

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090119\  
 Data File : VX011993.D  
 Acq On : 01 Sep 2019 15:40  
 Operator : SY/SP  
 Sample : K4528-16  
 Misc : 4.51g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-S2-(1.9)

Quant Time: Sep 02 04:42:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 112334   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 129491   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 98436    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 36718    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 38057    | 35.36  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 70.72% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 36707    | 44.21  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 88.42% |          |
| 50) Toluene-d8              | 8.71  | 98   | 139181   | 46.89  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 93.78% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 40606    | 31.19  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 62.38% |          |

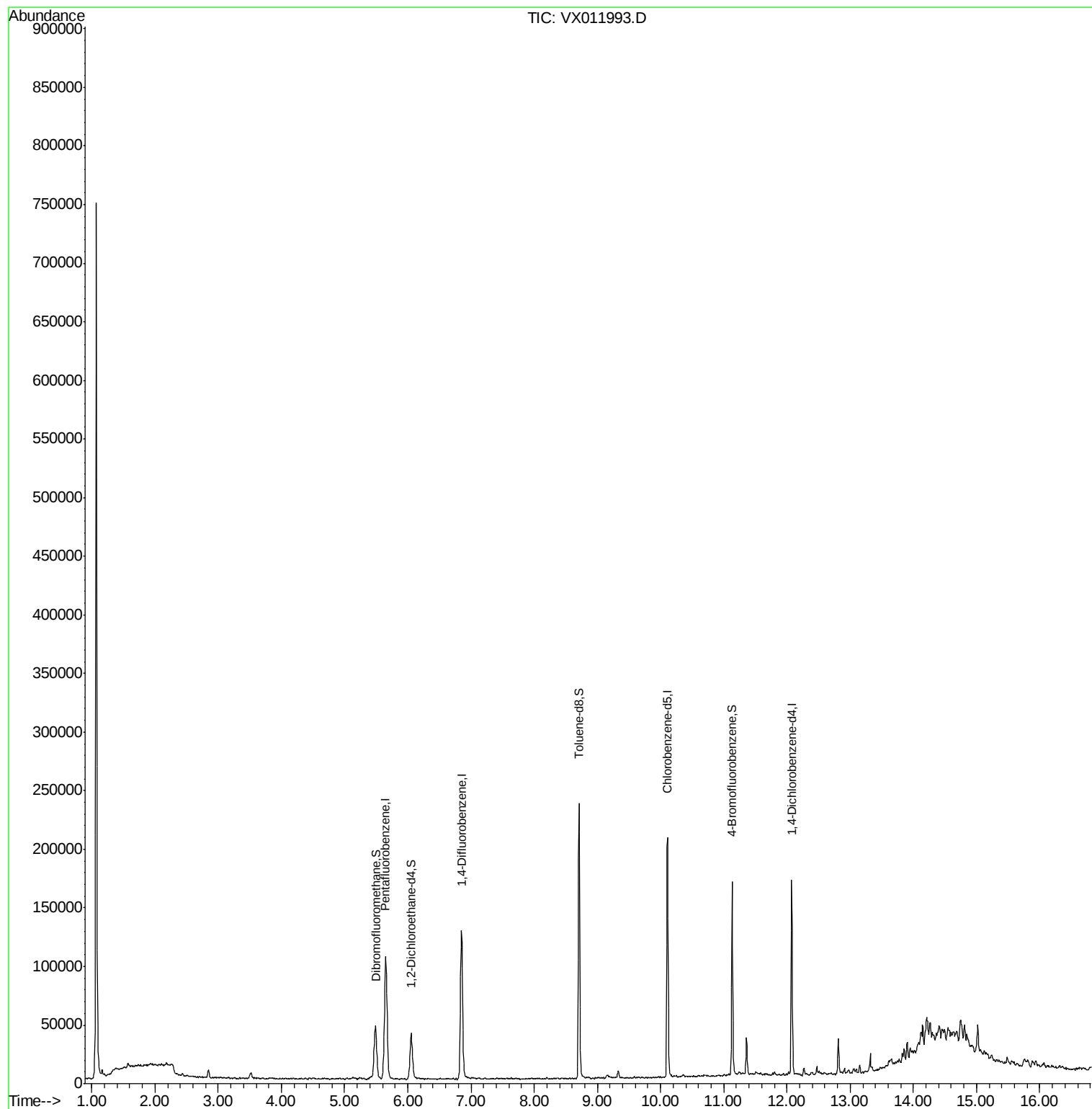
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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QLast Update : Fri Aug 30 01:59:05 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: VX011993.D

