

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101719\  
 Data File : VX013101.D  
 Acq On : 17 Oct 2019 12:51  
 Operator : JC/SP  
 Sample : VX1017WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1017WBL01

Quant Time: Oct 18 08:01:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 16 07:26:22 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 166191   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 270820   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 227905   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 92506    | 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   | 100678   | 48.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.94%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 80435    | 51.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.50% |          |
| 50) Toluene-d8              | 8.71  | 98   | 310354   | 51.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.38% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 106725   | 45.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.62%  |          |

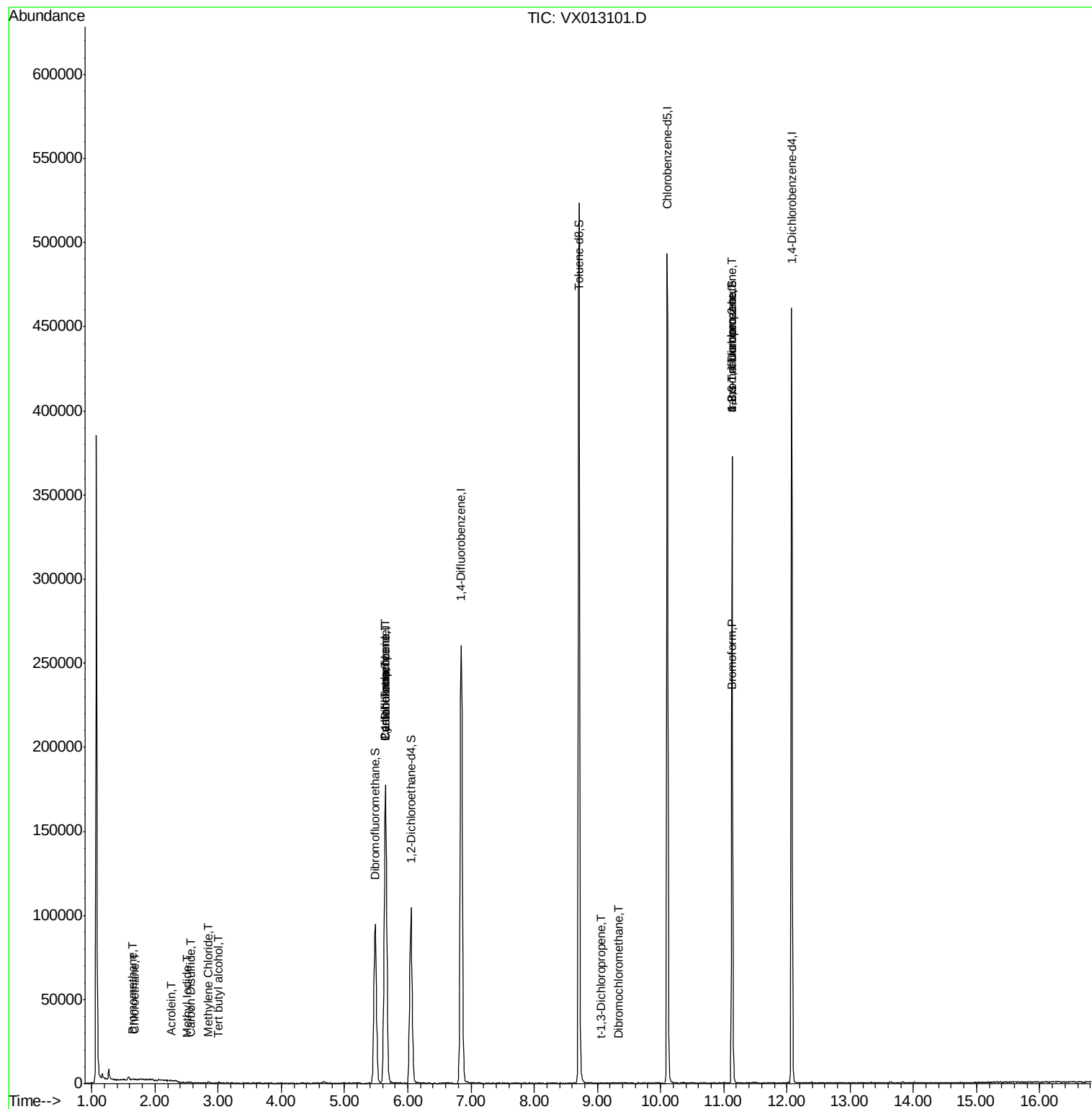
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 498      | 0.630  | ug/l # | 60     |
| 6) Chloroethane                | 1.68  | 64   | 415      | 0.722  | ug/l # | 43     |
| 10) Methyl Iodide              | 2.50  | 142  | 451      | 5.297  | ug/l   | 92     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 665      | 1.208  | ug/l # | 72     |
| 13) Acrolein                   | 2.27  | 56   | 129      | 0.330  | ug/l   | 92     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1092     | 0.228  | ug/l # | 92     |
| 20) Methylene Chloride         | 2.84  | 84   | 443      | 0.220  | ug/l # | 75     |
| 31) Cyclohexane                | 5.65  | 56   | 3557     | 1.180  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 12661    | 5.317  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 17395    | 7.506  | ug/l # | 18     |
| 53) t-1,3-Dichloropropene      | 9.06  | 75   | 78       | 2.194  | ug/l # | 42     |
| 60) Dibromochloromethane       | 9.34  | 129  | 52       | 1.882  | ug/l # | 10     |
| 71) Bromoform                  | 11.12 | 173  | 28       | 3.152  | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 52535    | 25.605 | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 52535    | 64.548 | ug/l # | 10     |

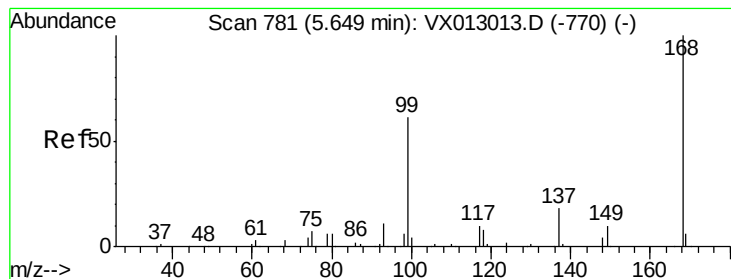
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1017WBL01

Quant Time: Oct 18 08:01:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 16 07:26:22 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Instrument :

MSVOA\_X

ClientSampleId :

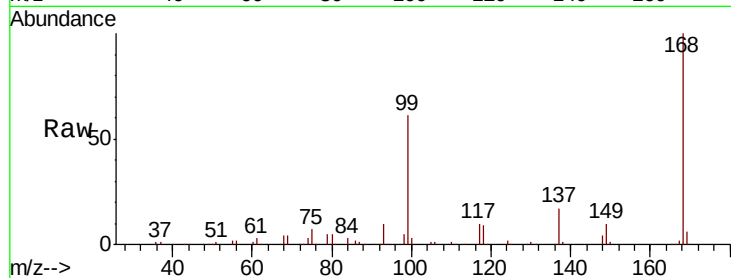
VX1017WBL01

Tot Ion:168 Resp: 166191

Ion Ratio Lower Upper

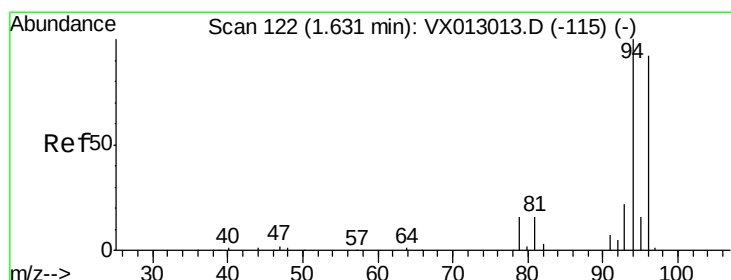
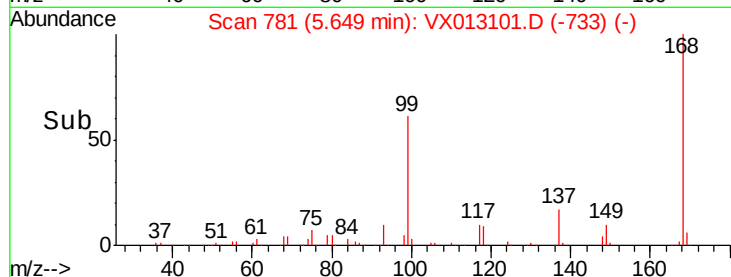
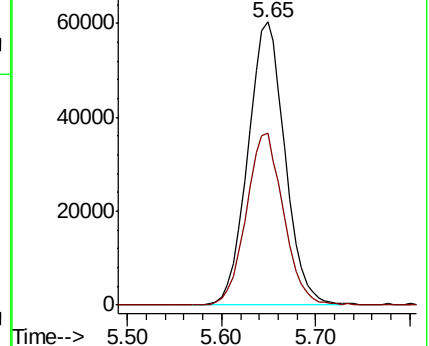
168 100

