

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091919\  
 Data File : VX012533.D  
 Acq On : 19 Sep 2019 17:07  
 Operator : JC/SP  
 Sample : K4883-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP-20190911

Quant Time: Sep 20 05:53:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 196866   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 311298   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 271253   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 122510   | 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   | 129664   | 45.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.92%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 90555    | 48.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.12%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 358257   | 51.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.74% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 139080   | 48.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.06%  |          |

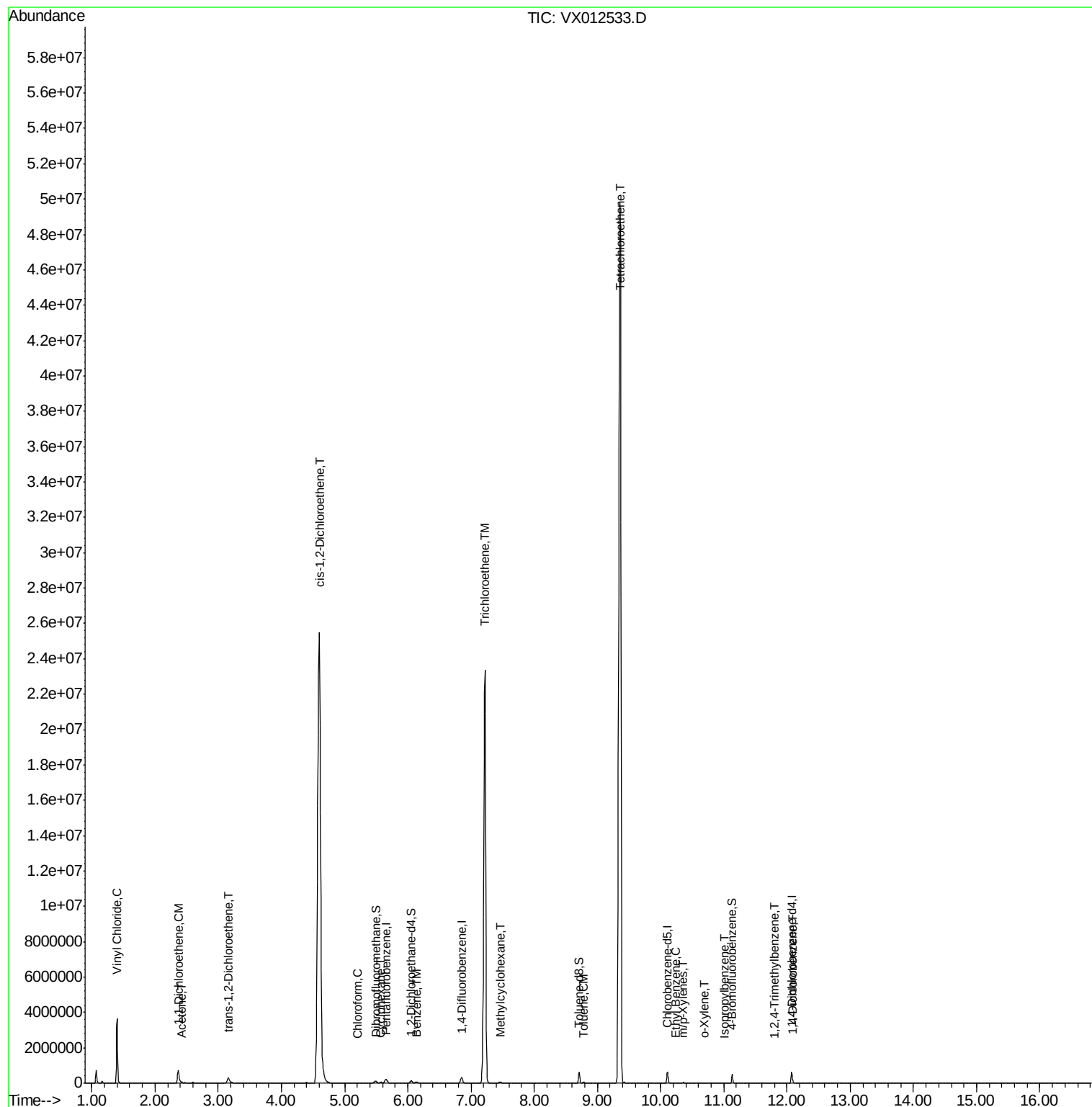
| Target Compounds             | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|------------------------------|-------|------|----------|-----------|--------|--------|
| 4) Vinyl Chloride            | 1.40  | 62   | 2378264  | 2033.073  | ug/l   | 96     |
| 12) 1,1-Dichloroethene       | 2.37  | 96   | 297944   | 240.722   | ug/l   | 96     |
| 16) Acetone                  | 2.43  | 43   | 13962    | 2.964     | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene | 3.16  | 96   | 173694   | 135.142   | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene   | 4.60  | 96   | 18537216 | 9654.828  | ug/l   | 83     |
| 30) Chloroform               | 5.21  | 83   | 3635     | 0.980     | ug/l # | 81     |
| 31) Cyclohexane              | 5.57  | 56   | 25987    | 13.336    | ug/l   | 94     |
| 39) Methylcyclohexane        | 7.46  | 83   | 26262    | 14.279    | ug/l   | 97     |
| 40) Benzene                  | 6.14  | 78   | 77753    | 12.924    | ug/l   | 96     |
| 44) Trichloroethene          | 7.22  | 130  | 9283302  | 5865.907  | ug/l   | 94     |
| 52) Toluene                  | 8.78  | 92   | 16488    | 4.253     | ug/l   | 99     |
| 64) Tetrachloroethene        | 9.36  | 164  | 14935394 | 12015.754 | ug/l   | 93     |
| 67) Ethyl Benzene            | 10.25 | 91   | 8686     | 1.129     | ug/l   | 98     |
| 68) m/p-Xylenes              | 10.36 | 106  | 8734     | 3.121     | ug/l   | 96     |
| 69) o-Xylene                 | 10.70 | 106  | 5059     | 1.758     | ug/l   | 93     |
| 73) Isopropylbenzene         | 11.01 | 105  | 2817     | 0.366     | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene   | 11.81 | 105  | 2636     | 0.392     | ug/l   | 76     |
| 88) 1,4-Dichlorobenzene      | 12.09 | 146  | 19349    | 5.342     | ug/l   | 94     |

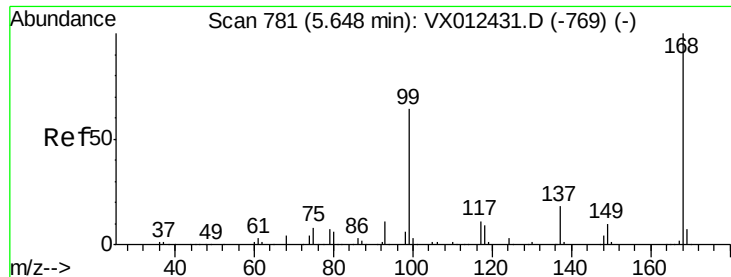
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091919\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 17 15:27:10 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

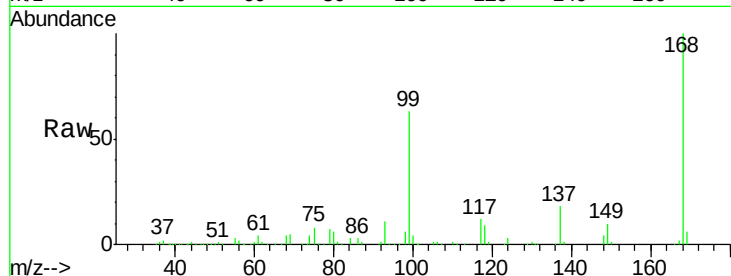
DUP-20190911

Tot Ion:168 Resp: 196866

Ion Ratio Lower Upper

168 100

99 62.5 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

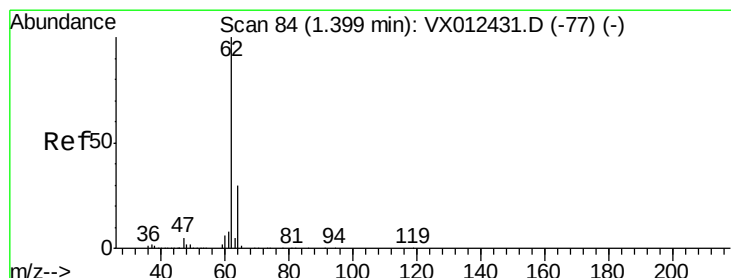
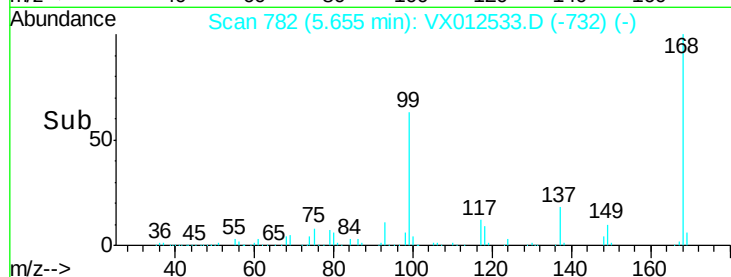
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 2033.073 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012533.D

