

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052319\  
 Data File : VX009854.D  
 Acq On : 23 May 2019 13:34  
 Operator : JC/SP  
 Sample : K2999-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-190521

Quant Time: May 24 03:49:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 177682   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 286664   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 249206   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 103443   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 120784   | 49.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.60% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 86978    | 48.27 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.54% |          |
| 50) Toluene-d8              | 8.71  | 98   | 360372   | 49.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.06% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 118581   | 44.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.72% |          |

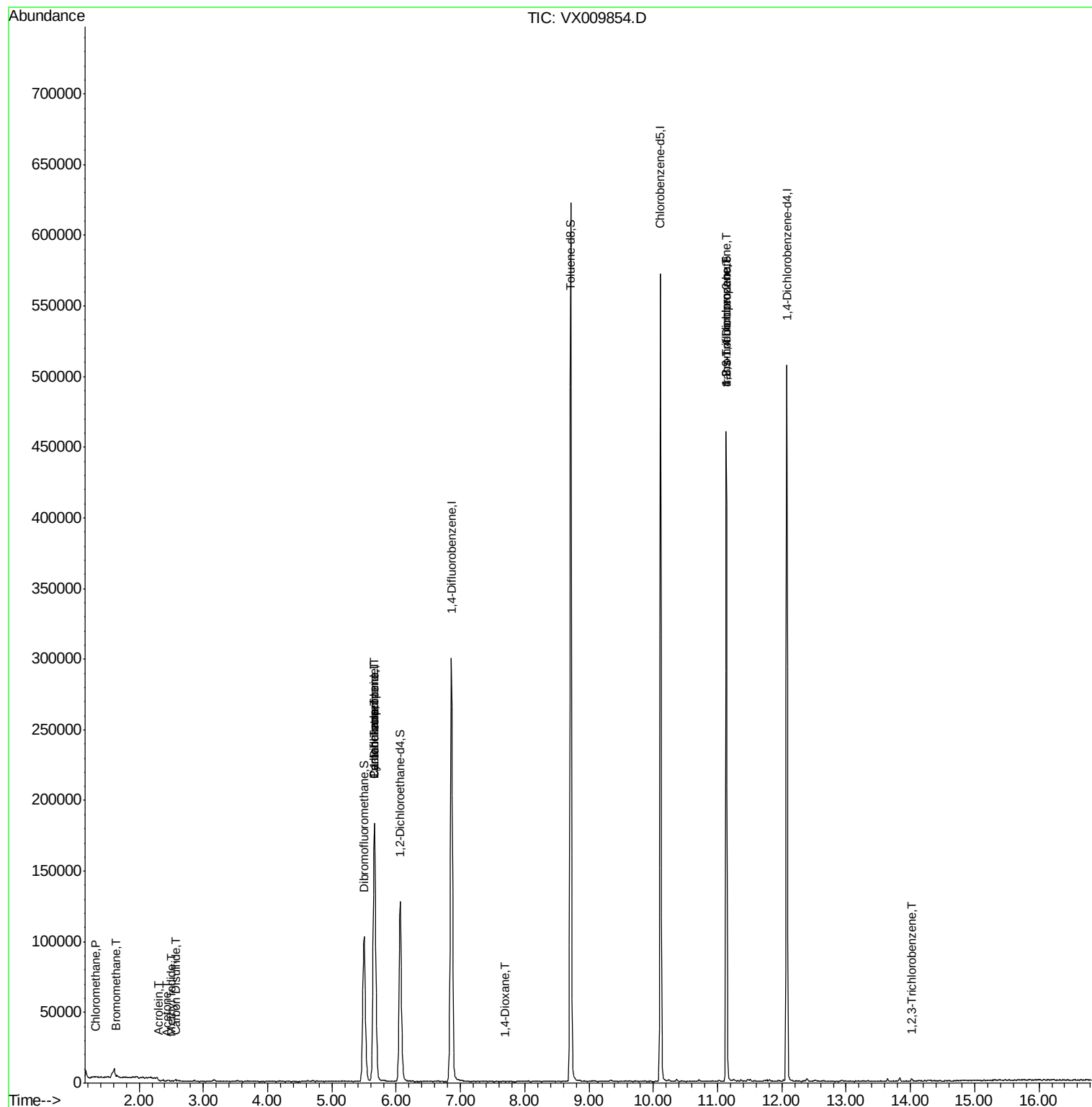
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 664      | 0.297     | ug/l # | 32     |
| 5) Bromomethane                | 1.65  | 94   | 426      | 0.326     | ug/l   | 100    |
| 10) Methyl Iodide              | 2.51  | 142  | 594      | 4.873     | ug/l # | 90     |
| 13) Acrolein                   | 2.31  | 56   | 373      | 0.734     | ug/l # | 68     |
| 16) Acetone                    | 2.43  | 43   | 430      | 0.330     | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1404     | 0.300     | ug/l # | 89     |
| 28) Bromochloromethane         | 5.03  | 49   | 198      | Below Cal | #      | 20     |
| 31) Cyclohexane                | 5.67  | 56   | 4287     | 1.195     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14244    | 5.347     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 16698    | 6.899     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 19       | 0.318     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 61162    | 25.489    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 61162    | 65.218    | ug/l # | 10     |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 471      | 0.200     | ug/l   | 95     |

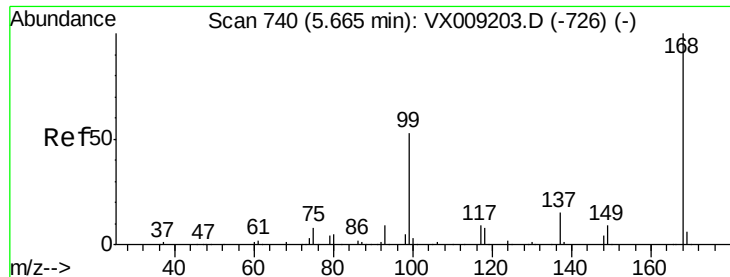
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052319\  
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Sample : K2999-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-190521

Quant Time: May 24 03:49:53 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA\_X

ClientSampleId :

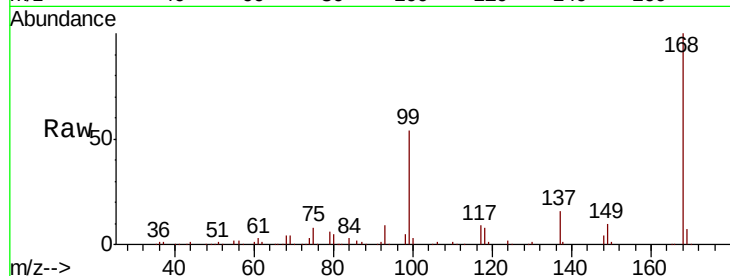
TB-01-190521

Tot Ion:168 Resp: 177682

Ion Ratio Lower Upper

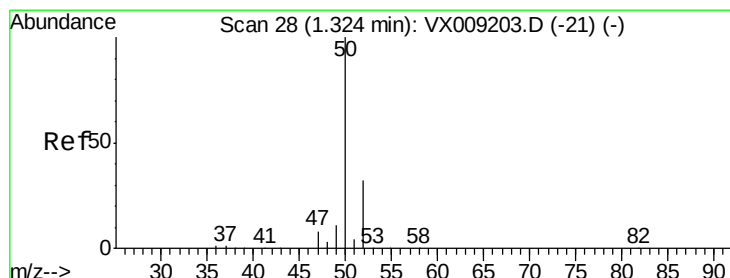
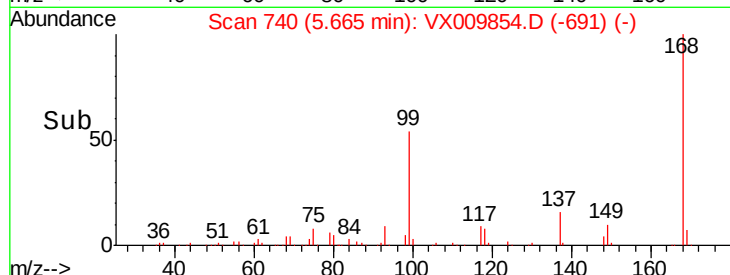
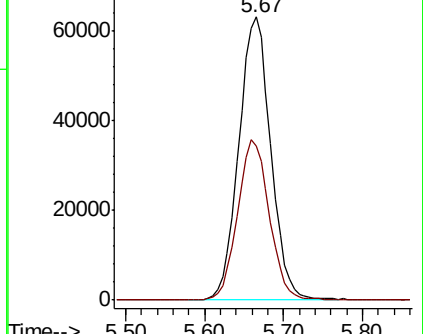
168 100

