

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090519\  
 Data File : VX012107.D  
 Acq On : 05 Sep 2019 18:06  
 Operator : SY/SP  
 Sample : K4545-06RE  
 Misc : 5.14g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T16-17-E3-(2.25)RE

Quant Time: Sep 06 06:48:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

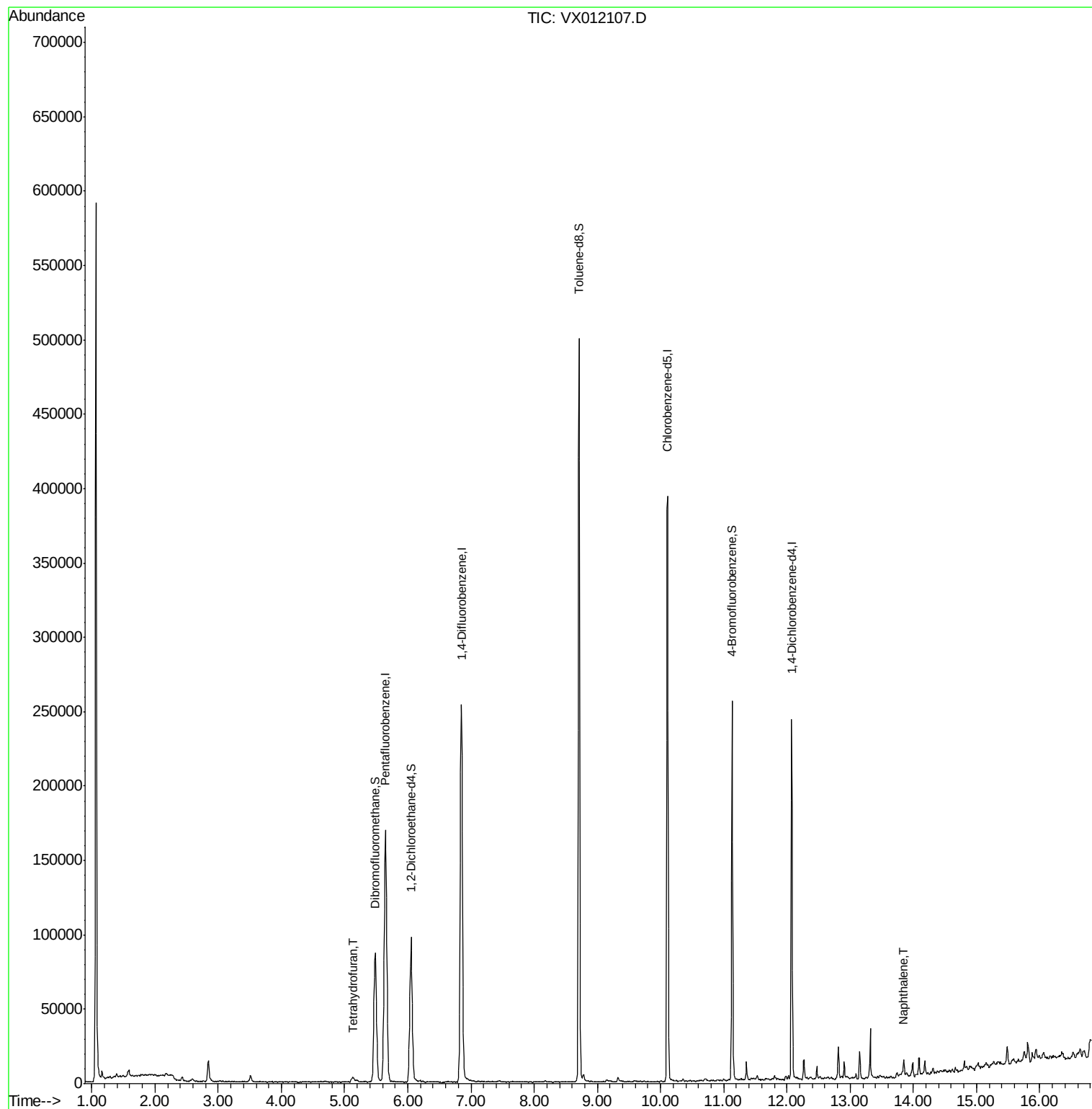
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 142841   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 244239   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 171801   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.07 | 152  | 43780    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 96923    | 49.18 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.36%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 74041    | 49.29 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.58%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 277706   | 50.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.78% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 73866    | 28.82 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 57.64%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 29) Tetrahydrofuran         | 5.13  | 42   | 3536     | 9.787 | ug/l #  | 90       |
| 95) Naphthalene             | 13.83 | 128  | 2058     | 1.030 | ug/l #  | 96       |

