

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\  
 Data File : VF062524.D  
 Acq On : 13 May 2019 2:28  
 Operator : FY/SY  
 Sample : K2756-05  
 Misc : 5.92g/5mL/MSVOA F/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS005-1824-01

Quant Time: May 13 07:24:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.08  | 168  | 300401   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 5.80  | 114  | 406396   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 9.93  | 117  | 335206   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 189126   | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.06  | 65   | 111370   | 39.23 | ug/l   | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 78.46% |          |
| 35) Dibromofluoromethane    | 4.33  | 113  | 137969   | 42.61 | ug/l   | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 85.22% |          |
| 50) Toluene-d8              | 7.73  | 98   | 299072   | 38.16 | ug/l   | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 76.32% |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 125494   | 35.49 | ug/l   | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 70.98% |          |

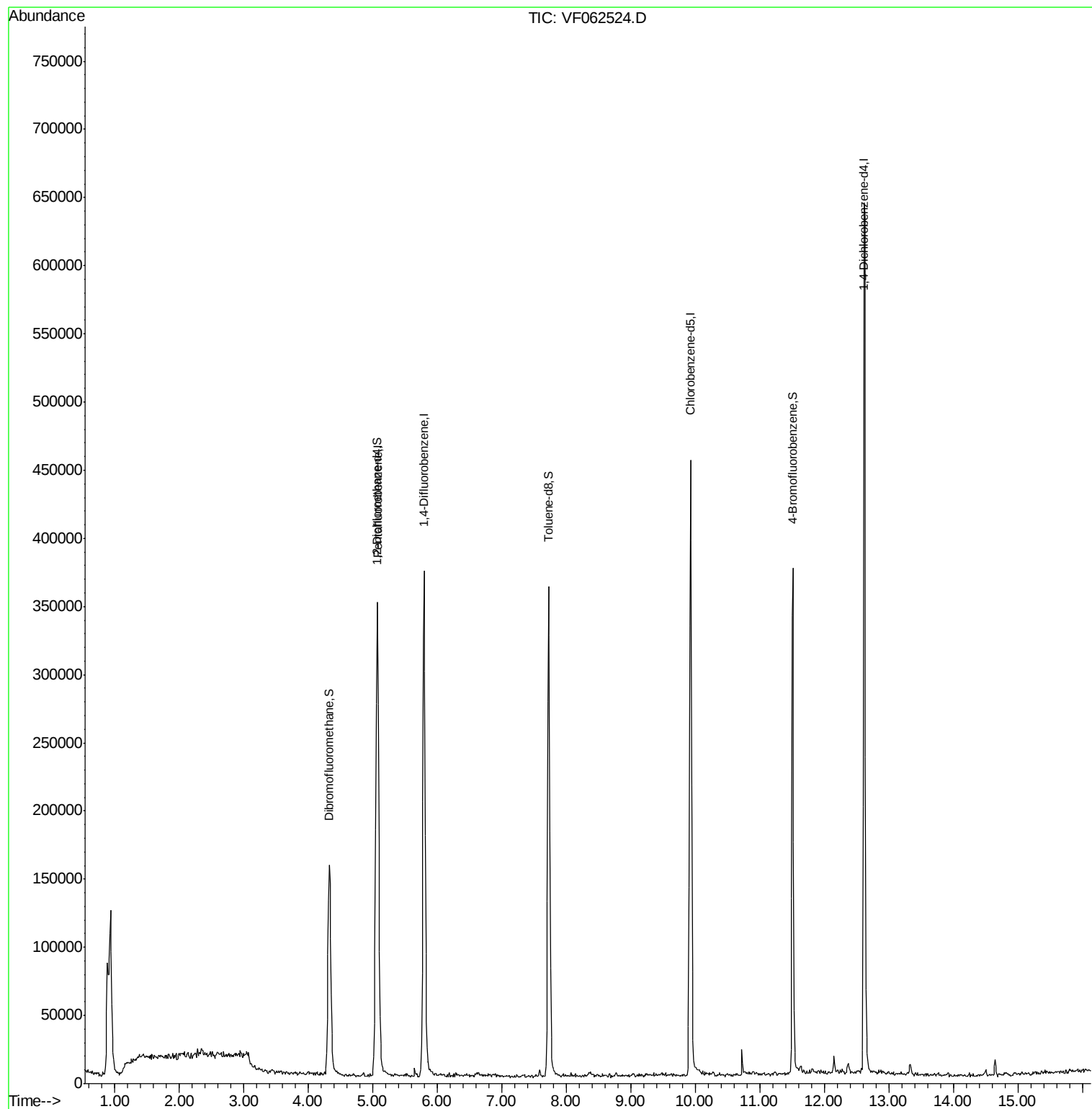
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

