

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX093019\  
 Data File : VX012700.D  
 Acq On : 30 Sep 2019 13:12  
 Operator : JC/SP  
 Sample : K5081-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FT-MW10I-20190925

Quant Time: Oct 01 03:45:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 175559   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 302442   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 256865   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 101352   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 122222   | 47.81 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.62%  |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 91118    | 50.59 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.18% |      |
| 50) Toluene-d8              | 8.71   | 98  | 357975   | 51.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.22% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 122843   | 45.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.08%  |      |

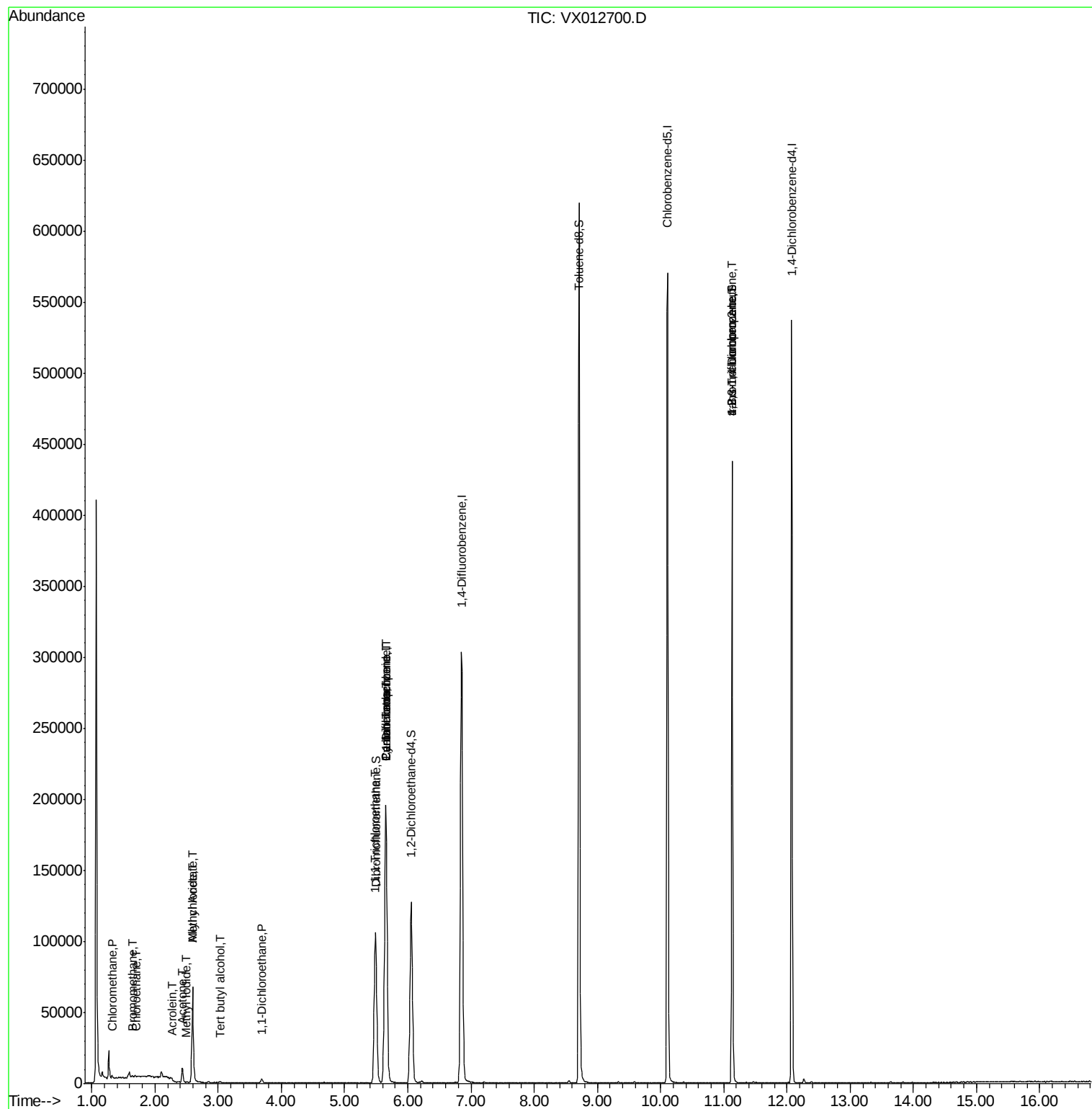
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1127     | 0.497  | ug/l   | 100    |
| 5) Bromomethane                | 1.65  | 94   | 424      | 0.478  | ug/l   | 86     |
| 6) Chloroethane                | 1.70  | 64   | 652      | 0.429  | ug/l # | 45     |
| 10) Methyl Iodide              | 2.50  | 142  | 267      | 5.071  | ug/l # | 56     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 726      | 1.137  | ug/l # | 79     |
| 13) Acrolein                   | 2.28  | 56   | 156      | 10.653 | ug/l # | 15     |
| 14) Allyl chloride             | 2.59  | 41   | 6552     | 1.750  | ug/l # | 62     |
| 16) Acetone                    | 2.43  | 43   | 10727    | 7.922  | ug/l   | 92     |
| 18) Methyl Acetate             | 2.59  | 43   | 17155    | 5.380  | ug/l # | 54     |
| 24) 1,1-Dichloroethane         | 3.69  | 63   | 3194     | 0.812  | ug/l # | 89     |
| 31) Cyclohexane                | 5.65  | 56   | 4347     | 1.222  | ug/l # | 15     |
| 32) 1,1,1-Trichloroethane      | 5.48  | 97   | 1225     | 0.343  | ug/l # | 52     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14931    | 5.122  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 19381    | 6.545  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 62993    | 23.496 | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 62993    | 67.334 | ug/l # | 8      |

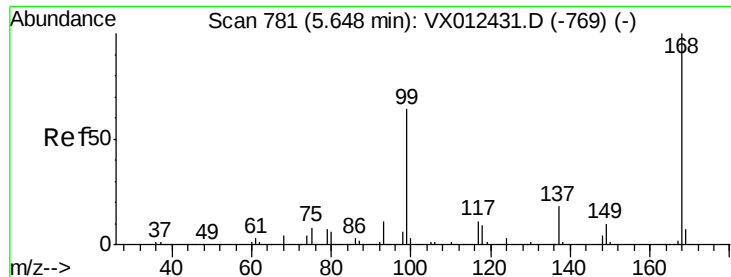
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX093019\  
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Quant Time: Oct 01 03:45:52 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 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: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

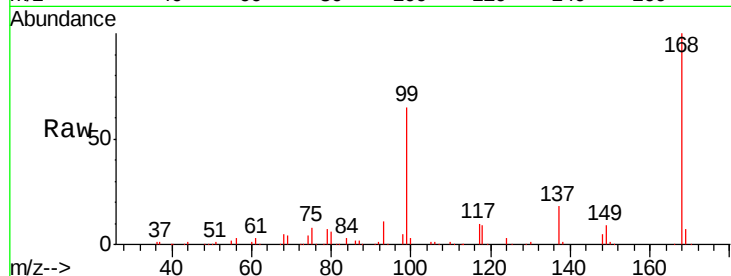
FT-MW10I-20190925

Tgt Ion:168 Resp: 175559

Ion Ratio Lower Upper

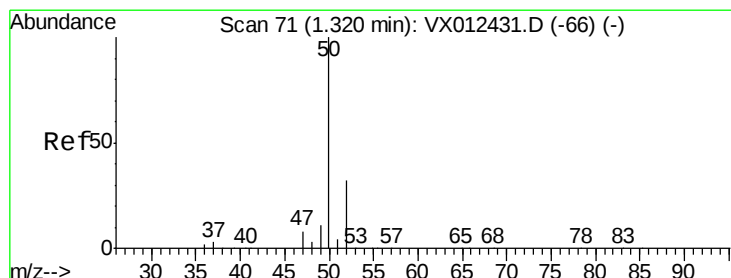
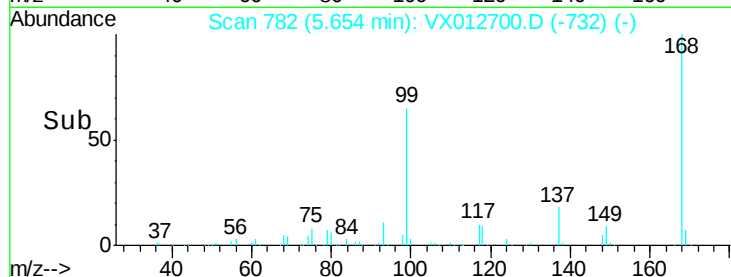
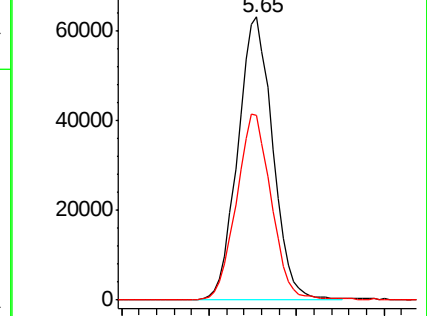
168 100