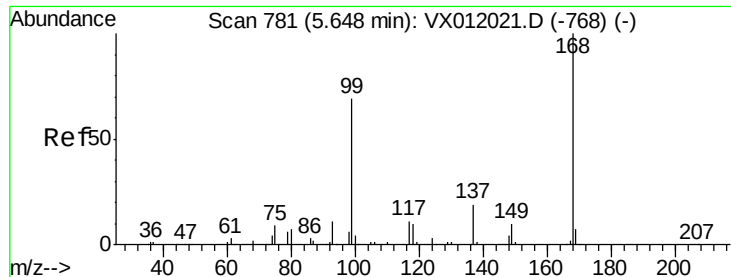
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K4545-06RE  
Misc : 5.14g/5.0mL/MSVOA X/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T16-17-E3-(2.25)RE

Quant Time: Sep 06 06:48:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012107.D

Acq: 05 Sep 2019 18:06

Instrument :

MSVOA\_X

ClientSampleId :

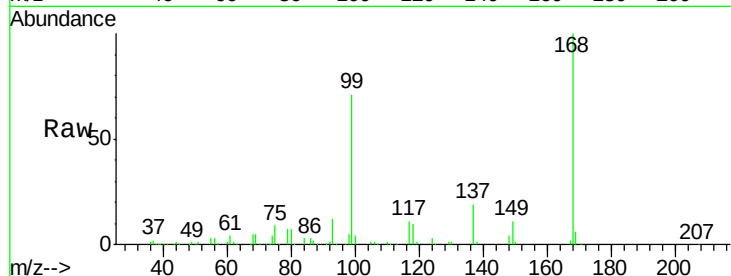
T16-17-E3-(2.25)RE

Tot Ion:168 Resp: 142841

Ion Ratio Lower Upper

168 100

99 71.4 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

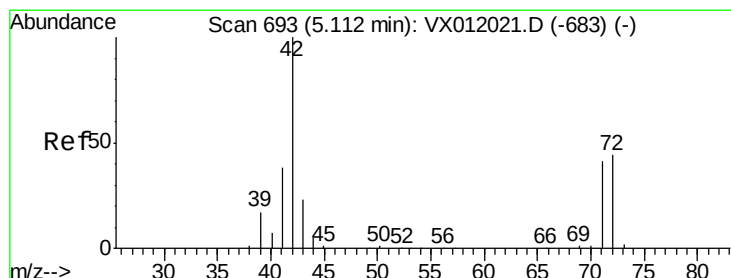
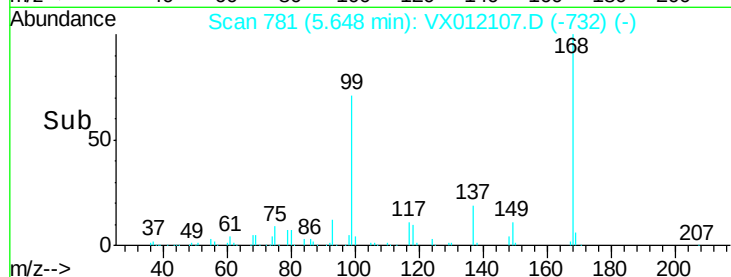
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#29

