

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX060718\  
 Data File : VX002385.D  
 Acq On : 07 Jun 2018 18:34  
 Operator : JC/MD  
 Sample : J3340-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF5-0069

Quant Time: Jun 08 02:16:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 231669   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 339055   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 307687   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 169267   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 176718   | 53.59 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.18% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 133441   | 50.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.10% |      |
| 50) Toluene-d8              | 8.72   | 98  | 525015   | 51.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.74% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 180427   | 45.78 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.56%  |      |

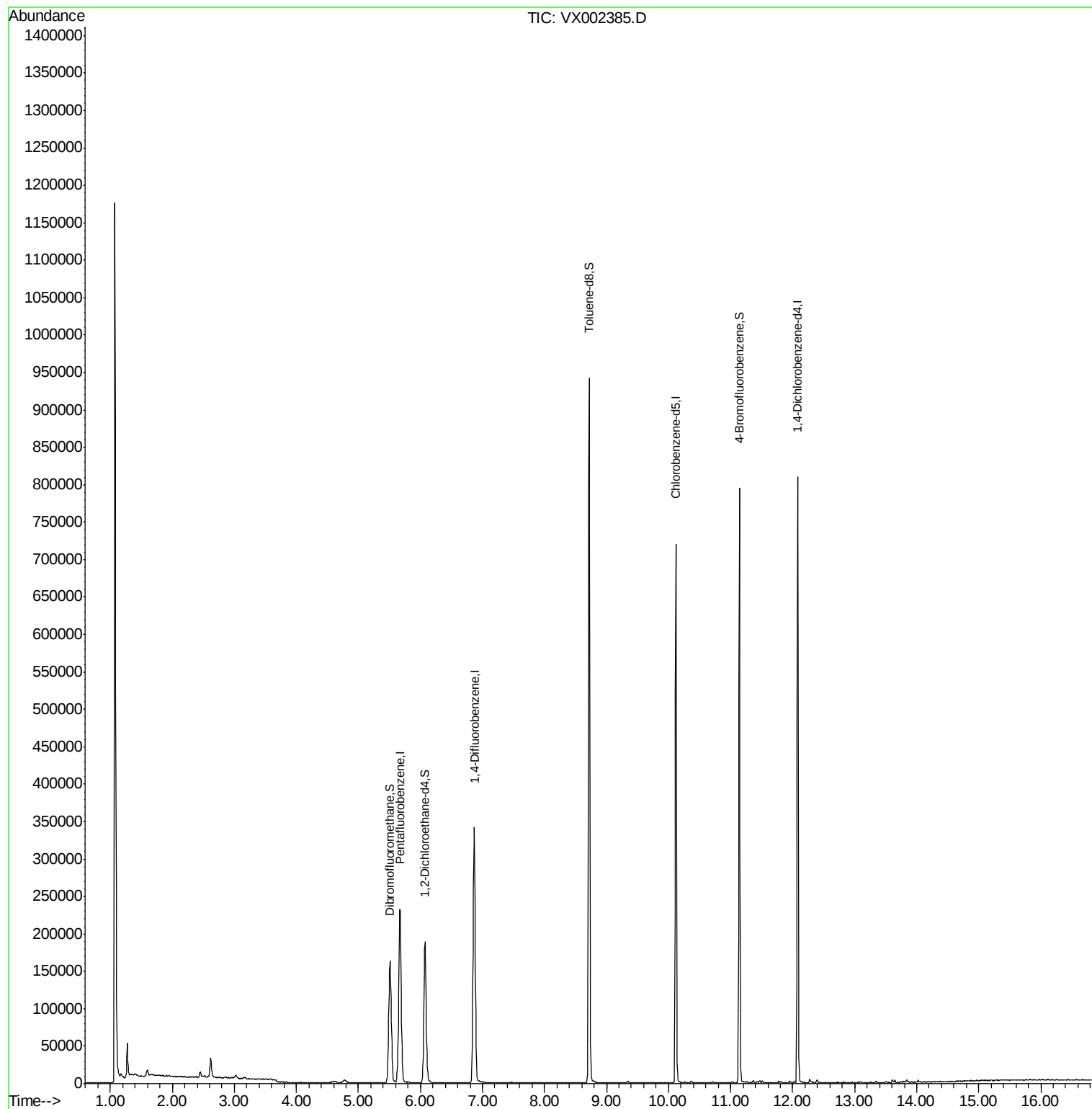
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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LF5-0069

