

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112519\  
 Data File : VX013587.D  
 Acq On : 25 Nov 2019 17:33  
 Operator : JC/SP  
 Sample : K5968-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 26 03:16:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 685324   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1108420  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 989513   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 462357   | 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   | 398401   | 49.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 330209   | 47.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.00%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1321101  | 50.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.82% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 455631   | 48.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.34%  |          |

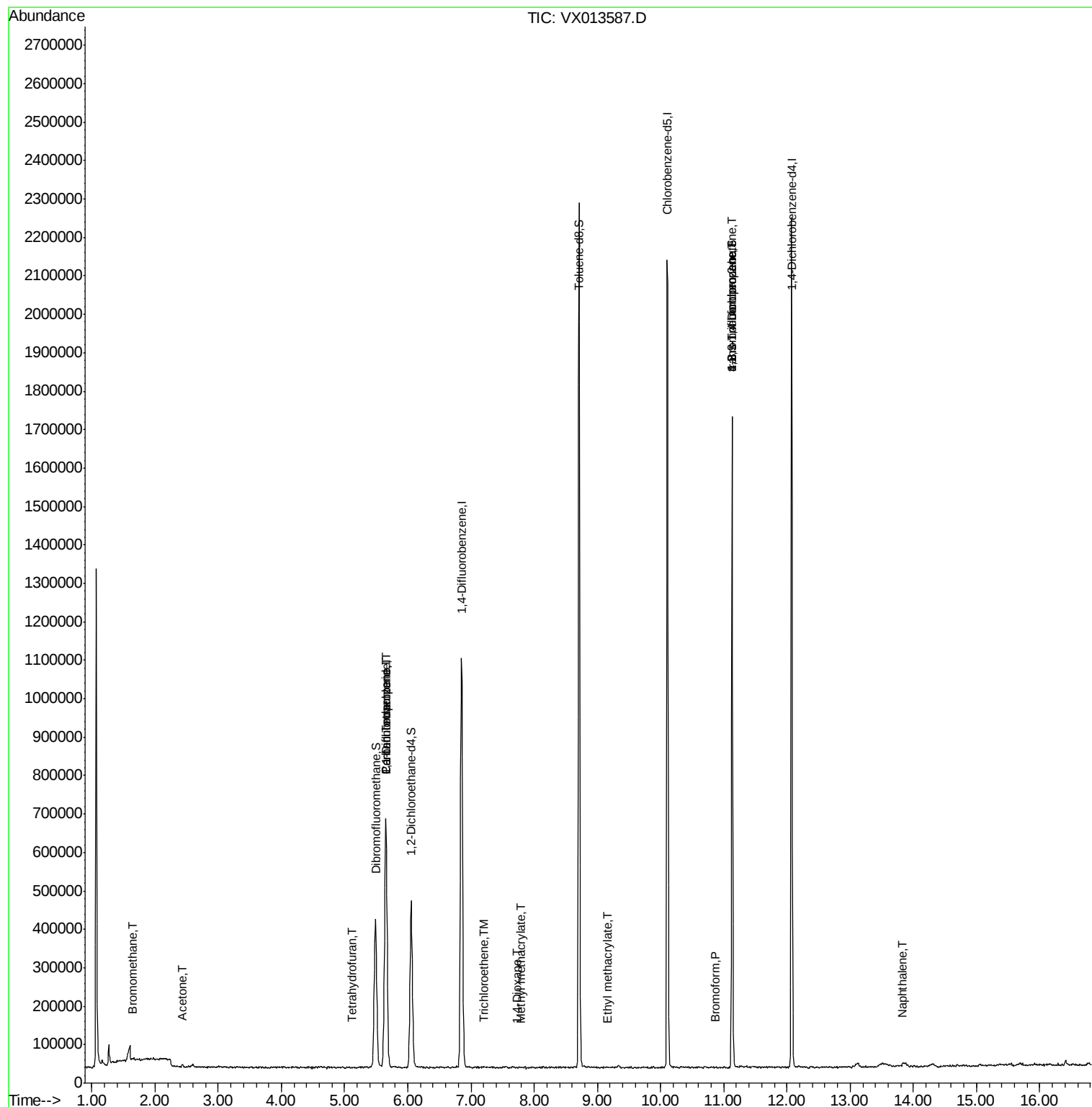
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 1367     | 0.201     | ug/l # | 79     |
| 6) Chloroethane                | 1.75  | 64   | 1001     | Below Cal | #      | 43     |
| 16) Acetone                    | 2.44  | 43   | 7502     | 1.852     | ug/l # | 86     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 1575     | 0.430     | ug/l # | 58     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 44711    | 4.702     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 58826    | 6.326     | ug/l # | 16     |
| 44) Trichloroethene            | 7.21  | 130  | 1722     | 0.211     | ug/l   | 52     |
| 48) Methyl methacrylate        | 7.78  | 41   | 1842     | 0.202     | ug/l # | 25     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 889      | 4.250     | ug/l # | 24     |
| 56) Ethyl methacrylate         | 9.16  | 69   | 550      | 1.604     | ug/l # | 1      |
| 71) Bromoform                  | 10.85 | 173  | 210      | 3.231     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 223597   | 23.810    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 223597   | 61.285    | ug/l # | 9      |
| 95) Naphthalene                | 13.83 | 128  | 7437     | 0.233     | ug/l # | 76     |

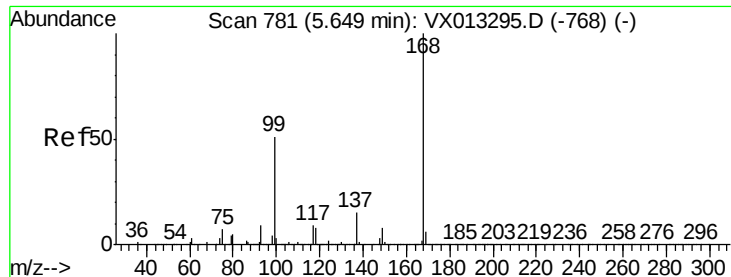
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 07:06:38 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: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :

MSVOA\_X

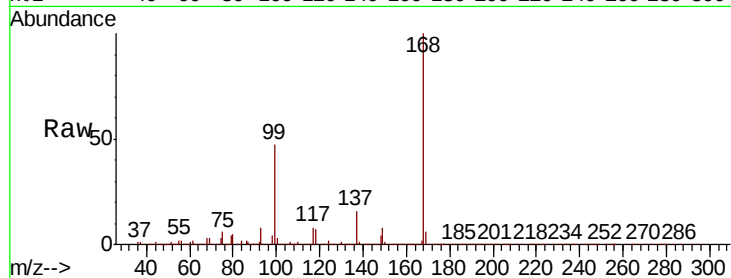
ClientSampled :

Tot Ion:168 Resp: 685324

Ion Ratio Lower Upper

168 100

99 47.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

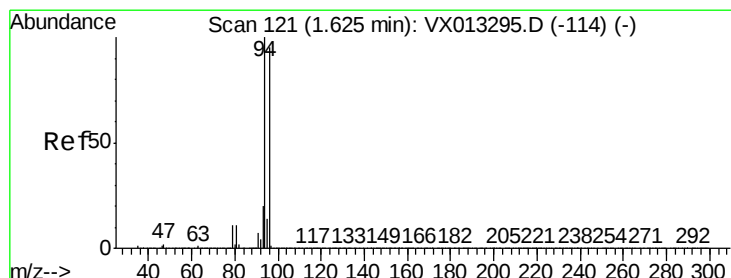
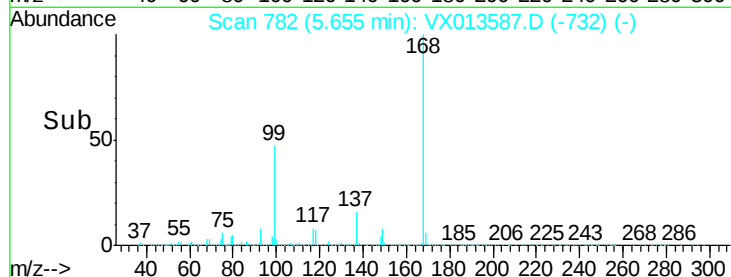
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.201 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX013587.D

