

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081119\  
 Data File : VX011458.D  
 Acq On : 12 Aug 2019 02:45  
 Operator : JC/SP  
 Sample : K4085-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 HR-05-080919-B

Quant Time: Aug 12 09:02:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 200782   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 299797   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 275923   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 129072   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 107250   | 53.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.08% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 91110    | 46.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 93.10%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 358500   | 48.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.04%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 121447   | 46.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 92.08%  |          |

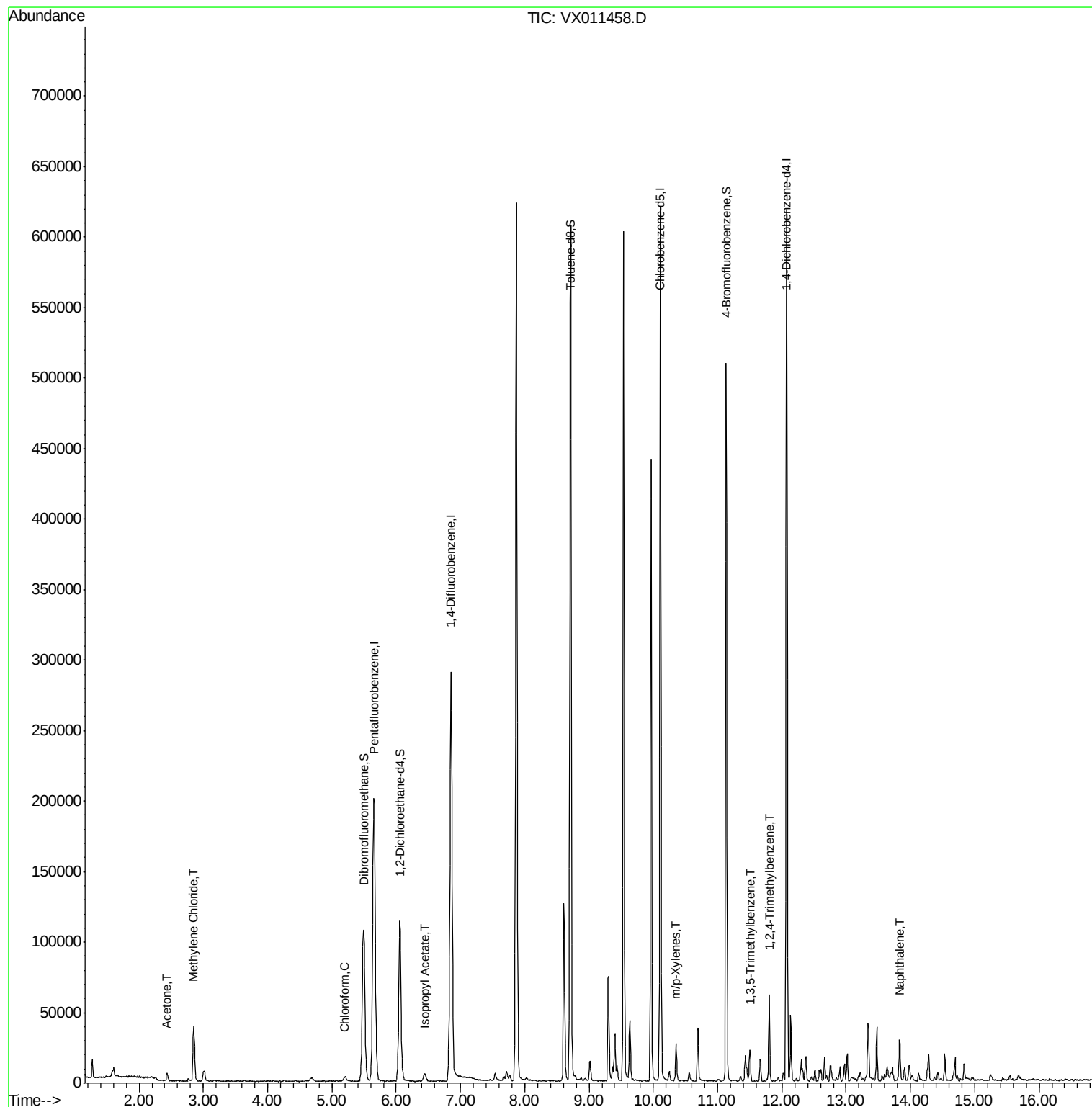
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                | 2.43  | 43   | 5557     | 5.774 | ug/l   | 96     |
| 20) Methylene Chloride     | 2.85  | 84   | 17896    | 8.491 | ug/l   | 96     |
| 30) Chloroform             | 5.20  | 83   | 4016     | 1.171 | ug/l # | 83     |
| 43) Isopropyl Acetate      | 6.45  | 43   | 7745     | 1.845 | ug/l   | 95     |
| 68) m/p-Xylenes            | 10.35 | 106  | 6336     | 1.653 | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 9793     | 1.325 | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 27102    | 3.684 | ug/l   | 99     |
| 95) Naphthalene            | 13.83 | 128  | 17327    | 2.056 | ug/l   | 97     |

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

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Instrument :  
MSVOA\_X  
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HR-05-080919-B

Quant Time: Aug 12 09:02:41 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

Instrument :

MSVOA\_X

ClientSampleId :

