

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\  
 Data File : VF062180.D  
 Acq On : 16 Apr 2019 17:15  
 Operator : FY/SY  
 Sample : K2345-04  
 Misc : 7.62g/5mL/MSVOA F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-2

Manual Integrations  
 APPROVED

MMDadoda  
 4/17/2019 11:49:44 AM

Quant Time: Apr 17 08:23:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F041619S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 07:56:48 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 5.06  | 168  | 95423    | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.78  | 114  | 243390   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.91  | 117  | 229354   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.61 | 152  | 107748   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 141843   | 165.07  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 330.14% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 155098   | 80.78   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 161.56% |          |
| 50) Toluene-d8              | 7.71  | 98   | 232919   | 41.51   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 83.02%  |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 124996   | 56.42   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 112.84% |          |
| Target Compounds            |       |      |          |         |         |          |
| 16) Acetone                 | 2.35  | 43   | 43835    | 226.256 | ug/l    | 94       |
| 20) Methylene Chloride      | 2.29  | 84   | 46719m   | 50.483  | ug/l    |          |
| 40) Benzene                 | 4.82  | 78   | 10088    | 1.412   | ug/l #  | 88       |
| 52) Toluene                 | 7.78  | 92   | 55617    | 13.254  | ug/l    | 93       |
| 59) 2-Hexanone              | 9.62  | 43   | 21020    | 29.813  | ug/l    | 91       |
| 95) Naphthalene             | 14.49 | 128  | 19588    | 4.404   | ug/l #  | 96       |

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

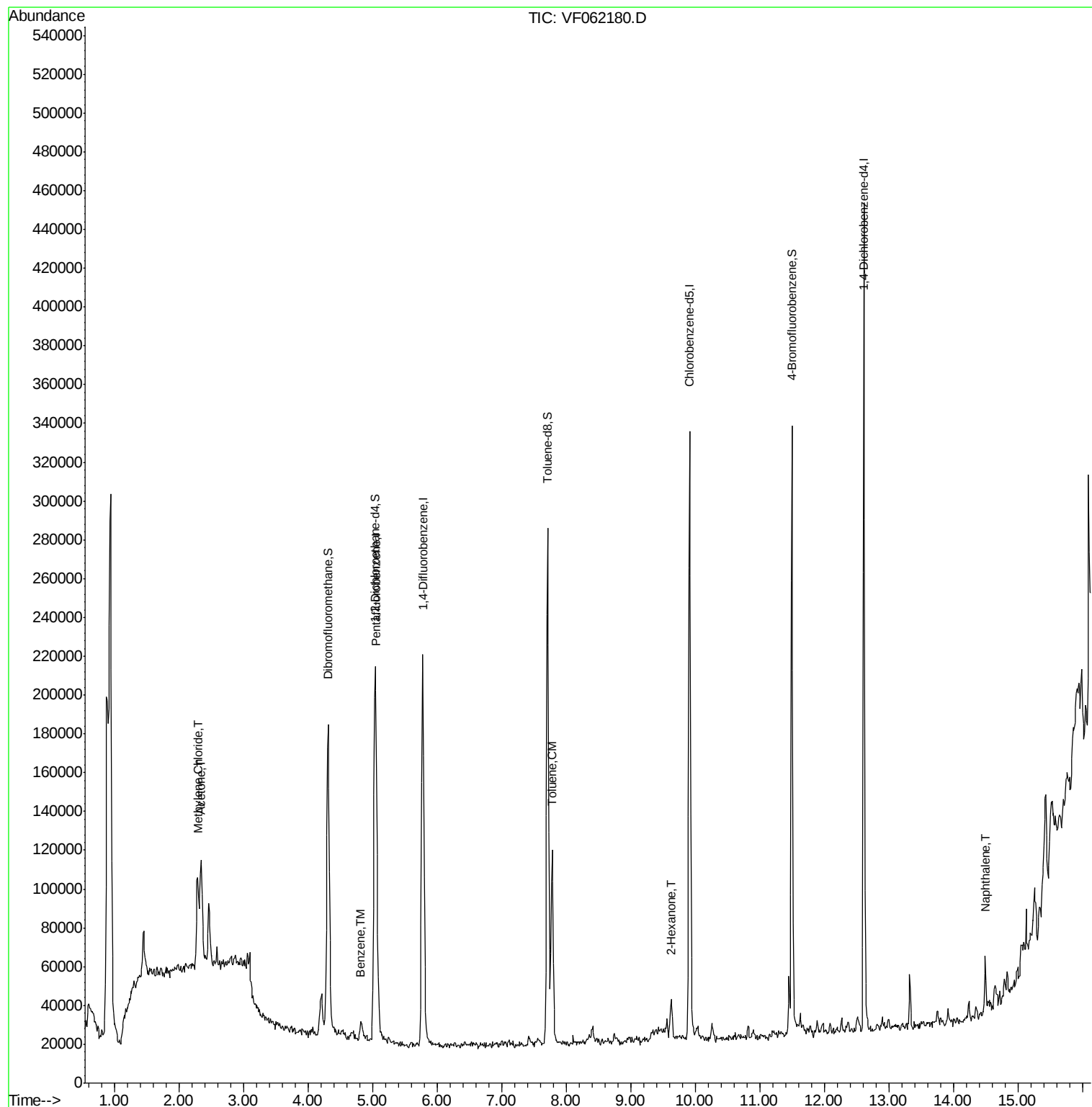
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF041619\  
Data File : VF062180.D  
Acq On : 16 Apr 2019 17:15  
Operator : FY/SY  
Sample : K2345-04  
Misc : 7.62g/5mL/MSVOA F/SOIL  
ALS Vial : 14 Sample Multiplier: 1