99 60.7 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.630 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013101.D

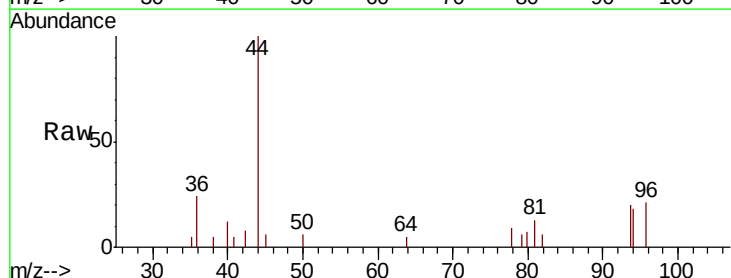
Acq: 17 Oct 2019 12:51

Tgt Ion: 94 Resp: 498

Ion Ratio Lower Upper

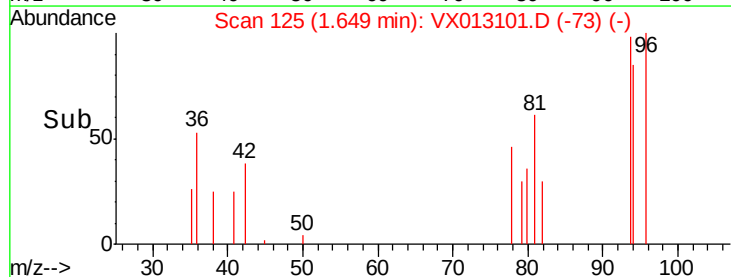
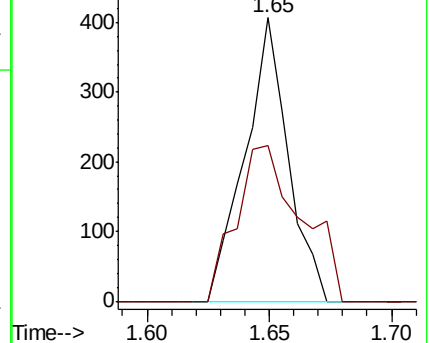
94 100

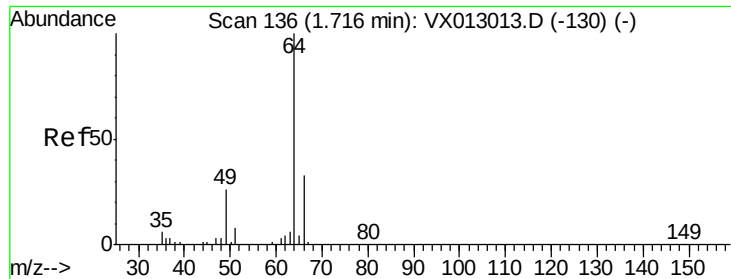
96 54.8 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.722 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Instrument :

MSVOA\_X

ClientSampleId :

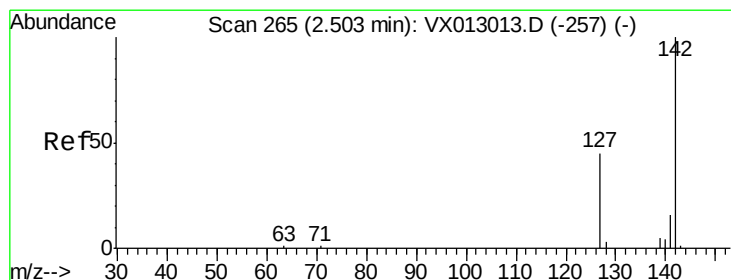
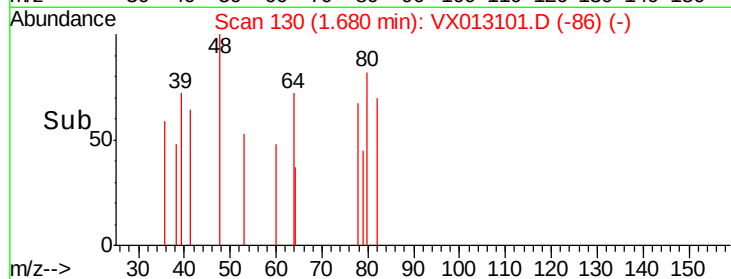
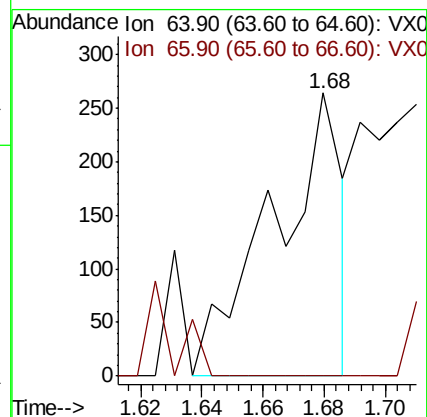
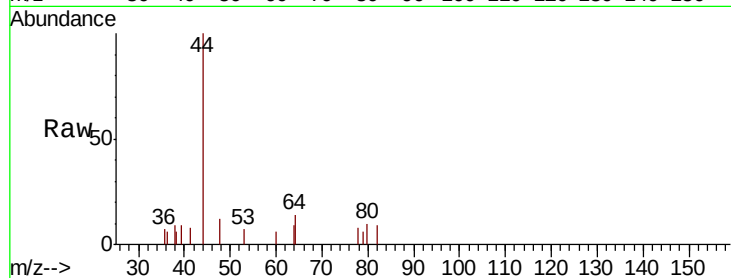
VX1017WBL01

Tot Ion: 64 Resp: 415

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.297 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

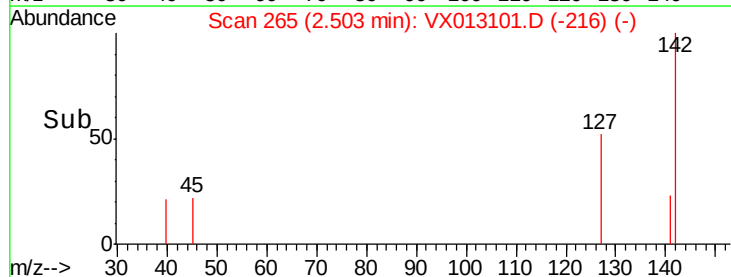
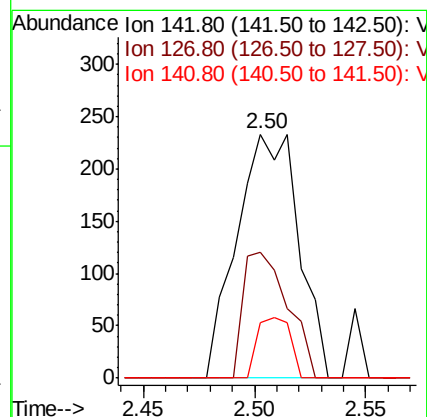
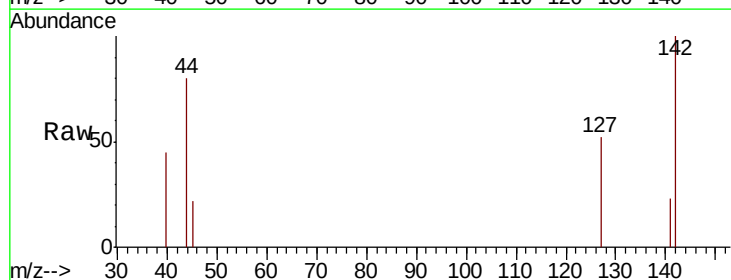
Tgt Ion: 142 Resp: 451