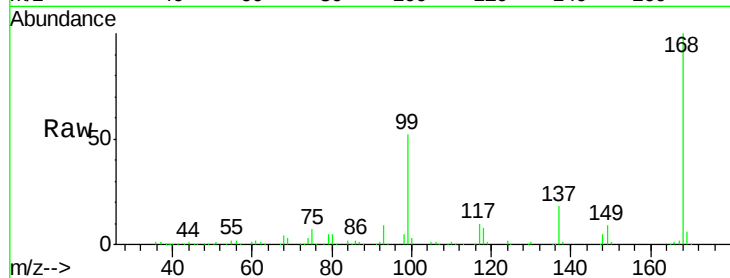
HR-05-080919-B

Tot Ion:168 Resp: 200782

Ion Ratio Lower Upper

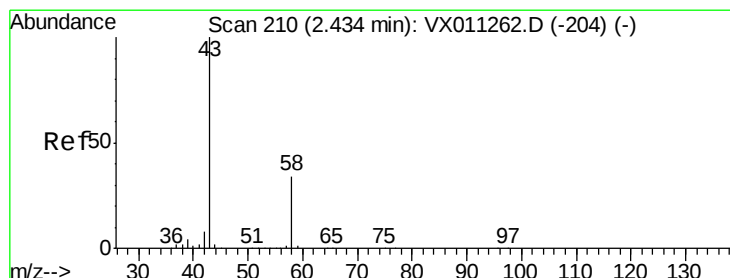
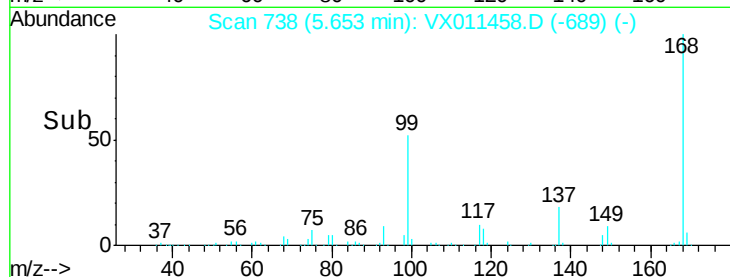
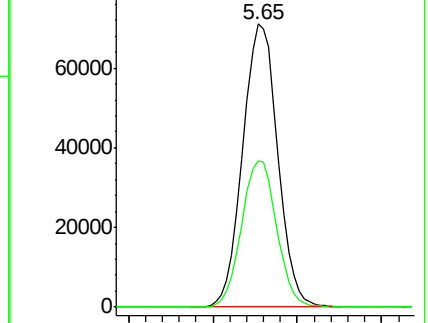
168 100

99 51.7 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 5.774 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011458.D

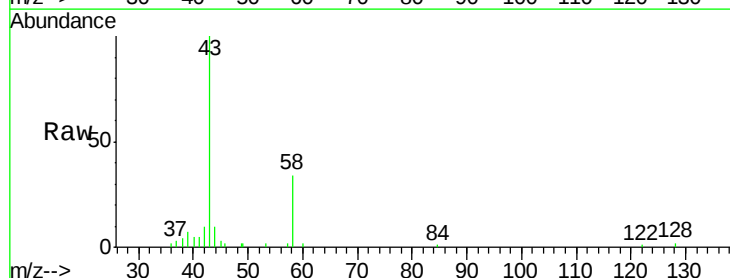
Acq: 12 Aug 2019 02:45

Tgt Ion: 43 Resp: 5557

Ion Ratio Lower Upper

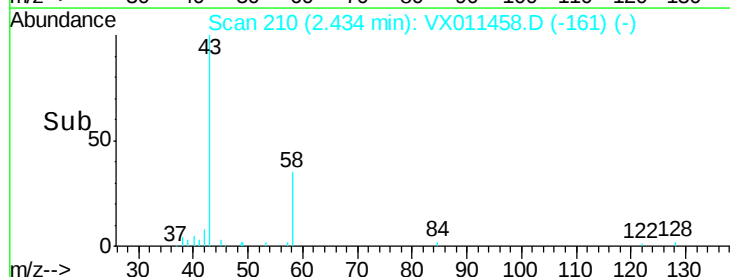
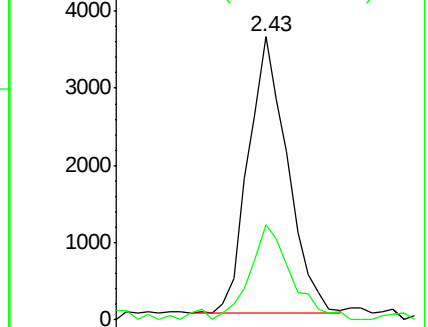
43 100

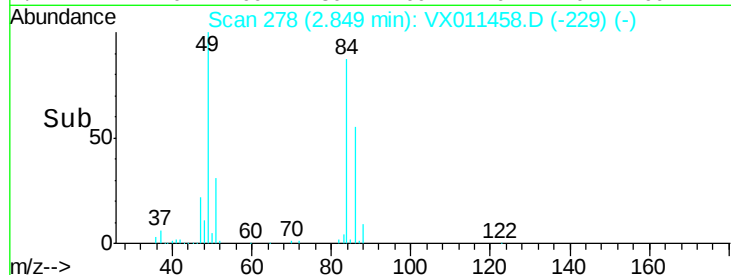
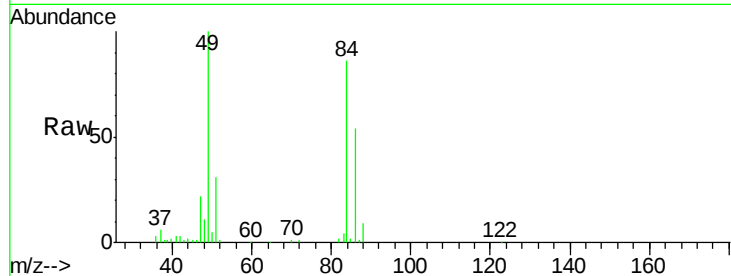
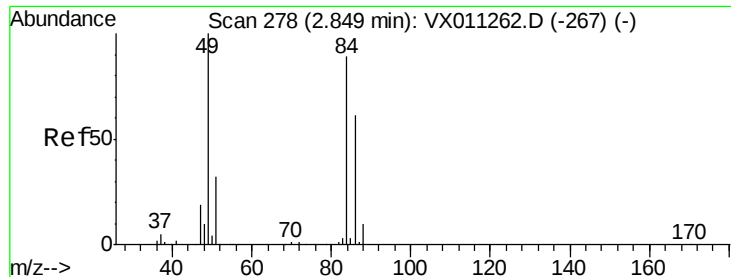
58 31.9 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