99 54.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.297 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009854.D

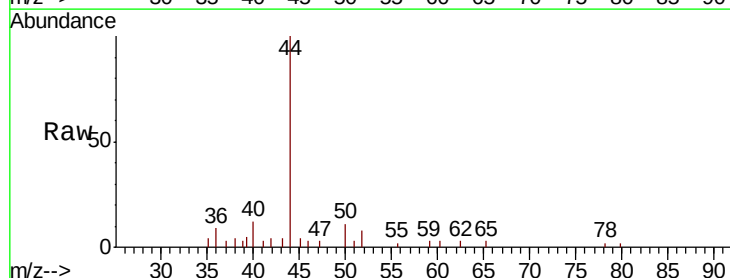
Acq: 23 May 2019 13:34

Tgt Ion: 50 Resp: 664

Ion Ratio Lower Upper

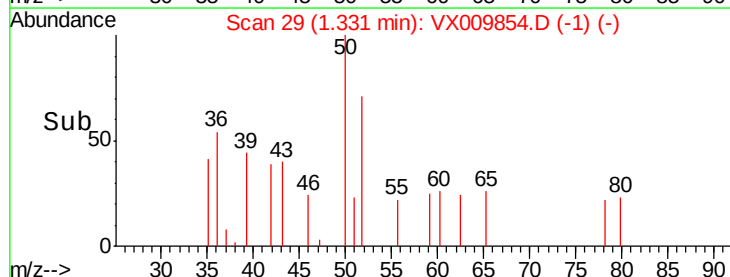
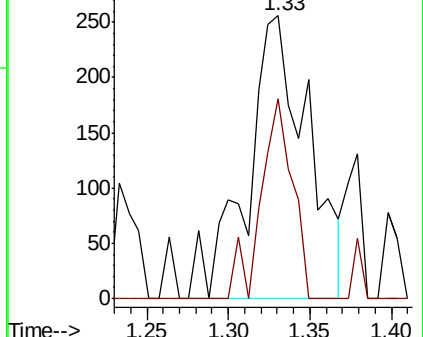
50 100

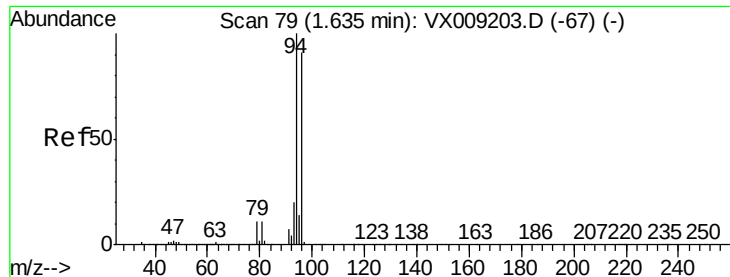
52 70.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.326 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA\_X

ClientSampled :

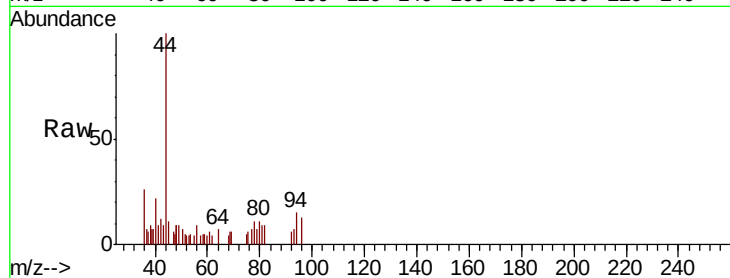
TB-01-190521

Tot Ion: 94 Resp: 426

Ion Ratio Lower Upper

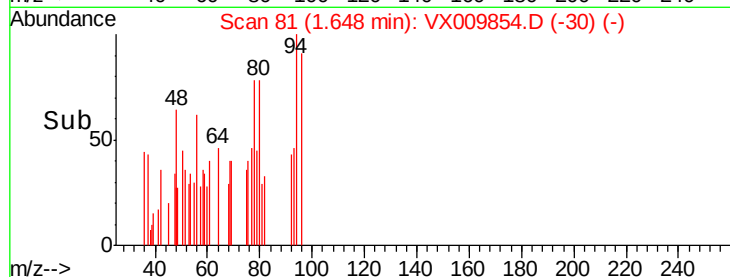
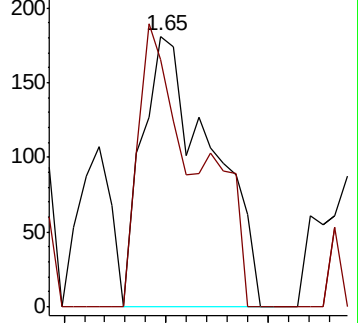
94 100

96 91.2 73.0 109.6

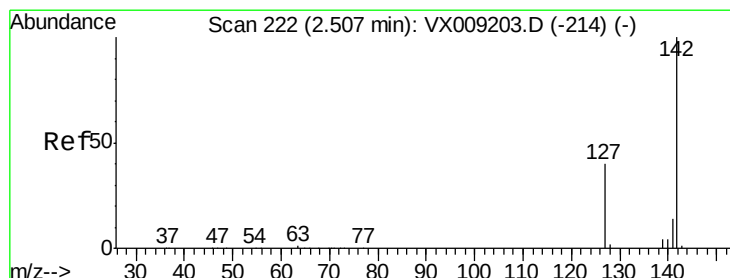


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.873 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

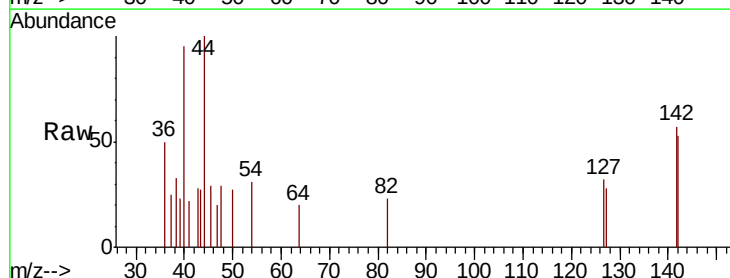
Tgt Ion: 142 Resp: 594

Ion Ratio Lower Upper

142 100

127 41.2 32.7 49.1

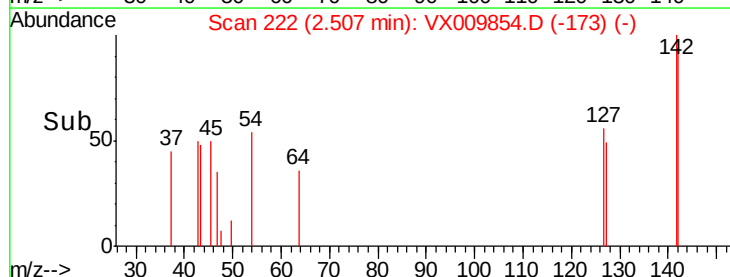
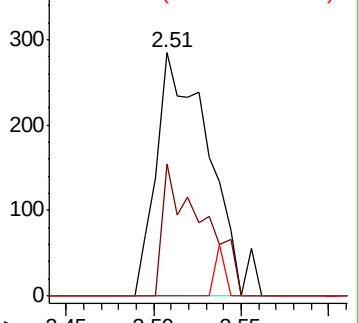
141 0.0 11.5 17.3#



