

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070819\  
 Data File : VX010720.D  
 Acq On : 09 Jul 2019 01:33  
 Operator : JC/SP  
 Sample : K3691-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WP022MW004-190705

Quant Time: Jul 09 07:23:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 225007   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 351791   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 325222   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 151677   | 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   | 113549   | 53.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.64% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 106700   | 49.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.14%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 419549   | 50.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.90% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 143805   | 48.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.74%  |          |

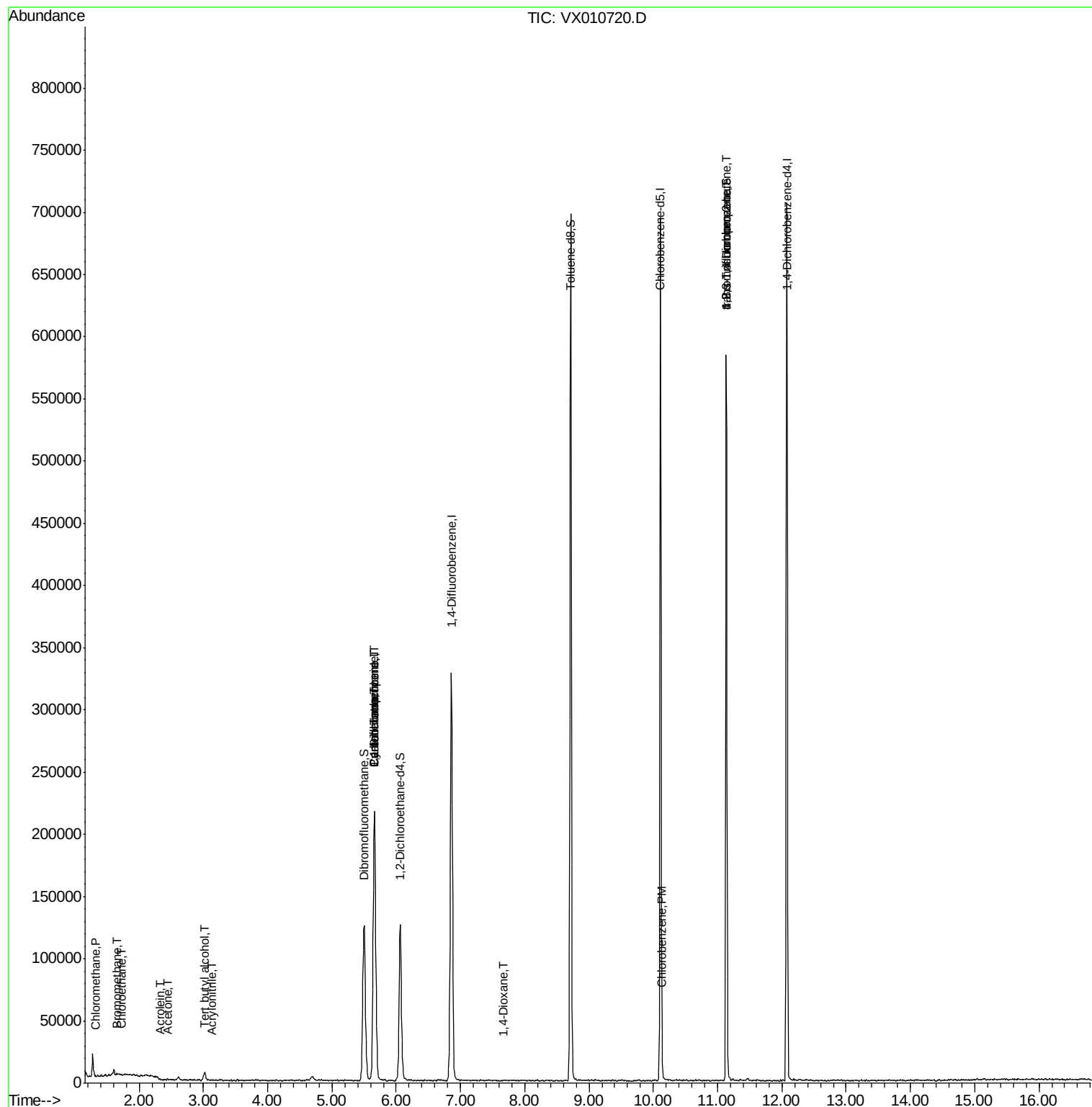
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 691      | 0.379  | ug/l # | 81     |
| 5) Bromomethane                | 1.65  | 94   | 607      | 0.624  | ug/l # | 78     |
| 6) Chloroethane                | 1.72  | 64   | 281      | 0.239  | ug/l   | 91     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 3508     | 6.355  | ug/l # | 81     |
| 13) Acrolein                   | 2.32  | 56   | 87       | 0.238  | ug/l # | 54     |
| 15) Acrylonitrile              | 3.13  | 53   | 221      | 0.202  | ug/l # | 18     |
| 16) Acetone                    | 2.45  | 43   | 1210     | 1.144  | ug/l   | 88     |
| 31) Cyclohexane                | 5.66  | 56   | 4305     | 1.413  | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14340    | 5.130  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20169    | 6.663  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.67  | 88   | 20       | 0.314  | ug/l # | 1      |
| 65) Chlorobenzene              | 10.14 | 112  | 1798     | 0.272  | ug/l # | 81     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 70136    | 25.375 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 70136    | 59.198 | ug/l # | 16     |

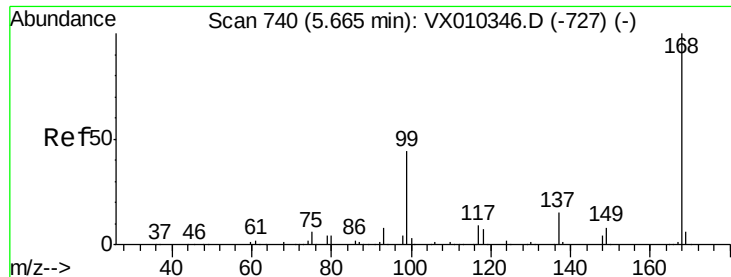
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 09 07:23:39 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

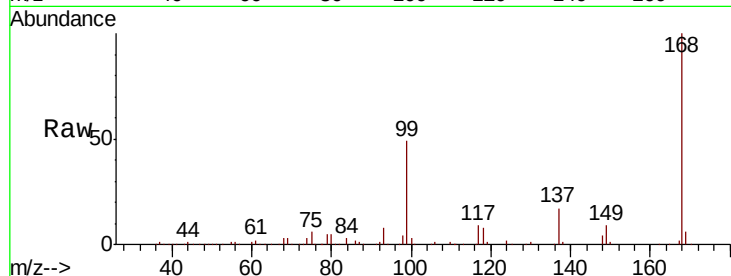
WP022MW004-190705

Tot Ion:168 Resp: 225007

Ion Ratio Lower Upper

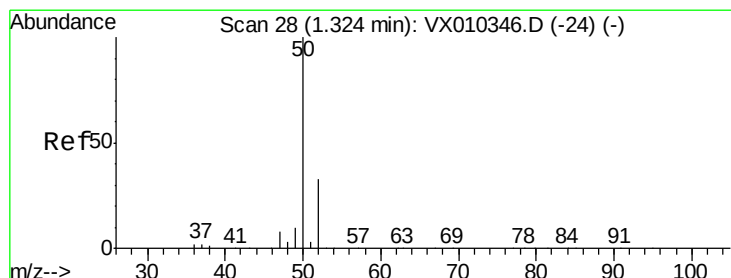
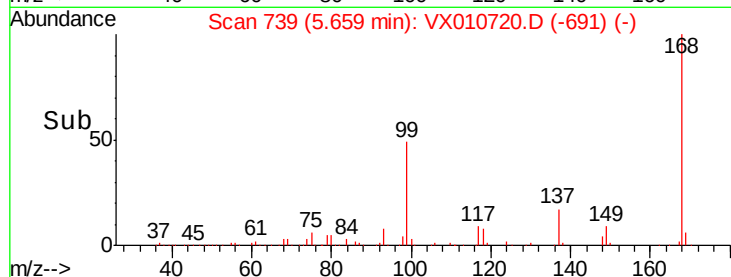
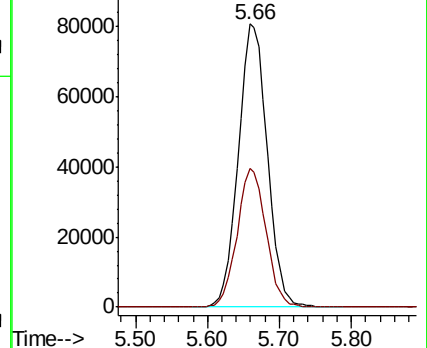
168 100

