

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030119\  
 Data File : VX007787.D  
 Acq On : 01 Mar 2019 14:07  
 Operator : JC/SP  
 Sample : K1349-13  
 Misc : 3.14g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OR-03-022719-A

Quant Time: Mar 04 09:41:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 273474   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 423654   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 409232   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 223296   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 156237   | 46.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.24%  |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 129575   | 45.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.50%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 523215   | 48.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.52%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 199570   | 50.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.30% |          |

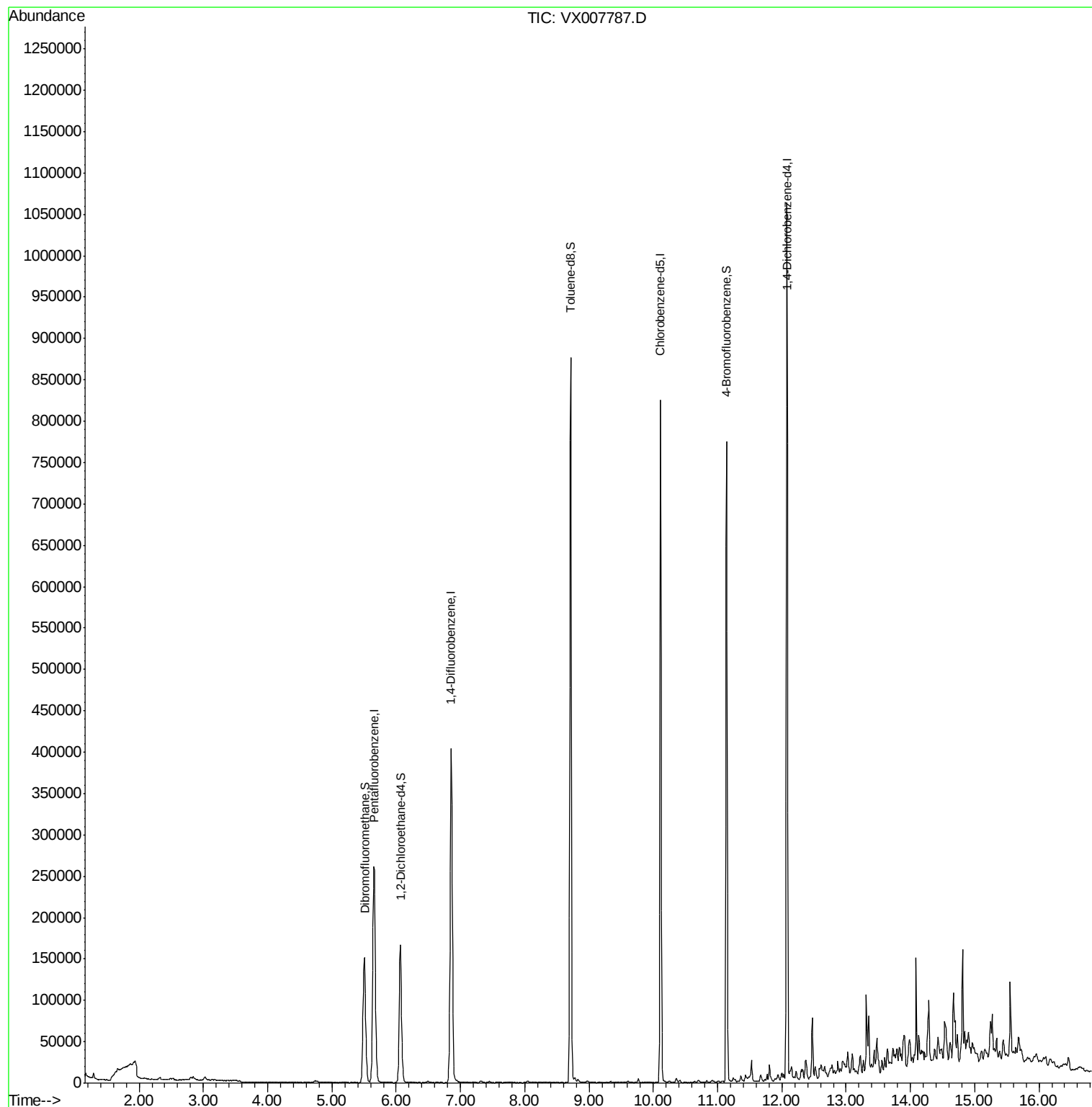
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