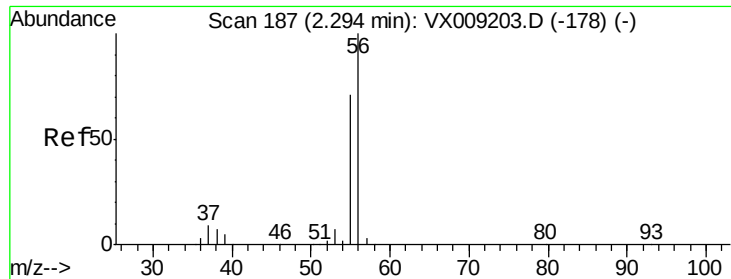
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#13

Acrolein

Concen: 0.734 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA\_X

ClientSampleId :

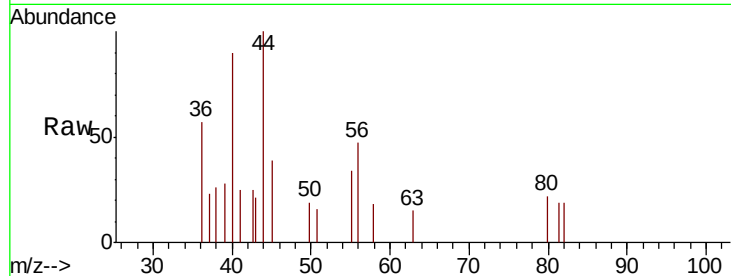
TB-01-190521

Tot Ion: 56 Resp: 373

Ion Ratio Lower Upper

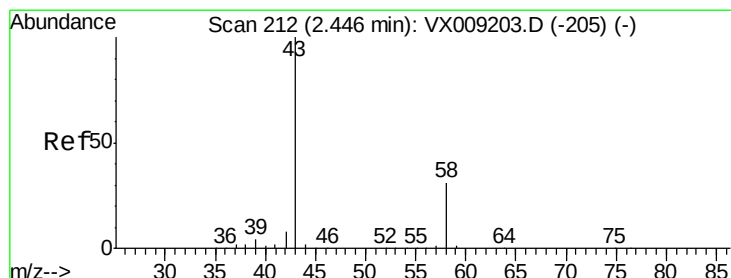
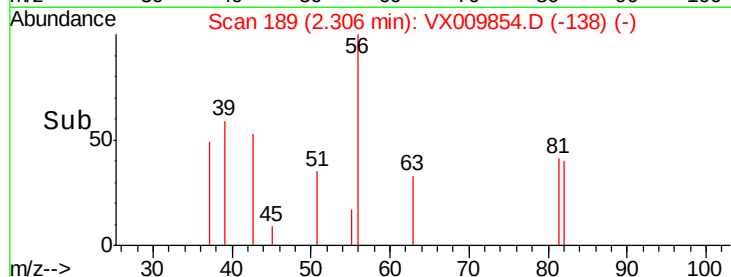
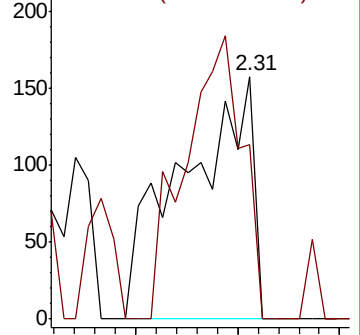
56 100

55 97.3 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.330 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX009854.D

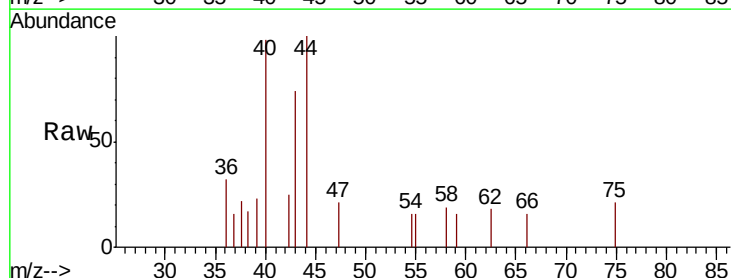
Acq: 23 May 2019 13:34

Tgt Ion: 43 Resp: 430

Ion Ratio Lower Upper

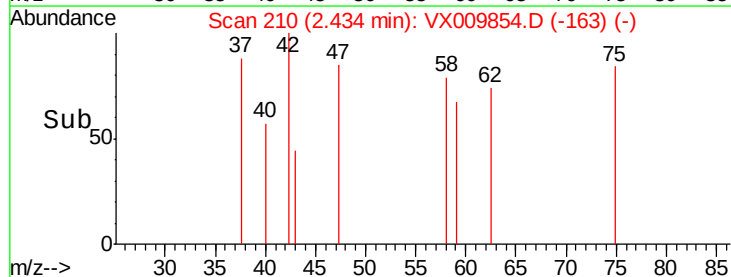
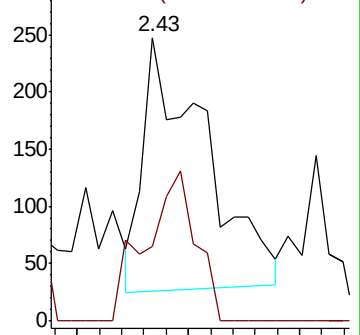
43 100

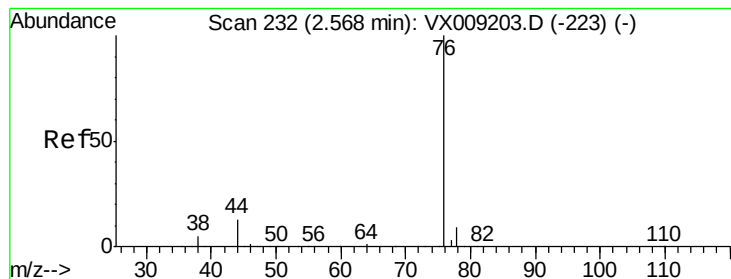
58 33.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA\_X

ClientSampleId :

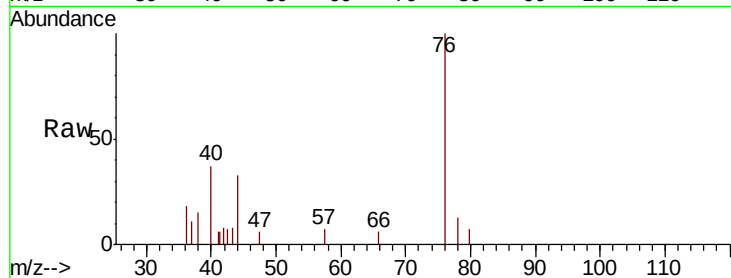
TB-01-190521

Tot Ion: 76 Resp: 1404

Ion Ratio Lower Upper

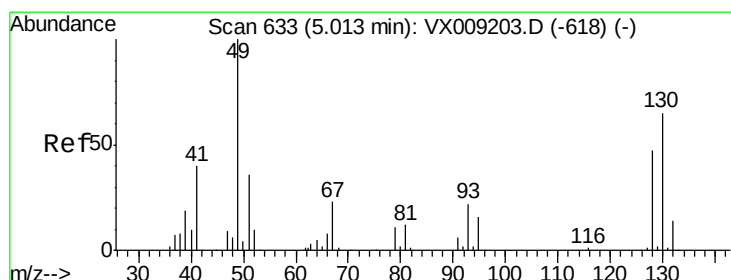
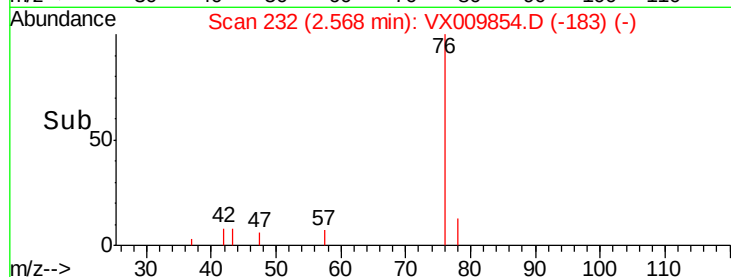
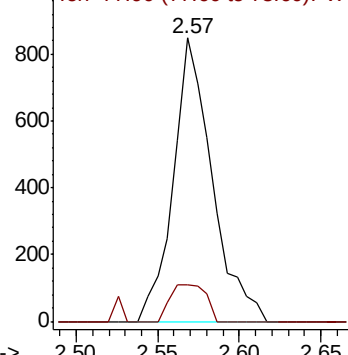
76 100

