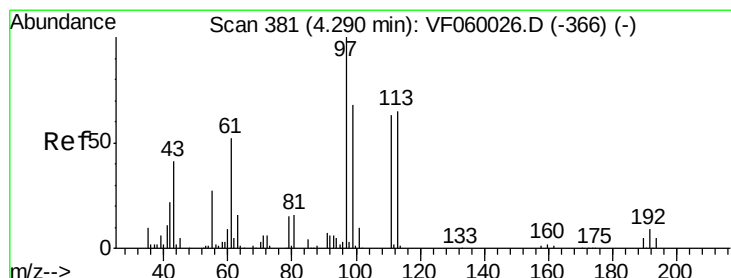
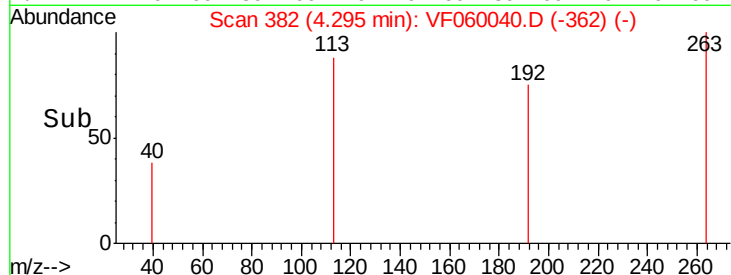
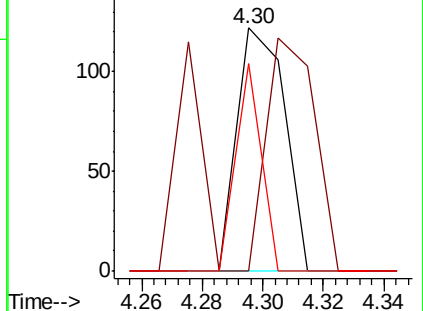
192 85.2 13.0 19.4#



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



#37

Ethyl Acetate

Concen: 10.699 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.02 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

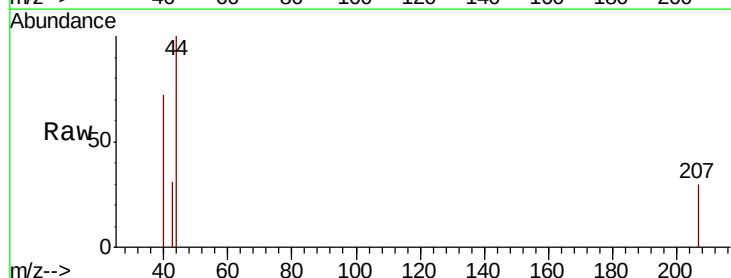
Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

61 0.0 101.5 152.3#

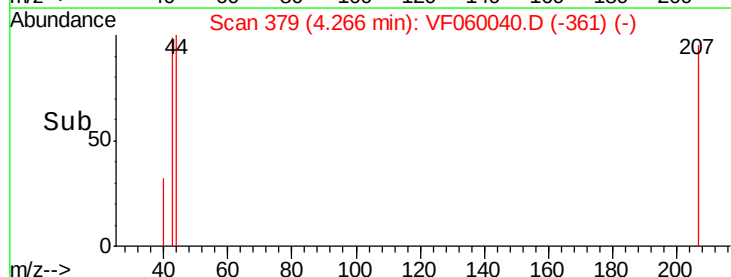
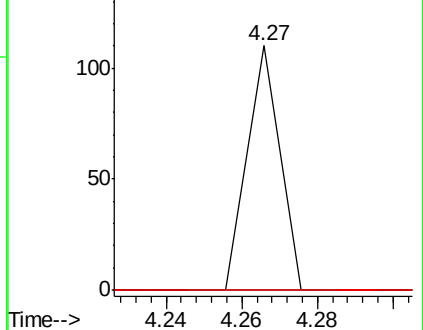
70 0.0 6.4 9.6#

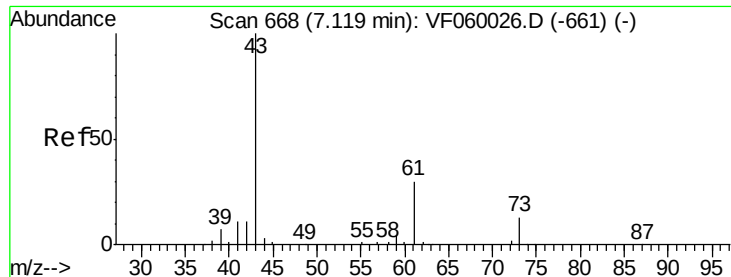


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#43

Isopropyl Acetate

Concen: 8.501 ug/l

RT: 7.10 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

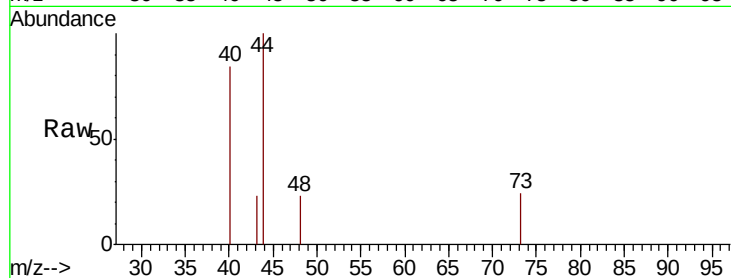
Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.6#

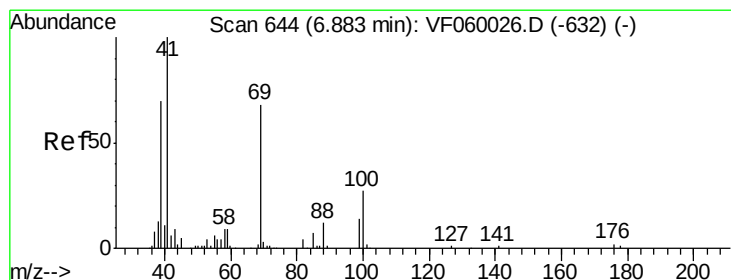
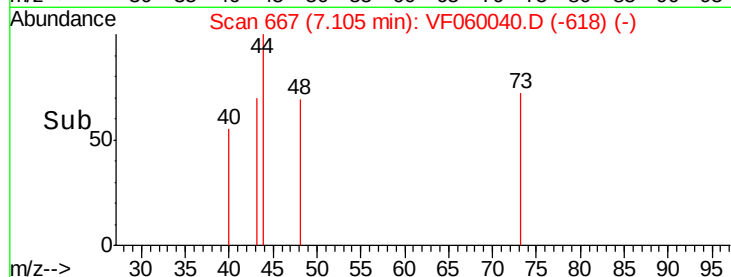
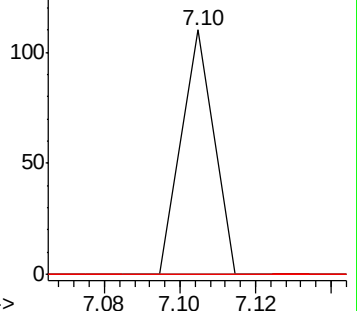
87 0.0 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 14.625 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

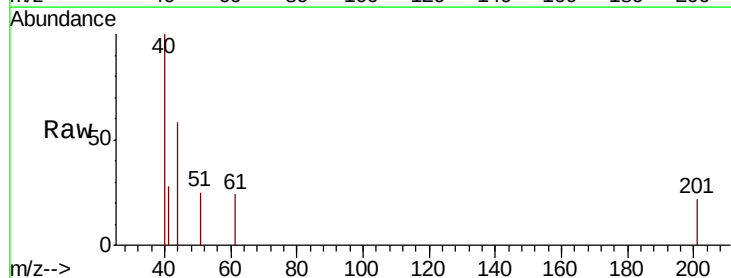
Tgt Ion: 41 Resp: 74

Ion Ratio Lower Upper

41 100

69 0.0 54.6 81.8#

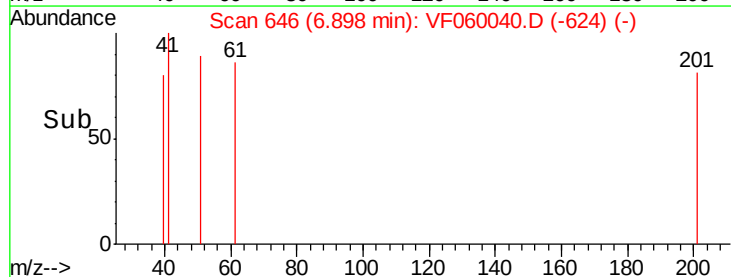
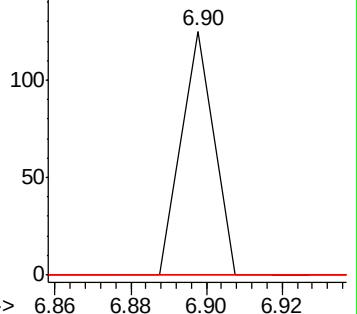
39 0.0 56.5 84.7#