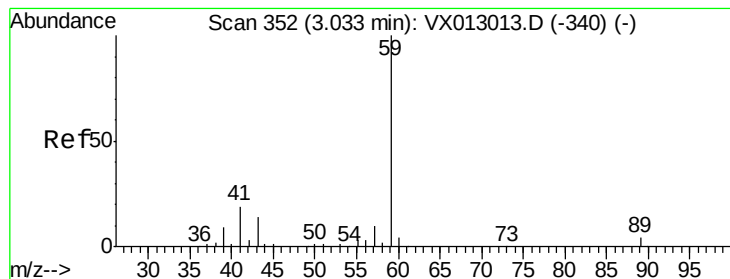
Ion Ratio Lower Upper

142 100

127 37.3 34.9 52.3

141 13.3 11.6 17.4



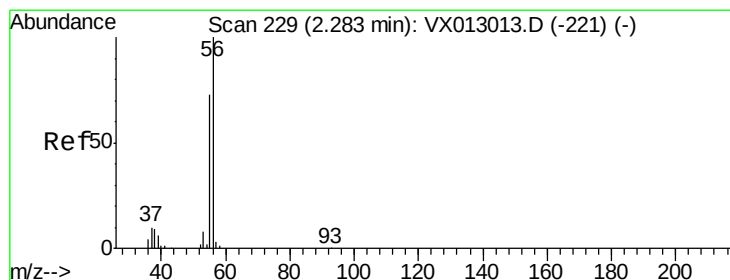
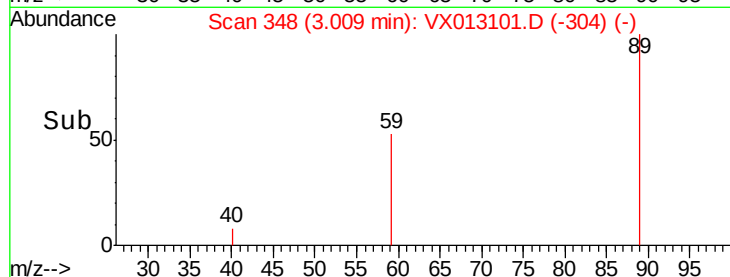
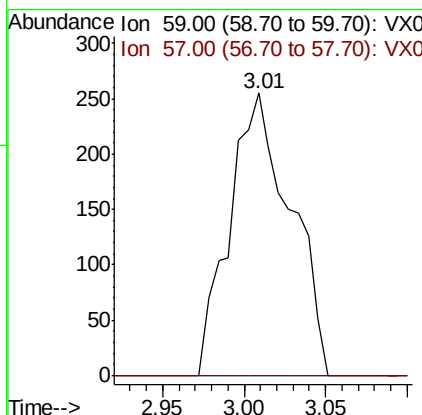
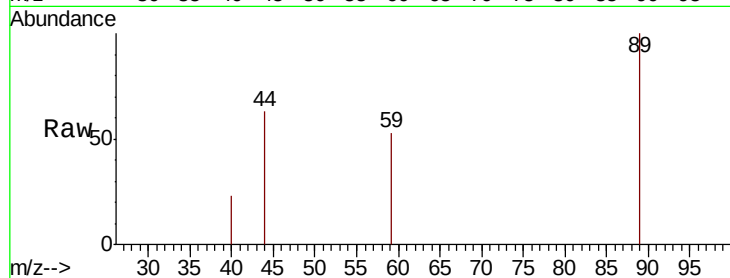


#11

Tert butyl alcohol  
 Concen: 1.208 ug/l  
 RT: 3.01 min Scan# 348  
 Delta R.T. -0.03 min  
 Lab File: VX013101.D  
 Acq: 17 Oct 2019 12:51

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1017WBL01

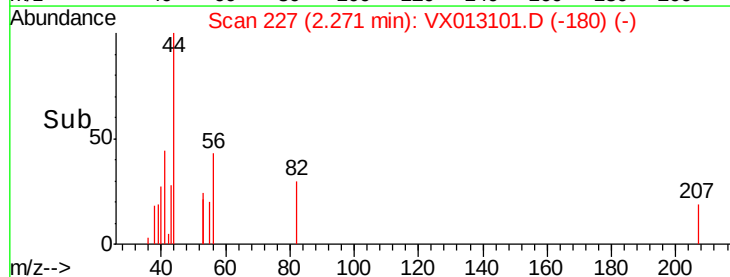
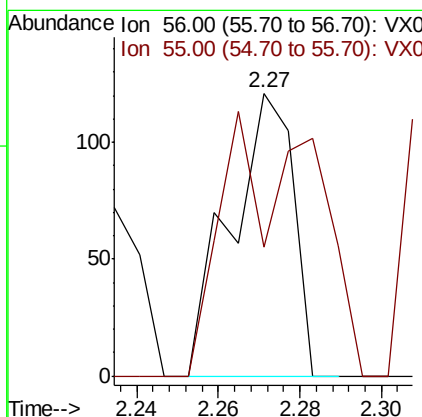
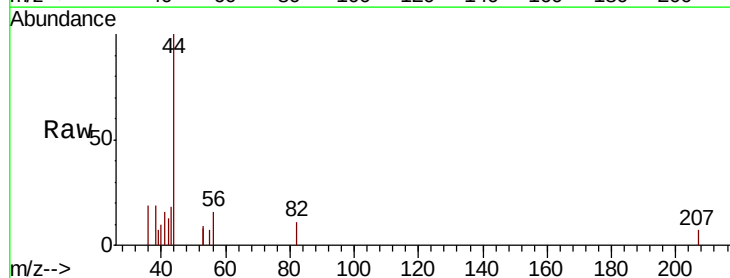
Tot Ion: 59 Resp: 665  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

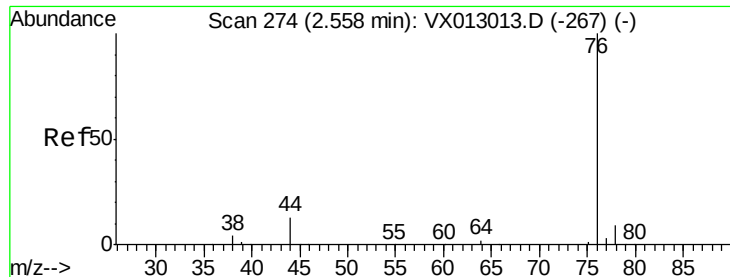


#13

Acrolein  
 Concen: 0.330 ug/l  
 RT: 2.27 min Scan# 227  
 Delta R.T. -0.01 min  
 Lab File: VX013101.D  
 Acq: 17 Oct 2019 12:51

Tgt Ion: 56 Resp: 129  
 Ion Ratio Lower Upper  
 56 100  
 55 64.3 56.6 85.0





#17

Carbon Disulfide

Concen: 0.228 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Instrument :

MSVOA\_X

ClientSampleId :

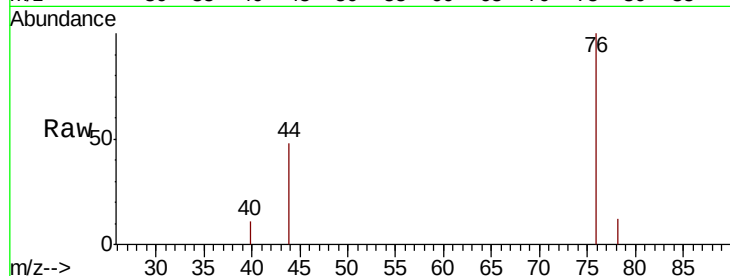
VX1017WBL01

Tot Ion: 76 Resp: 1092

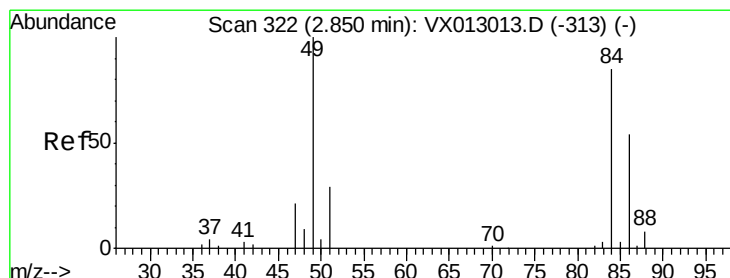
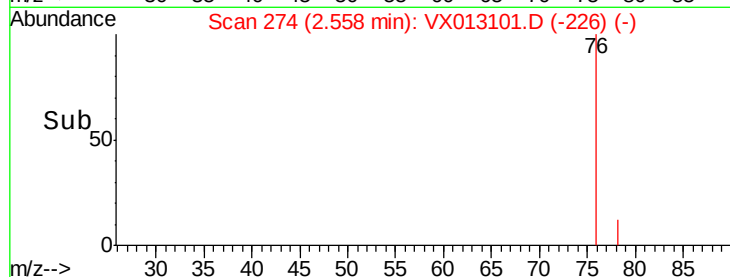
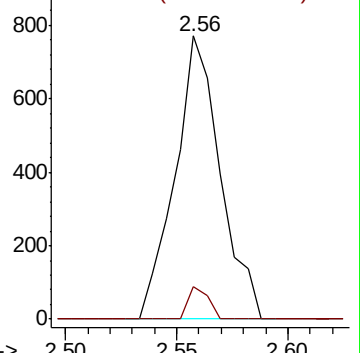
Ion Ratio Lower Upper

76 100

78 11.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0



#20

Methylene Chloride

Concen: 0.220 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Tgt Ion: 84 Resp: 443