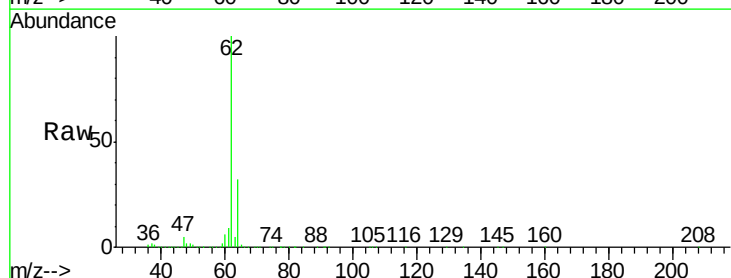
Acq: 19 Sep 2019 17:07

Tgt Ion: 62 Resp: 2378264

Ion Ratio Lower Upper

62 100

64 32.5 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

2500000

2000000

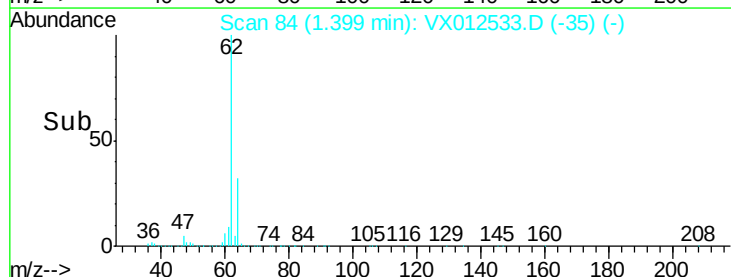
1500000

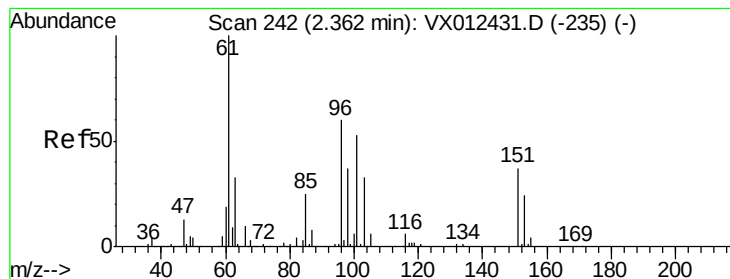
1000000

500000

0

Time--> 1.30 1.40 1.50





#12

1,1-Dichloroethene

Concen: 240.722 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

DUP-20190911

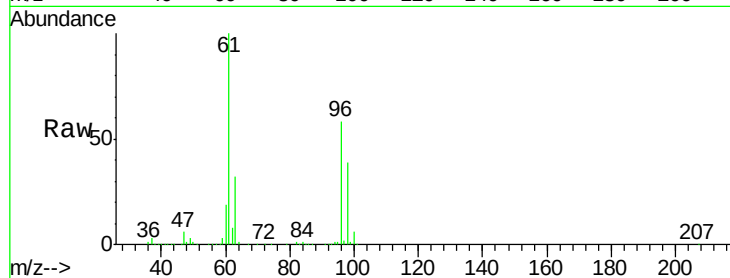
Tot Ion: 96 Resp: 297944

Ion Ratio Lower Upper

96 100

61 171.6 133.8 200.6

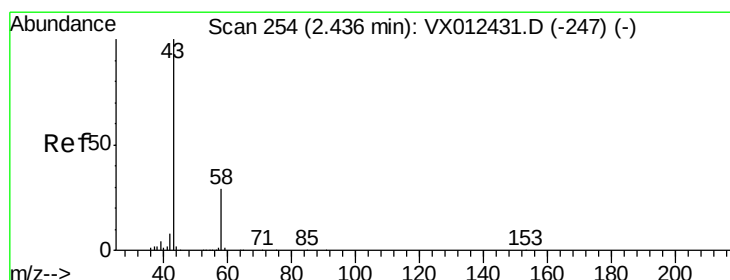
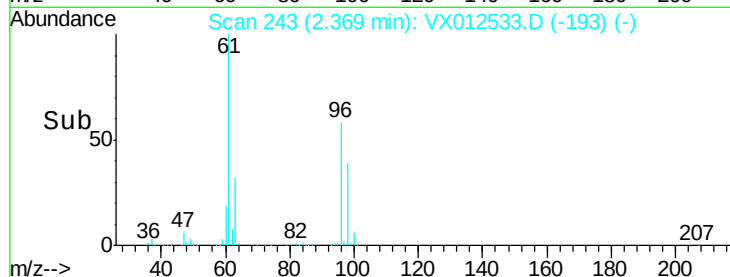
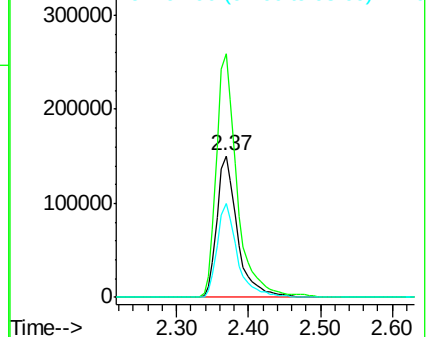
98 66.3 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#16

Acetone

Concen: 2.964 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012533.D

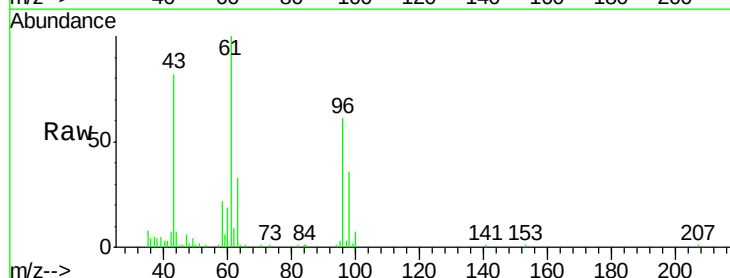
Acq: 19 Sep 2019 17:07

Tgt Ion: 43 Resp: 13962

Ion Ratio Lower Upper

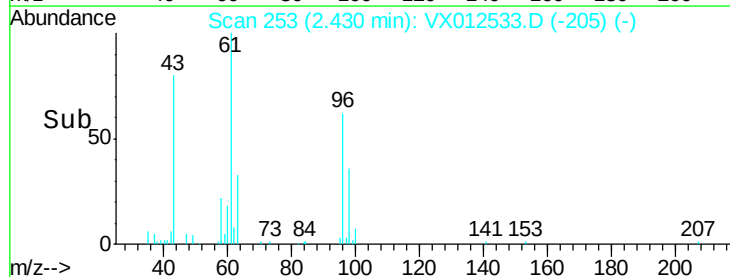
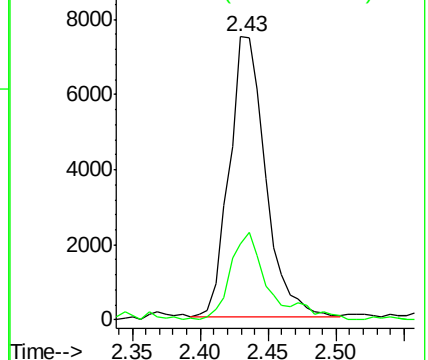
43 100

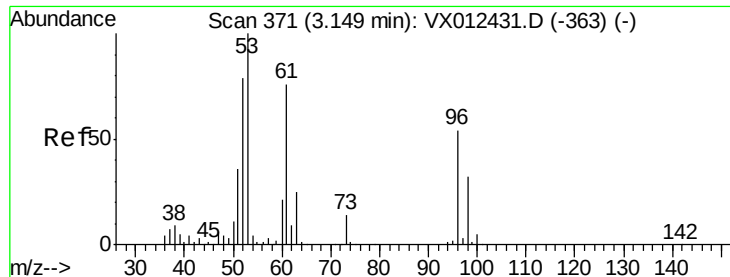
58 26.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 135.142 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

DUP-20190911

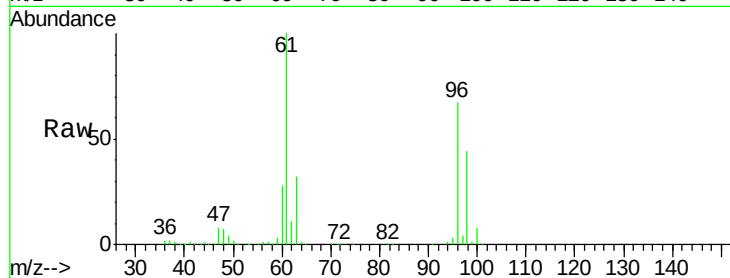
Tot Ion: 96 Resp: 173694

Ion Ratio Lower Upper

96 100

61 149.9 112.0 168.0

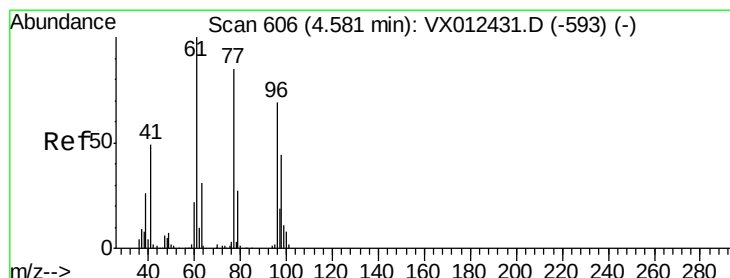
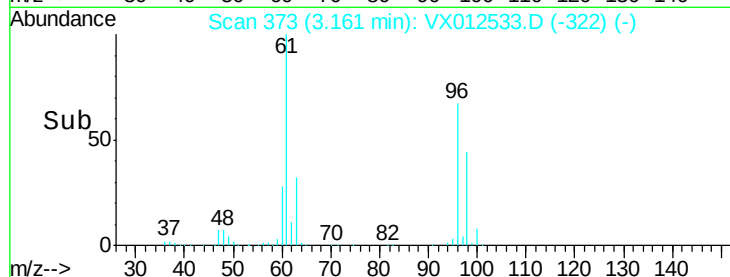
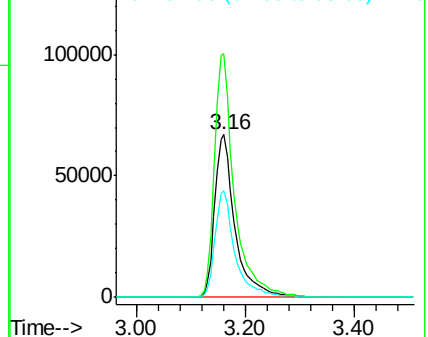
98 65.7 47.8 71.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 9654.828 ug/l