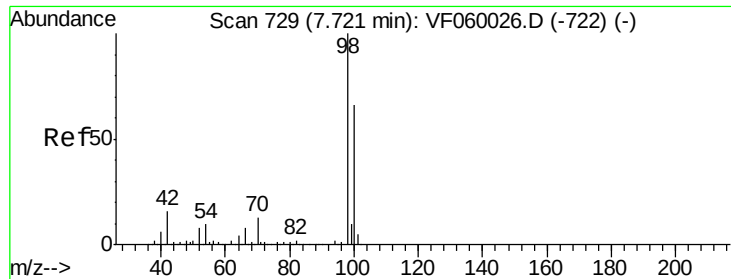


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

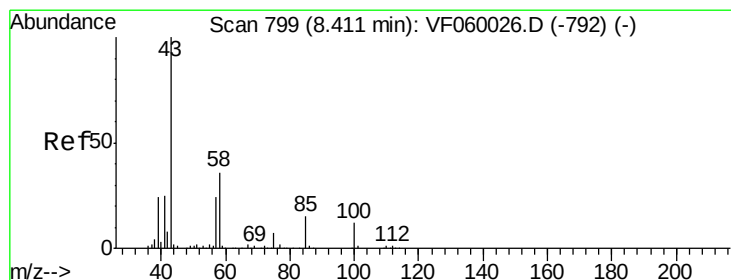
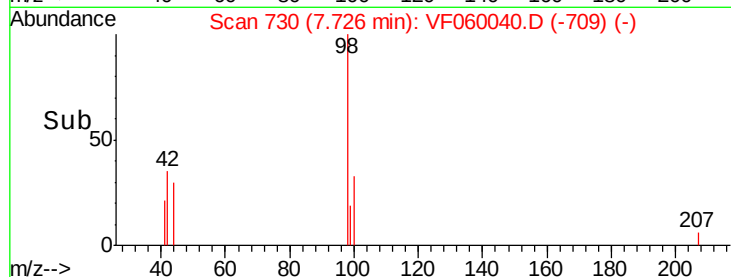
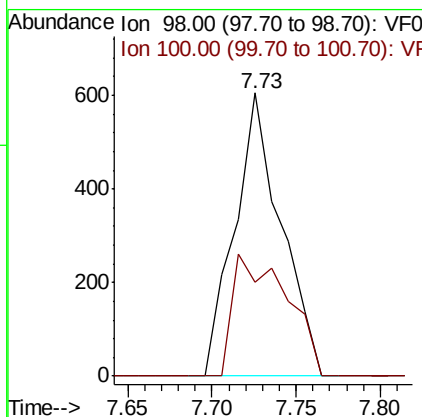
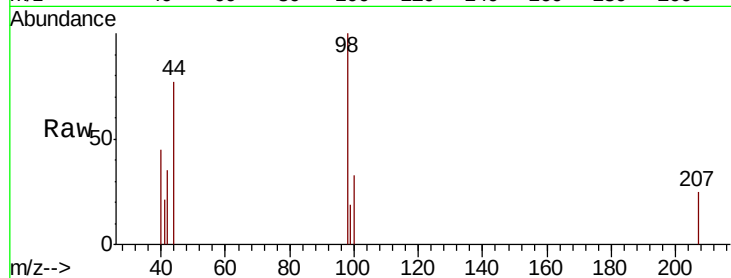




#50  
Toluene-d8  
Concen: 47.993 ug/l  
RT: 7.73 min Scan# 730  
Delta R.T. 0.00 min  
Lab File: VF060040.D  
Acq: 22 Aug 2018 15:18

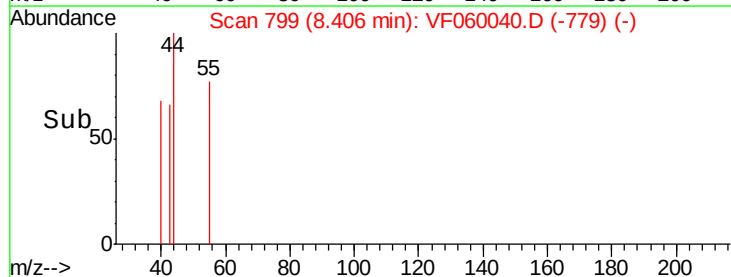
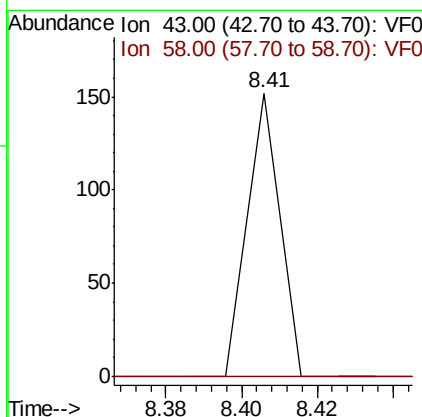
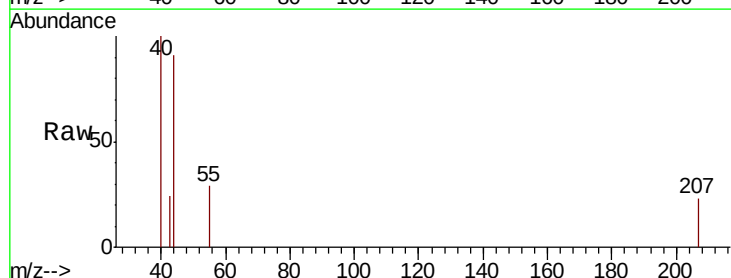
Instrument :  
MSVOA\_F  
ClientSampleId :  
TOD1-SB-01-51.5-52

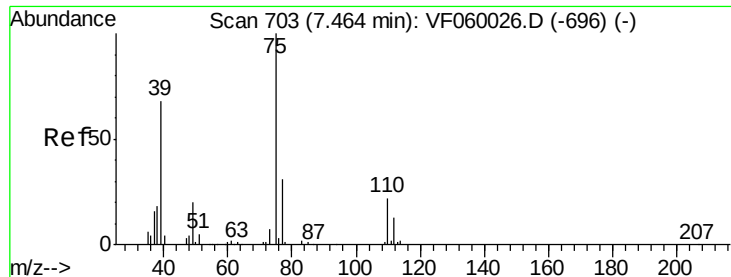
Tgt Ion: 98 Resp: 1157  
Ion Ratio Lower Upper  
98 100  
100 33.2 53.2 79.8#



#51  
4-Methyl-2-Pentanone  
Concen: 13.630 ug/l  
RT: 8.41 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: VF060040.D  
Acq: 22 Aug 2018 15:18

Tgt Ion: 43 Resp: 90  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 42.8#





#54

cis-1,3-Dichloropropene

Concen: 5.497 ug/l

RT: 7.56 min Scan# 713

Delta R.T. 0.09 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

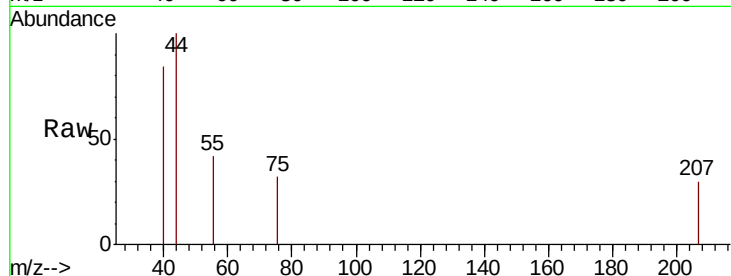
Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

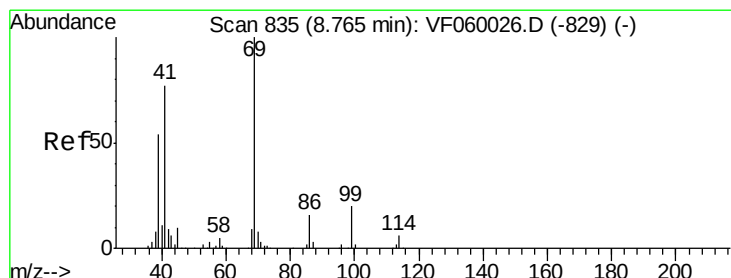
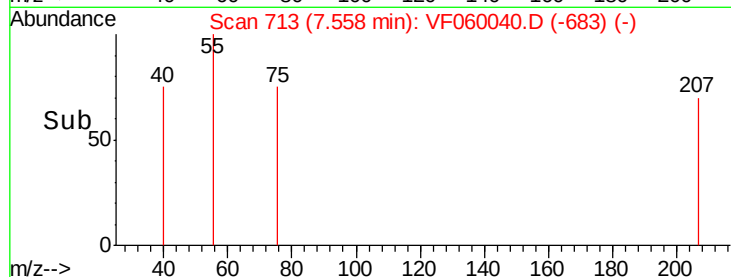
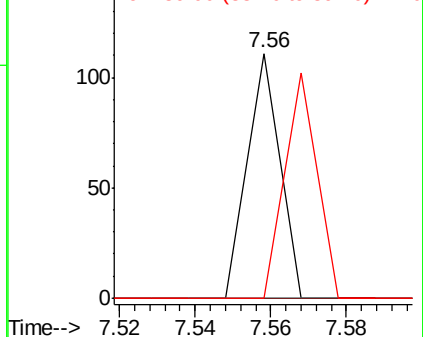
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 66    |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 24.6  | 37.0# |
| 39       | 0.0   | 54.6  | 81.8# |



