

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\  
 Data File : VX009457.D  
 Acq On : 10 May 2019 03:26  
 Operator : JC/SP  
 Sample : K2782-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 10 07:13:02 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  | 187763   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 303239   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 269609   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 117650   | 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   | 124350   | 48.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.02% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 93102    | 48.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.68% |          |
| 50) Toluene-d8              | 8.71  | 98   | 382442   | 49.69 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.38% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 127647   | 45.65 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.30% |          |

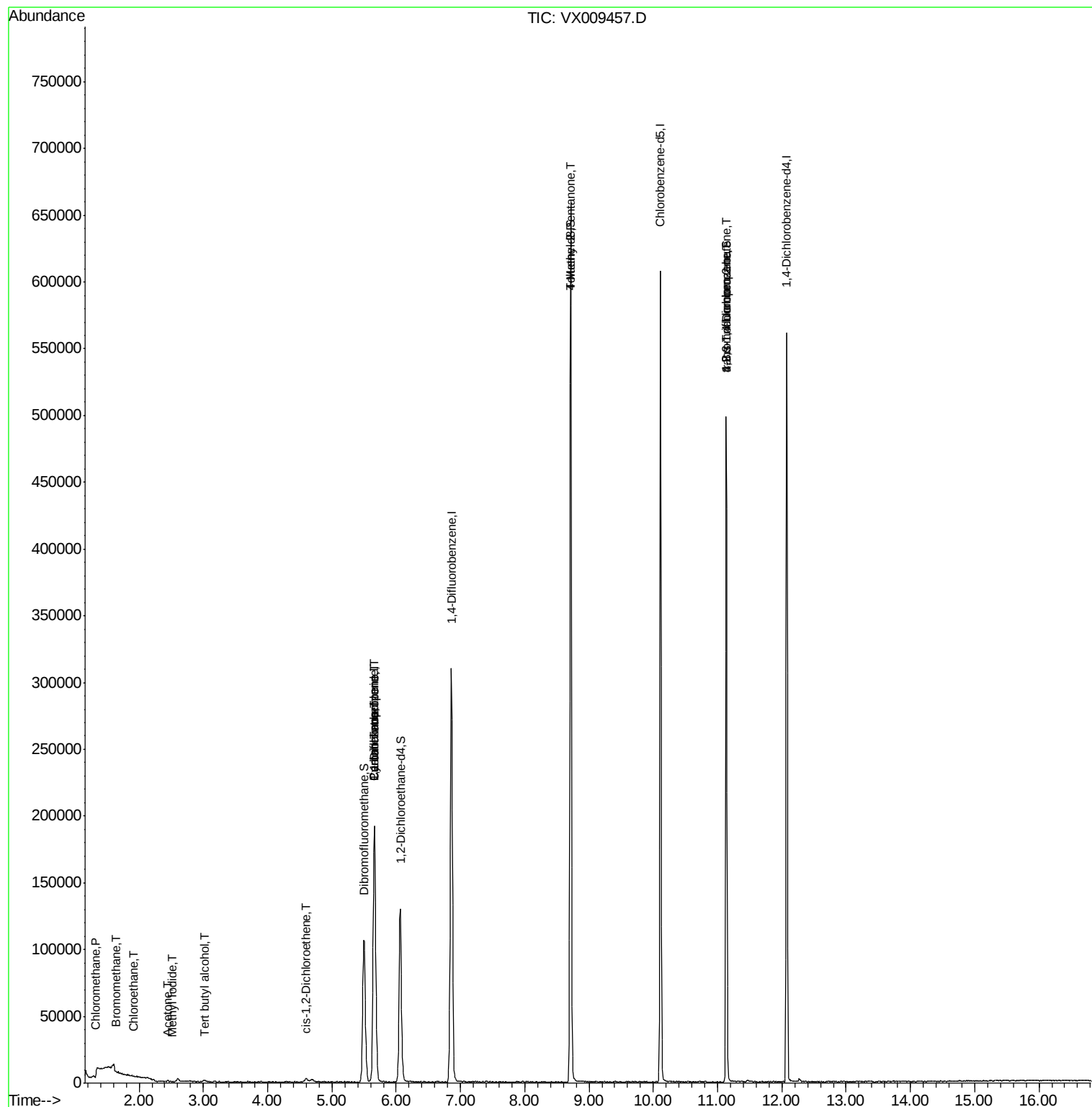
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 477      | 0.202     | ug/l   | 95     |
| 5) Bromomethane                | 1.65  | 94   | 286      | 0.207     | ug/l # | 75     |
| 6) Chloroethane                | 1.92  | 64   | 384      | 0.260     | ug/l # | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 19       | 4.602     | ug/l # | 42     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 1017     | 1.714     | ug/l # | 73     |
| 16) Acetone                    | 2.44  | 43   | 876      | 0.636     | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 1501     | 0.658     | ug/l   | 94     |
| 28) Bromochloromethane         | 4.97  | 49   | 20       | Below Cal | #      | 20     |
| 31) Cyclohexane                | 5.67  | 56   | 4036     | 1.065     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14434    | 5.122     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 17648    | 6.893     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 8.71  | 43   | 2242     | 0.546     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 65274    | 23.918    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 65274    | 61.198    | ug/l # | 10     |

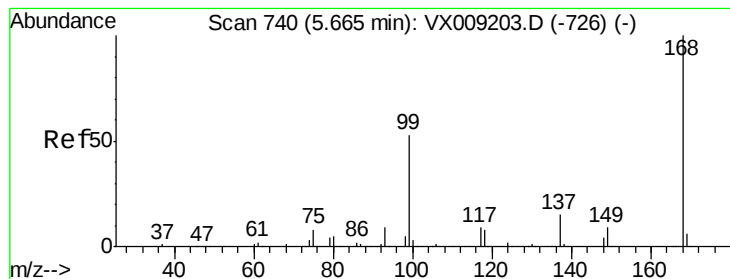
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050919\  
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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 10 07:13:02 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

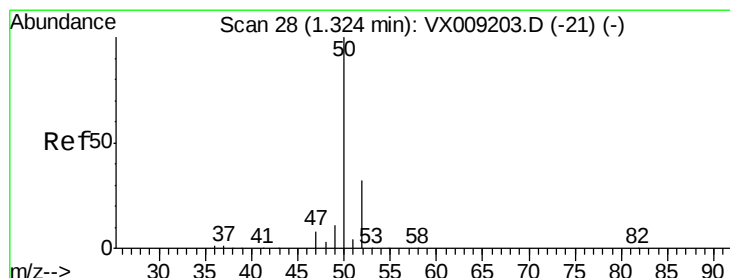
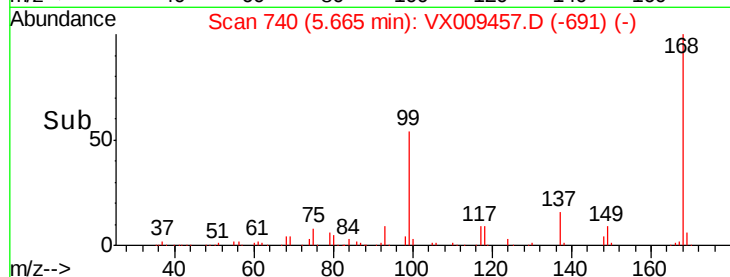
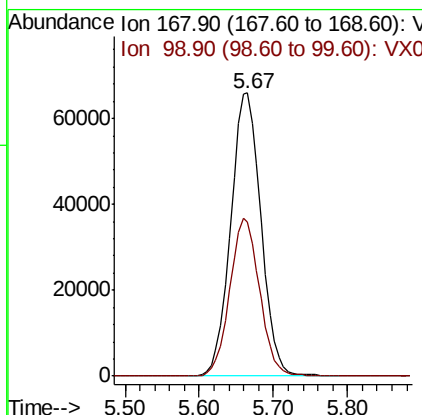
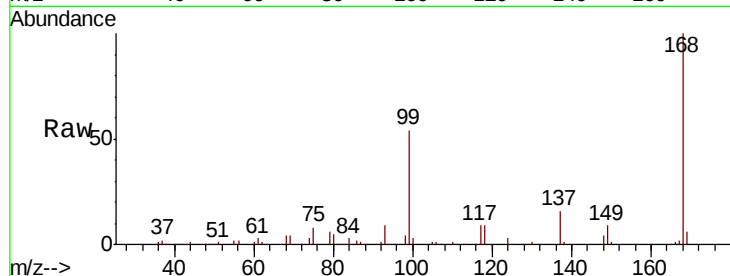




