

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030519\  
 Data File : VX007845.D  
 Acq On : 05 Mar 2019 18:48  
 Operator : JC/SP  
 Sample : K1659-07RE  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 M1-T5-OZ(POST-HYPO)RE

Quant Time: Mar 06 00:13:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 78586    | 50.00 | ug/l  | -0.05    |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 39909    | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 154548   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 133141   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 3252     | 3.34   | ug/l    | -0.04    |
| Spiked Amount               |       |      | Recovery | =      | 6.68%   |          |
| 35) Dibromofluoromethane    | 5.44  | 113  | 2230     | 8.36   | ug/l    | -0.06    |
| Spiked Amount               |       |      | Recovery | =      | 16.72%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 164939   | 161.49 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =      | 322.98% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 104100   | 277.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 555.40% |          |

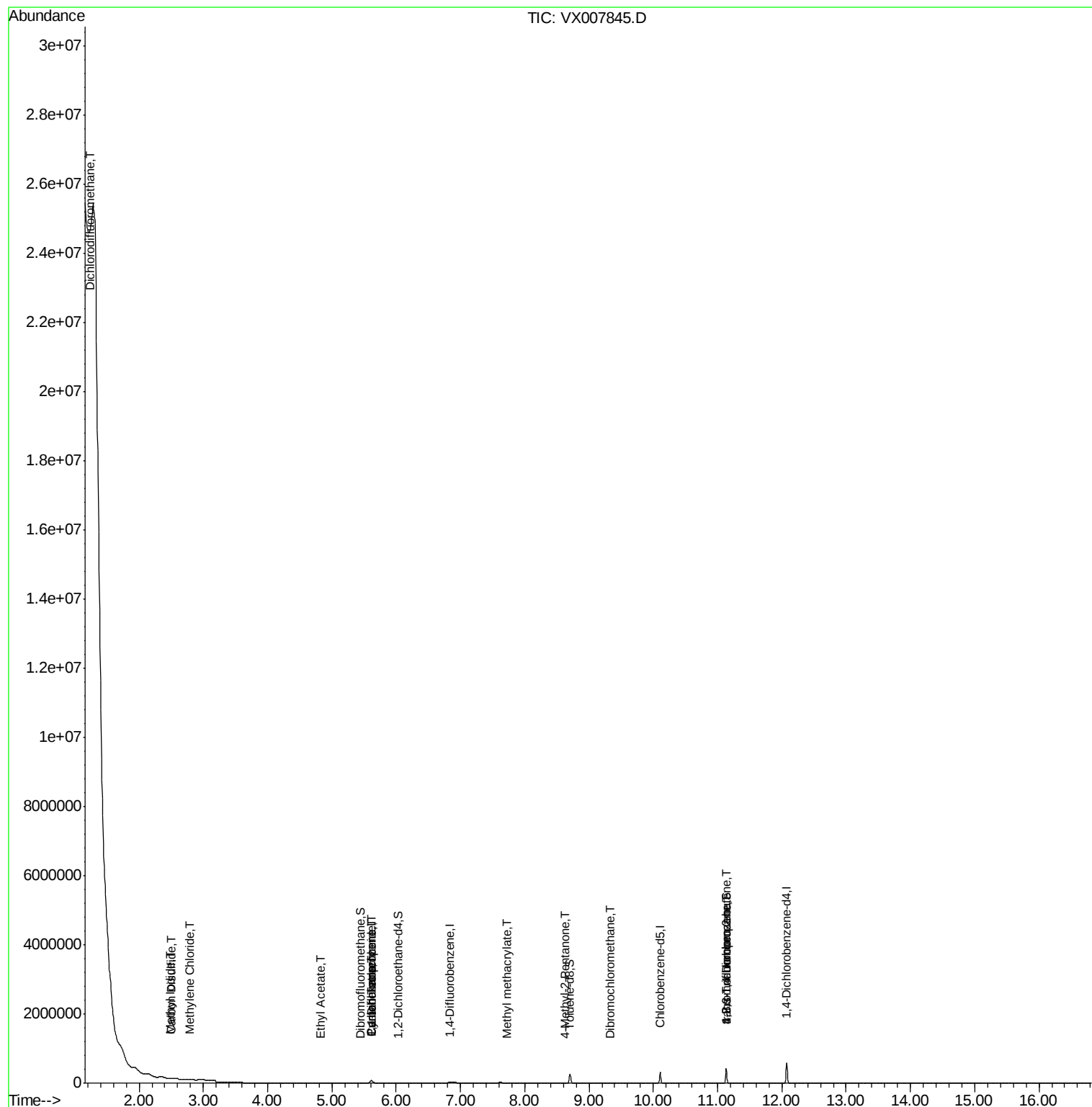
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.24  | 85   | 1428     | 1.973     | ug/l # | 43     |
| 5) Bromomethane                | 1.63  | 94   | 253      | Below Cal | #      | 3      |
| 10) Methyl Iodide              | 2.48  | 142  | 344      | 0.362     | ug/l # | 59     |
| 17) Carbon Disulfide           | 2.50  | 76   | 683      | 0.357     | ug/l # | 75     |
| 20) Methylene Chloride         | 2.79  | 84   | 2962     | 3.706     | ug/l   | 87     |
| 31) Cyclohexane                | 5.62  | 56   | 1336     | 0.988     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.61  | 75   | 5009     | 13.961    | ug/l # | 48     |
| 37) Ethyl Acetate              | 4.83  | 43   | 146      | 0.366     | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 5.62  | 117  | 6883     | 19.097    | ug/l # | 18     |
| 48) Methyl methacrylate        | 7.73  | 41   | 144      | 0.448     | ug/l # | 12     |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 130      | 0.317     | ug/l # | 36     |
| 60) Dibromochloromethane       | 9.32  | 129  | 65       | 0.232     | ug/l # | 12     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 48381    | 17.048    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 48381    | 45.943    | ug/l # | 9      |

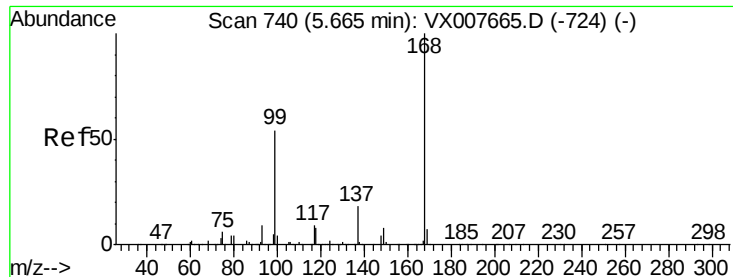
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX030519\  
Data File : VX007845.D  
Acq On : 05 Mar 2019 18:48  
Operator : JC/SP  
Sample : K1659-07RE  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
M1-T5-OZ(POST-HYPO)RE

Quant Time: Mar 06 00:13:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 26 01:53:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 732

Delta R.T. -0.05 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

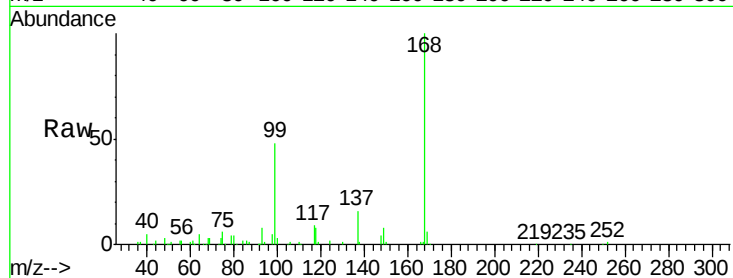
M1-T5-OZ(POST-HYPO)RE

Tot Ion:168 Resp: 78586

Ion Ratio Lower Upper

168 100

99 47.6 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

25000

20000

15000

10000

5000

0

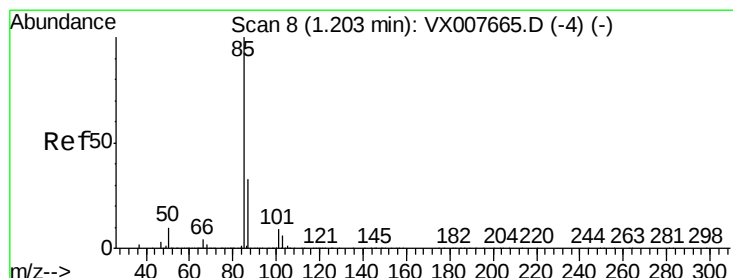
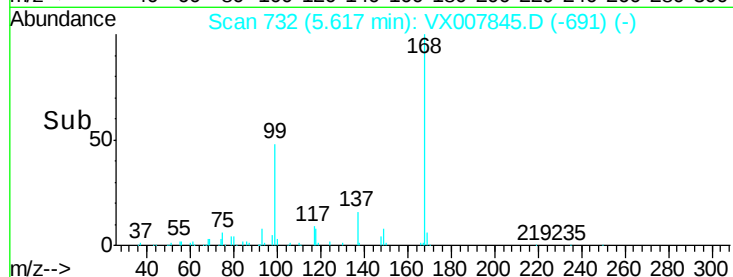
Time-->