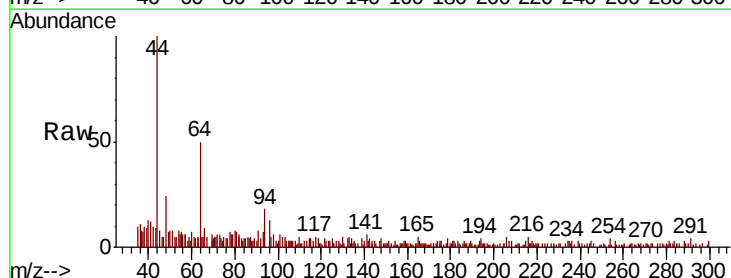
Acq: 25 Nov 2019 17:33

Tgt Ion: 94 Resp: 1367

Ion Ratio Lower Upper

94 100

96 74.2 75.8 113.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

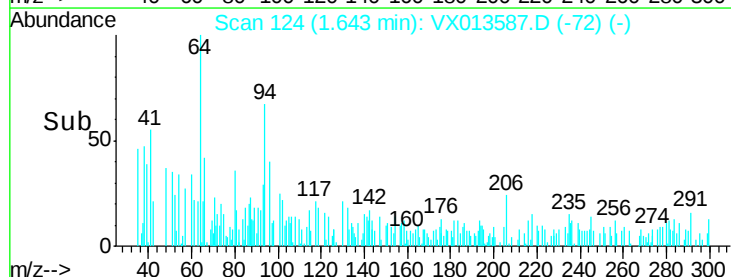
600

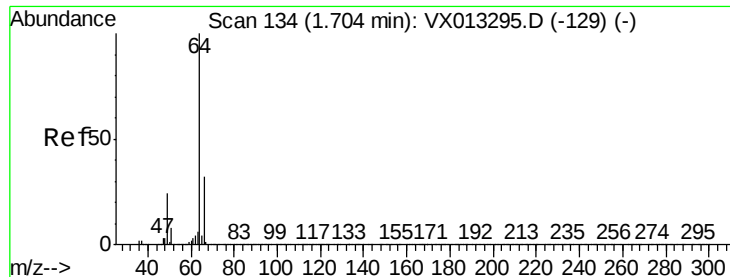
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 141

Delta R.T. 0.04 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :

MSVOA\_X

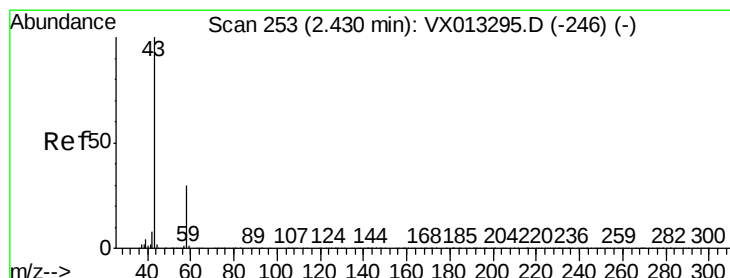
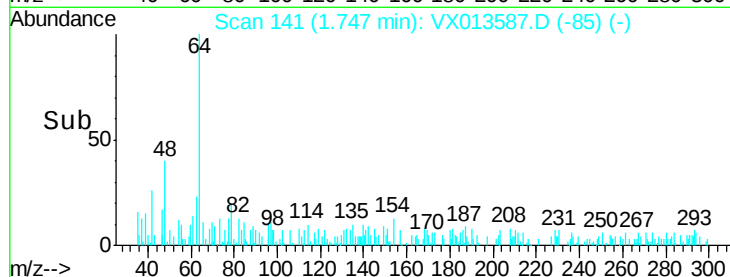
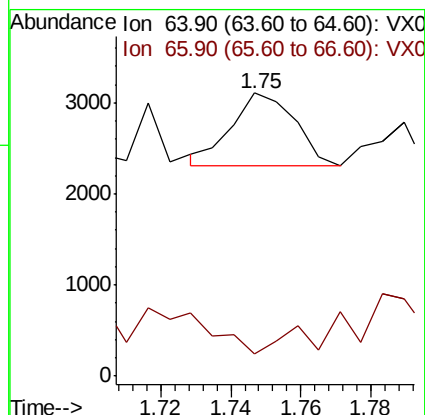
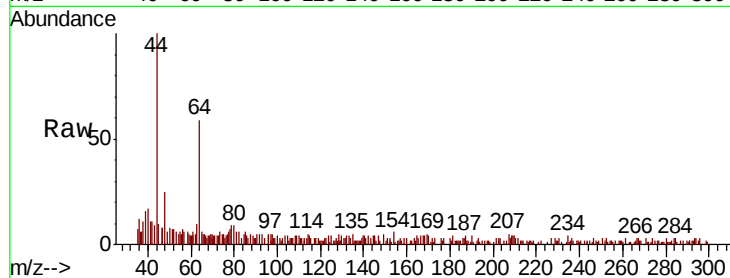
ClientSampleId :

Tot Ion: 64 Resp: 1001

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#16

Acetone

Concen: 1.852 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013587.D

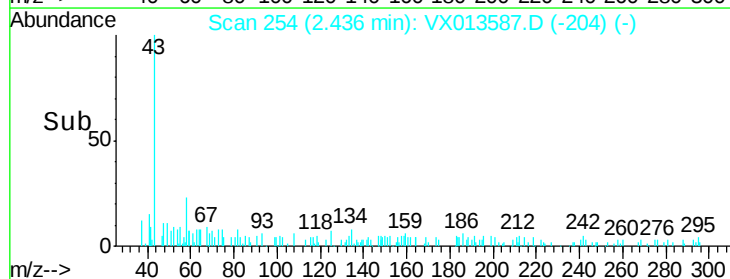
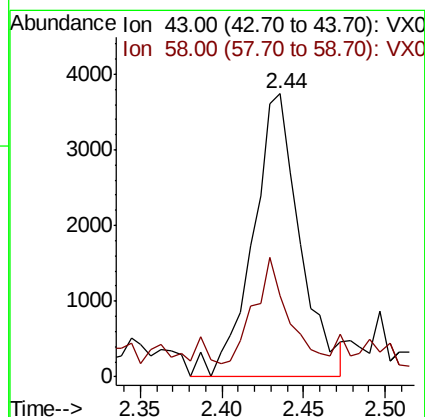
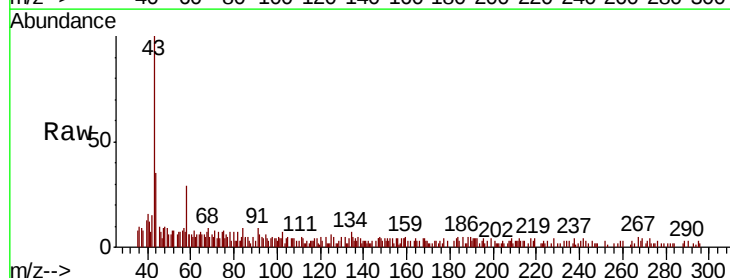
Acq: 25 Nov 2019 17:33

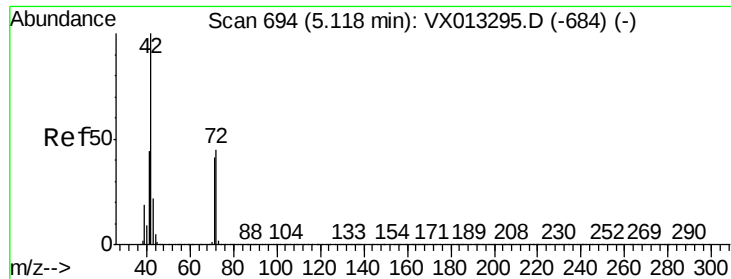
Tgt Ion: 43 Resp: 7502

Ion Ratio Lower Upper

43 100

58 22.9 24.3 36.5#





#29

Tetrahydrofuran

Concen: 0.430 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.01 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :

MSVOA\_X

ClientSampleId :

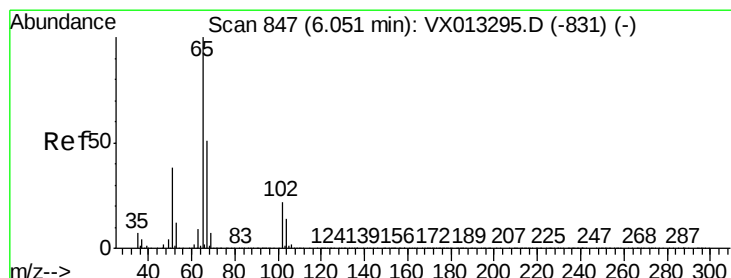
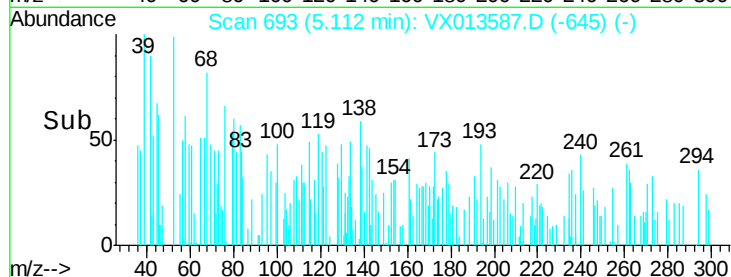
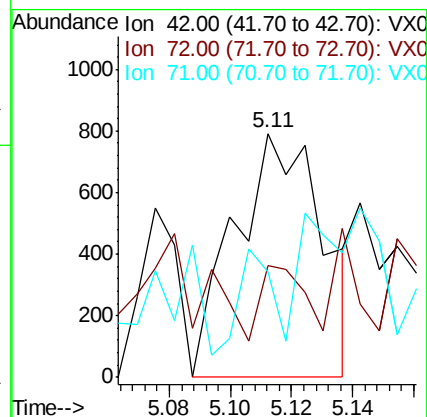
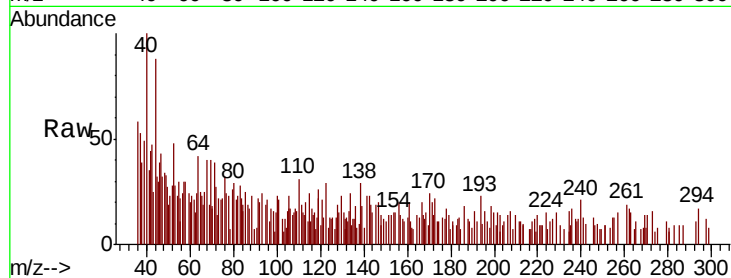
Tot Ion: 42 Resp: 1575

Ion Ratio Lower Upper

42 100

72 15.7 35.8 53.8#

71 16.8 33.4 50.0#



#33

1,2-Dichloroethane-d4

Concen: 49.070 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013587.D

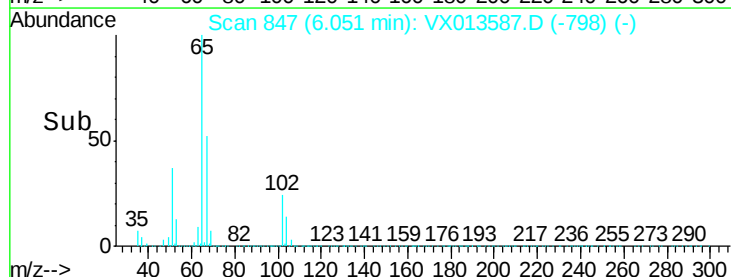
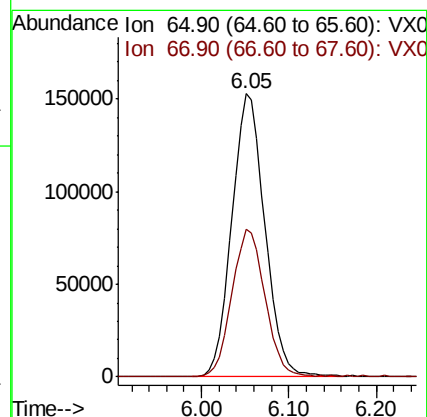
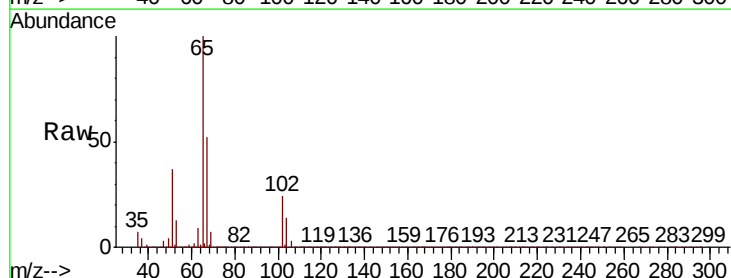
Acq: 25 Nov 2019 17:33

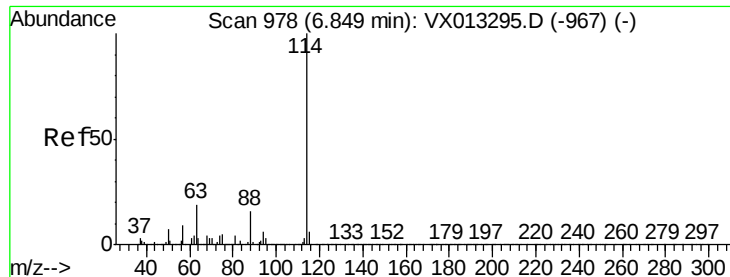
Tgt Ion: 65 Resp: 398401

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :

MSVOA\_X

ClientSampleId :

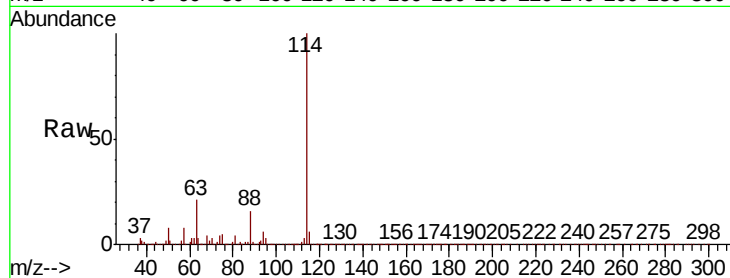
Tot Ion:114 Resp: 1108420

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

88 16.0 0.0 32.2



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

600000

500000

400000

300000

200000

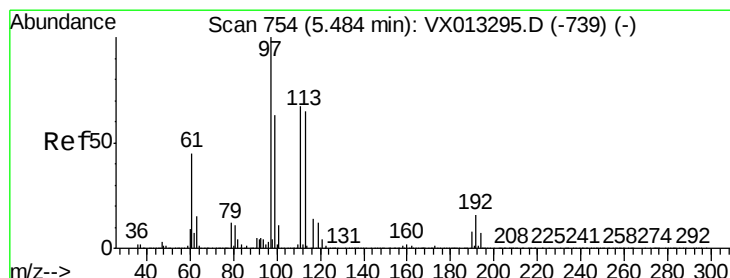
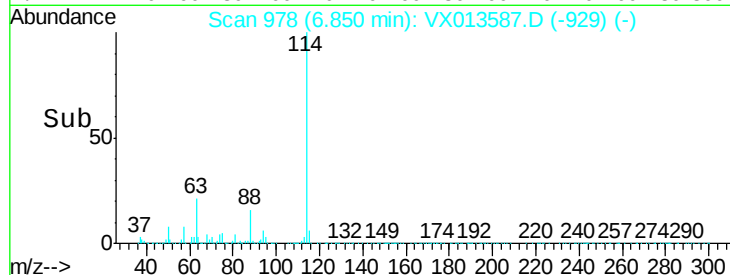
100000