Tetrahydrofuran

Concen: 9.787 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX012107.D

Acq: 05 Sep 2019 18:06

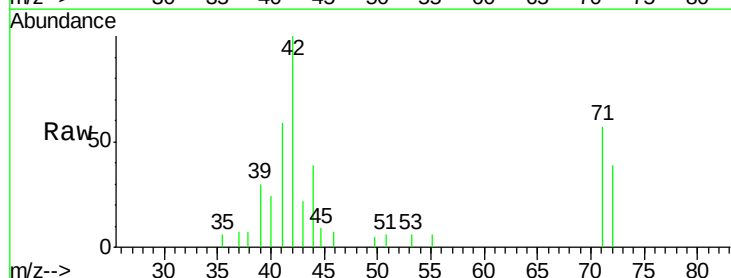
Tgt Ion: 42 Resp: 3536

Ion Ratio Lower Upper

42 100

72 36.1 37.0 55.4#

71 39.4 33.8 50.8



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

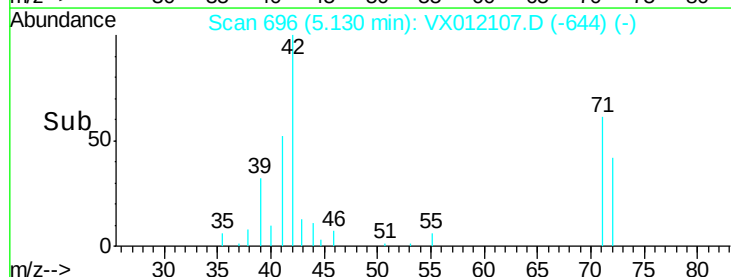
5.13

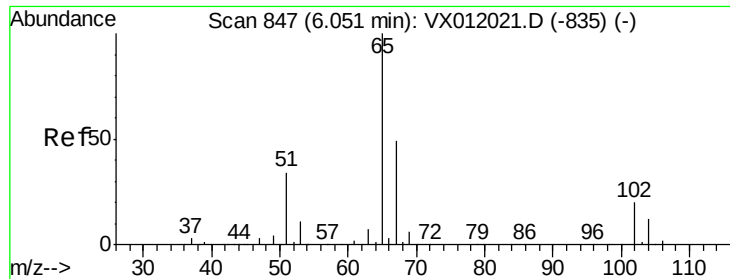
1000

500

0

Time--> 5.00 5.10 5.20

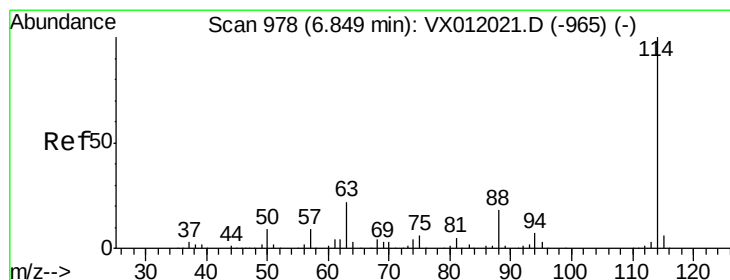