5.50

5.60

5.70

5.80



#2

Dichlorodifluoromethane

Concen: 1.973 ug/l

RT: 1.24 min Scan# 14

Delta R.T. 0.04 min

Lab File: VX007845.D

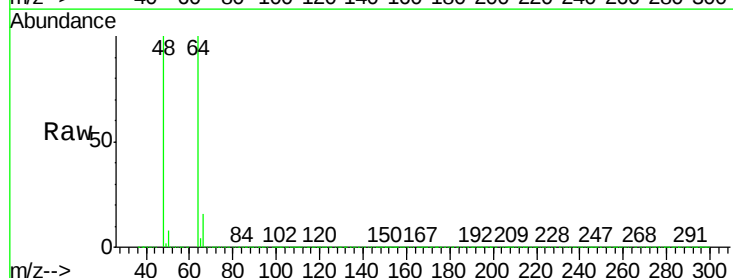
Acq: 05 Mar 2019 18:48

Tgt Ion: 85 Resp: 1428

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.24

800

600

400

200

0

Time-->

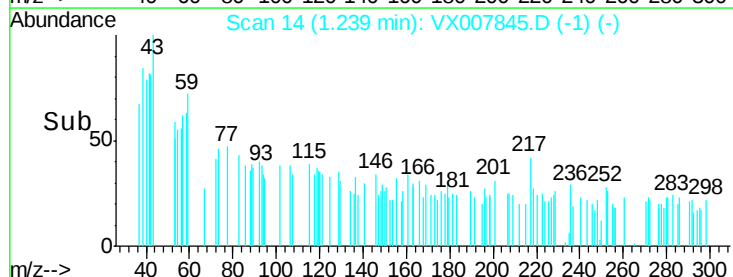
1.20

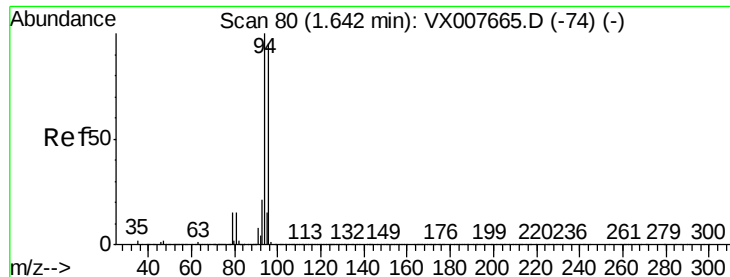
1.22

1.24

1.26

1.28





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

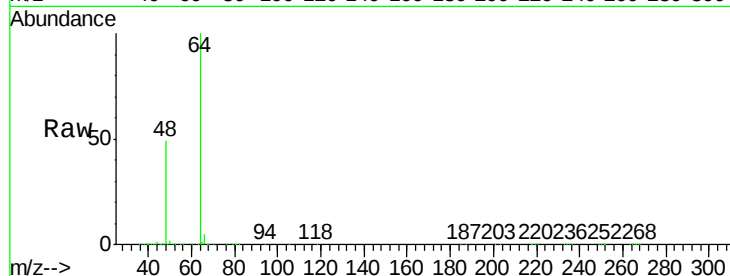
M1-T5-OZ(POST-HYPO)RE

Tot Ion: 94 Resp: 253

Ion Ratio Lower Upper

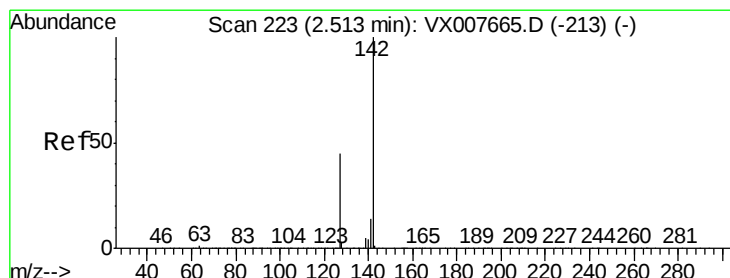
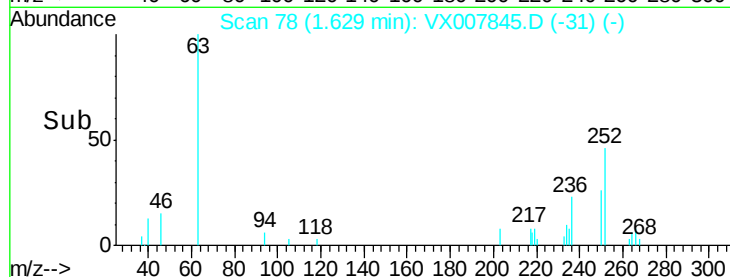
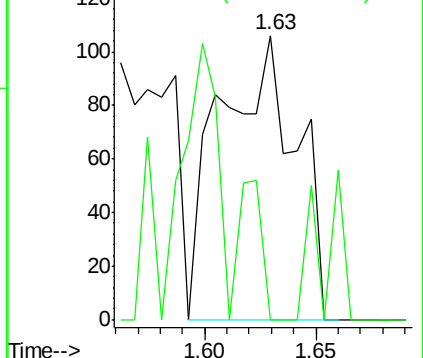
94 100

96 0.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.362 ug/l

RT: 2.48 min Scan# 218

Delta R.T. -0.03 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

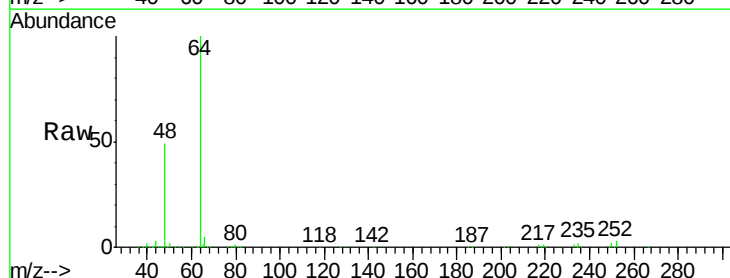
Tgt Ion:142 Resp: 344

Ion Ratio Lower Upper

142 100

127 14.5 33.7 50.5#

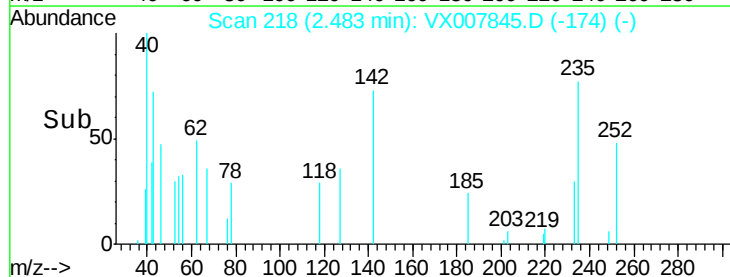
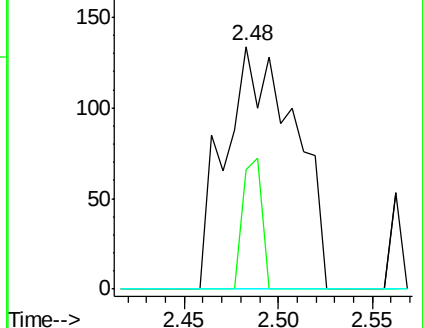
141 0.0 11.3 16.9#