Quant Time: Jun 08 02:16:16 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

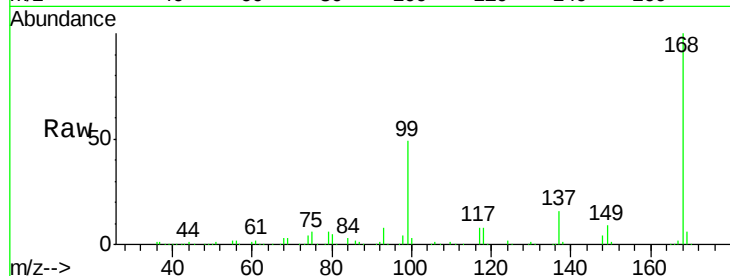
LF5-0069

Tgt Ion:168 Resp: 231669

Ion Ratio Lower Upper

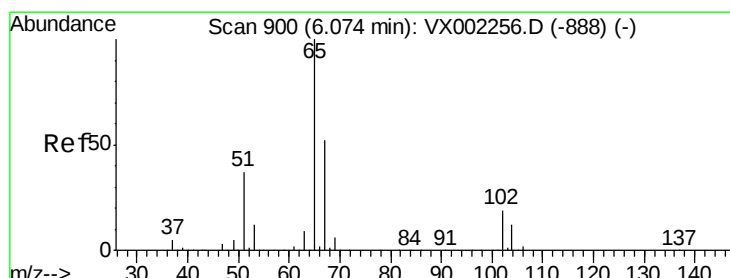
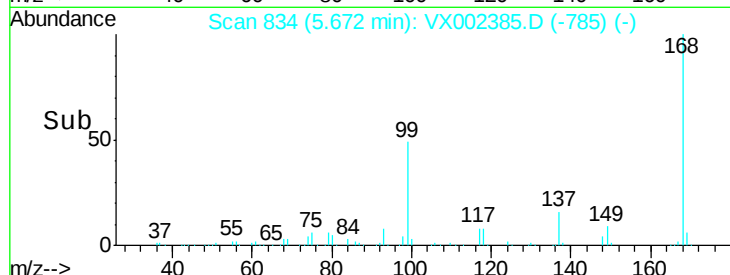
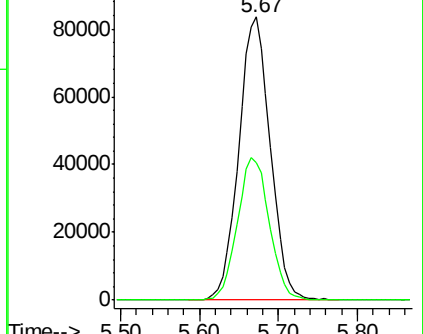
168 100

99 48.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.591 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002385.D

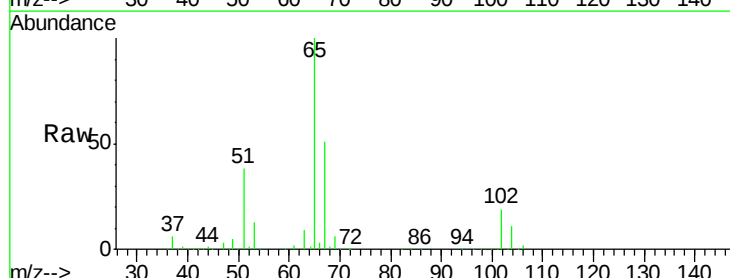
Acq: 07 Jun 2018 18:34

Tgt Ion: 65 Resp: 176718

Ion Ratio Lower Upper

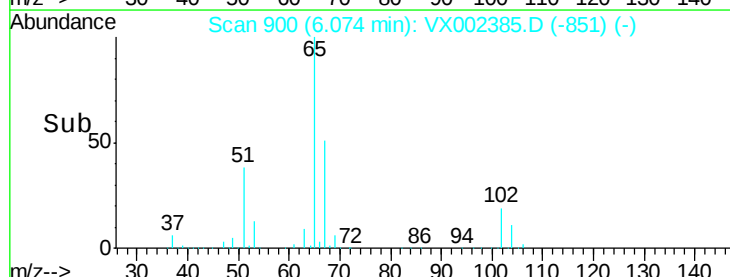
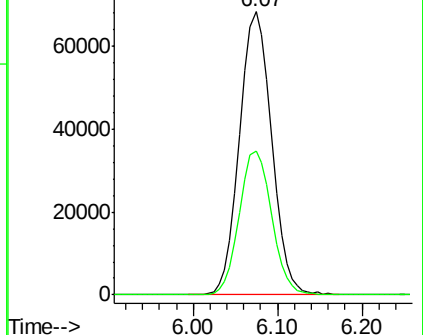
65 100