99 65.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.497 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012700.D

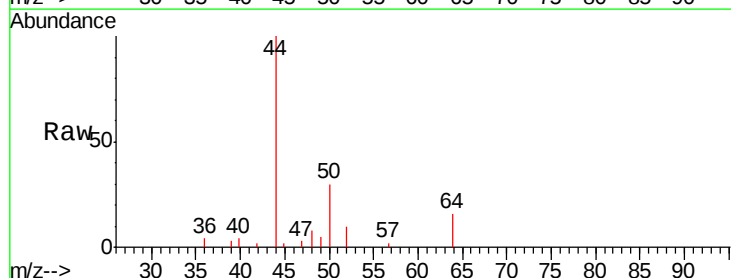
Acq: 30 Sep 2019 13:12

Tgt Ion: 50 Resp: 1127

Ion Ratio Lower Upper

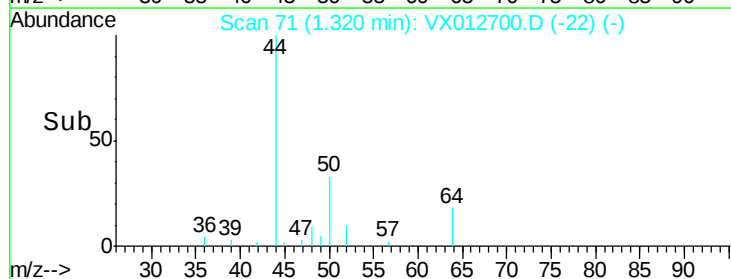
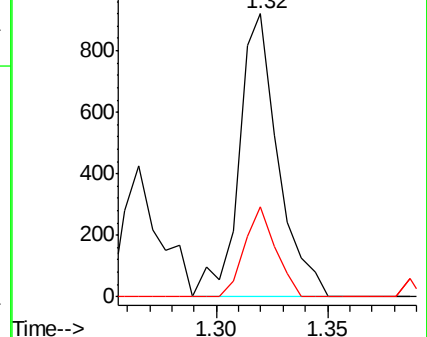
50 100

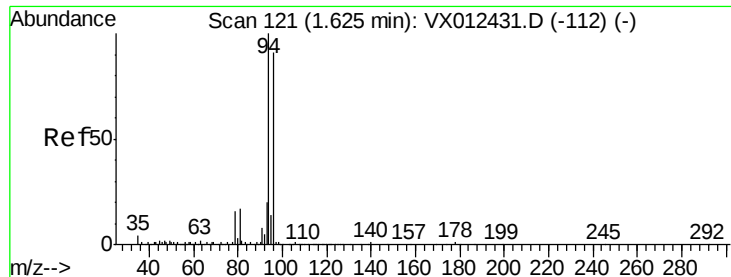
52 32.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.478 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

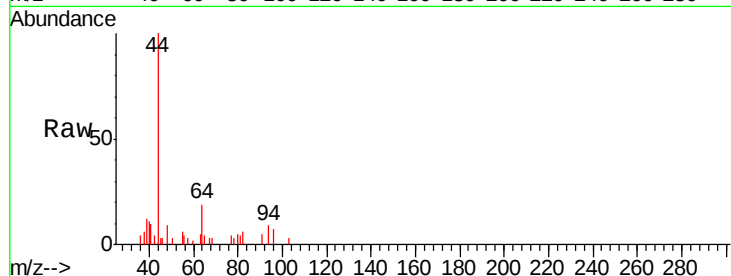
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Tgt Ion: 94 Resp: 424

Ion Ratio Lower Upper

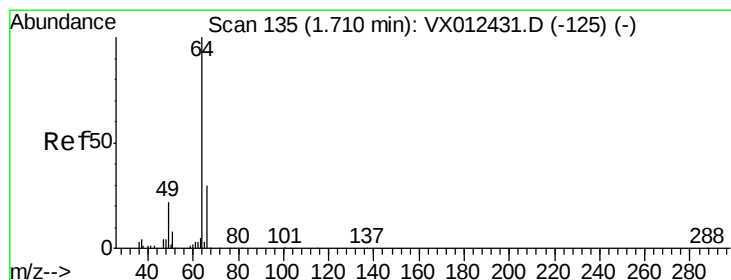
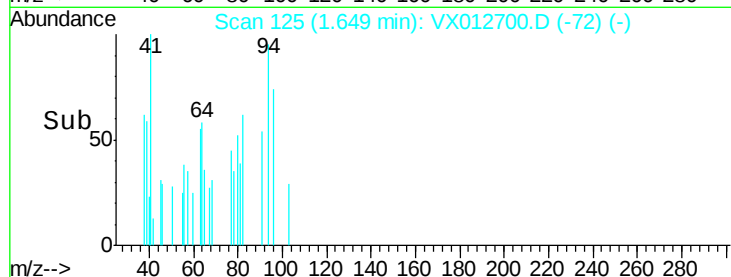
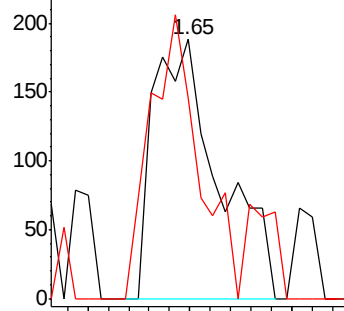
94 100

96 77.7 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.429 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012700.D

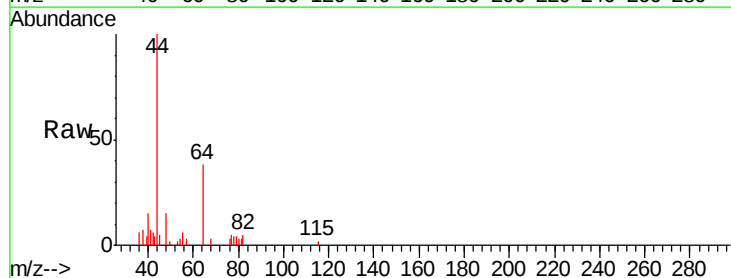
Acq: 30 Sep 2019 13:12

Tgt Ion: 64 Resp: 652

Ion Ratio Lower Upper

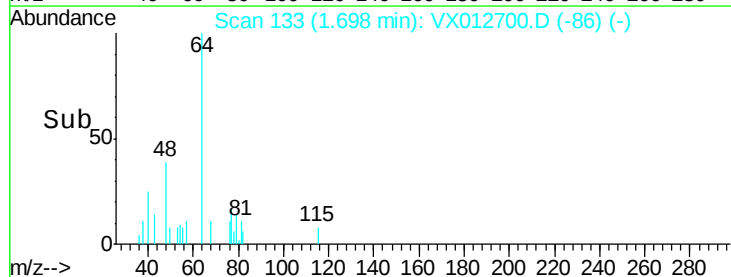
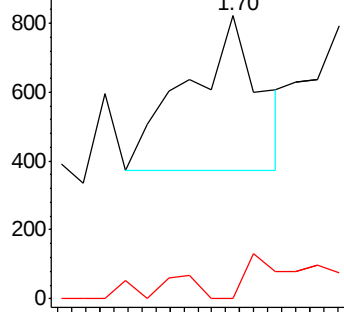
64 100

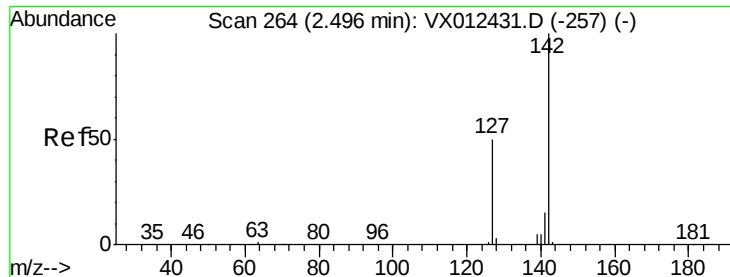
66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