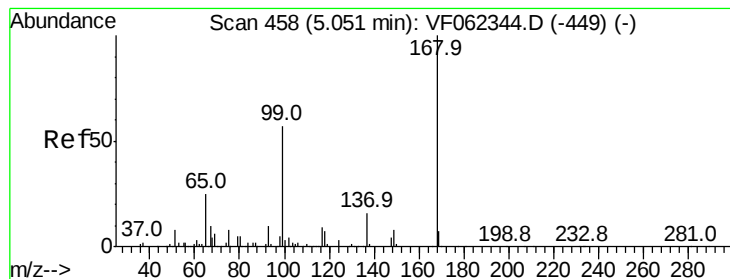
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062524.D

Acq: 13 May 2019 2:28

Instrument :

MSVOA\_F

ClientSampleId :

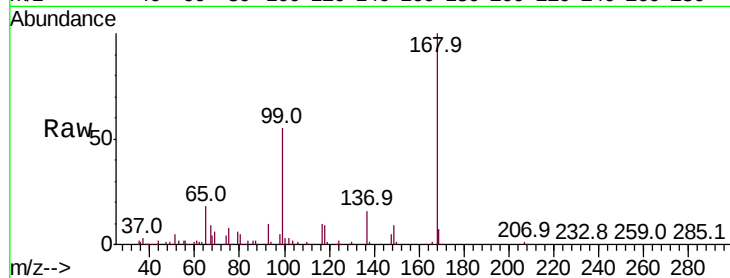
P021-SS005-1824-01

Tot Ion:168 Resp: 300401

Ion Ratio Lower Upper

168 100

99 55.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

120000

100000

80000

60000

40000

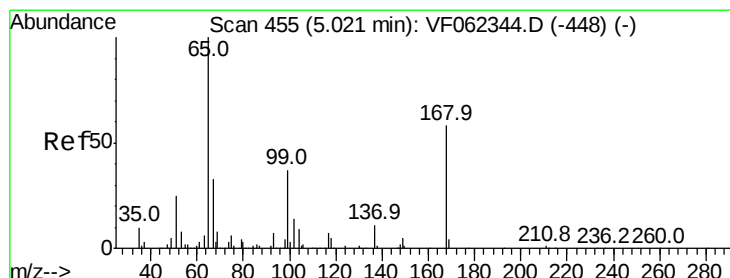
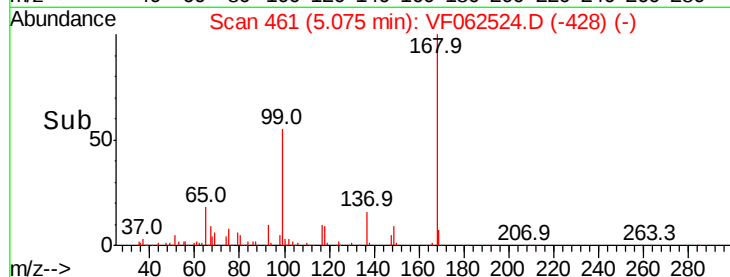
20000

0

5.08

5.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: 39.230 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062524.D