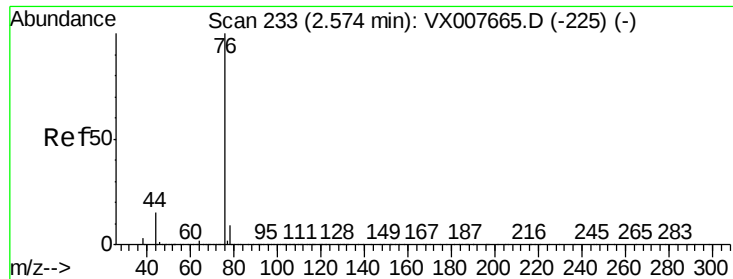


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#17

Carbon Disulfide

Concen: 0.357 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.07 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

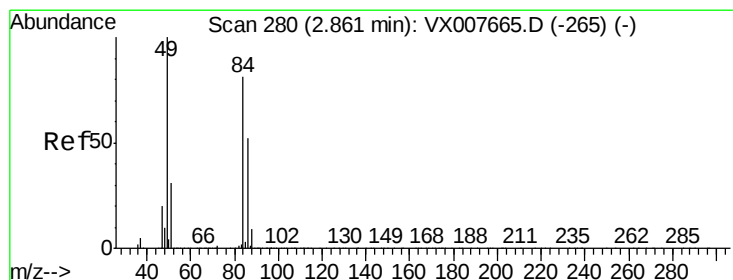
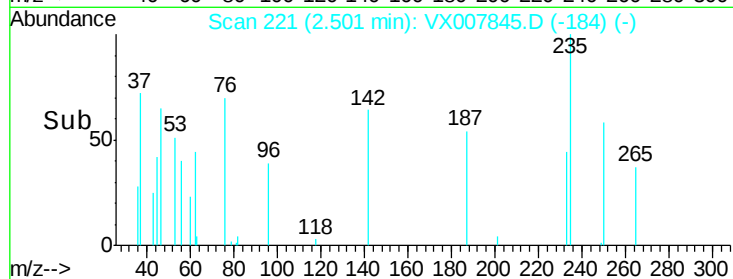
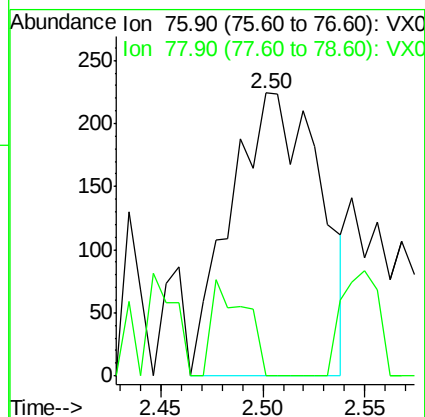
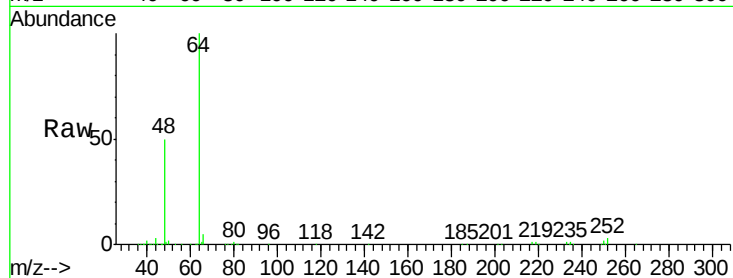
M1-T5-OZ(POST-HYPO)RE

Tot Ion: 76 Resp: 683

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#20

Methylene Chloride

Concen: 3.706 ug/l

RT: 2.79 min Scan# 269

Delta R.T. -0.07 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Tgt Ion: 84 Resp: 2962

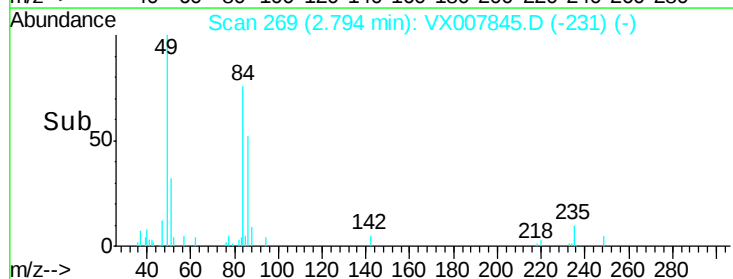
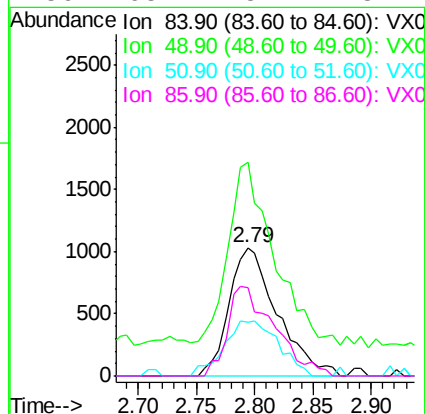
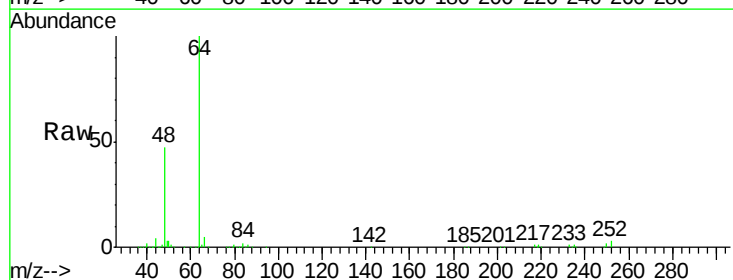
Ion Ratio Lower Upper