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. -0.00 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

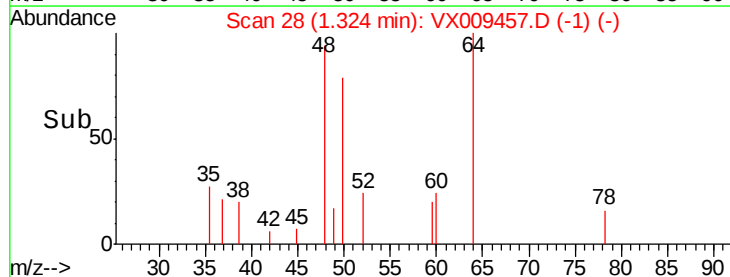
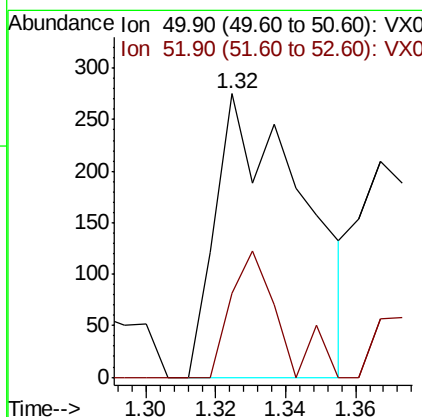
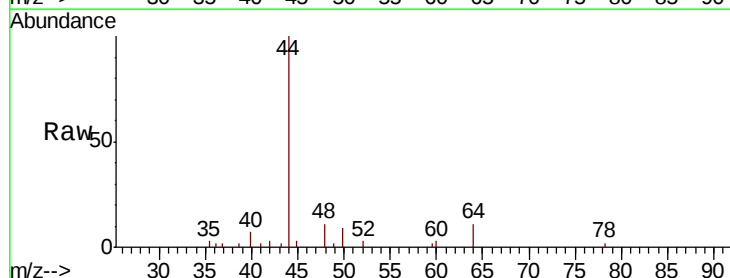
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 187763  
Ion Ratio Lower Upper  
168 100  
99 54.5 42.3 63.5



#3  
Chloromethane  
Concen: 0.202 ug/l  
RT: 1.32 min Scan# 28  
Delta R.T. -0.00 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Tgt Ion: 50 Resp: 477  
Ion Ratio Lower Upper  
50 100  
52 29.8 25.9 38.9





#5

Bromomethane

Concen: 0.207 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

Instrument :

MSVOA\_X

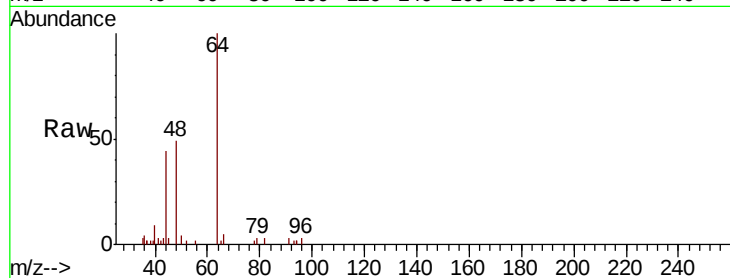
ClientSampleId :

Tot Ion: 94 Resp: 286

Ion Ratio Lower Upper

94 100

96 67.4 73.0 109.6#

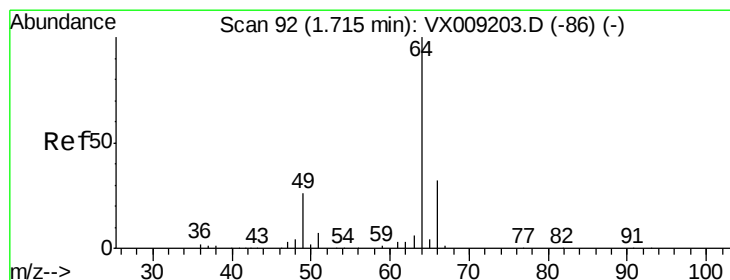
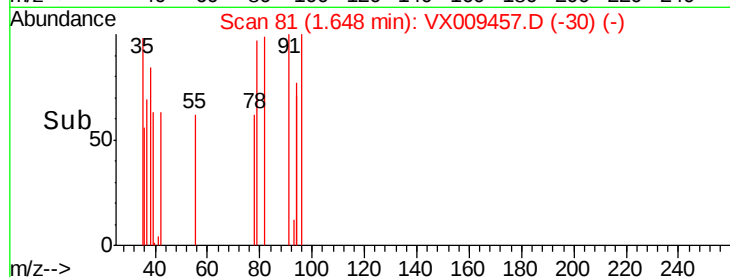
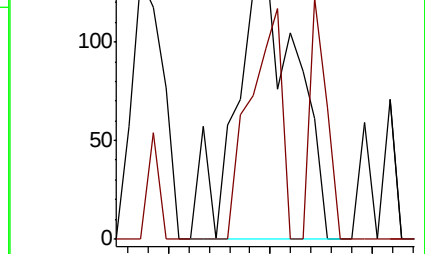


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1.60 1.65 1.70



#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.92 min Scan# 125

Delta R.T. 0.20 min

Lab File: VX009457.D

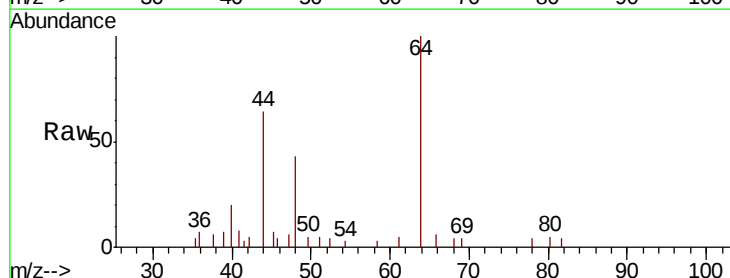
Acq: 10 May 2019 03:26

Tgt Ion: 64 Resp: 384

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#

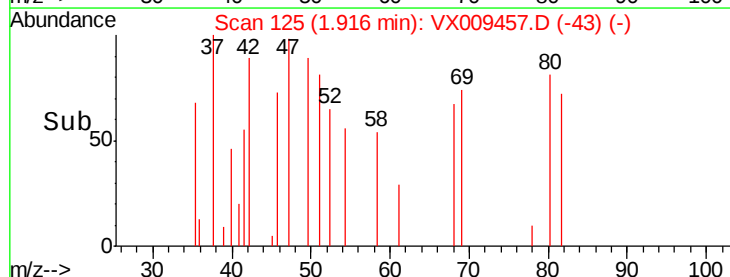
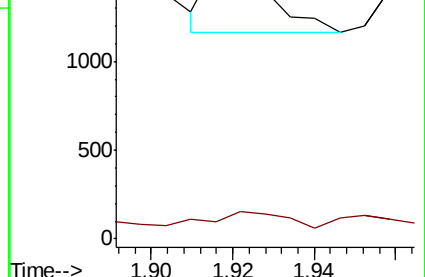