RT: 4.60 min Scan# 609

Delta R.T. 0.02 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

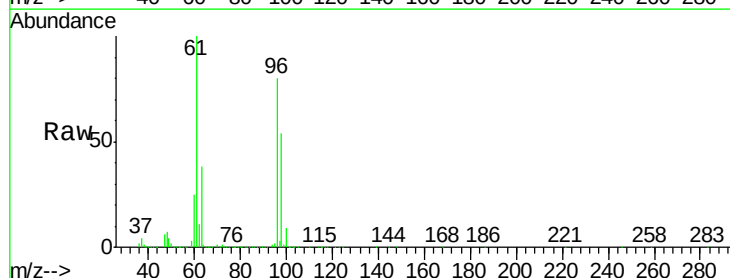
Tgt Ion: 96 Resp:18537216

Ion Ratio Lower Upper

96 100

61 129.3 0.0 319.4

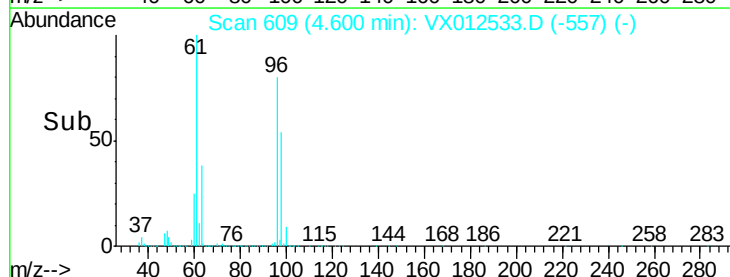
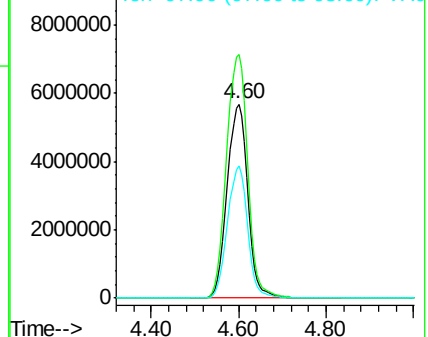
98 66.6 0.0 130.6

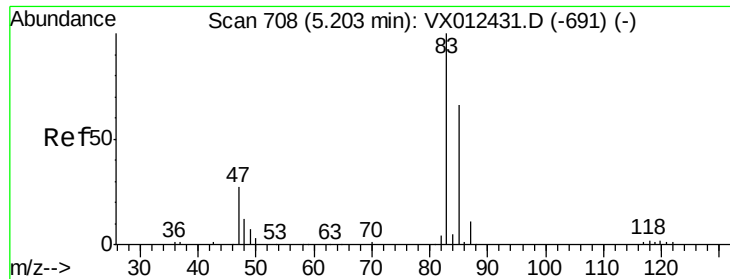


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

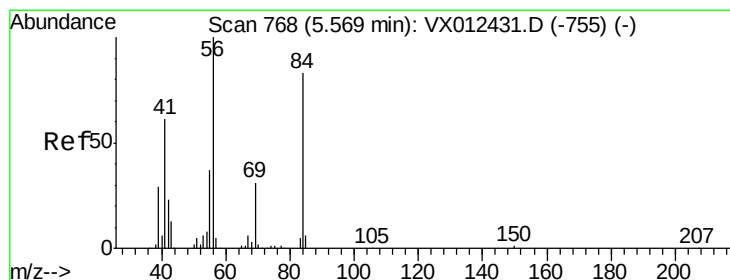
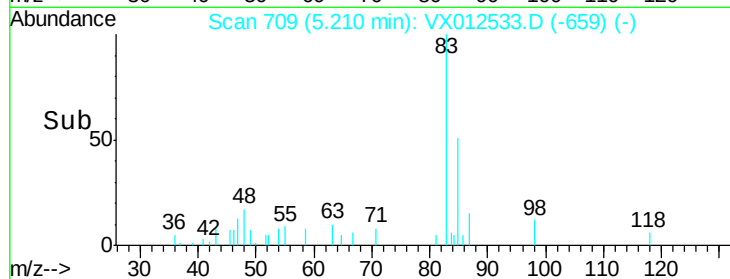
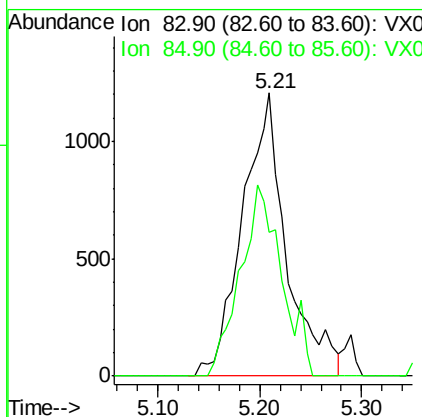
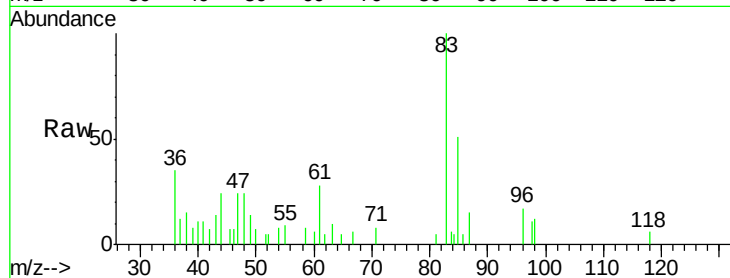




#30  
Chloroform  
Concen: 0.980 ug/l  
RT: 5.21 min Scan# 709  
Delta R.T. 0.01 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

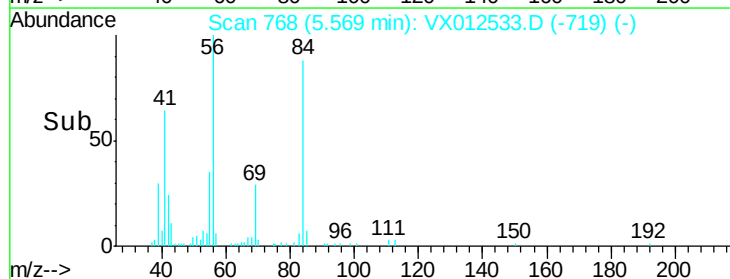
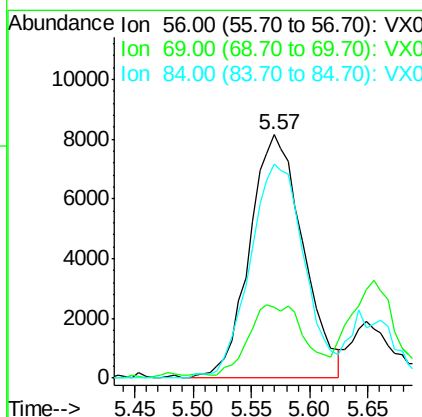
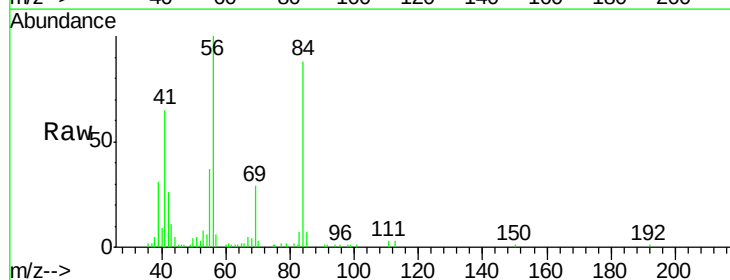
Instrument :  
MSVOA\_X  
ClientSampled :  
DUP-20190911

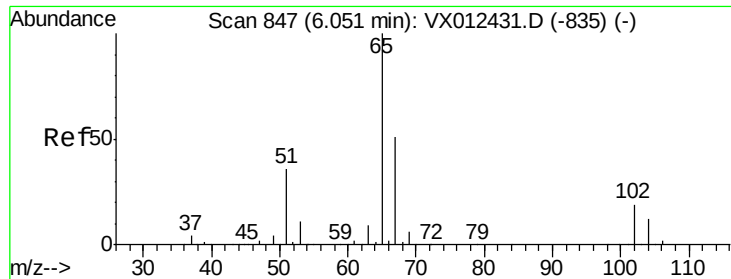
Tot Ion: 83 Resp: 3635  
Ion Ratio Lower Upper  
83 100  
85 50.7 53.0 79.4#



#31  
Cyclohexane  
Concen: 13.336 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Tgt Ion: 56 Resp: 25987  
Ion Ratio Lower Upper  
56 100  
69 27.5 25.0 37.6  
84 87.9 66.4 99.6