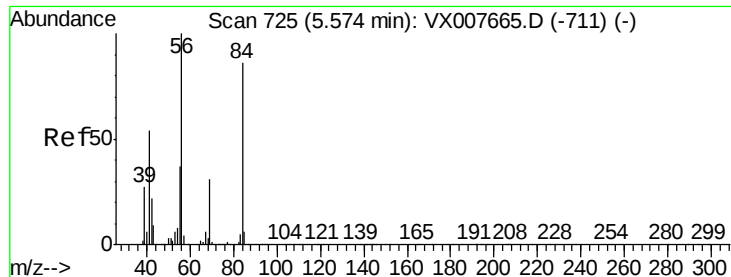
84 100

49 141.9 94.8 142.2

51 42.2 29.8 44.8

86 68.4 54.1 81.1





#31

Cvclohexane

Concen: 0.988 ug/l

RT: 5.62 min Scan# 732

Delta R.T. 0.04 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

M1-T5-OZ(POST-HYPO)RE

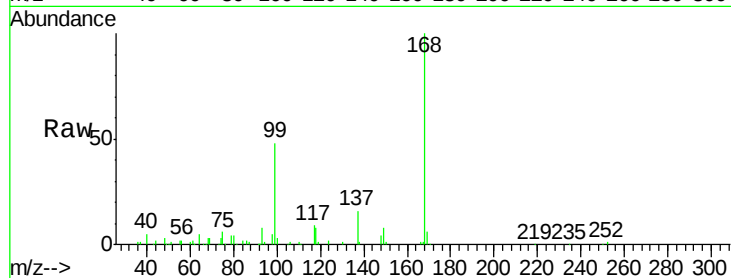
Tot Ion: 56 Resp: 1336

Ion Ratio Lower Upper

56 100

69 175.5 23.0 34.6#

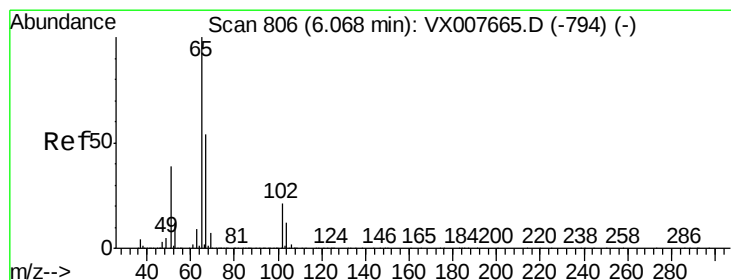
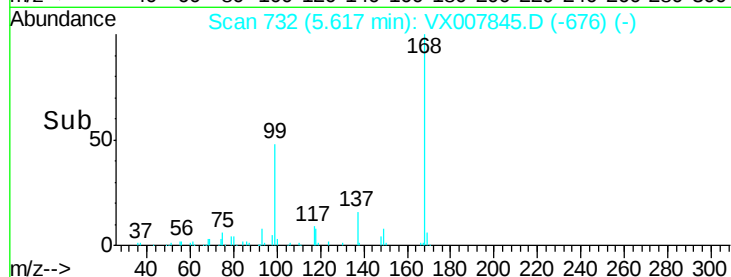
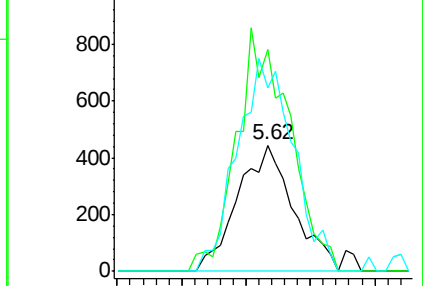
84 145.2 69.8 104.6#



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



#33

1,2-Dichloroethane-d4

Concen: 3.341 ug/l

RT: 6.03 min Scan# 800

Delta R.T. -0.04 min

Lab File: VX007845.D

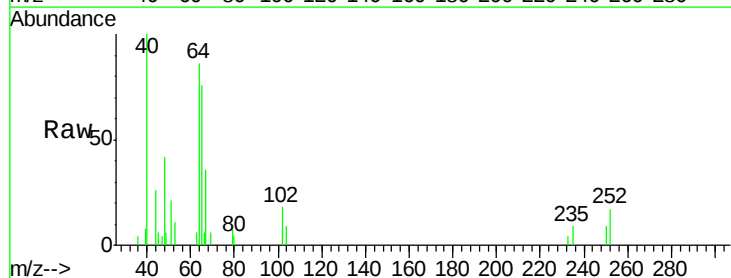
Acq: 05 Mar 2019 18:48

Tgt Ion: 65 Resp: 3252

Ion Ratio Lower Upper

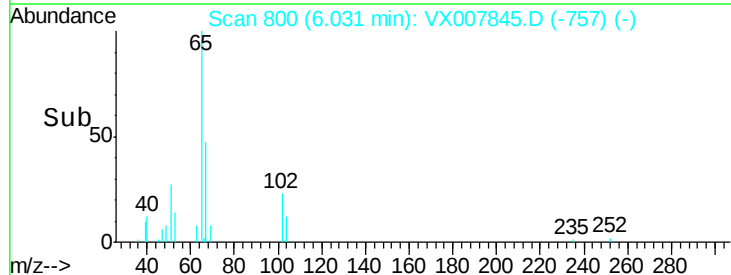
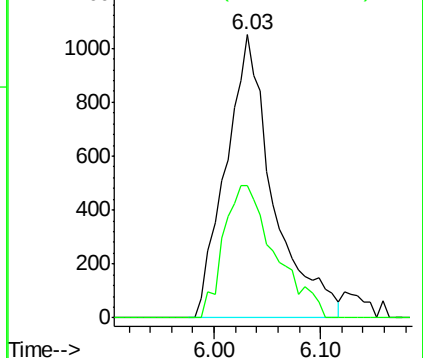
65 100

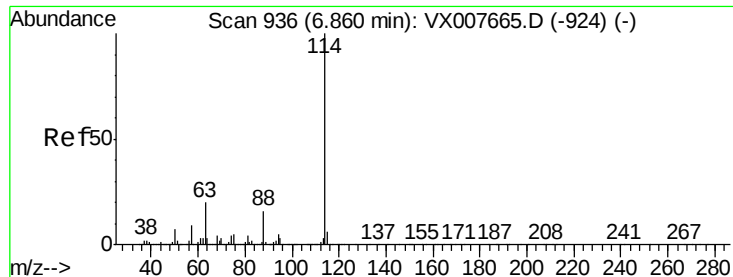
67 51.2 0.0 108.8



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: 6.83 min Scan# 931

Delta R.T. -0.03 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

M1-T5-OZ(POST-HYPO)RE

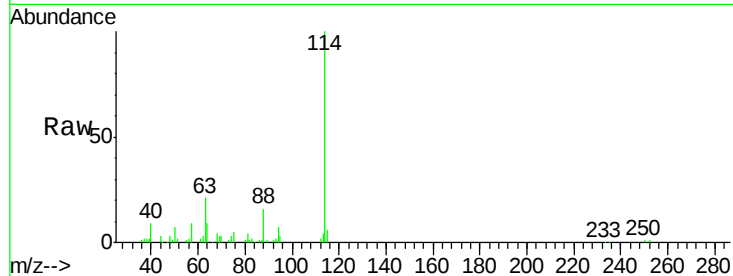
Tot Ion:114 Resp: 39909

Ion Ratio Lower Upper

114 100

63 21.2 0.0 35.6

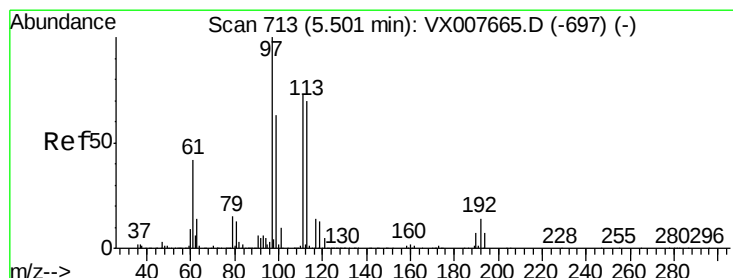
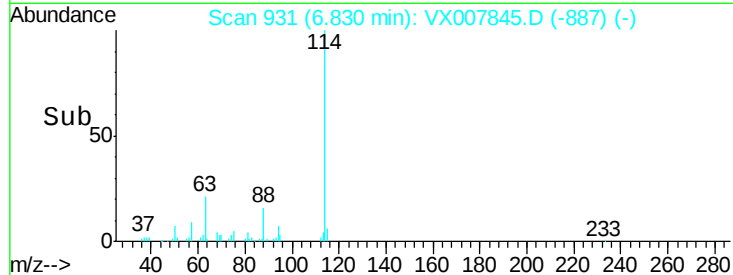
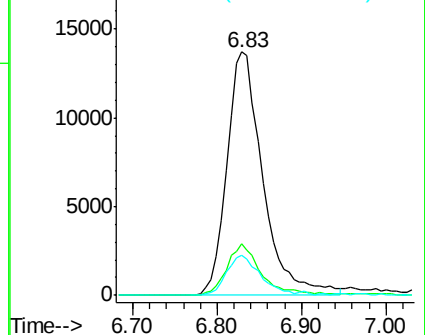
88 16.2 0.0 29.6