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#56

Ethyl methacrylate

Concen: 8.692 ug/l

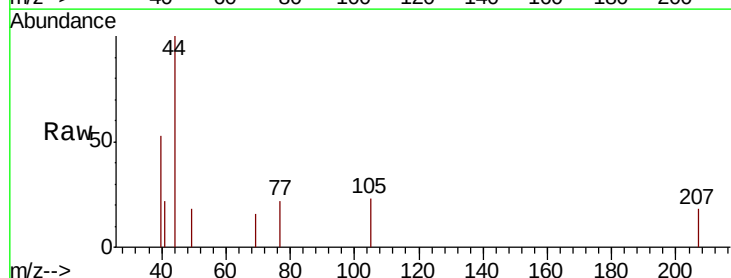
RT: 8.72 min Scan# 831

Delta R.T. -0.04 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

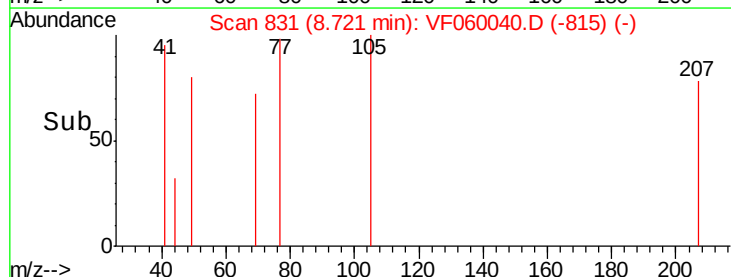
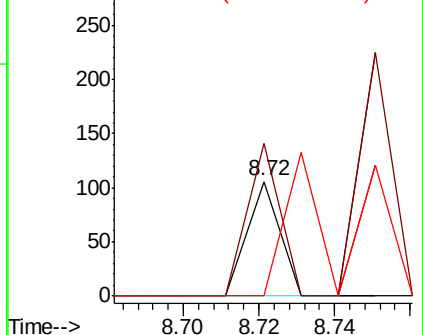
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 63    |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 133.0 | 61.6  | 92.4# |
| 39       | 0.0   | 43.9  | 65.9# |



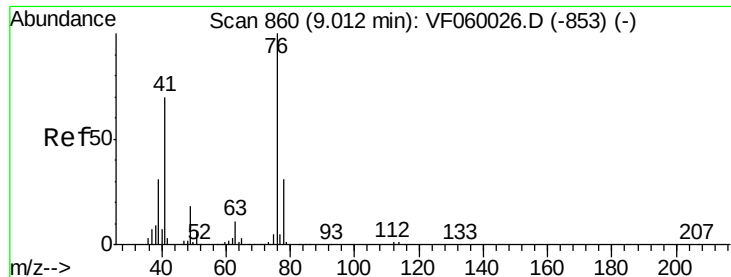
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0







#57

1,3-Dichloropropane

Concen: 5.986 ug/l

RT: 9.01 min Scan# 860

Delta R.T. -0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

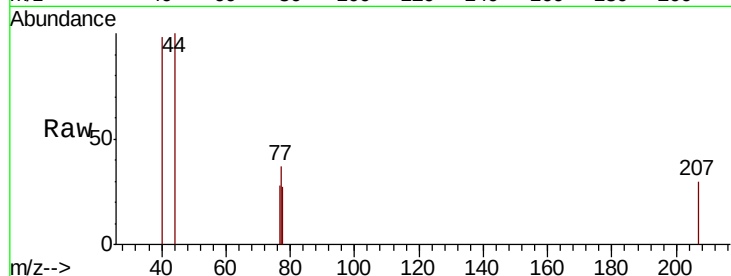
TOD1-SB-01-51.5-52

Tgt Ion: 76 Resp: 63

Ion Ratio Lower Upper

76 100

78 99.1 25.2 37.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

9.01

120

100

80

60

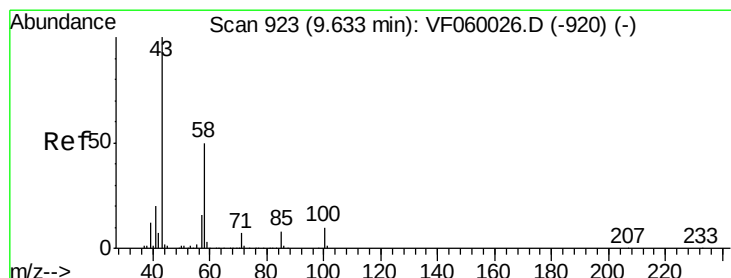
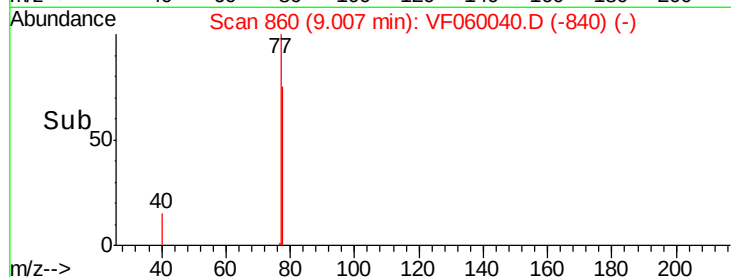
40

20

0

Time-->

8.98 9.00 9.02 9.04



#59

2-Hexanone

Concen: 11.227 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.01 min

Lab File: VF060040.D

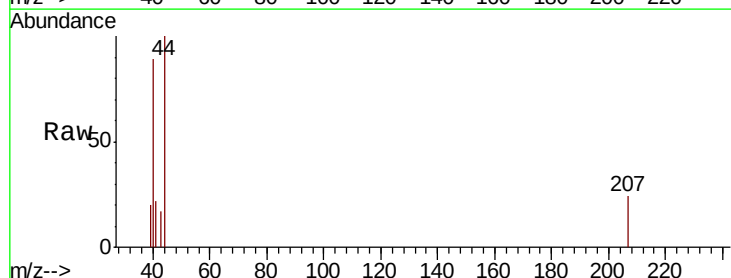
Acq: 22 Aug 2018 15:18

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

58 0.0 23.4 70.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.65

120

100

80

60

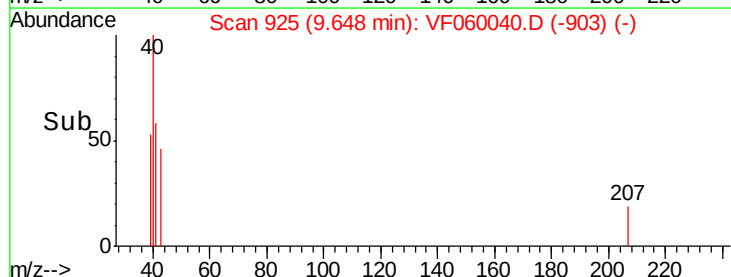
40

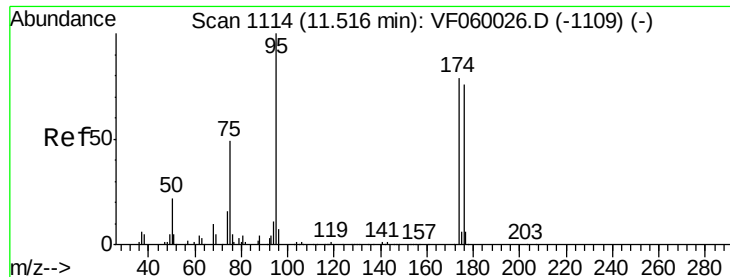
20

0

Time-->

9.62 9.64 9.66 9.68





#62

4-Bromofluorobenzene

Concen: 10.350 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

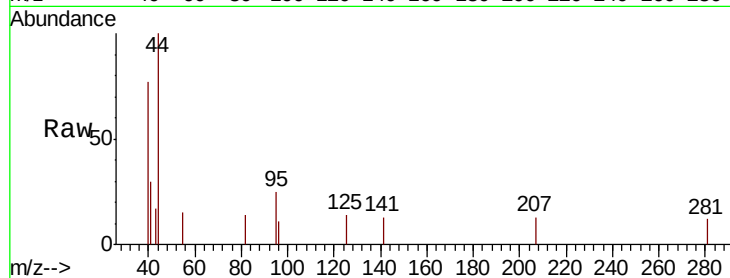
Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

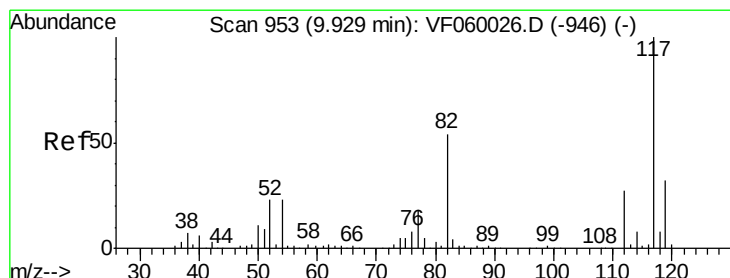
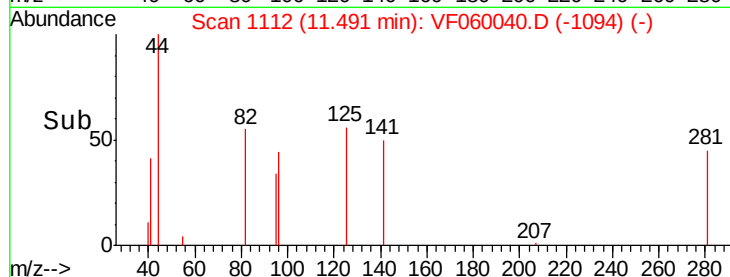
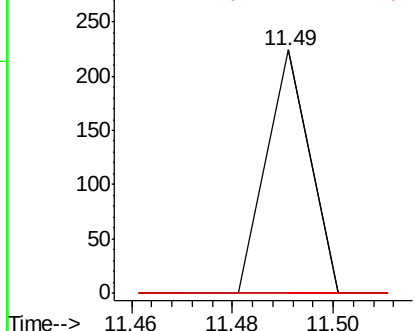
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 132   |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 0.0   | 0.0   | 158.4 |
| 176      | 0.0   | 0.0   | 153.0 |



