

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\  
 Data File : VX013647.D  
 Acq On : 27 Nov 2019 13:03  
 Operator : JC/SP  
 Sample : K5983-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 28 00:27:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 655470   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1038239  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 921007   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 392675   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 378775   | 49.78 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.56% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 313343   | 48.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.64% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1237012  | 49.47 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 398897   | 44.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.46% |          |

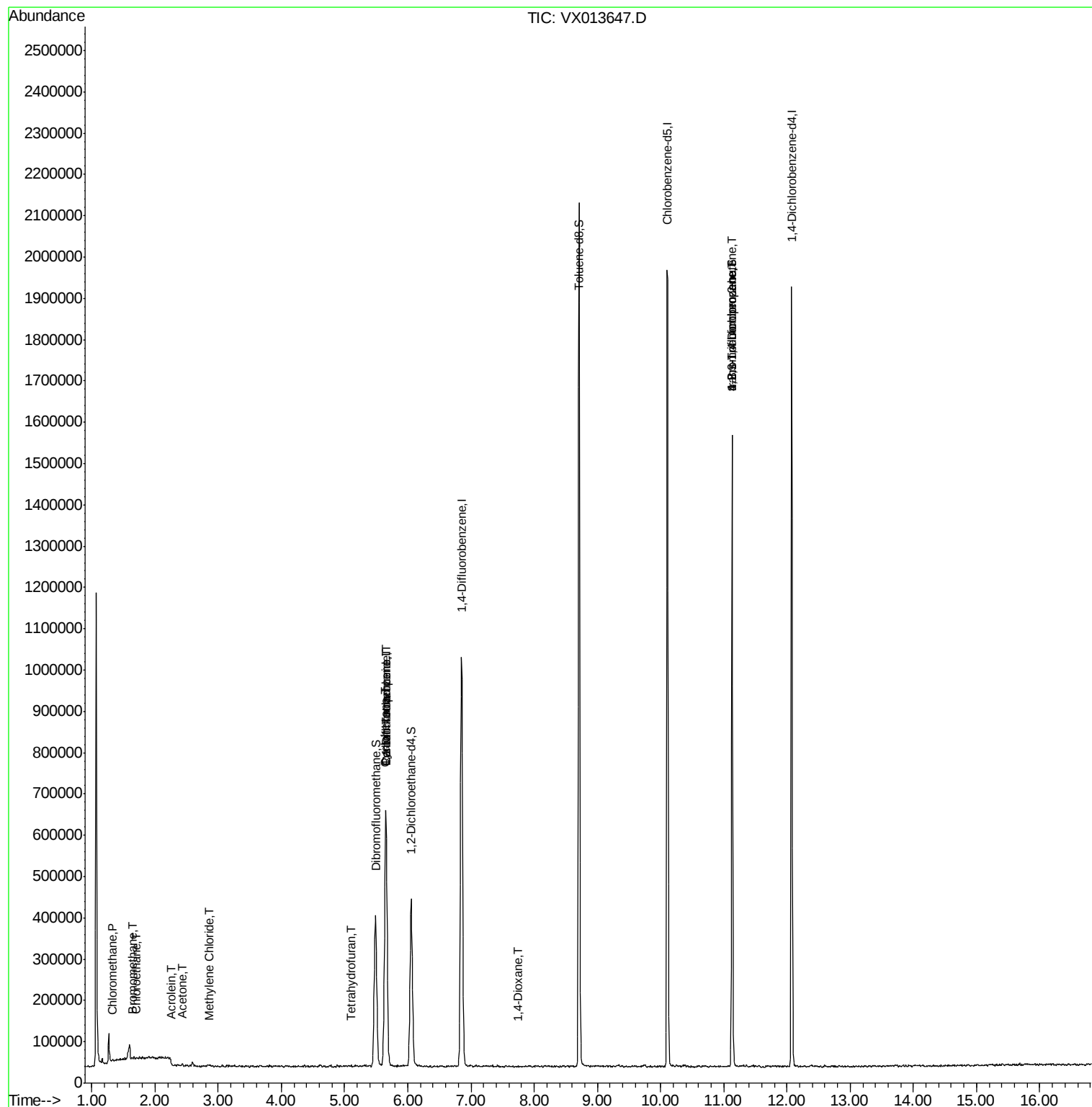
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 2144     | 0.262  | ug/l # | 88     |
| 5) Bromomethane                | 1.65  | 94   | 1412     | 0.228  | ug/l # | 63     |
| 6) Chloroethane                | 1.70  | 64   | 1887     | 0.360  | ug/l # | 41     |
| 13) Acrolein                   | 2.27  | 56   | 263      | 6.208  | ug/l # | 1      |
| 16) Acetone                    | 2.43  | 43   | 5448     | 1.450  | ug/l   | 89     |
| 20) Methylene Chloride         | 2.85  | 84   | 2617     | 0.363  | ug/l # | 80     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 979      | 0.284  | ug/l # | 39     |
| 31) Cyclohexane                | 5.64  | 56   | 10809    | 0.962  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 43455    | 4.611  | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 55858    | 6.428  | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 66       | 0.349  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 193976   | 21.963 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 193976   | 60.087 | ug/l # | 11     |

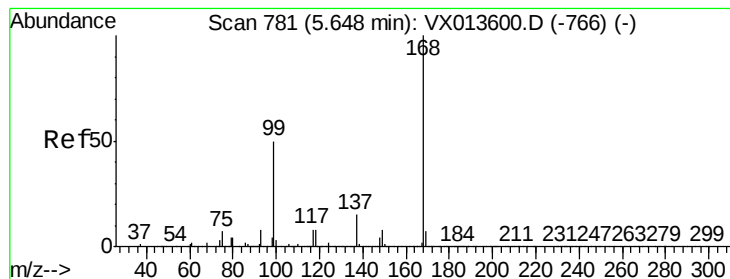
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112719\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 26 15:53:00 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: VX013647.D

Acq: 27 Nov 2019 13:03

Instrument :

MSVOA\_X

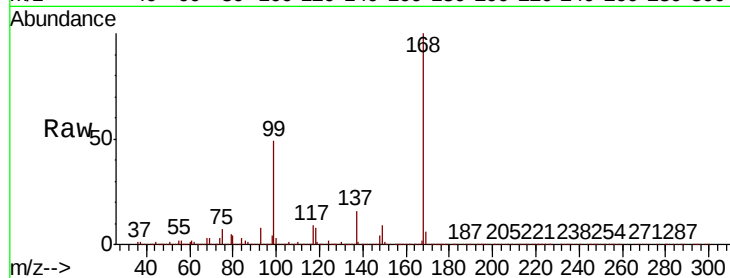
ClientSampleId :

Tot Ion:168 Resp: 655470

Ion Ratio Lower Upper

168 100

99 49.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

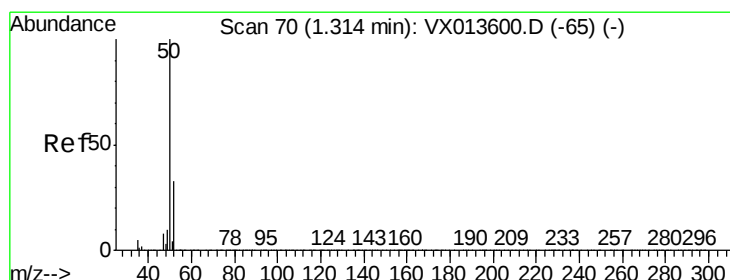
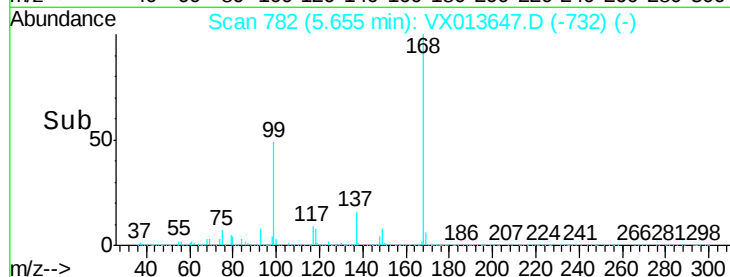
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013647.D