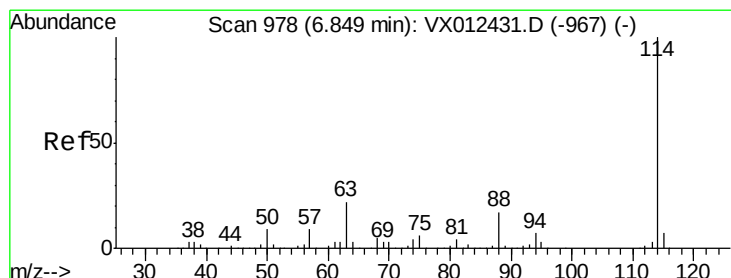
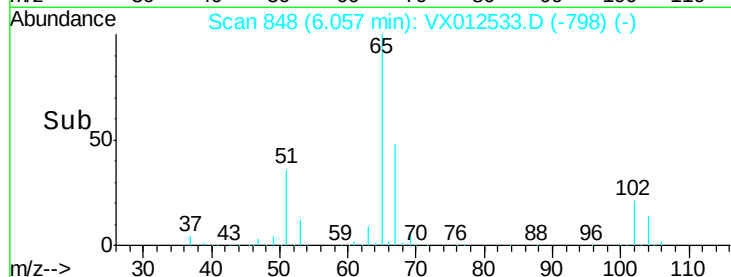
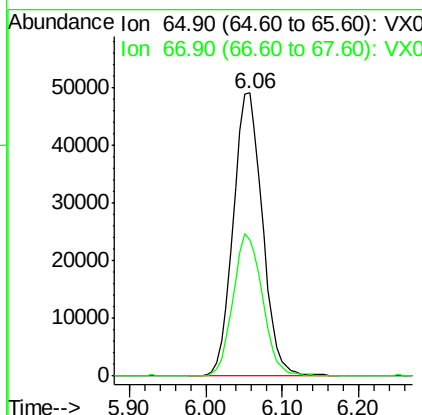
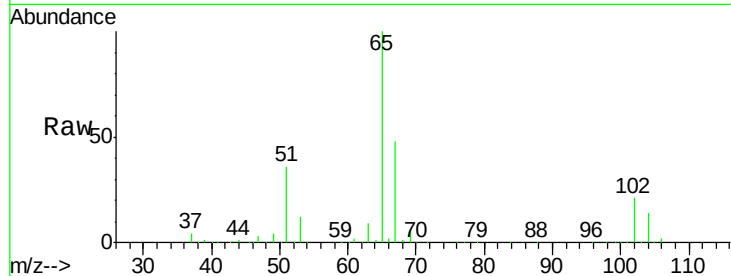




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.956 ug/l  
 RT: 6.06 min Scan# 848  
 Delta R.T. 0.01 min  
 Lab File: VX012533.D  
 Acq: 19 Sep 2019 17:07

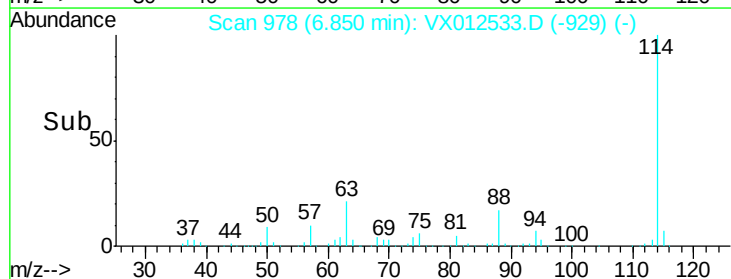
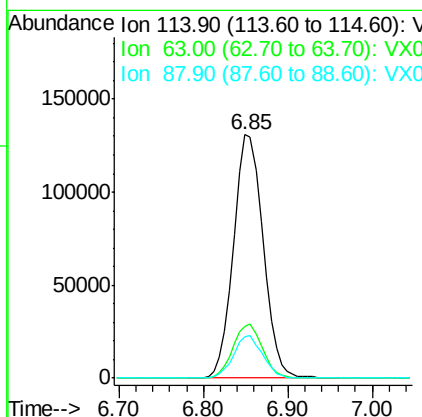
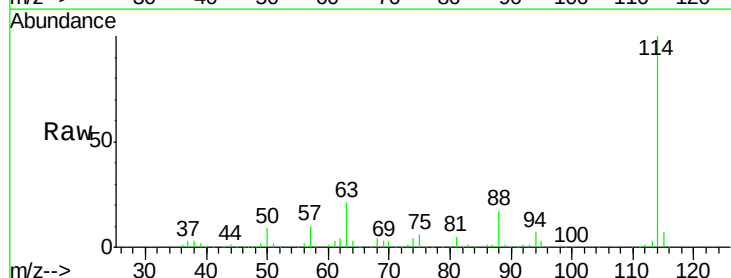
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP-20190911

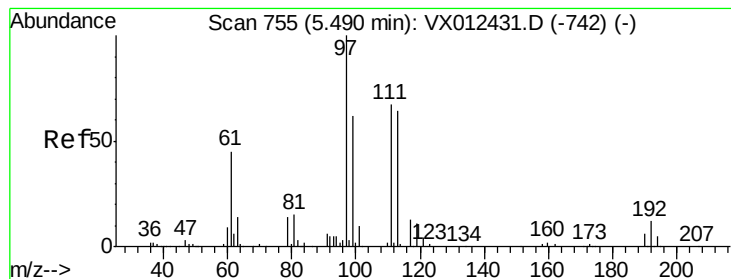
Tot Ion: 65 Resp: 129664  
 Ion Ratio Lower Upper  
 65 100  
 67 50.7 0.0 101.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX012533.D  
 Acq: 19 Sep 2019 17:07

Tgt Ion: 114 Resp: 311298  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 43.2  
 88 17.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.061 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

DUP-20190911

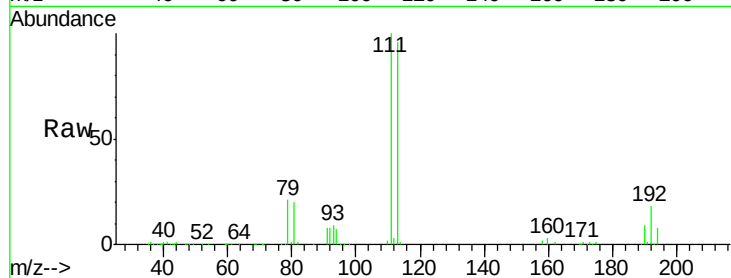
Tot Ion:113 Resp: 90555

Ion Ratio Lower Upper

113 100

111 104.3 83.4 125.2

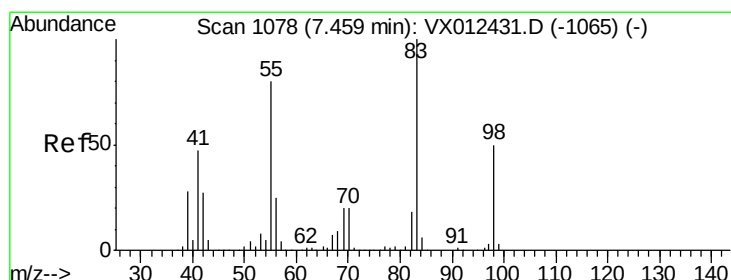
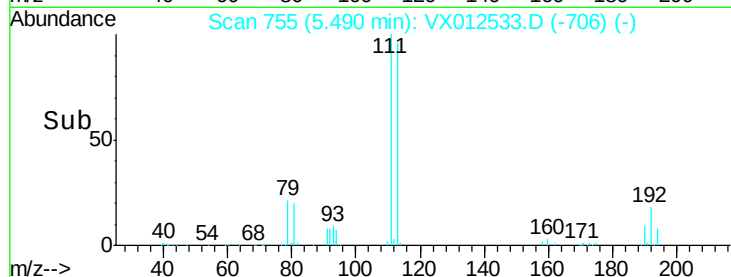
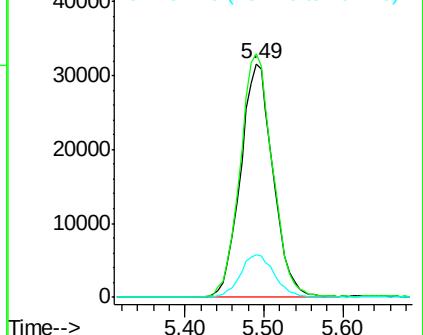
192 19.3 14.4 21.6



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



#39

Methylcyclohexane

Concen: 14.279 ug/l

RT: 7.46 min Scan# 1078

Delta R.T. 0.00 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

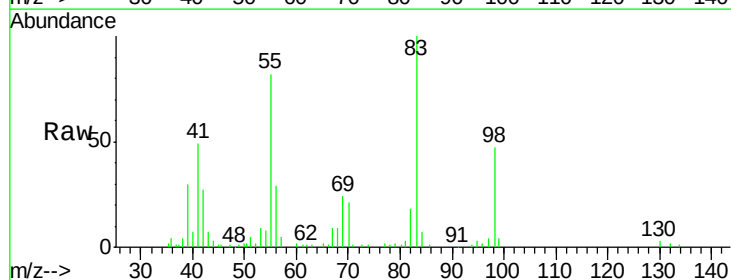
Tgt Ion: 83 Resp: 26262

Ion Ratio Lower Upper

83 100

55 81.8 64.4 96.6

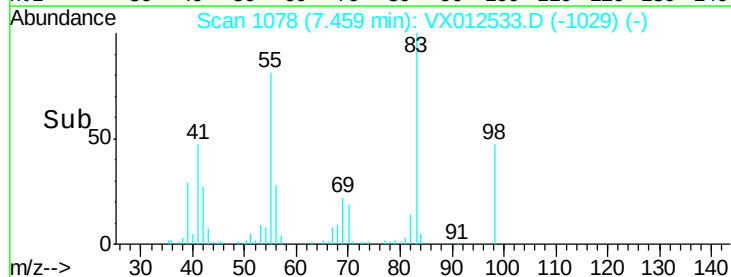
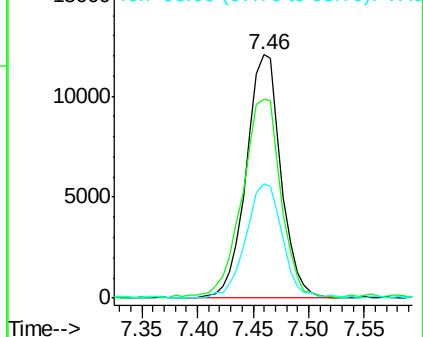
98 47.0 40.1 60.1