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

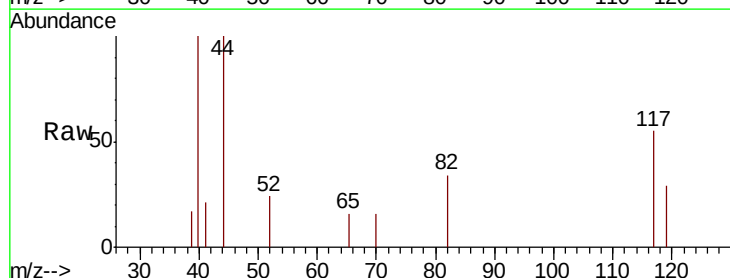
RT: 9.94 min Scan# 955

Delta R.T. 0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

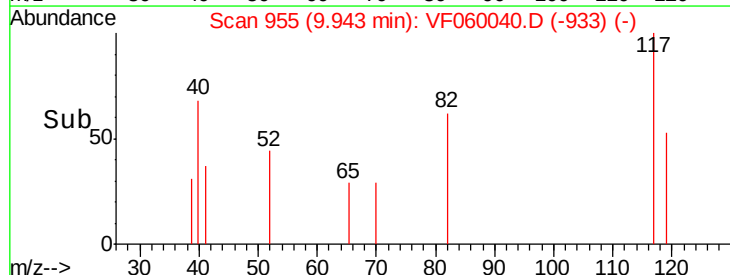
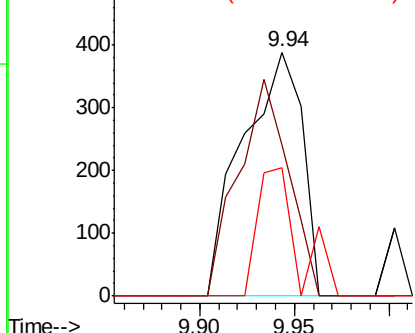
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 849   |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 62.1  | 43.6  | 65.4  |
| 119      | 52.6  | 25.6  | 38.4# |

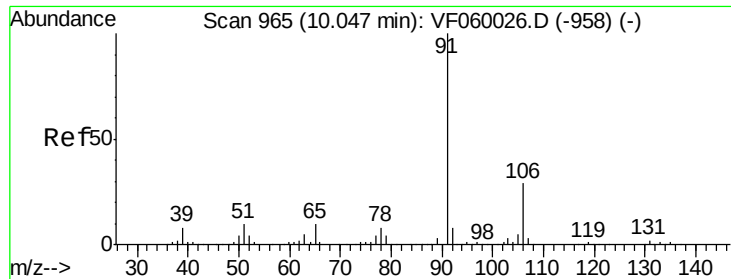


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

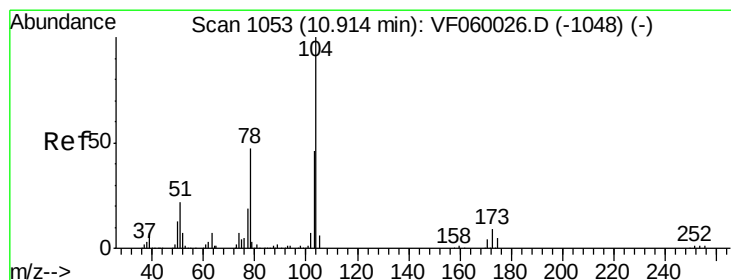
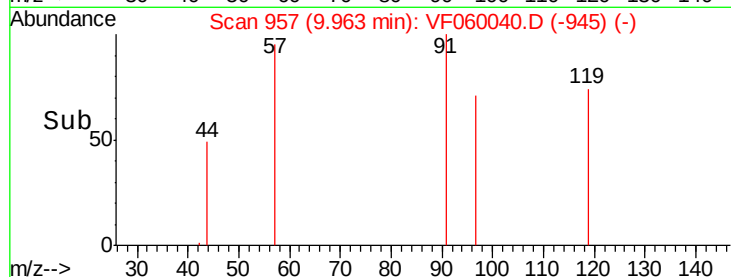
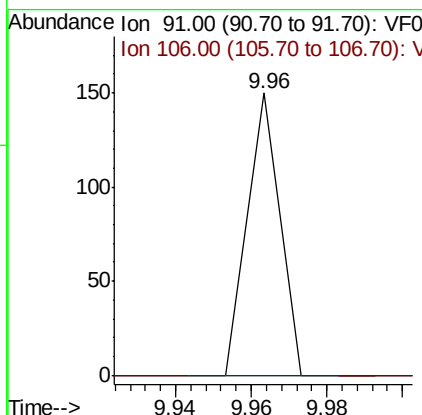
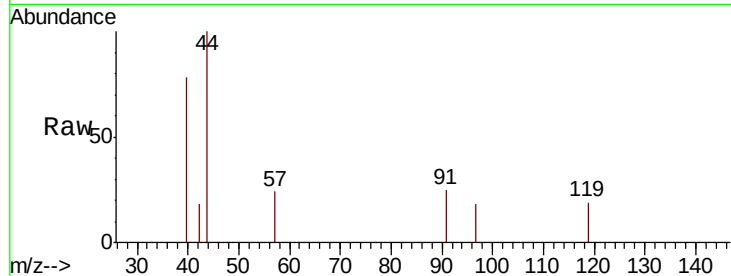




#67  
 Ethyl Benzene  
 Concen: 3.217 ug/l  
 RT: 9.96 min Scan# 957  
 Delta R.T. -0.08 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

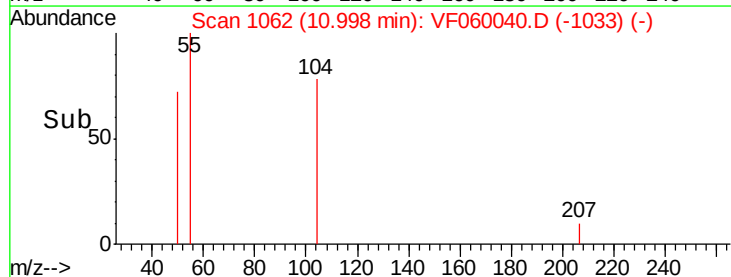
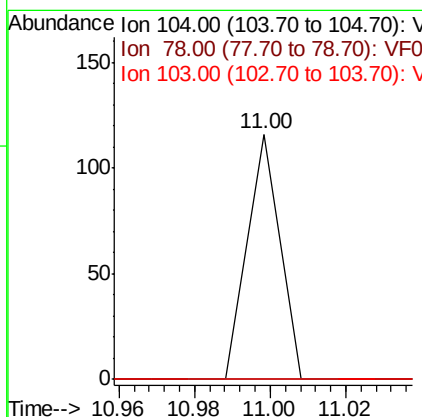
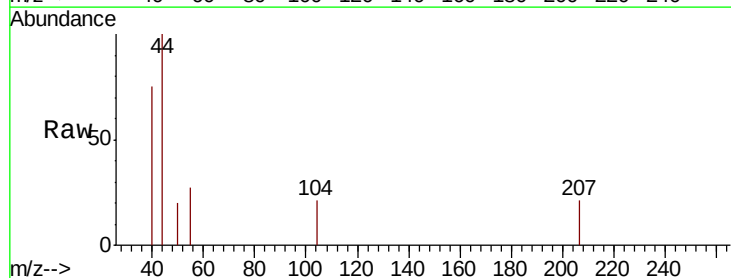
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TOD1-SB-01-51.5-52

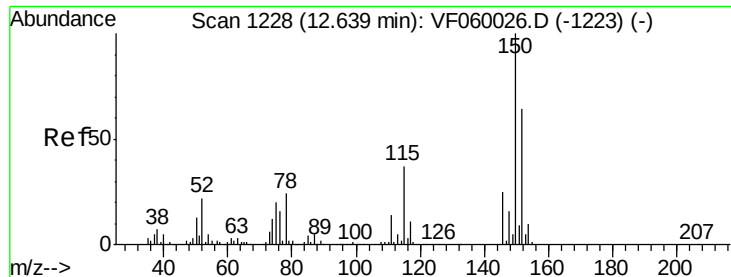
Tgt Ion: 91 Resp: 89  
 Ion Ratio Lower Upper  
 91 100  
 106 0.0 23.6 35.4#



#70  
 Styrene  
 Concen: 4.150 ug/l  
 RT: 11.00 min Scan# 1062  
 Delta R.T. 0.08 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

Tgt Ion: 104 Resp: 69  
 Ion Ratio Lower Upper  
 104 100  
 78 0.0 38.0 57.0#  
 103 0.0 37.6 56.4#