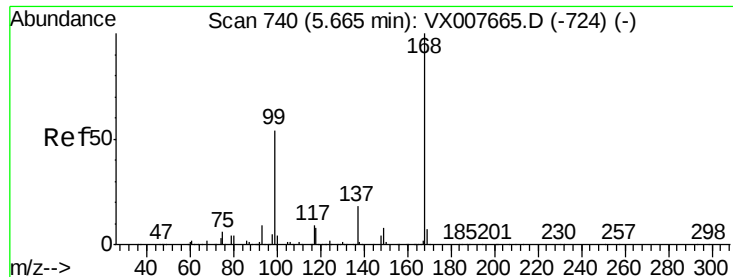
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Feb 26 01:53:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.01 min

Lab File: VX007787.D

Acq: 01 Mar 2019 14:07

Instrument :

MSVOA\_X

ClientSampleId :

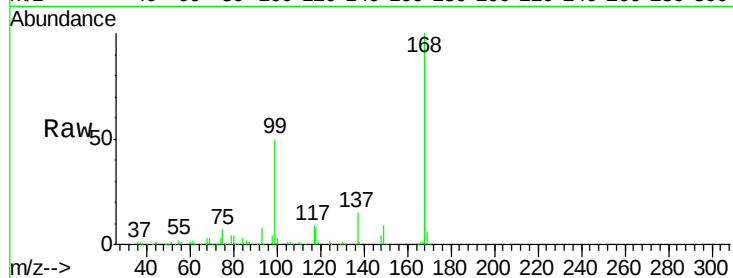
OR-03-022719-A

Tot Ion:168 Resp: 273474

Ion Ratio Lower Upper

168 100

99 49.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

100000

80000

60000

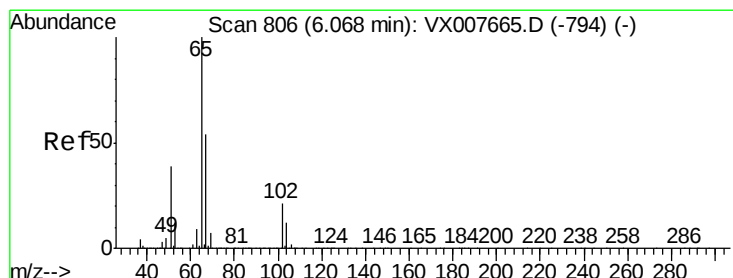
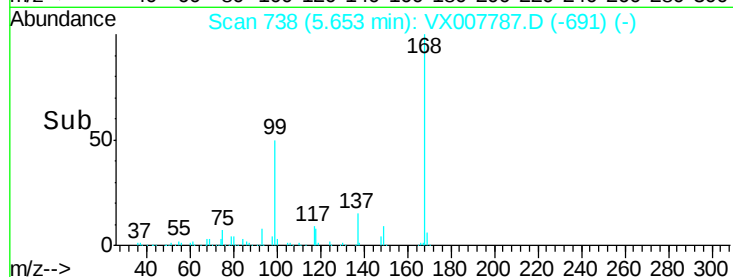
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 46.122 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007787.D