0

6.85

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 47.497 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

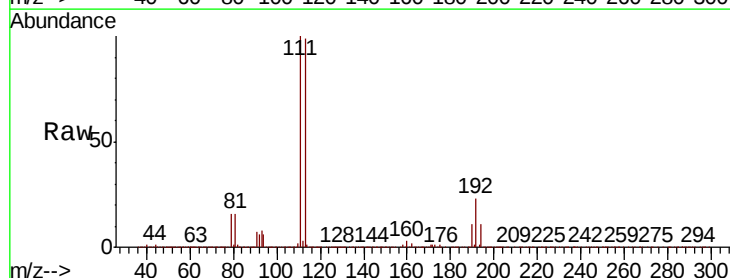
Tgt Ion:113 Resp: 330209

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

192 23.4 19.1 28.7



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

150000

100000

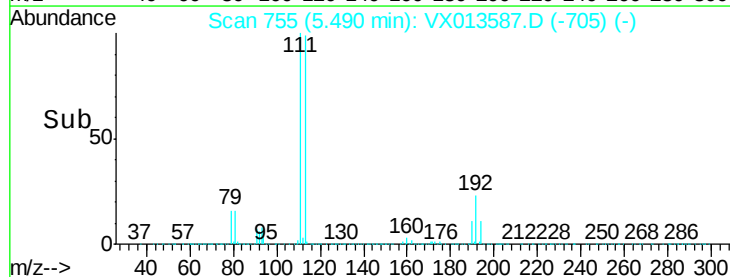
50000

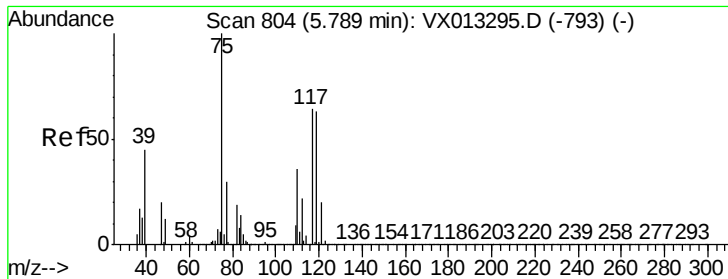
0

5.49

5.30 5.40 5.50 5.60

Time-->

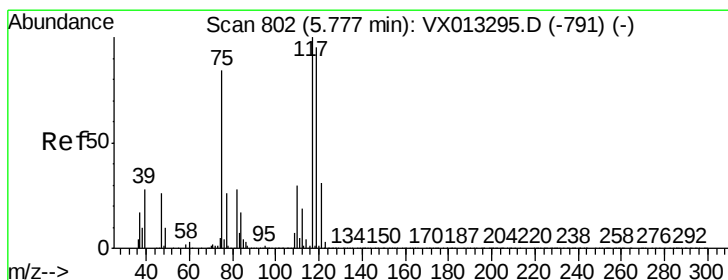
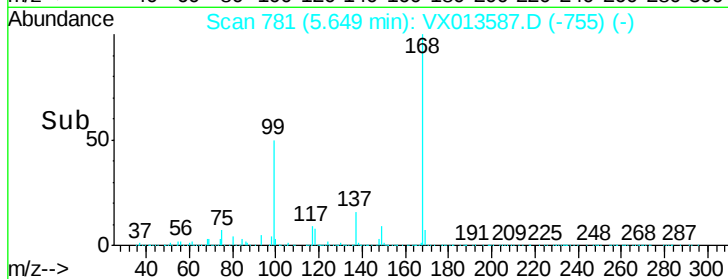
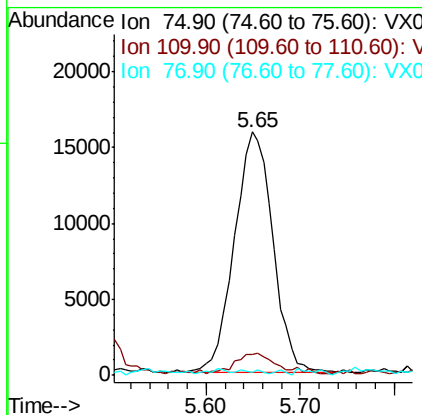
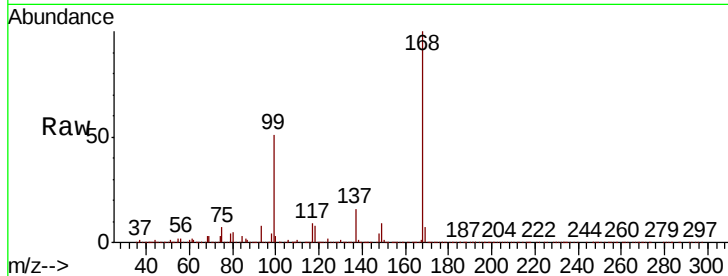




#36  
 1,1-Dichloropropene  
 Concen: 4.702 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX013587.D  
 Acq: 25 Nov 2019 17:33

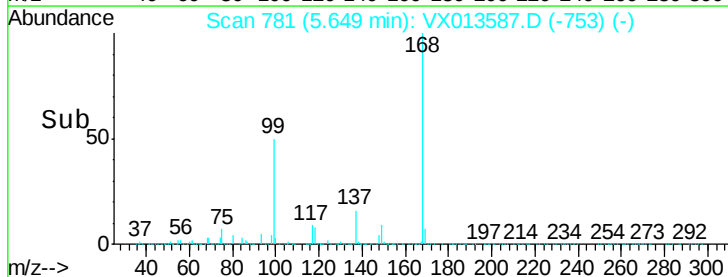
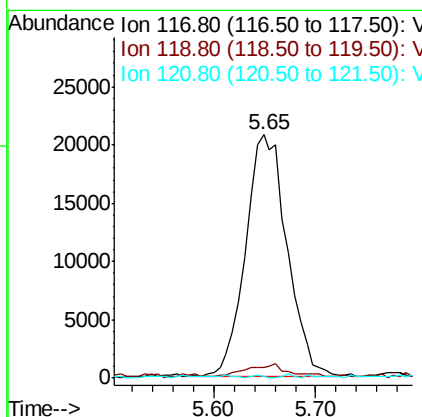
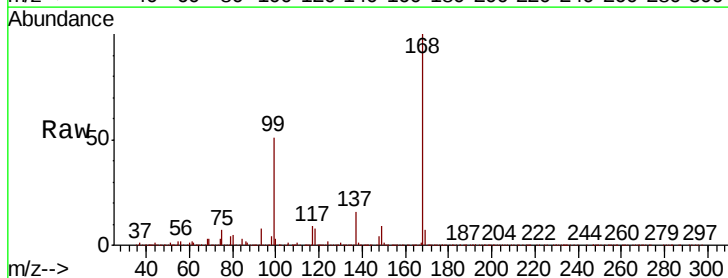
Instrument :  
 MSVOA\_X  
 ClientSampleId :

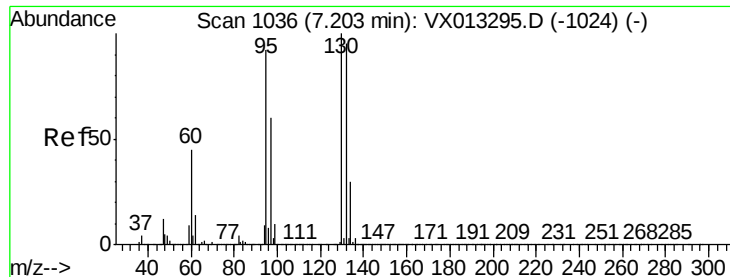
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 18.1  | 54.1# |
| 77      | 0.5   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 6.326 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.13 min  
 Lab File: VX013587.D  
 Acq: 25 Nov 2019 17:33