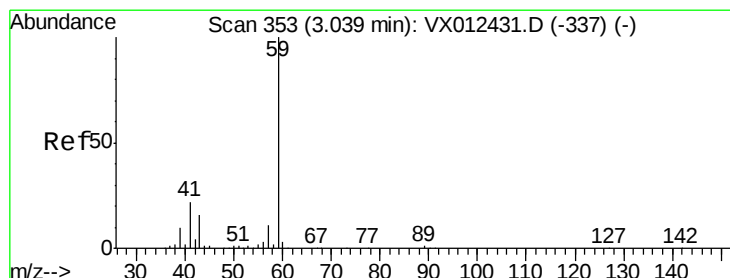
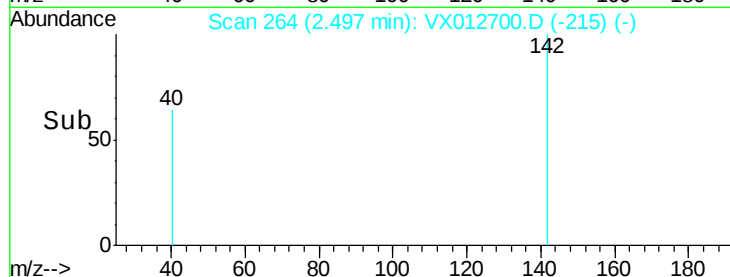
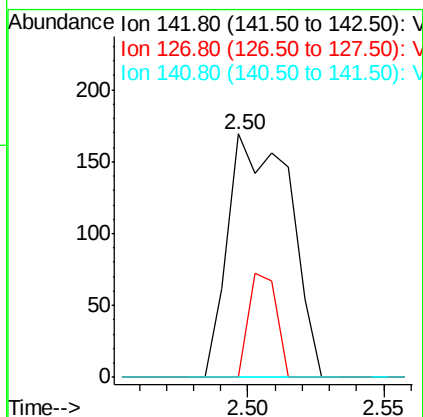
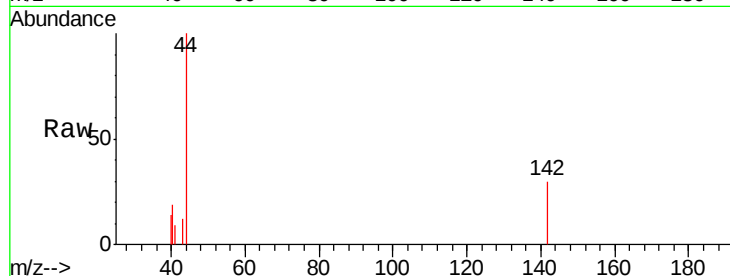




#10  
Methyl Iodide  
Concen: 5.071 ug/l  
RT: 2.50 min Scan# 264  
Delta R.T. 0.00 min  
Lab File: VX012700.D  
Acq: 30 Sep 2019 13:12

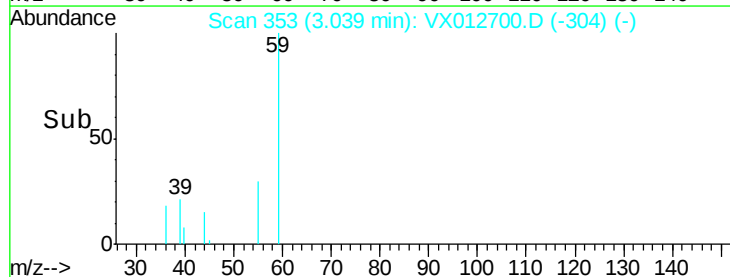
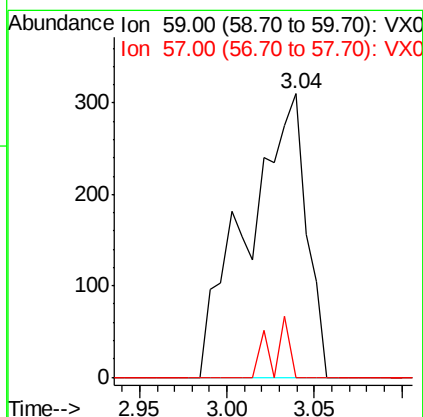
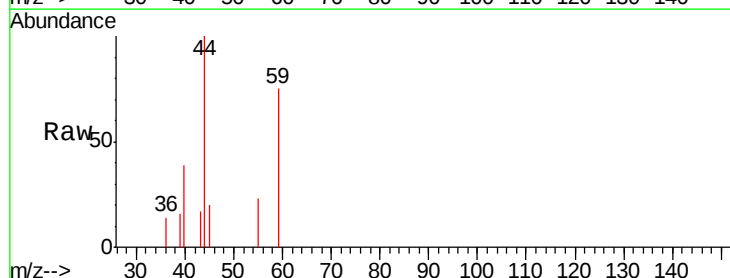
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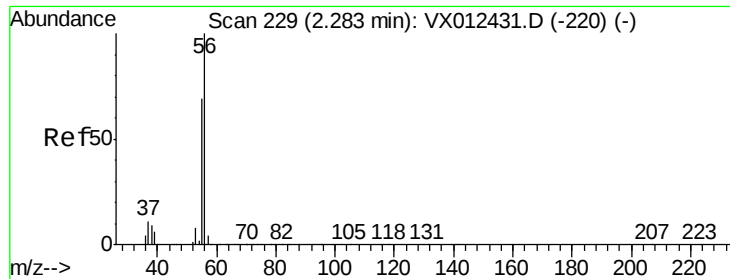
Tgt Ion: 142 Resp: 267  
Ion Ratio Lower Upper  
142 100  
127 19.1 40.8 61.2#  
141 0.0 12.1 18.1#



#11  
Tert butyl alcohol  
Concen: 1.137 ug/l  
RT: 3.04 min Scan# 353  
Delta R.T. 0.00 min  
Lab File: VX012700.D  
Acq: 30 Sep 2019 13:12

Tgt Ion: 59 Resp: 726  
Ion Ratio Lower Upper  
59 100  
57 2.6 8.3 12.5#





#13

Acrolein

Concen: 10.653 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

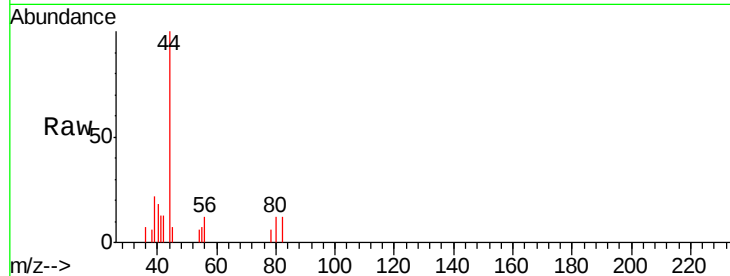
FT-MW10I-20190925

Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

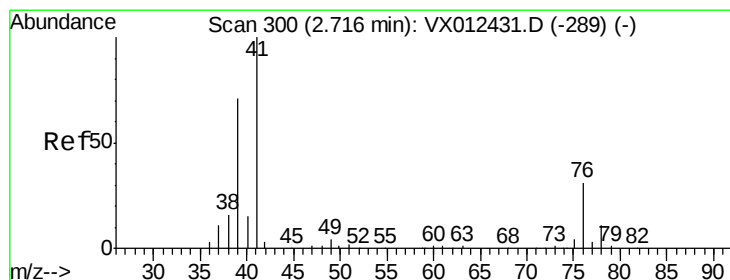
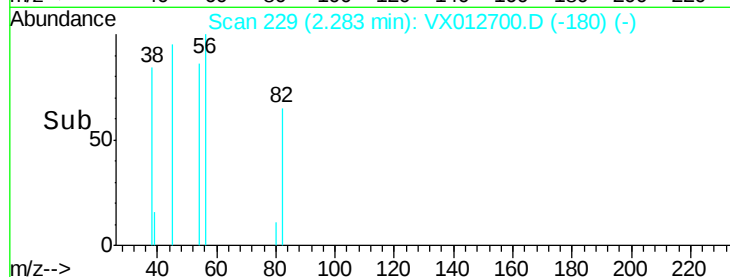
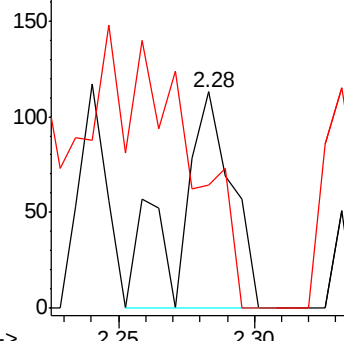
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 1.750 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