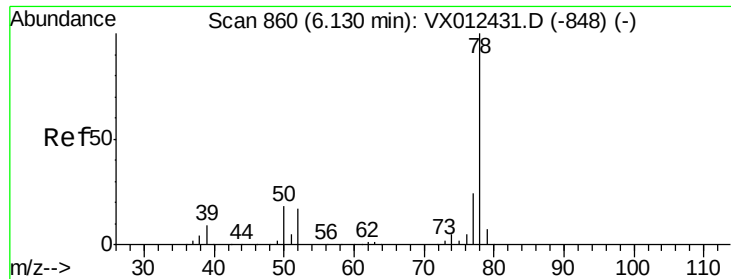
Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0







#40

Benzene

Concen: 12.924 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

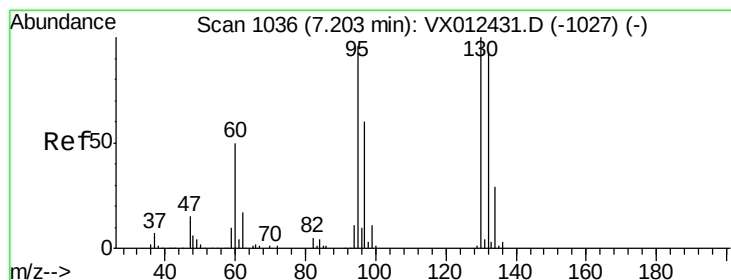
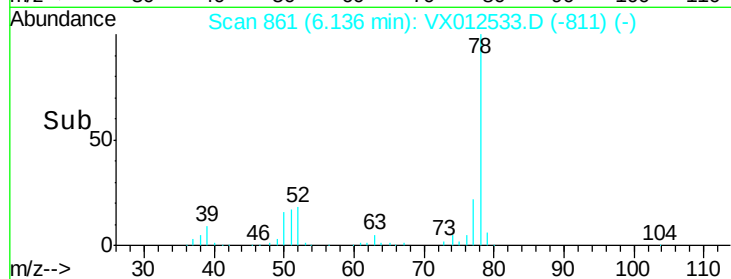
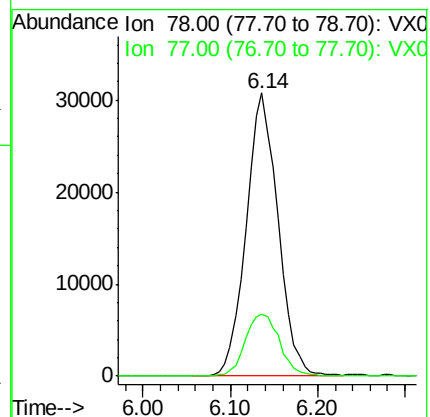
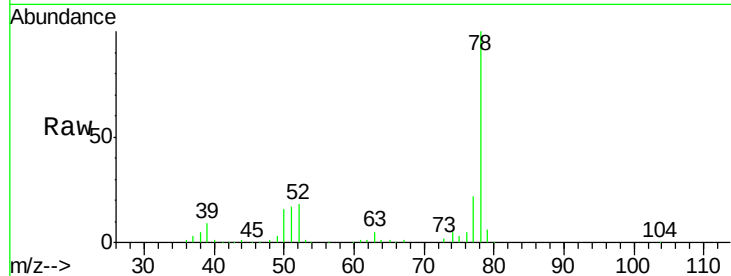
DUP-20190911

Tot Ion: 78 Resp: 77753

Ion Ratio Lower Upper

78 100

77 22.1 19.2 28.8



#44

Trichloroethene

Concen: 5865.907 ug/l

RT: 7.22 min Scan# 1039

Delta R.T. 0.02 min

Lab File: VX012533.D

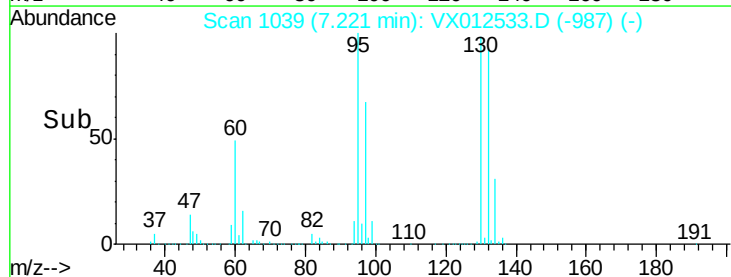
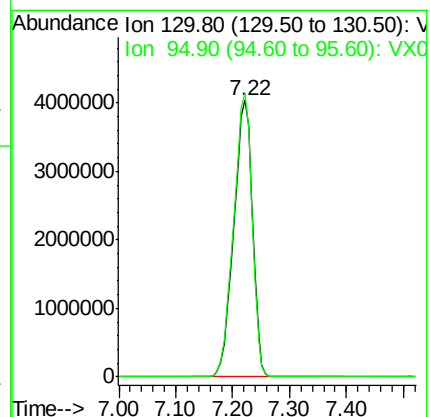
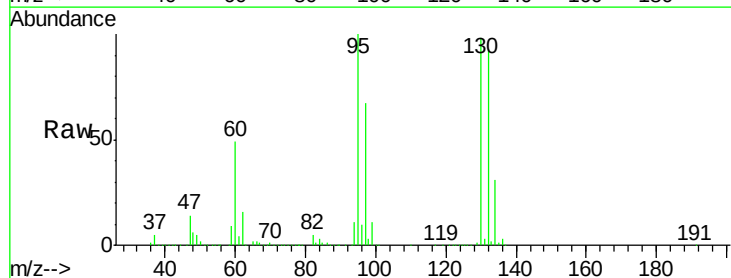
Acq: 19 Sep 2019 17:07

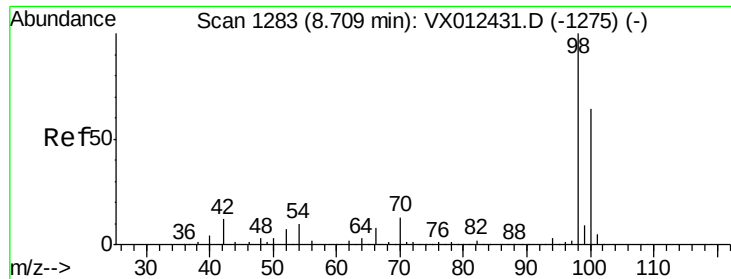
Tgt Ion:130 Resp: 9283302

Ion Ratio Lower Upper

130 100

95 102.3 0.0 193.0

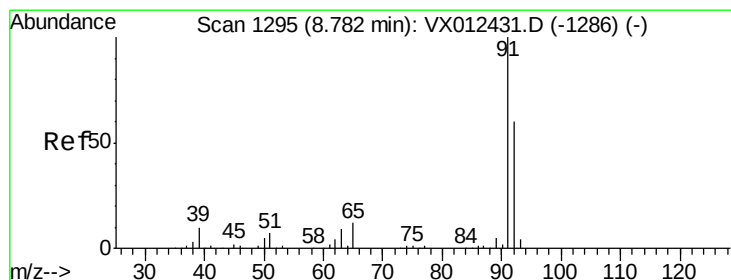
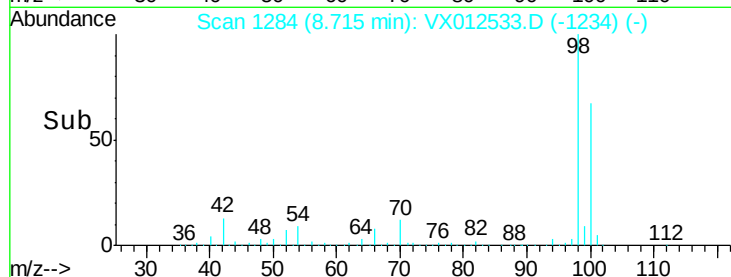
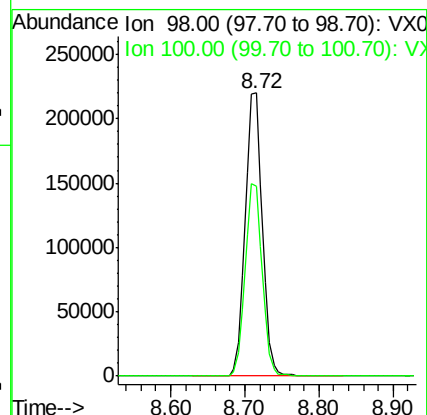
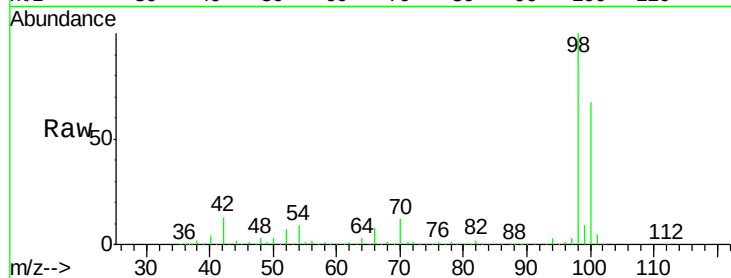