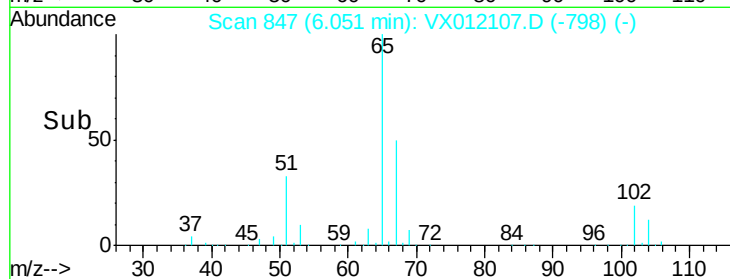
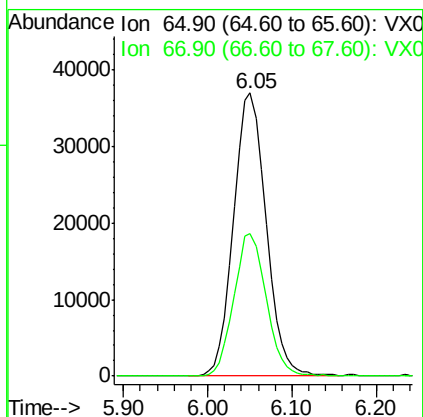
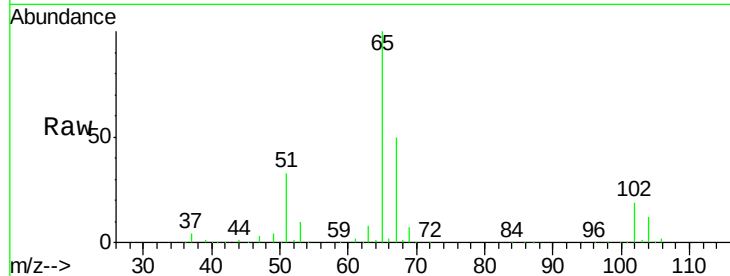




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.176 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: VX012107.D  
 Acq: 05 Sep 2019 18:06

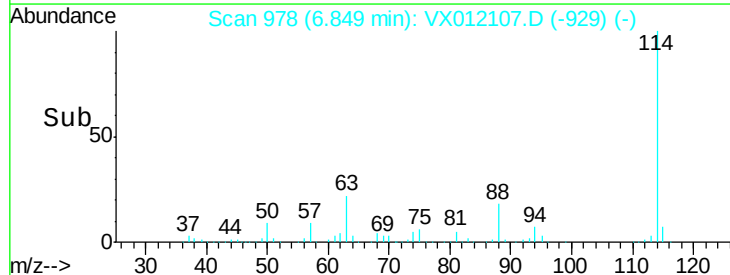
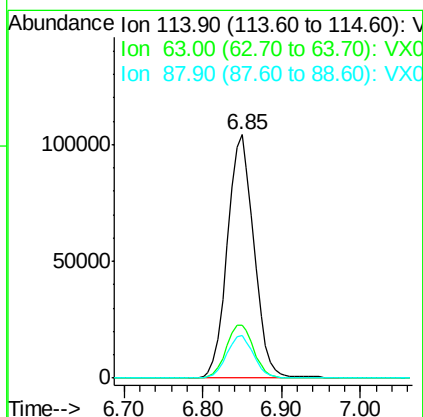
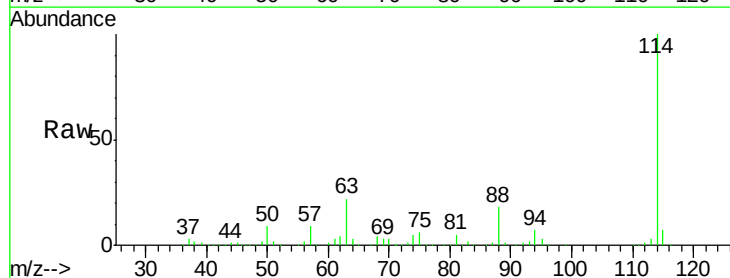
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T16-17-E3-(2.25)RE