Acq: 01 Sep 2019 15:40

Instrument :

MSVOA\_X

ClientSampleId :

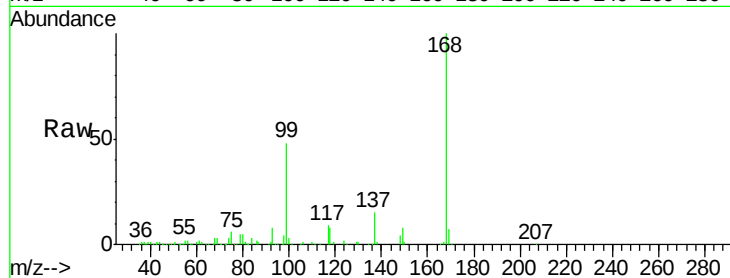
T9-12-13-S2-(1.9)

Tot Ion:168 Resp: 112334

Ion Ratio Lower Upper

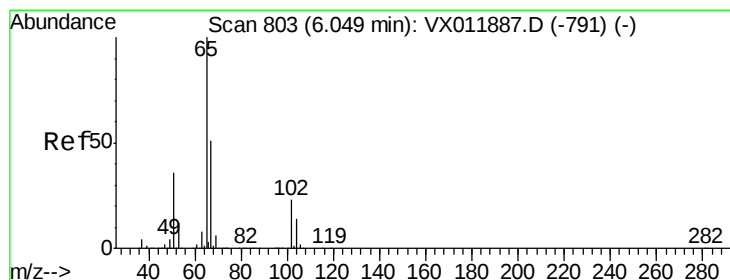
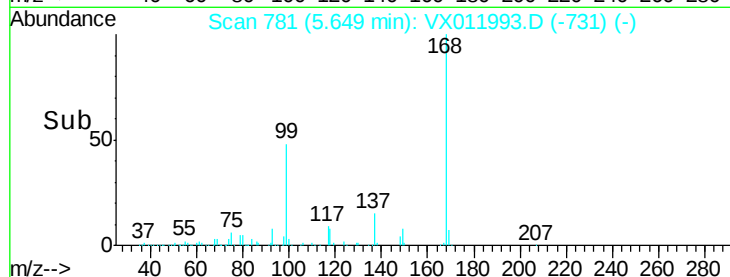
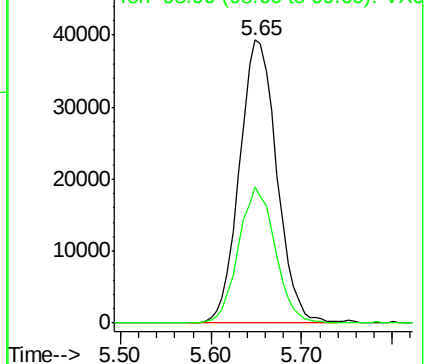
168 100

99 48.0 38.4 57.6



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: 35.360 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX011993.D