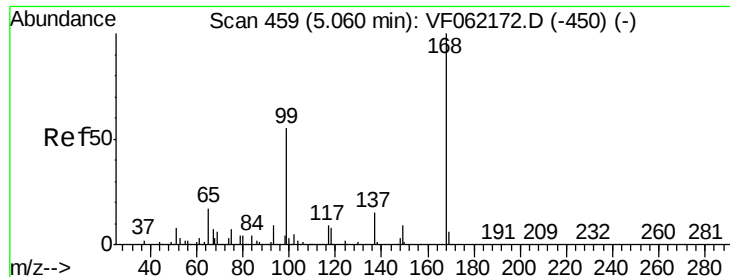
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-2

Manual Integrations  
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4/17/2019 11:49:44 AM

Quant Time: Apr 17 08:23:43 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F041619S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 07:56:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

Instrument :

MSVOA\_F

ClientSampleId :

TP-2

Tot Ion:168 Resp: 95423

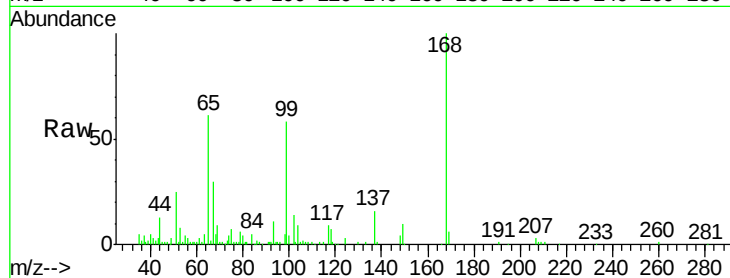
Ion Ratio Lower Upper

168 100

99 57.6 44.2 66.4

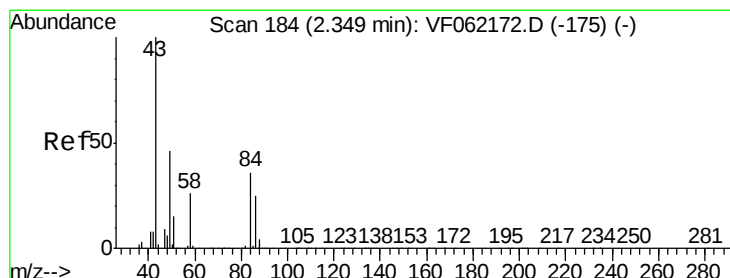
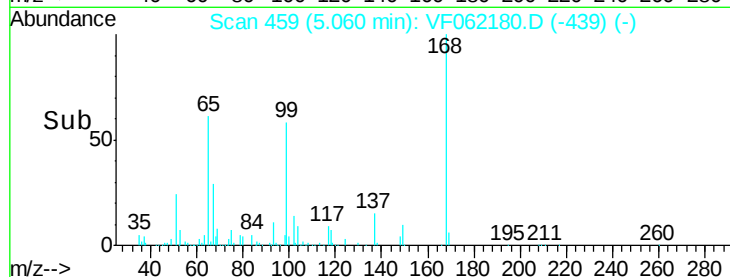
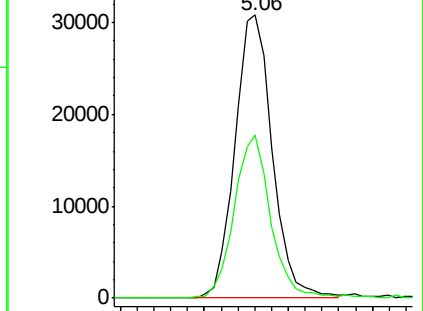
Manual Integrations  
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4/17/2019 11:49:44 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#16

Acetone

Concen: 226.256 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF062180.D

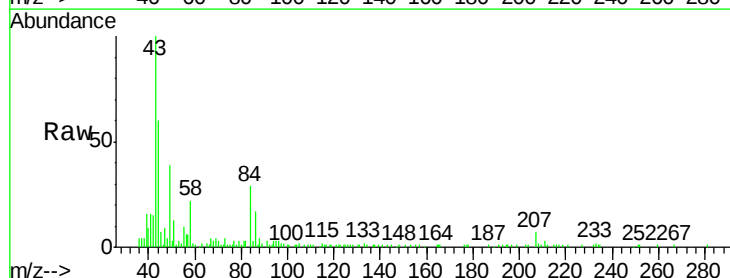
Acq: 16 Apr 2019 17:15

Tgt Ion: 43 Resp: 43835

Ion Ratio Lower Upper

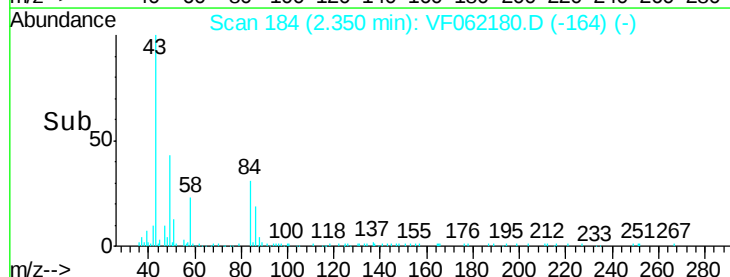
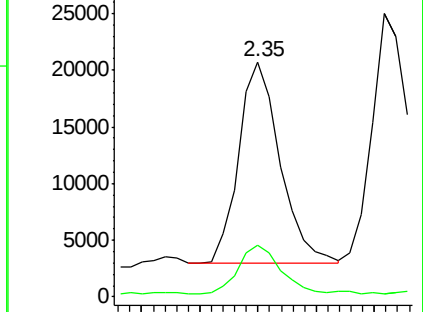
43 100