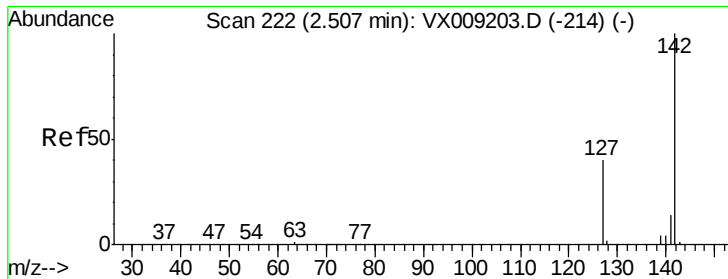
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.92

1.90 1.92 1.94

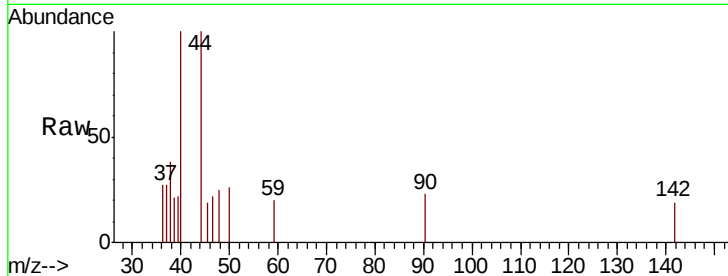




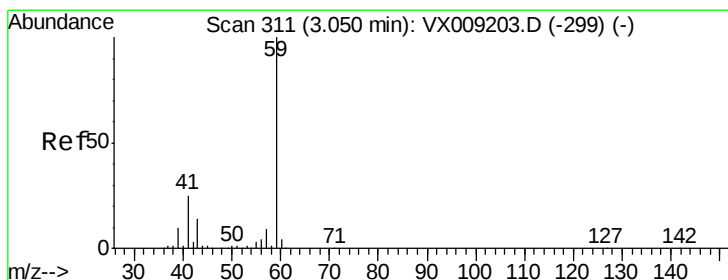
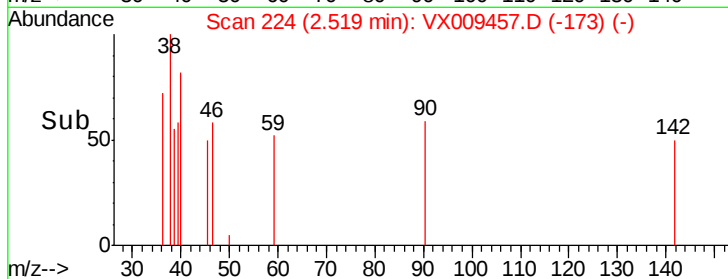
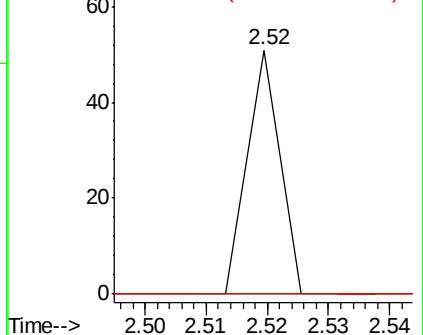
#10  
Methvl Iodide  
Concen: 4.602 ug/l  
RT: 2.52 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:142 Resp: 19  
Ion Ratio Lower Upper  
142 100  
127 0.0 32.7 49.1#  
141 0.0 11.5 17.3#

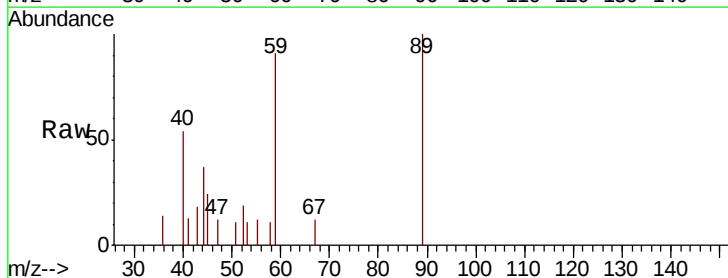


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

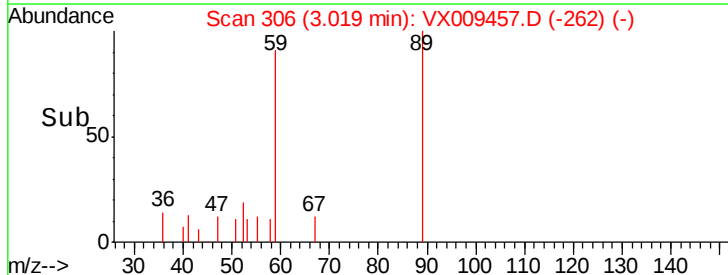
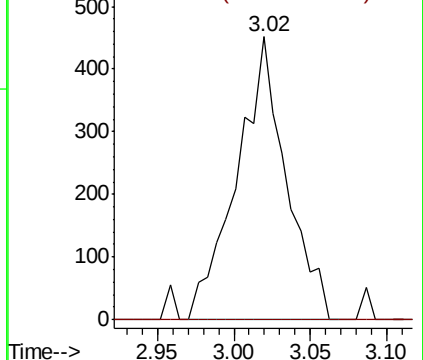


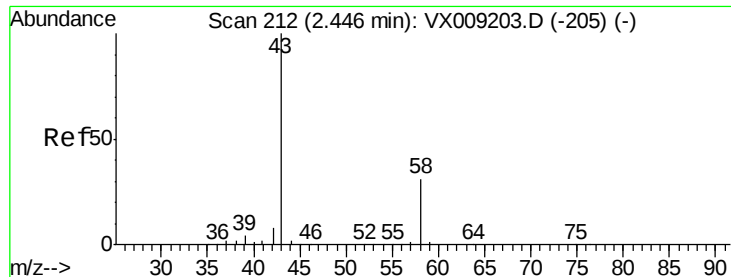
#11  
Tert butyl alcohol  
Concen: 1.714 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.03 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Tgt Ion: 59 Resp: 1017  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 0.636 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

Instrument :

MSVOA\_X

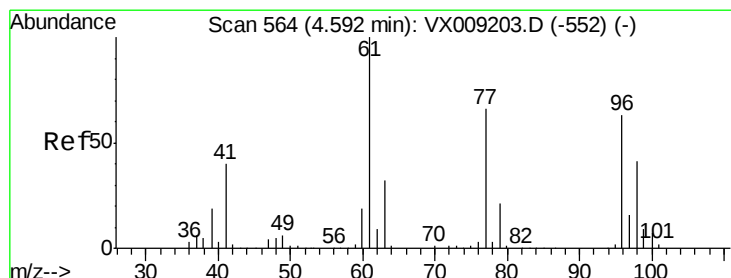
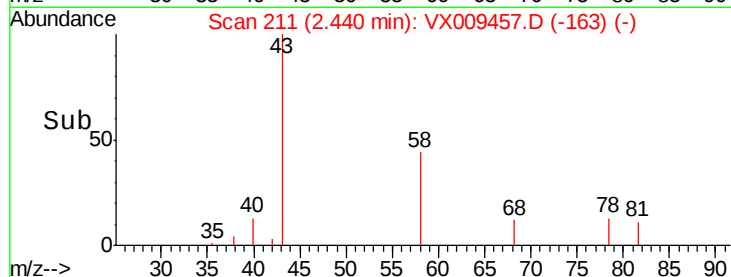
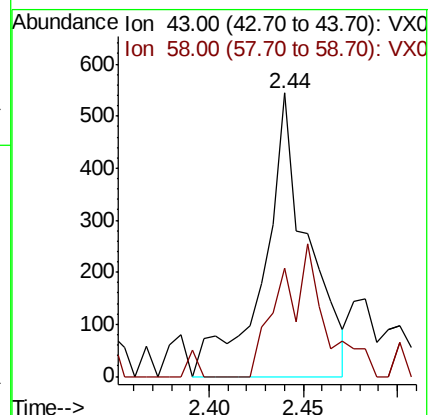
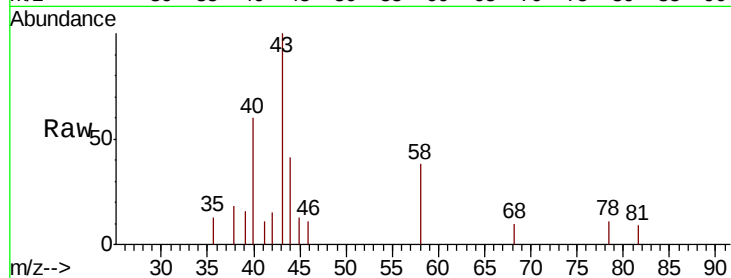
ClientSampled :