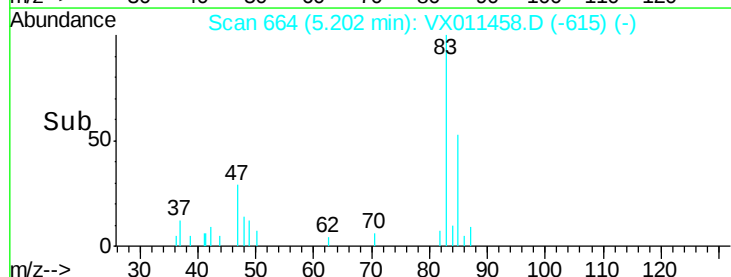
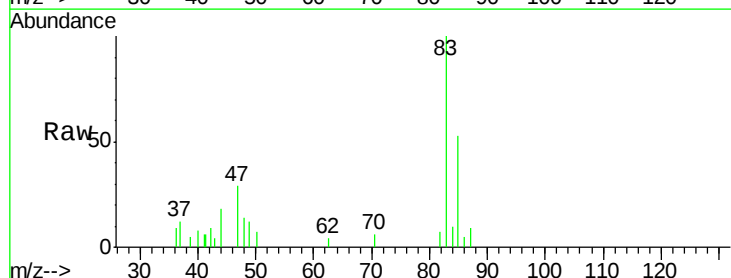
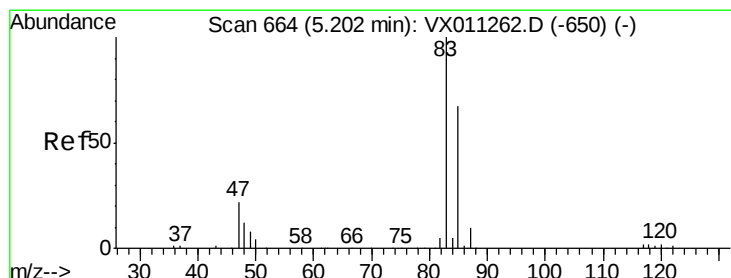
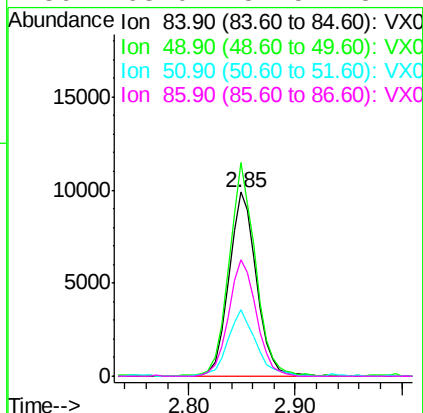




#20  
Methvlene Chloride  
Concen: 8.491 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. 0.00 min  
Lab File: VX011458.D  
Acq: 12 Aug 2019 02:45

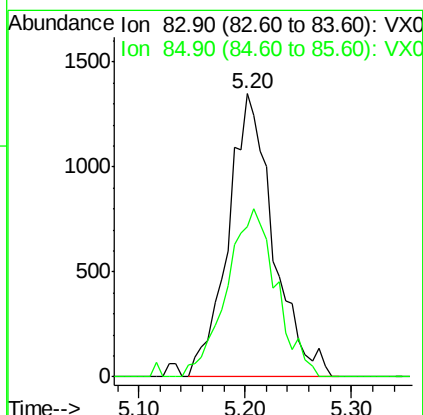
Instrument :  
MSVOA\_X  
ClientSampled :  
HR-05-080919-B

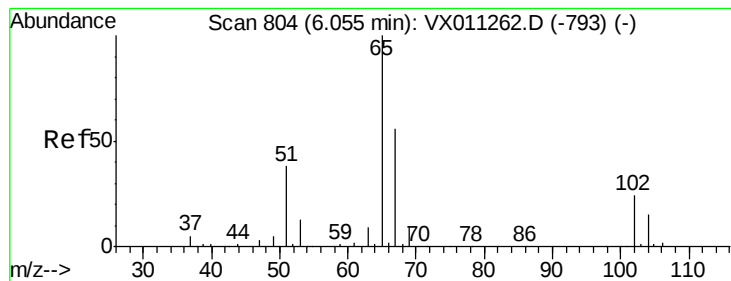
Tot Ion: 84 Resp: 17896  
Ion Ratio Lower Upper  
84 100  
49 116.2 89.3 133.9  
51 36.3 28.3 42.5  
86 63.0 54.5 81.7



#30  
Chloroform  
Concen: 1.171 ug/l  
RT: 5.20 min Scan# 664  
Delta R.T. 0.00 min  
Lab File: VX011458.D  
Acq: 12 Aug 2019 02:45

Tgt Ion: 83 Resp: 4016  
Ion Ratio Lower Upper  
83 100  
85 53.0 53.4 80.0#





#33

1,2-Dichloroethane-d4

Concen: 53.042 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

Instrument :

MSVOA\_X

ClientSampleId :