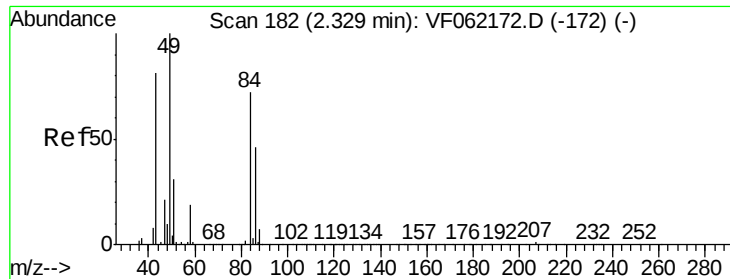
58 22.1 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





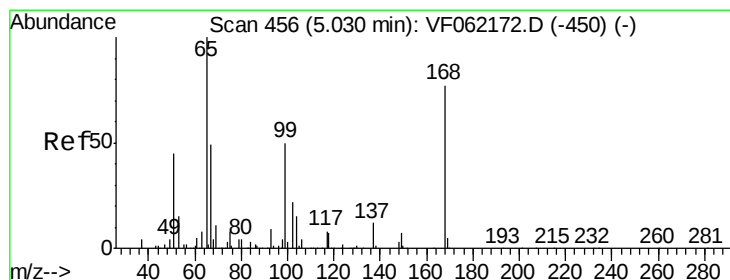
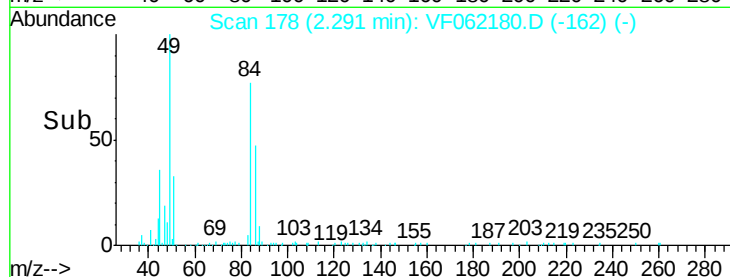
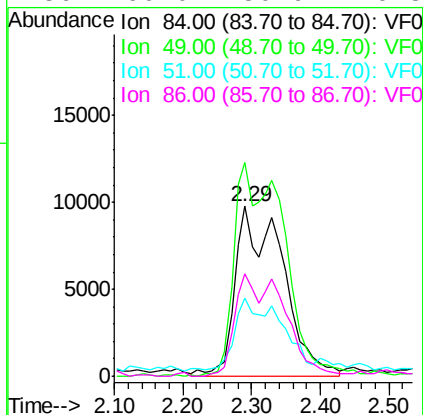
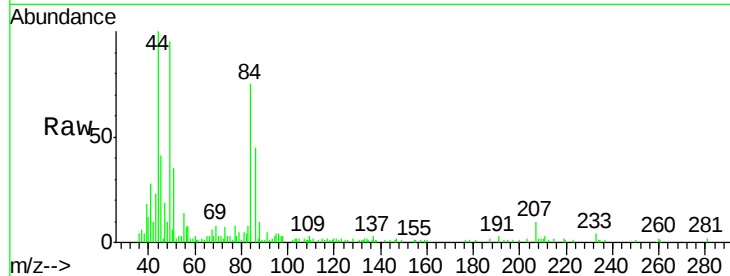
#20  
Methvlene Chloride  
Concen: 50.483 ug/l m  
RT: 2.29 min Scan# 178  
Delta R.T. -0.04 min  
Lab File: VF062180.D  
Acq: 16 Apr 2019 17:15

Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 46719 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 125.8 | 111.5 | 167.3 |
| 51       | 45.9  | 34.9  | 52.3  |
| 86       | 60.0  | 50.9  | 76.3  |

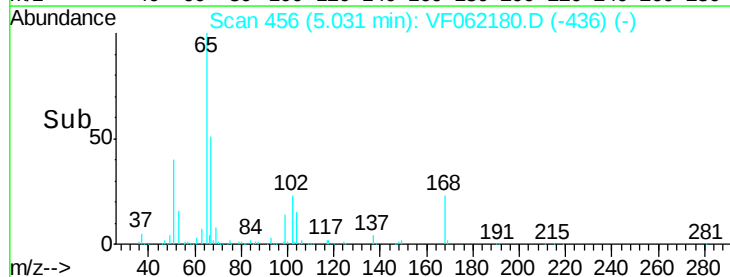
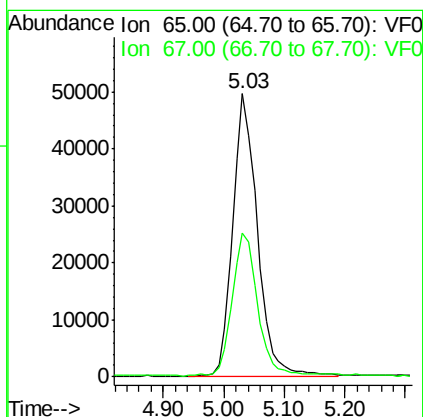
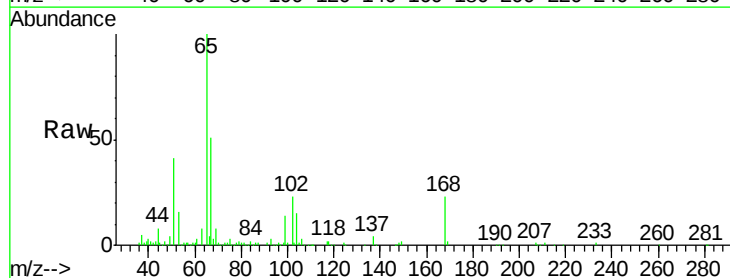
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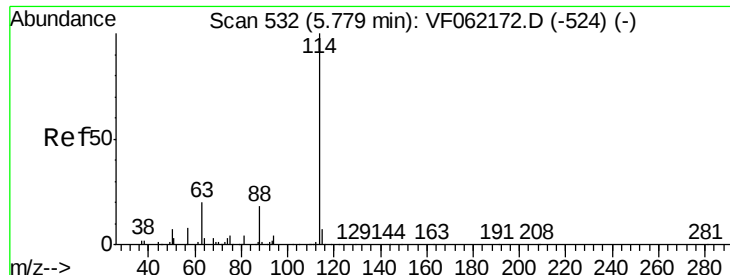
MMDadoda  
4/17/2019 11:49:44 AM