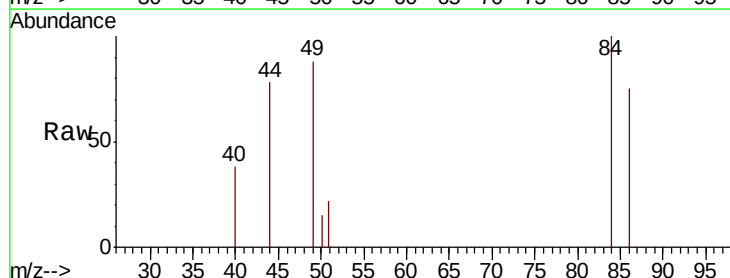
Ion Ratio Lower Upper

84 100

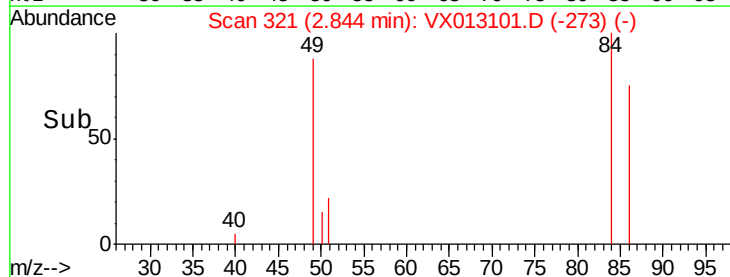
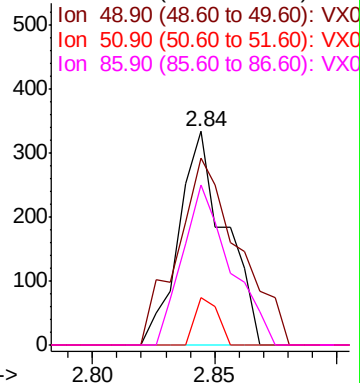
49 87.7 96.6 144.8#

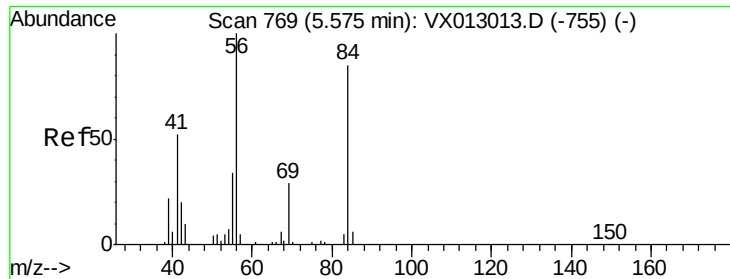
51 22.2 30.7 46.1#

86 74.9 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

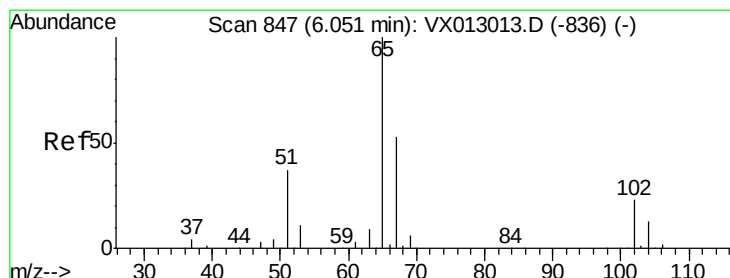
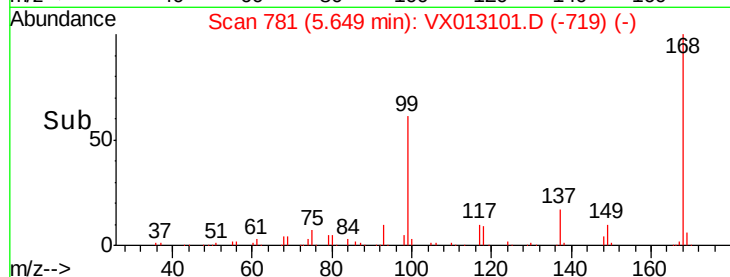
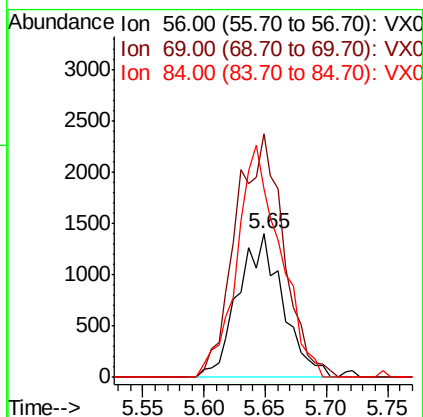
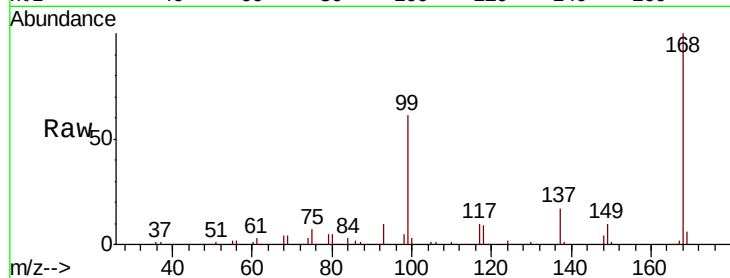




#31  
Cyclohexane  
Concen: 1.180 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. 0.08 min  
Lab File: VX013101.D  
Acq: 17 Oct 2019 12:51

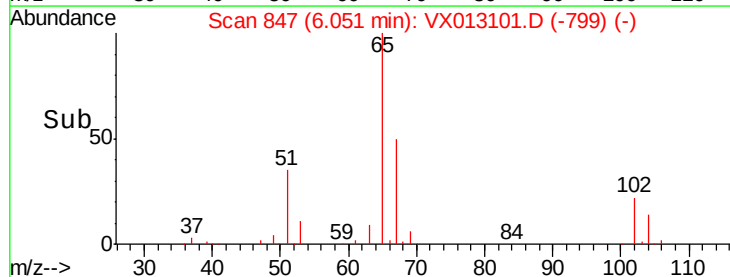
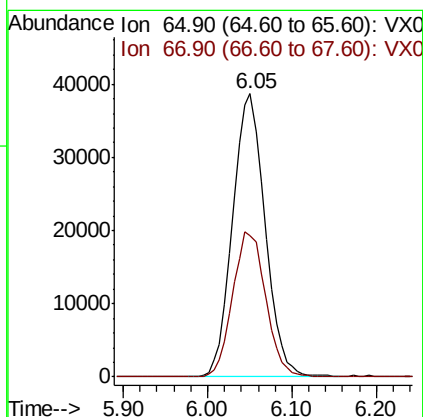
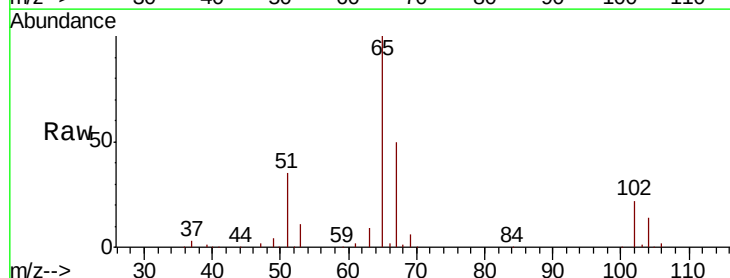
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1017WBL01

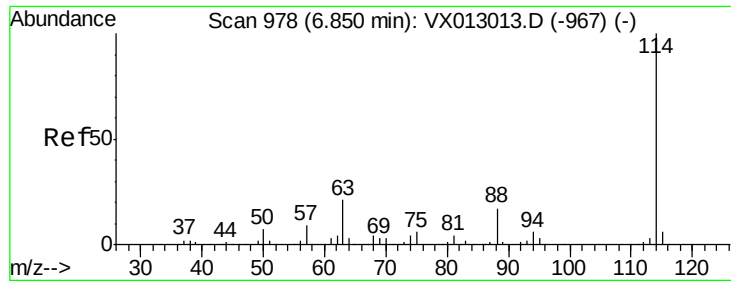
Tot Ion: 56 Resp: 3557  
Ion Ratio Lower Upper  
56 100  
69 169.7 25.2 37.8#  
84 131.8 71.3 106.9#



#33  
1,2-Dichloroethane-d4  
Concen: 48.469 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.01 min  
Lab File: VX013101.D  
Acq: 17 Oct 2019 12:51

Tgt Ion: 65 Resp: 100678  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 104.4