Tot Ion: 43 Resp: 876

Ion Ratio Lower Upper

43 100

58 29.0 24.9 37.3



#27

cis-1,2-Dichloroethene

Concen: 0.658 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

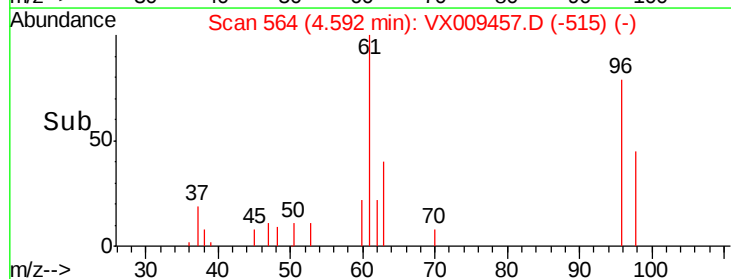
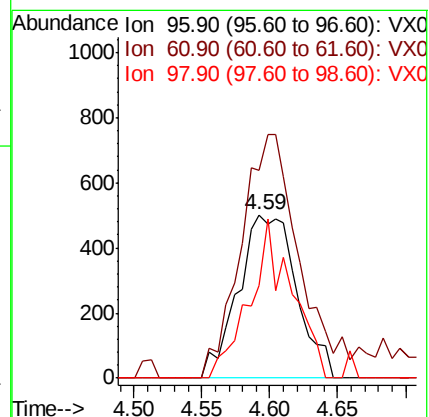
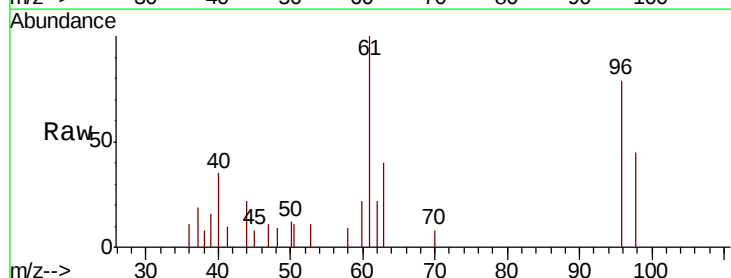
Tgt Ion: 96 Resp: 1501

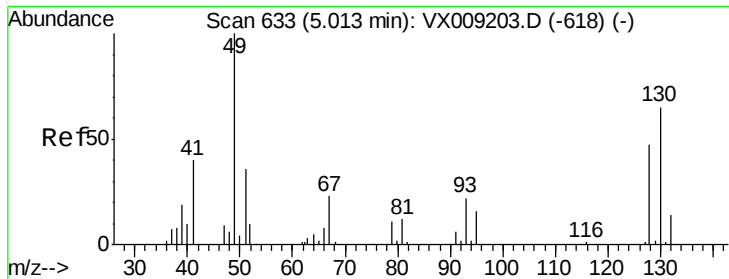
Ion Ratio Lower Upper

96 100

61 154.5 0.0 324.0

98 70.3 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 4.97 min Scan# 626

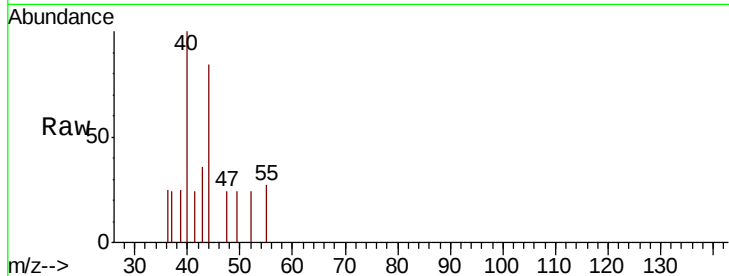
Delta R.T. -0.04 min

Lab File: VX009457.D

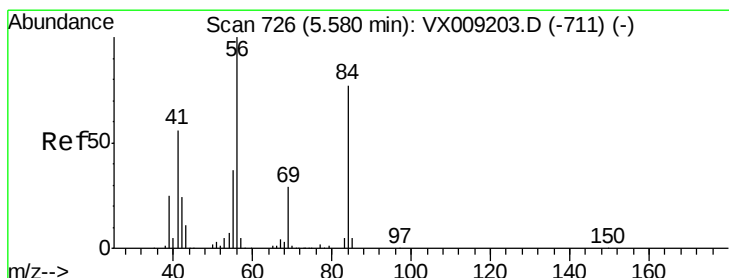
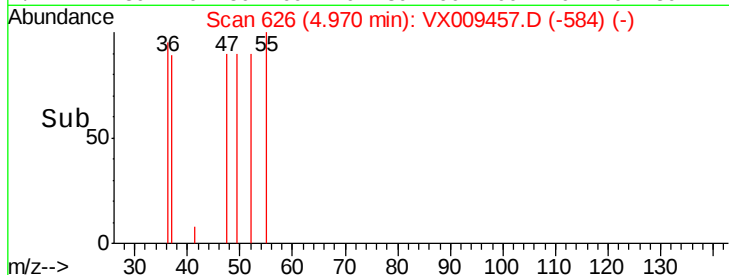
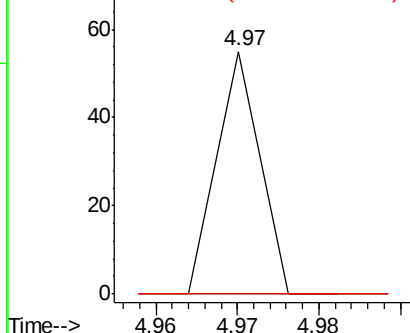
Acq: 10 May 2019 03:26

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 49 Resp: 20  
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: 1.065 ug/l

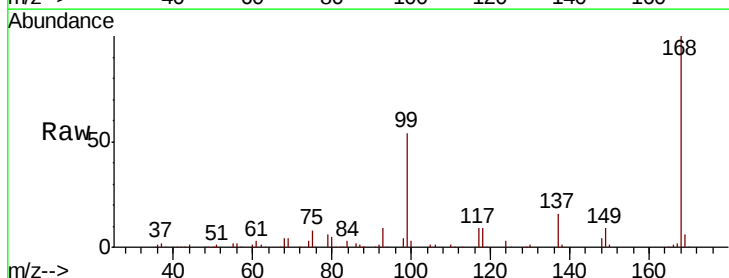
RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