99 49.0 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.379 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010720.D

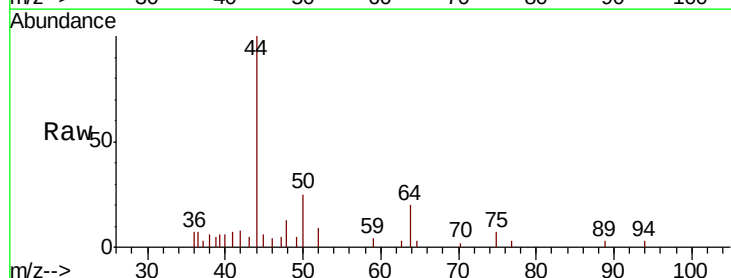
Acq: 09 Jul 2019 01:33

Tgt Ion: 50 Resp: 691

Ion Ratio Lower Upper

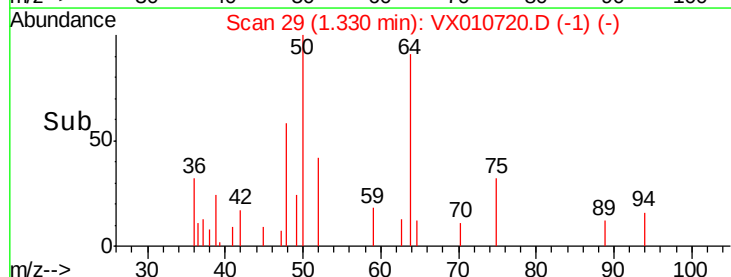
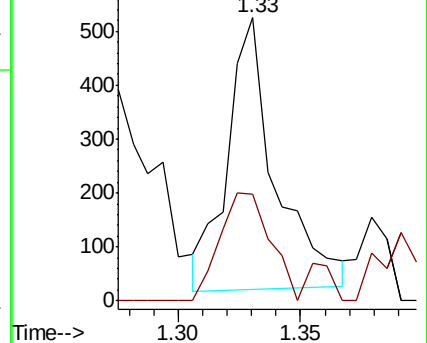
50 100

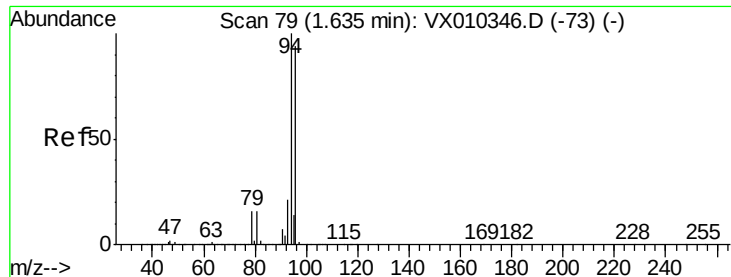
52 44.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.624 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

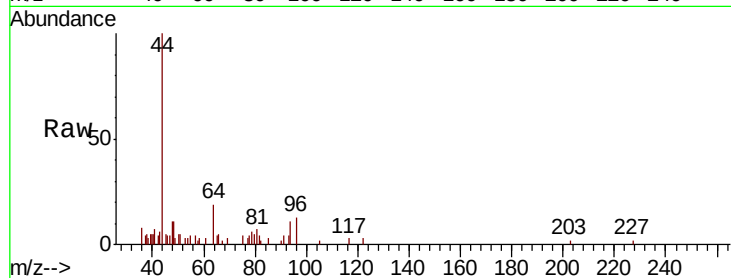
WP022MW004-190705

Tot Ion: 94 Resp: 607

Ion Ratio Lower Upper

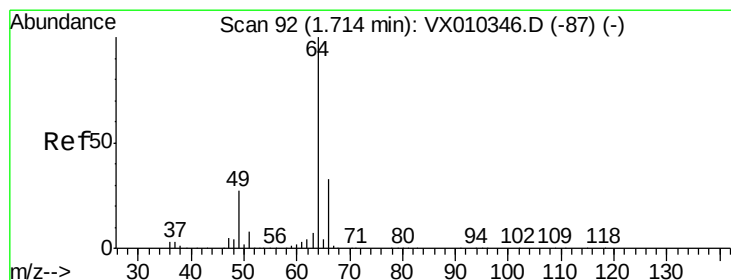
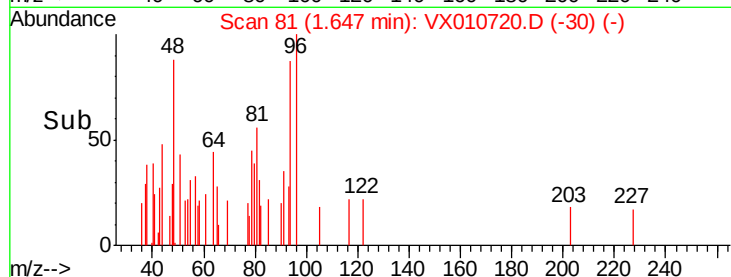
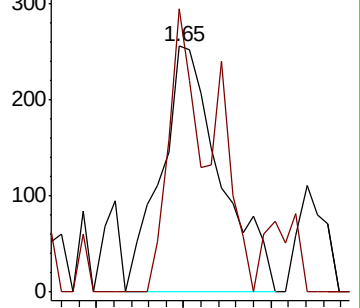
94 100

96 115.2 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.239 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX010720.D

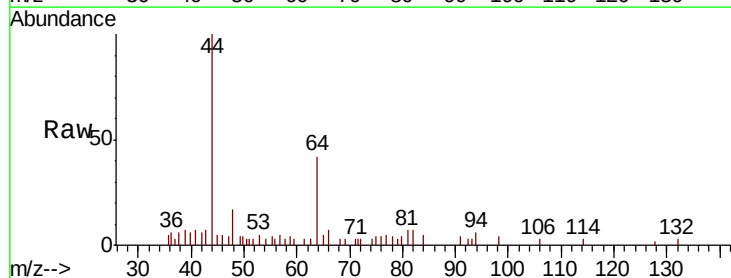
Acq: 09 Jul 2019 01:33

Tgt Ion: 64 Resp: 281

Ion Ratio Lower Upper

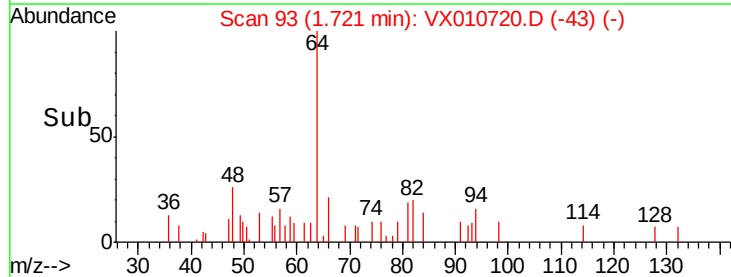
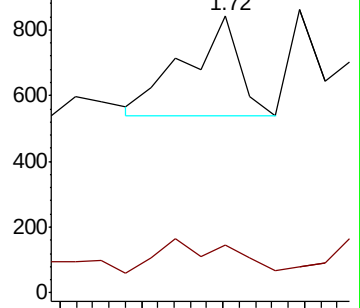
64 100

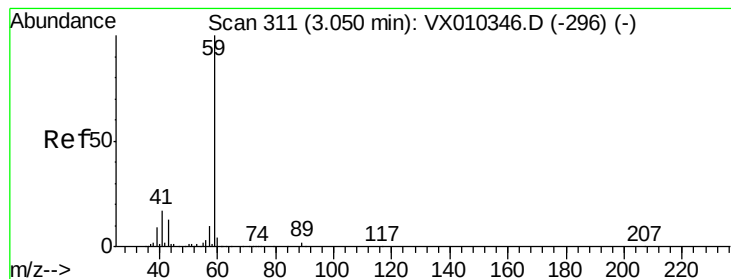
66 28.2 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#11