67 51.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

LF5-0069

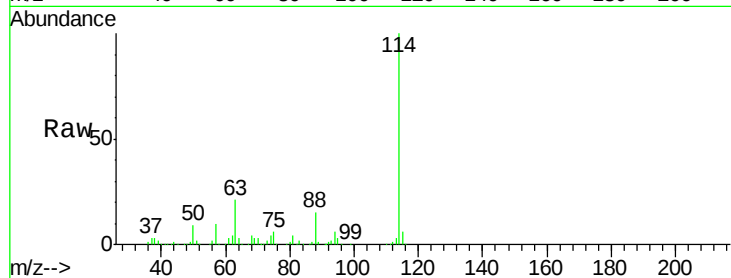
Tgt Ion:114 Resp: 339055

Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.4

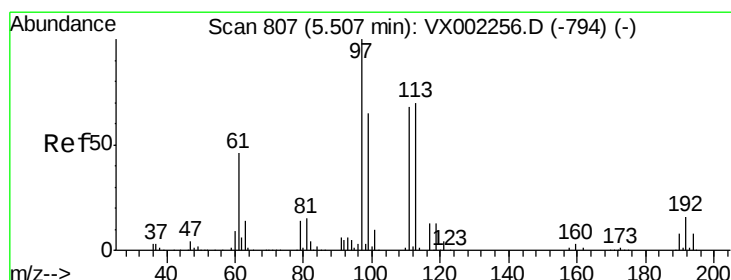
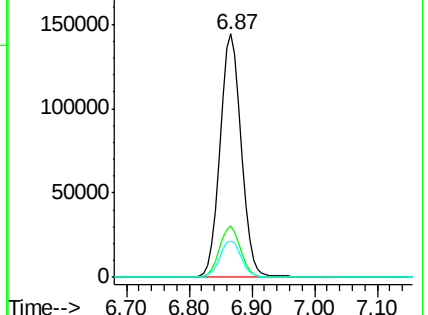
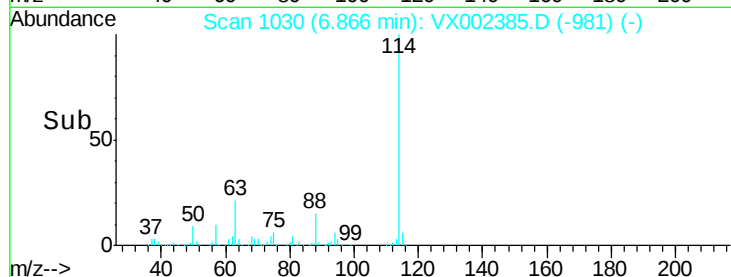
88 14.8 0.0 30.0



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: 50.046 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

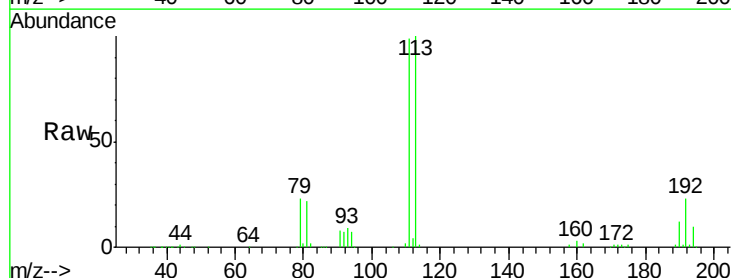
Tgt Ion:113 Resp: 133441

Ion Ratio Lower Upper

113 100

111 100.8 81.4 122.0

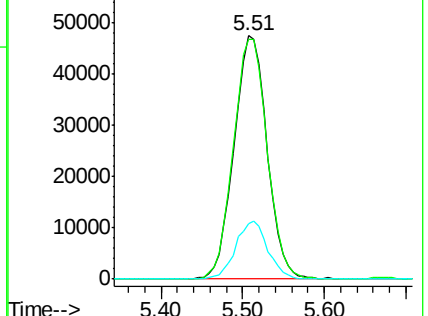
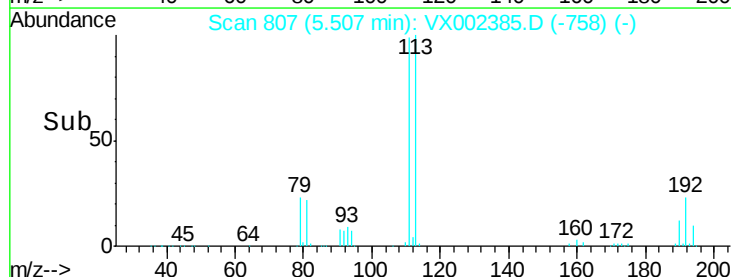
192 23.2 19.1 28.7