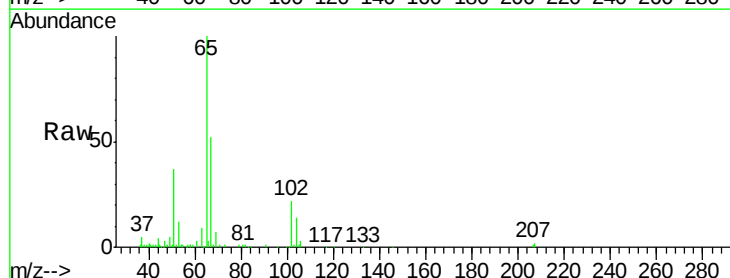
Acq: 01 Sep 2019 15:40

Tgt Ion: 65 Resp: 38057

Ion Ratio Lower Upper

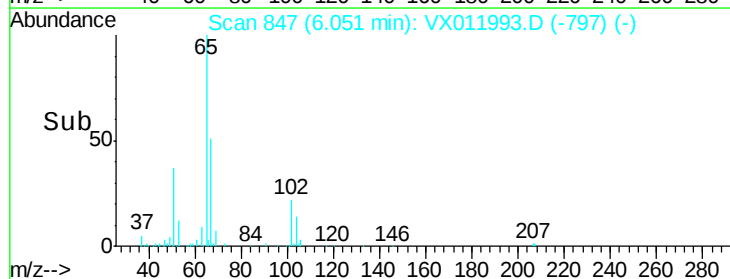
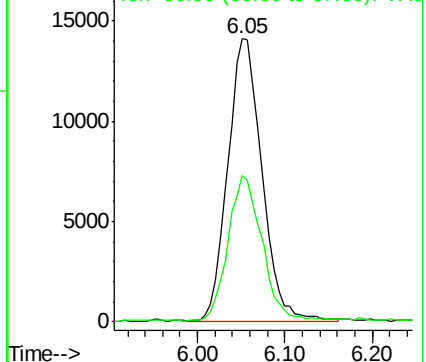
65 100

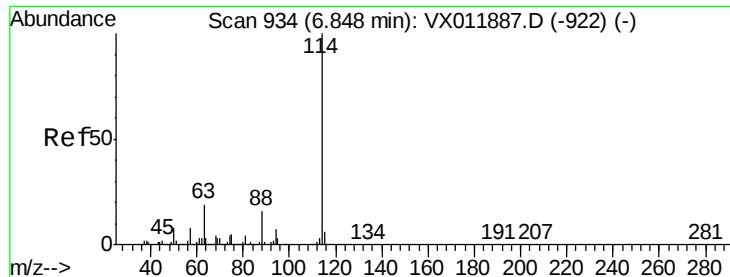
67 51.0 0.0 102.2



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX011993.D

Acq: 01 Sep 2019 15:40

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-S2-(1.9)

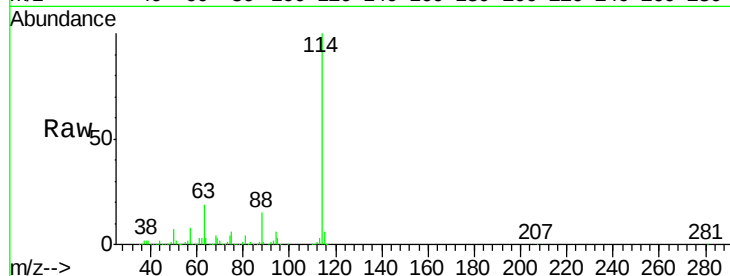
Tot Ion:114 Resp: 129491

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.8

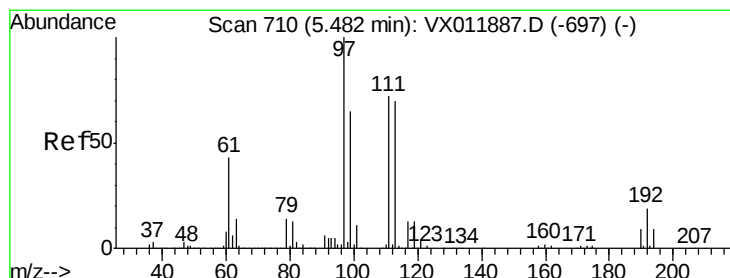
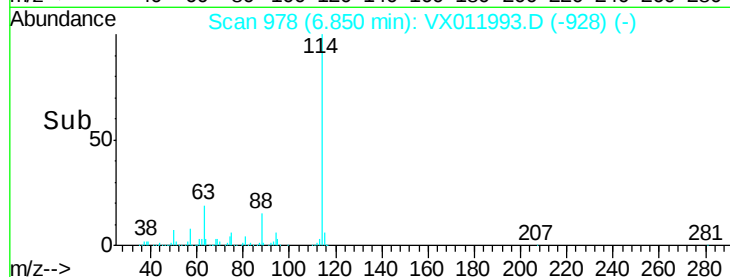
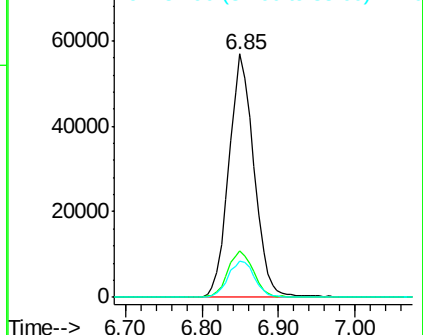
88 14.8 0.0 31.2