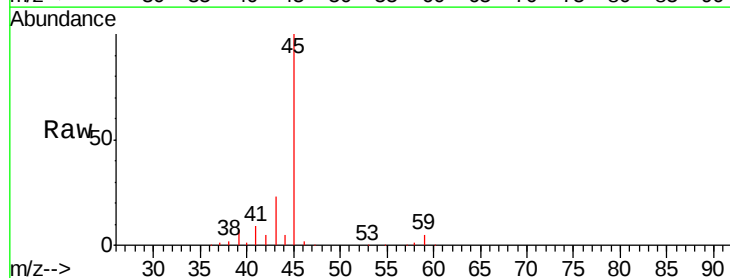
Tgt Ion: 41 Resp: 6552

Ion Ratio Lower Upper

41 100

39 88.1 51.3 76.9#

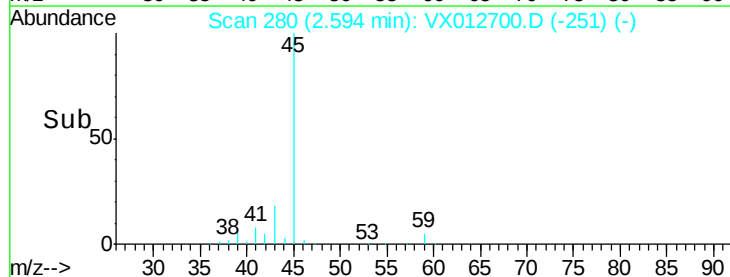
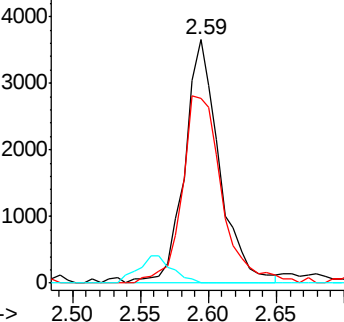
76 0.0 22.6 33.8#

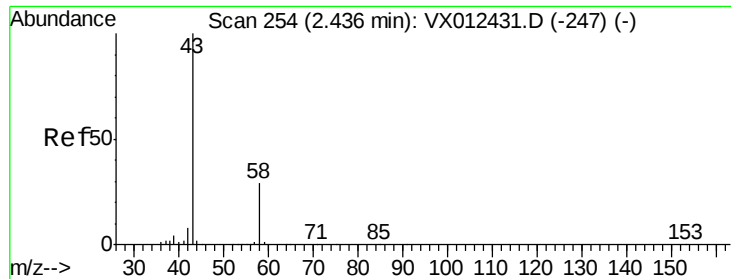


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 7.922 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

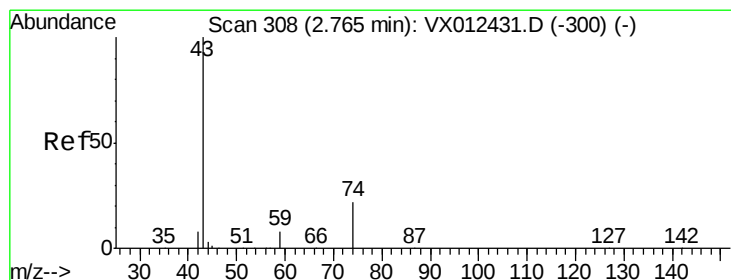
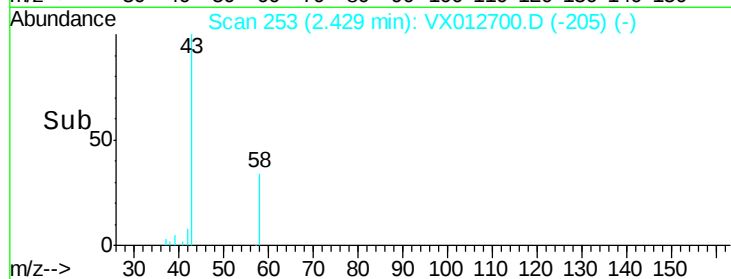
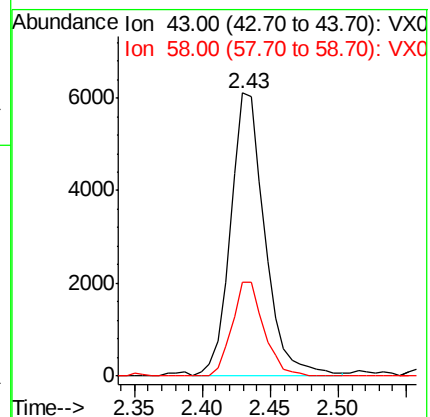
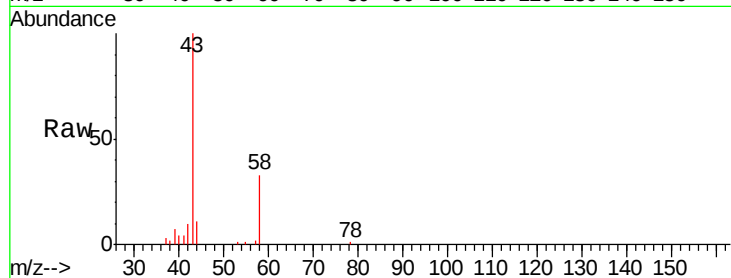
FT-MW10I-20190925

Tgt Ion: 43 Resp: 10727

Ion Ratio Lower Upper

43 100

58 33.3 23.3 34.9



#18

Methyl Acetate

Concen: 5.380 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012700.D

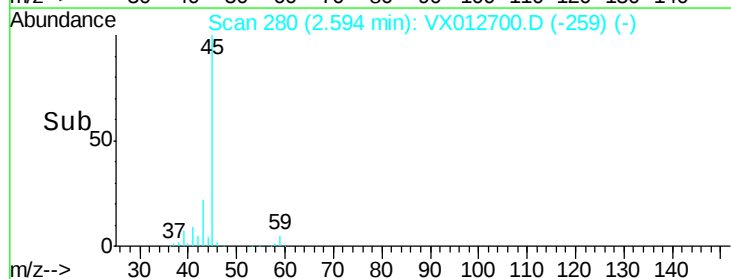
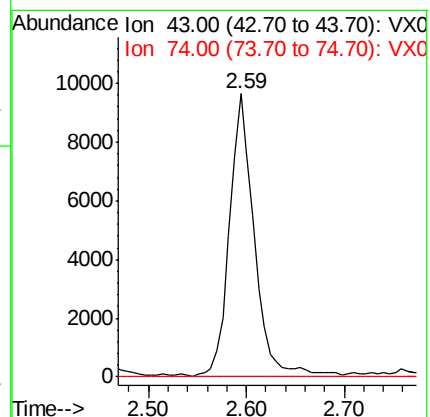
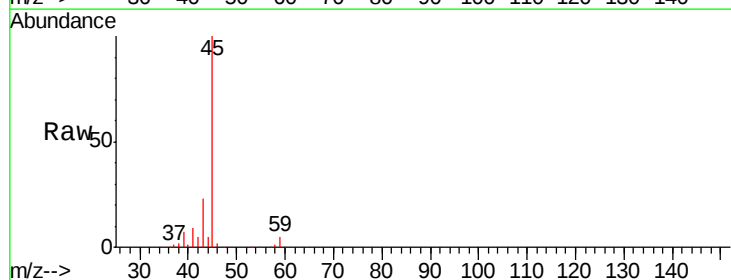
Acq: 30 Sep 2019 13:12

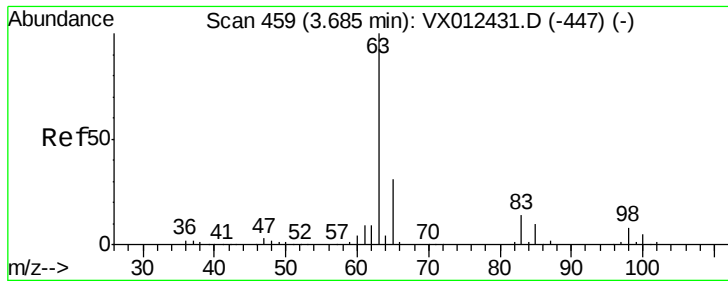
Tgt Ion: 43 Resp: 17155

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#24

1,1-Dichloroethane

Concen: 0.812 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

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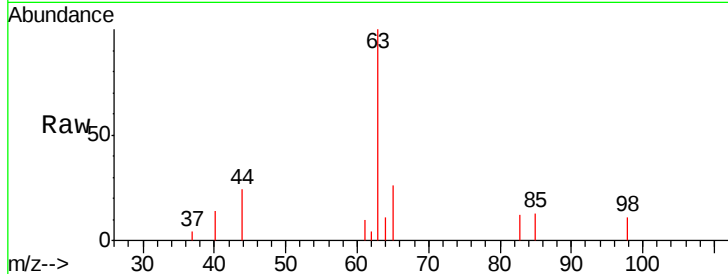
Tgt Ion: 63 Resp: 3194