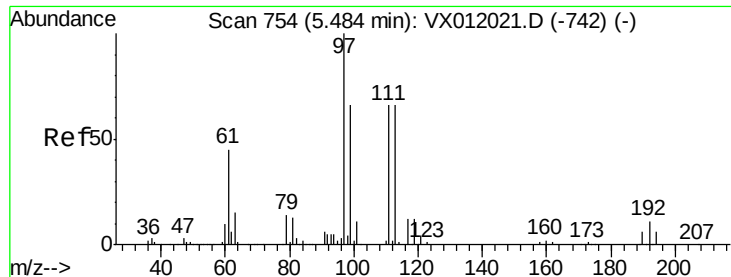
Tot Ion: 65 Resp: 96923  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012107.D  
 Acq: 05 Sep 2019 18:06

Tgt Ion: 114 Resp: 244239  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 37.4  
 88 17.7 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.295 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012107.D

Acq: 05 Sep 2019 18:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
T16-17-E3-(2.25)RE

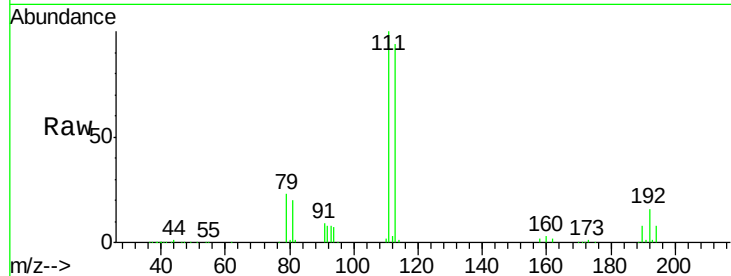
Tot Ion:113 Resp: 74041

Ion Ratio Lower Upper

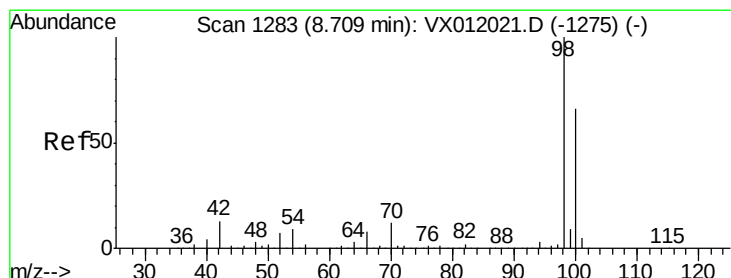
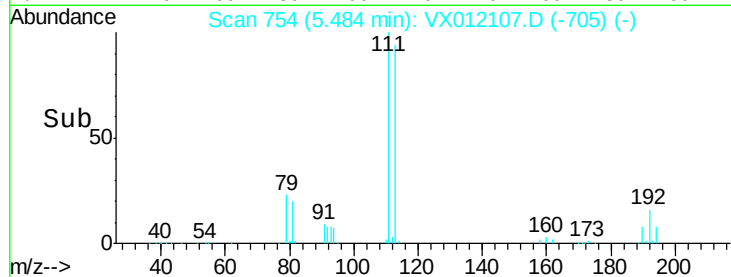
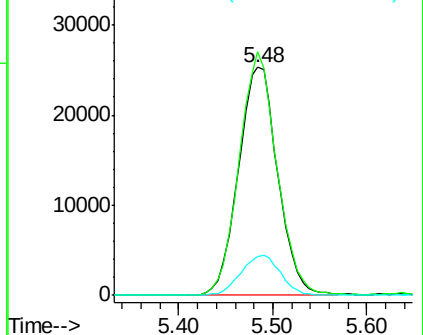
113 100

111 102.2 81.7 122.5

192 17.6 22.5 33.7#



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: 50.385 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012107.D