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: 44.207 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX011993.D

Acq: 01 Sep 2019 15:40

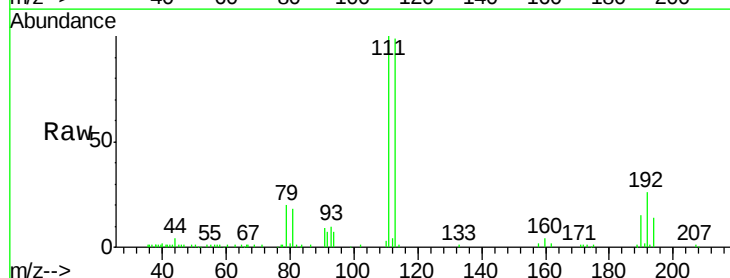
Tgt Ion:113 Resp: 36707

Ion Ratio Lower Upper

113 100

111 102.2 82.1 123.1

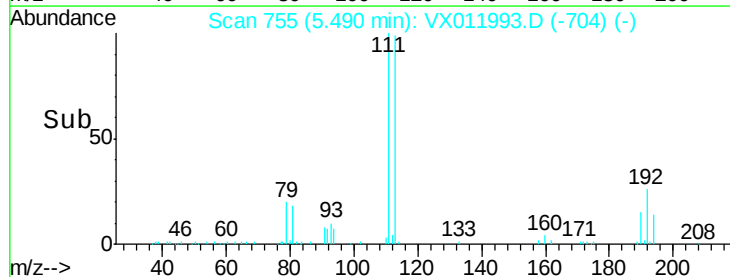
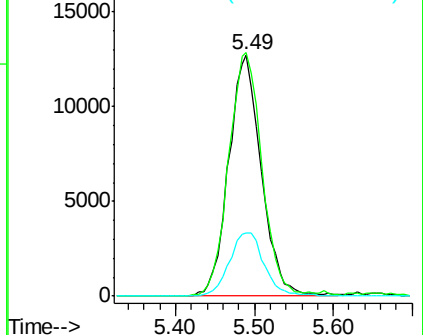
192 27.7 21.5 32.3

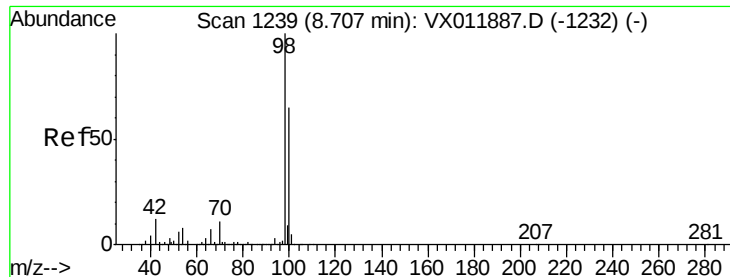


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 46.890 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX011993.D

Acq: 01 Sep 2019 15:40

Instrument :

MSVOA\_X

ClientSampleId :