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: 8.359 ug/l

RT: 5.44 min Scan# 703

Delta R.T. -0.06 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

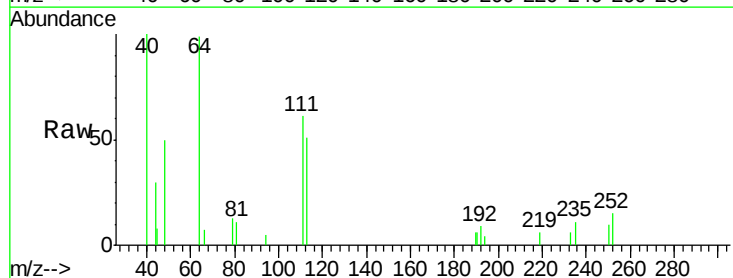
Tgt Ion:113 Resp: 2230

Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.8

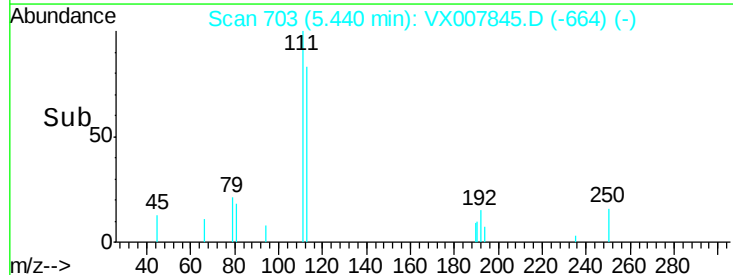
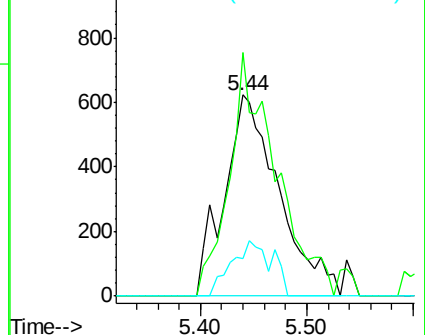
192 20.4 18.5 27.7

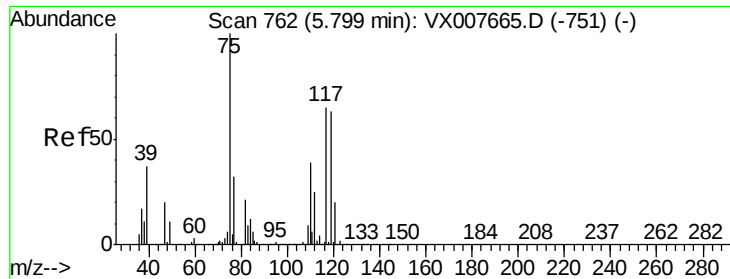


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 13.961 ug/l

RT: 5.61 min Scan# 731

Delta R.T. -0.19 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

M1-T5-OZ(POST-HYPO)RE

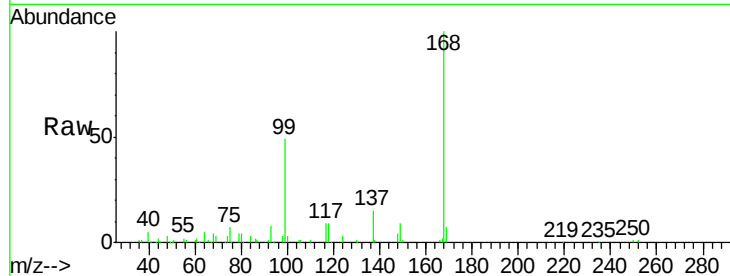
Tot Ion: 75 Resp: 5009

Ion Ratio Lower Upper

75 100

110 10.4 20.0 59.9#

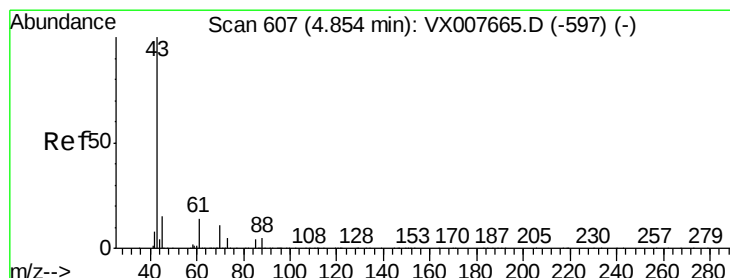
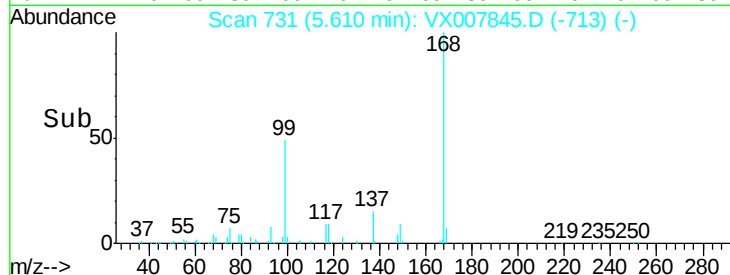
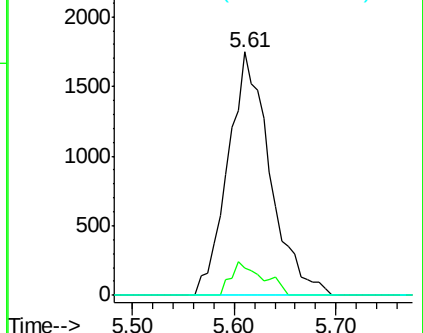
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.366 ug/l

RT: 4.83 min Scan# 603

Delta R.T. -0.02 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

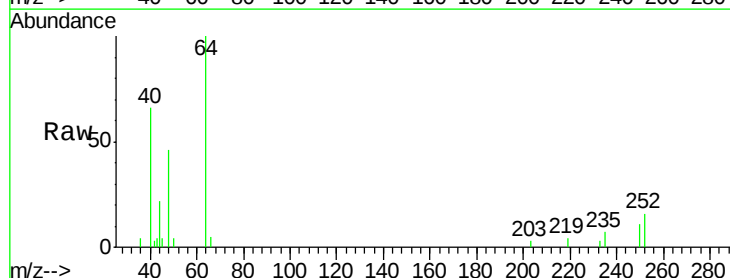
Tgt Ion: 43 Resp: 146

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

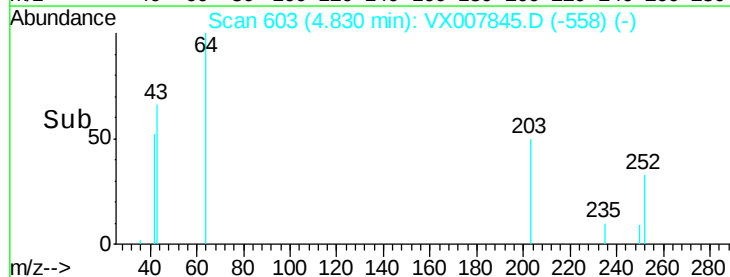
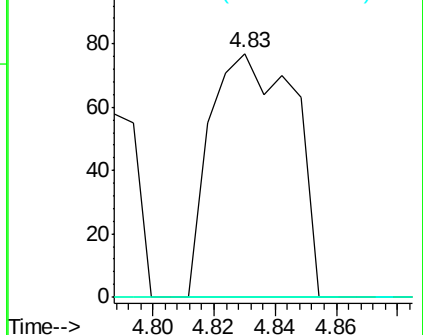
70 0.0 8.6 13.0#