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.1   | 76.1  | 114.1# |
| 121     | 0.3   | 24.6  | 37.0#  |





#44

Trichloroethene

Concen: 0.211 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :

MSVOA\_X

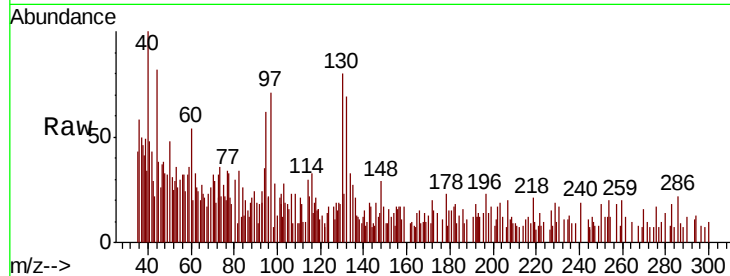
ClientSampled :

Tot Ion:130 Resp: 1722

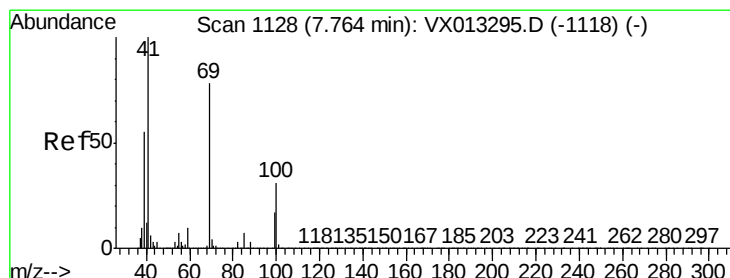
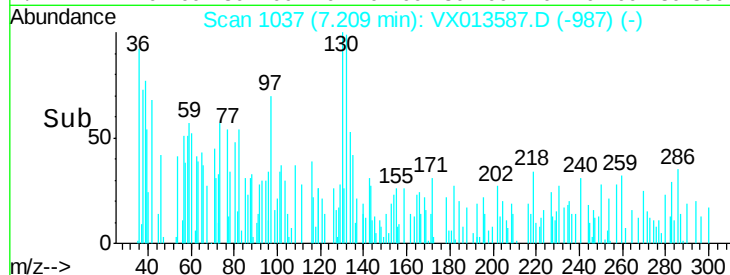
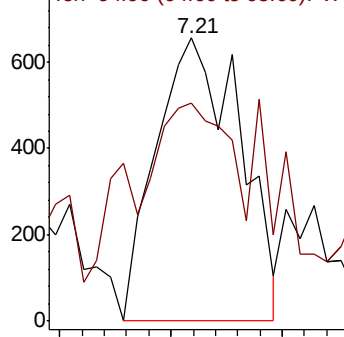
Ion Ratio Lower Upper

130 100

95 46.5 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V



#48

Methyl methacrylate

Concen: 0.202 ug/l

RT: 7.78 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

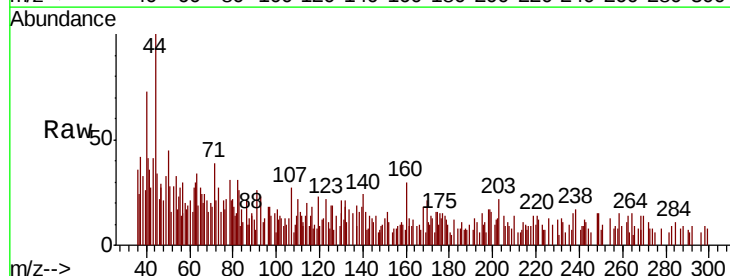
Tgt Ion: 41 Resp: 1842

Ion Ratio Lower Upper

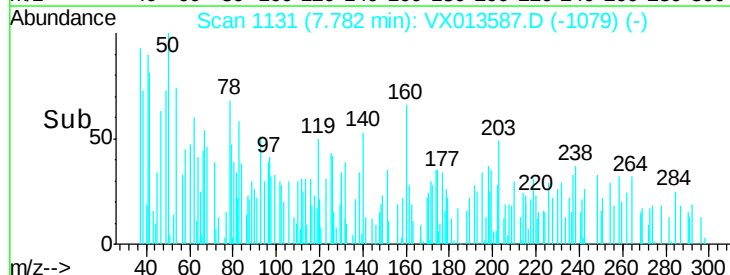
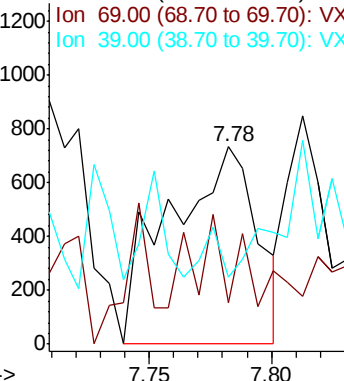
41 100

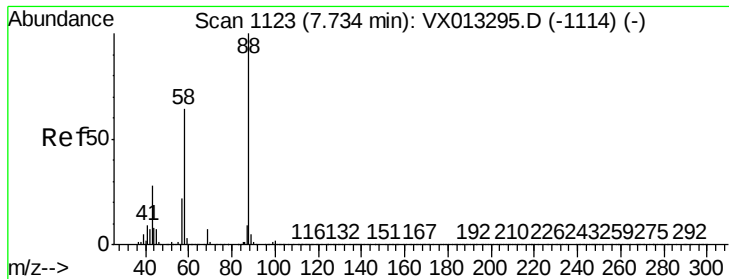
69 6.5 63.0 94.6#

39 9.1 45.9 68.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0





#49

1,4-Dioxane

Concen: 4.250 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

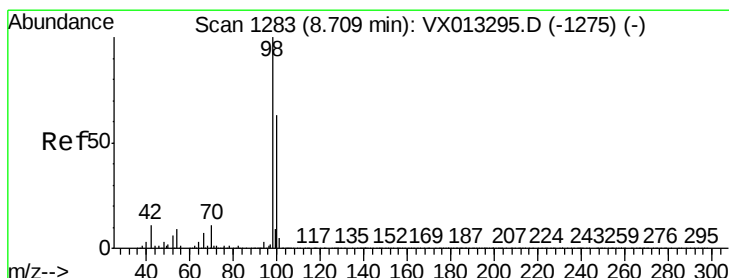
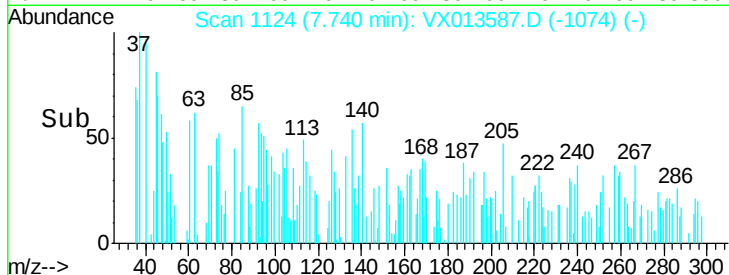
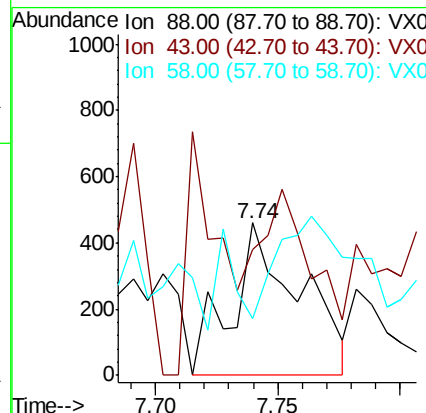
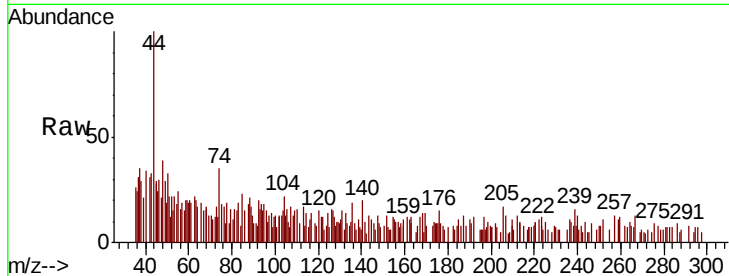
Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 88 Resp: 889