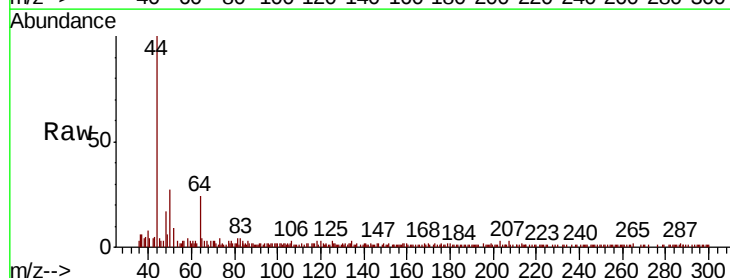
Acq: 27 Nov 2019 13:03

Tgt Ion: 50 Resp: 2144

Ion Ratio Lower Upper

50 100

52 25.5 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2500

2000

1500

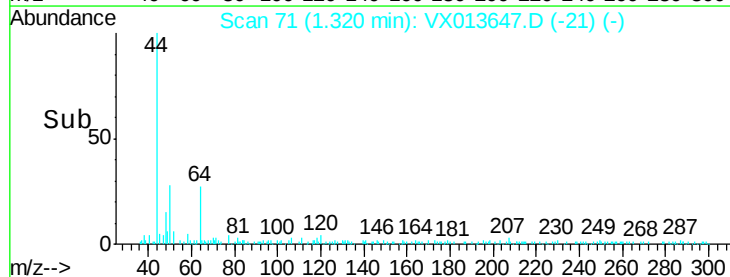
1000

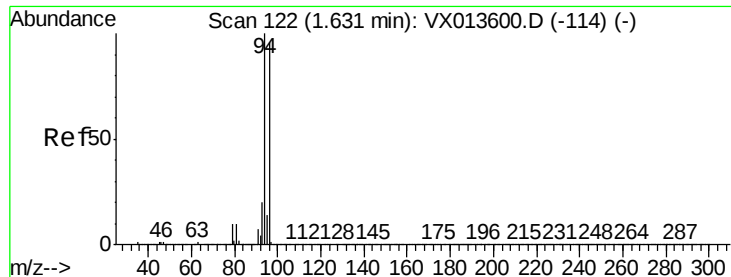
500

0

Time-->

1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.228 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

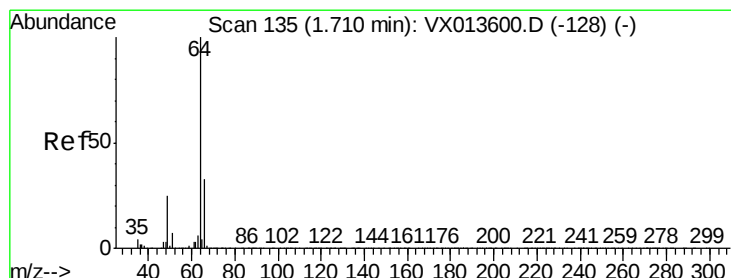
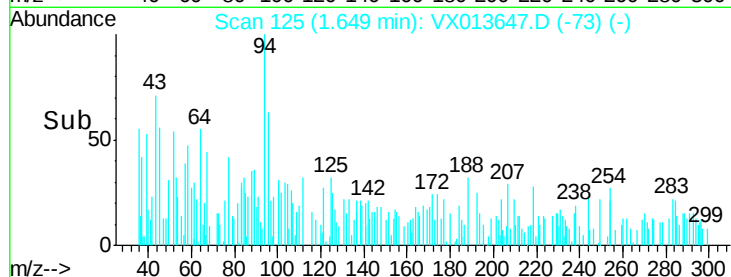
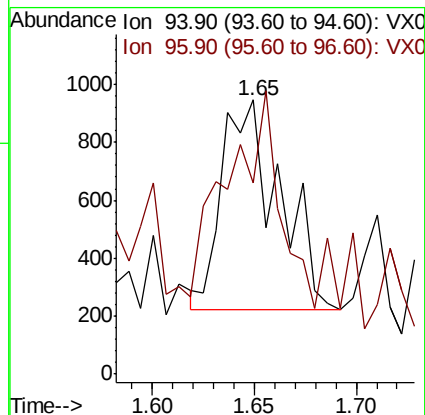
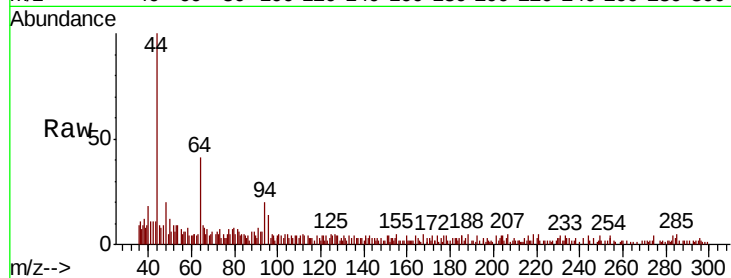
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 94 Resp: 1412

Ion Ratio Lower Upper

94 100

96 60.0 77.0 115.4#



#6

Chloroethane

Concen: 0.360 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013647.D

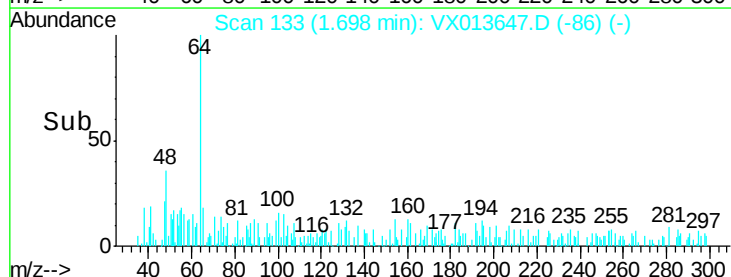
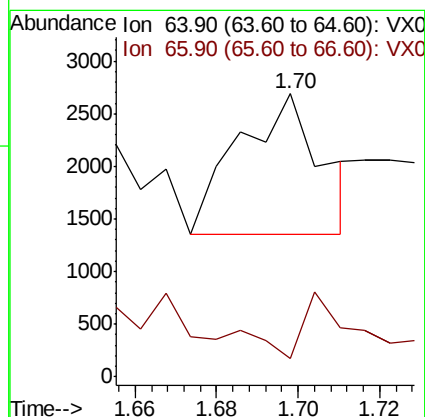
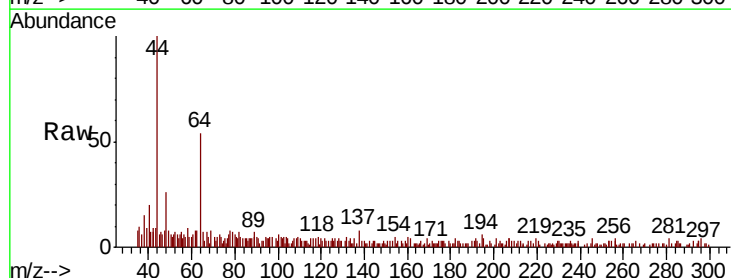
Acq: 27 Nov 2019 13:03