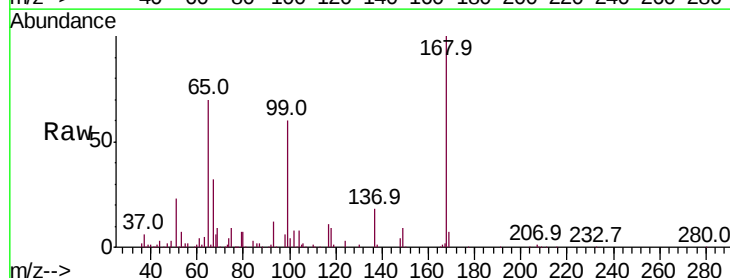
Acq: 13 May 2019 2:28

Tgt Ion: 65 Resp: 111370

Ion Ratio Lower Upper

65 100

67 45.9 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

40000

30000

20000

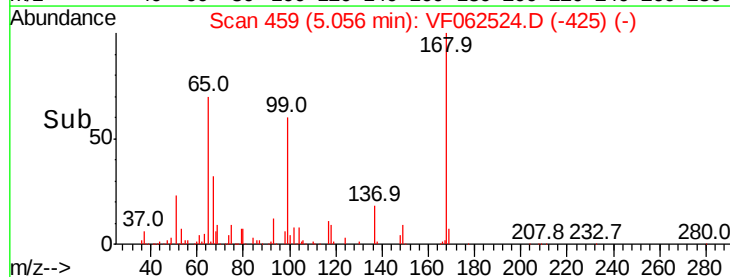
10000

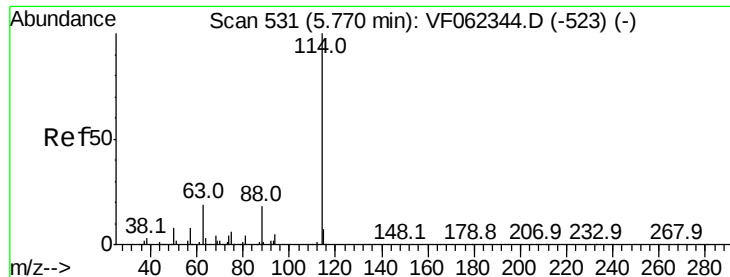
0

5.06

5.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062524.D

Acq: 13 May 2019 2:28

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS005-1824-01

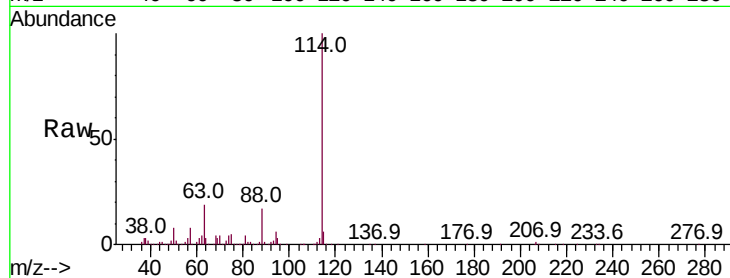
Tot Ion:114 Resp: 406396

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.4

88 17.5 0.0 36.4

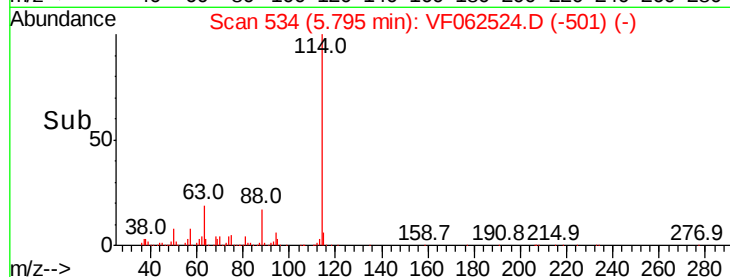


Abundance Ion 113.90 (113.60 to 114.60): V

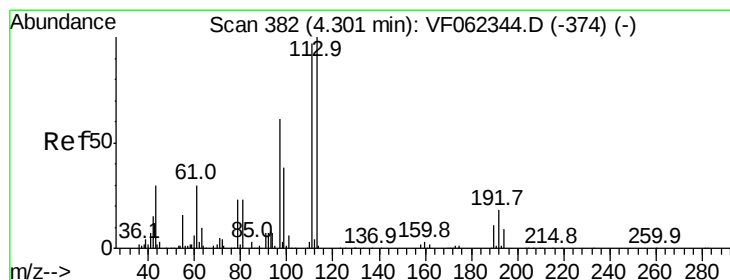
Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