#33  
1,2-Dichloroethane-d4  
Concen: 165.075 ug/l  
RT: 5.03 min Scan# 456  
Delta R.T. 0.00 min  
Lab File: VF062180.D  
Acq: 16 Apr 2019 17:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 141843 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 51.0  | 0.0   | 107.8  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

Instrument :

MSVOA\_F

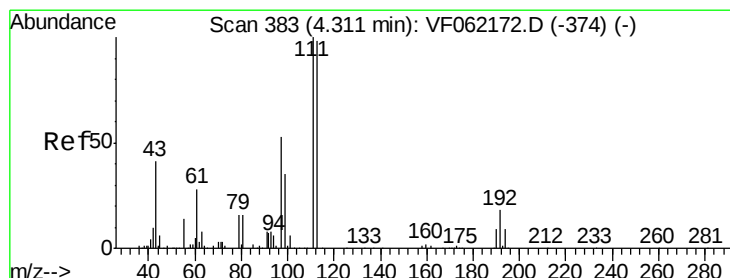
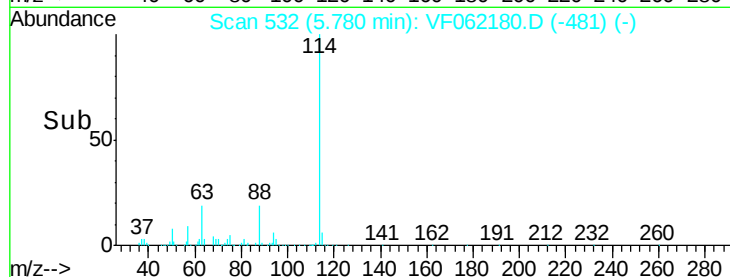
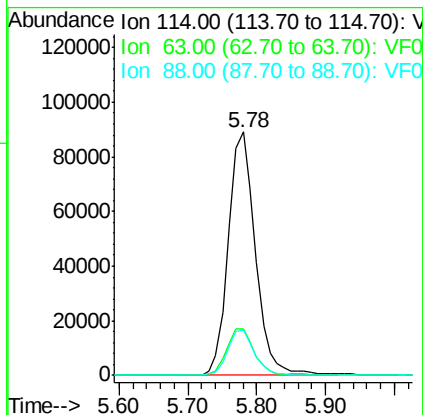
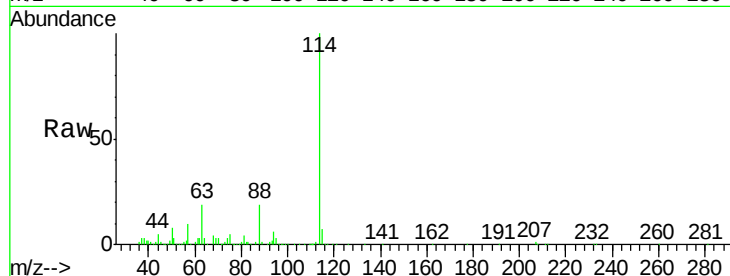
ClientSampleId :

TP-2

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 114  | Resp: | 243390 |
| Ion Ratio |      | Lower | Upper  |
| 114       | 100  |       |        |
| 63        | 19.4 | 0.0   | 40.0   |
| 88        | 18.6 | 0.0   | 36.6   |