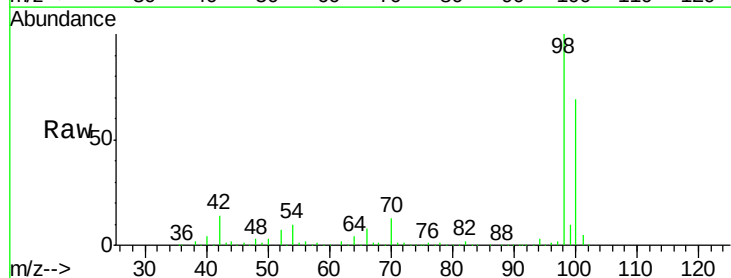
Acq: 05 Sep 2019 18:06

Tgt Ion: 98 Resp: 277706

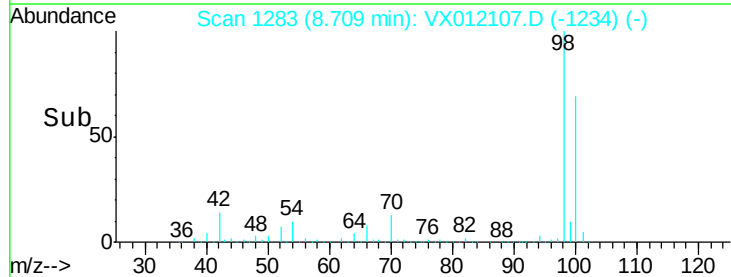
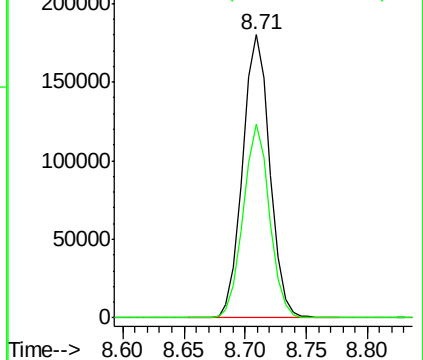
Ion Ratio Lower Upper

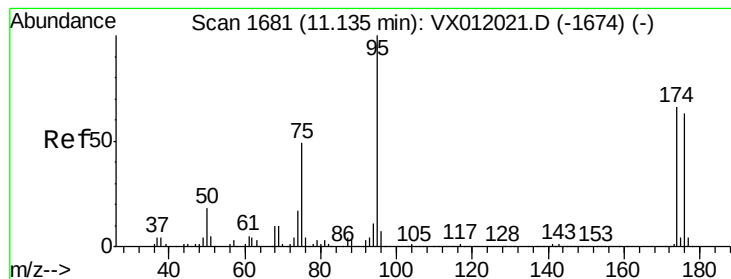
98 100

100 66.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 28.817 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012107.D

Acq: 05 Sep 2019 18:06

Instrument :

MSVOA\_X

ClientSampleId :