#50  
Toluene-d8  
Concen: 51.370 ug/l  
RT: 8.72 min Scan# 1284  
Delta R.T. 0.01 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

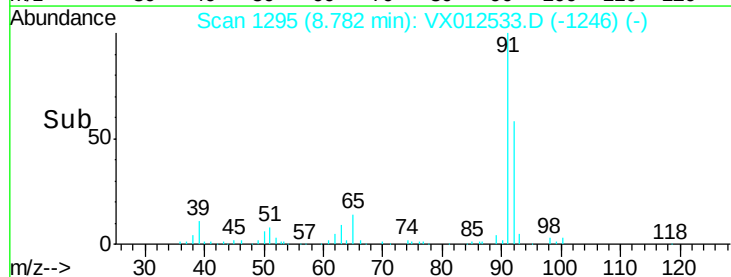
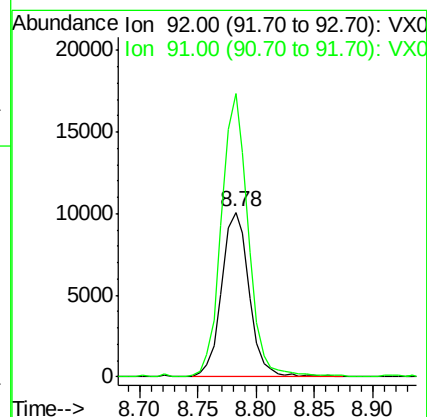
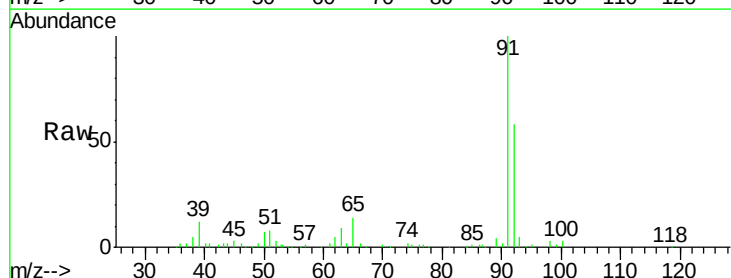
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP-20190911

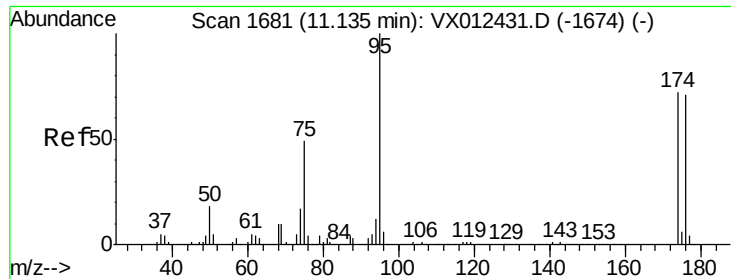
Tot Ion: 98 Resp: 358257  
Ion Ratio Lower Upper  
98 100  
100 67.5 53.4 80.2



#52  
Toluene  
Concen: 4.253 ug/l  
RT: 8.78 min Scan# 1295  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Tgt Ion: 92 Resp: 16488  
Ion Ratio Lower Upper  
92 100  
91 167.6 135.4 203.0

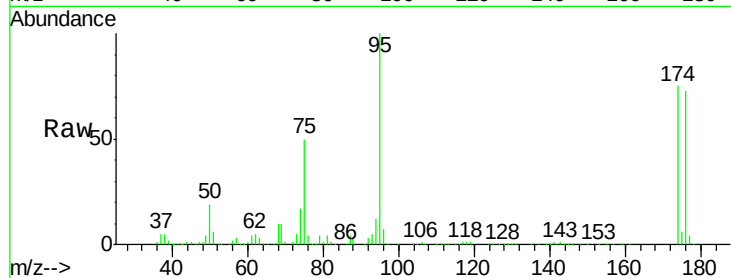




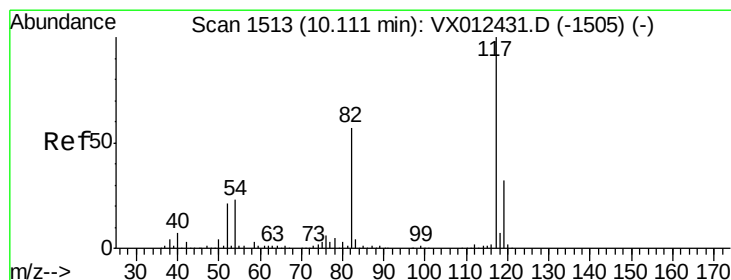
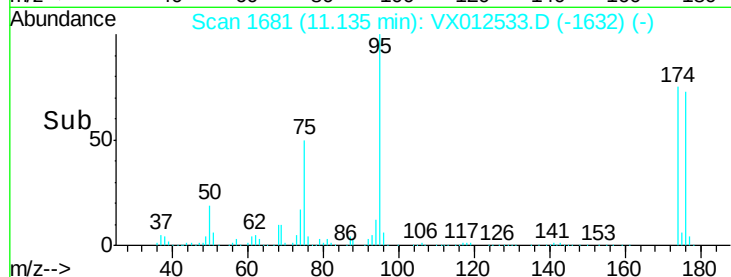
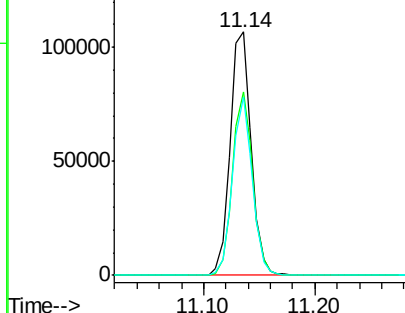
#62  
4-Bromofluorobenzene  
Concen: 48.030 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Instrument :  
MSVOA\_X  
ClientSampled :  
DUP-20190911

Tot Ion: 95 Resp: 139080  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 140.0  
176 69.0 0.0 135.4

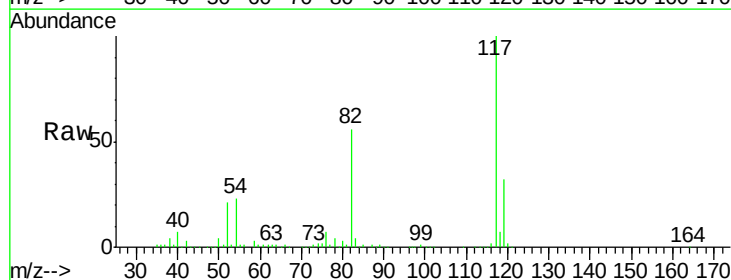


Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

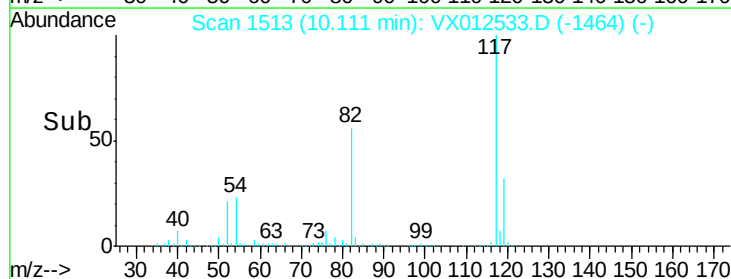
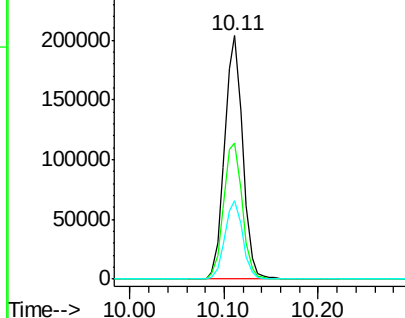


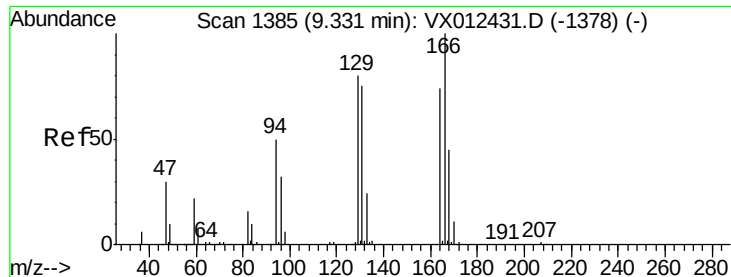
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Tgt Ion: 117 Resp: 271253  
Ion Ratio Lower Upper  
117 100  
82 56.1 45.9 68.9  
119 32.0 25.3 37.9



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





#64

Tetrachloroethene

Concen: 12015.754 ug/l

RT: 9.36 min Scan# 1390

Delta R.T. 0.03 min

Lab File: VX012533.D

Acq: 19 Sep 2019 17:07

Instrument :

MSVOA\_X

ClientSampled :