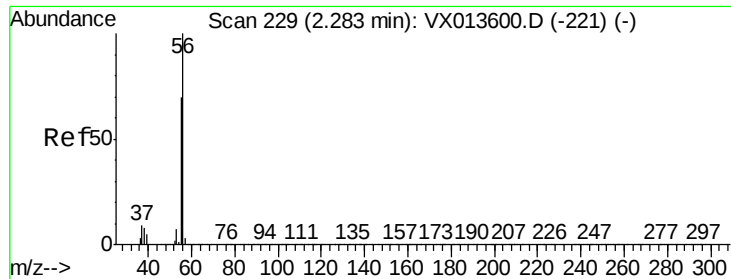
Tgt Ion: 64 Resp: 1887

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#

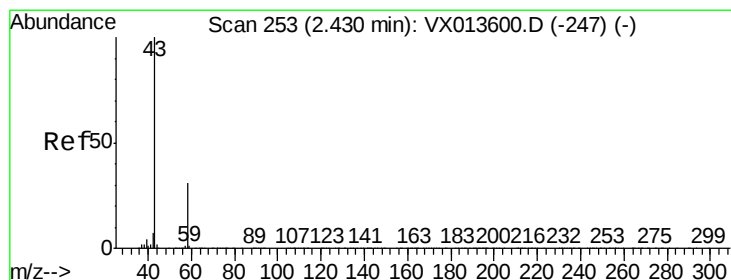
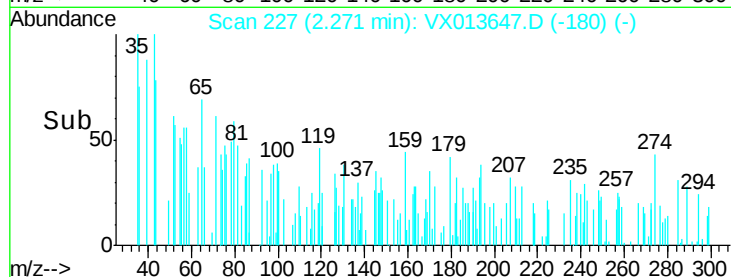
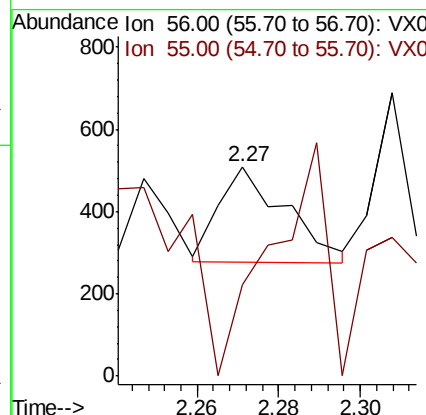
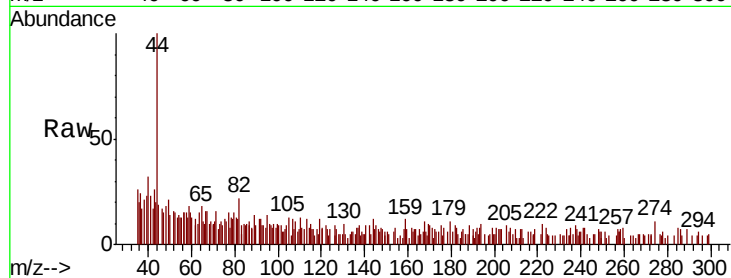




#13  
Acrolein  
Concen: 6.208 ug/l  
RT: 2.27 min Scan# 227  
Delta R.T. -0.01 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

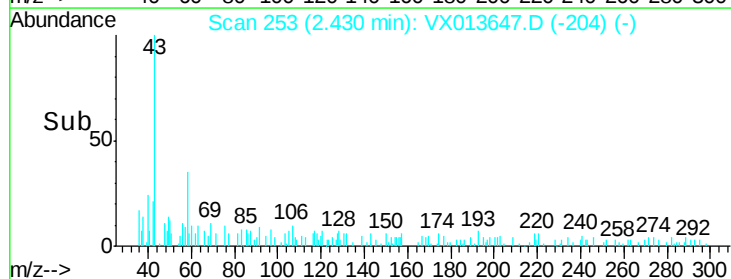
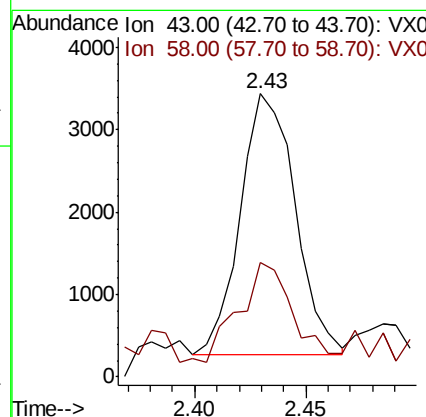
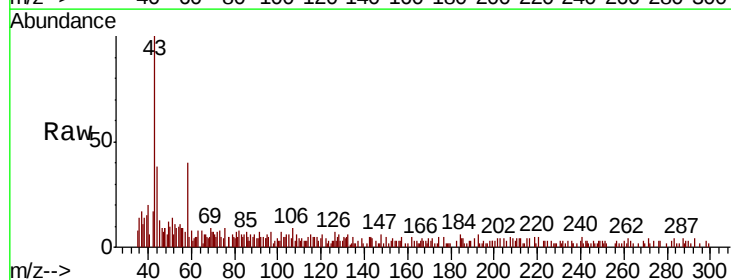
Instrument :  
MSVOA\_X  
ClientSampled :

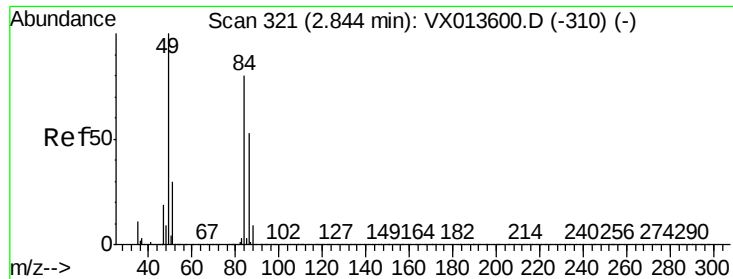
Tot Ion: 56 Resp: 263  
Ion Ratio Lower Upper  
56 100  
55 199.6 56.2 84.4#



#16  
Acetone  
Concen: 1.450 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. 0.00 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