78 13.1 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

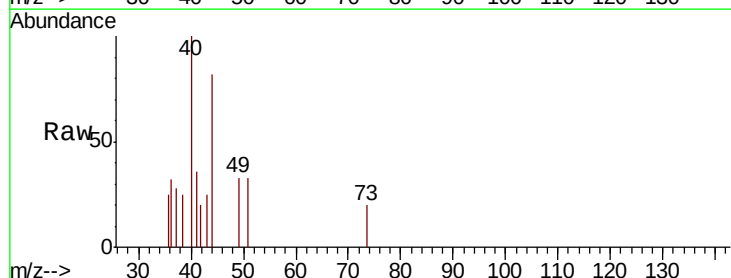
Tgt Ion: 49 Resp: 198

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

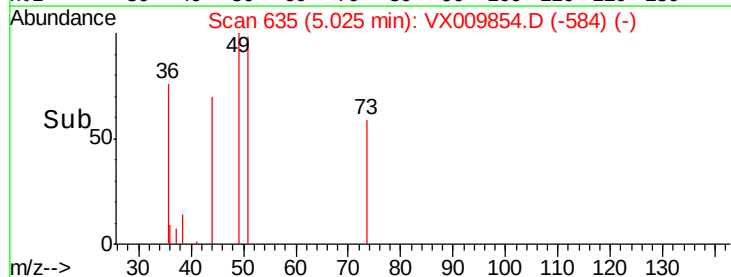
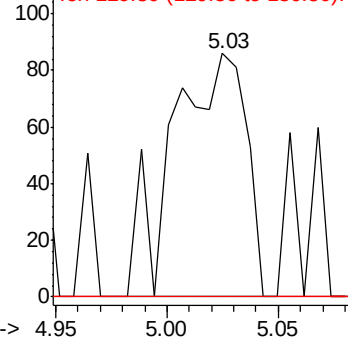
130 0.0 51.2 76.8#

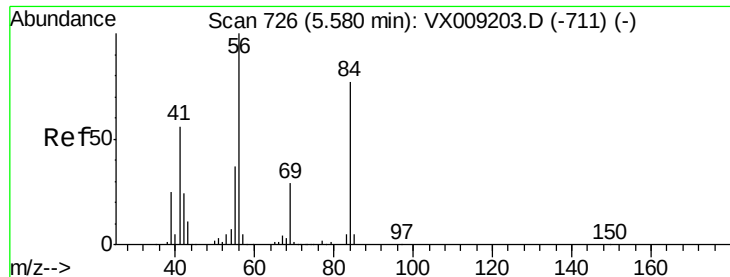


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

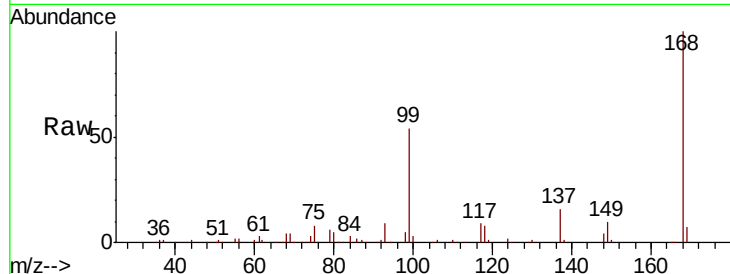




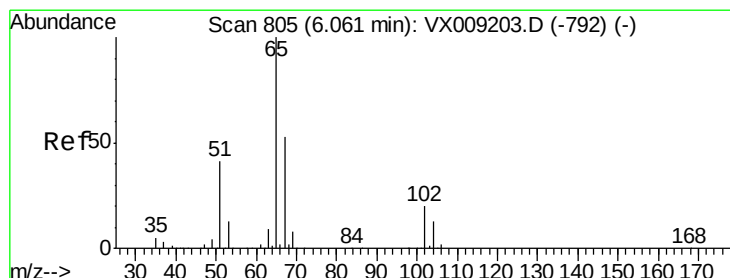
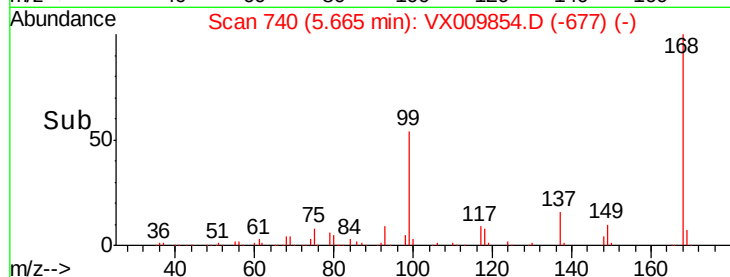
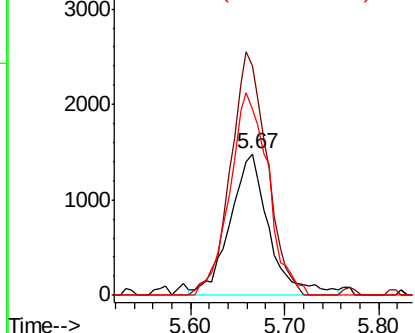
#31  
Cyclohexane  
Concen: 1.195 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX009854.D  
Acq: 23 May 2019 13:34

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-190521

Tot Ion: 56 Resp: 4287  
Ion Ratio Lower Upper  
56 100  
69 168.3 23.4 35.0#  
84 136.4 61.9 92.9#

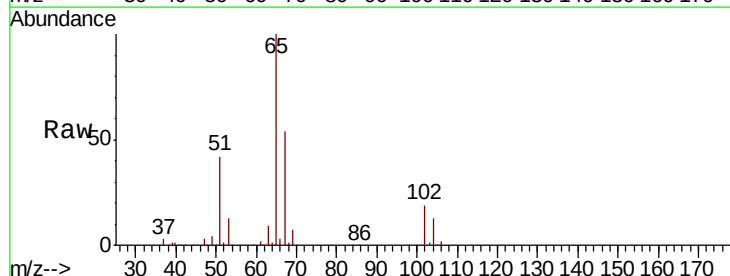


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

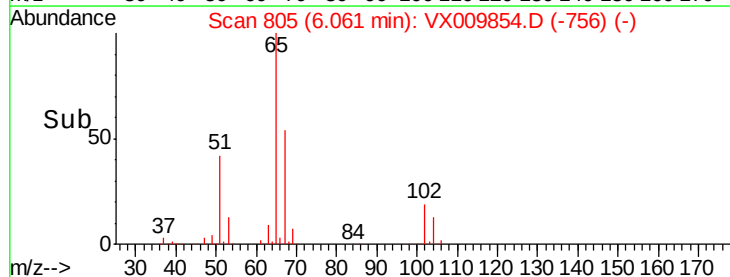
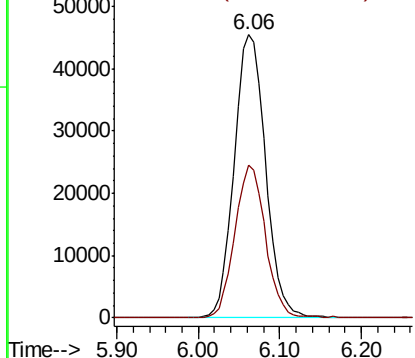


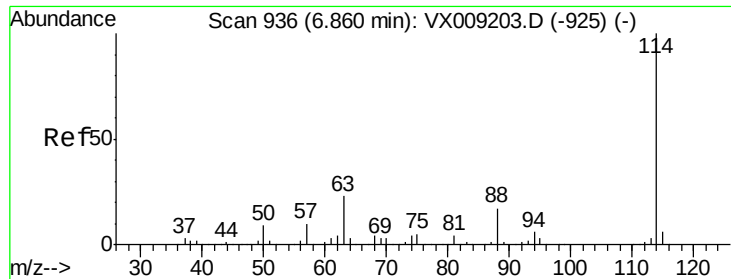
#33  
1,2-Dichloroethane-d4  
Concen: 49.796 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX009854.D  
Acq: 23 May 2019 13:34