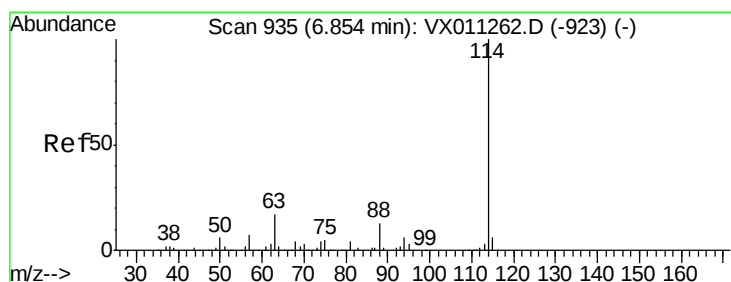
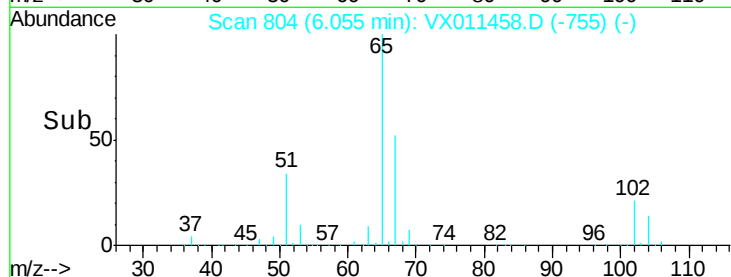
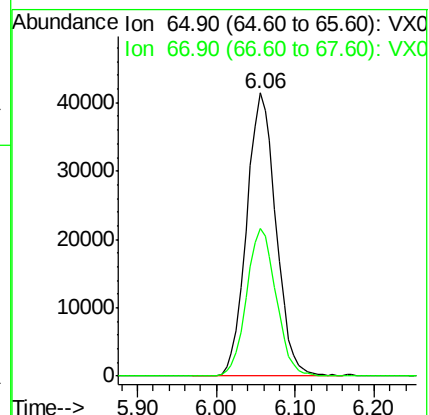
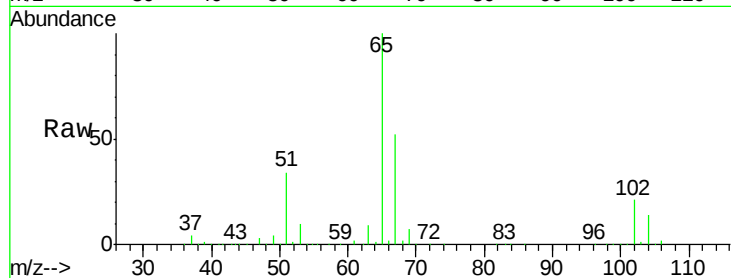
HR-05-080919-B

Tot Ion: 65 Resp: 107250

Ion Ratio Lower Upper

65 100

67 52.6 0.0 110.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

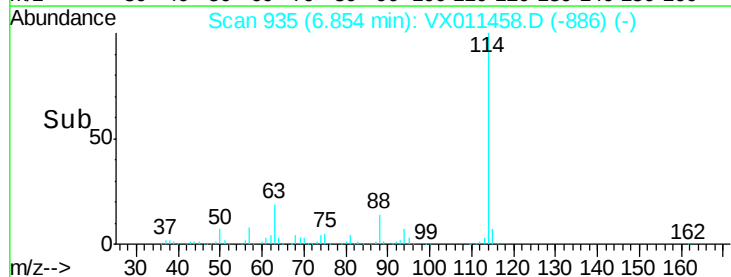
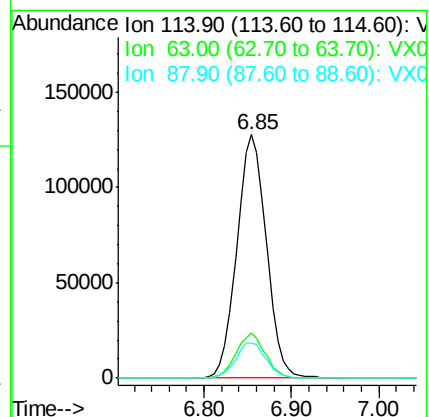
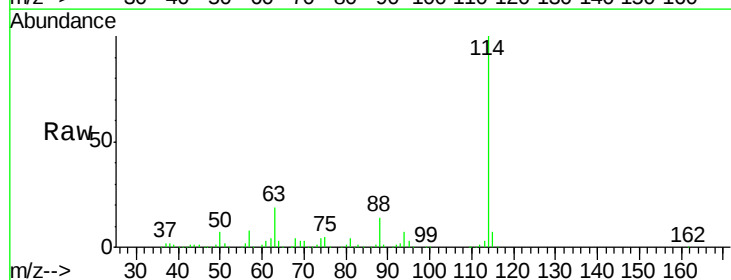
Tgt Ion: 114 Resp: 299797

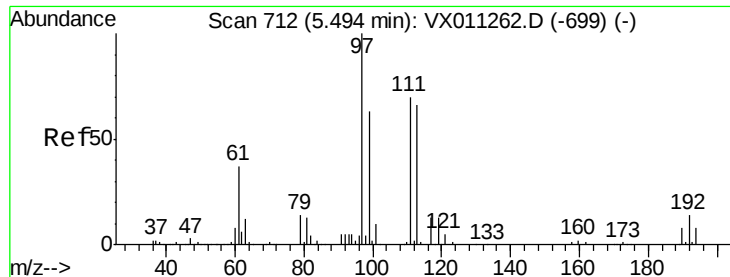
Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.0

88 14.3 0.0 26.4





#35

Dibromofluoromethane

Concen: 46.549 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

Instrument :

MSVOA\_X

ClientSampleId :