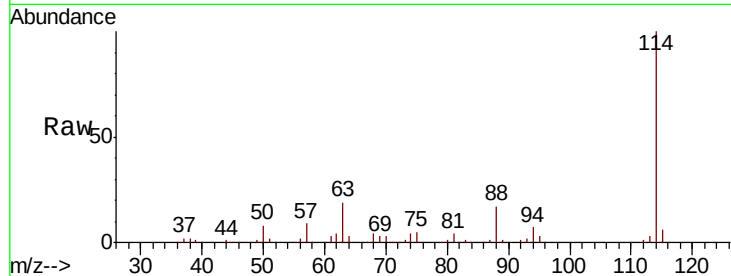




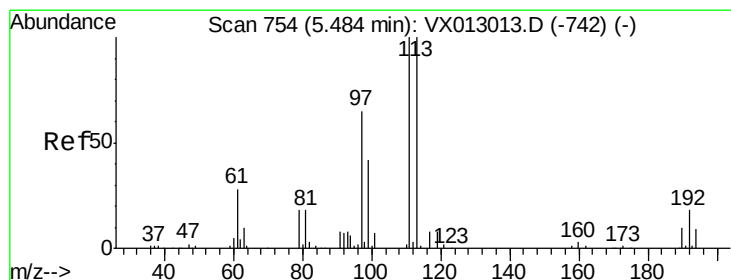
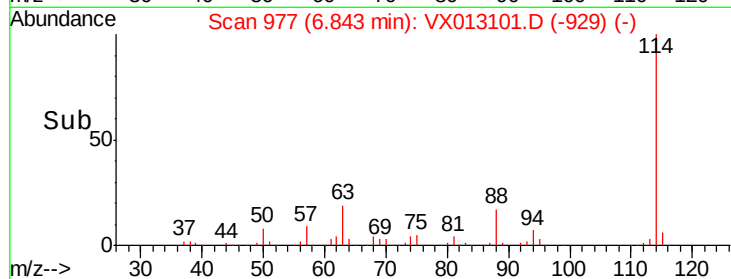
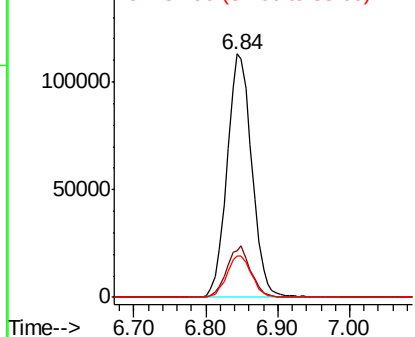
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 977  
 Delta R.T. -0.01 min  
 Lab File: VX013101.D  
 Acq: 17 Oct 2019 12:51

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1017WBL01

Tot Ion:114 Resp: 270820  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 40.8  
 88 17.0 0.0 33.8

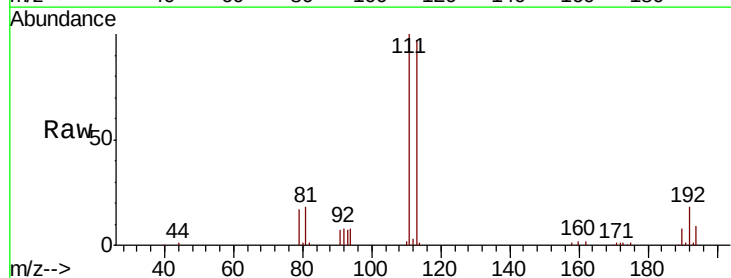


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

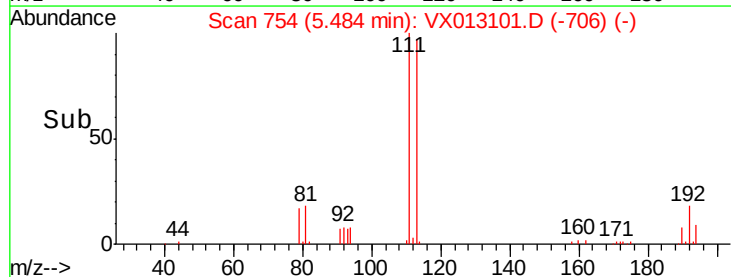
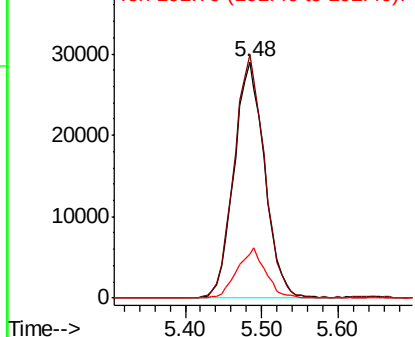


#35  
 Dibromofluoromethane  
 Concen: 51.748 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. -0.01 min  
 Lab File: VX013101.D  
 Acq: 17 Oct 2019 12:51

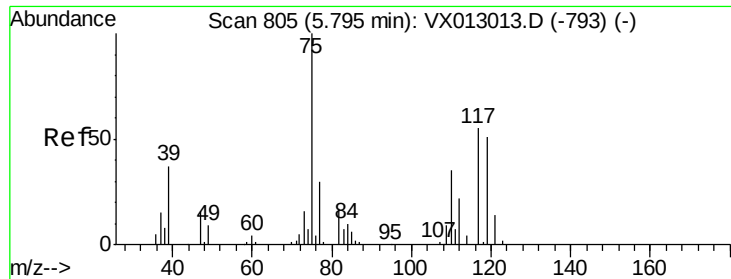
Tgt Ion:113 Resp: 80435  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 83.2 124.8  
 192 19.6 15.4 23.2



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



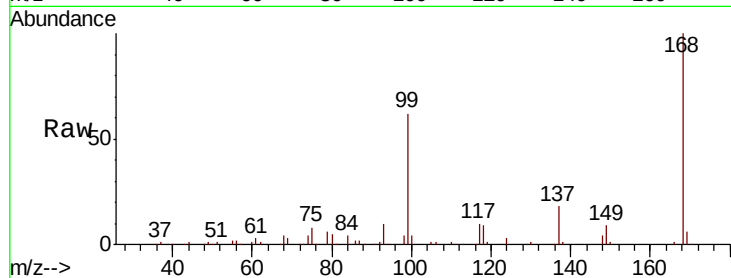




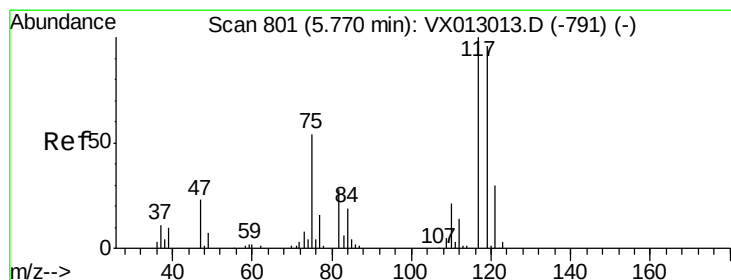
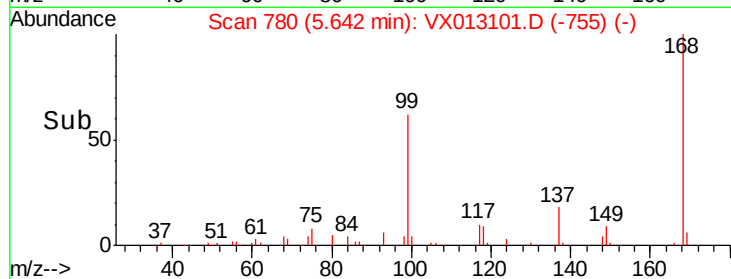
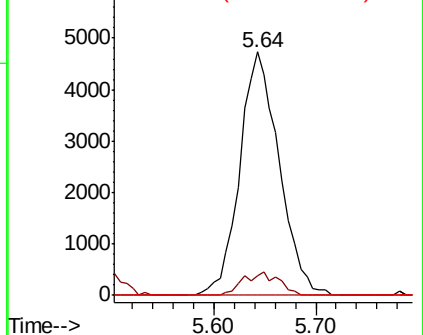
#36  
 1,1-Dichloropropene  
 Concen: 5.317 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.15 min  
 Lab File: VX013101.D  
 Acq: 17 Oct 2019 12:51

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1017WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.7   | 17.6  | 52.9# |
| 77      | 0.0   | 24.4  | 36.6# |