Tgt Ion: 65 Resp: 120784  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

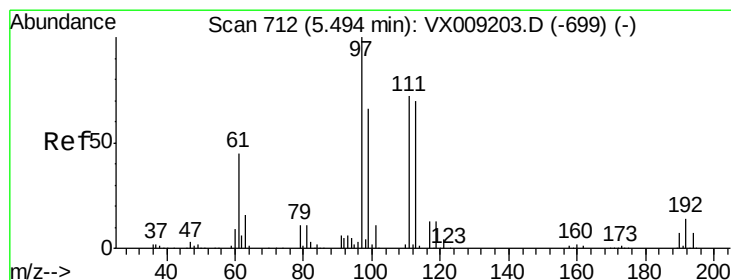
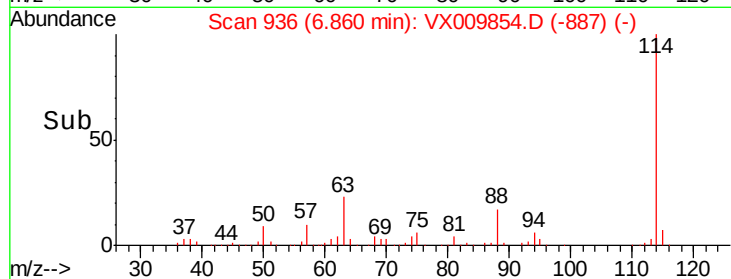
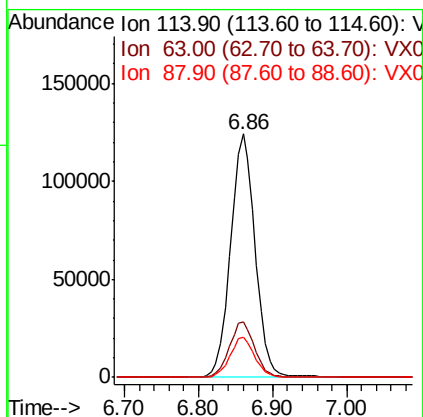
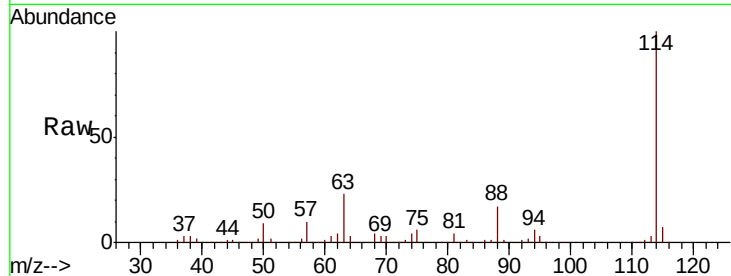




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009854.D  
 Acq: 23 May 2019 13:34

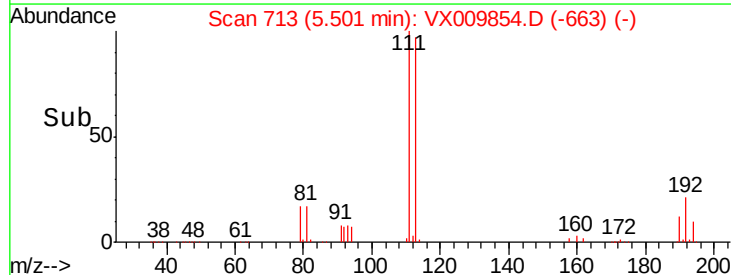
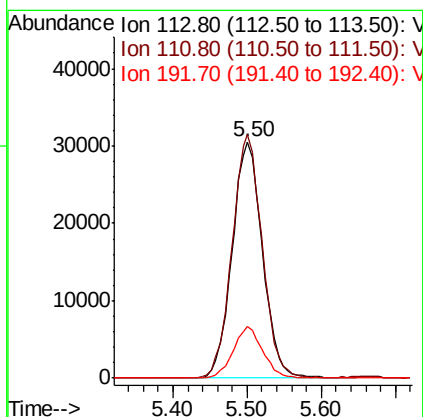
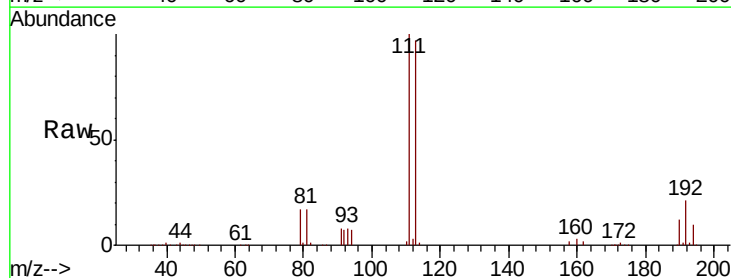
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-190521

Tot Ion:114 Resp: 286664  
 Ion Ratio Lower Upper  
 114 100  
 63 22.7 0.0 45.6  
 88 16.6 0.0 33.2

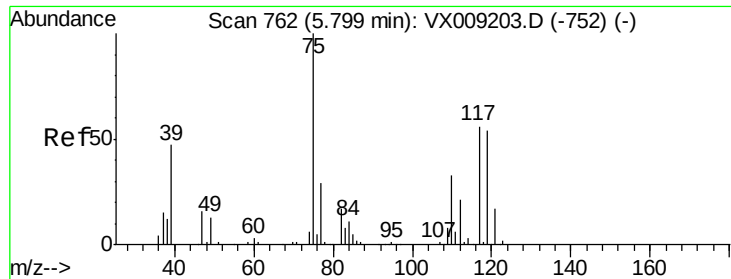


#35  
 Dibromofluoromethane  
 Concen: 48.265 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009854.D  
 Acq: 23 May 2019 13:34

Tgt Ion:113 Resp: 86978  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 82.8 124.2  
 192 21.2 17.0 25.6



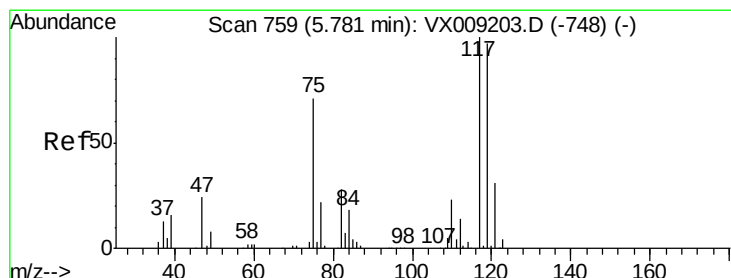
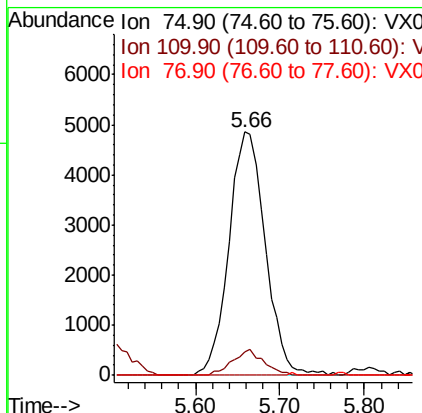
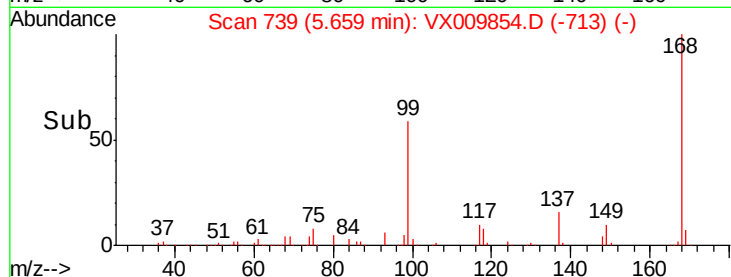
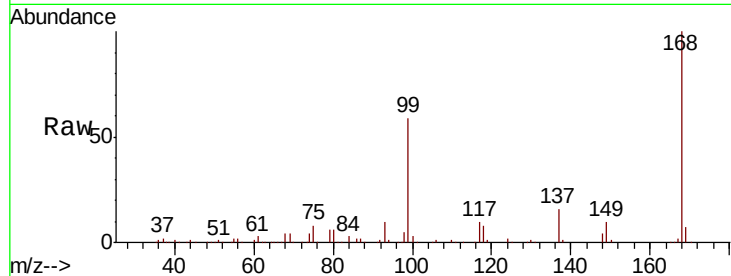