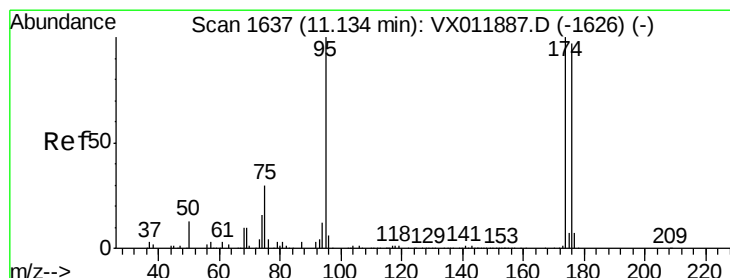
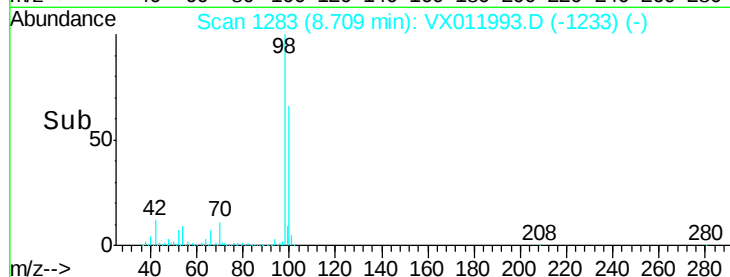
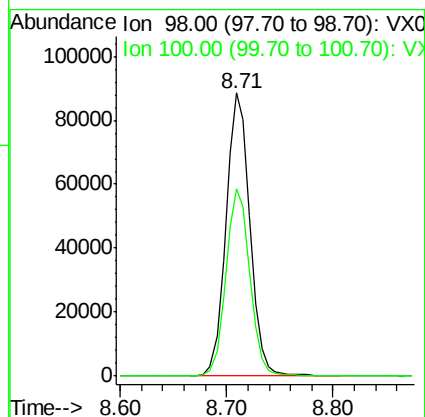
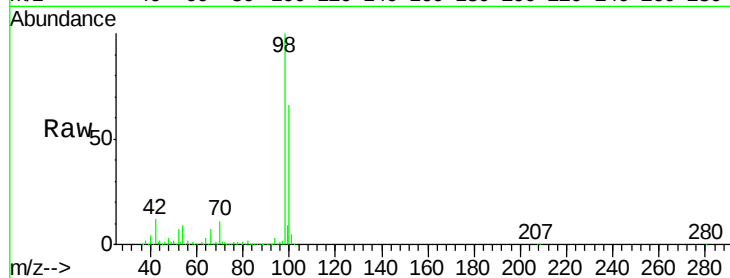
T9-12-13-S2-(1.9)

Tot Ion: 98 Resp: 139181

Ion Ratio Lower Upper

98 100

100 66.2 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 31.186 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX011993.D

Acq: 01 Sep 2019 15:40

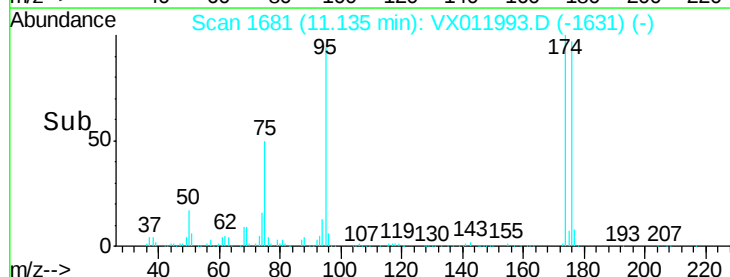
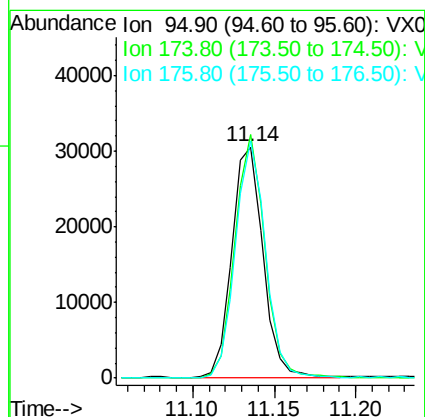
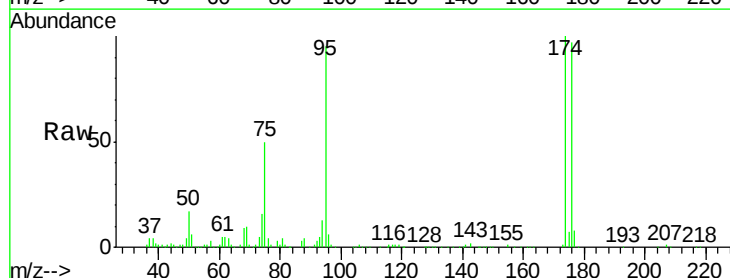
Tgt Ion: 95 Resp: 40606