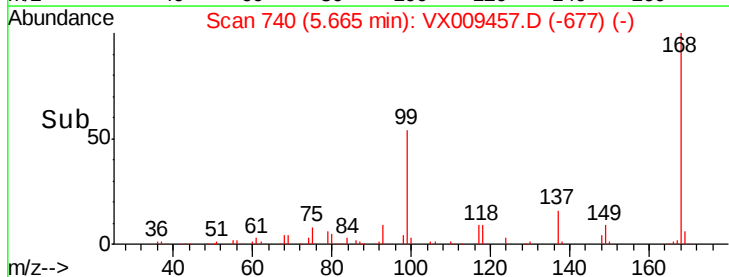
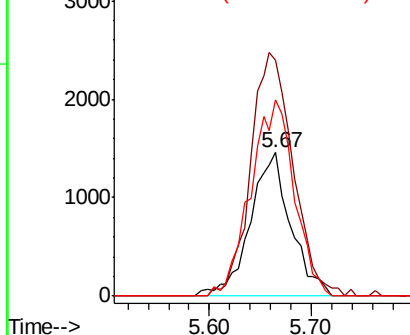
Lab File: VX009457.D

Acq: 10 May 2019 03:26

Tgt Ion: 56 Resp: 4036  
Ion Ratio Lower Upper  
56 100  
69 164.9 23.4 35.0#  
84 137.0 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: 48.514 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

Instrument :

MSVOA\_X

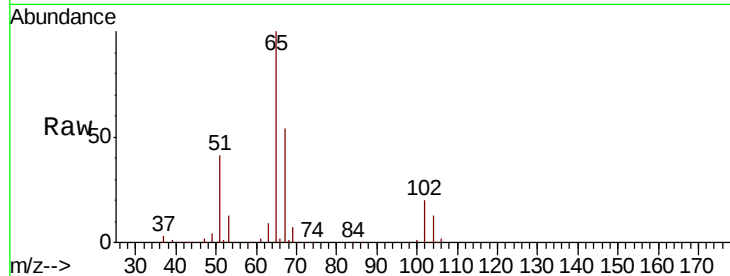
ClientSampled :

Tot Ion: 65 Resp: 124350

Ion Ratio Lower Upper

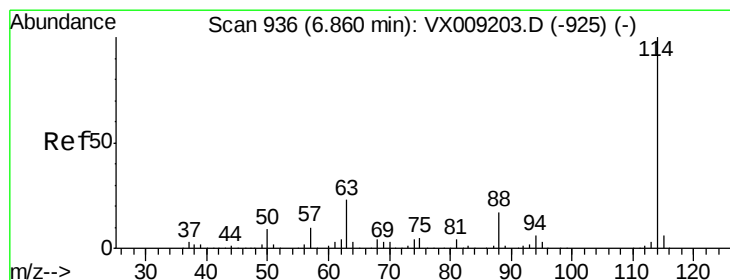
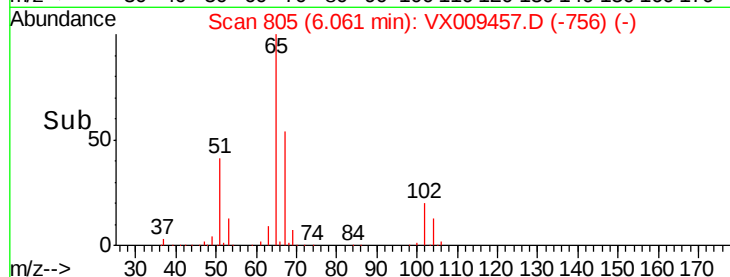
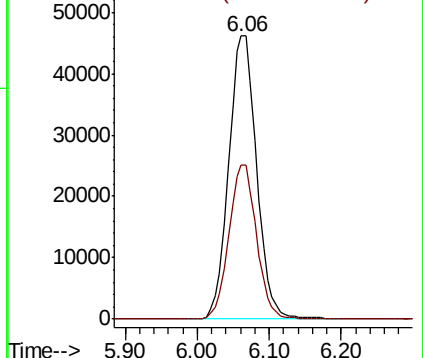
65 100

67 54.0 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: VX009457.D

Acq: 10 May 2019 03:26

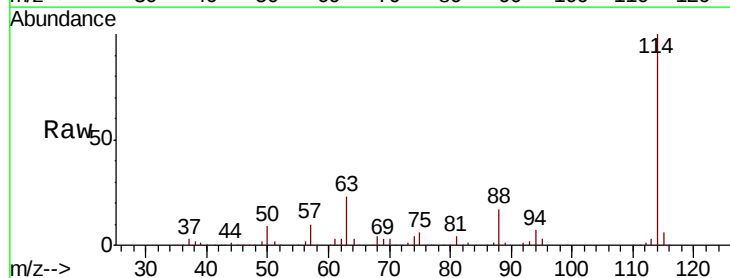
Tgt Ion: 114 Resp: 303239

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.6

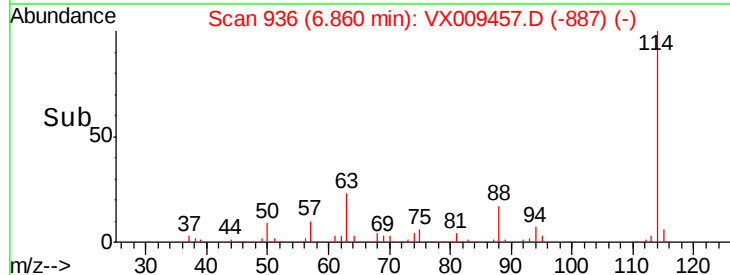
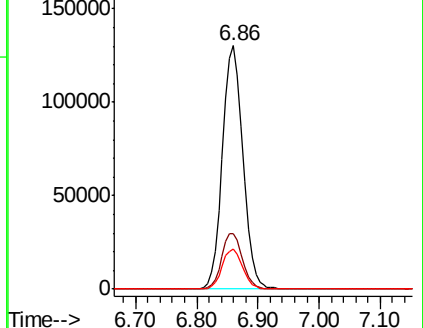
88 16.6 0.0 33.2

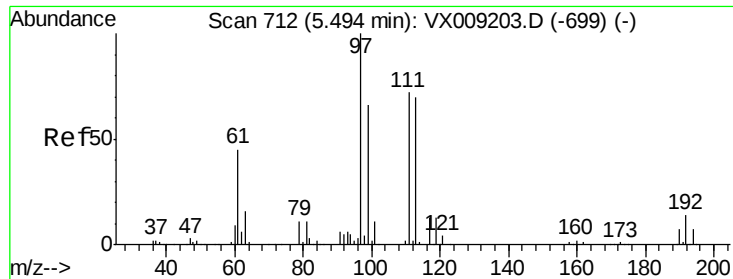


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

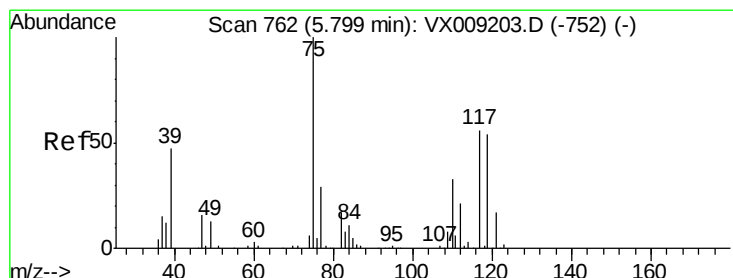
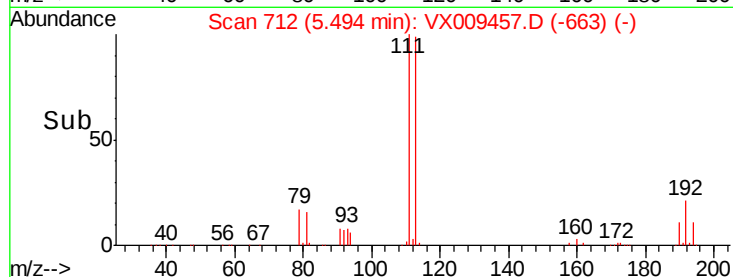
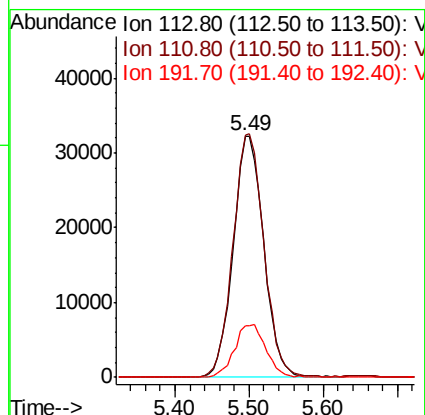
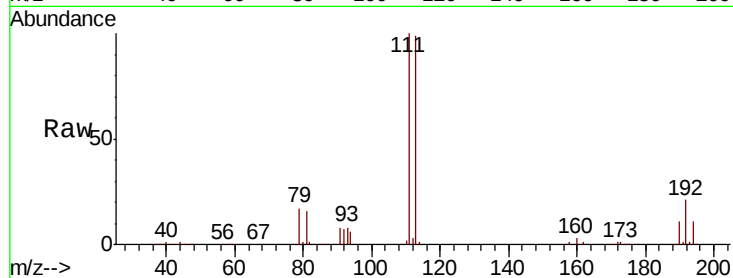