T16-17-E3-(2.25)RE

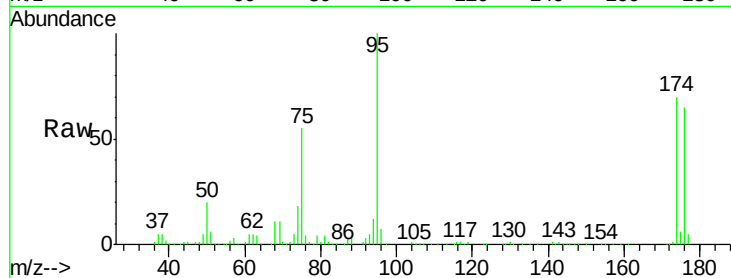
Tot Ion: 95 Resp: 73866

Ion Ratio Lower Upper

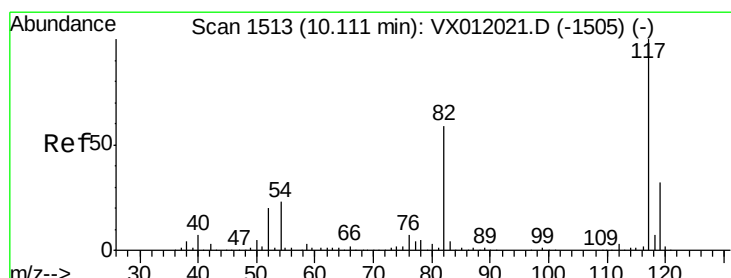
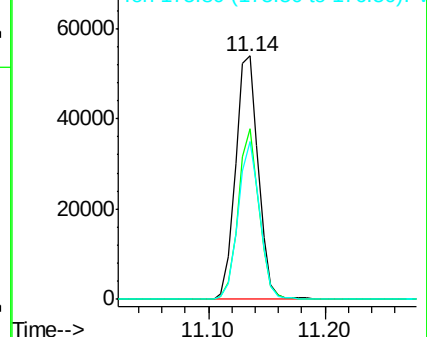
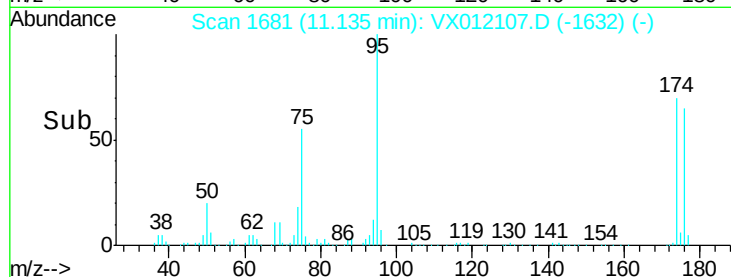
95 100

174 64.2 0.0 205.4

176 61.2 0.0 201.8



Abundance Ion 94.90 (94.60 to 95.60): VX012107.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012107.D

Acq: 05 Sep 2019 18:06

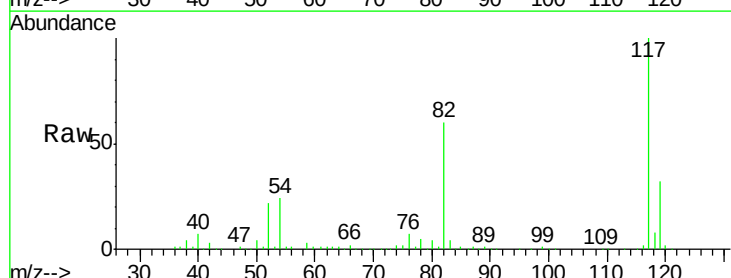
Tgt Ion: 117 Resp: 171801

Ion Ratio Lower Upper

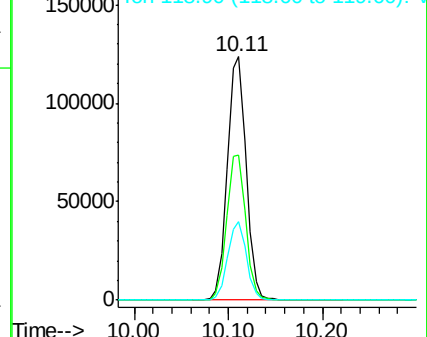
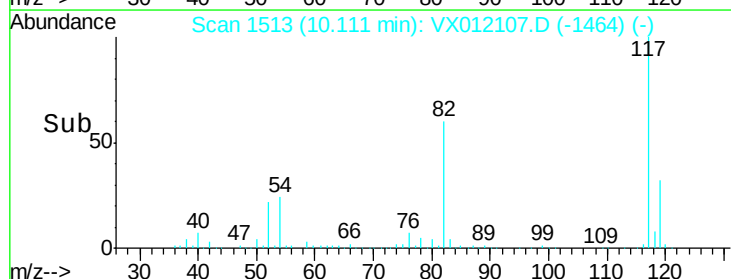
117 100

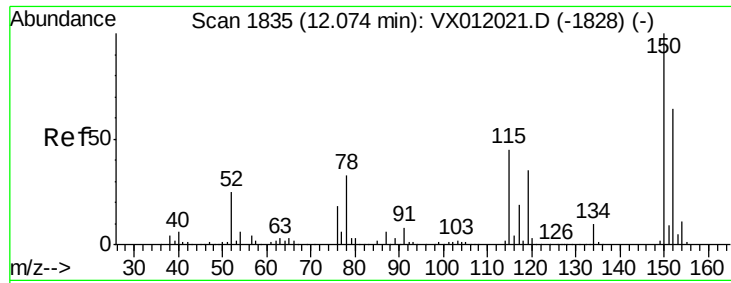
82 59.6 39.4 59.0#

119 32.4 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): VX012107.D (-1464) (-)