Ion Ratio Lower Upper

63 100

98 11.3 3.9 11.7

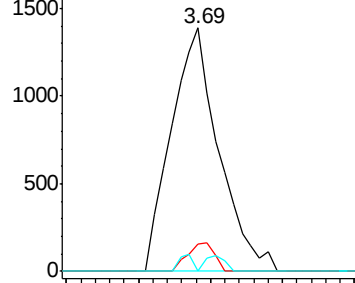
100 0.0 2.3 6.9#



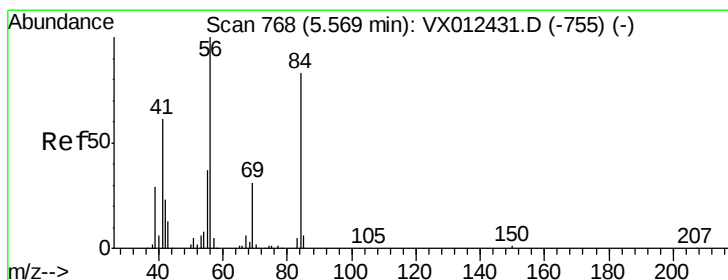
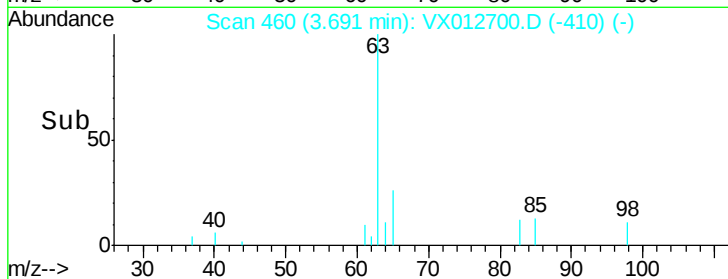
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



Time--> 3.60 3.65 3.70 3.75



#31

Cyclohexane

Concen: 1.222 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

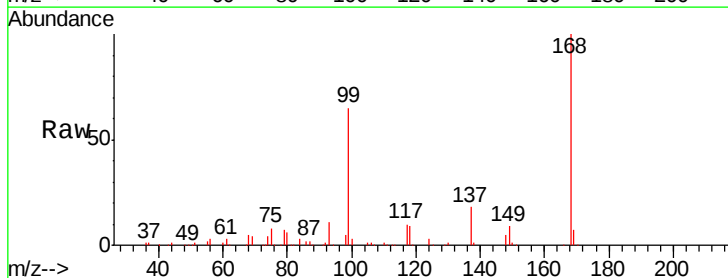
Tgt Ion: 56 Resp: 4347

Ion Ratio Lower Upper

56 100

69 155.1 25.0 37.6#

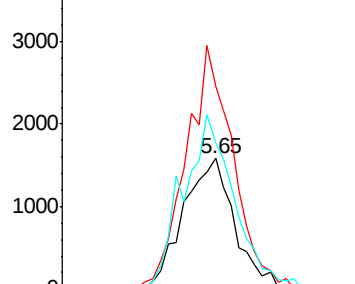
84 112.4 66.4 99.6#



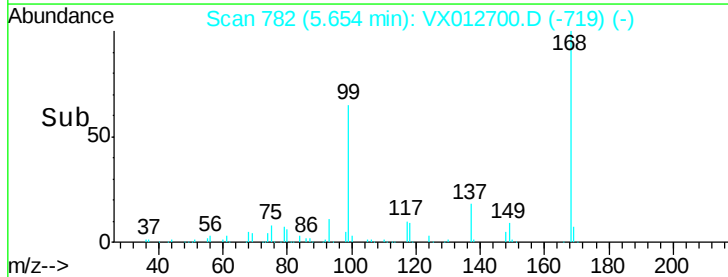
Abundance Ion 56.00 (55.70 to 56.70): VX0

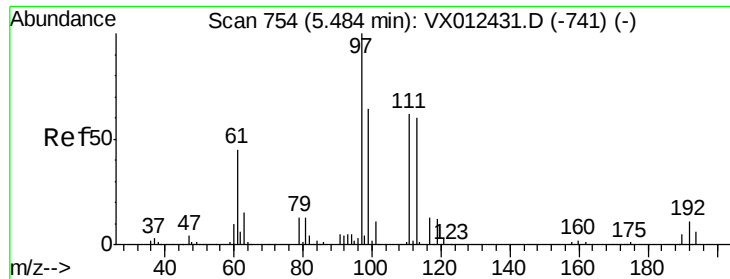
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time--> 5.55 5.60 5.65 5.70 5.75





#32

1,1,1-Trichloroethane

Concen: 0.343 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

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ClientSampleId :

FT-MW10I-20190925

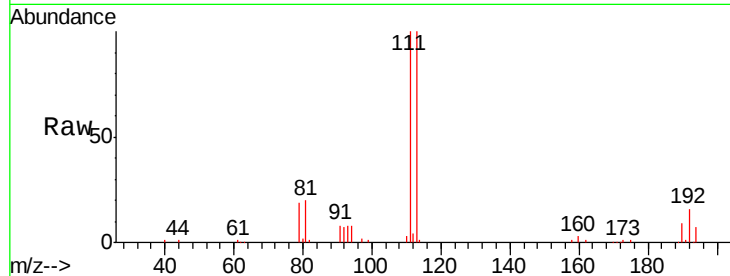
Tgt Ion: 97 Resp: 1225

Ion Ratio Lower Upper

97 100

99 0.0 51.3 76.9#

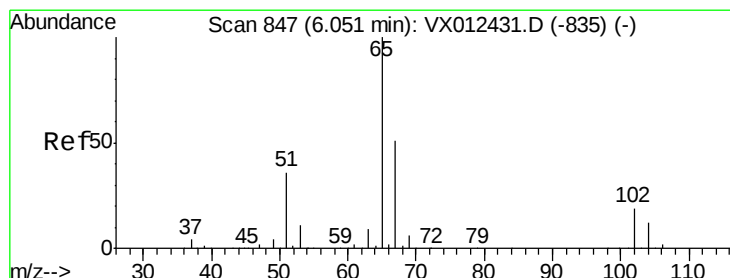
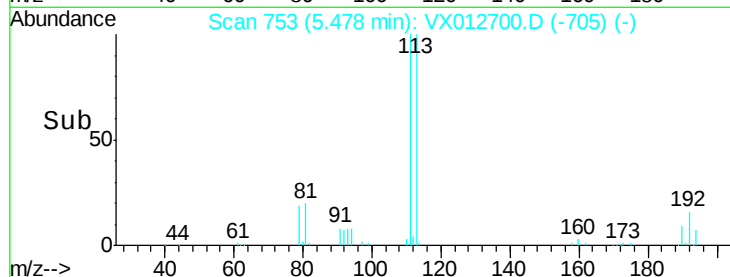
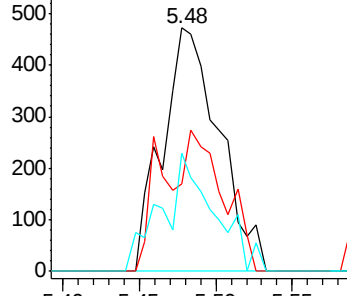
61 44.8 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.809 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012700.D