Tert butyl alcohol

Concen: 6.355 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

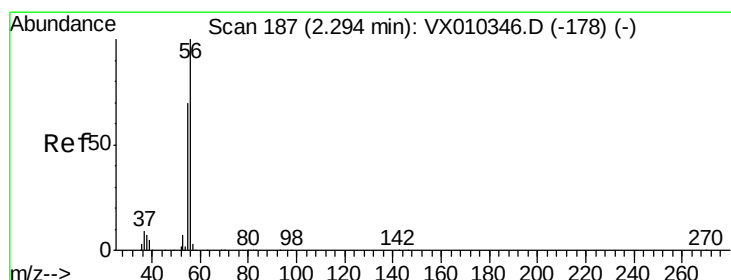
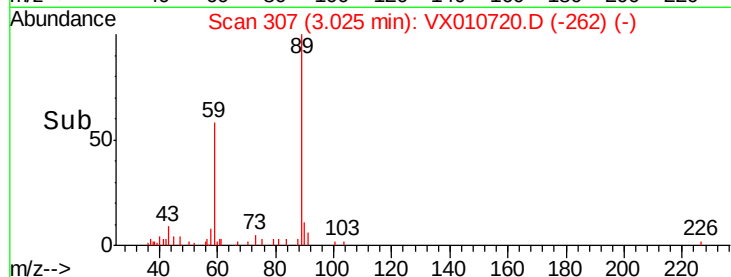
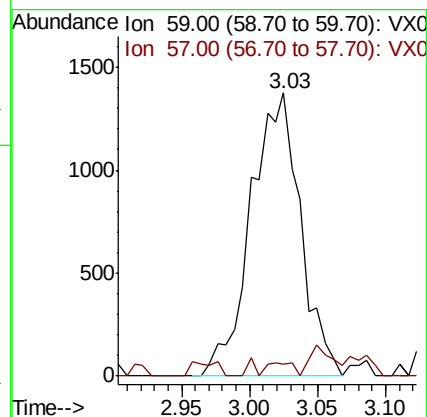
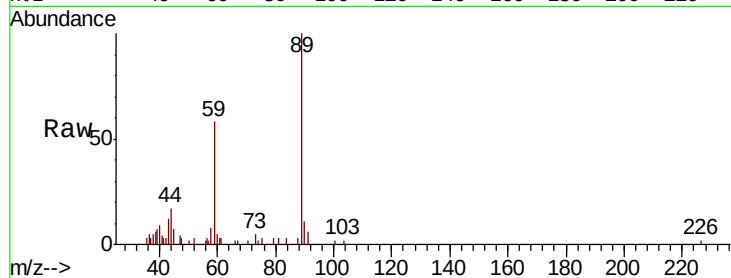
WP022MW004-190705

Tot Ion: 59 Resp: 3508

Ion Ratio Lower Upper

59 100

57 2.5 7.7 11.5#



#13

Acrolein

Concen: 0.238 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX010720.D

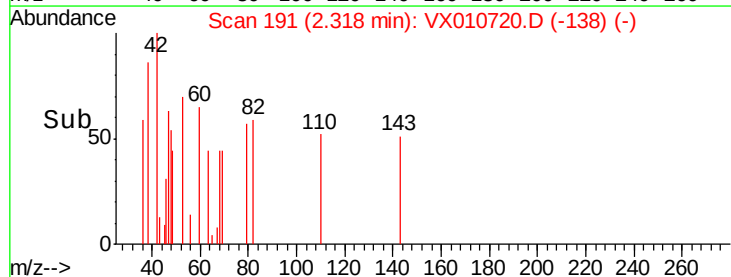
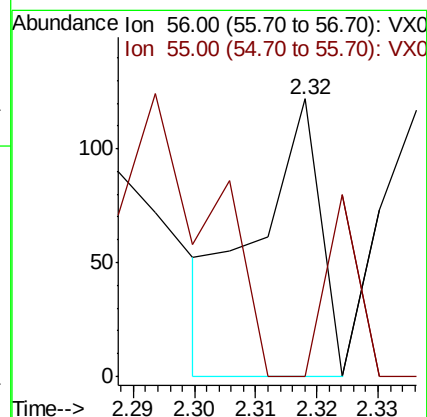
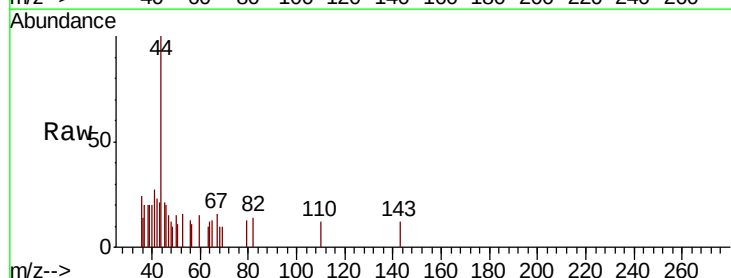
Acq: 09 Jul 2019 01:33

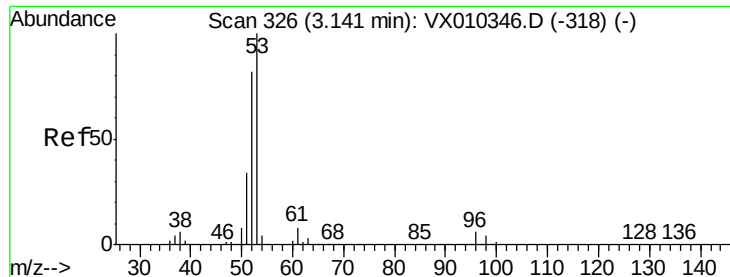
Tgt Ion: 56 Resp: 87

Ion Ratio Lower Upper

56 100

55 33.3 56.9 85.3#





#15

Acrylonitrile

Concen: 0.202 ug/l

RT: 3.13 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

WP022MW004-190705

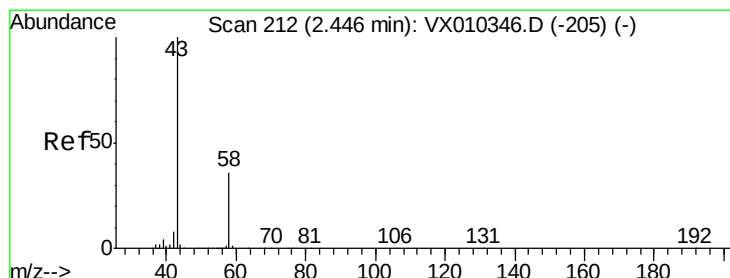
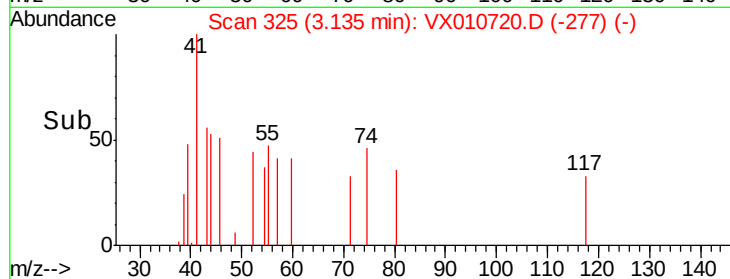
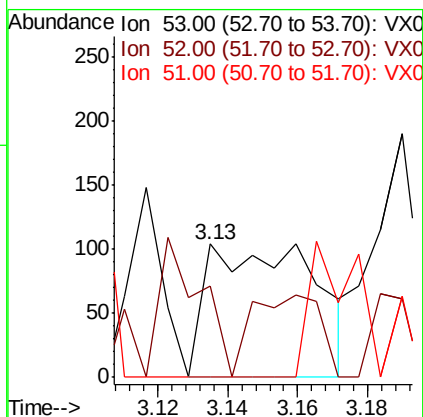
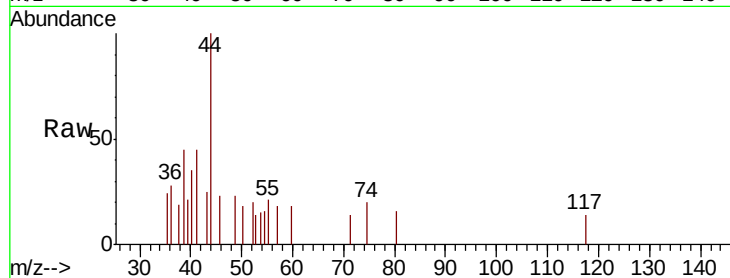
Tot Ion: 53 Resp: 221