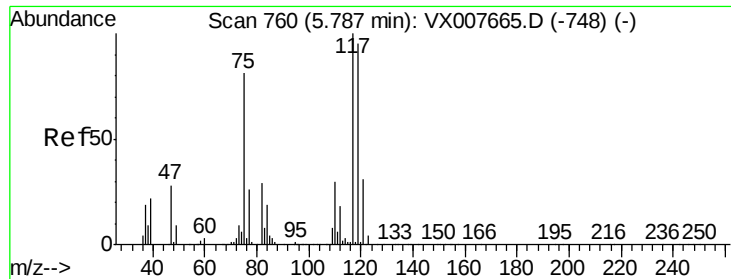


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

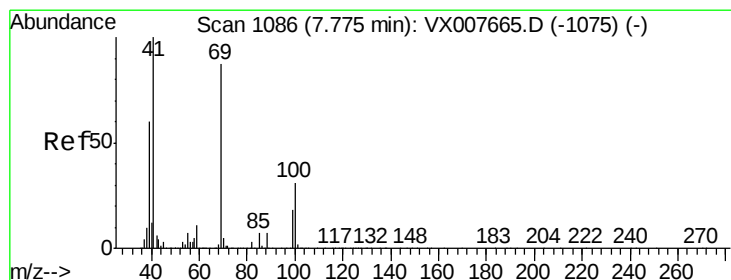
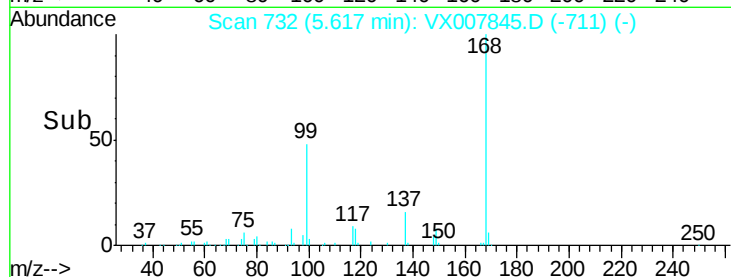
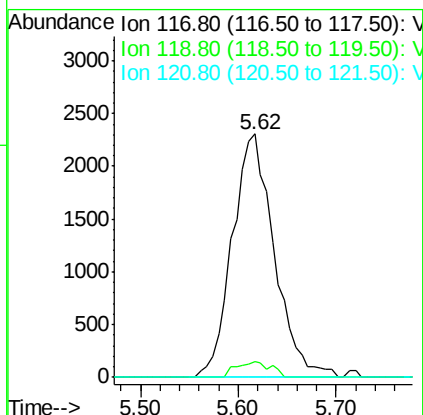
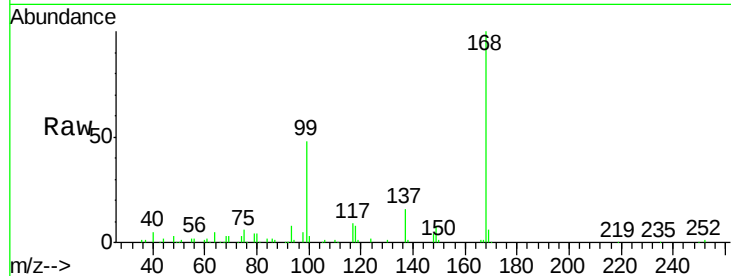




#38  
Carbon Tetrachloride  
Concen: 19.097 ug/l  
RT: 5.62 min Scan# 732  
Delta R.T. -0.17 min  
Lab File: VX007845.D  
Acq: 05 Mar 2019 18:48

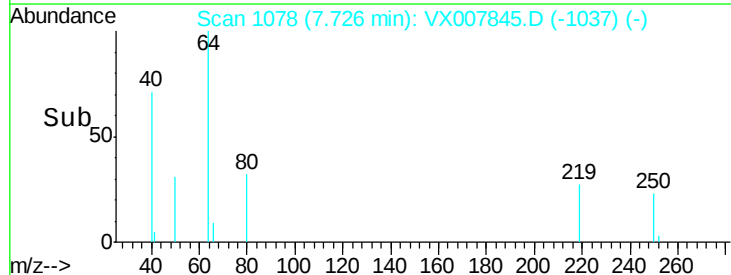
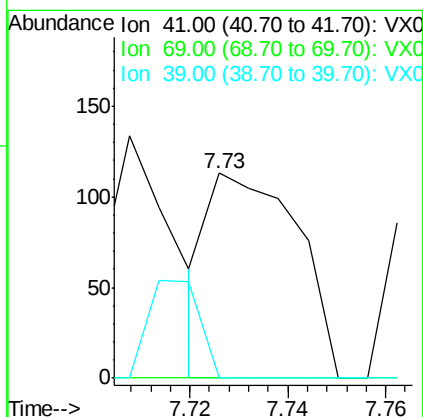
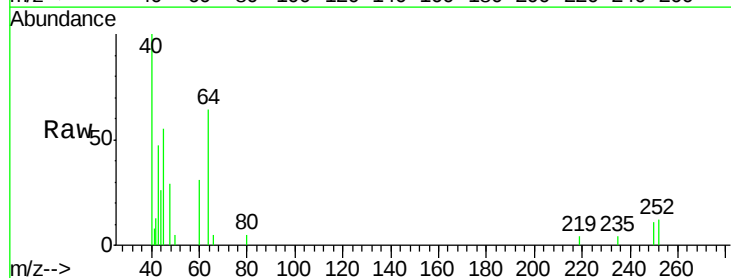
Instrument :  
MSVOA\_X  
ClientSampleId :  
M1-T5-OZ(POST-HYPO)RE

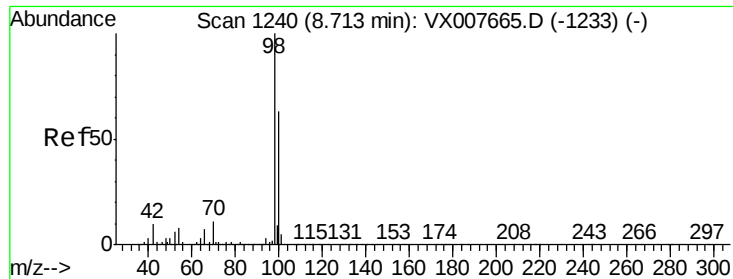
Tot Ion:117 Resp: 6883  
Ion Ratio Lower Upper  
117 100  
119 6.3 75.3 112.9#  
121 0.0 25.0 37.4#



#48  
Methyl methacrylate  
Concen: 0.448 ug/l  
RT: 7.73 min Scan# 1078  
Delta R.T. -0.05 min  
Lab File: VX007845.D  
Acq: 05 Mar 2019 18:48

Tgt Ion: 41 Resp: 144  
Ion Ratio Lower Upper  
41 100  
69 0.0 70.2 105.4#  
39 0.0 47.4 71.0#





#50

Toluene-d8

Concen: 161.494 ug/l

RT: 8.70 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

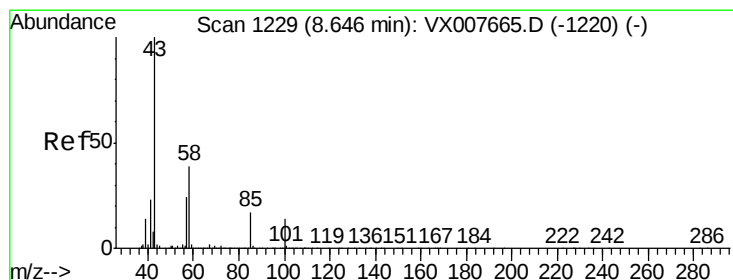
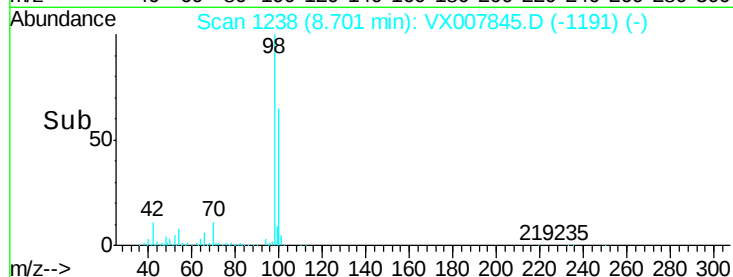
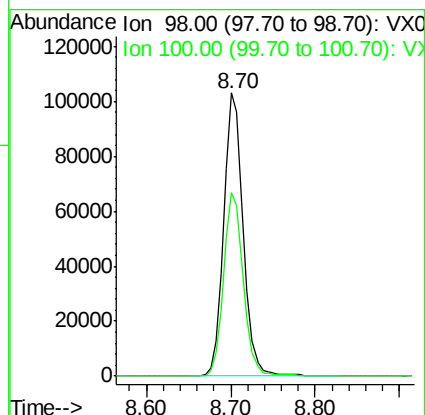
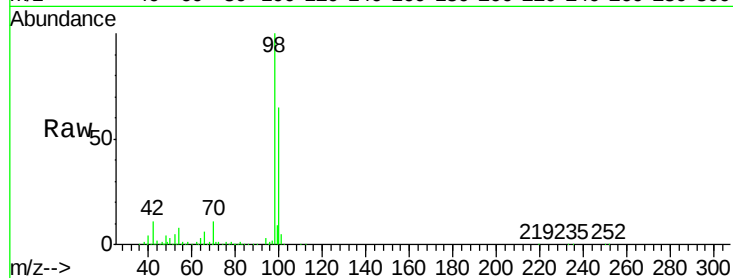
M1-T5-OZ(POST-HYPO)RE