#36  
 1,1-Dichloropropene  
 Concen: 5.347 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009854.D  
 Acq: 23 May 2019 13:34

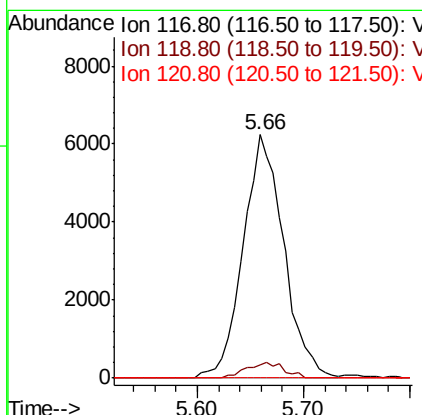
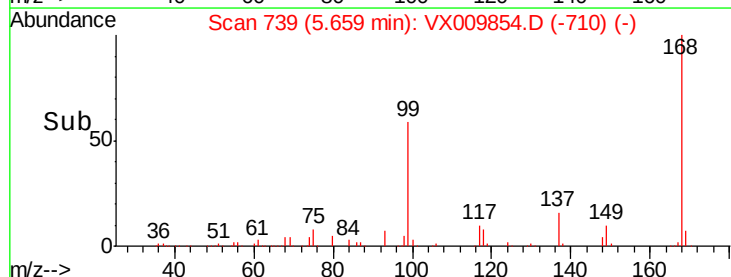
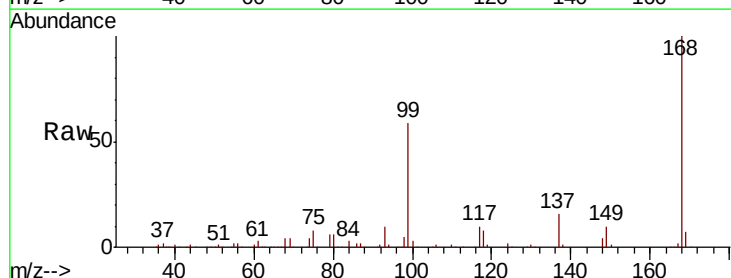
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-190521

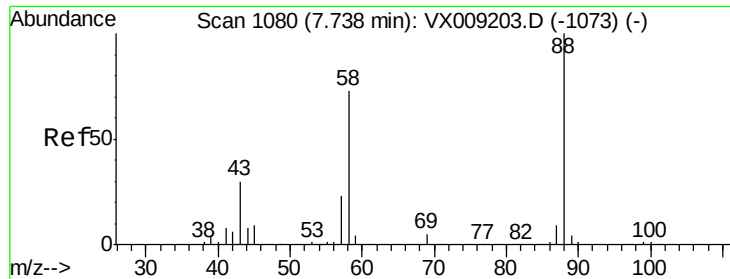
Tot Ion: 75 Resp: 14244  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 16.9 50.6#  
 77 0.0 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.899 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX009854.D  
 Acq: 23 May 2019 13:34

Tgt Ion: 117 Resp: 16698  
 Ion Ratio Lower Upper  
 117 100  
 119 5.5 77.5 116.3#  
 121 0.0 24.7 37.1#





#49

1,4-Dioxane

Concen: 0.318 ug/l

RT: 7.70 min Scan# 1073

Delta R.T. -0.04 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

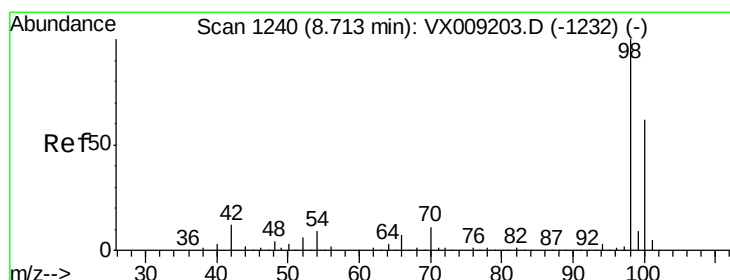
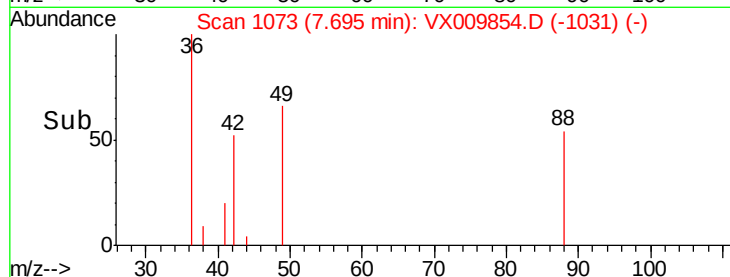
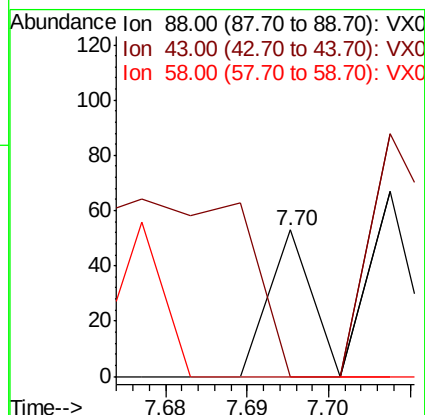
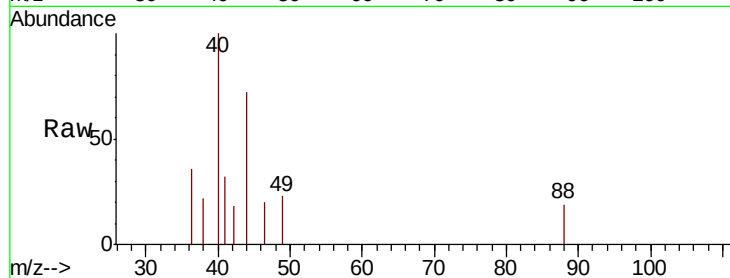
MSVOA\_X

ClientSampleId :

TB-01-190521

Tot Ion: 88 Resp: 19

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 505.3 | 28.6  | 42.8# |
| 58  | 0.0   | 61.7  | 92.5# |



#50

Toluene-d8

Concen: 49.533 ug/l

RT: 8.71 min Scan# 1240

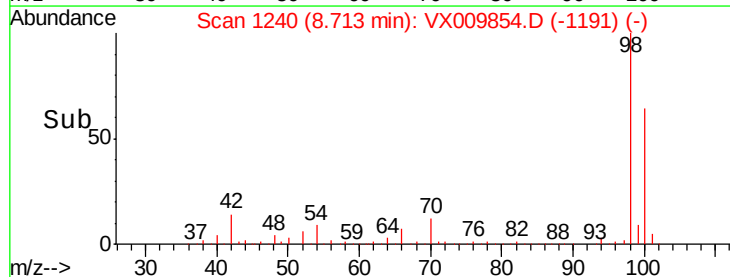
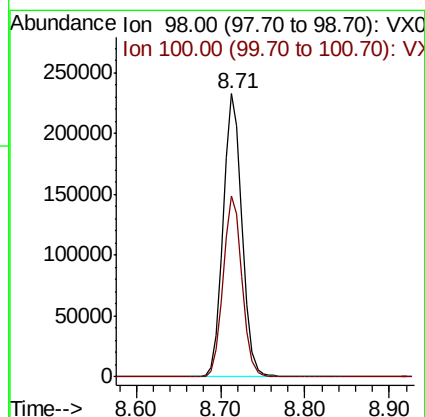
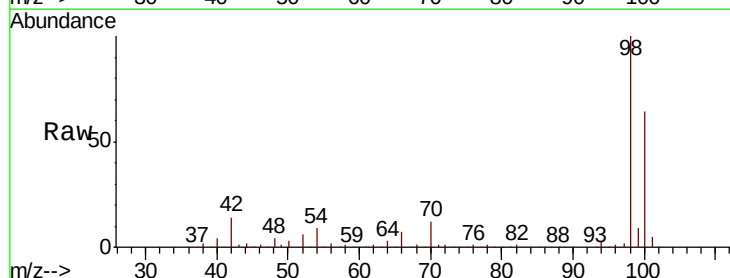
Delta R.T. 0.00 min