Ion Ratio Lower Upper

53 100

52 0.0 65.5 98.3#

51 0.0 28.2 42.4#



#16

Acetone

Concen: 1.144 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010720.D

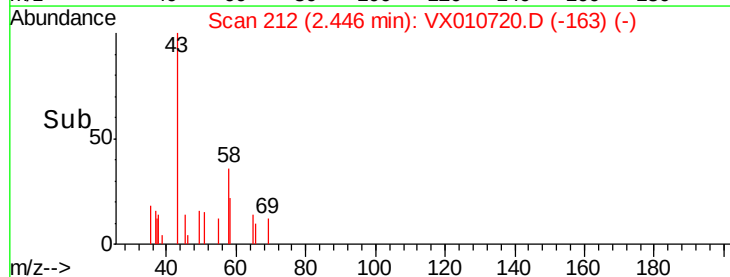
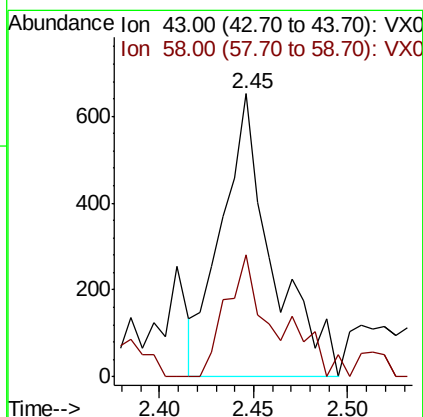
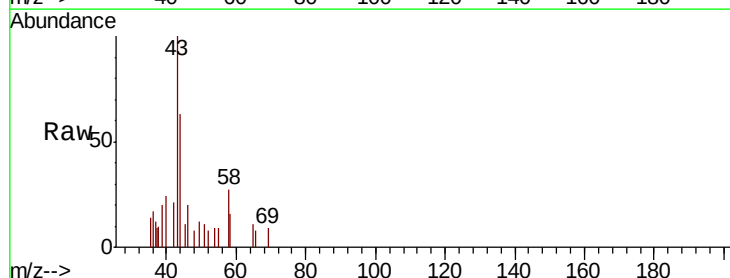
Acq: 09 Jul 2019 01:33

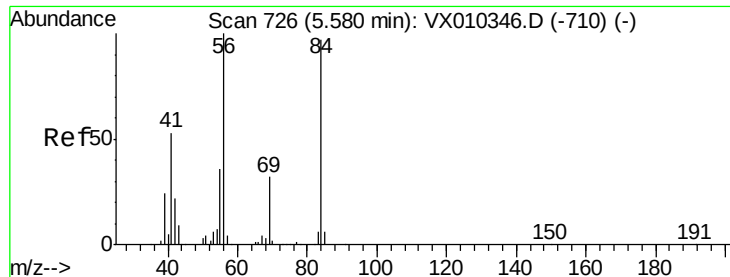
Tgt Ion: 43 Resp: 1210

Ion Ratio Lower Upper

43 100

58 43.3 28.9 43.3

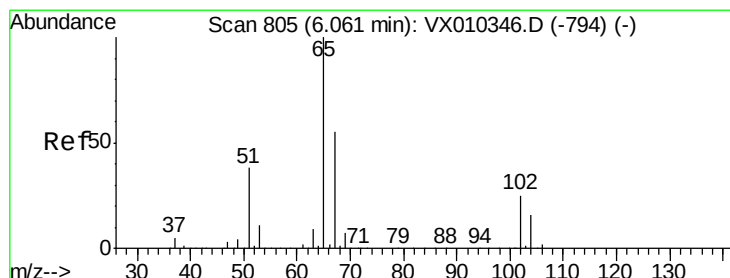
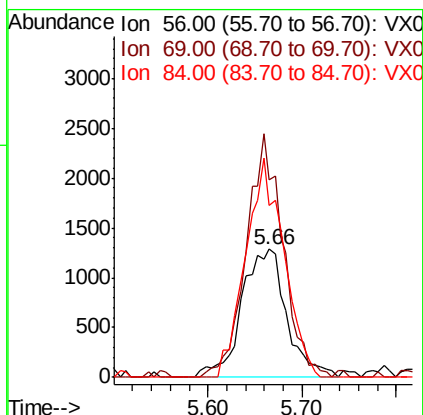
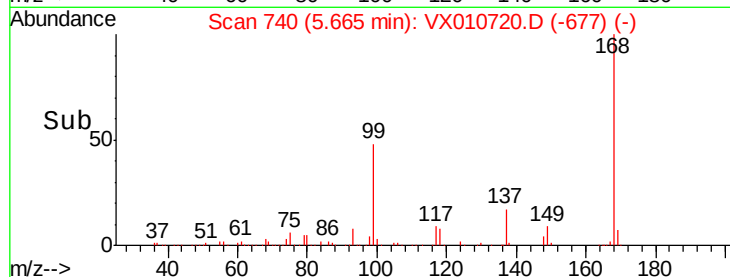
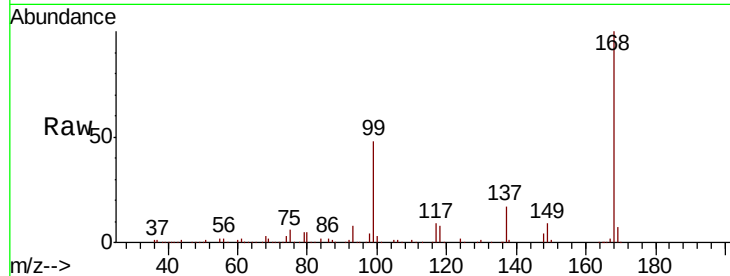




#31  
Cyclohexane  
Concen: 1.413 ug/l  
RT: 5.66 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX010720.D  
Acq: 09 Jul 2019 01:33

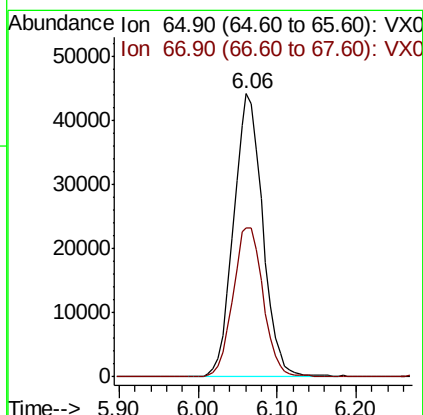
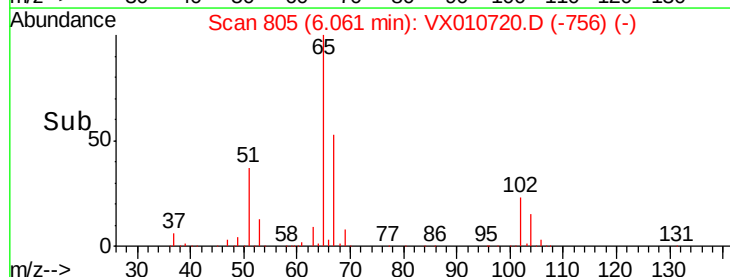
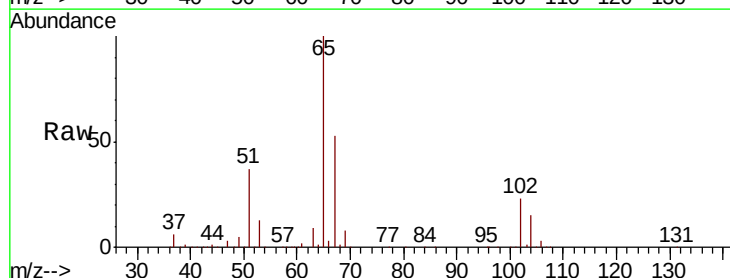
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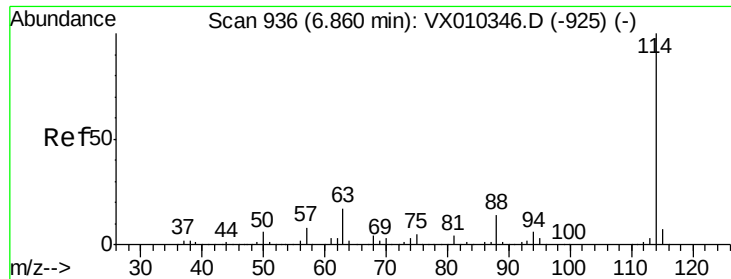
Tot Ion: 56 Resp: 4305  
Ion Ratio Lower Upper  
56 100  
69 153.9 25.9 38.9#  
84 134.0 78.0 117.0#