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 0.0   | 26.6  | 39.8# |
| 58  | 0.0   | 55.0  | 82.6# |



#50

Toluene-d8

Concen: 50.407 ug/l

RT: 8.71 min Scan# 1283

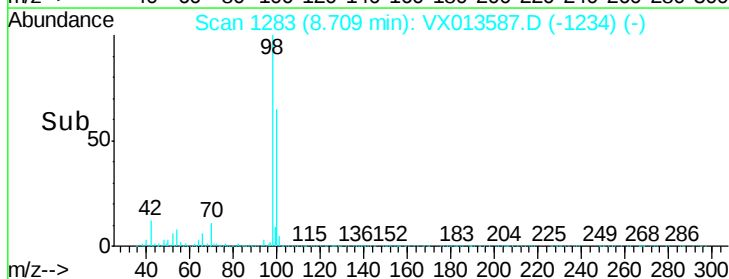
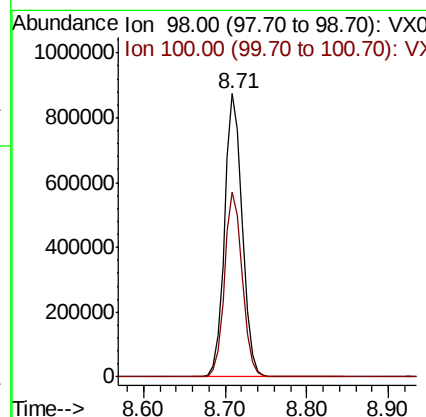
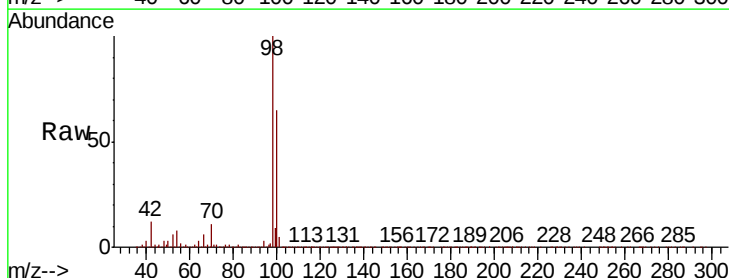
Delta R.T. 0.00 min

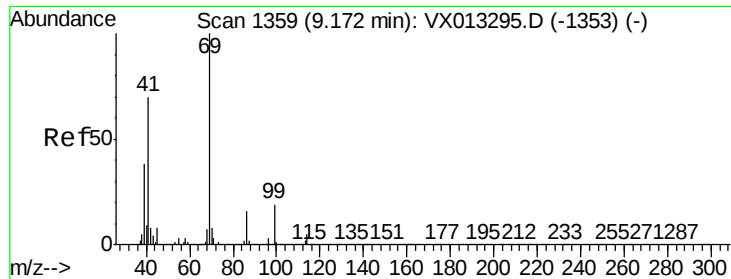
Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Tgt Ion: 98 Resp: 1321101

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 65.6  | 52.2  | 78.2  |





#56

Ethyl methacrylate

Concen: 1.604 ug/l

RT: 9.16 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

Instrument :  
MSVOA\_X  
ClientSampled :

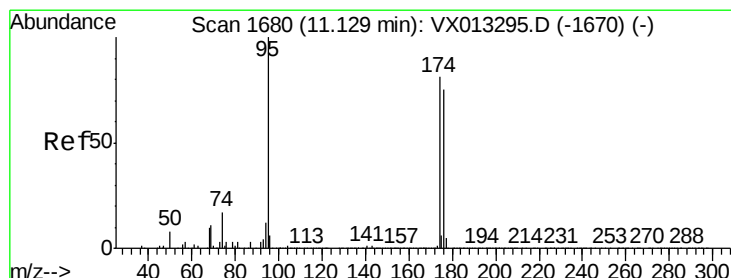
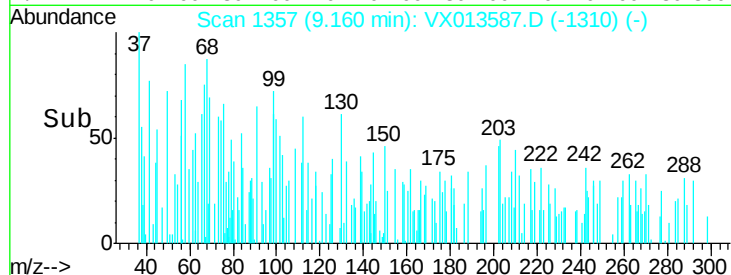
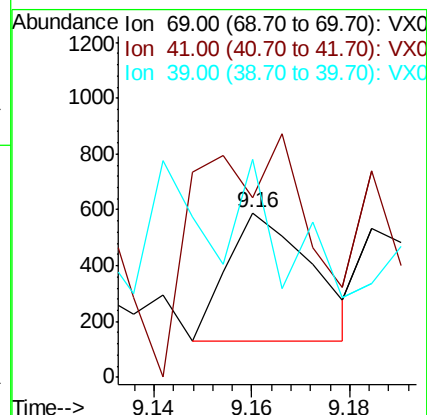
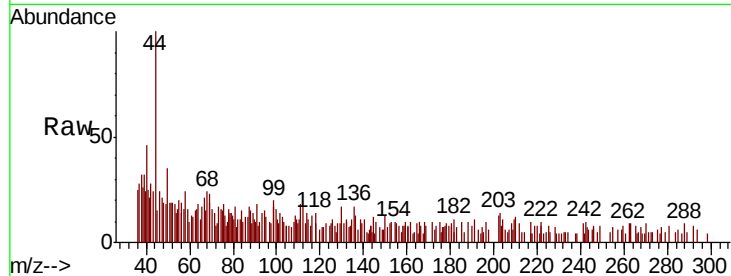
Tot Ion: 69 Resp: 550

Ion Ratio Lower Upper

69 100

41 255.1 56.2 84.2#

39 0.0 31.1 46.7#



#62

4-Bromofluorobenzene

Concen: 48.169 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX013587.D

Acq: 25 Nov 2019 17:33

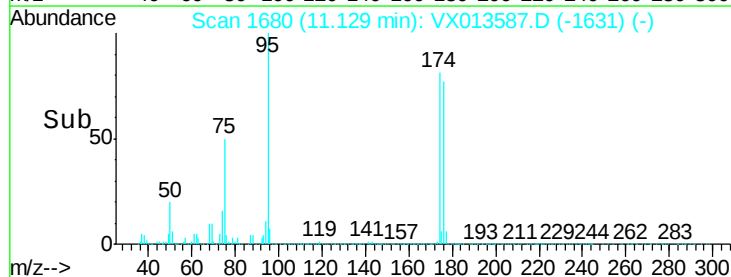
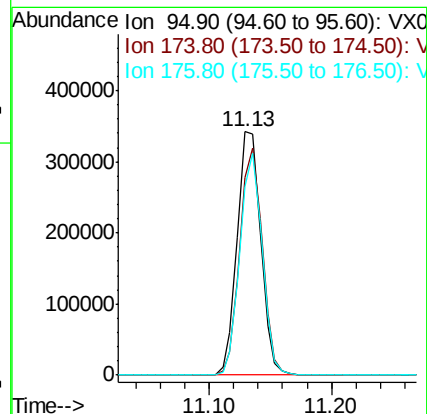
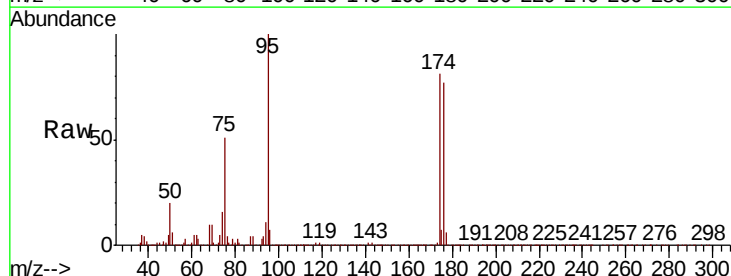
Tgt Ion: 95 Resp: 455631