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#35

Dibromofluoromethane

Concen: 80.783 ug/l

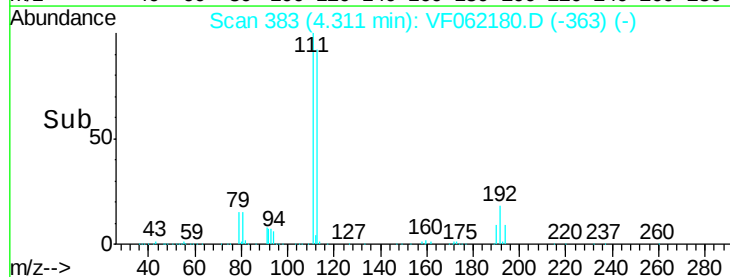
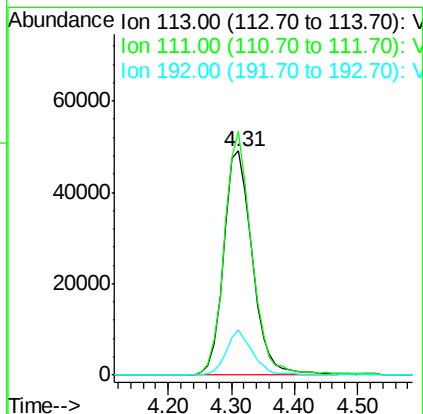
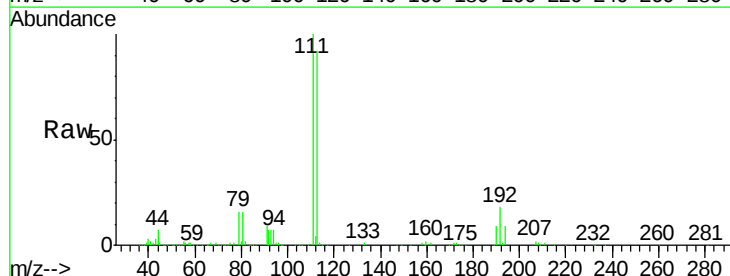
RT: 4.31 min Scan# 383

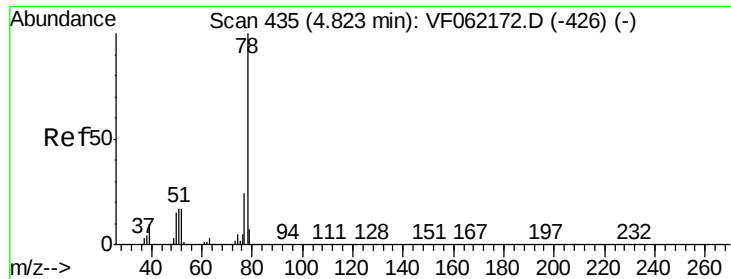
Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 155098 |
| Ion Ratio |       | Lower | Upper  |
| 113       | 100   |       |        |
| 111       | 108.8 | 81.6  | 122.4  |
| 192       | 19.9  | 15.0  | 22.4   |





#40

Benzene

Concen: 1.412 ug/l

RT: 4.82 min Scan# 435

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

Instrument :

MSVOA\_F

ClientSampleId :

TP-2

Tot Ion: 78 Resp: 10088

Ion Ratio Lower Upper

78 100

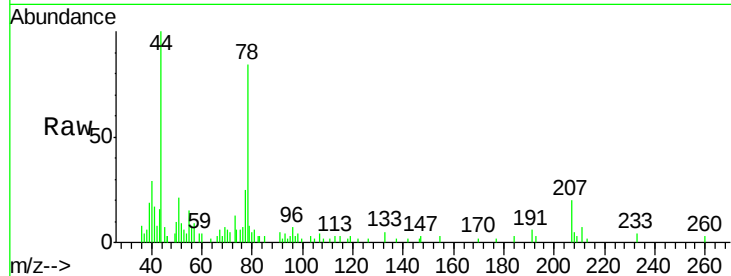
77 29.8 19.1 28.7#

Manual Integrations

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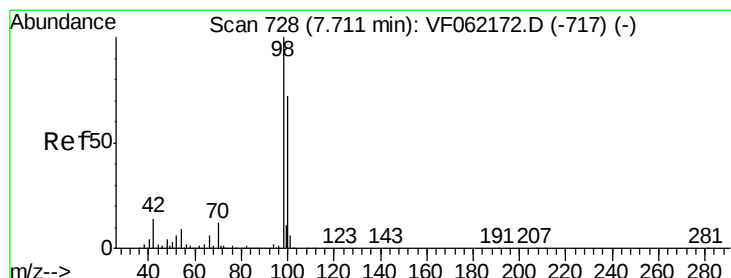
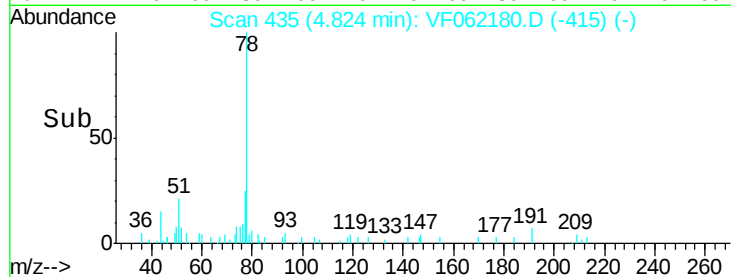
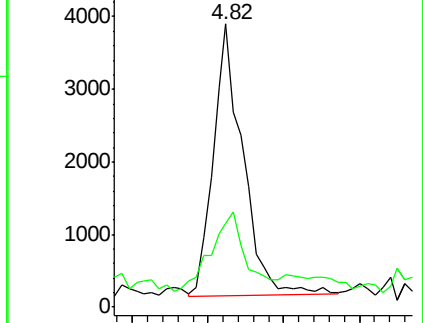
MMDadoda