HR-05-080919-B

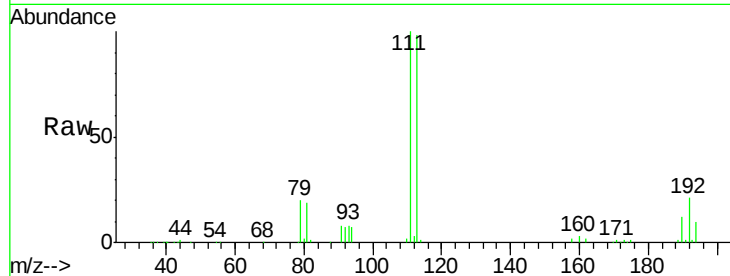
Tot Ion:113 Resp: 91110

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

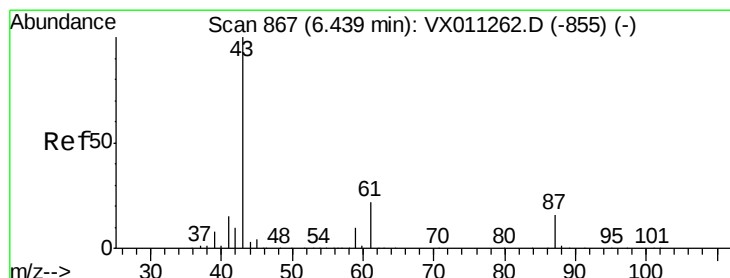
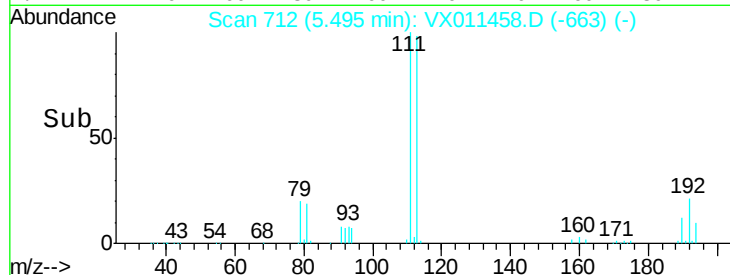
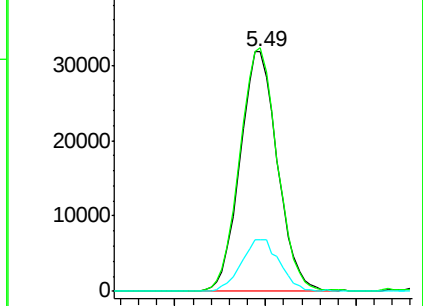
192 22.2 17.8 26.8



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



#43

Isopropyl Acetate

Concen: 1.845 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

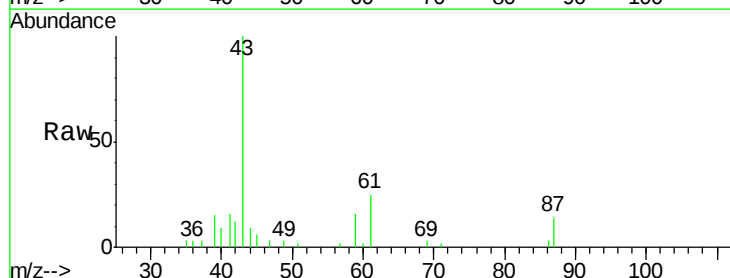
Tgt Ion: 43 Resp: 7745

Ion Ratio Lower Upper

43 100

61 23.6 16.5 24.7

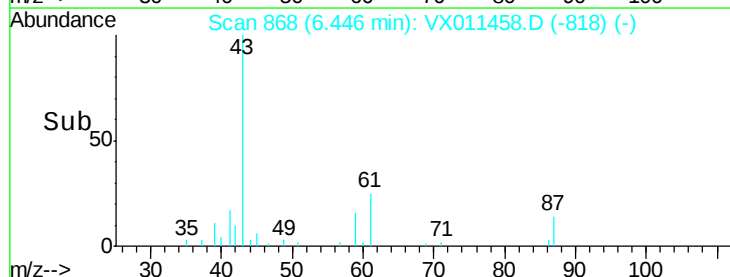
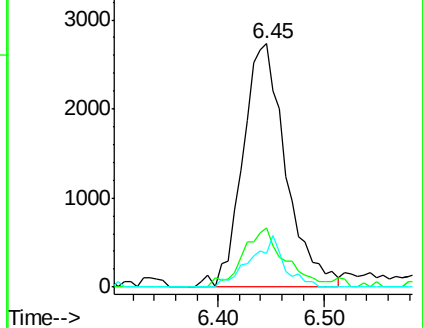
87 16.4 12.1 18.1

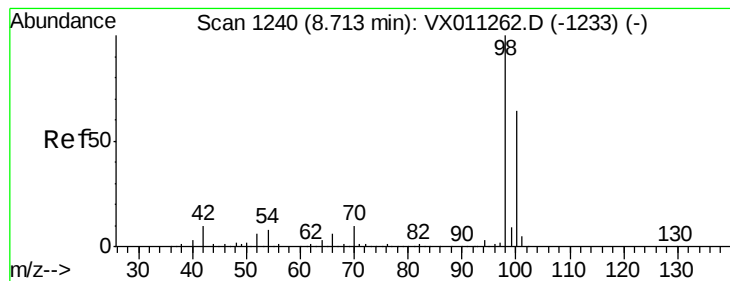


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#50

Toluene-d8

Concen: 48.523 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

Instrument :

MSVOA\_X

ClientSampleId :