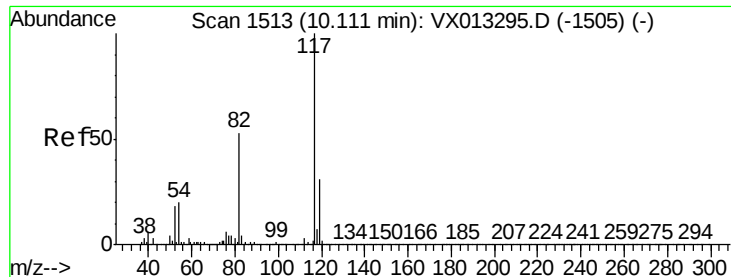
Ion Ratio Lower Upper

95 100

174 89.0 0.0 179.8

176 86.2 0.0 173.0

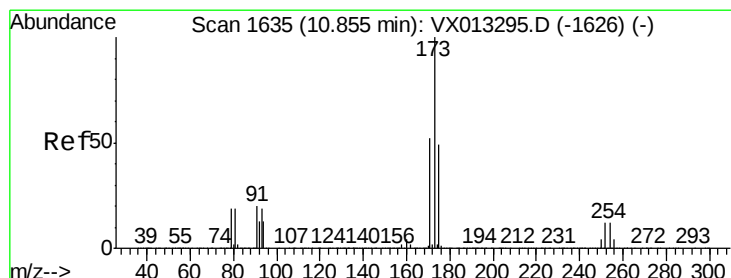
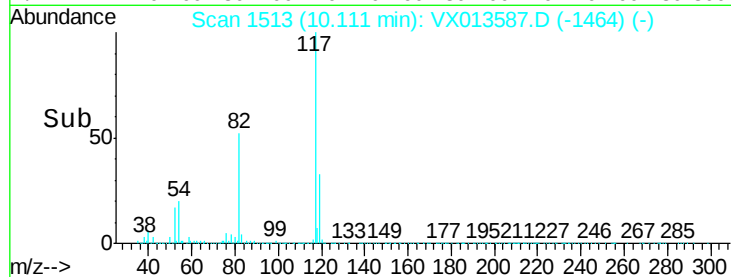
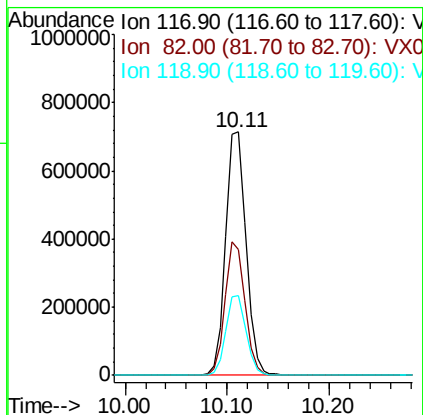
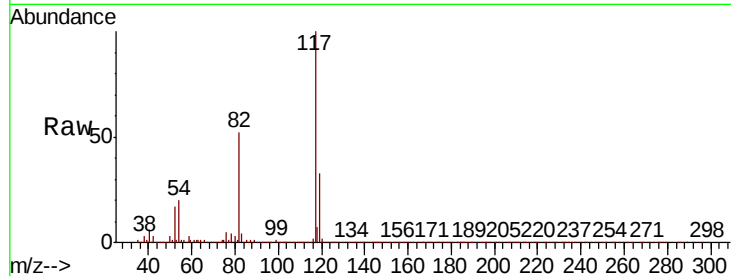




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX013587.D  
Acq: 25 Nov 2019 17:33

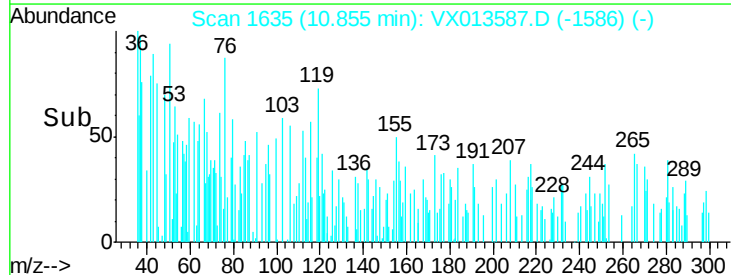
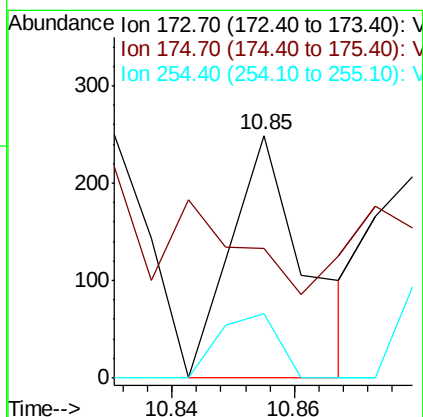
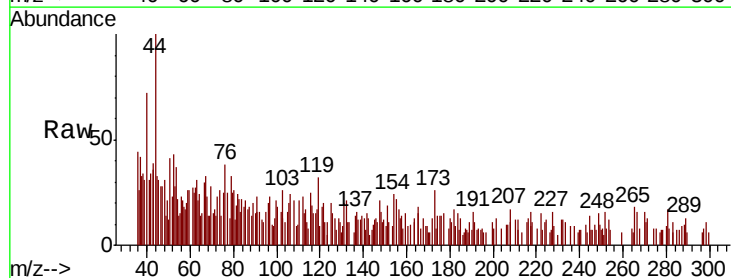
Instrument :  
MSVOA\_X  
ClientSampleId :

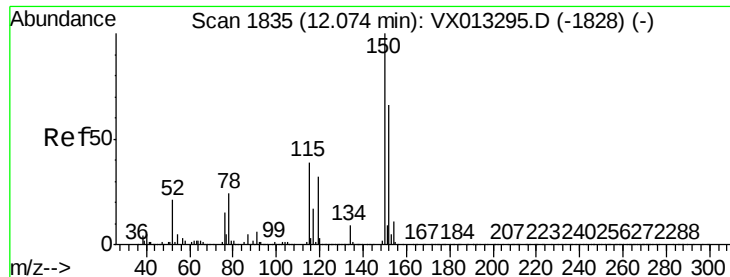
Tot Ion:117 Resp: 989513  
Ion Ratio Lower Upper  
117 100  
82 51.5 42.6 64.0  
119 32.5 24.8 37.2



#71  
Bromoform  
Concen: 3.231 ug/l  
RT: 10.85 min Scan# 1635  
Delta R.T. 0.00 min  
Lab File: VX013587.D  
Acq: 25 Nov 2019 17:33

Tgt Ion:173 Resp: 210  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.8 74.4#  
254 21.0 0.2 0.2#