5.80



Time-->



#35

Dibromofluoromethane

Concen: 42.613 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.02 min

Lab File: VF062524.D

Acq: 13 May 2019 2:28

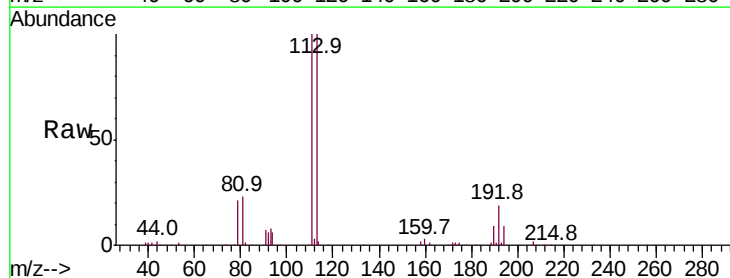
Tgt Ion:113 Resp: 137969

Ion Ratio Lower Upper

113 100

111 103.5 79.4 119.0

192 20.8 16.0 24.0

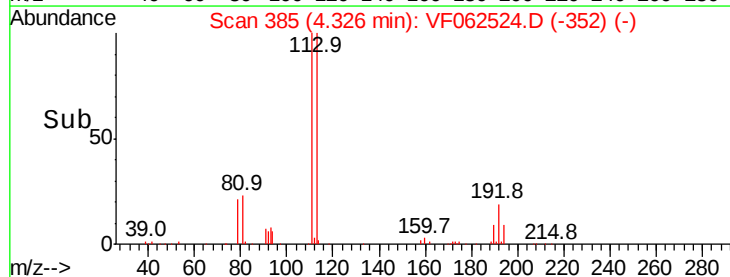


Abundance Ion 112.80 (112.50 to 113.50): V

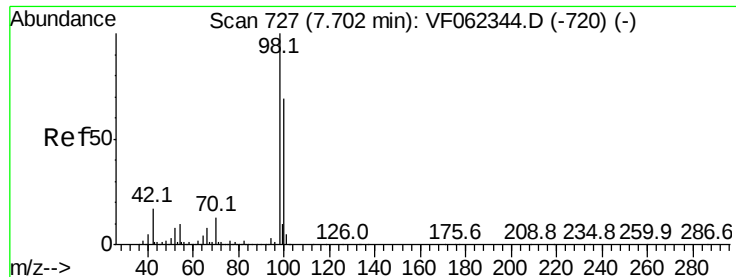
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

4.33



Time-->



#50

Toluene-d8

Concen: 38.160 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062524.D

Acq: 13 May 2019 2:28

Instrument :

MSVOA\_F

ClientSampleId :