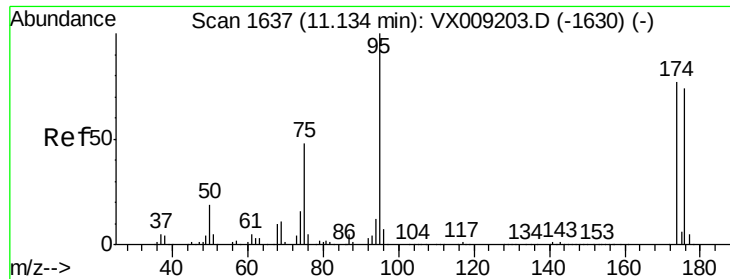
Lab File: VX009854.D

Acq: 23 May 2019 13:34

Tgt Ion: 98 Resp: 360372

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 64.0  | 51.2  | 76.8  |

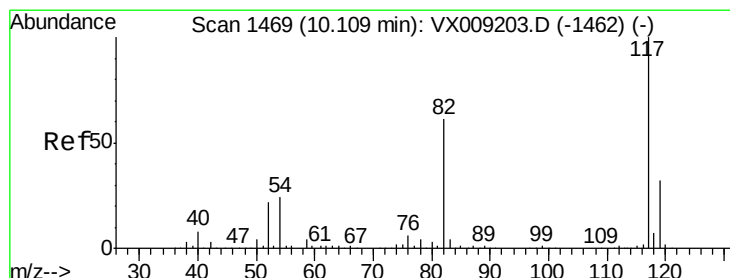
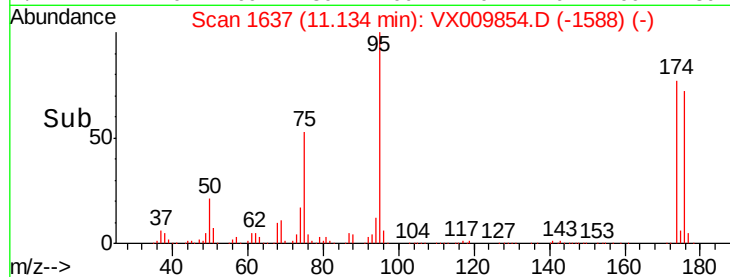
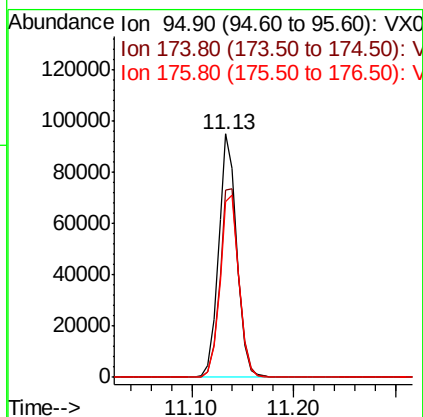
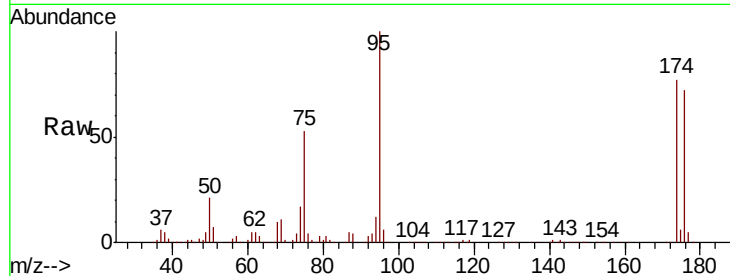




#62  
4-Bromofluorobenzene  
Concen: 44.855 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX009854.D  
Acq: 23 May 2019 13:34

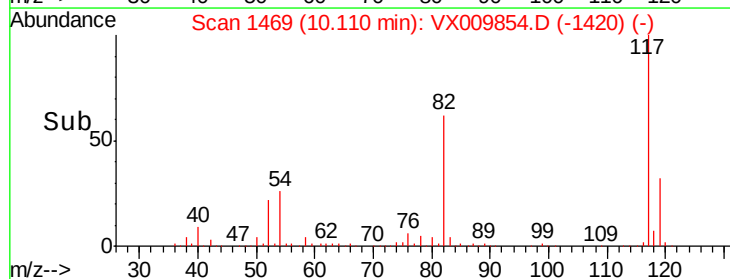
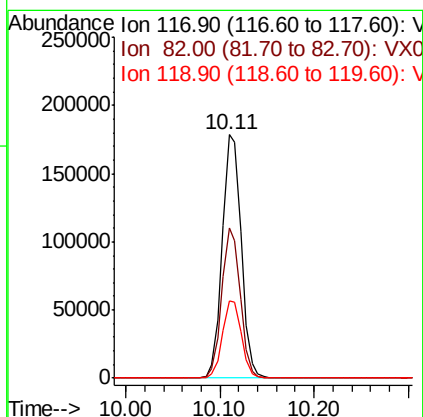
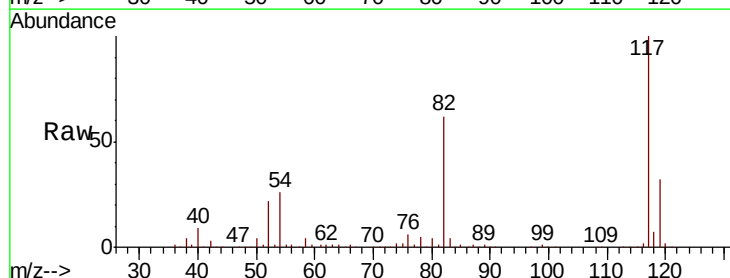
Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-190521

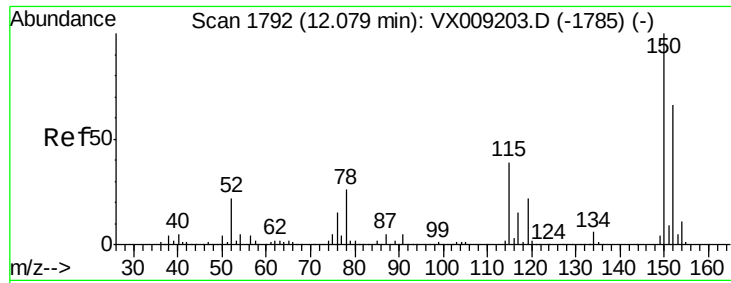
Tot Ion: 95 Resp: 118581  
Ion Ratio Lower Upper  
95 100  
174 80.9 0.0 161.6  
176 77.6 0.0 159.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009854.D  
Acq: 23 May 2019 13:34

Tgt Ion: 117 Resp: 249206  
Ion Ratio Lower Upper  
117 100  
82 61.5 48.8 73.2  
119 31.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-190521