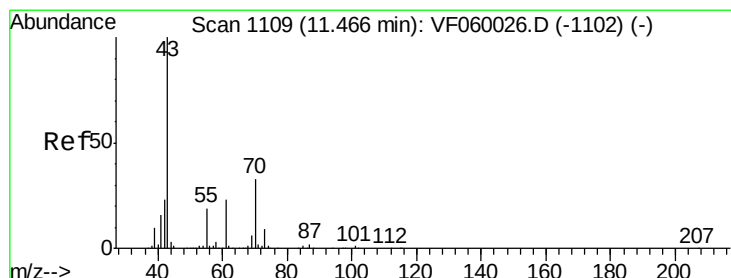
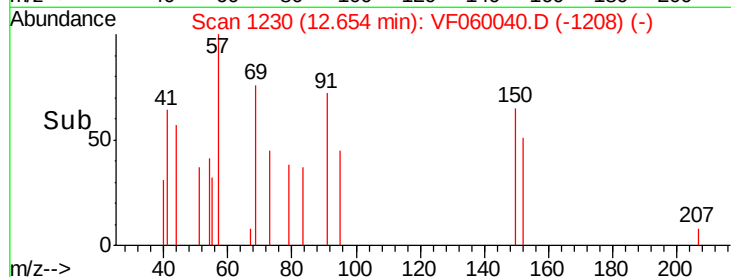
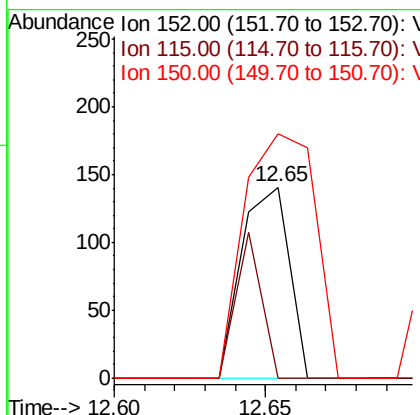
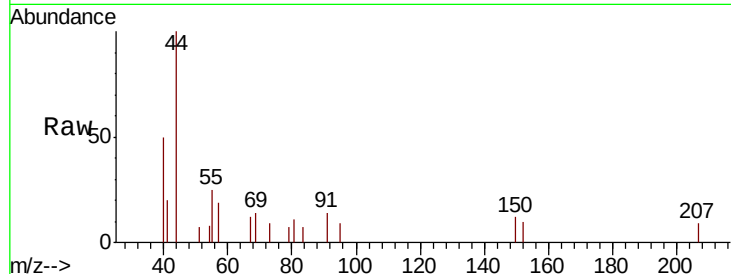




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.65 min Scan# 1230  
 Delta R.T. 0.01 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

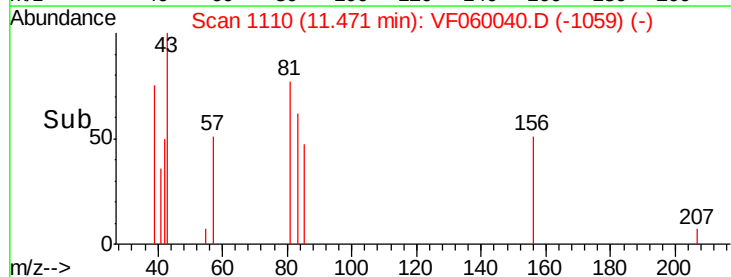
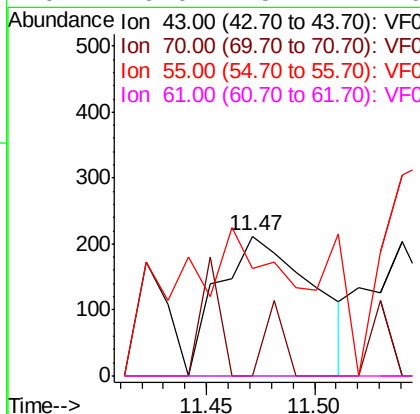
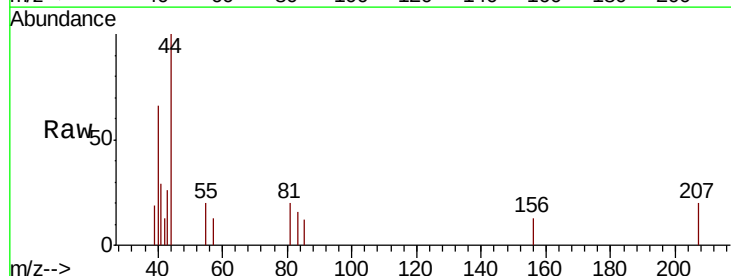
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TOD1-SB-01-51.5-52

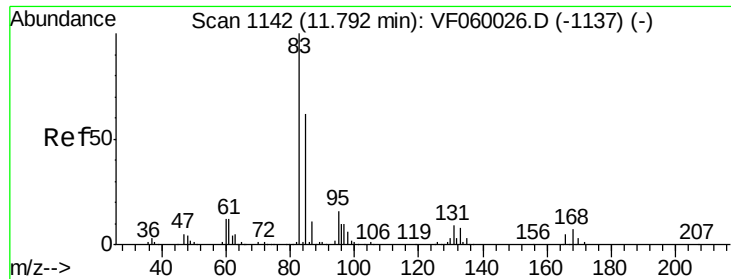
Tgt Ion: 152 Resp: 156  
 Ion Ratio Lower Upper  
 152 100  
 115 0.0 28.6 85.9#  
 150 127.7 0.0 312.0



#74  
 N-ethyl acetate  
 Concen: 220.300 ug/l  
 RT: 11.47 min Scan# 1110  
 Delta R.T. 0.00 min  
 Lab File: VF060040.D  
 Acq: 22 Aug 2018 15:18

Tgt Ion: 43 Resp: 643  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 26.4 39.6#  
 55 76.4 15.0 22.4#  
 61 0.0 18.4 27.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 89.723 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

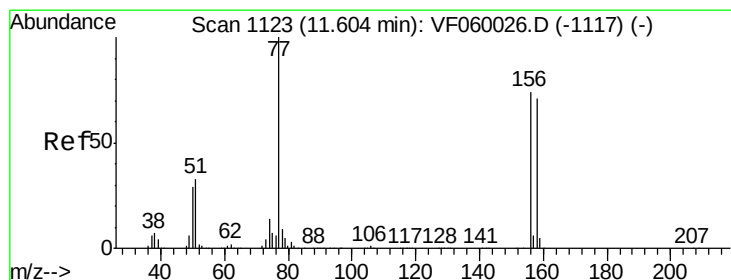
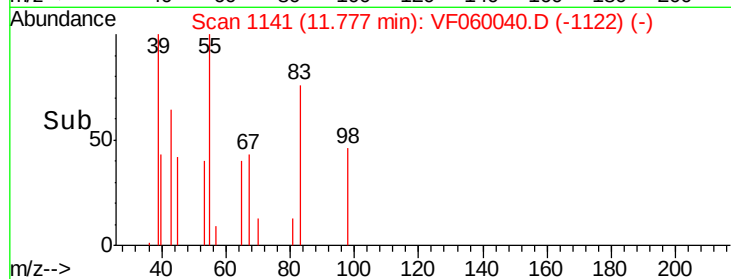
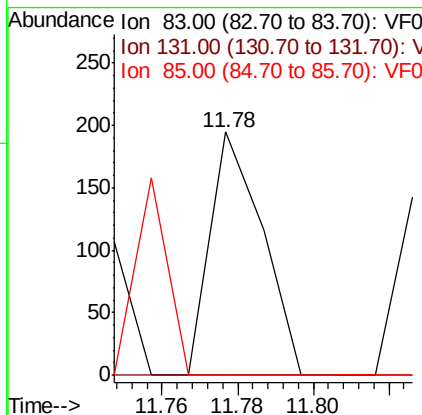
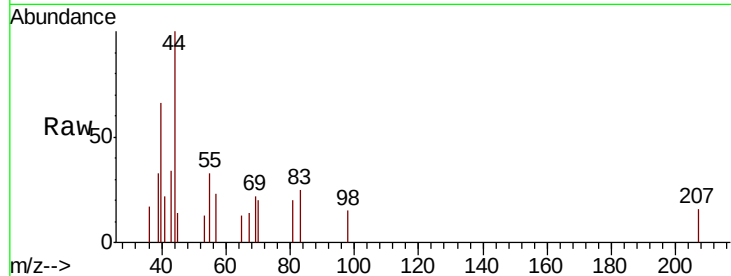
Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 184   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 0.0   | 4.5   | 13.7# |
| 85       | 0.0   | 31.3  | 93.9# |



#77

Bromobenzene

Concen: 23.886 ug/l

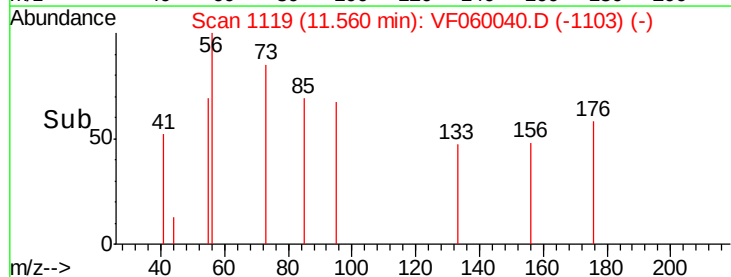
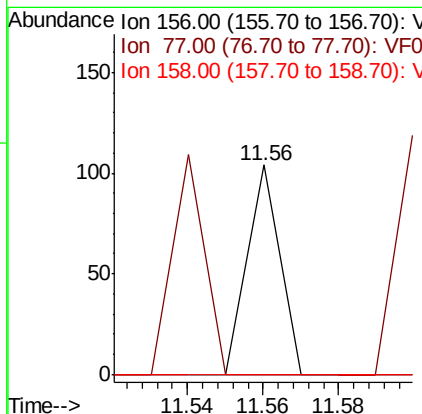
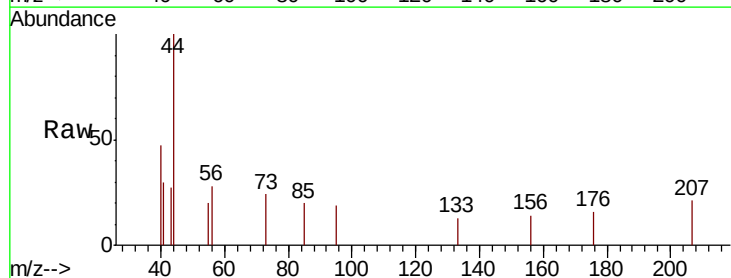
RT: 11.56 min Scan# 1119