#35  
 Dibromofluoromethane  
 Concen: 48.840 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.00 min  
 Lab File: VX009457.D  
 Acq: 10 May 2019 03:26

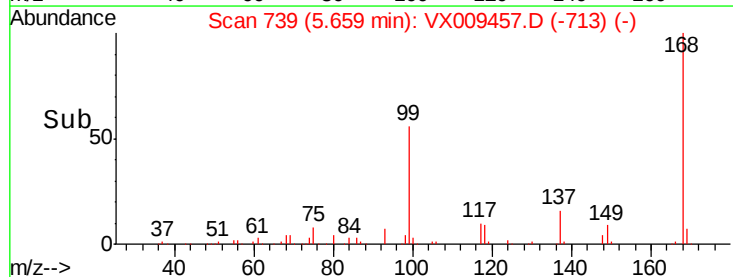
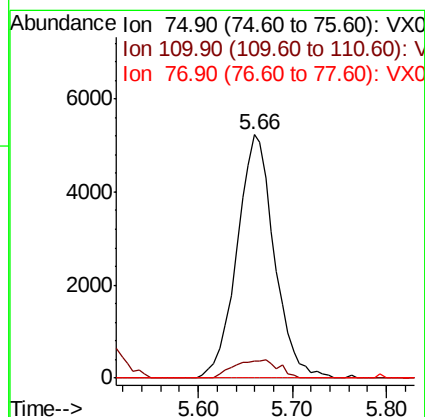
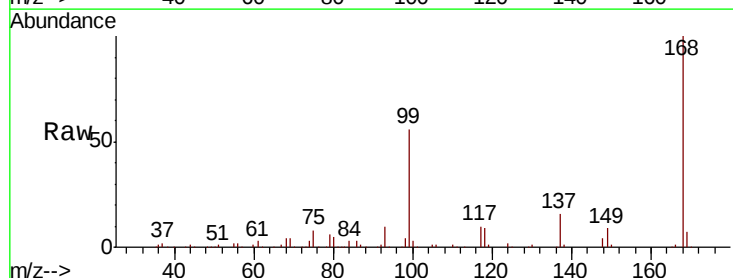
Instrument :  
 MSVOA\_X  
 ClientSampleId :

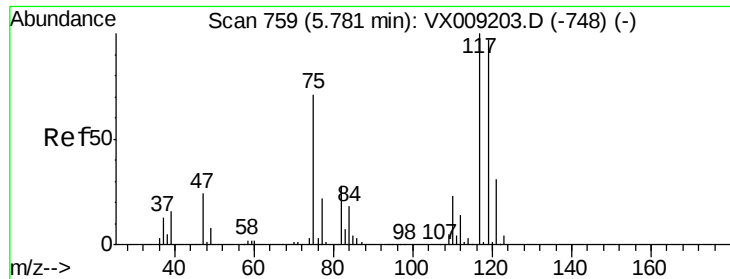
Tot Ion:113 Resp: 93102  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 82.8 124.2  
 192 22.4 17.0 25.6



#36  
 1,1-Dichloropropene  
 Concen: 5.122 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009457.D  
 Acq: 10 May 2019 03:26

Tgt Ion: 75 Resp: 14434  
 Ion Ratio Lower Upper  
 75 100  
 110 8.8 16.9 50.6#  
 77 0.0 24.8 37.2#

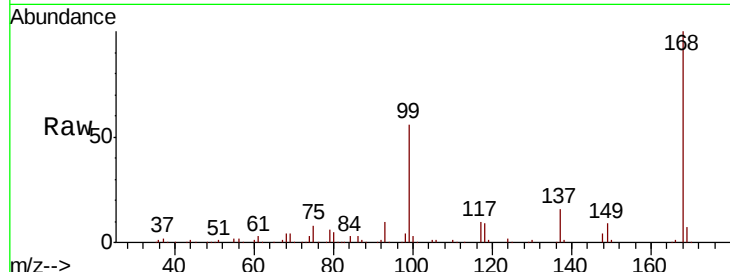




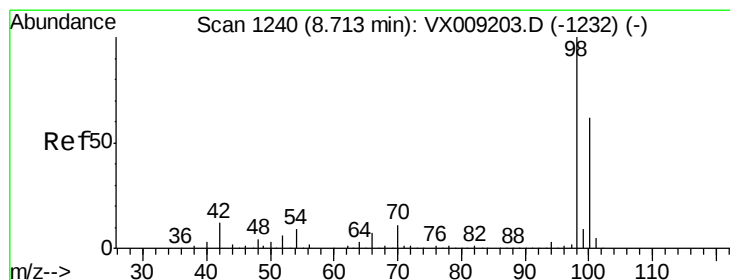
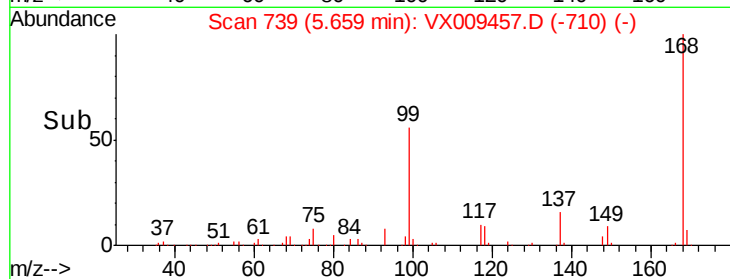
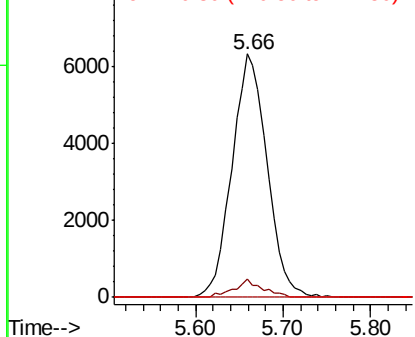
#38  
Carbon Tetrachloride  
Concen: 6.893 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.12 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 17648  
Ion Ratio Lower Upper  
117 100  
119 7.7 77.5 116.3#  
121 0.0 24.7 37.1#