#33  
1,2-Dichloroethane-d4  
Concen: 53.823 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX010720.D  
Acq: 09 Jul 2019 01:33

Tgt Ion: 65 Resp: 113549  
Ion Ratio Lower Upper  
65 100  
67 54.9 0.0 110.2

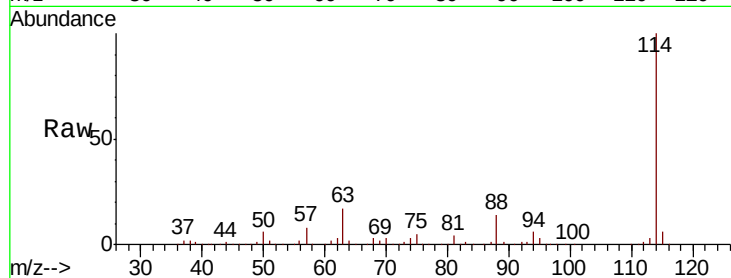




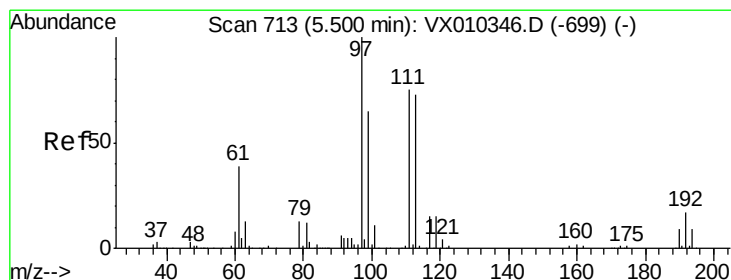
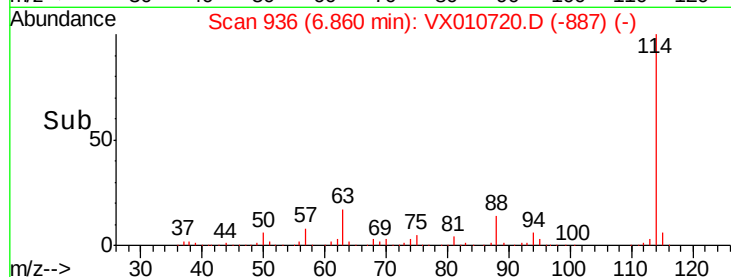
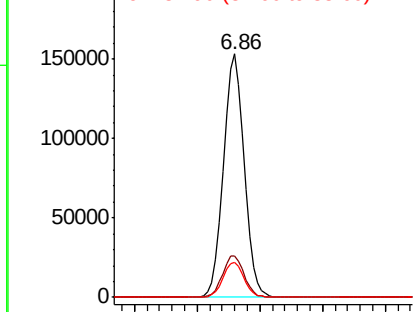
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. 0.00 min  
Lab File: VX010720.D  
Acq: 09 Jul 2019 01:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tot Ion:114 Resp: 351791  
Ion Ratio Lower Upper  
114 100  
63 16.8 0.0 33.8  
88 14.2 0.0 27.6

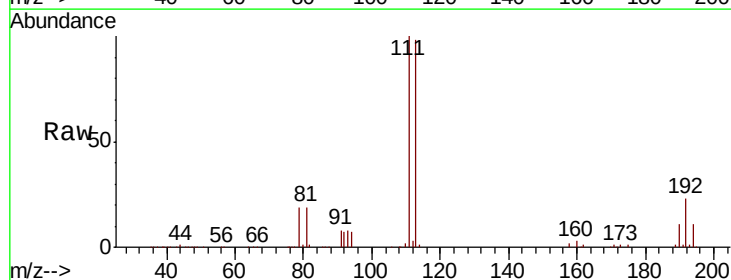


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

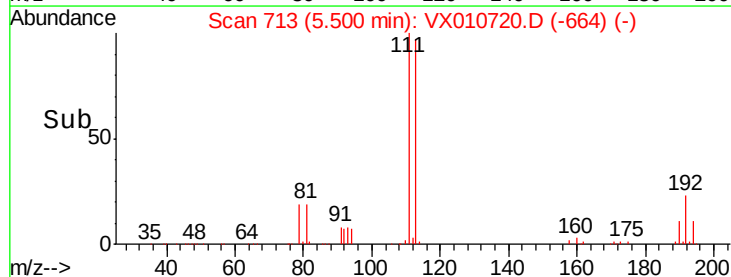
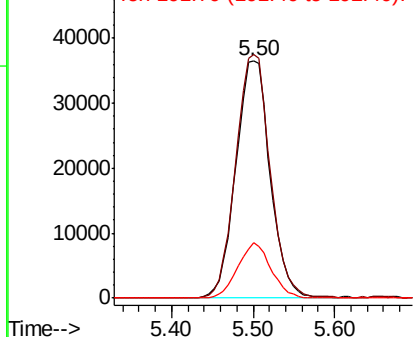


#35  
Dibromofluoromethane  
Concen: 49.573 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.00 min  
Lab File: VX010720.D  
Acq: 09 Jul 2019 01:33

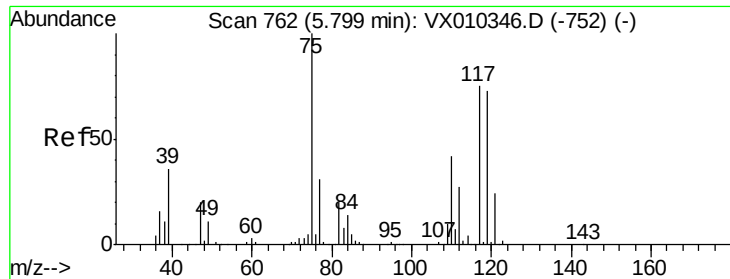
Tgt Ion:113 Resp: 106700  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.2 121.8  
192 22.6 18.6 27.8