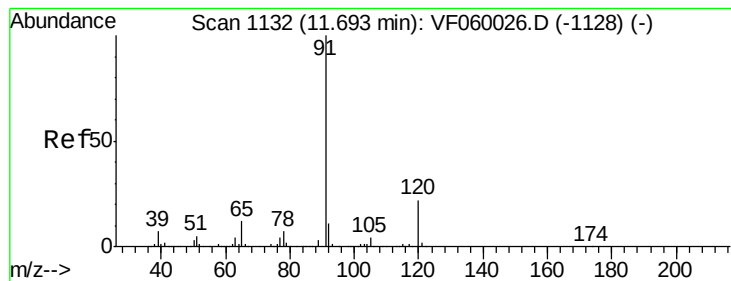
Delta R.T. -0.04 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 156   | Resp: | 61     |
| Ion      | Ratio | Lower | Upper  |
| 156      | 100   |       |        |
| 77       | 0.0   | 68.0  | 204.0# |
| 158      | 0.0   | 48.4  | 145.3# |





#78

n-propylbenzene

Concen: 7.161 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

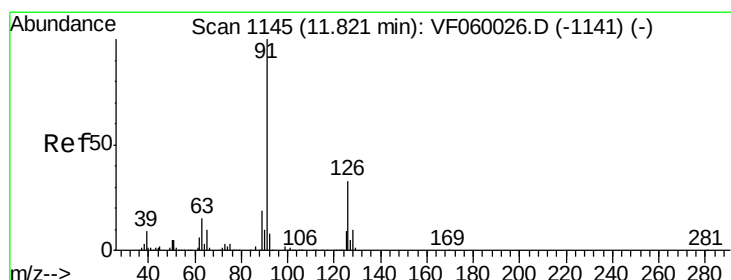
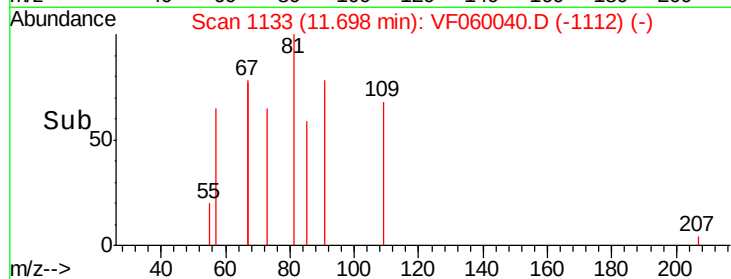
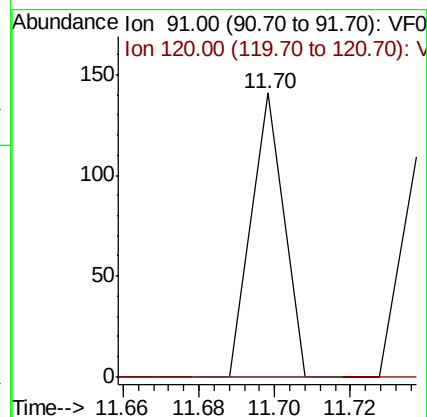
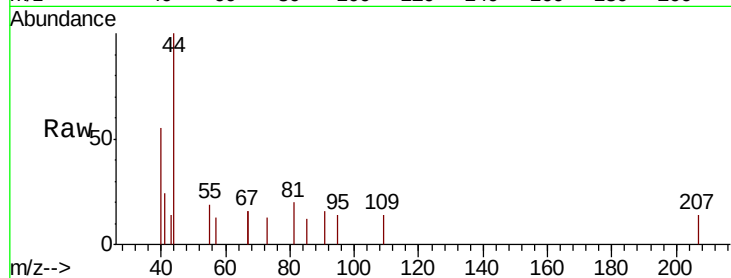
TOD1-SB-01-51.5-52

Tgt Ion: 91 Resp: 83

Ion Ratio Lower Upper

91 100

120 0.0 10.9 32.7#



#79

2-Chlorotoluene

Concen: 25.091 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF060040.D

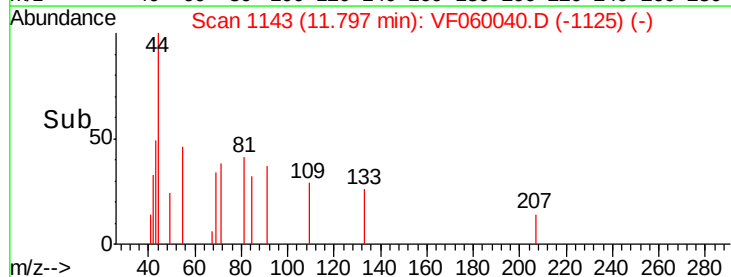
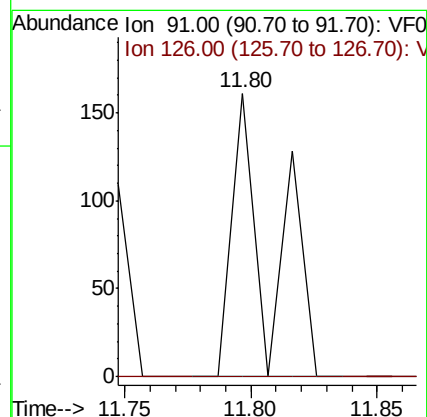
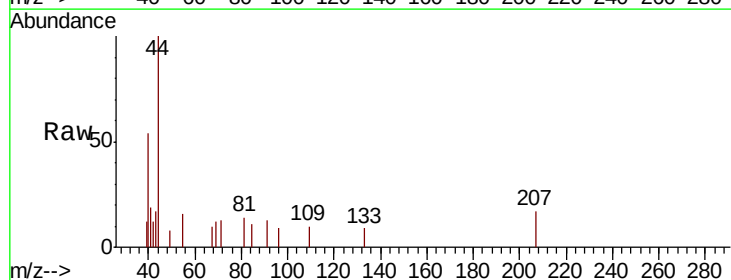
Acq: 22 Aug 2018 15:18

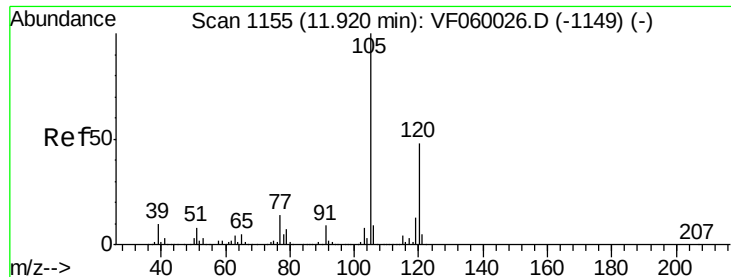
Tgt Ion: 91 Resp: 171

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#





#80

1,3,5-Trimethylbenzene

Concen: 10.879 ug/l

RT: 11.91 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

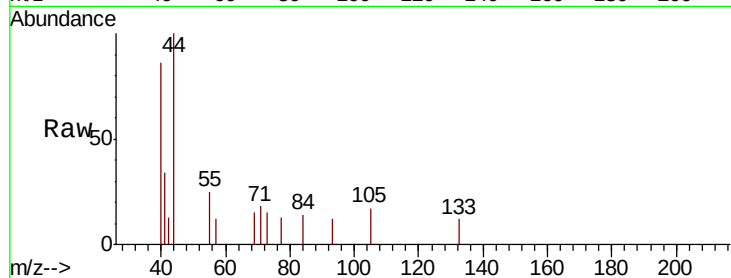
TOD1-SB-01-51.5-52

Tgt Ion:105 Resp: 89

Ion Ratio Lower Upper

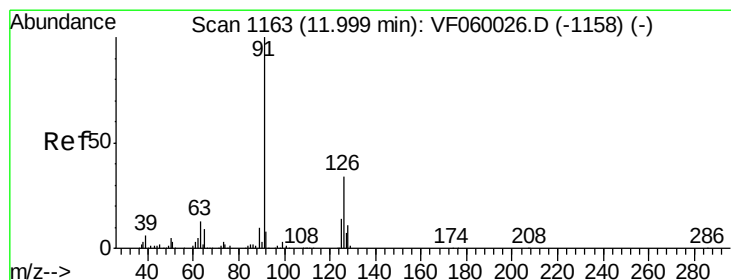
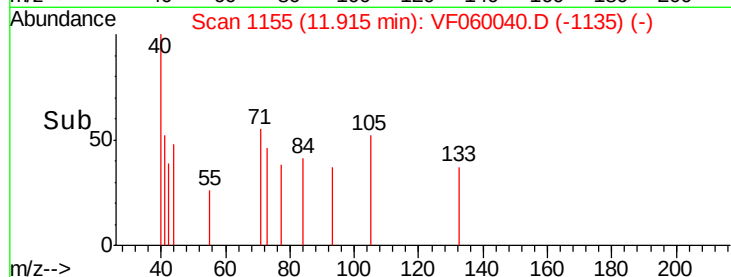
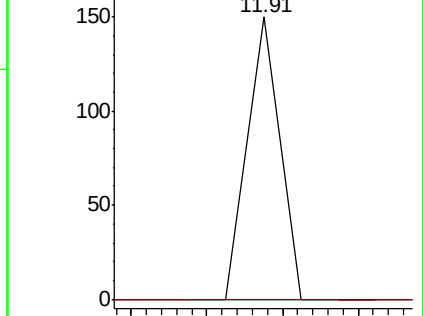
105 100