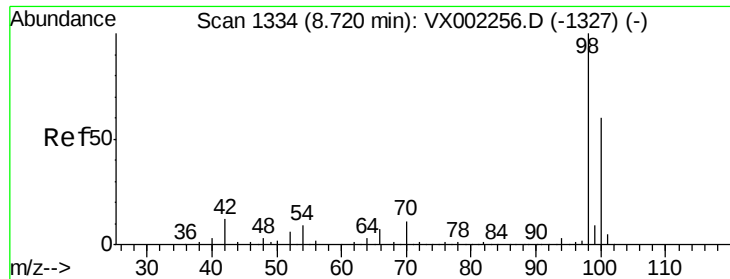


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 51.371 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

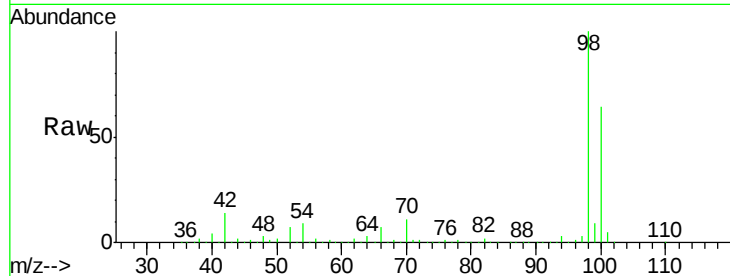
LF5-0069

Tgt Ion: 98 Resp: 525015

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

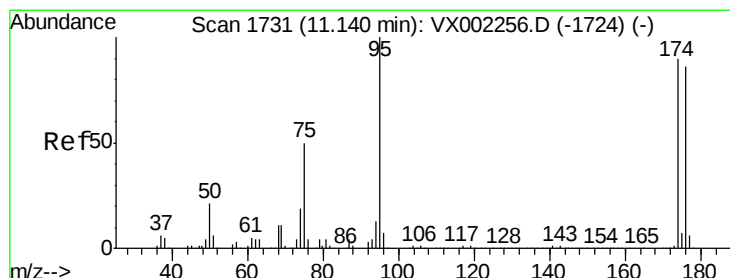
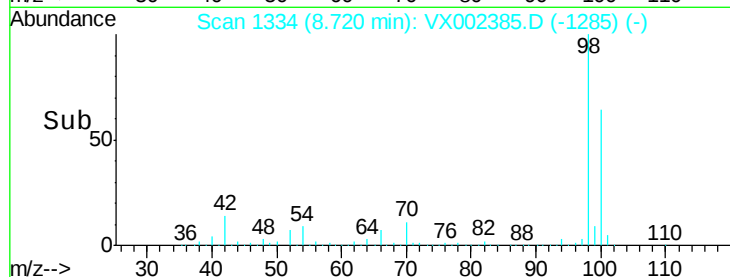
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.782 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002385.D