Tgt Ion: 43 Resp: 5448  
Ion Ratio Lower Upper  
43 100  
58 36.8 24.6 36.8

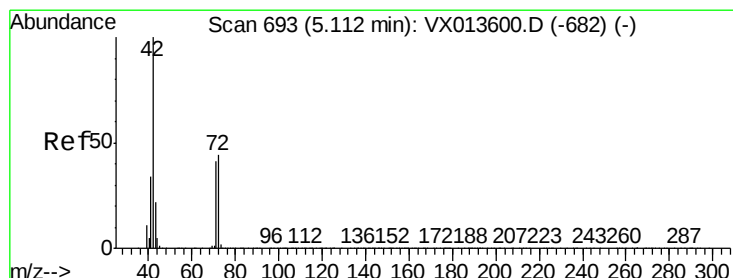
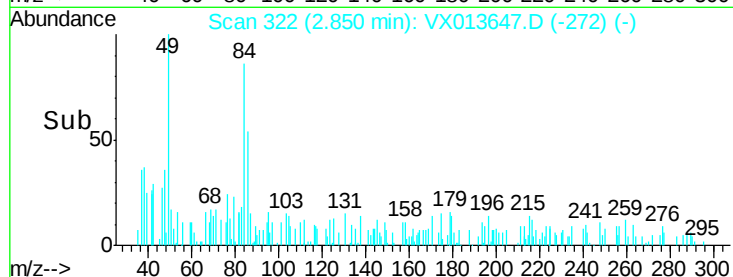
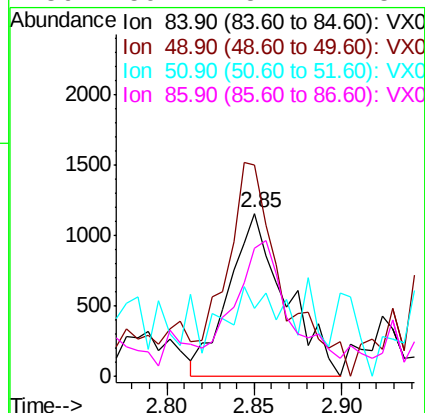
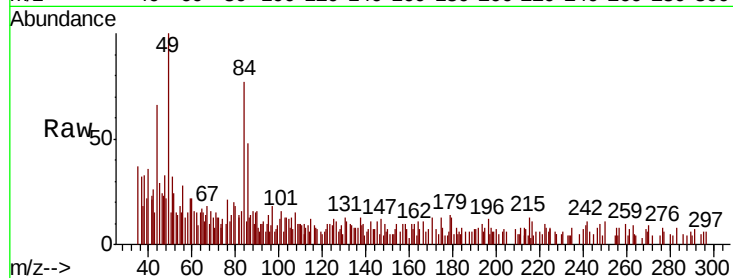




#20  
Methvlene Chloride  
Concen: 0.363 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.01 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

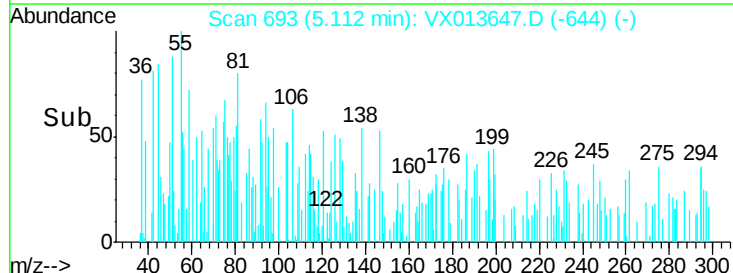
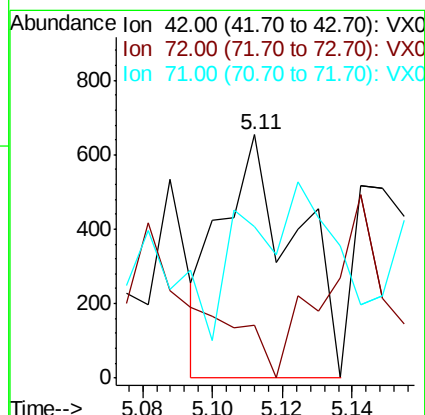
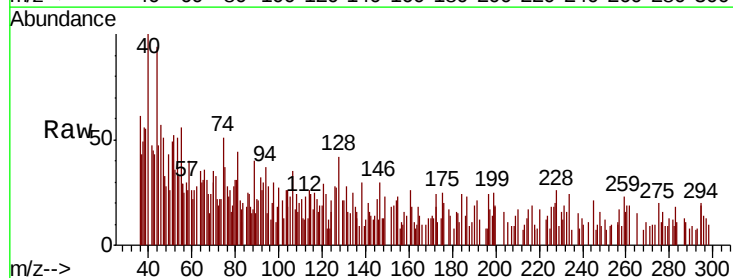
Instrument :  
MSVOA\_X  
ClientSampled :

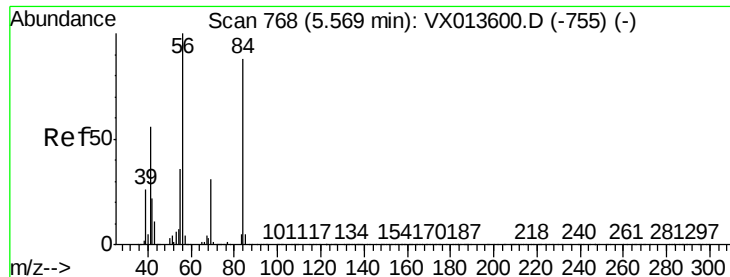
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 2617  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.7 | 99.7  | 149.5 |
| 51       | 0.0   | 29.9  | 44.9# |
| 86       | 59.4  | 52.2  | 78.4  |



#29  
Tetrahydrofuran  
Concen: 0.284 ug/l  
RT: 5.11 min Scan# 693  
Delta R.T. 0.00 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 979   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 36.3  | 54.5# |
| 71       | 74.2  | 33.2  | 49.8# |

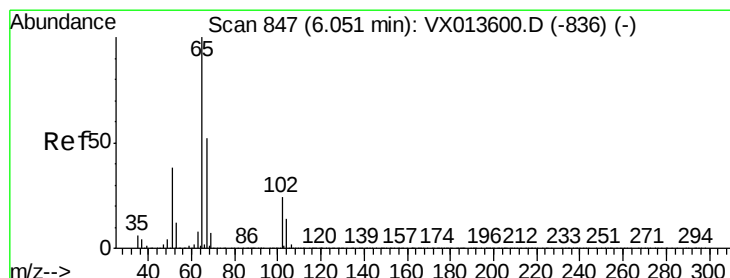
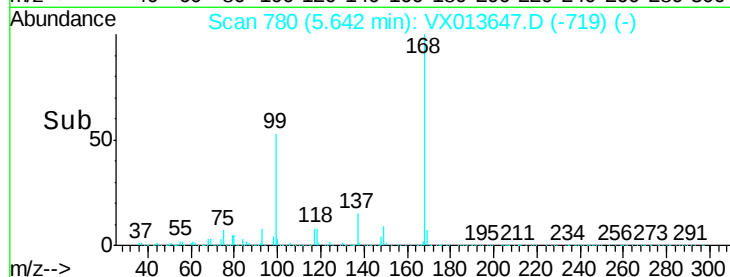
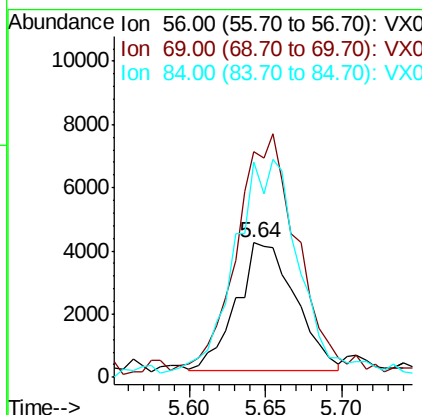
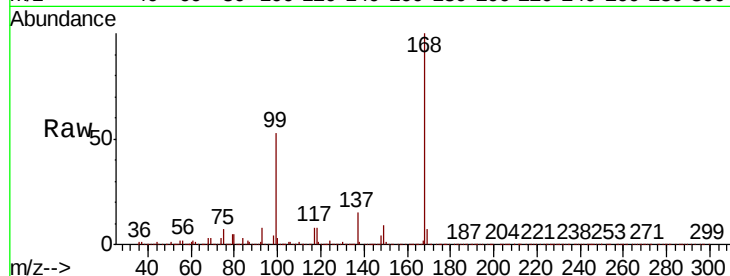