120 0.0 23.8 71.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

4-Chlorotoluene

Concen: 10.136 ug/l

RT: 12.04 min Scan# 1168

Delta R.T. 0.04 min

Lab File: VF060040.D

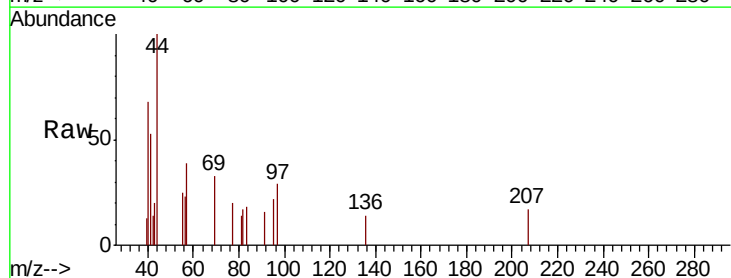
Acq: 22 Aug 2018 15:18

Tgt Ion: 91 Resp: 75

Ion Ratio Lower Upper

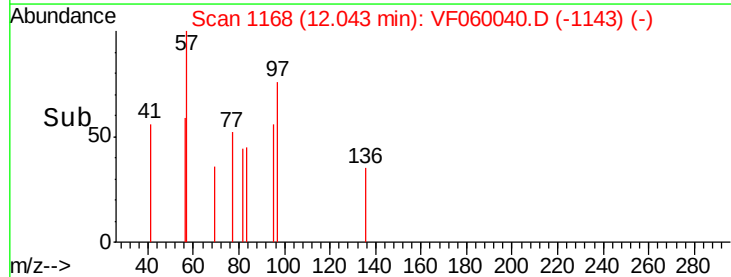
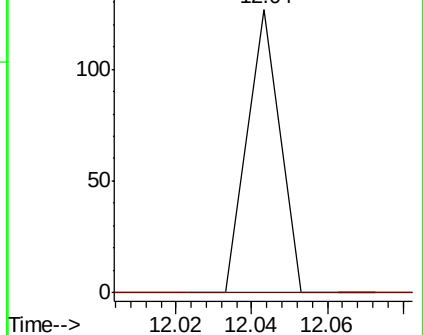
91 100

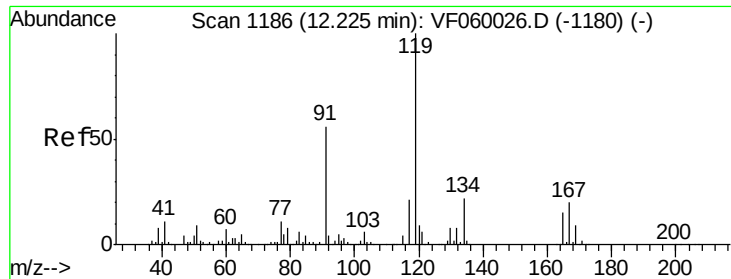
126 0.0 17.0 50.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 9.149 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

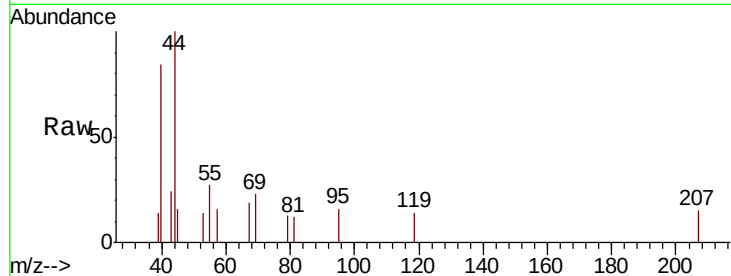
Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

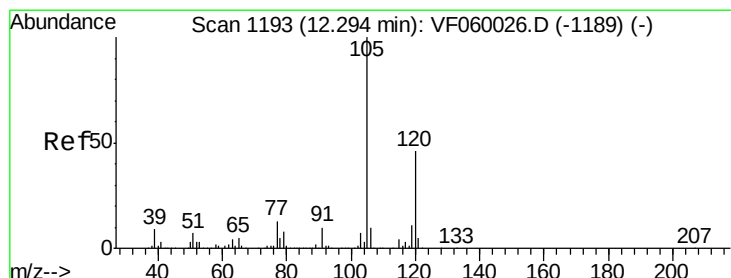
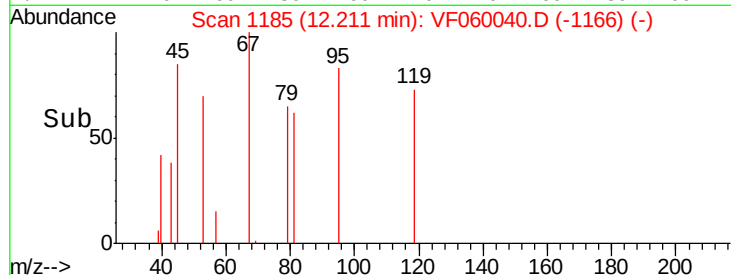
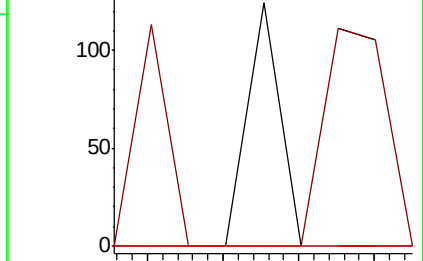
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 73    |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 0.0   | 28.1  | 84.3# |
| 134      | 0.0   | 11.1  | 33.3# |



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 9.888 ug/l

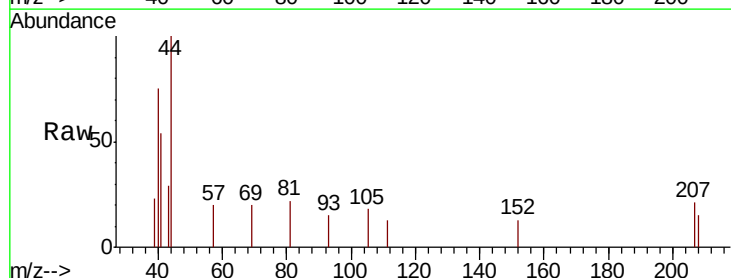
RT: 12.30 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VF060040.D

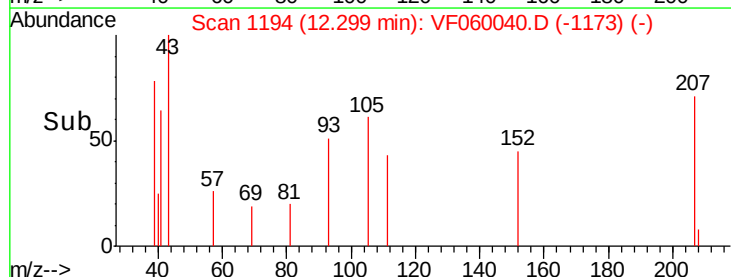
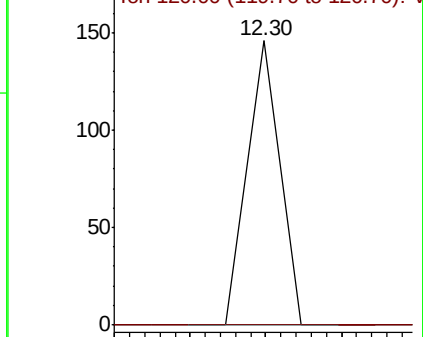
Acq: 22 Aug 2018 15:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 86    |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 0.0   | 23.3  | 69.8# |