4/17/2019 11:49:44 AM



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#50

Toluene-d8

Concen: 41.515 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.00 min

Lab File: VF062180.D

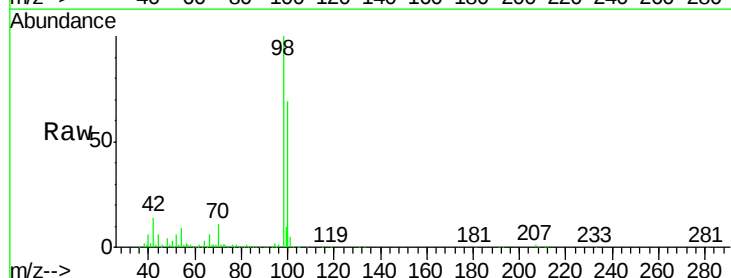
Acq: 16 Apr 2019 17:15

Tgt Ion: 98 Resp: 232919

Ion Ratio Lower Upper

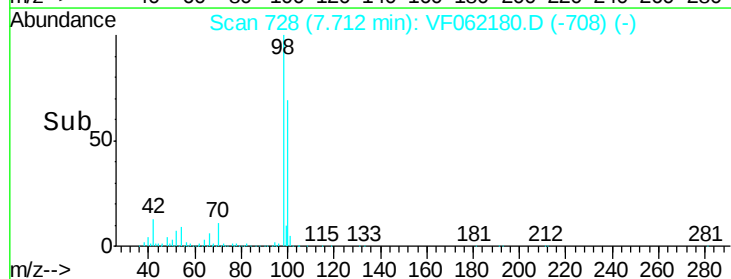
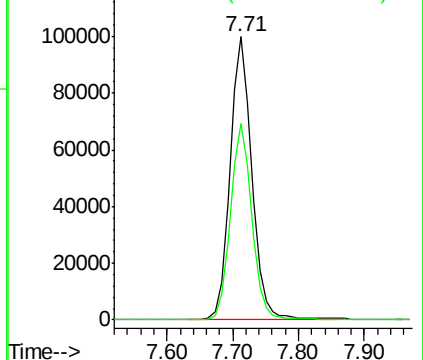
98 100

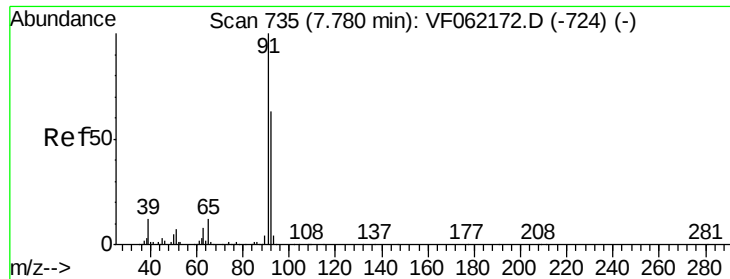
100 69.3 57.4 86.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 13.254 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

Instrument :

MSVOA\_F

ClientSampleId :

TP-2

Tot Ion: 92 Resp: 55617

Ion Ratio Lower Upper

92 100

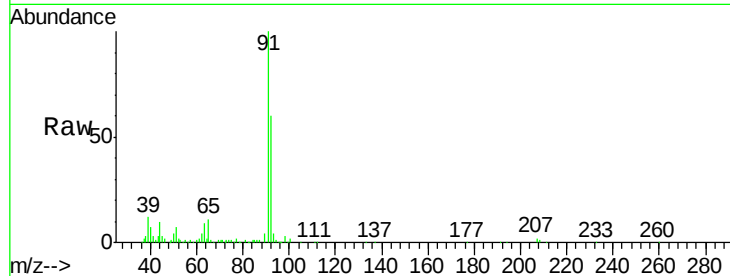
91 168.0 126.9 190.3

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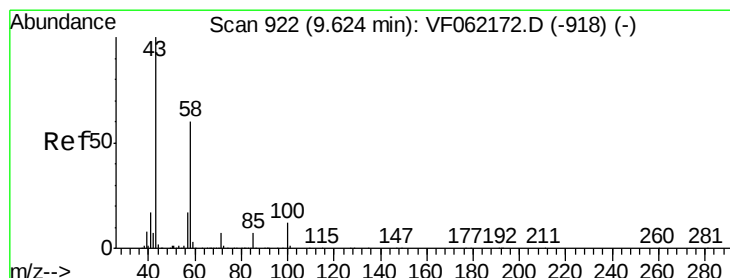
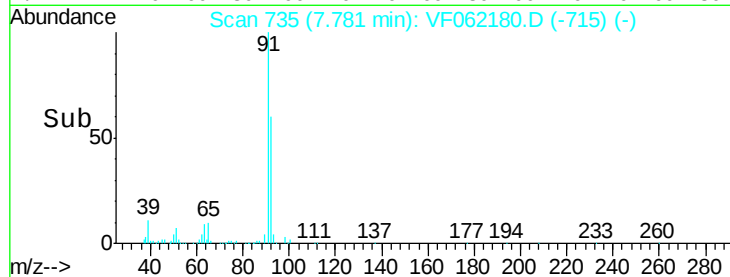
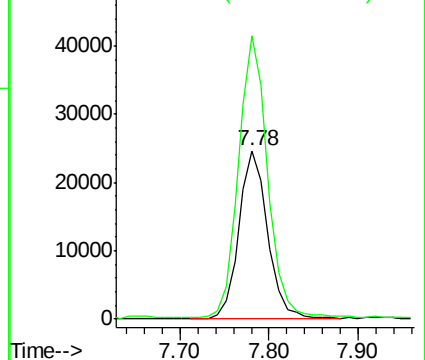
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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 29.813 ug/l