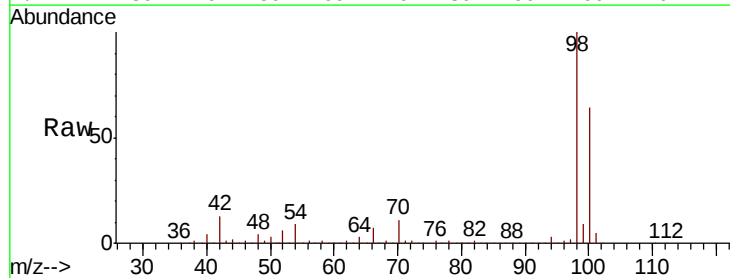


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

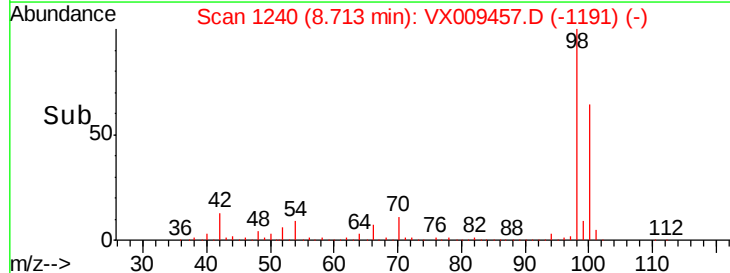
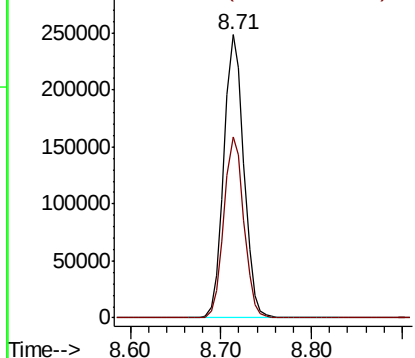


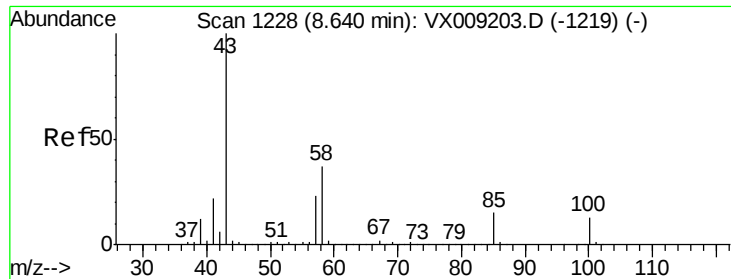
#50  
Toluene-d8  
Concen: 49.693 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Tgt Ion: 98 Resp: 382442  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.546 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

Instrument :

MSVOA\_X

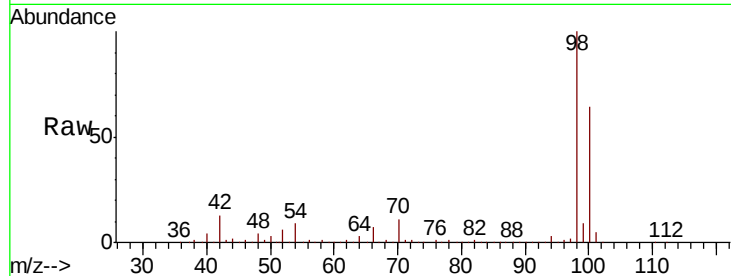
ClientSampled :

Tot Ion: 43 Resp: 2242

Ion Ratio Lower Upper

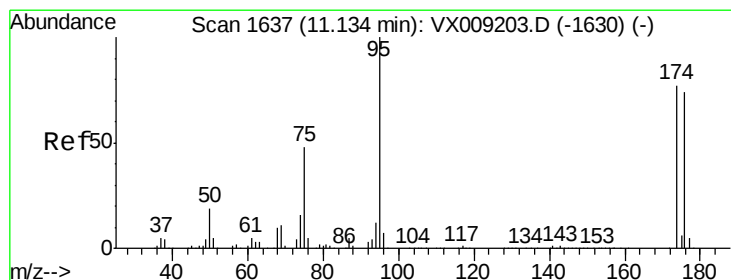
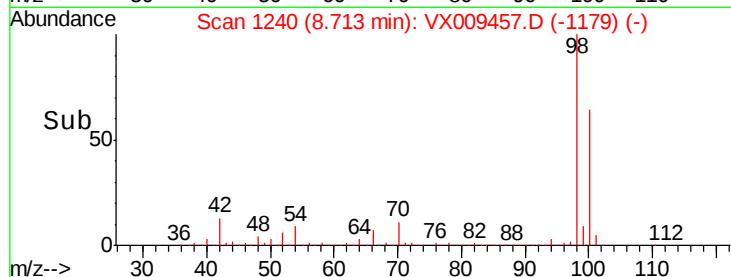
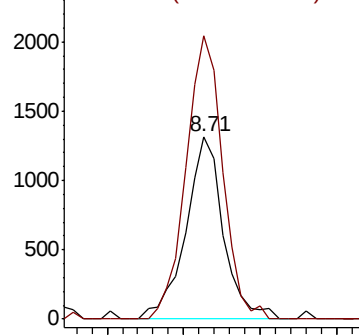
43 100

58 151.1 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.646 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

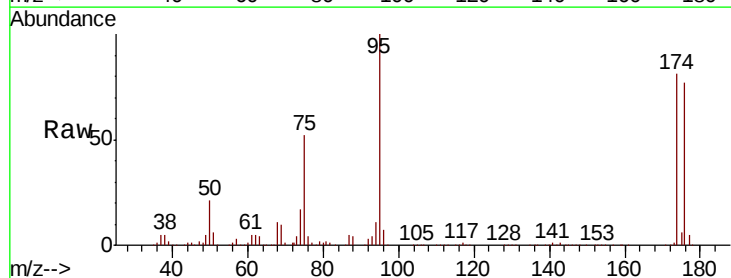
Tgt Ion: 95 Resp: 127647

Ion Ratio Lower Upper

95 100

174 82.5 0.0 161.6

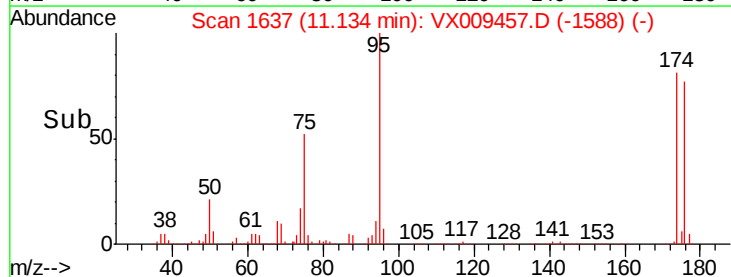
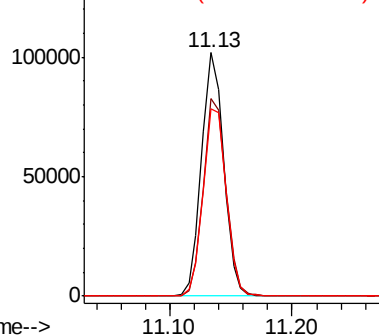
176 80.2 0.0 159.2