Acq: 07 Jun 2018 18:34

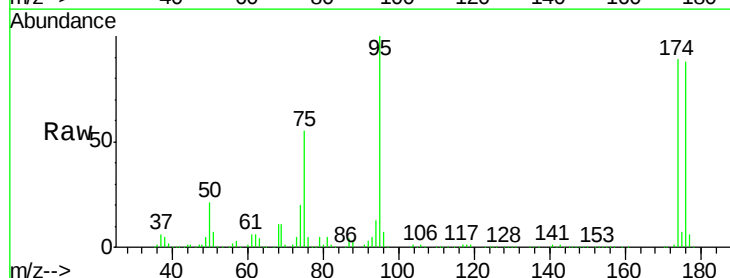
Tgt Ion: 95 Resp: 180427

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.4

176 90.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

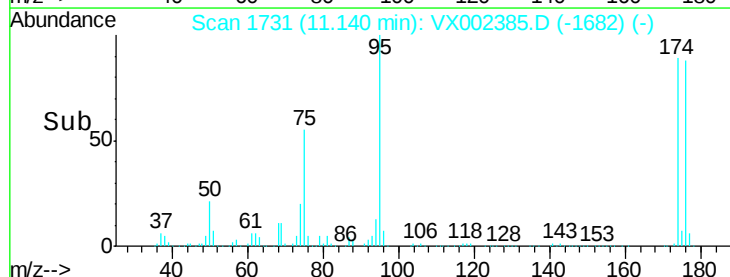
150000

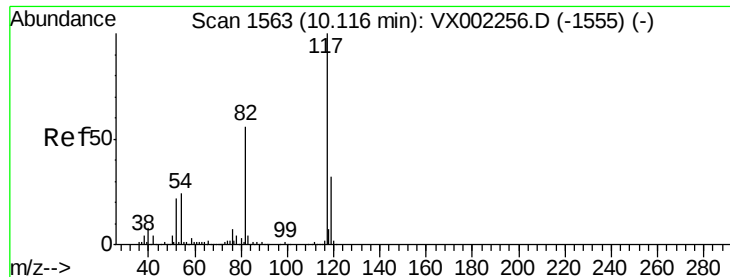
100000

50000

0

Time-->

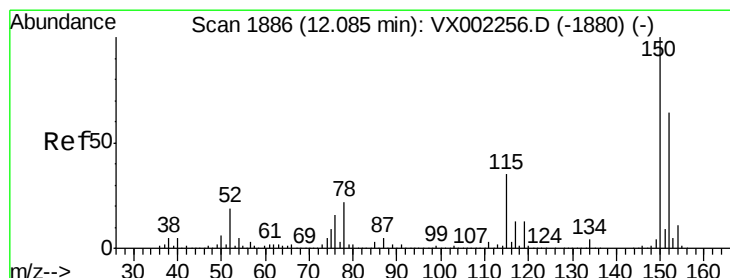
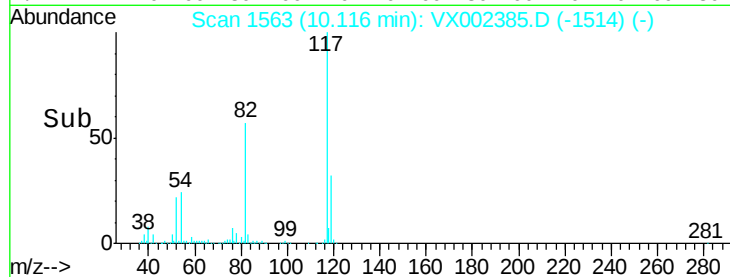
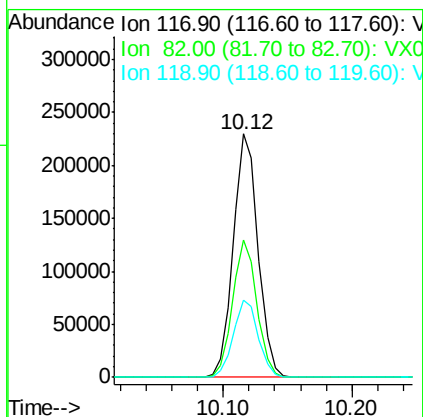
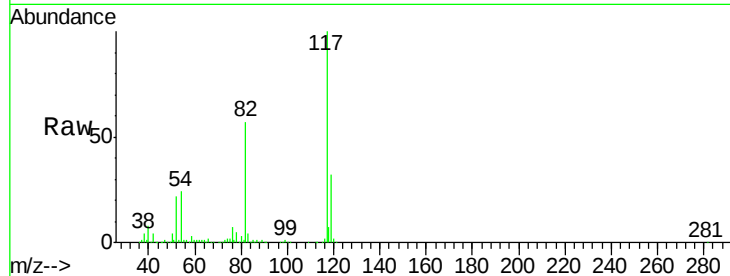




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002385.D  
Acq: 07 Jun 2018 18:34

Instrument :  
MSVOA\_X  
ClientSampled :  
LF5-0069

Tgt Ion:117 Resp: 307687  
Ion Ratio Lower Upper  
117 100  
82 56.6 45.0 67.4  
119 31.7 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX002385.D  
Acq: 07 Jun 2018 18:34

Tgt Ion:152 Resp: 169267  
Ion Ratio Lower Upper  
152 100  
115 55.5 40.1 120.2  
150 156.1 0.0 347.2