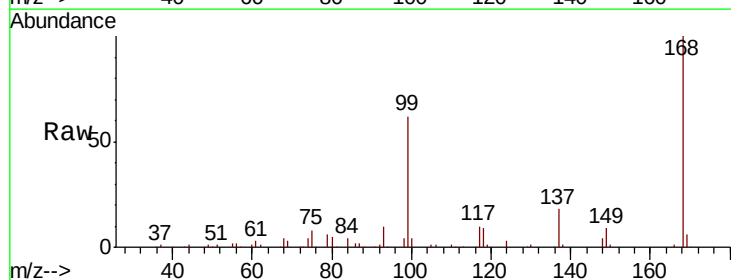


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

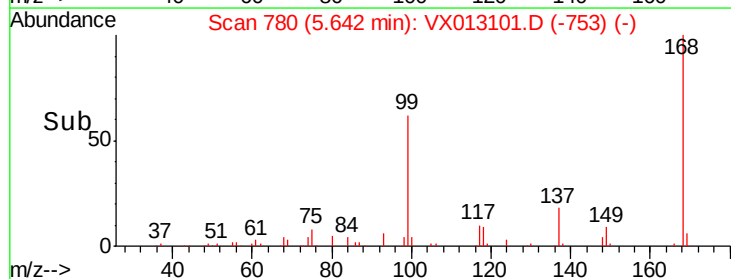
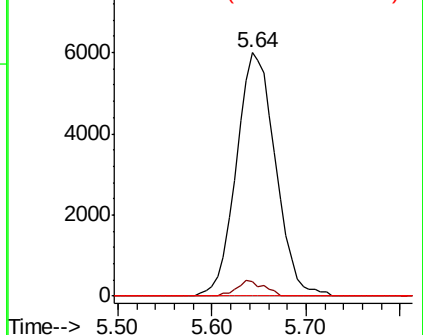


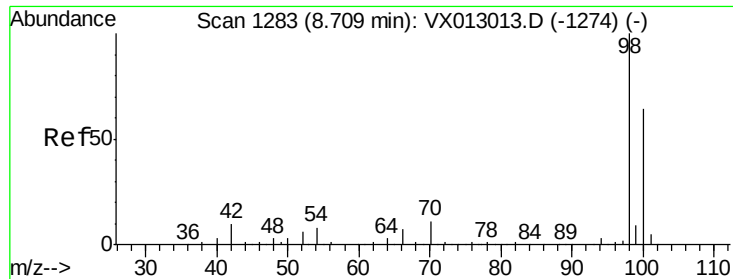
#38  
 Carbon Tetrachloride  
 Concen: 7.506 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.13 min  
 Lab File: VX013101.D  
 Acq: 17 Oct 2019 12:51

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.9   | 74.5  | 111.7# |
| 121     | 0.0   | 24.2  | 36.4#  |



Abundance Ion 116.80 (116.50 to 117.50): V  
 Ion 118.80 (118.50 to 119.50): V  
 Ion 120.80 (120.50 to 121.50): V

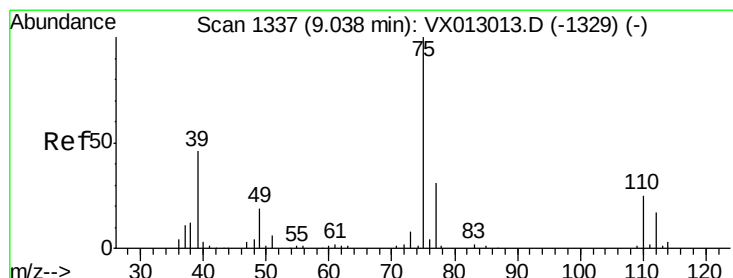
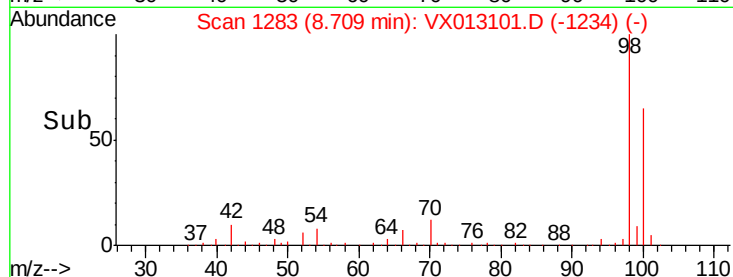
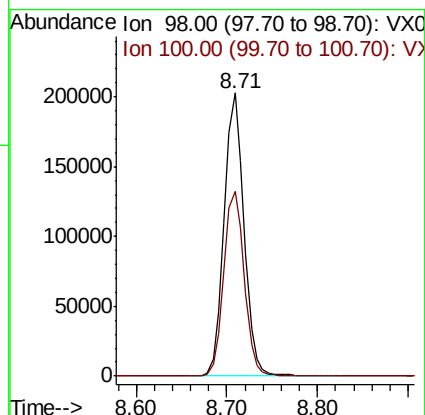
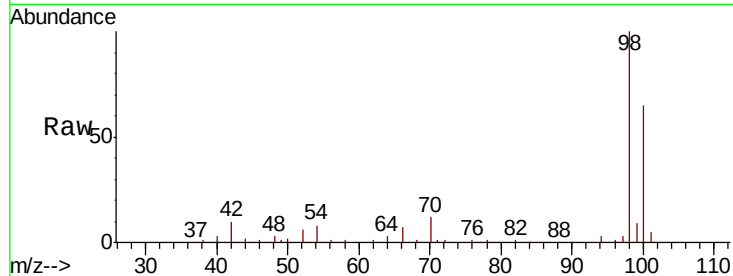




#50  
Toluene-d8  
Concen: 51.193 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX013101.D  
Acq: 17 Oct 2019 12:51

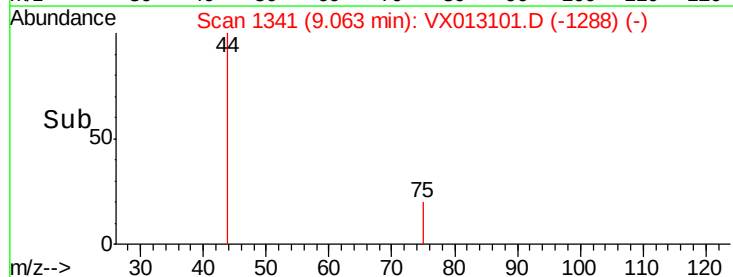
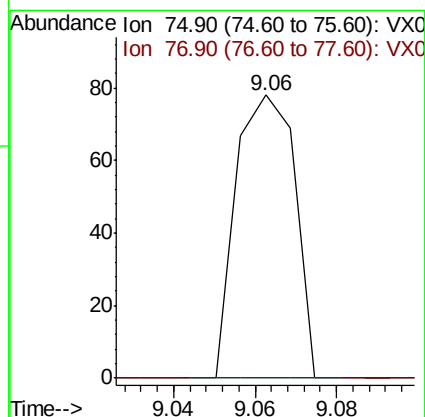
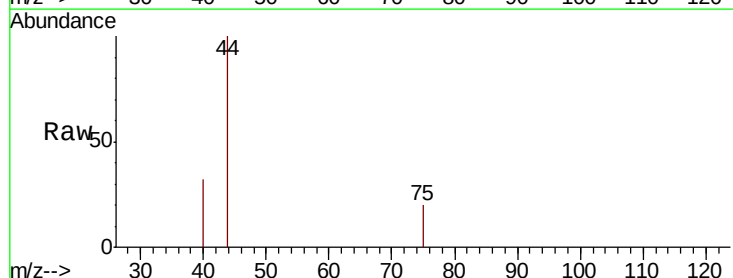
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1017WBL01

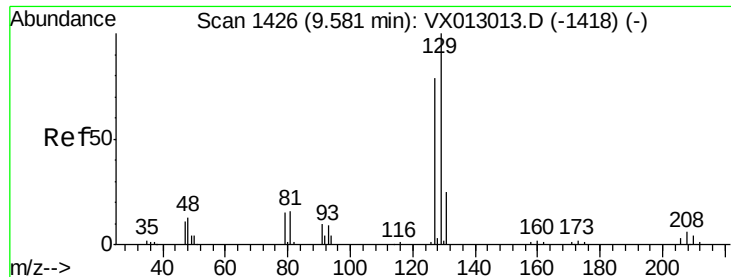
Tot Ion: 98 Resp: 310354  
Ion Ratio Lower Upper  
98 100  
100 67.5 53.4 80.2



#53  
t-1,3-Dichloropropene  
Concen: 2.194 ug/l  
RT: 9.06 min Scan# 1341  
Delta R.T. 0.02 min  
Lab File: VX013101.D  
Acq: 17 Oct 2019 12:51

Tgt Ion: 75 Resp: 78  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.8 38.6#





#60

Dibromochloromethane

Concen: 1.882 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. -0.24 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Instrument :

MSVOA\_X

ClientSampleId :