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



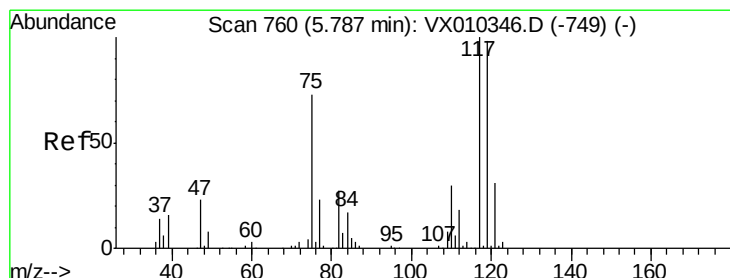
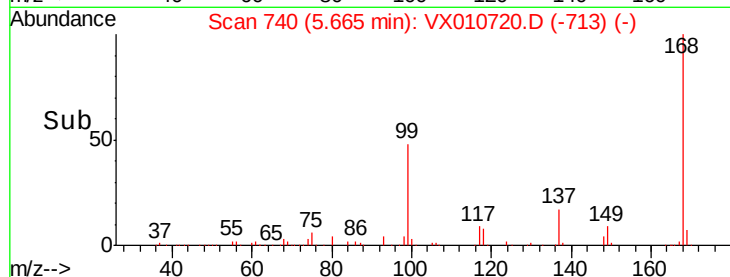
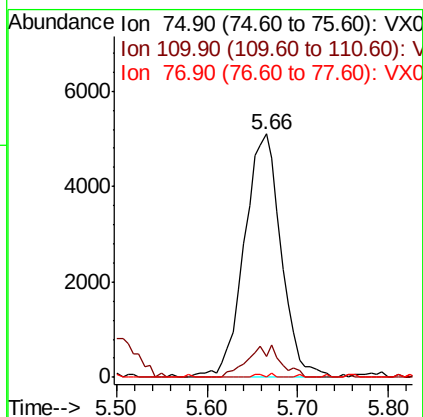
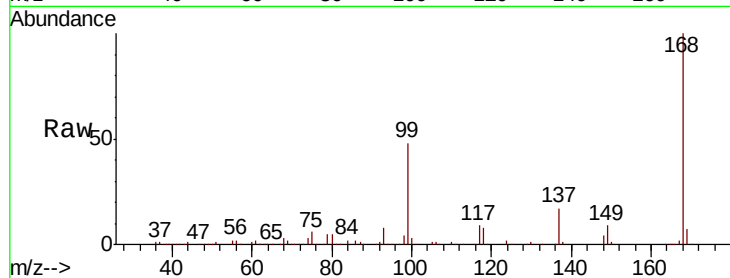




#36  
 1,1-Dichloropropene  
 Concen: 5.130 ug/l  
 RT: 5.66 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX010720.D  
 Acq: 09 Jul 2019 01:33

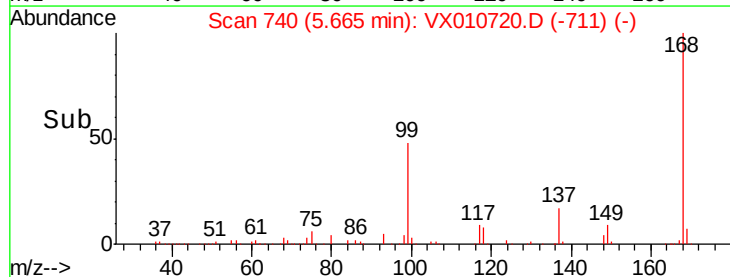
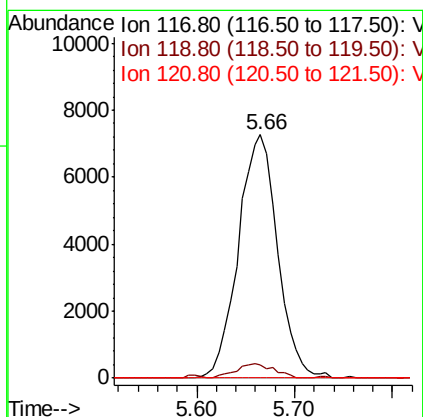
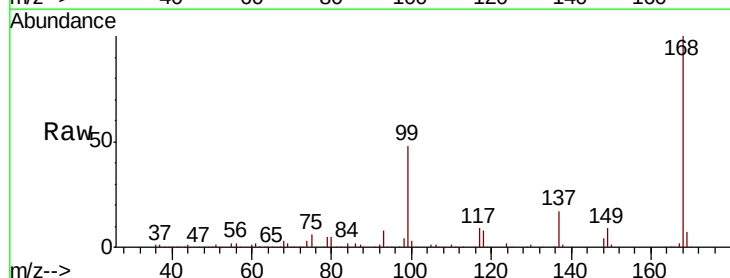
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WP022MW004-190705

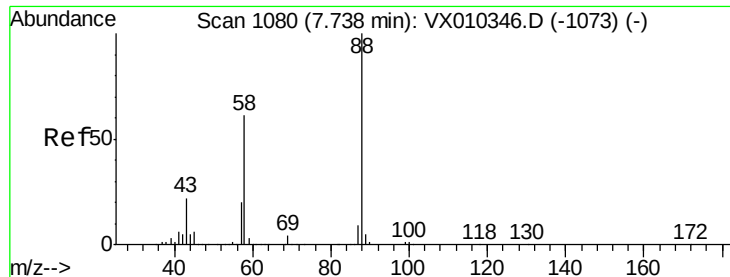
Tot Ion: 75 Resp: 14340  
 Ion Ratio Lower Upper  
 75 100  
 110 11.8 20.8 62.2#  
 77 0.3 25.4 38.0#



#38  
 Carbon Tetrachloride  
 Concen: 6.663 ug/l  
 RT: 5.66 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX010720.D  
 Acq: 09 Jul 2019 01:33

Tgt Ion: 117 Resp: 20169  
 Ion Ratio Lower Upper  
 117 100  
 119 5.3 78.2 117.4#  
 121 0.0 24.7 37.1#





#49

1,4-Dioxane

Concen: 0.314 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.07 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

WP022MW004-190705

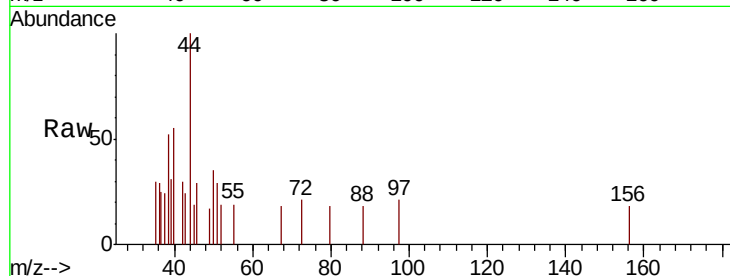
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 610.0 20.2 30.2#

58 0.0 49.5 74.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

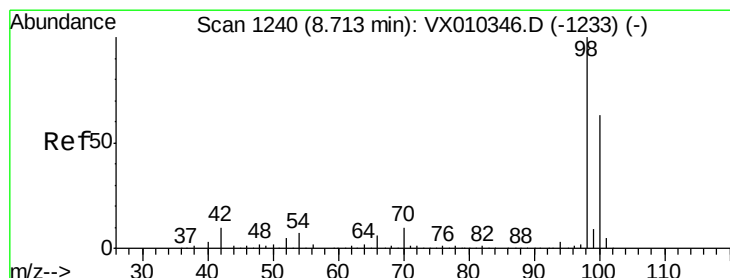
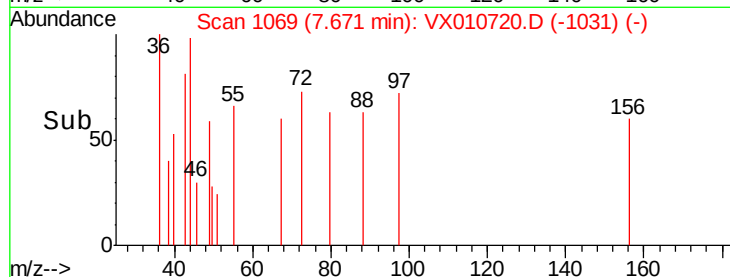
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.67

7.65 7.66 7.67 7.68 7.69

Time-->



#50

Toluene-d8

Concen: 50.949 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010720.D

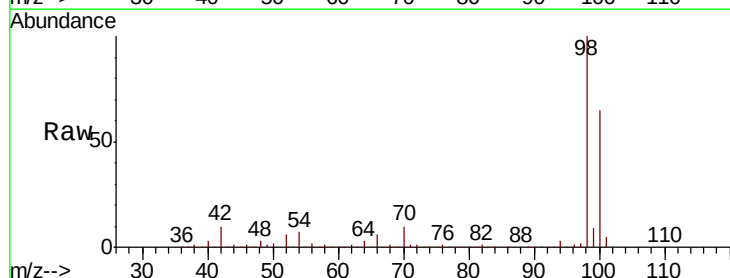
Acq: 09 Jul 2019 01:33

Tgt Ion: 98 Resp: 419549

Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4



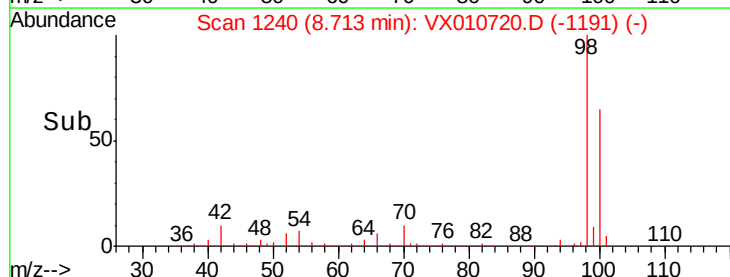
Abundance Ion 98.00 (97.70 to 98.70): VX0