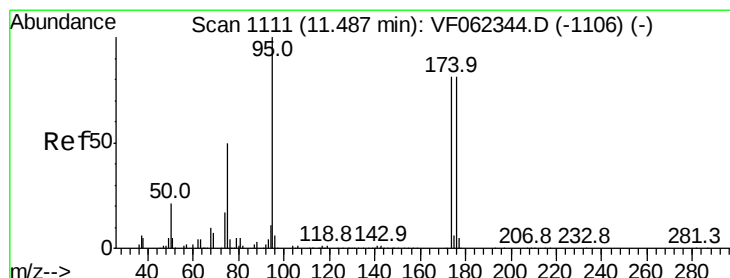
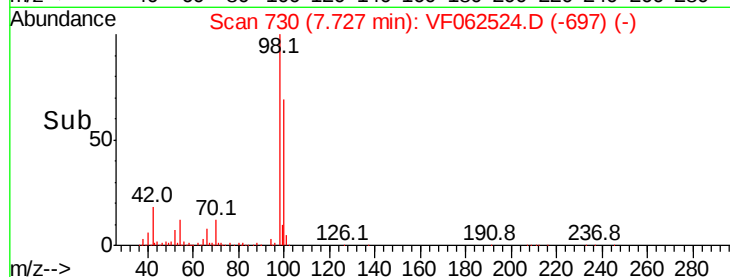
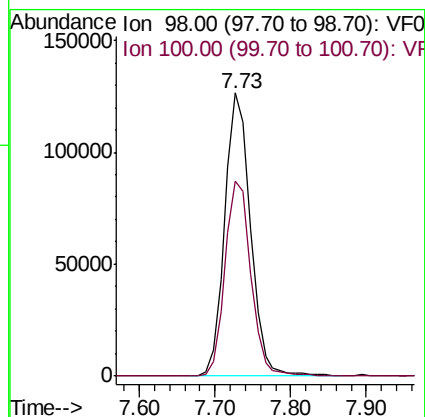
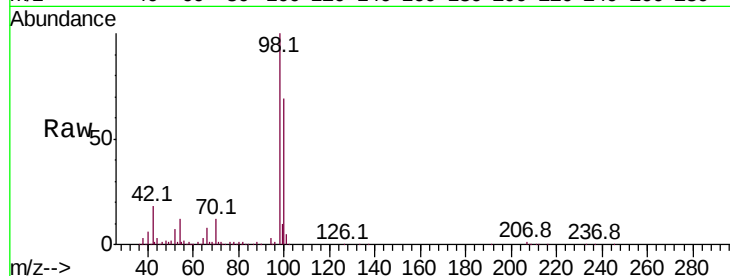
P021-SS005-1824-01

Tot Ion: 98 Resp: 299072

Ion Ratio Lower Upper

98 100

100 69.3 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 35.491 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062524.D

Acq: 13 May 2019 2:28

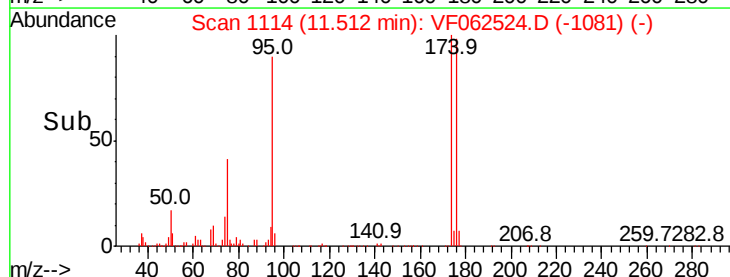
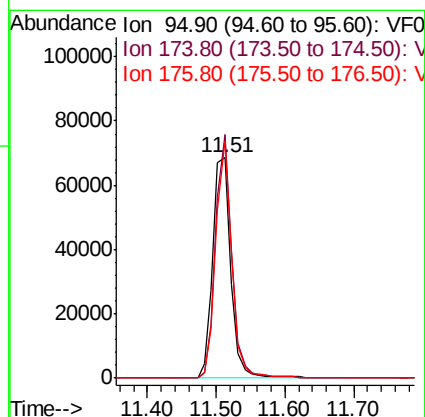
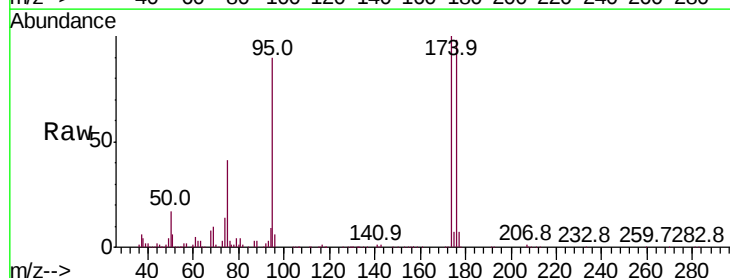
Tgt Ion: 95 Resp: 125494