#31  
Cyclohexane  
Concen: 0.962 ug/l  
RT: 5.64 min Scan# 780  
Delta R.T. 0.07 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

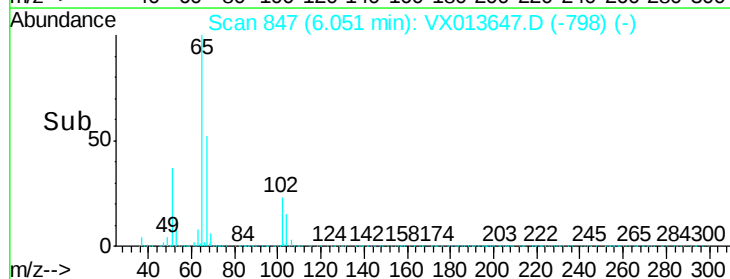
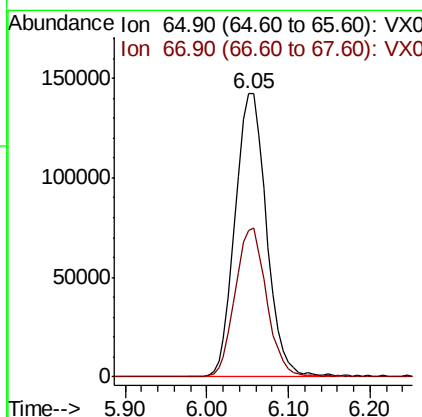
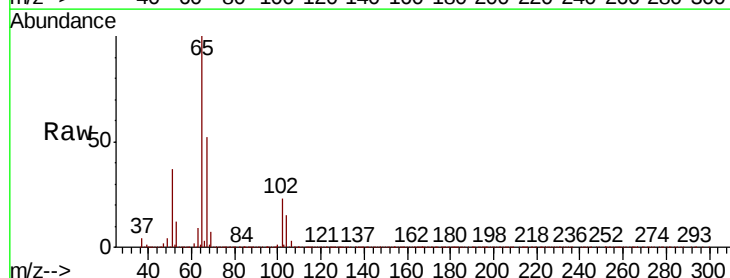
Instrument :  
MSVOA\_X  
ClientSampled :

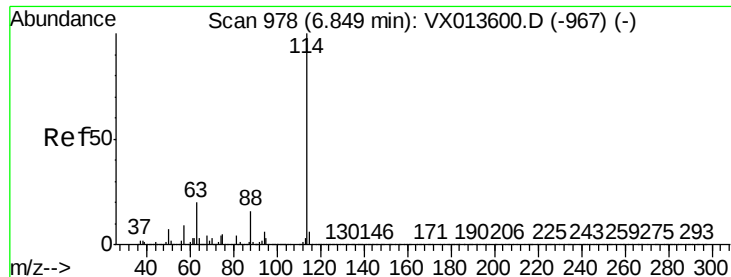
Tot Ion: 56 Resp: 10809  
Ion Ratio Lower Upper  
56 100  
69 169.1 24.6 36.8#  
84 160.3 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 49.783 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

Tgt Ion: 65 Resp: 378775  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

Instrument :

MSVOA\_X

ClientSampled :

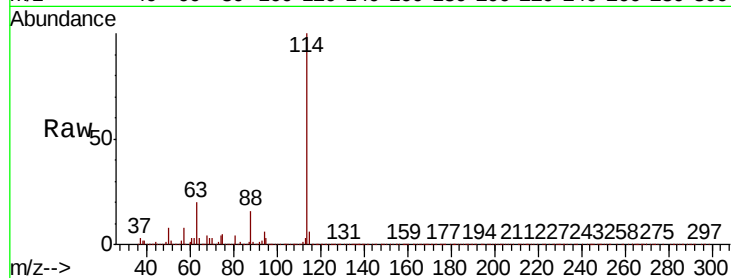
Tot Ion:114 Resp: 1038239

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

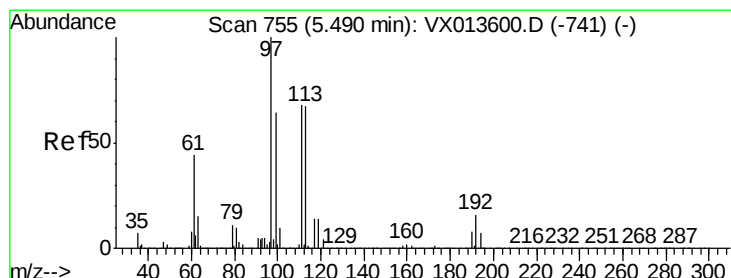
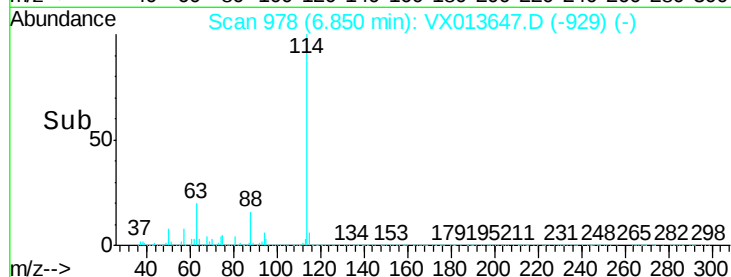
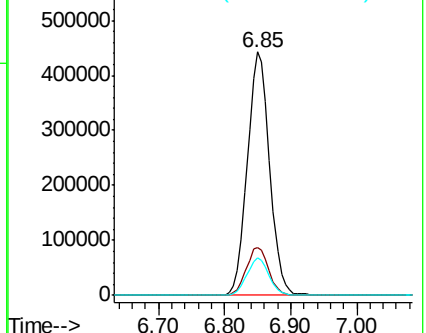
88 15.6 0.0 31.4



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: 48.819 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

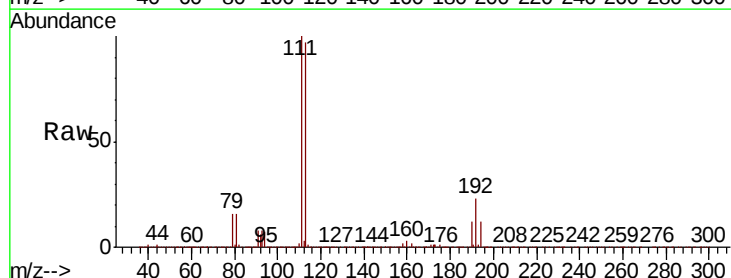
Tgt Ion:113 Resp: 313343

Ion Ratio Lower Upper

113 100

111 101.8 83.6 125.4

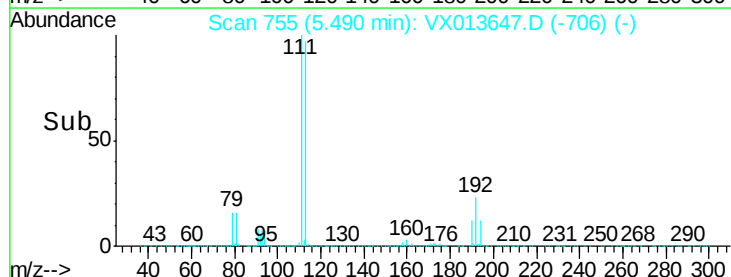
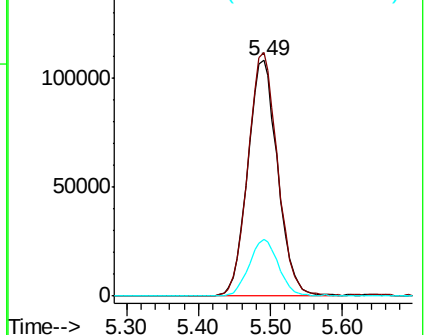
192 23.3 19.2 28.8