DUP-20190911

Tot Ion:164 Resp:14935394

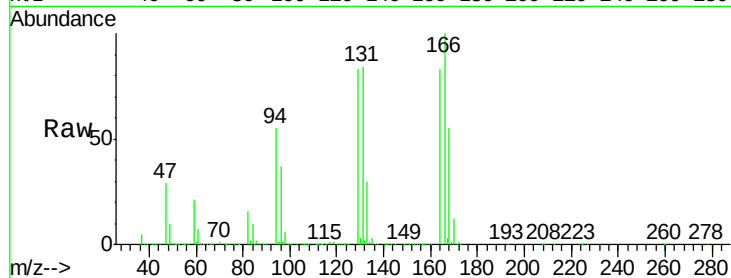
Ion Ratio Lower Upper

164 100

166 119.8 107.8 161.6

129 99.7 86.2 129.2

131 100.2 80.4 120.6

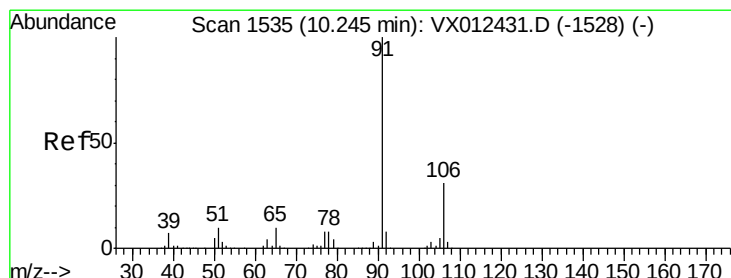
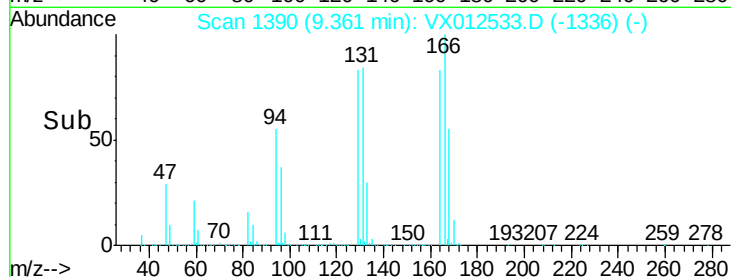
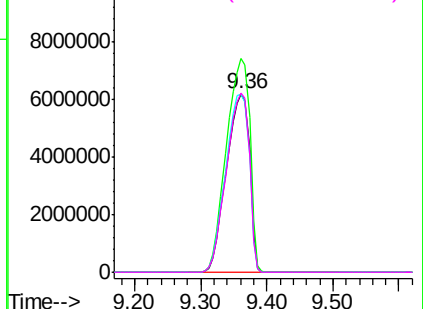


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 1.129 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX012533.D

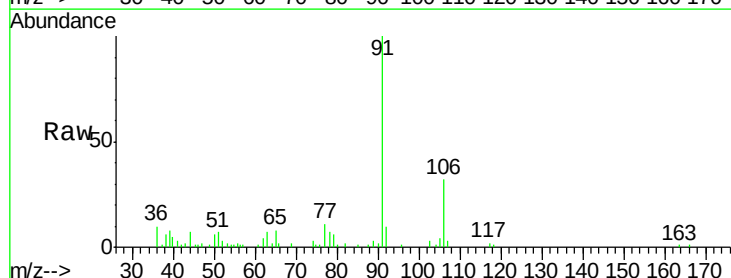
Acq: 19 Sep 2019 17:07

Tgt Ion: 91 Resp: 8686

Ion Ratio Lower Upper

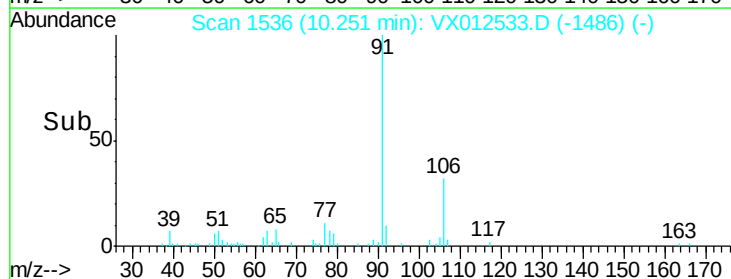
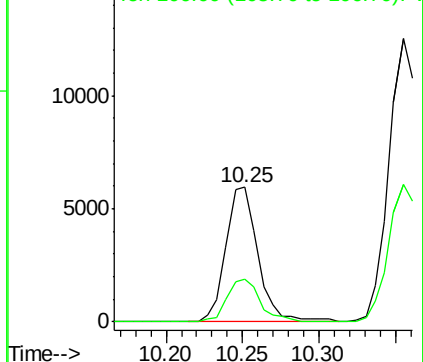
91 100

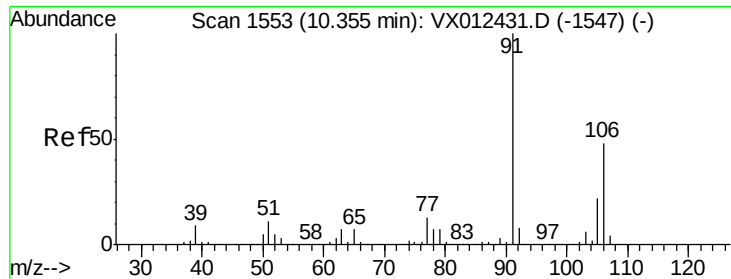
106 32.1 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

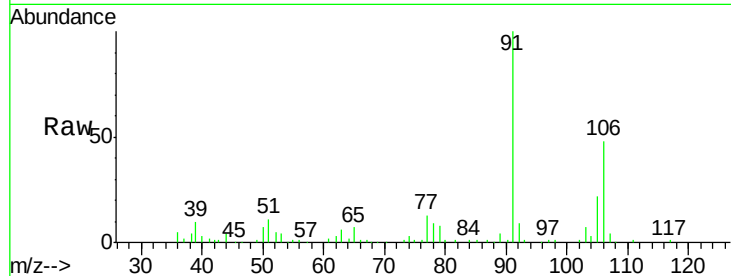




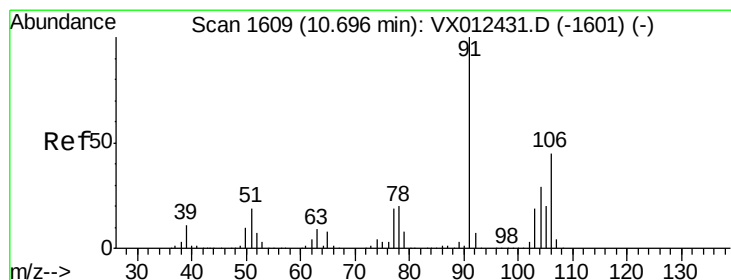
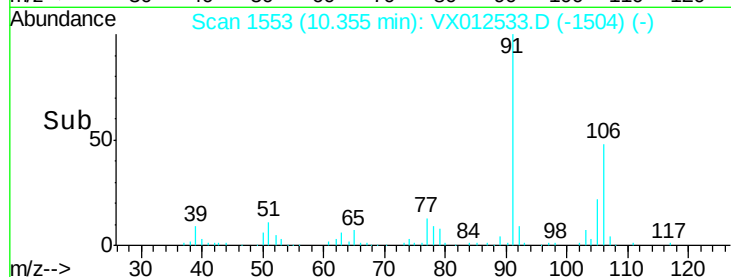
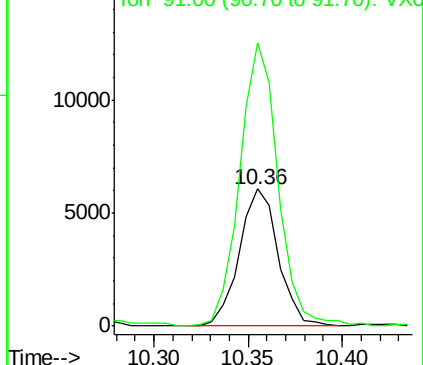
#68  
m/p-Xylenes  
Concen: 3.121 ug/l  
RT: 10.36 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP-20190911

Tot Ion:106 Resp: 8734  
Ion Ratio Lower Upper  
106 100  
91 201.7 166.6 250.0

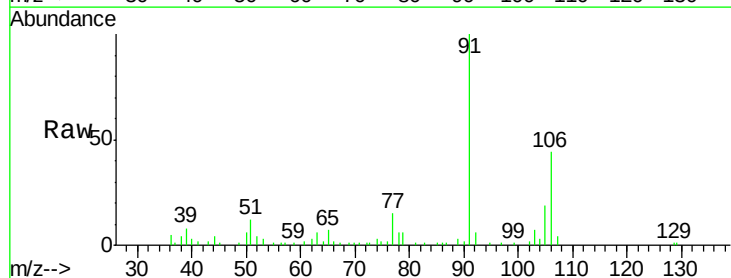


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

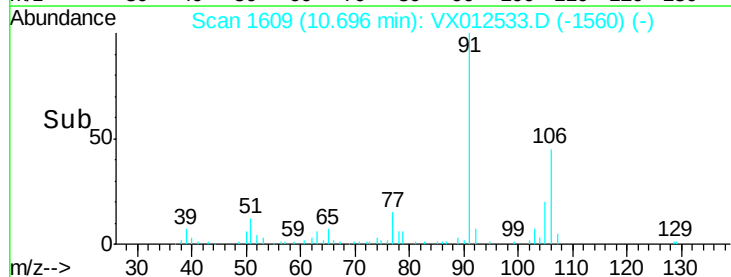
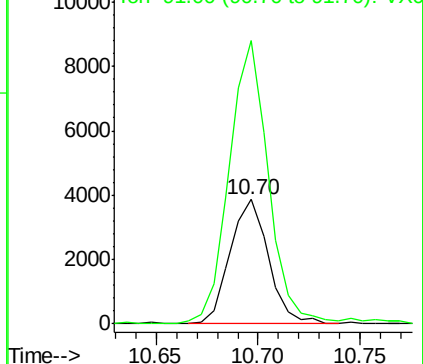