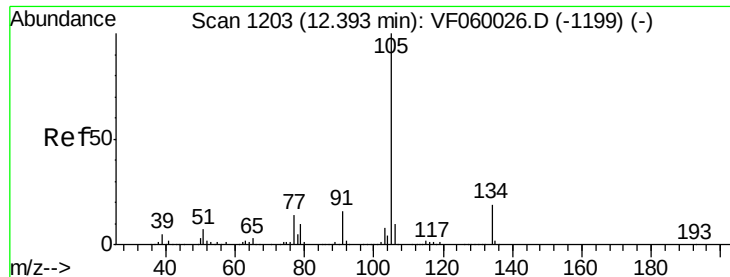


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V







#85

sec-Butylbenzene

Concen: 5.401 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

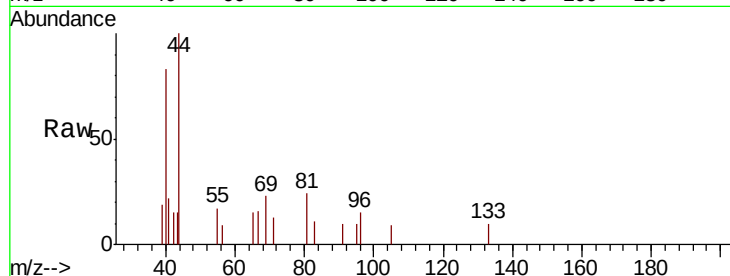
TOD1-SB-01-51.5-52

Tgt Ion:105 Resp: 60

Ion Ratio Lower Upper

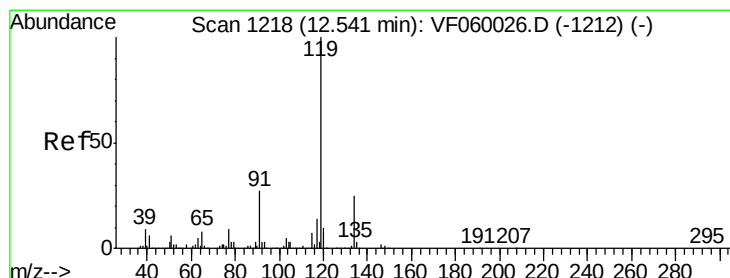
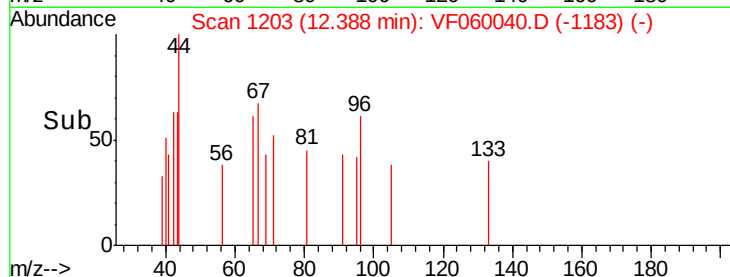
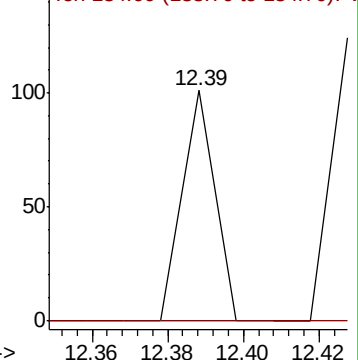
105 100

134 0.0 9.3 27.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 9.549 ug/l

RT: 12.57 min Scan# 1221

Delta R.T. 0.02 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

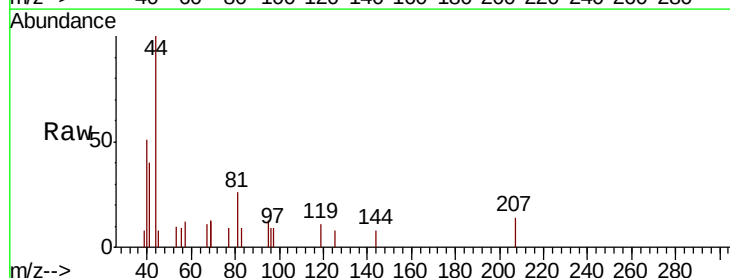
Tgt Ion:119 Resp: 88

Ion Ratio Lower Upper

119 100

134 0.0 12.4 37.2#

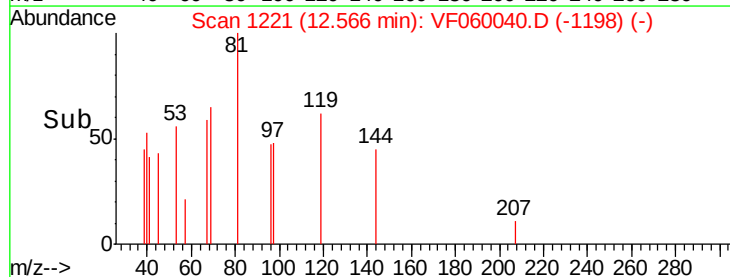
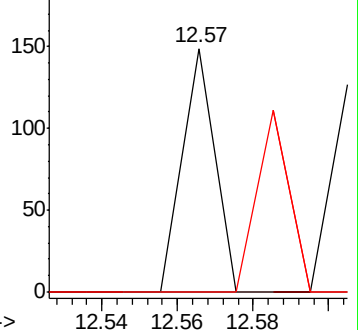
91 0.0 13.5 40.4#

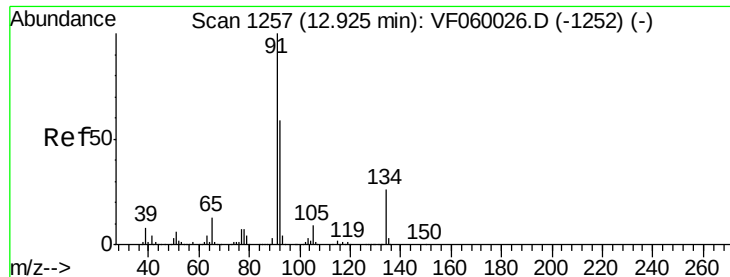


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 22.561 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF060040.D

Acq: 22 Aug 2018 15:18

Instrument :

MSVOA\_F

ClientSampleId :

TOD1-SB-01-51.5-52

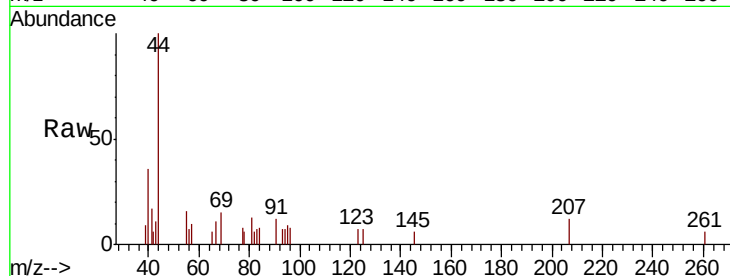
Tgt Ion: 91 Resp: 202

Ion Ratio Lower Upper

91 100

92 0.0 29.3 87.9#

134 0.0 12.8 38.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

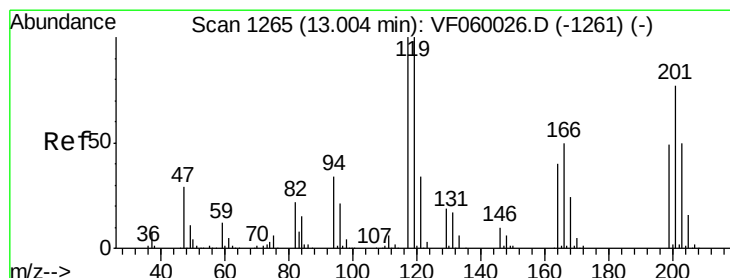
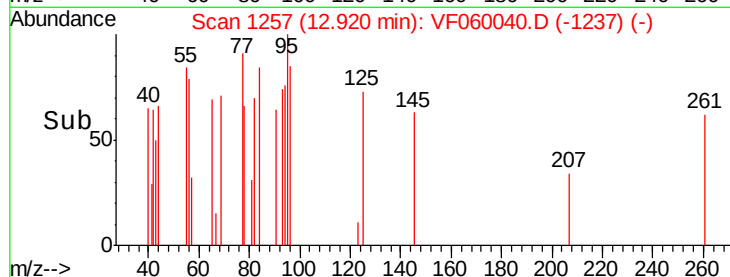
Ion 134.00 (133.70 to 134.70): V

12.92

207

261

Time-->



#90

Hexachloroethane

Concen: 30.422 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. -0.11 min

Lab File: VF060040.D

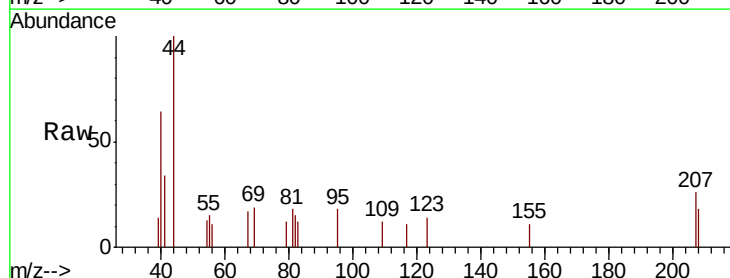
Acq: 22 Aug 2018 15:18

Tgt Ion: 117 Resp: 63

Ion Ratio Lower Upper

117 100

201 0.0 38.6 115.8#



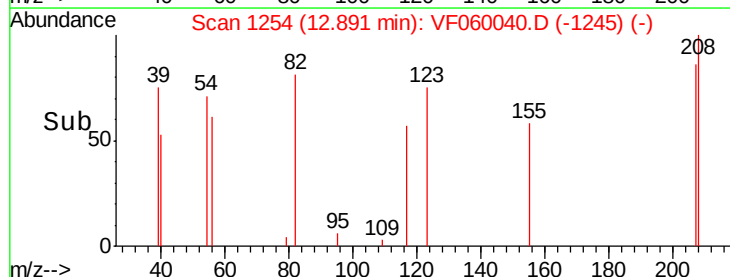
Abundance Ion 117.00 (116.70 to 117.70): V

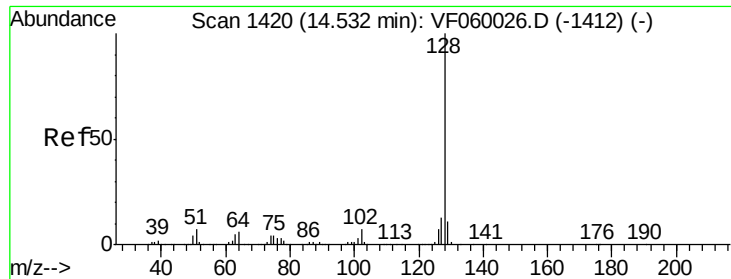
Ion 201.00 (200.70 to 201.70): V

12.89

207

Time-->





#95  
Naphthalene  
Concen: 28.109 ug/l  
RT: 14.56 min Scan# 1423  
Delta R.T. 0.03 min  
Lab File: VF060040.D  
Acq: 22 Aug 2018 15:18

Instrument :  
MSVOA\_F  
ClientSampleId :  
TOD1-SB-01-51.5-52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.4  | 15.6# |
| 129     | 0.0   | 8.5   | 12.7# |