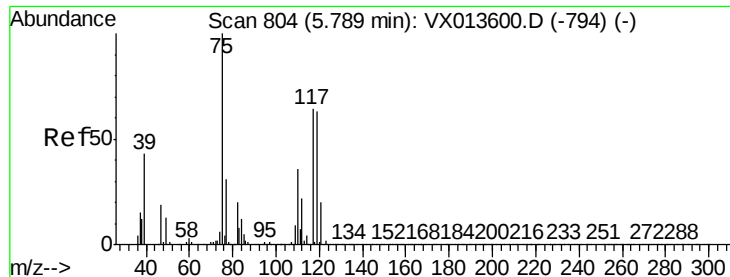


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

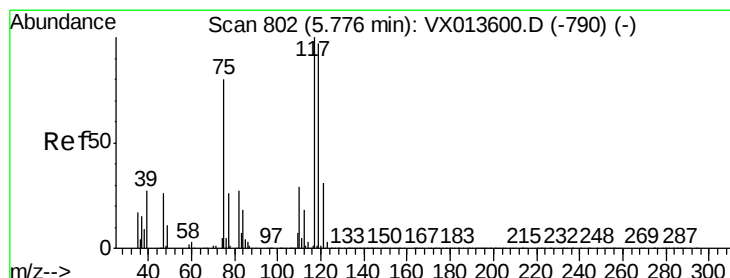
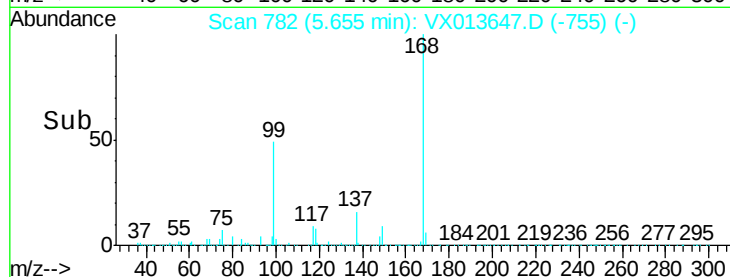
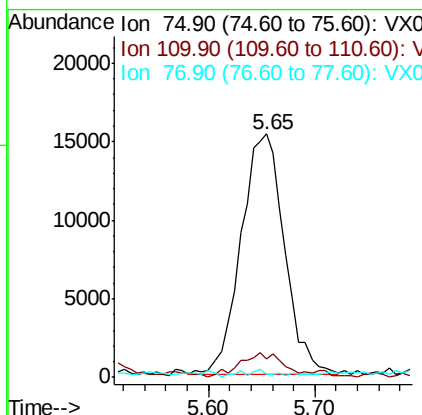
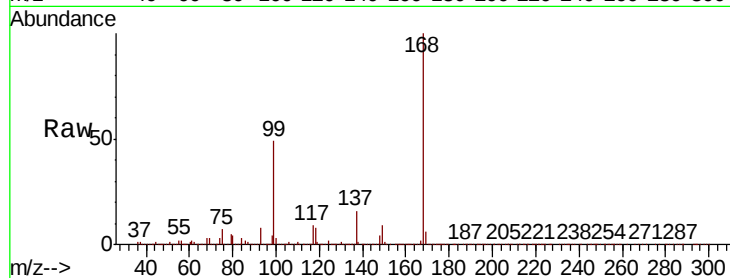




#36  
 1,1-Dichloropropene  
 Concen: 4.611 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.13 min  
 Lab File: VX013647.D  
 Acq: 27 Nov 2019 13:03

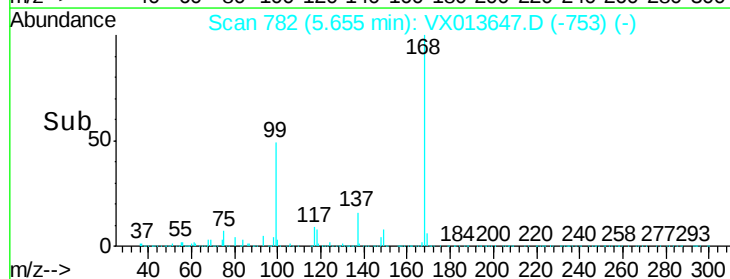
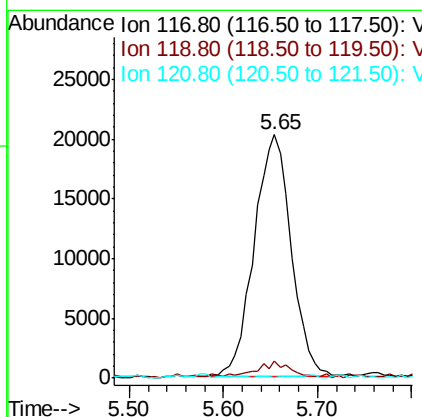
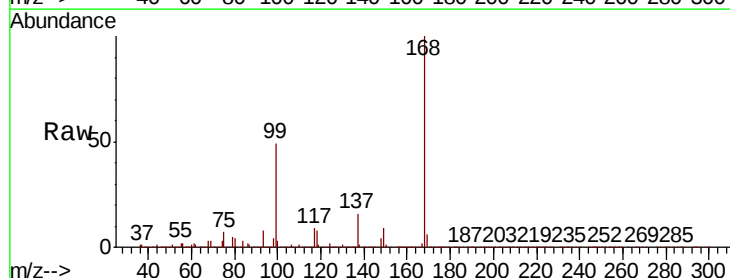
Instrument :  
 MSVOA\_X  
 ClientSampleId :

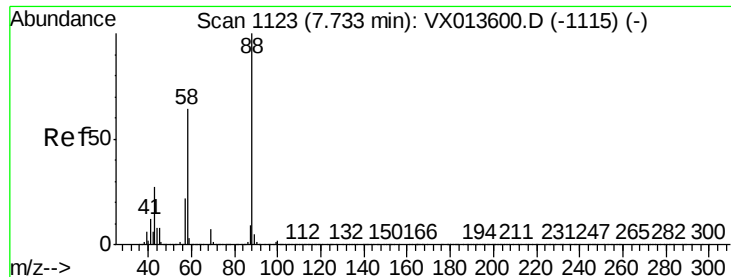
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.6  | 18.1  | 54.1# |
| 77      | 2.1   | 24.5  | 36.7# |



#38  
 Carbon Tetrachloride  
 Concen: 6.428 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.12 min  
 Lab File: VX013647.D  
 Acq: 27 Nov 2019 13:03

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.3   | 77.5  | 116.3# |
| 121     | 0.4   | 25.0  | 37.6#  |





#49

1,4-Dioxane

Concen: 0.349 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

Instrument :  
MSVOA\_X  
ClientSampleId :

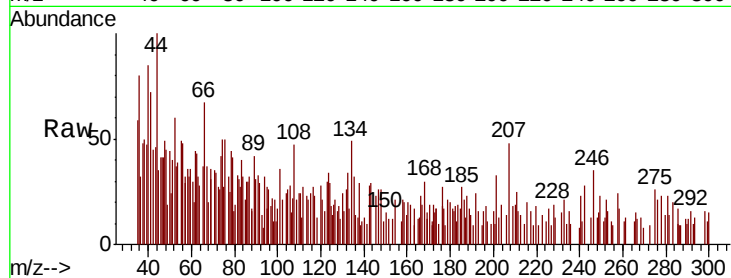
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