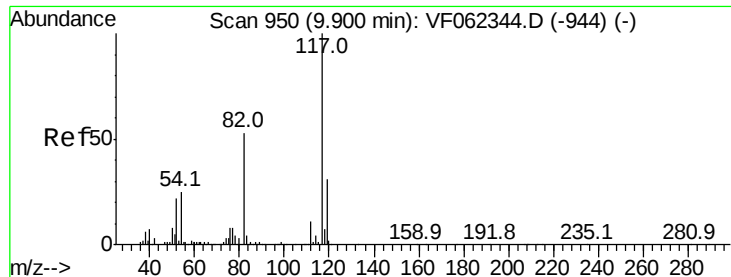
Ion Ratio Lower Upper

95 100

174 99.1 0.0 191.8

176 95.4 0.0 193.2

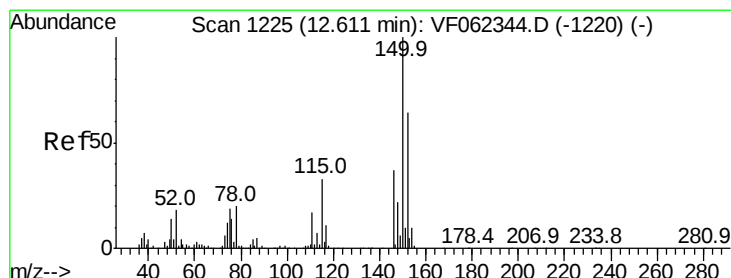
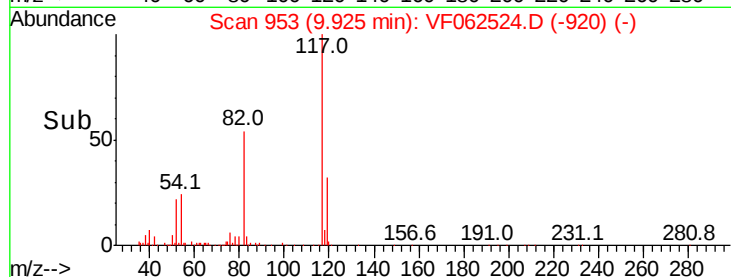
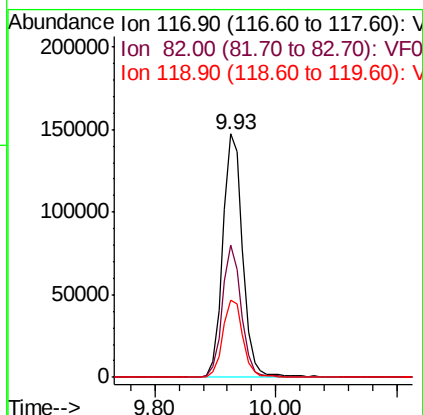
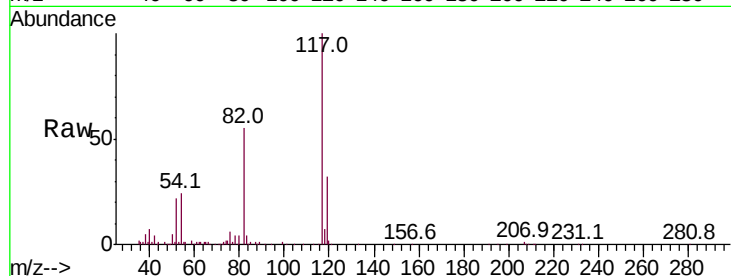




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.93 min Scan# 953  
Delta R.T. 0.02 min  
Lab File: VF062524.D  
Acq: 13 May 2019 2:28

Instrument :  
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ClientSampleId :  
P021-SS005-1824-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.5  | 42.2  | 63.2  |
| 119     | 31.6  | 25.0  | 37.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.63 min Scan# 1227  
Delta R.T. 0.02 min  
Lab File: VF062524.D  
Acq: 13 May 2019 2:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.7  | 26.4  | 79.2  |
| 150     | 151.4 | 0.0   | 335.0 |