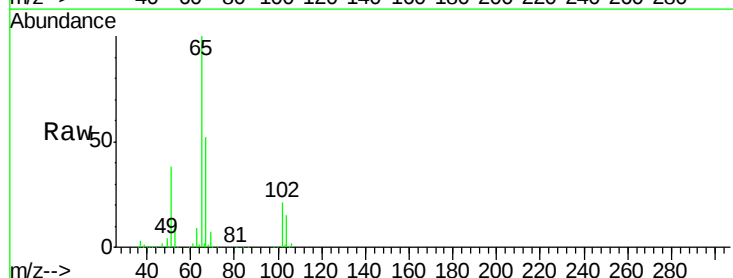
Acq: 01 Mar 2019 14:07

Tgt Ion: 65 Resp: 156237

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

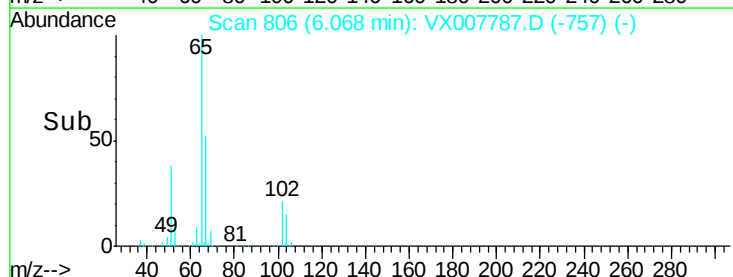
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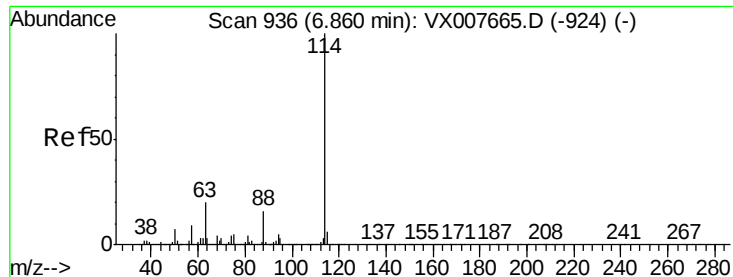
20000

0

Time-->

5.90 6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX007787.D

Acq: 01 Mar 2019 14:07

Instrument :

MSVOA\_X

ClientSampleId :

OR-03-022719-A

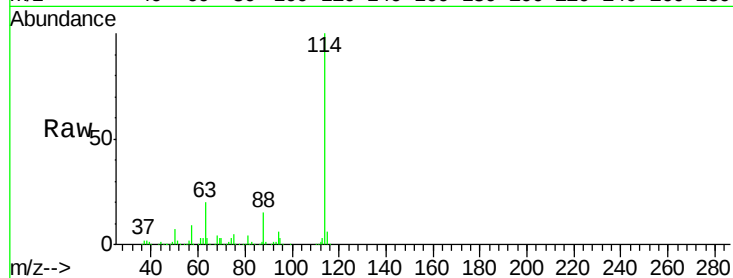
Tot Ion:114 Resp: 423654

Ion Ratio Lower Upper

114 100

63 20.3 0.0 35.6

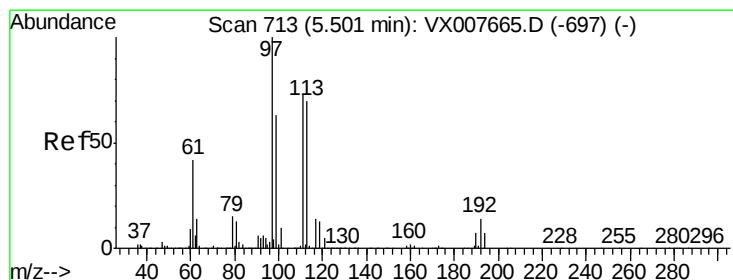
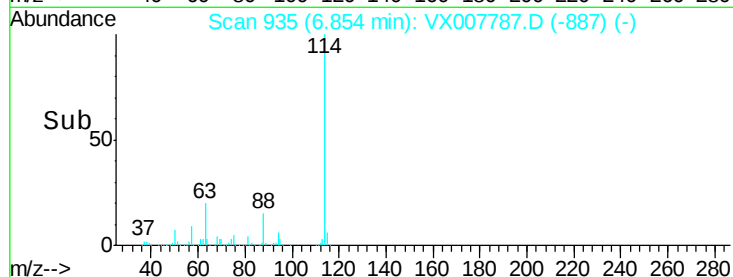
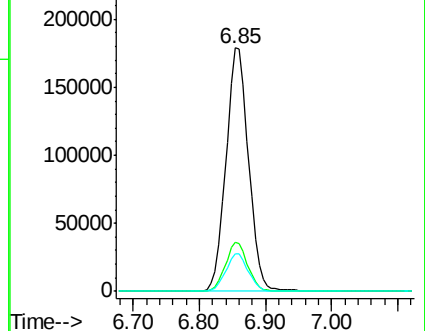
88 15.4 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.754 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007787.D