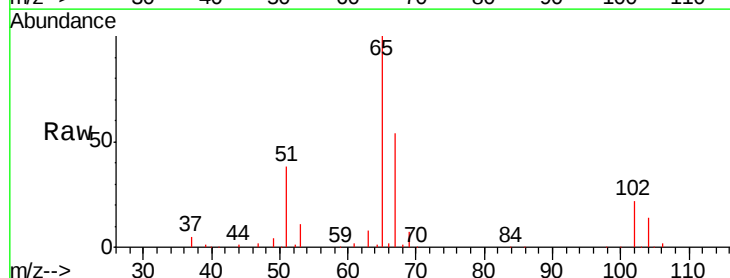
Acq: 30 Sep 2019 13:12

Tgt Ion: 65 Resp: 122222

Ion Ratio Lower Upper

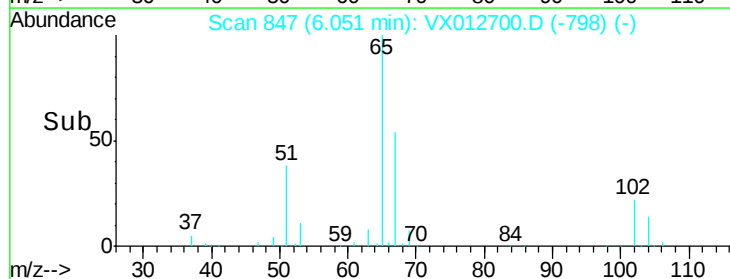
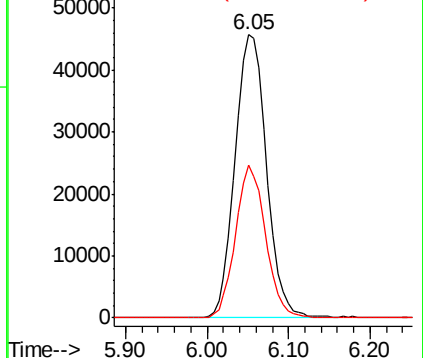
65 100

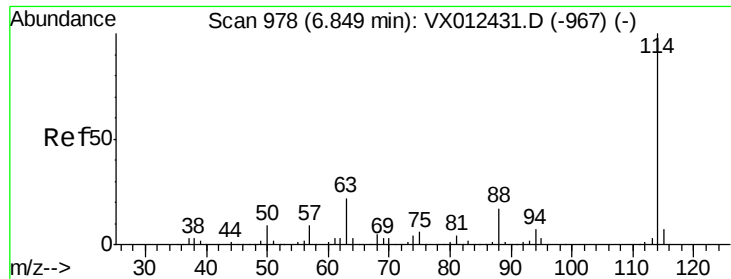
67 51.4 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

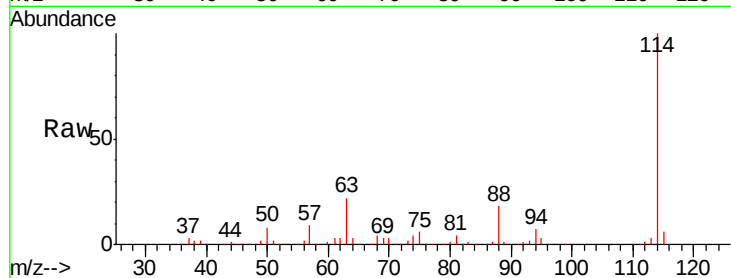




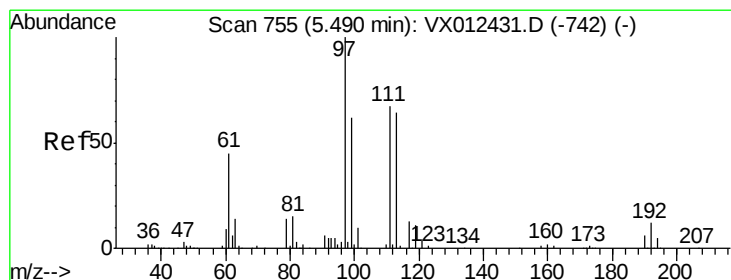
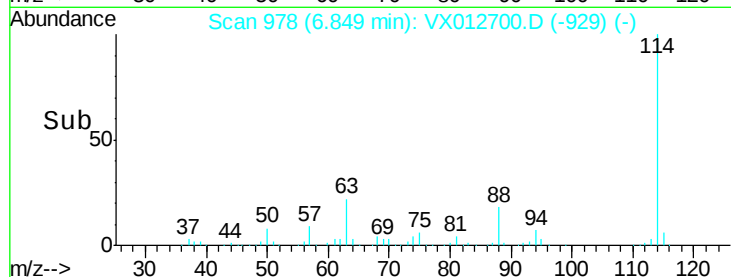
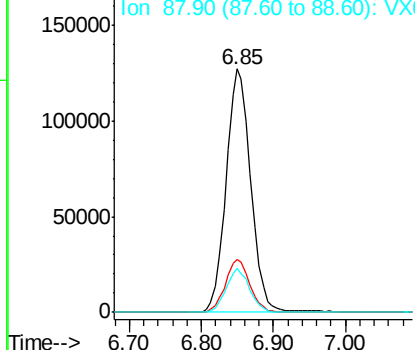
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX012700.D  
 Acq: 30 Sep 2019 13:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FT-MW10I-20190925

Tgt Ion:114 Resp: 302442  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 43.2  
 88 17.8 0.0 33.2

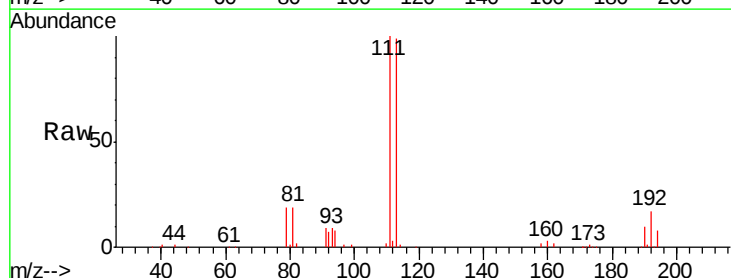


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX  
 Ion 87.90 (87.60 to 88.60): VX

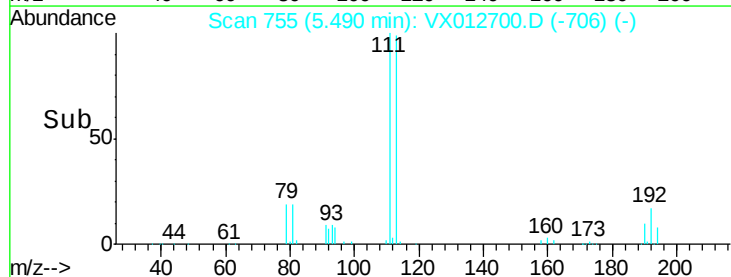
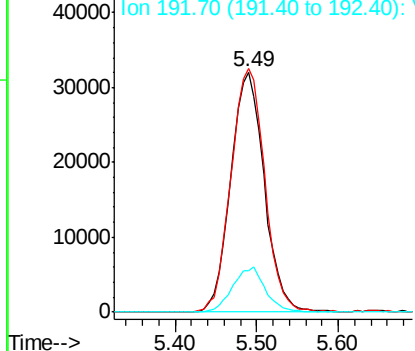


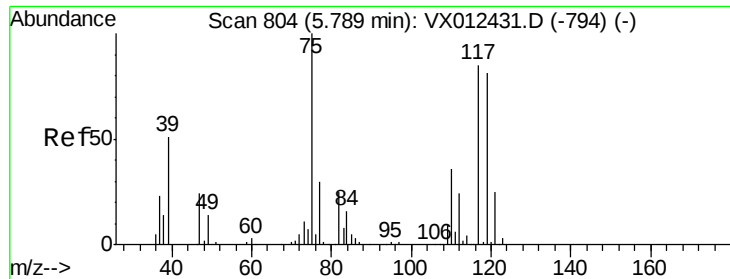
#35  
 Dibromofluoromethane  
 Concen: 50.588 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX012700.D  
 Acq: 30 Sep 2019 13:12

Tgt Ion:113 Resp: 91118  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 83.4 125.2  
 192 18.0 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

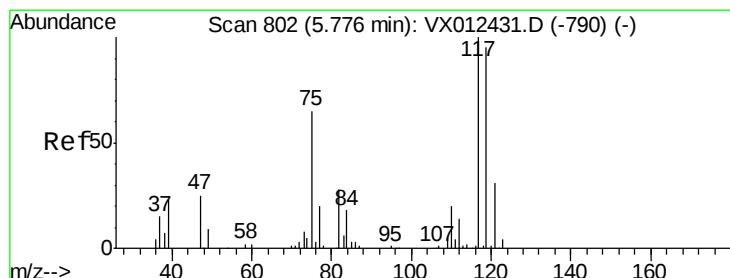
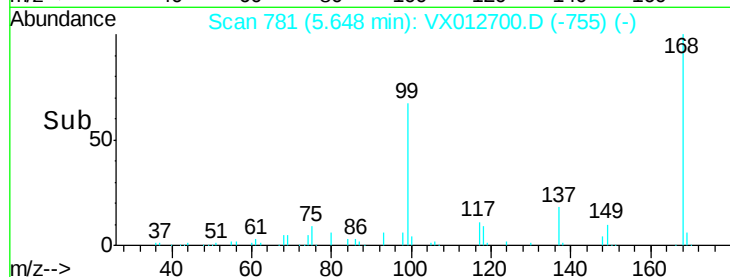
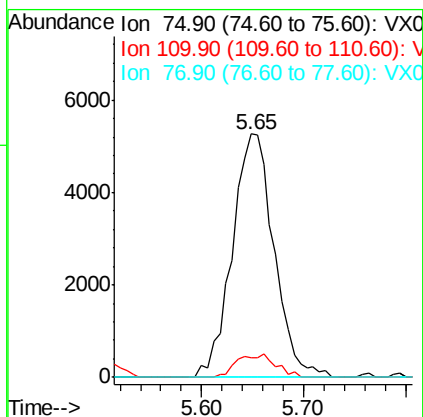
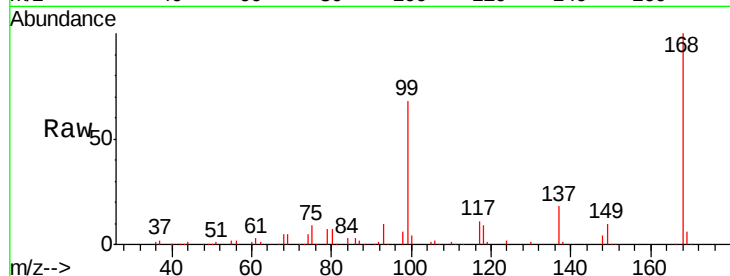