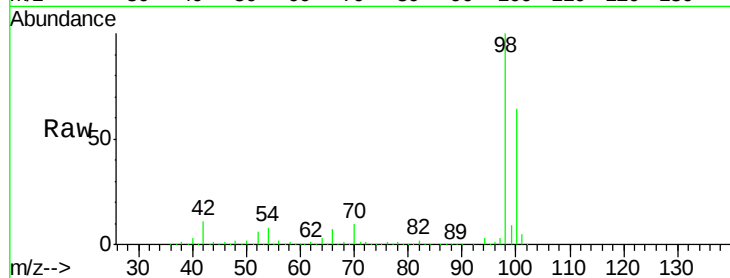
HR-05-080919-B

Tot Ion: 98 Resp: 358500

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

250000

200000

150000

100000

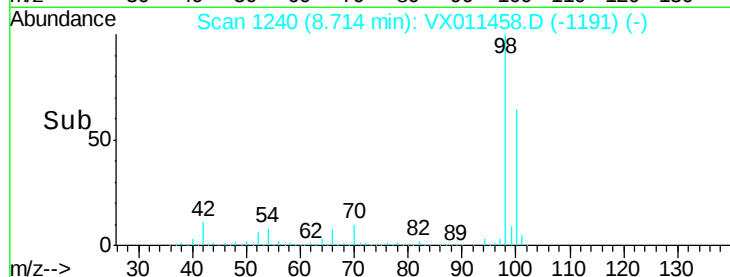
50000

0

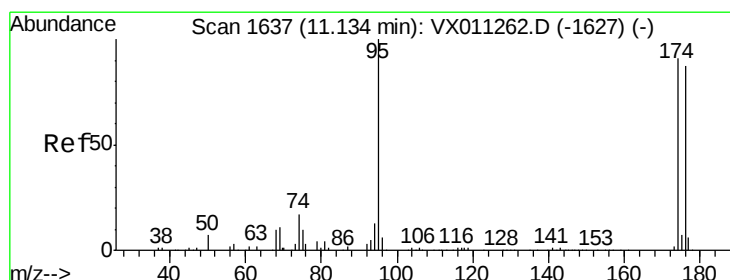
8.60

8.70

8.80



Time-->



#62

4-Bromofluorobenzene

Concen: 46.041 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

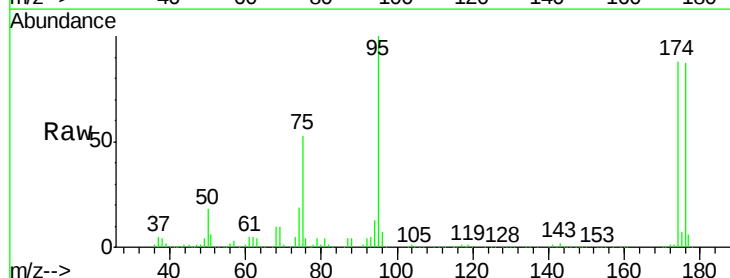
Tgt Ion: 95 Resp: 121447

Ion Ratio Lower Upper

95 100

174 90.4 0.0 191.2

176 88.0 0.0 184.8



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

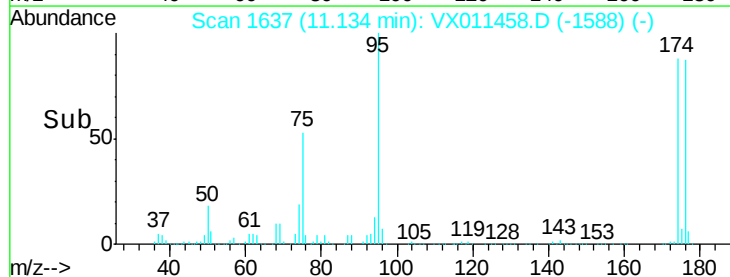
100000

50000

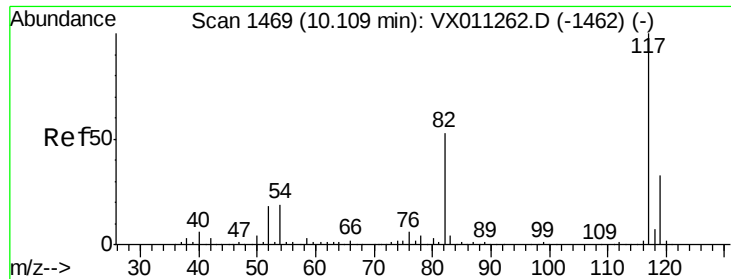
0

11.10

11.20



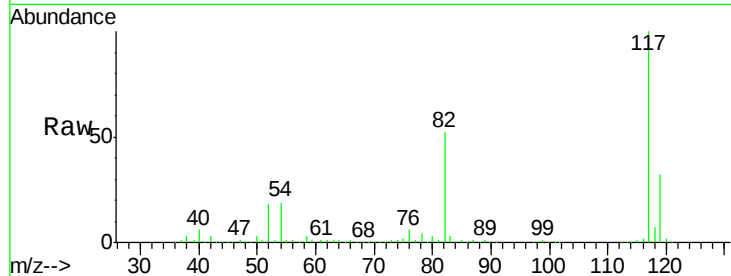
Time-->



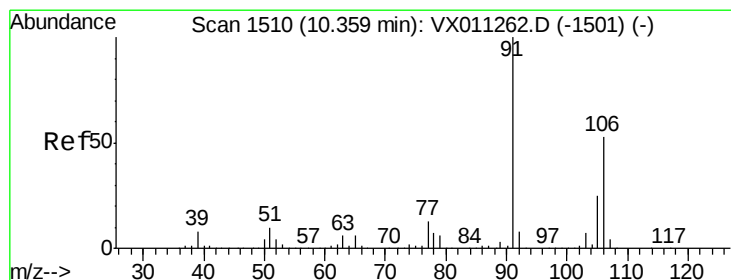
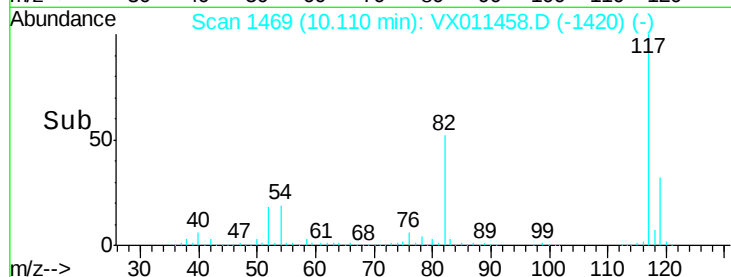
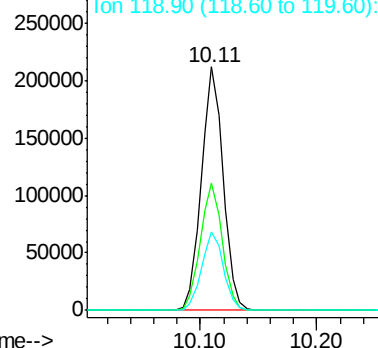
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011458.D  
Acq: 12 Aug 2019 02:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
HR-05-080919-B

Tot Ion:117 Resp: 275923  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.2 63.2  
119 32.2 26.6 39.8