Tot Ion: 98 Resp: 164939

Ion Ratio Lower Upper

98 100

100 65.5 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 0.317 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX007845.D

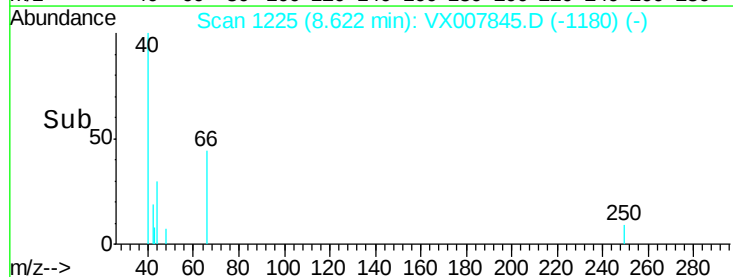
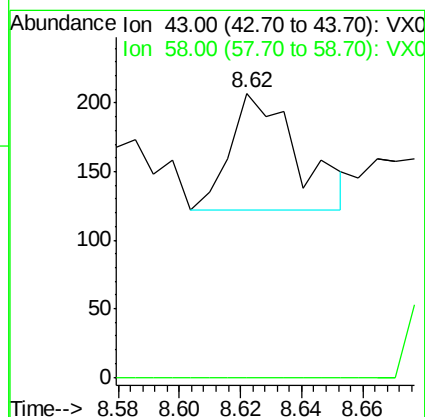
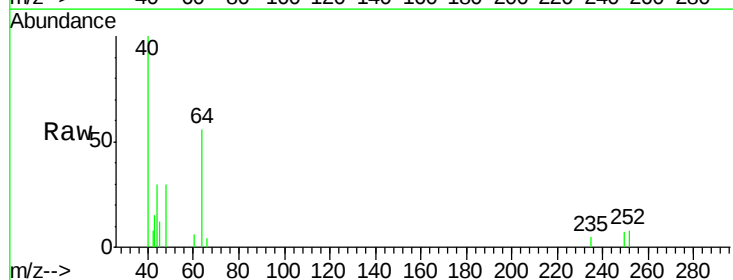
Acq: 05 Mar 2019 18:48

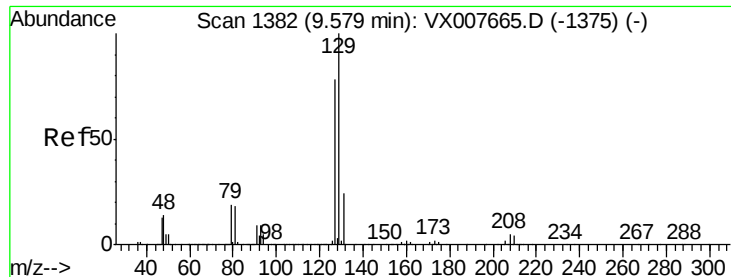
Tgt Ion: 43 Resp: 130

Ion Ratio Lower Upper

43 100

58 0.0 31.2 46.8#





#60

Dibromochloromethane

Concen: 0.232 ug/l

RT: 9.32 min Scan# 1339

Delta R.T. -0.26 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

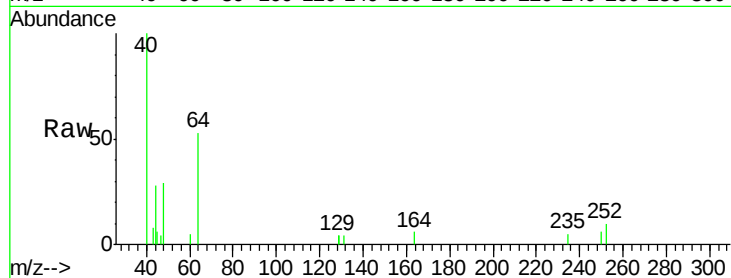
M1-T5-OZ(POST-HYPO)RE

Tot Ion:129 Resp: 65

Ion Ratio Lower Upper

129 100

127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

100

80

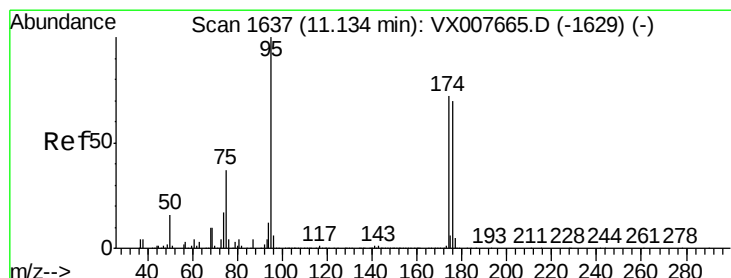
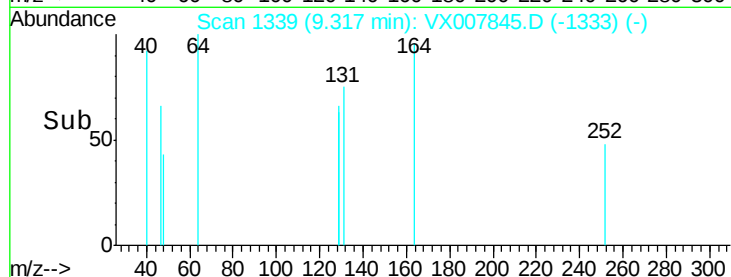
60