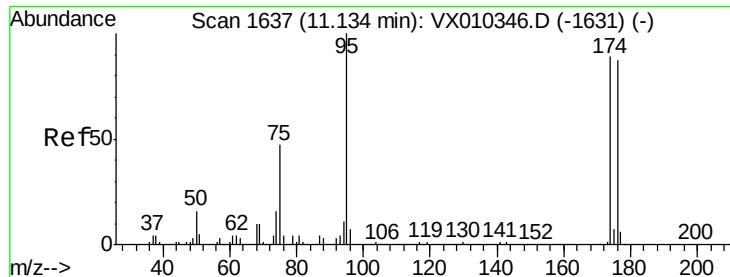
Ion 100.00 (99.70 to 100.70): V

8.71

8.60 8.70 8.80

Time-->





#62

4-Bromofluorobenzene

Concen: 48.372 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

WP022MW004-190705

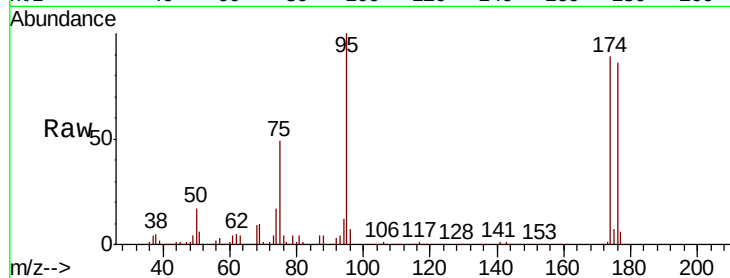
Tot Ion: 95 Resp: 143805

Ion Ratio Lower Upper

95 100

174 94.1 0.0 187.6

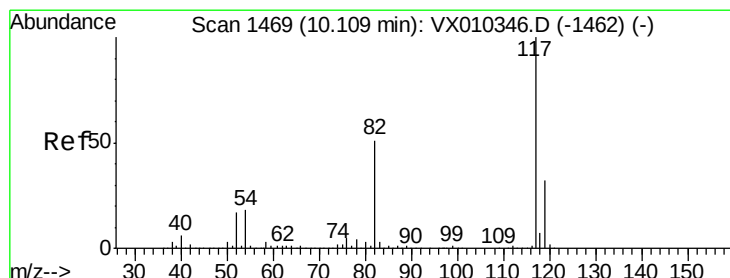
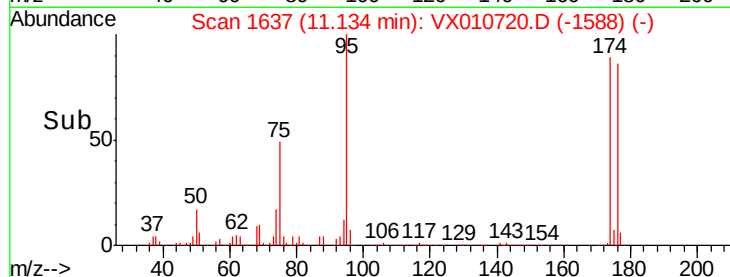
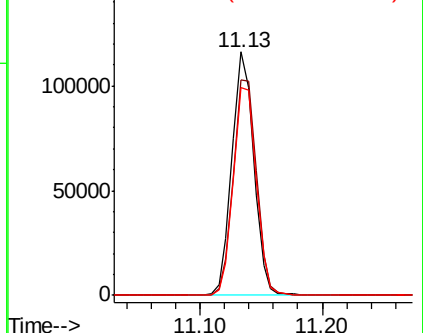
176 89.7 0.0 184.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

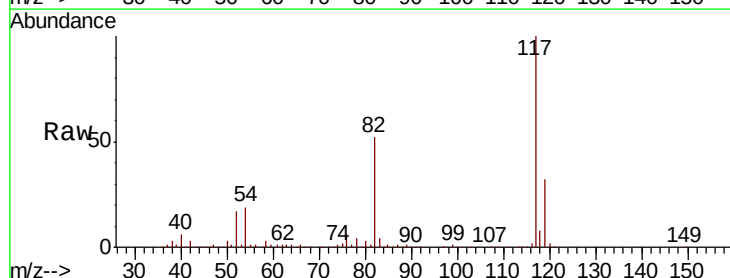
Tgt Ion: 117 Resp: 325222

Ion Ratio Lower Upper

117 100

82 52.5 41.2 61.8

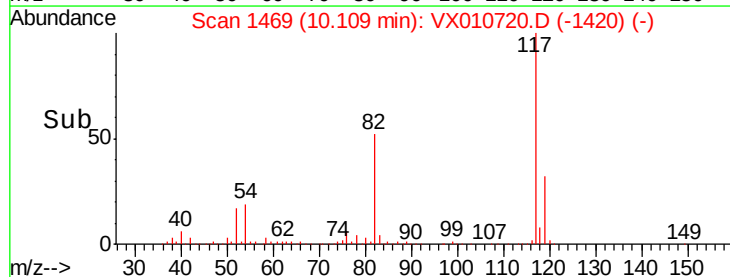
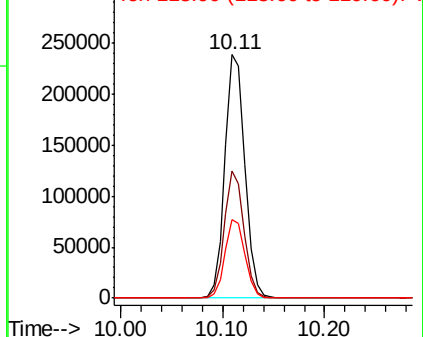
119 32.2 25.5 38.3