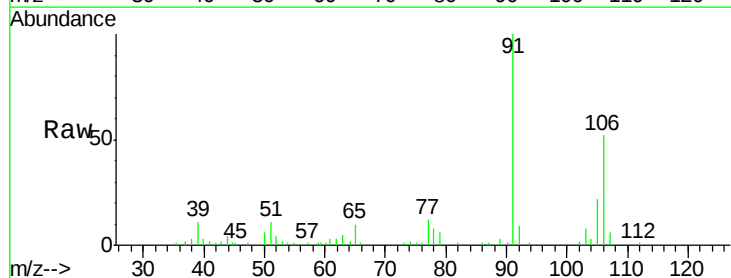


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

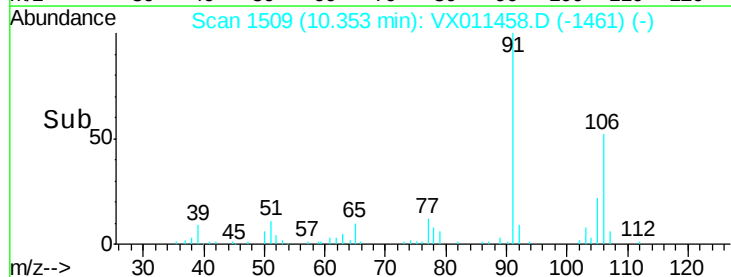
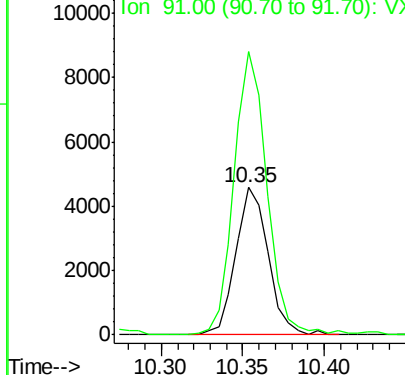


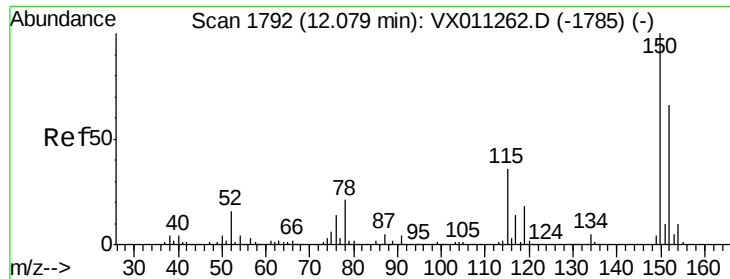
#68  
m/p-Xylenes  
Concen: 1.653 ug/l  
RT: 10.35 min Scan# 1509  
Delta R.T. -0.01 min  
Lab File: VX011458.D  
Acq: 12 Aug 2019 02:45

Tgt Ion:106 Resp: 6336  
Ion Ratio Lower Upper  
106 100  
91 196.1 155.9 233.9



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0



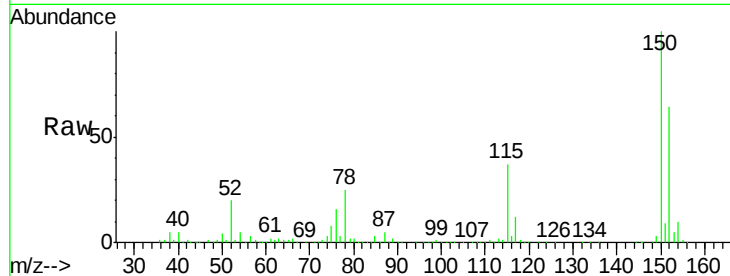


#72

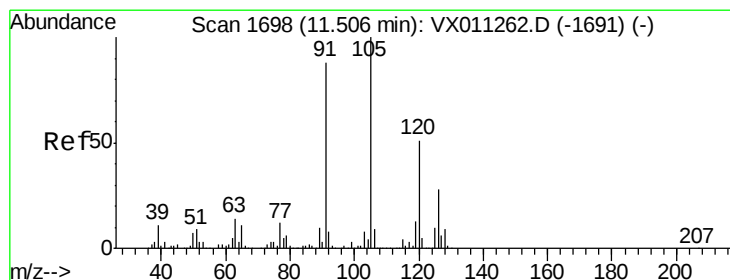
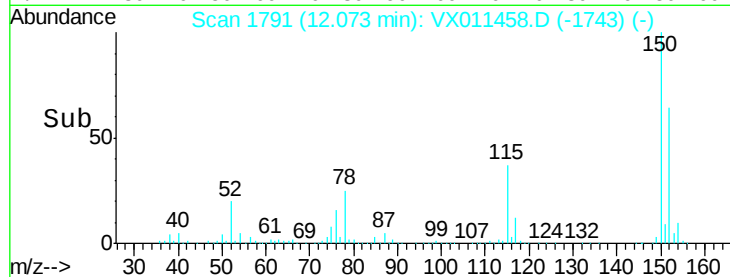
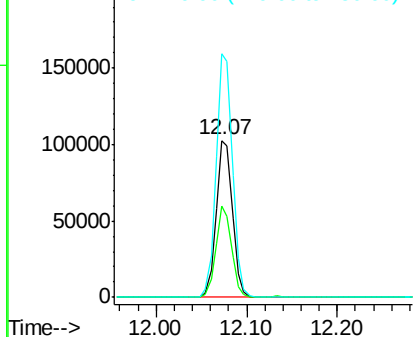
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: VX011458.D  
Acq: 12 Aug 2019 02:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
HR-05-080919-B

Tot Ion:152 Resp: 129072  
Ion Ratio Lower Upper  
152 100  
115 56.3 40.0 119.9  
150 156.6 0.0 350.4