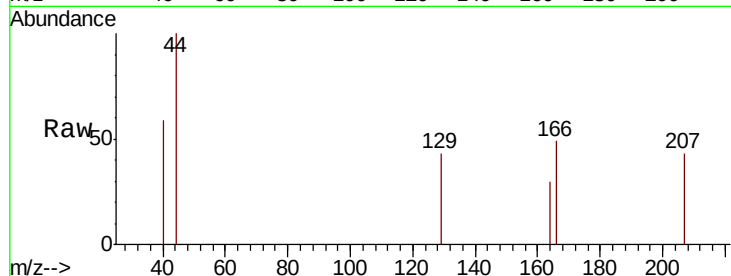
VX1017WBL01

Tot Ion:129 Resp: 52

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#

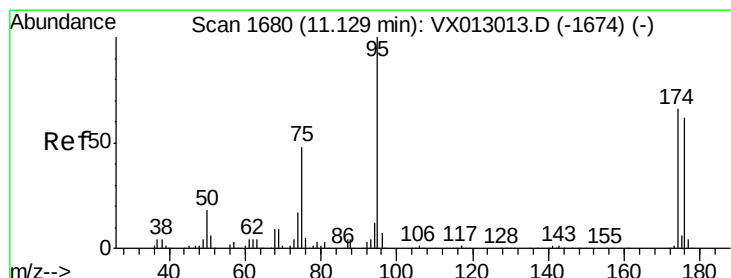
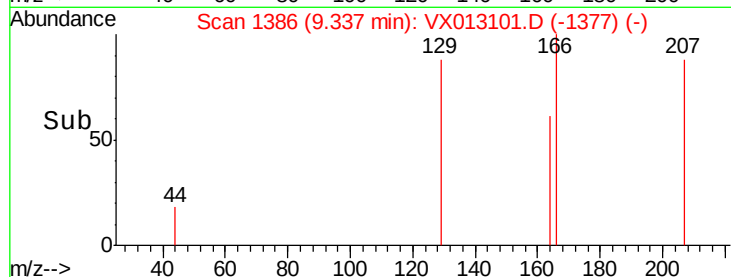


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

Time-->



#62

4-Bromofluorobenzene

Concen: 45.307 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

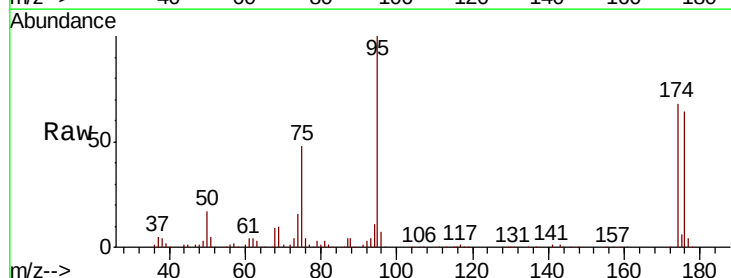
Tgt Ion: 95 Resp: 106725

Ion Ratio Lower Upper

95 100

174 75.1 0.0 143.4

176 72.7 0.0 136.0



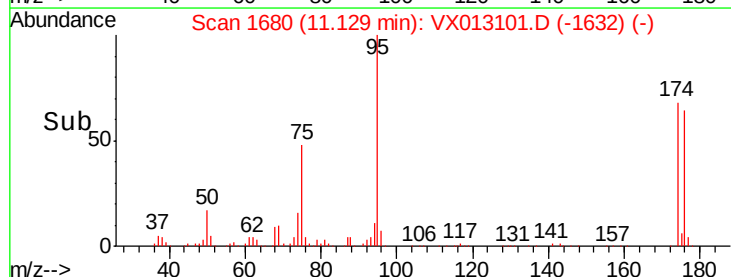
Abundance Ion 94.90 (94.60 to 95.60): VX0

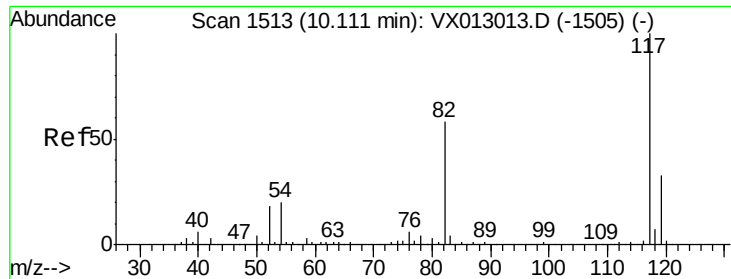
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

Time-->

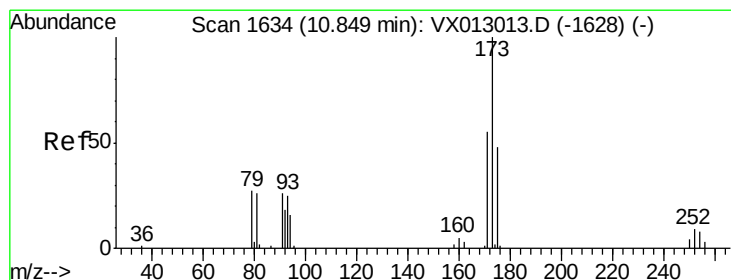
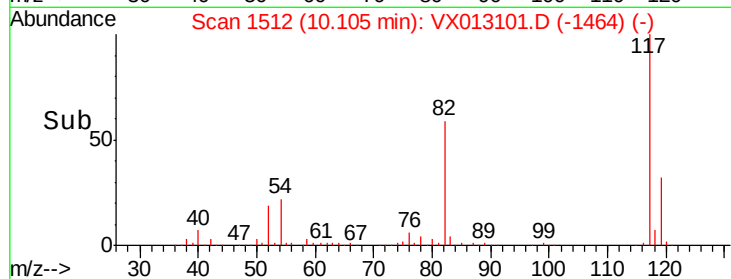
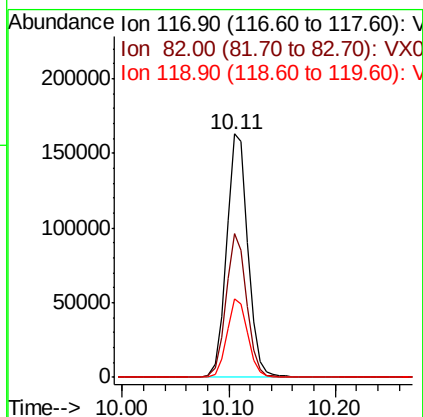
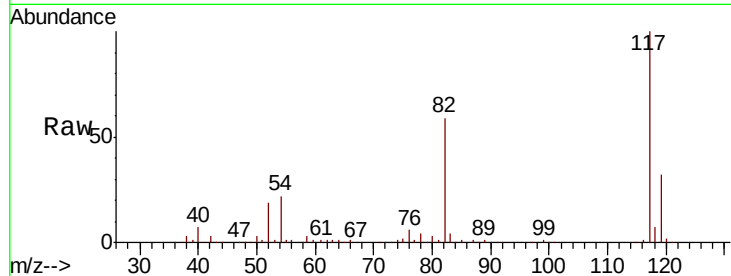




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VX013101.D  
Acq: 17 Oct 2019 12:51

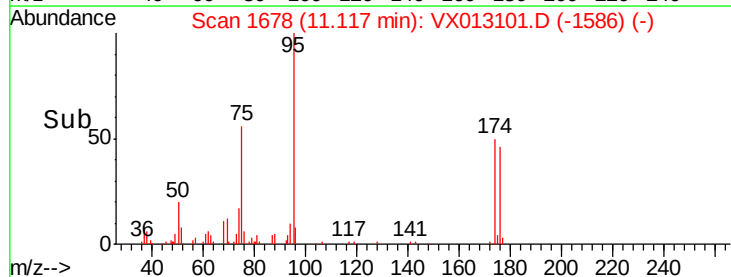
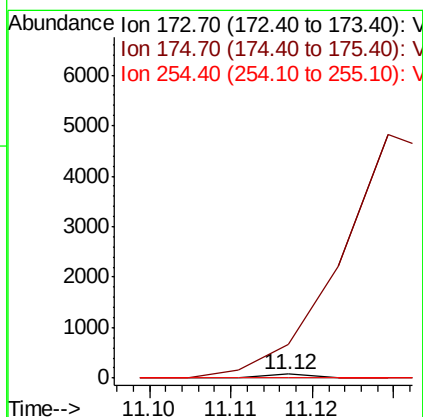
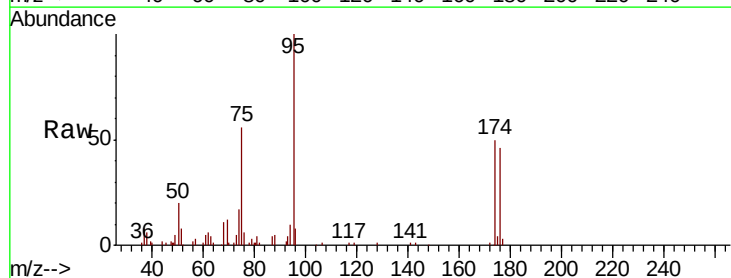
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1017WBL01