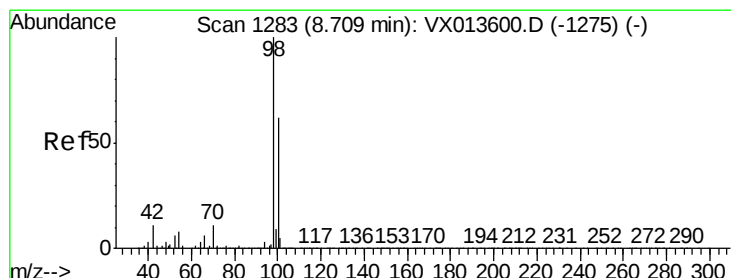
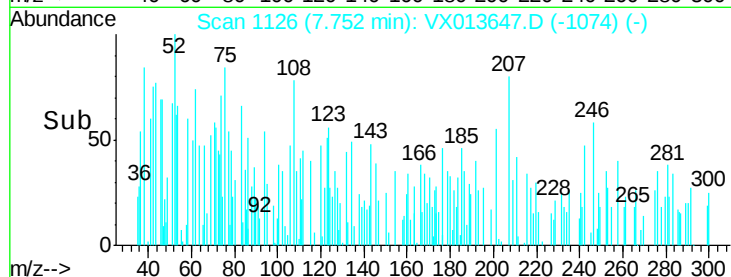
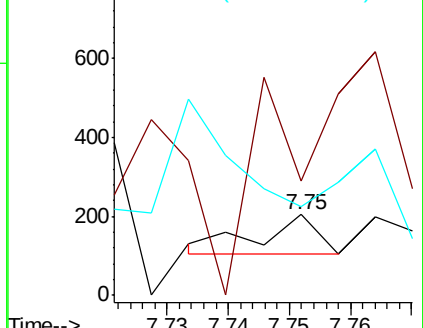
88 100

43 0.0 25.8 38.6#

58 284.8 54.6 82.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.466 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013647.D

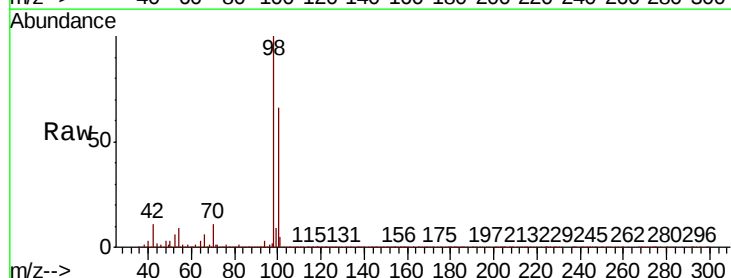
Acq: 27 Nov 2019 13:03

Tgt Ion: 98 Resp: 1237012

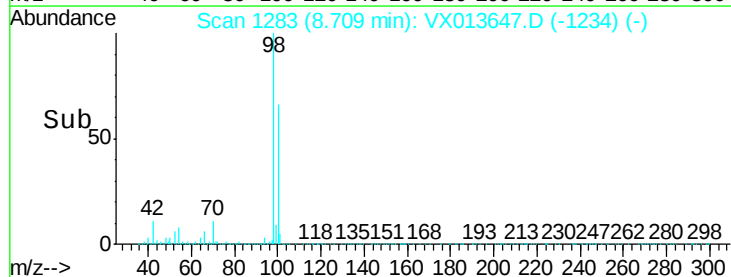
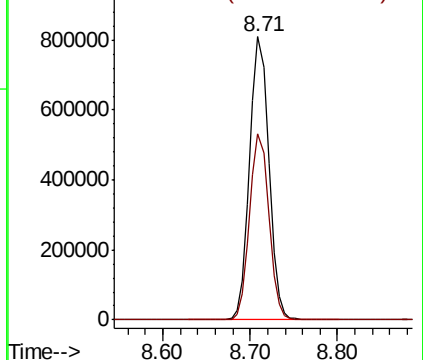
Ion Ratio Lower Upper

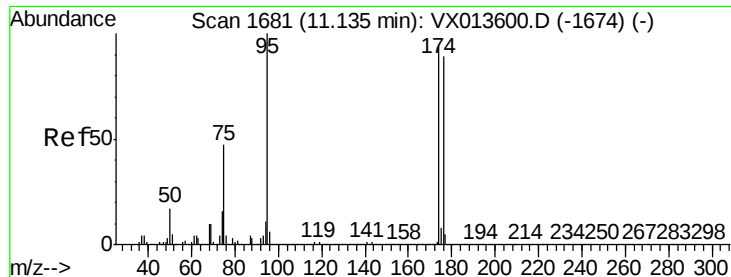
98 100

100 66.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.235 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

Instrument :

MSVOA\_X

ClientSampleId :

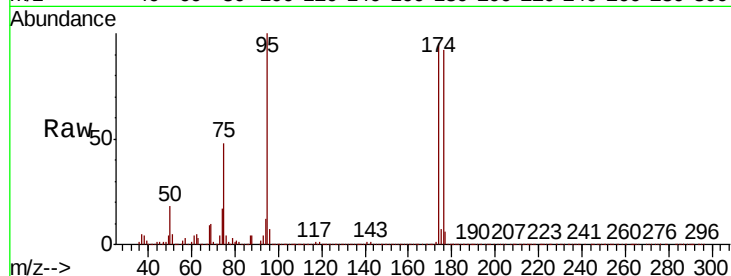
Tot Ion: 95 Resp: 398897

Ion Ratio Lower Upper

95 100

174 90.6 0.0 180.0

176 88.3 0.0 173.6

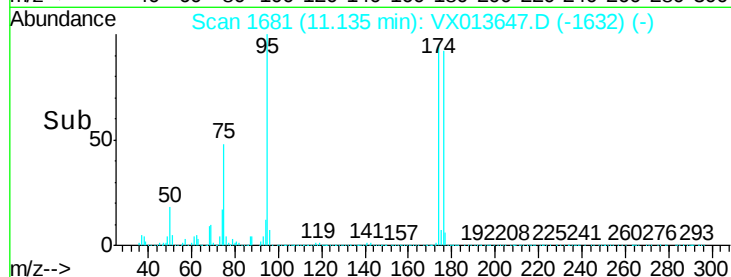


Abundance Ion 94.90 (94.60 to 95.60): VX013647.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013647.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013647.D (-1674) (-)

Time-->

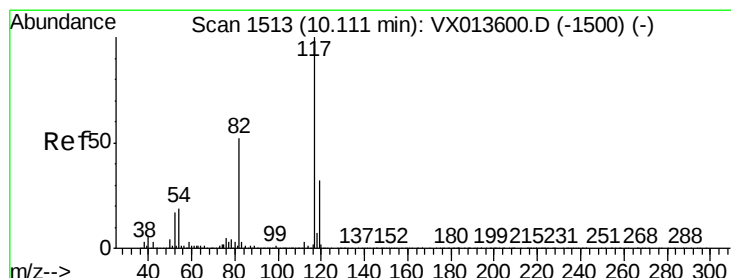


Abundance Ion 94.90 (94.60 to 95.60): VX013647.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013647.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013647.D (-1674) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