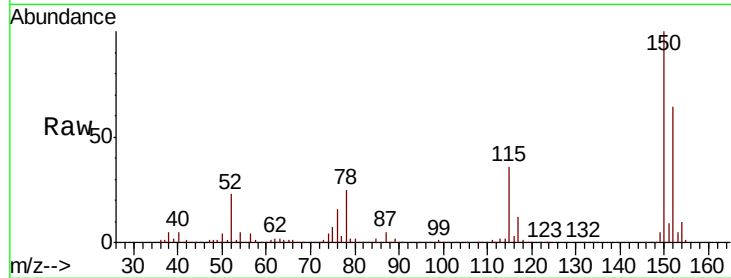
Tot Ion:152 Resp: 103443

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

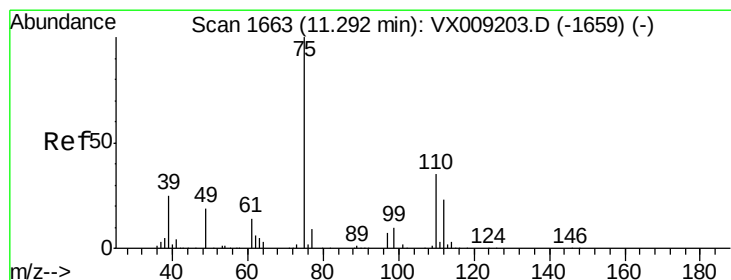
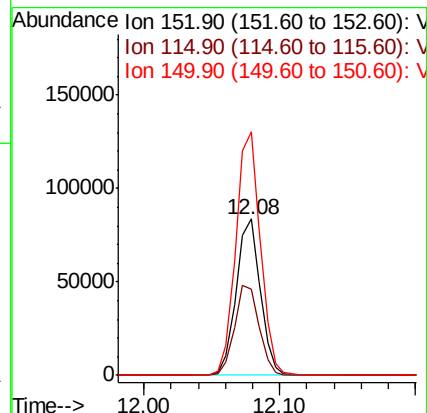
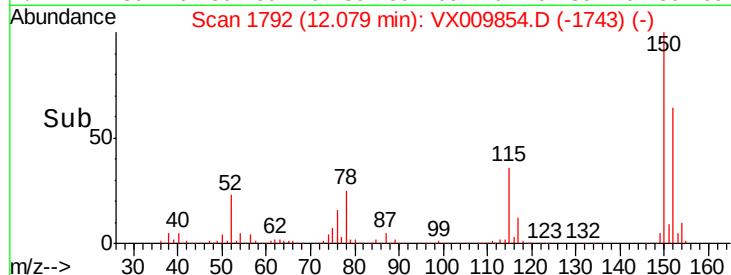
150 158.0 0.0 346.4



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: 25.489 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009854.D

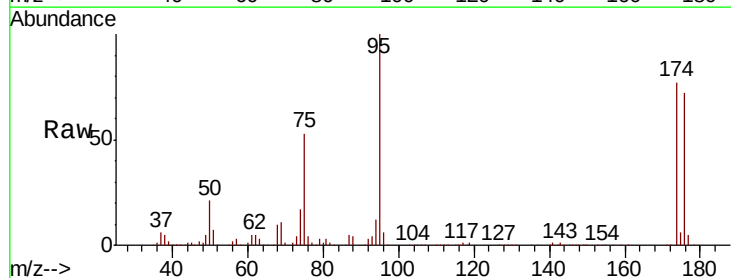
Acq: 23 May 2019 13:34

Tgt Ion: 75 Resp: 61162

Ion Ratio Lower Upper

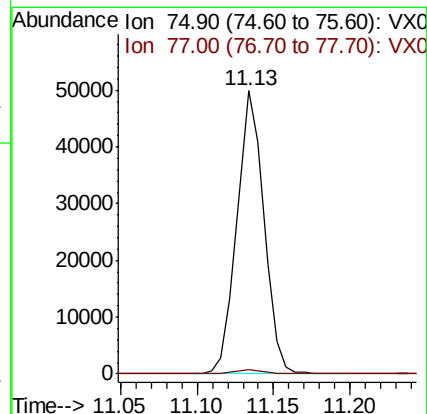
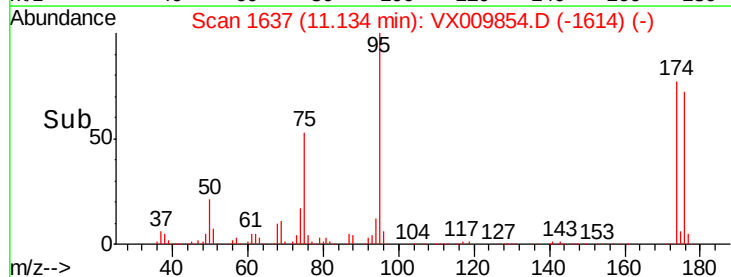
75 100

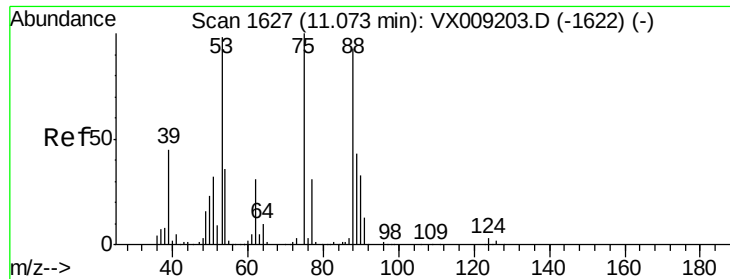
77 1.4 22.1 66.1#



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: 65.218 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-190521

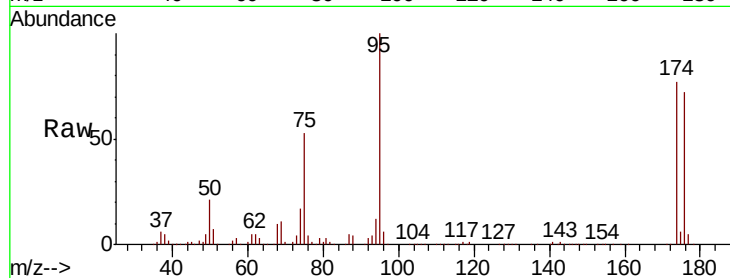
Tot Ion: 75 Resp: 61162

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

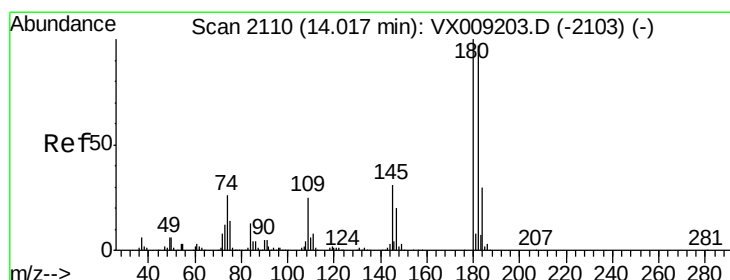
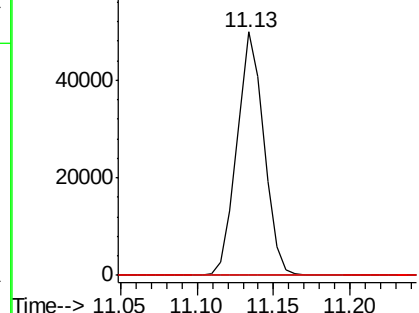
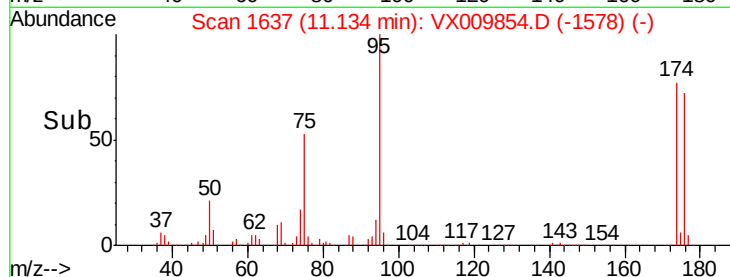
89 0.0 34.7 52.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.200 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. 0.01 min

Lab File: VX009854.D

Acq: 23 May 2019 13:34

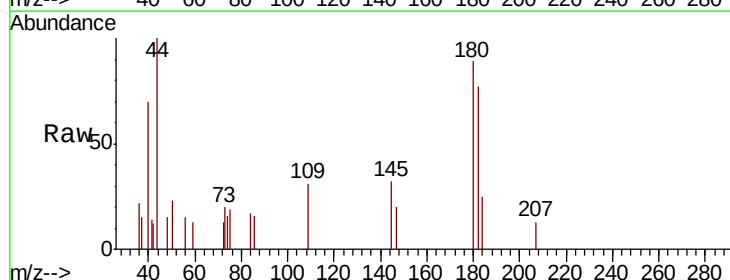
Tgt Ion: 180 Resp: 471

Ion Ratio Lower Upper

180 100

182 90.9 47.8 143.4

145 34.6 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