40

20

0

Time-->



#62

4-Bromofluorobenzene

Concen: 277.700 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

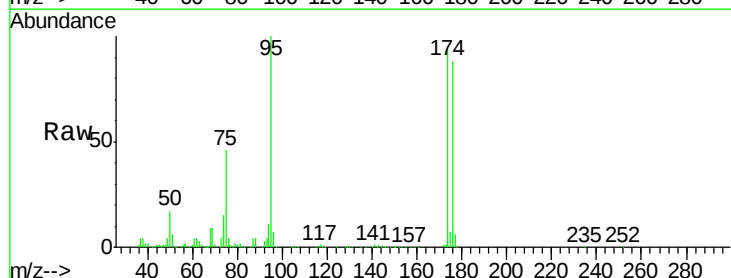
Tgt Ion: 95 Resp: 104100

Ion Ratio Lower Upper

95 100

174 93.8 0.0 189.2

176 89.7 0.0 186.2



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

11.13

100000

80000

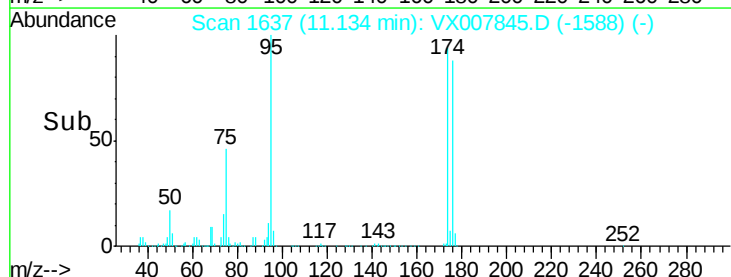
60000

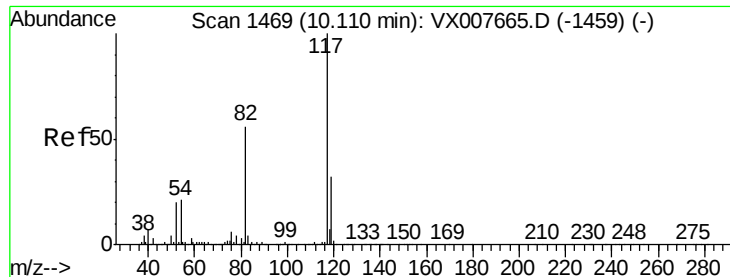
40000

20000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

M1-T5-OZ(POST-HYPO)RE

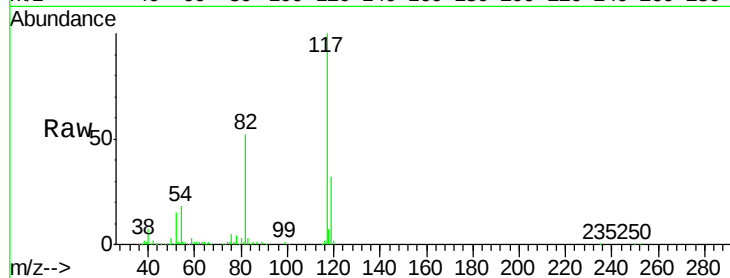
Tot Ion:117 Resp: 154548

Ion Ratio Lower Upper

117 100

82 51.8 42.1 63.1

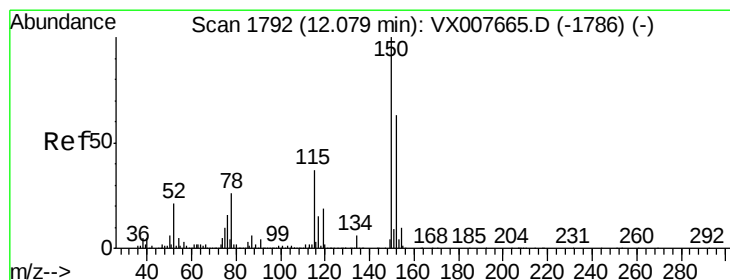
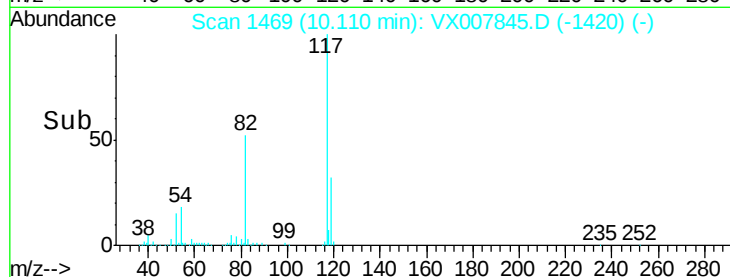
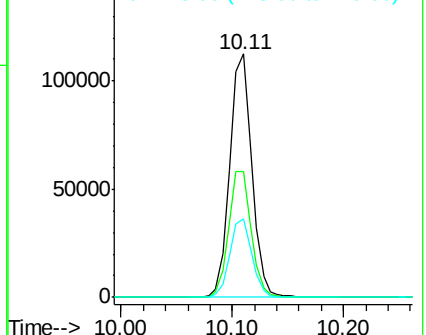
119 32.4 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007845.D

Acq: 05 Mar 2019 18:48

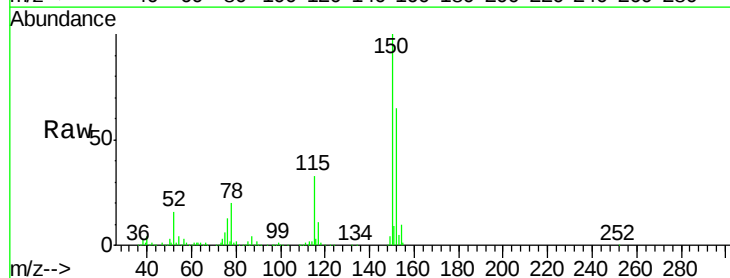
Tgt Ion:152 Resp: 133141

Ion Ratio Lower Upper

152 100

115 54.2 38.0 114.0

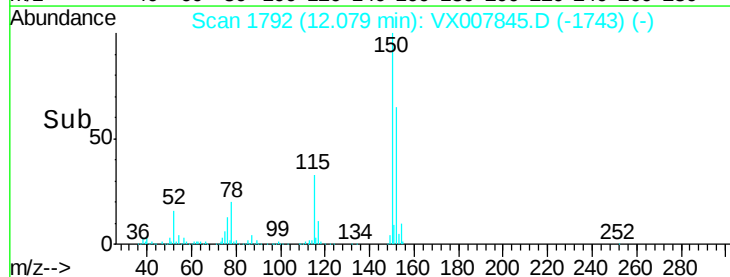
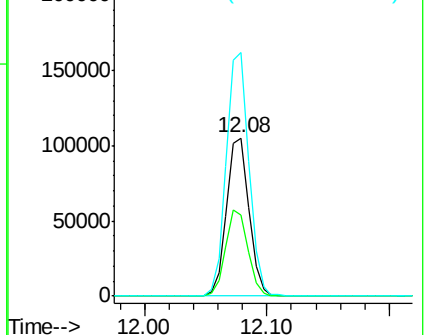
150 155.6 0.0 346.4

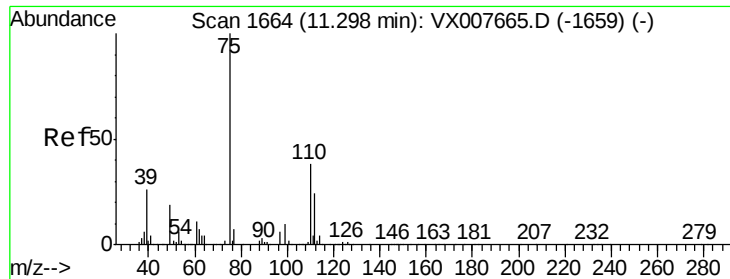


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

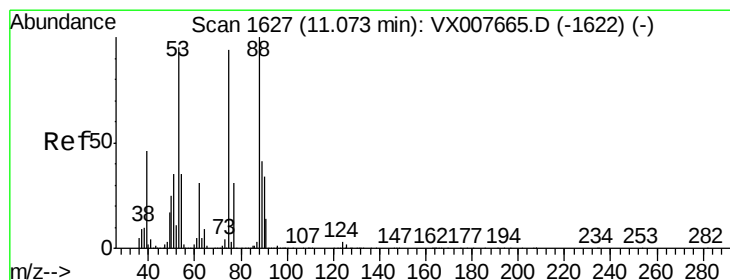
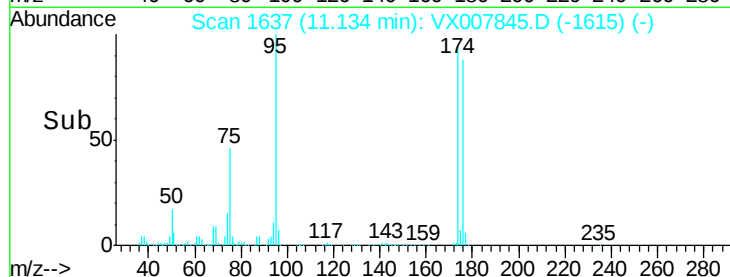
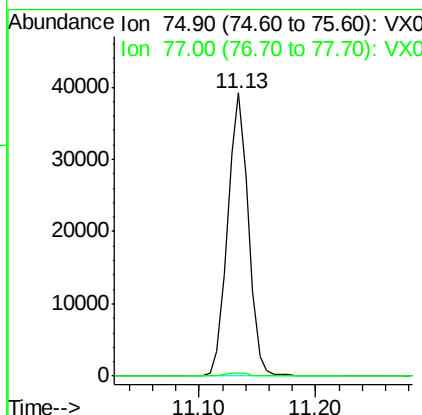
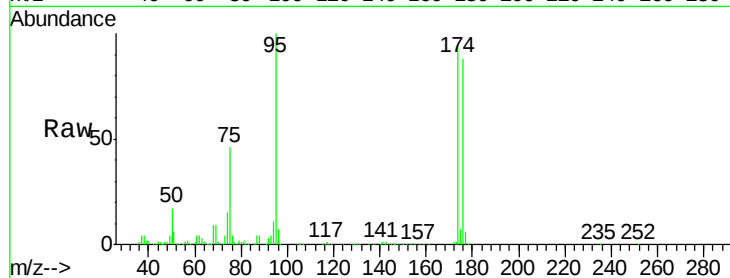




#76  
 1,2,3-Trichloropropane  
 Concen: 17.048 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX007845.D  
 Acq: 05 Mar 2019 18:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 M1-T5-OZ(POST-HYPO)RE

Tot Ion: 75 Resp: 48381  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 23.0 69.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 45.943 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX007845.D  
 Acq: 05 Mar 2019 18:48

Tgt Ion: 75 Resp: 48381  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 81.0 121.6#  
 89 0.0 41.4 62.0#