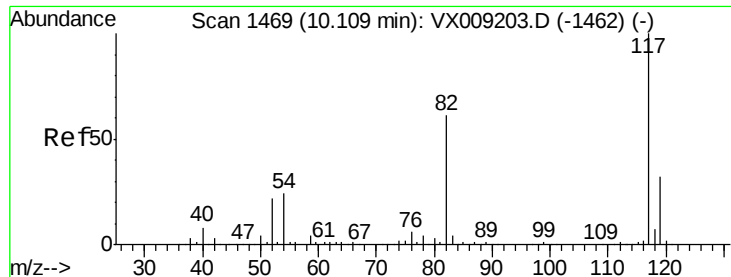


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

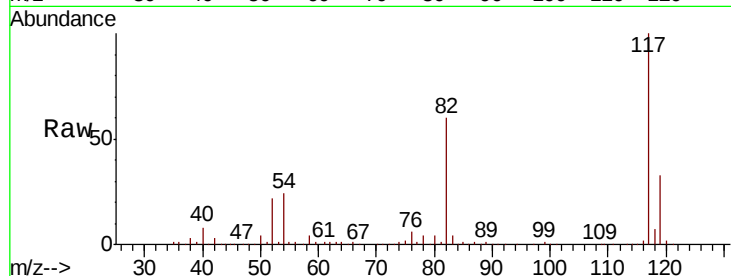




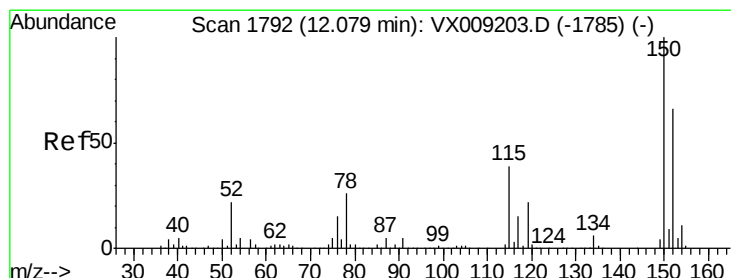
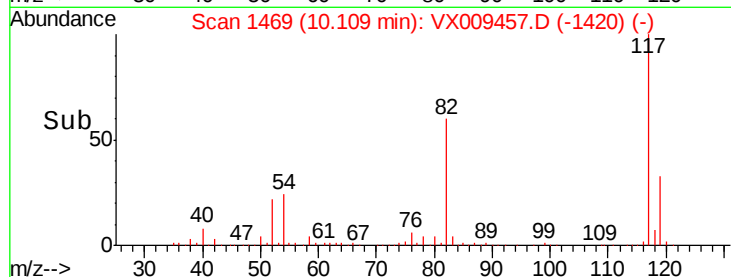
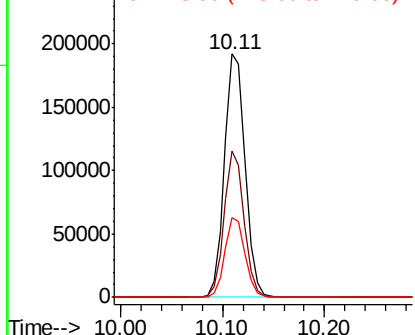
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:117 Resp: 269609  
Ion Ratio Lower Upper  
117 100  
82 60.0 48.8 73.2  
119 32.6 25.8 38.6

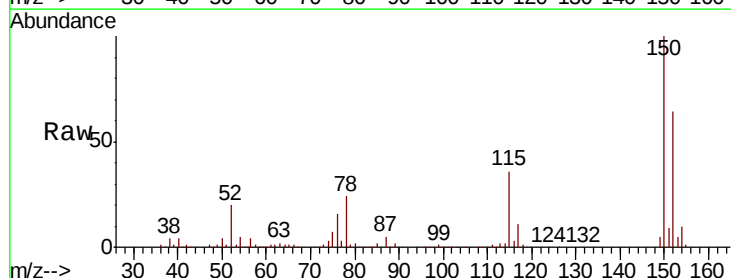


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

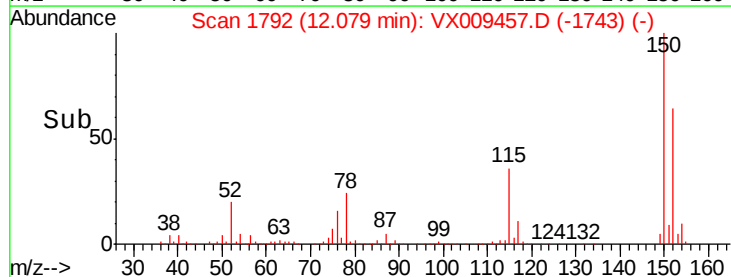
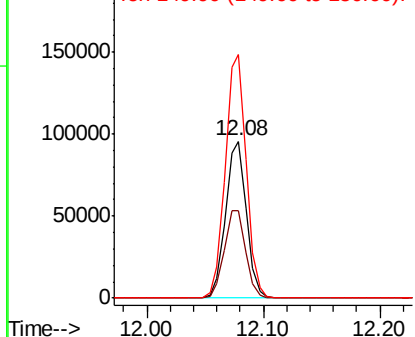


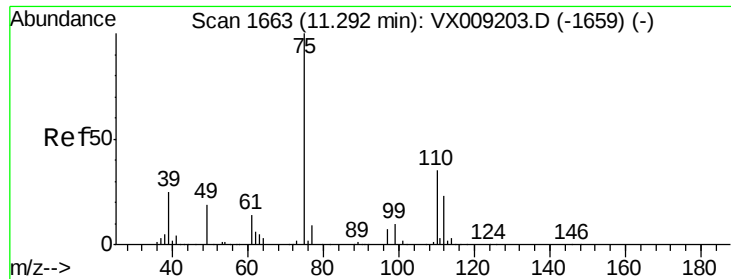
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX009457.D  
Acq: 10 May 2019 03:26

Tgt Ion:152 Resp: 117650  
Ion Ratio Lower Upper  
152 100  
115 57.5 41.2 123.6  
150 156.7 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: 23.918 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

Instrument :

MSVOA\_X

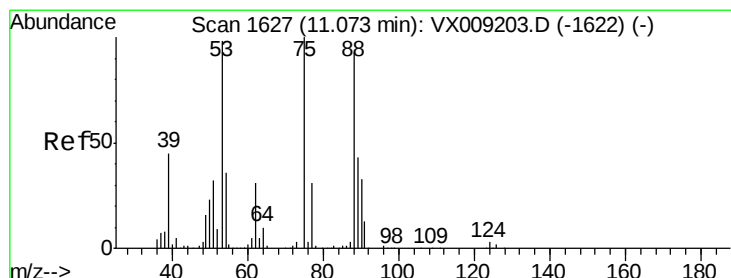
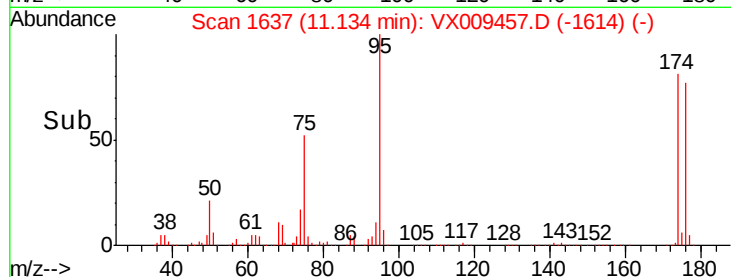
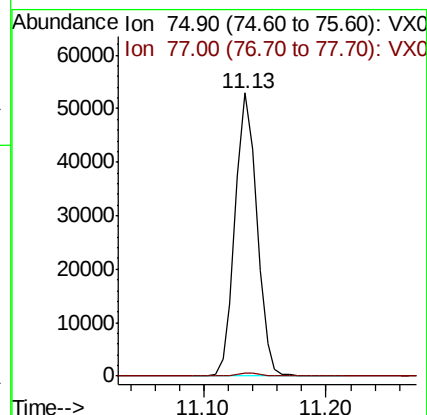
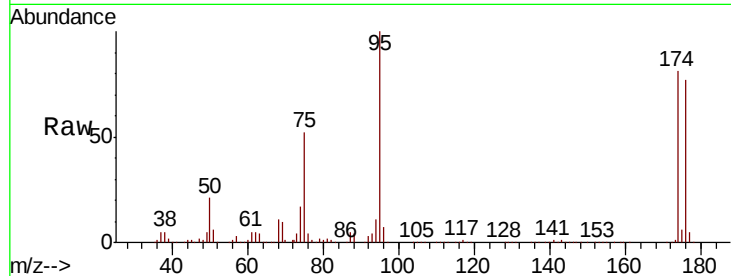
ClientSampleId :

Tot Ion: 75 Resp: 65274

Ion Ratio Lower Upper

75 100

77 1.2 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.198 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009457.D

Acq: 10 May 2019 03:26

Tgt Ion: 75 Resp: 65274

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.1 34.7 52.1#