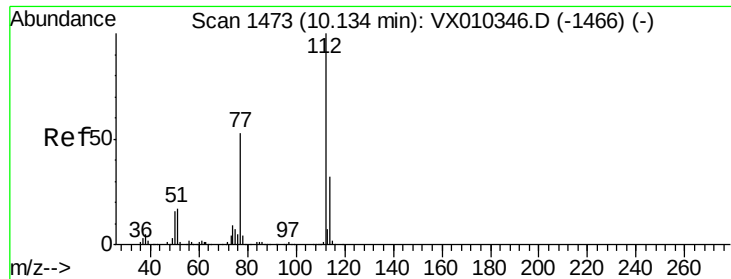


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

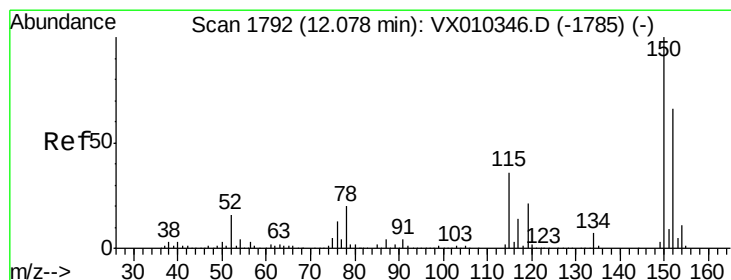
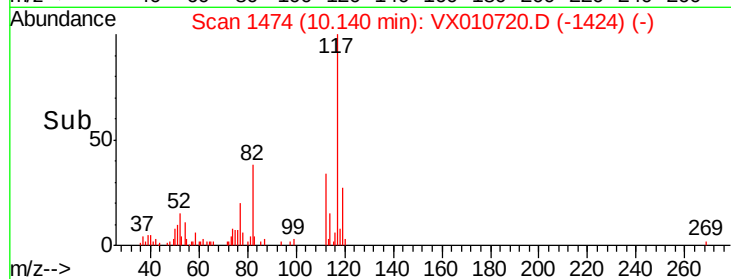
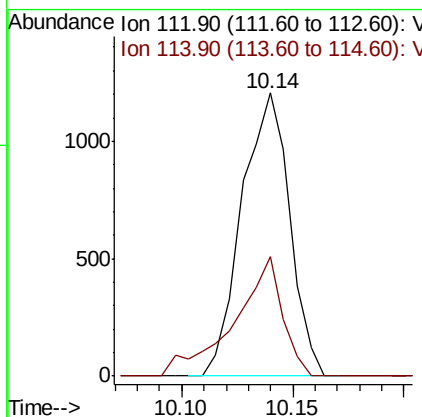
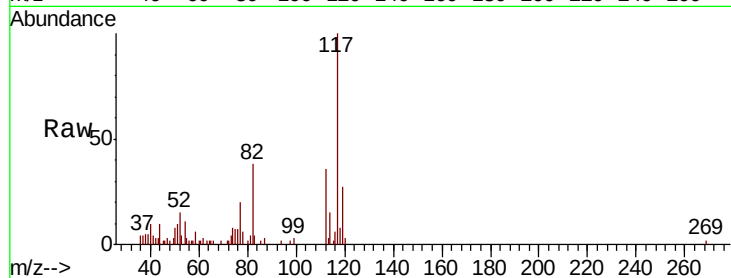




#65  
Chlorobenzene  
Concen: 0.272 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VX010720.D  
Acq: 09 Jul 2019 01:33

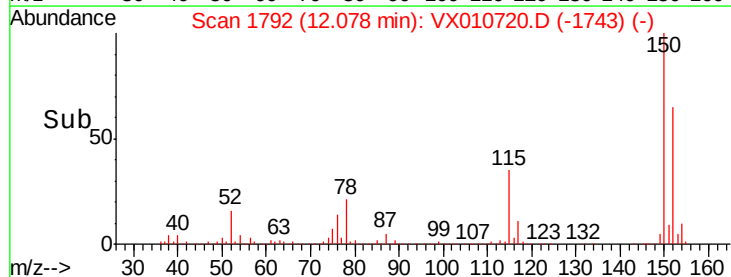
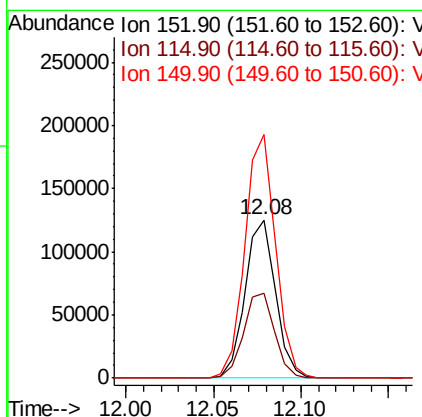
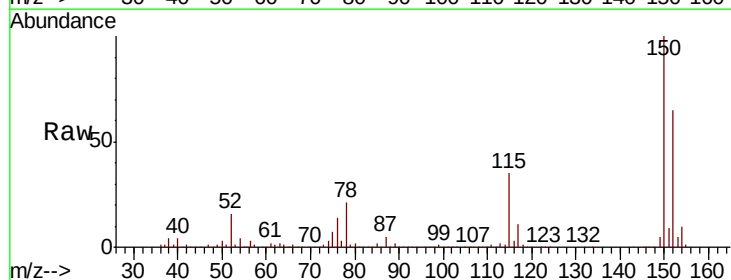
Instrument :  
MSVOA\_X  
ClientSampleId :  
WP022MW004-190705

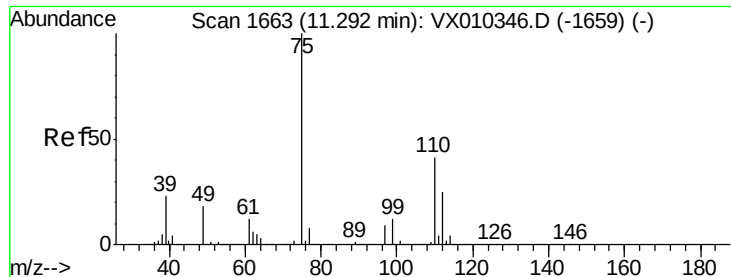
Tot Ion:112 Resp: 1798  
Ion Ratio Lower Upper  
112 100  
114 42.2 25.4 38.2#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010720.D  
Acq: 09 Jul 2019 01:33

Tgt Ion:152 Resp: 151677  
Ion Ratio Lower Upper  
152 100  
115 54.9 38.6 115.7  
150 154.8 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 25.375 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

Instrument :

MSVOA\_X

ClientSampleId :

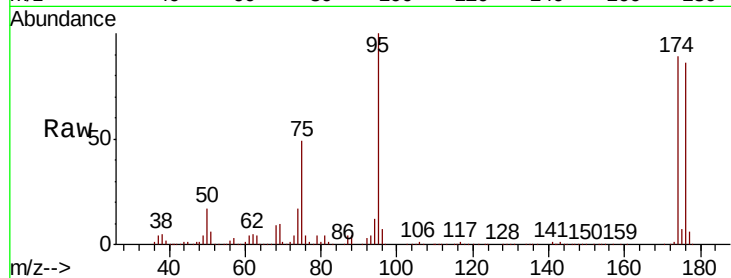
WP022MW004-190705

Tot Ion: 75 Resp: 70136

Ion Ratio Lower Upper

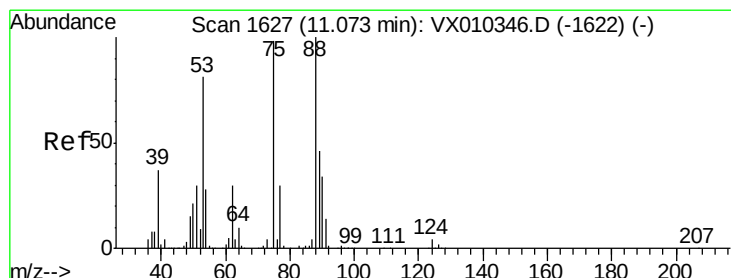
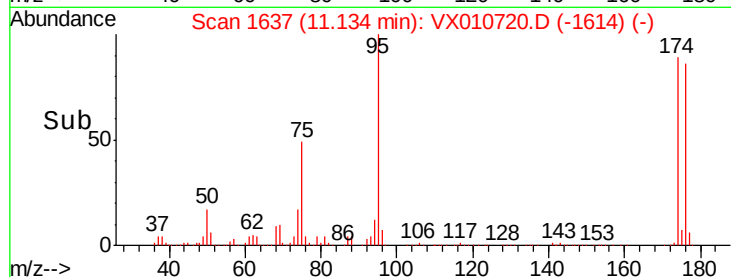
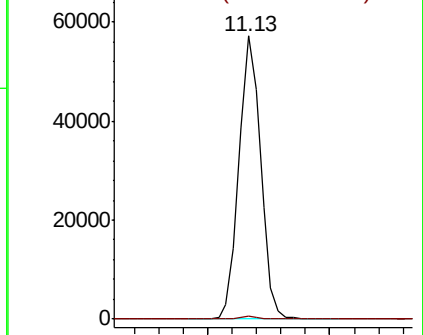
75 100

77 1.1 22.6 67.8#



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: 59.198 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010720.D

Acq: 09 Jul 2019 01:33

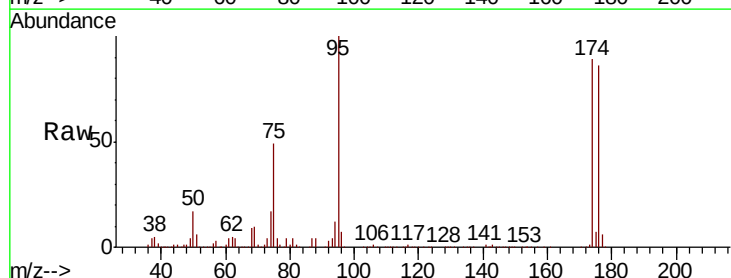
Tgt Ion: 75 Resp: 70136

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.0 37.8 56.6#



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