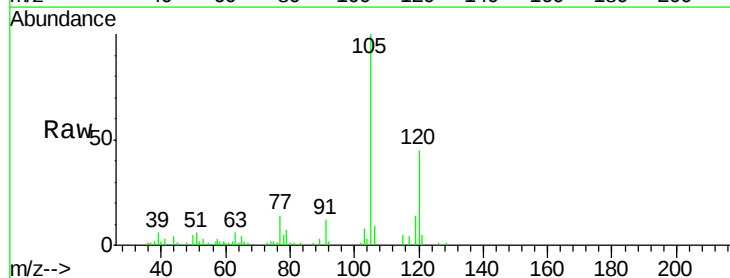
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



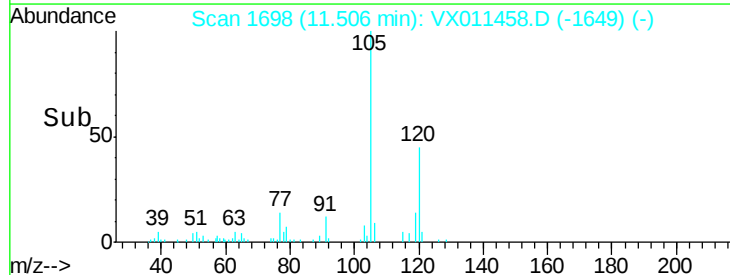
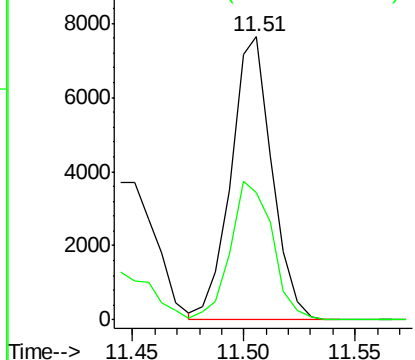
#80

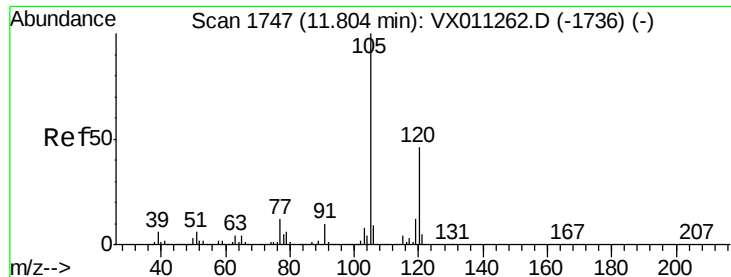
1,3,5-Trimethylbenzene  
Concen: 1.325 ug/l  
RT: 11.51 min Scan# 1698  
Delta R.T. 0.00 min  
Lab File: VX011458.D  
Acq: 12 Aug 2019 02:45

Tgt Ion:105 Resp: 9793  
Ion Ratio Lower Upper  
105 100  
120 50.2 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 3.684 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

Instrument :

MSVOA\_X

ClientSampleId :

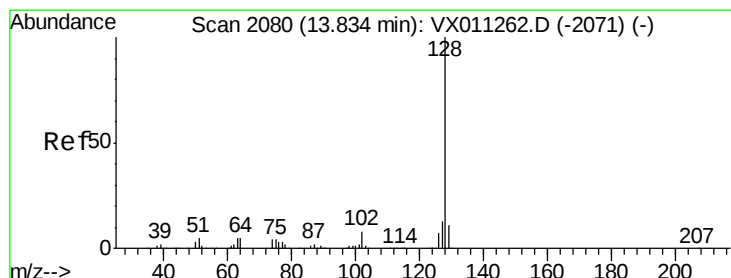
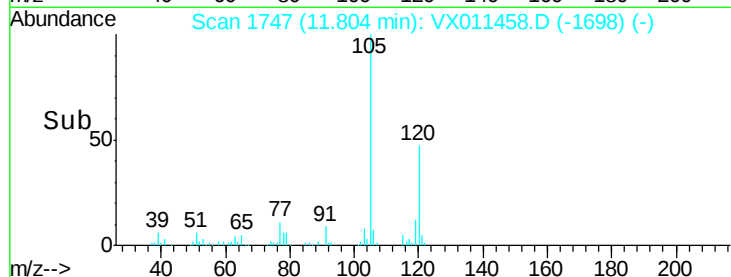
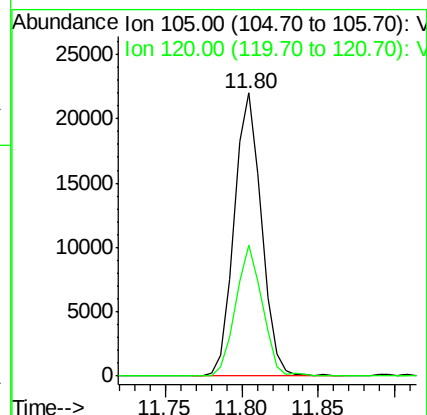
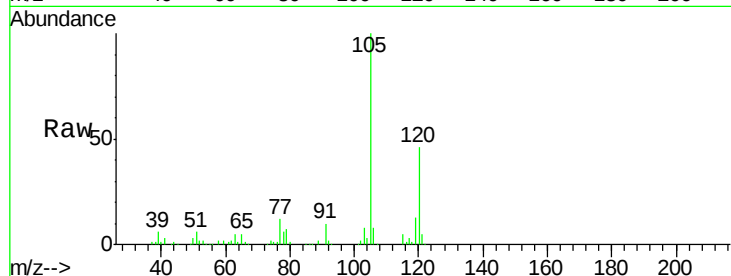
HR-05-080919-B

Tot Ion:105 Resp: 27102

Ion Ratio Lower Upper

105 100

120 45.3 23.0 69.0



#95

Naphthalene

Concen: 2.056 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX011458.D

Acq: 12 Aug 2019 02:45

Tgt Ion:128 Resp: 17327

Ion Ratio Lower Upper

128 100

127 13.9 10.4 15.6

129 12.3 8.9 13.3