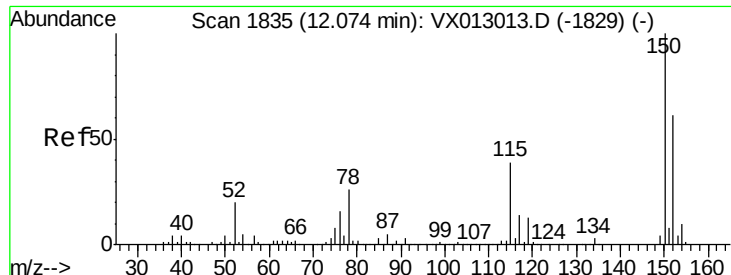
Tot Ion:117 Resp: 227905  
Ion Ratio Lower Upper  
117 100  
82 59.3 44.1 66.1  
119 32.0 25.8 38.8



#71  
Bromoform  
Concen: 3.152 ug/l  
RT: 11.12 min Scan# 1678  
Delta R.T. 0.26 min  
Lab File: VX013101.D  
Acq: 17 Oct 2019 12:51

Tgt Ion:173 Resp: 28  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.1 72.3#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Instrument :

MSVOA\_X

ClientSampleId :

VX1017WBL01

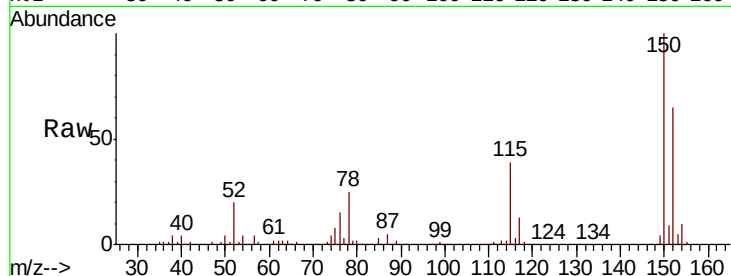
Tot Ion:152 Resp: 92506

Ion Ratio Lower Upper

152 100

115 60.6 44.5 133.5

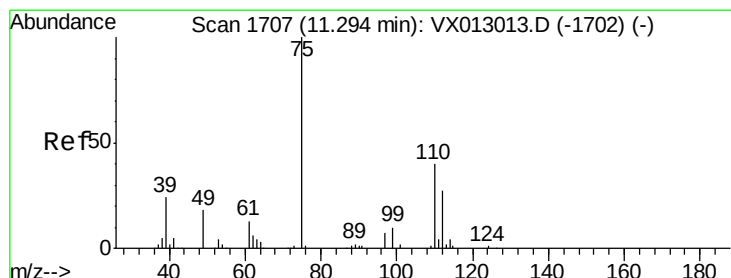
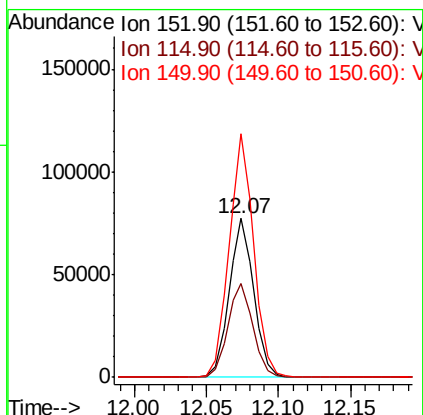
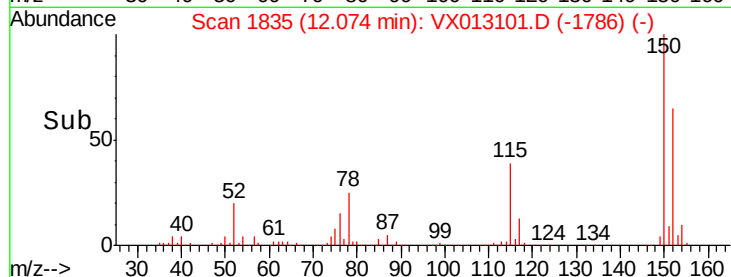
150 153.3 0.0 353.4



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: 25.605 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013101.D

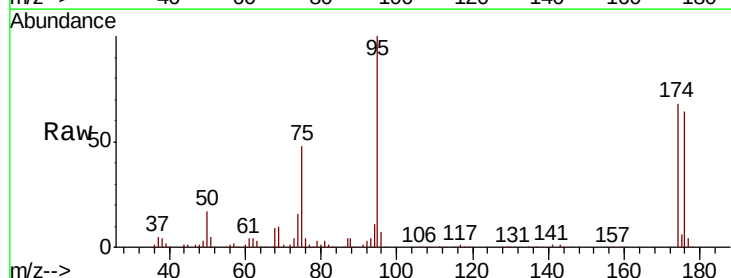
Acq: 17 Oct 2019 12:51

Tgt Ion: 75 Resp: 52535

Ion Ratio Lower Upper

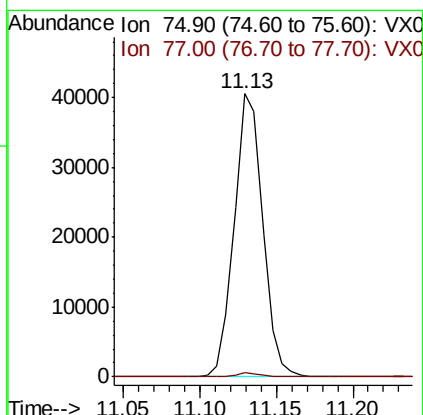
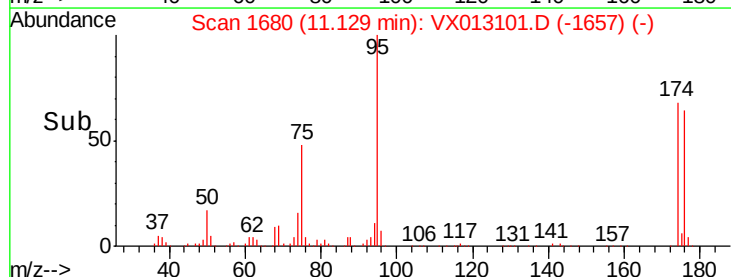
75 100

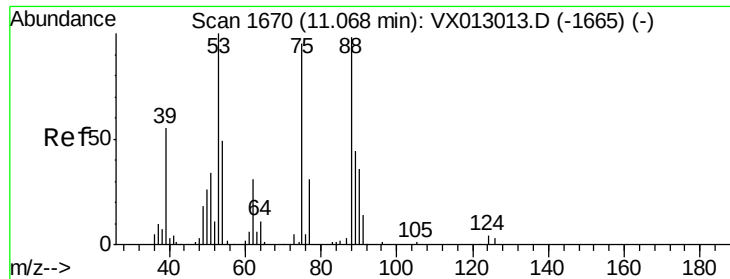
77 1.2 22.9 68.8#



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: 64.548 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013101.D

Acq: 17 Oct 2019 12:51

Instrument :

MSVOA\_X

ClientSampleId :

VX1017WBL01

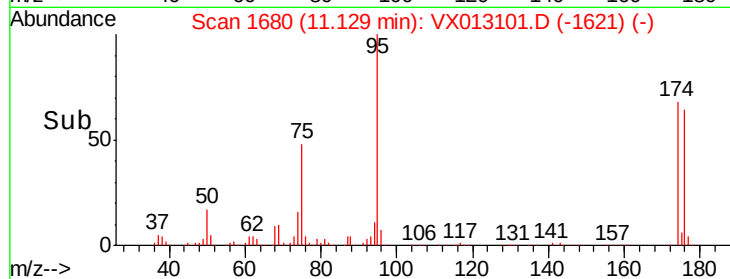
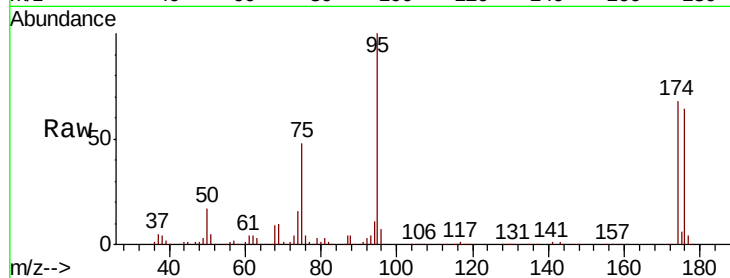
Tot Ion: 75 Resp: 52535

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.2 37.4 56.2#



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