RT: 9.62 min Scan# 922

Delta R.T. 0.00 min

Lab File: VF062180.D

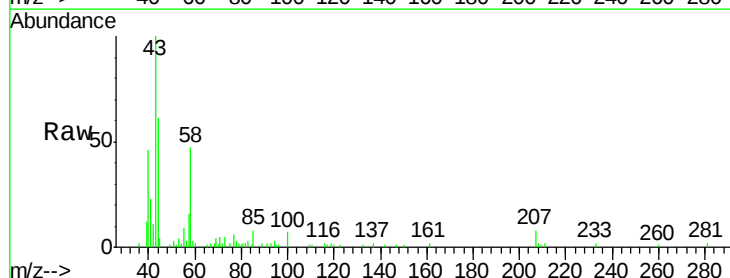
Acq: 16 Apr 2019 17:15

Tgt Ion: 43 Resp: 21020

Ion Ratio Lower Upper

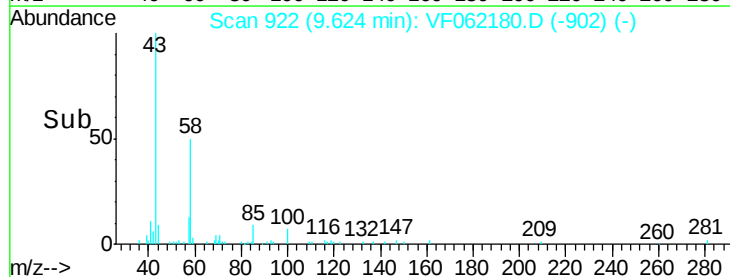
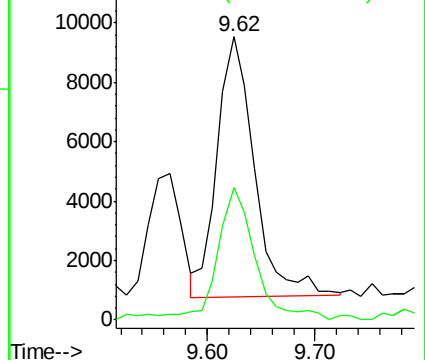
43 100

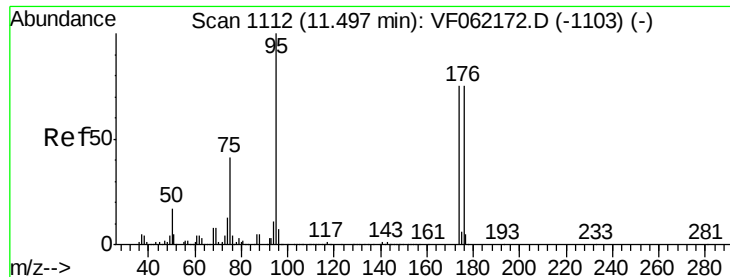
58 46.9 26.8 80.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 56.416 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

Instrument :

MSVOA\_F

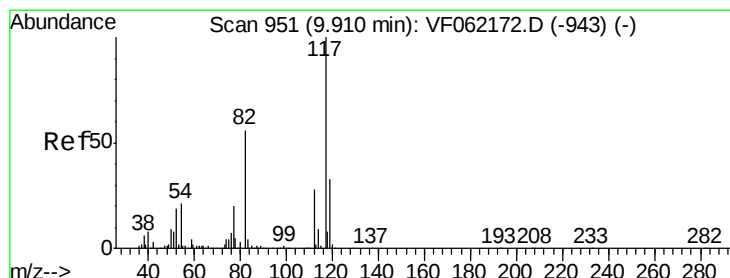
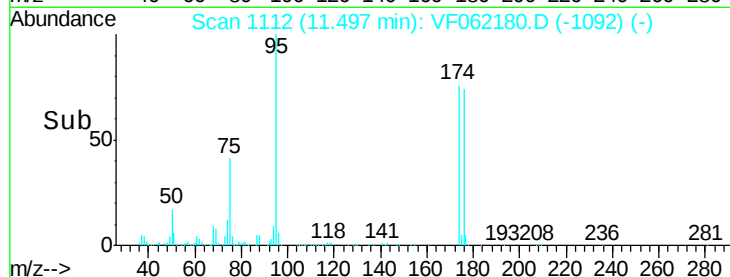
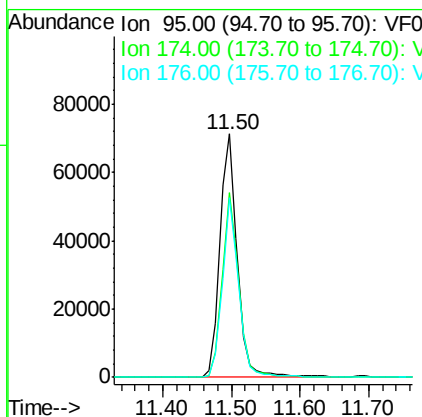
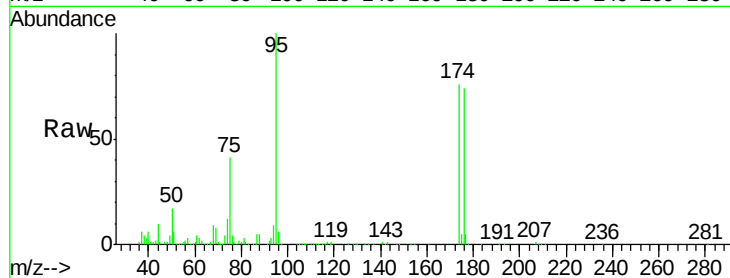
ClientSampleId :

TP-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 124996 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 76.1  | 0.0   | 150.2  |
| 176       | 74.0  | 0.0   | 149.4  |

Manual Integrations  
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4/17/2019 11:49:44 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