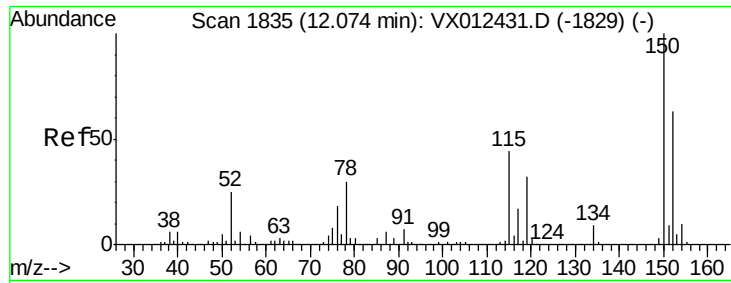
#69  
o-Xylene  
Concen: 1.758 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Tgt Ion:106 Resp: 5059  
Ion Ratio Lower Upper  
106 100  
91 230.7 109.4 328.2



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



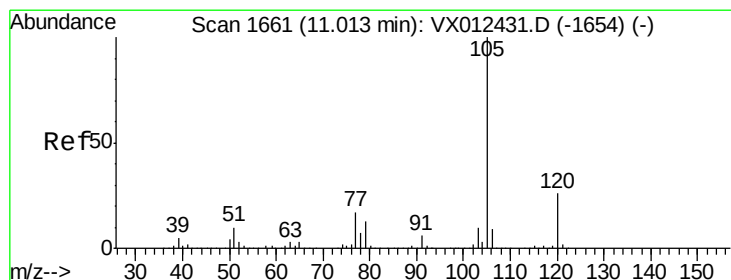
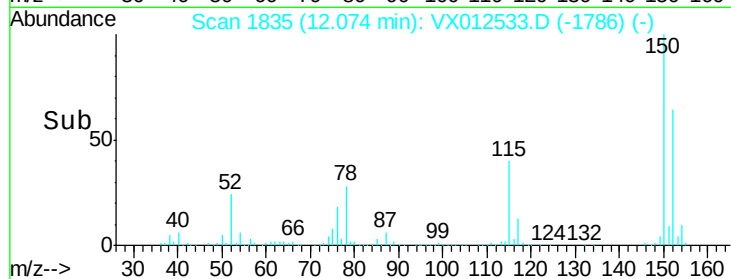
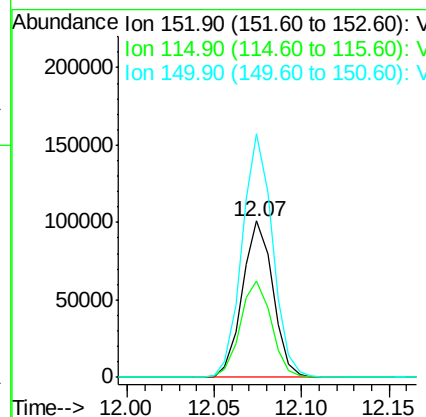
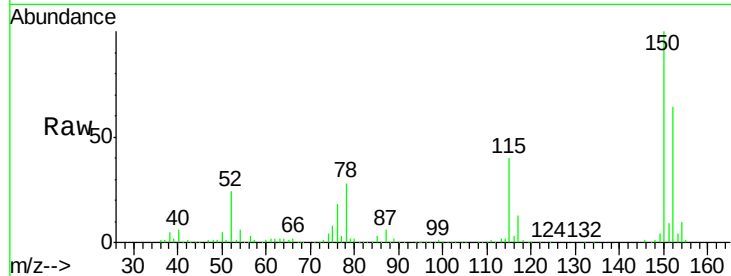


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP-20190911

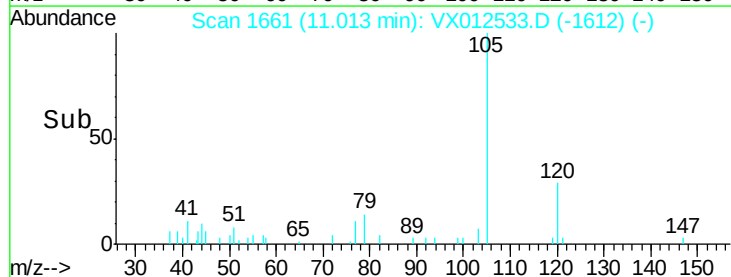
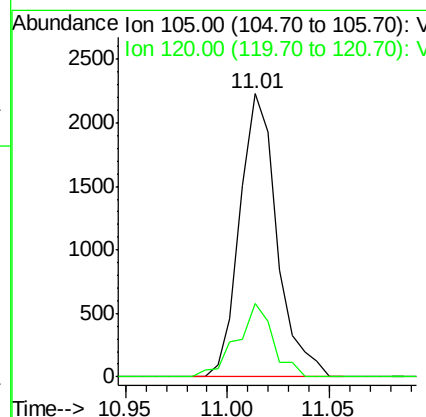
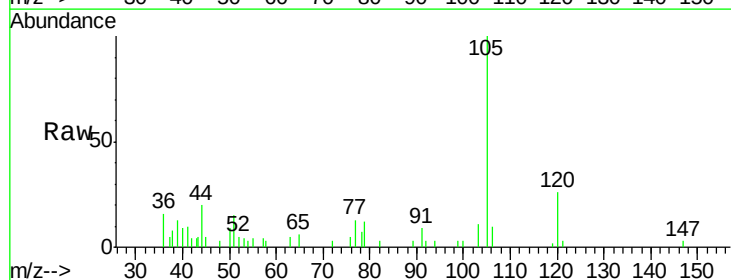
Tot Ion:152 Resp: 122510  
Ion Ratio Lower Upper  
152 100  
115 62.9 44.1 132.3  
150 156.0 0.0 343.8

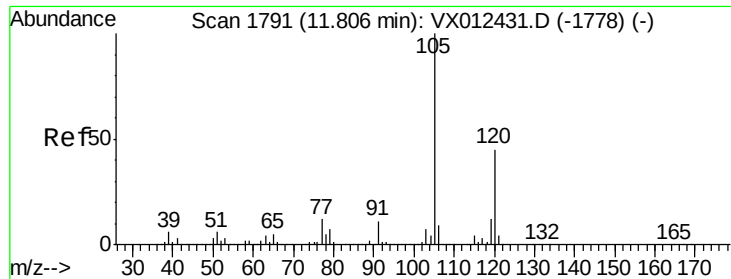


#73

Isopropylbenzene  
Concen: 0.366 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. 0.00 min  
Lab File: VX012533.D  
Acq: 19 Sep 2019 17:07

Tgt Ion:105 Resp: 2817  
Ion Ratio Lower Upper  
105 100  
120 25.1 12.9 38.7

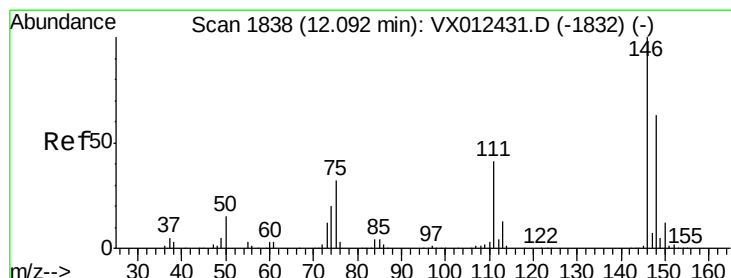
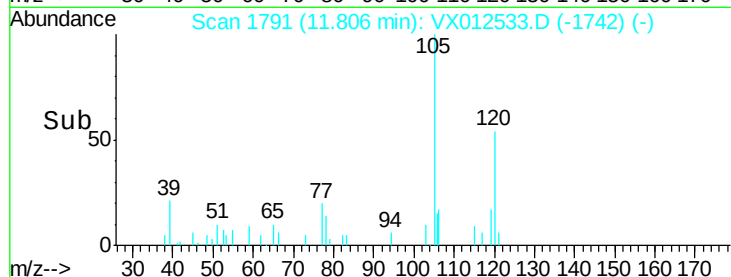
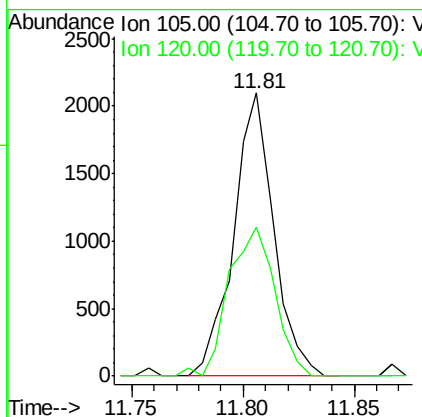
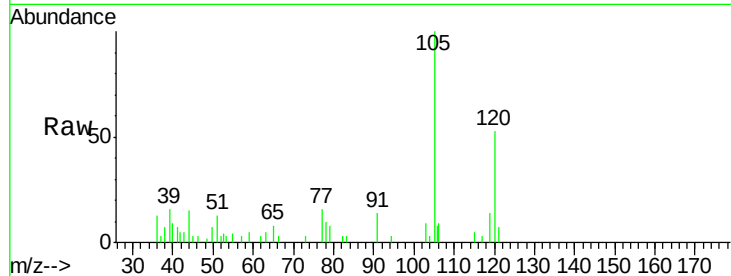




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.392 ug/l  
 RT: 11.81 min Scan# 1791  
 Delta R.T. 0.00 min  
 Lab File: VX012533.D  
 Acq: 19 Sep 2019 17:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP-20190911

Tot Ion:105 Resp: 2636  
 Ion Ratio Lower Upper  
 105 100  
 120 60.1 22.2 66.6



#88  
 1,4-Dichlorobenzene  
 Concen: 5.342 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. 0.00 min  
 Lab File: VX012533.D  
 Acq: 19 Sep 2019 17:07

Tgt Ion:146 Resp: 19349  
 Ion Ratio Lower Upper  
 146 100  
 111 50.1 21.1 63.3  
 148 65.8 32.1 96.5