Acq: 01 Mar 2019 14:07

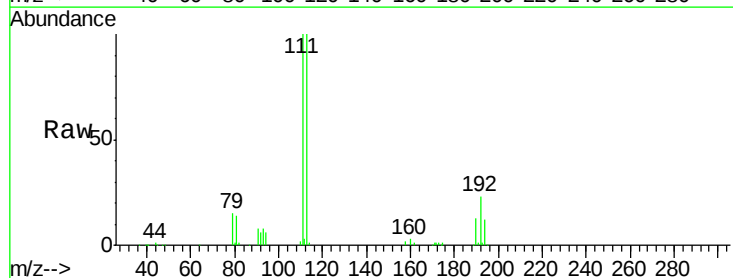
Tgt Ion:113 Resp: 129575

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.8

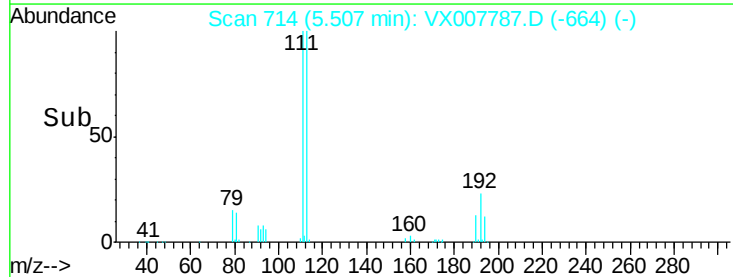
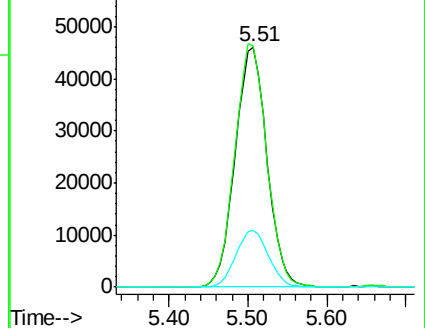
192 24.3 18.5 27.7



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

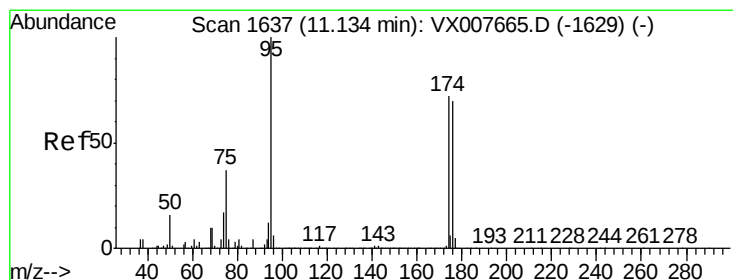
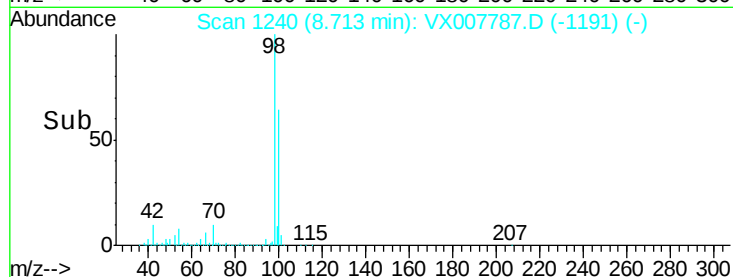
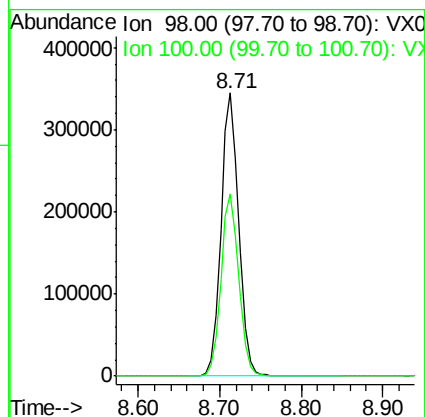
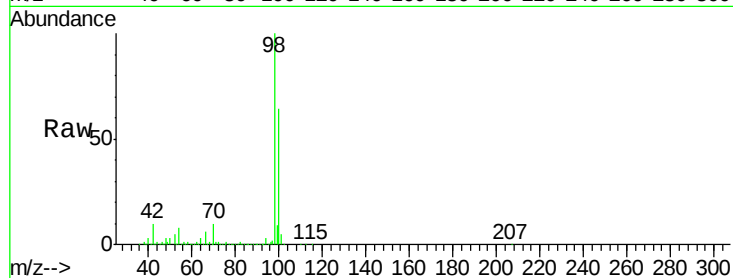