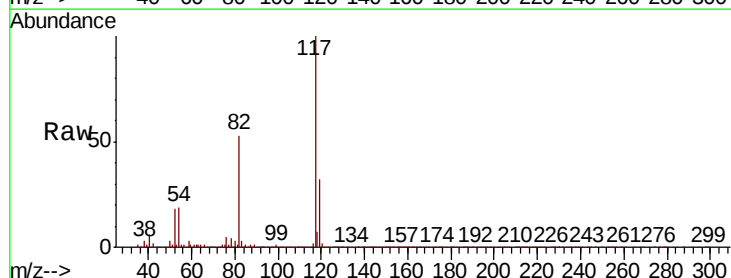
Tgt Ion: 117 Resp: 921007

Ion Ratio Lower Upper

117 100

82 52.8 41.8 62.8

119 31.6 25.8 38.8

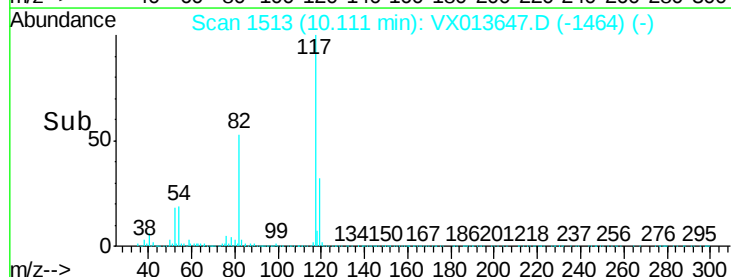


Abundance Ion 116.90 (116.60 to 117.60): VX013647.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013647.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013647.D (-1464) (-)

Time-->

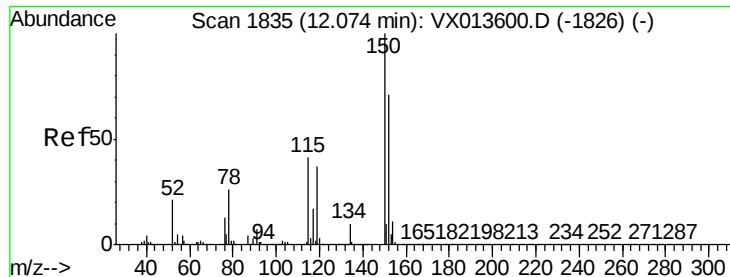


Abundance Ion 116.90 (116.60 to 117.60): VX013647.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013647.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013647.D (-1464) (-)

Time-->

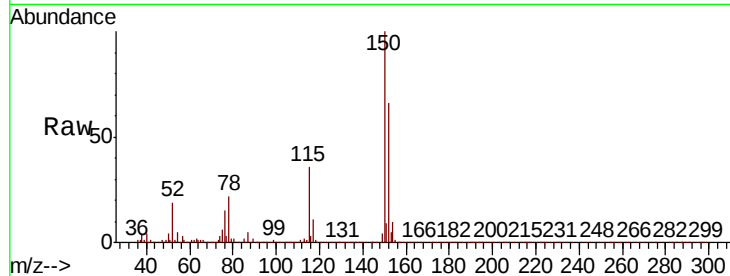


#72

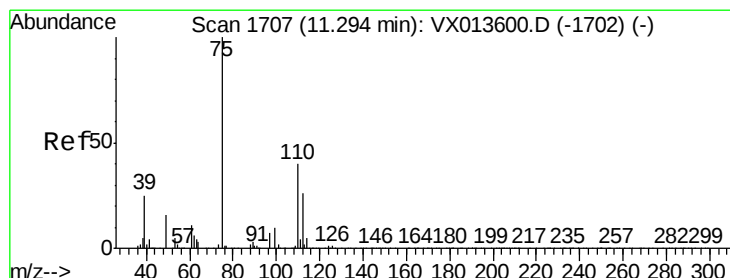
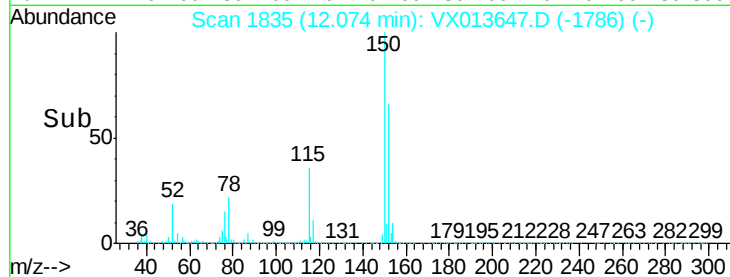
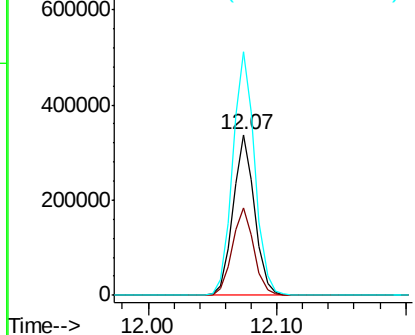
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 38.4  | 115.1 |
| 150     | 156.4 | 0.0   | 346.8 |



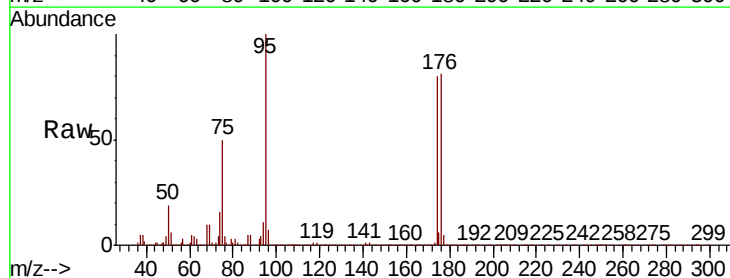
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



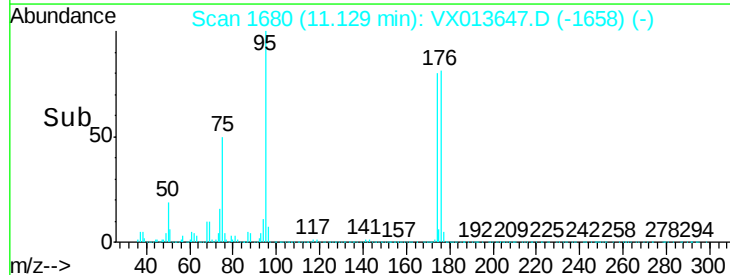
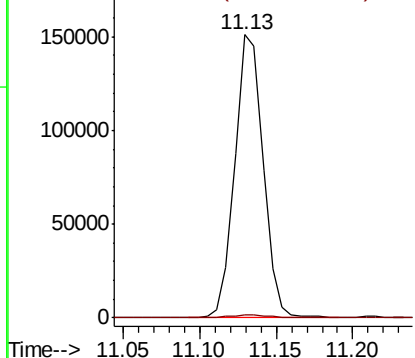
#76

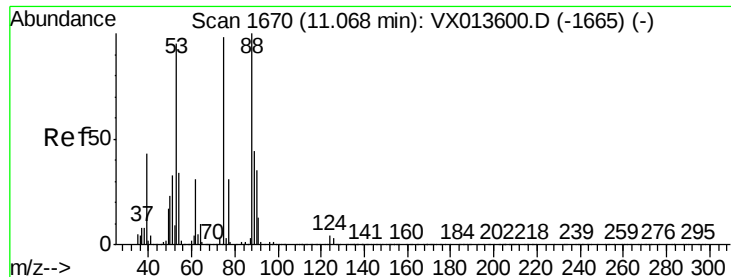
1,2,3-Trichloropropane  
Concen: 21.963 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.16 min  
Lab File: VX013647.D  
Acq: 27 Nov 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 19.1  | 57.5# |



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: 60.087 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013647.D

Acq: 27 Nov 2019 13:03

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 75 Resp: 193976

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.1 35.4 53.2#