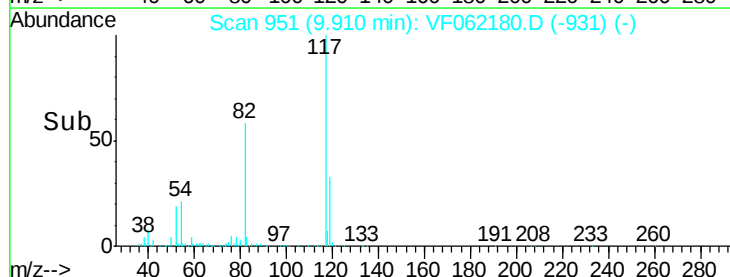
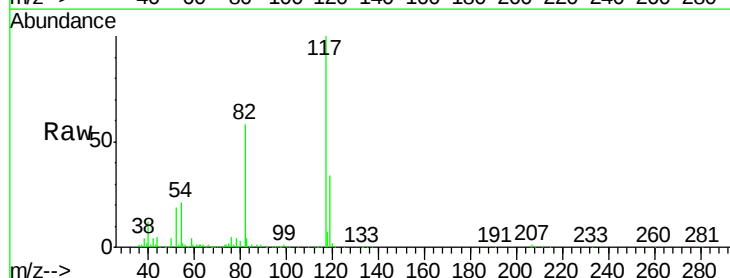
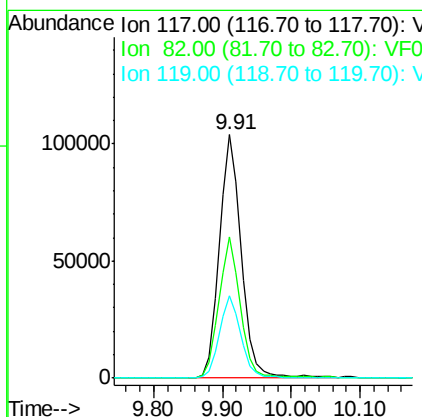
RT: 9.91 min Scan# 951

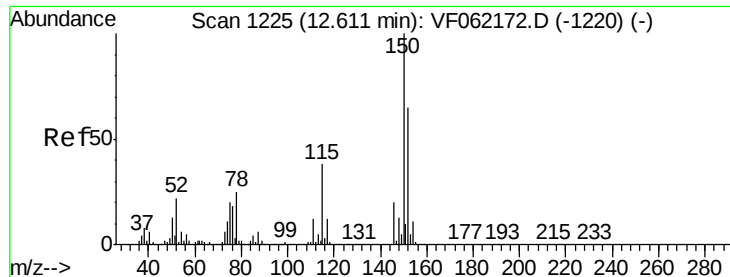
Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 229354 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 58.2  | 45.2  | 67.8   |
| 119       | 33.6  | 26.6  | 39.8   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

Instrument :

MSVOA\_F

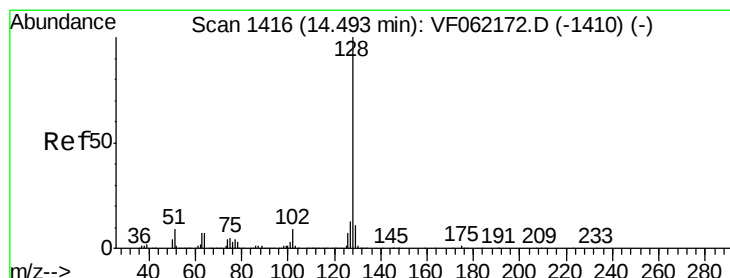
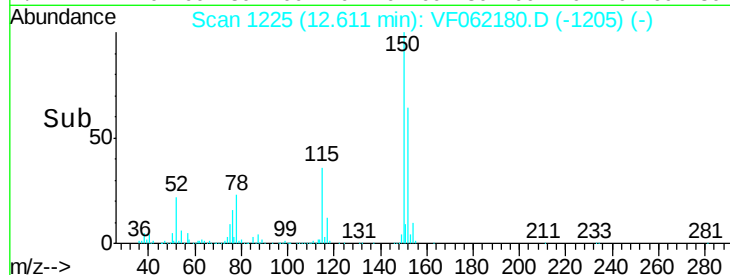
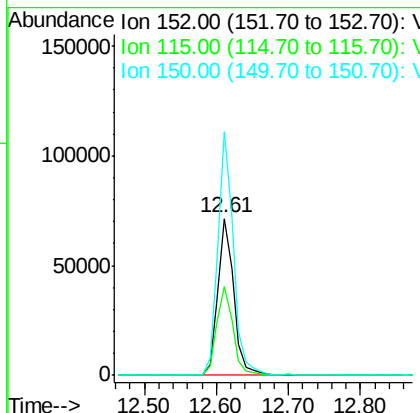
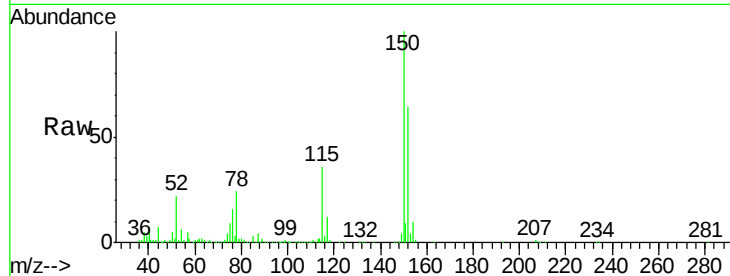
ClientSampled :

TP-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 107748 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 56.5  | 29.0  | 87.1   |
| 150       | 155.2 | 0.0   | 309.2  |

Manual Integrations  
APPROVED

MMDadoda  
4/17/2019 11:49:44 AM



#95

Naphthalene

Concen: 4.404 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VF062180.D

Acq: 16 Apr 2019 17:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 19588 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 15.7  | 10.3  | 15.5# |
| 129       | 11.2  | 9.2   | 13.8  |