#50  
Toluene-d8  
Concen: 48.258 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX007787.D  
Acq: 01 Mar 2019 14:07

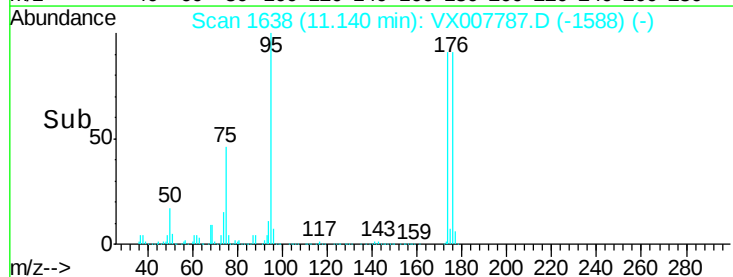
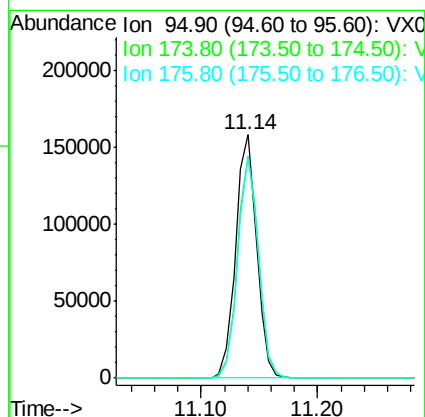
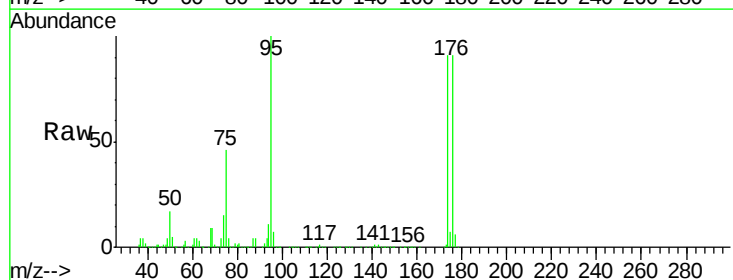
Instrument :  
MSVOA\_X  
ClientSampleId :  
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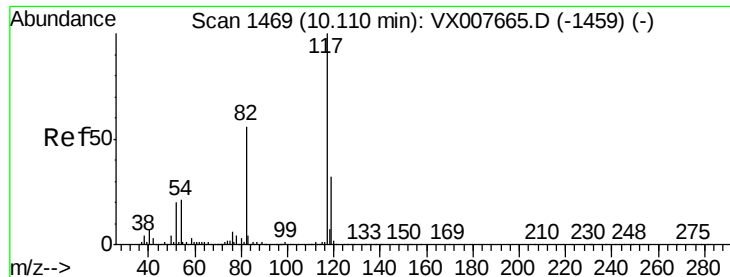
Tot Ion: 98 Resp: 523215  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 50.151 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. 0.01 min  
Lab File: VX007787.D  
Acq: 01 Mar 2019 14:07