#36  
 1,1-Dichloropropene  
 Concen: 5.122 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012700.D  
 Acq: 30 Sep 2019 13:12

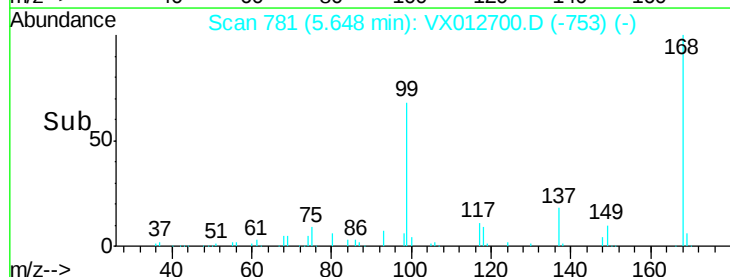
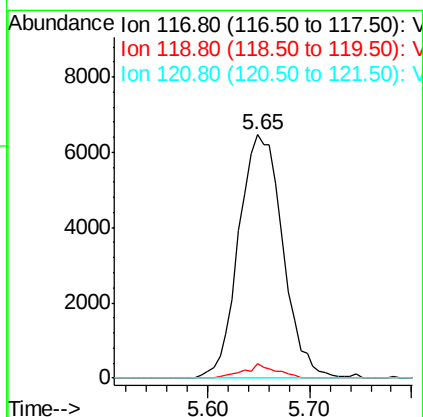
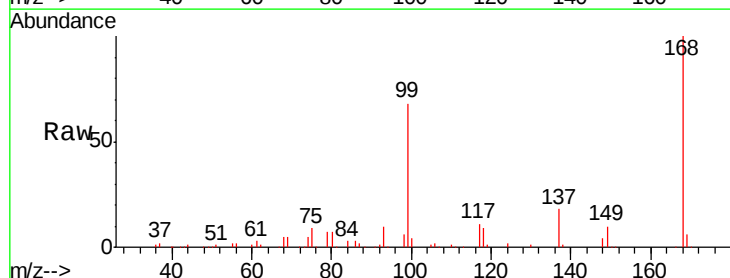
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FT-MW10I-20190925

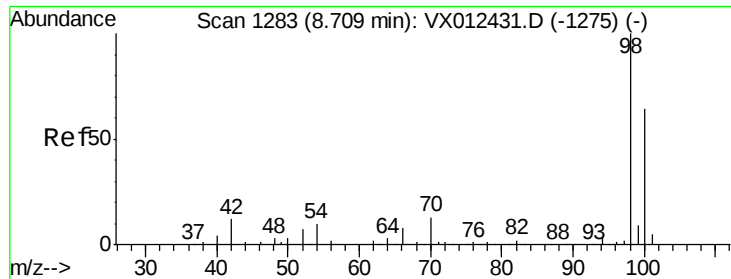
Tgt Ion: 75 Resp: 14931  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 16.7 50.0#  
 77 0.0 24.2 36.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.545 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.13 min  
 Lab File: VX012700.D  
 Acq: 30 Sep 2019 13:12

Tgt Ion: 117 Resp: 19381  
 Ion Ratio Lower Upper  
 117 100  
 119 5.9 75.7 113.5#  
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 51.608 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

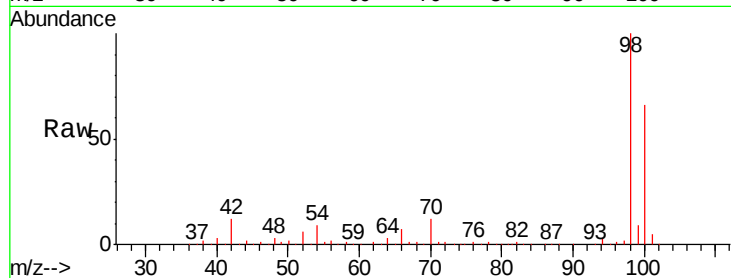
FT-MW10I-20190925

Tgt Ion: 98 Resp: 357975

Ion Ratio Lower Upper

98 100

100 67.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

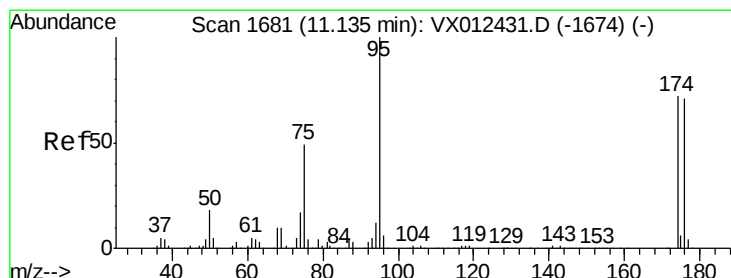
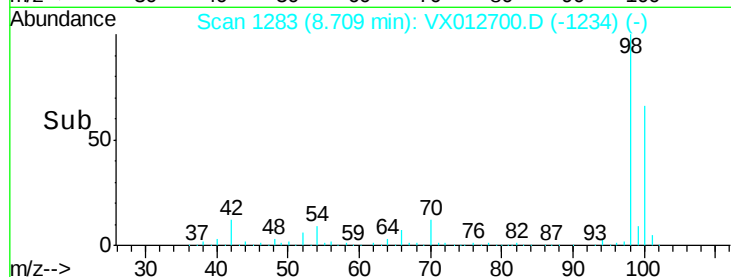
100000

50000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 45.040 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