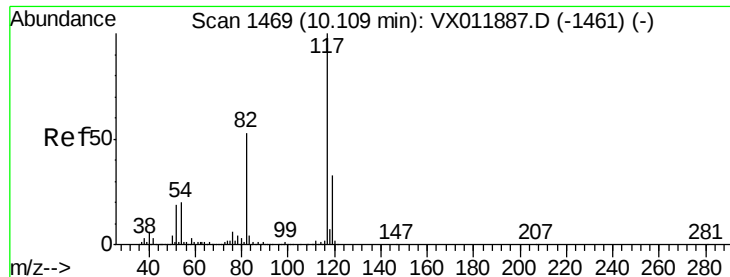
Ion Ratio Lower Upper

95 100

174 101.7 0.0 196.0

176 99.2 0.0 191.4

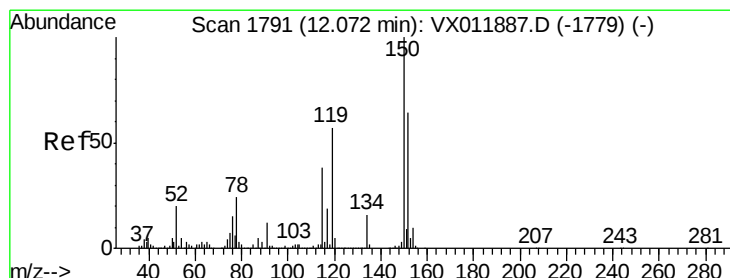
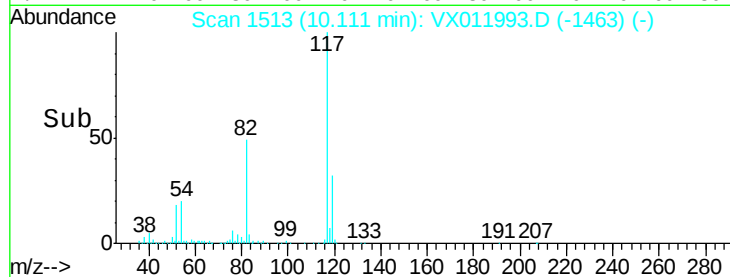
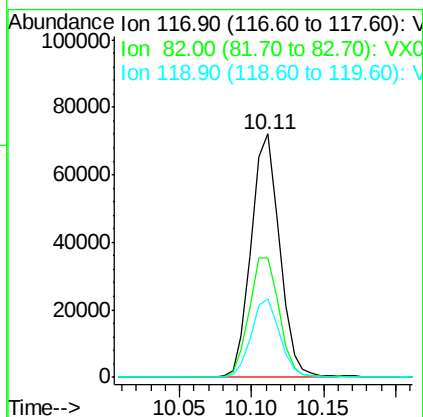
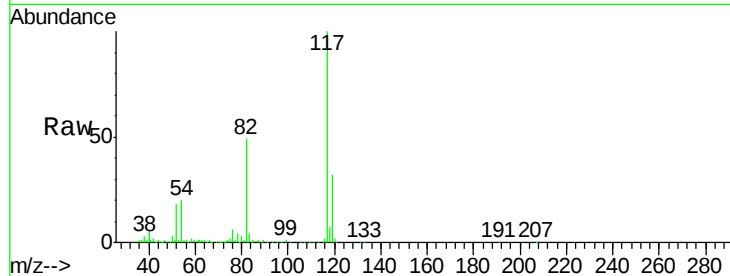




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX011993.D  
Acq: 01 Sep 2019 15:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-S2-(1.9)

Tot Ion:117 Resp: 98436  
Ion Ratio Lower Upper  
117 100  
82 49.1 42.0 63.0  
119 32.1 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX011993.D  
Acq: 01 Sep 2019 15:40

Tgt Ion:152 Resp: 36718  
Ion Ratio Lower Upper  
152 100  
115 51.2 37.1 111.3  
150 153.7 0.0 339.6