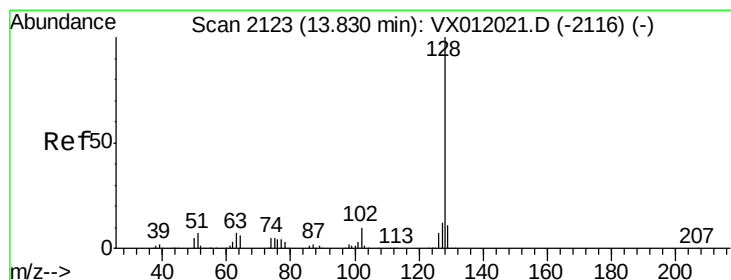
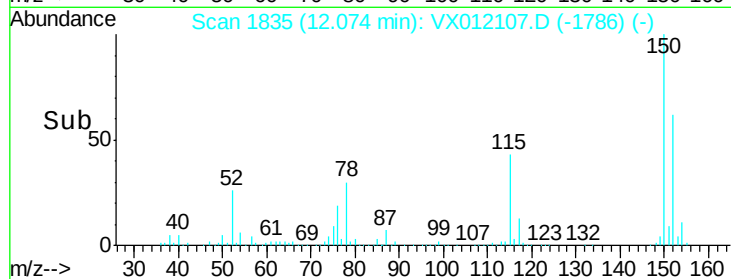
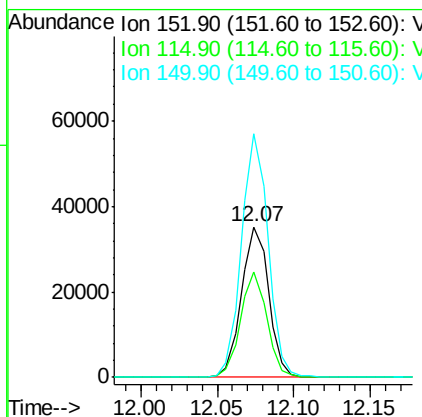
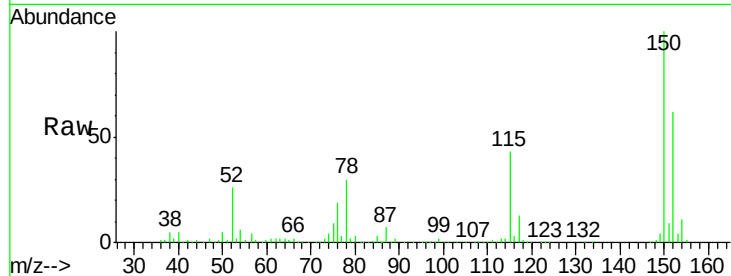




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.07 min Scan# 1835  
 Delta R.T. -0.00 min  
 Lab File: VX012107.D  
 Acq: 05 Sep 2019 18:06

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T16-17-E3-(2.25)RE

Tot Ion:152 Resp: 43780  
 Ion Ratio Lower Upper  
 152 100  
 115 67.6 36.4 109.3  
 150 158.0 0.0 341.2



#95  
 Naphthalene  
 Concen: 1.030 ug/l  
 RT: 13.83 min Scan# 2123  
 Delta R.T. -0.00 min  
 Lab File: VX012107.D  
 Acq: 05 Sep 2019 18:06

Tgt Ion:128 Resp: 2058  
 Ion Ratio Lower Upper  
 128 100  
 127 14.1 10.5 15.7  
 129 13.6 8.8 13.2#