Tgt Ion: 95 Resp: 199570  
Ion Ratio Lower Upper  
95 100  
174 91.7 0.0 189.2  
176 89.4 0.0 186.2

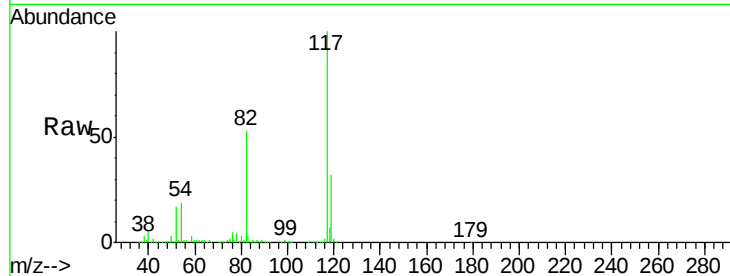




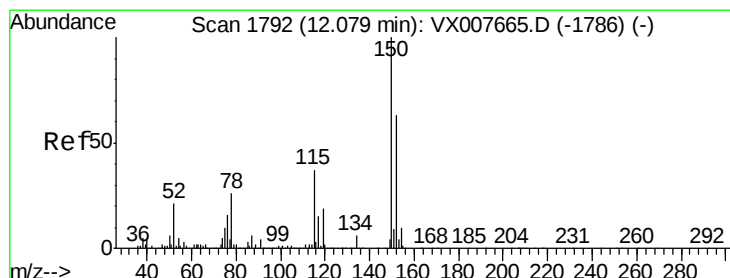
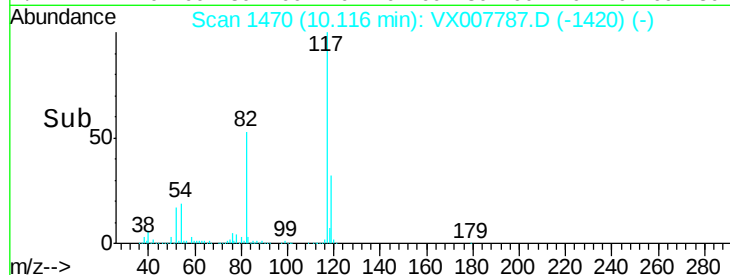
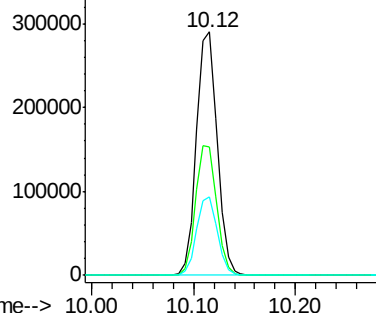
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX007787.D  
Acq: 01 Mar 2019 14:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-03-022719-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.6  | 42.1  | 63.1  |
| 119     | 32.3  | 26.5  | 39.7  |

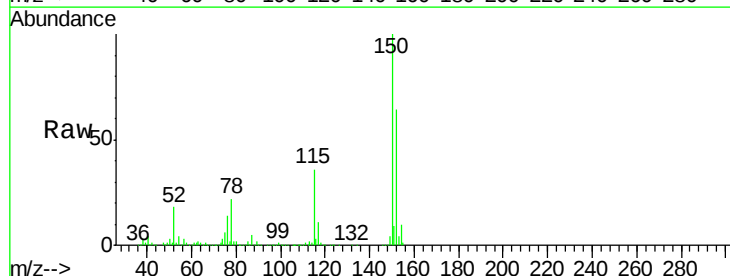


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX007787.D  
Acq: 01 Mar 2019 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.8  | 38.0  | 114.0 |
| 150     | 156.0 | 0.0   | 346.4 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