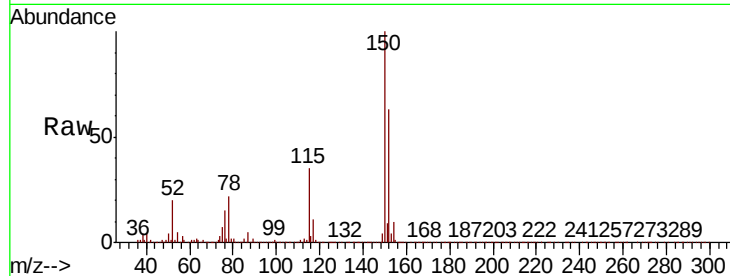


#72

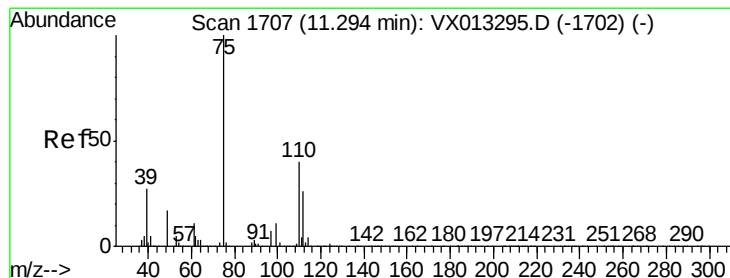
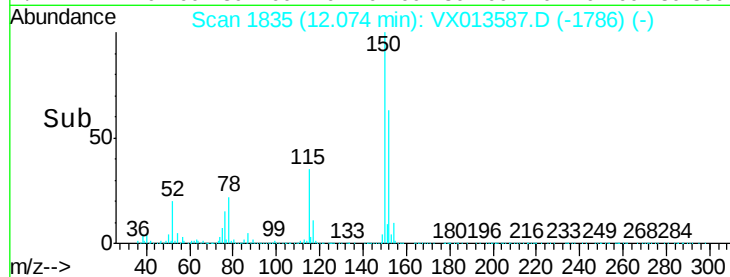
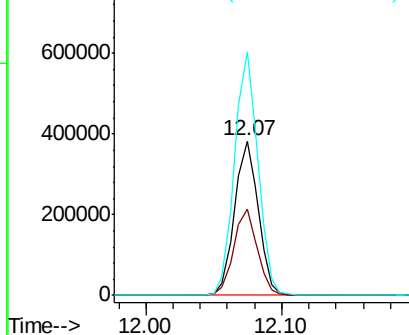
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX013587.D  
Acq: 25 Nov 2019 17:33

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.6  | 39.5  | 118.3 |
| 150     | 156.3 | 0.0   | 344.4 |



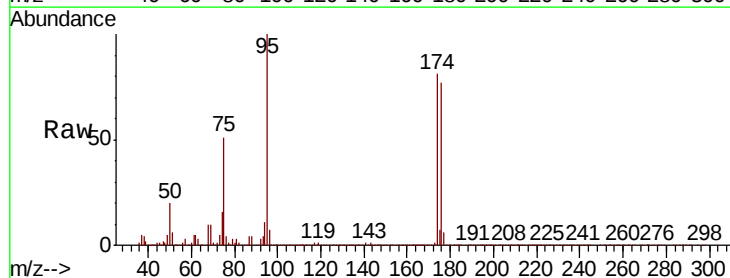
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



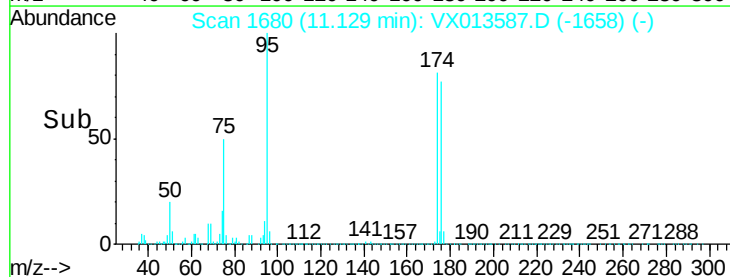
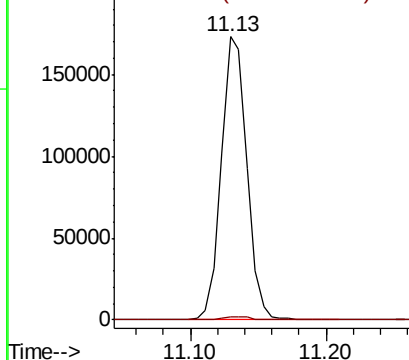
#76

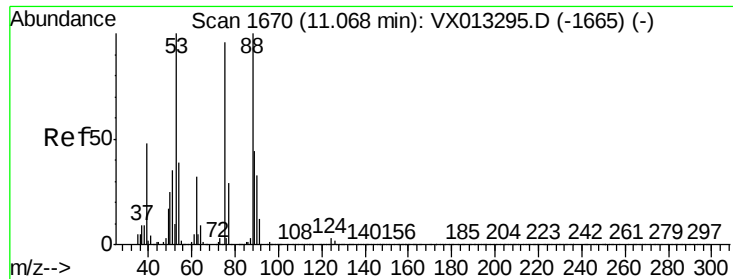
1,2,3-Trichloropropane  
Concen: 23.810 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.16 min  
Lab File: VX013587.D  
Acq: 25 Nov 2019 17:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 22.3  | 66.8  |



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 77.00 (76.70 to 77.70): VX0

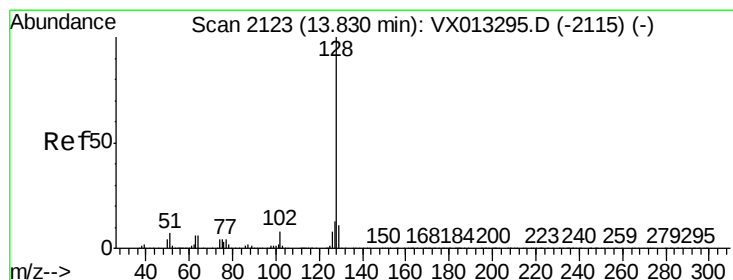
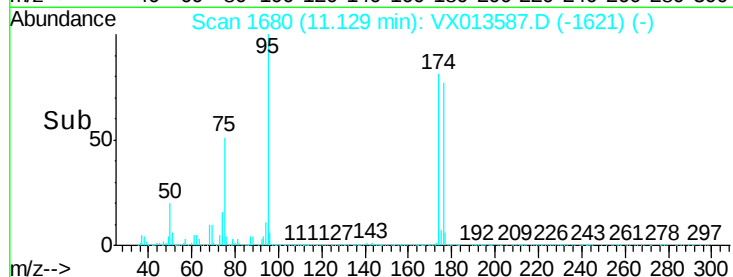
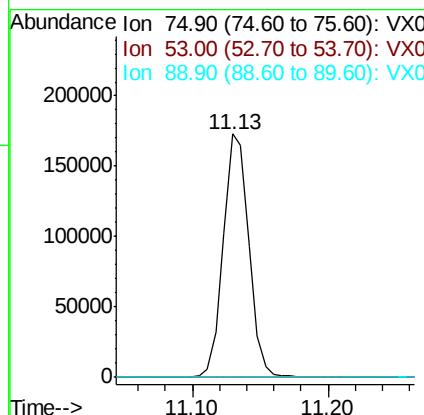
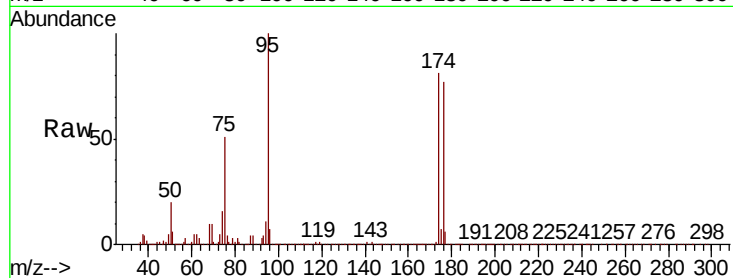




#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.285 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.06 min  
Lab File: VX013587.D  
Acq: 25 Nov 2019 17:33

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.2   | 81.0  | 121.6# |
| 89      | 0.0   | 36.0  | 54.0#  |



#95  
Naphthalene  
Concen: 0.233 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX013587.D  
Acq: 25 Nov 2019 17:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 22.3  | 10.2  | 15.2# |
| 129     | 19.7  | 8.5   | 12.7# |