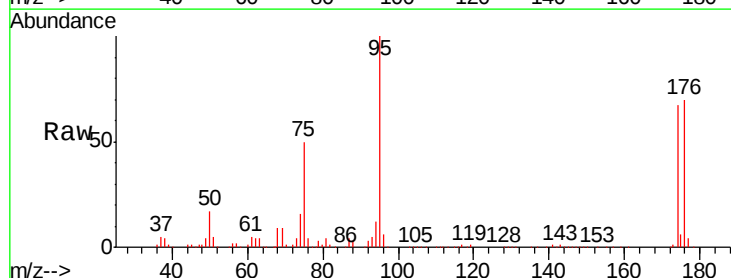
Tgt Ion: 95 Resp: 122843

Ion Ratio Lower Upper

95 100

174 68.1 0.0 140.0

176 67.3 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

120000

100000

80000

60000

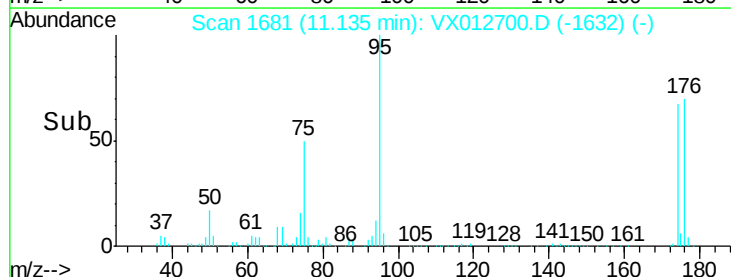
40000

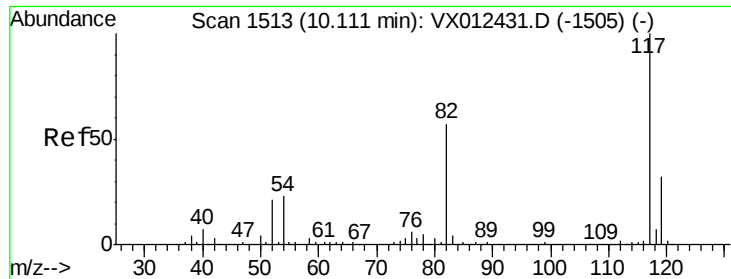
20000

0

11.10 11.20

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

FT-MW10I-20190925

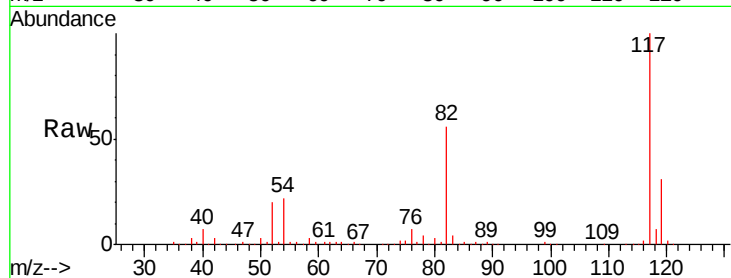
Tgt Ion:117 Resp: 256865

Ion Ratio Lower Upper

117 100

82 56.5 45.9 68.9

119 31.5 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

250000

200000

150000

100000

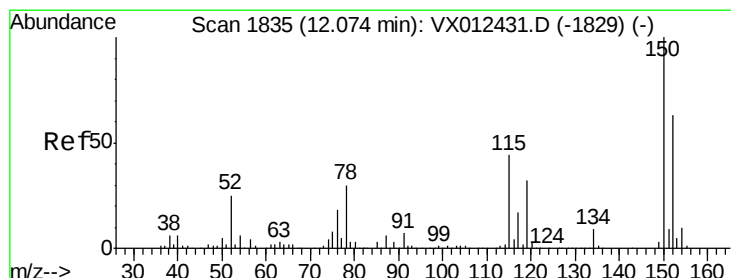
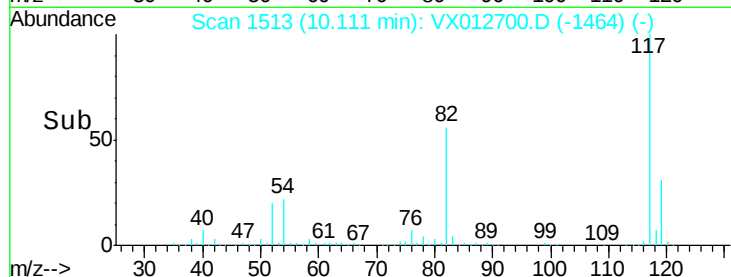
50000

0

10.11

10.00 10.10 10.20

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

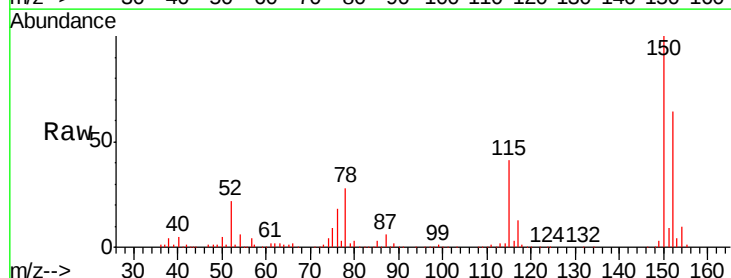
Tgt Ion:152 Resp: 101352

Ion Ratio Lower Upper

152 100

115 64.3 44.1 132.3

150 157.7 0.0 343.8



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

150000

100000

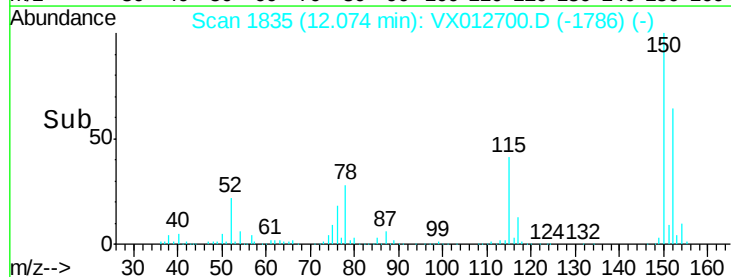
50000

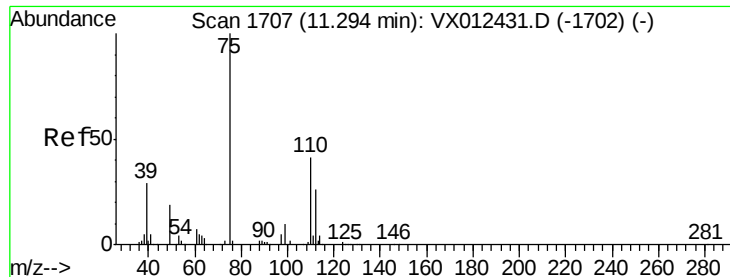
0

12.07

12.00 12.10

Time-->





#76

1,2,3-Trichloropropane

Concen: 23.496 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

Instrument :

MSVOA\_X

ClientSampleId :

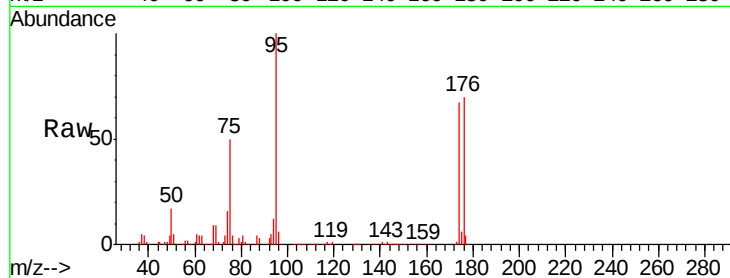
FT-MW10I-20190925

Tgt Ion: 75 Resp: 62993

Ion Ratio Lower Upper

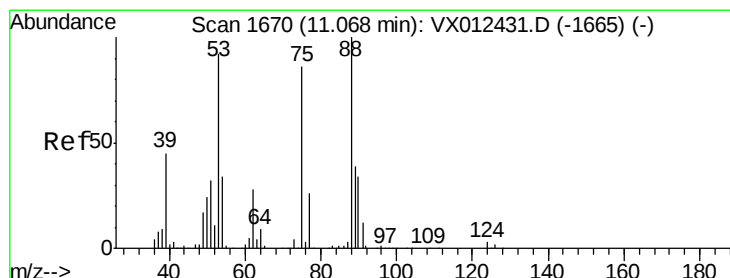
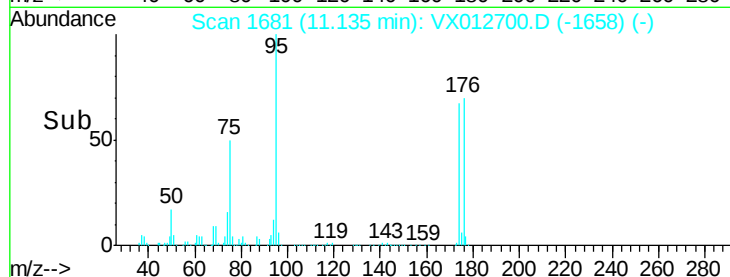
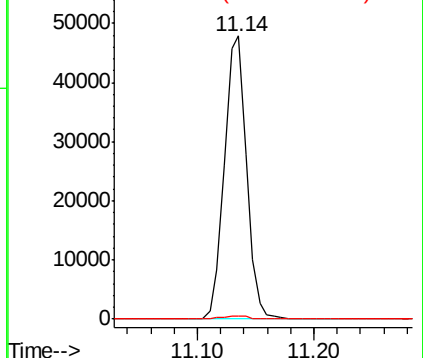
75 100

77 1.3 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.334 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012700.D

Acq: 30 Sep 2019 13:12

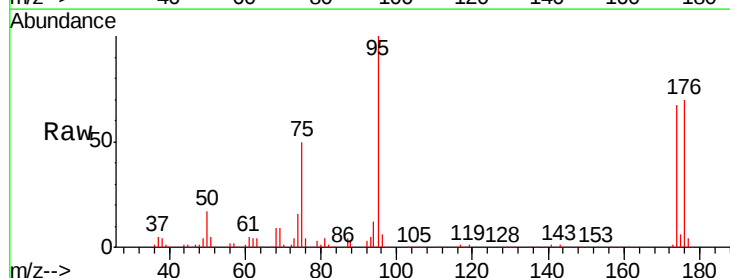
Tgt Ion: 75 Resp: 62993

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

