

Data File : VW011420.D  
Acq On : 22 Jul 2019 14:45  
Operator : SY/VA  
Sample : VSTDICV050  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VICV03

Quant Time: Jul 23 04:38:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072219S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 22 14:39:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 437244   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 389917   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 188192   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 158429   | 27.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.56% |
| 7) Chloroethane-d5             | 2.89   | 69    | 116391   | 27.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 109.48% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 344936   | 26.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 104.32% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 132173   | 53.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 106.34% |
| 24) Chloroform-d               | 7.65   | 84    | 300428   | 26.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 107.32% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 179388   | 26.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.76% |
| 29) Benzene-d6                 | 8.27   | 84    | 619000   | 26.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 106.16% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 202175   | 26.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.04% |
| 37) Toluene-d8                 | 10.32  | 98    | 556650   | 26.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 106.52% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 90232    | 27.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 110.56% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 91282    | 55.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.44% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 162300   | 26.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 107.52% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 188529   | 26.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 106.72% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 148400 | 27.823 ug/L | 97     |
| 3) Chloromethane               | 2.21 | 50  | 151990 | 23.486 ug/L | 100    |
| 5) Vinyl chloride              | 2.36 | 62  | 183338 | 24.055 ug/L | 100    |
| 6) Bromomethane                | 2.78 | 94  | 91822  | 24.955 ug/L | 99     |
| 8) Chloroethane                | 2.92 | 64  | 100949 | 24.873 ug/L | 96     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 80428  | 22.187 ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 139857 | 24.040 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 138768 | 23.894 ug/L | 88     |
| 13) Acetone                    | 4.12 | 43  | 126410 | 48.070 ug/L | 98     |
| 14) Carbon disulfide           | 4.39 | 76  | 455145 | 24.171 ug/L | 99     |
| 15) Methyl Acetate             | 4.67 | 43  | 101545 | 25.148 ug/L | 99     |
| 16) Methylene chloride         | 4.92 | 84  | 149389 | 23.471 ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 234178 | 25.505 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 143558 | 23.970 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 290136 | 24.389 ug/L | 99     |
| 21) 2-Butanone                 | 7.17 | 43  | 158372 | 46.862 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 152812 | 24.086 ug/L | 100    |

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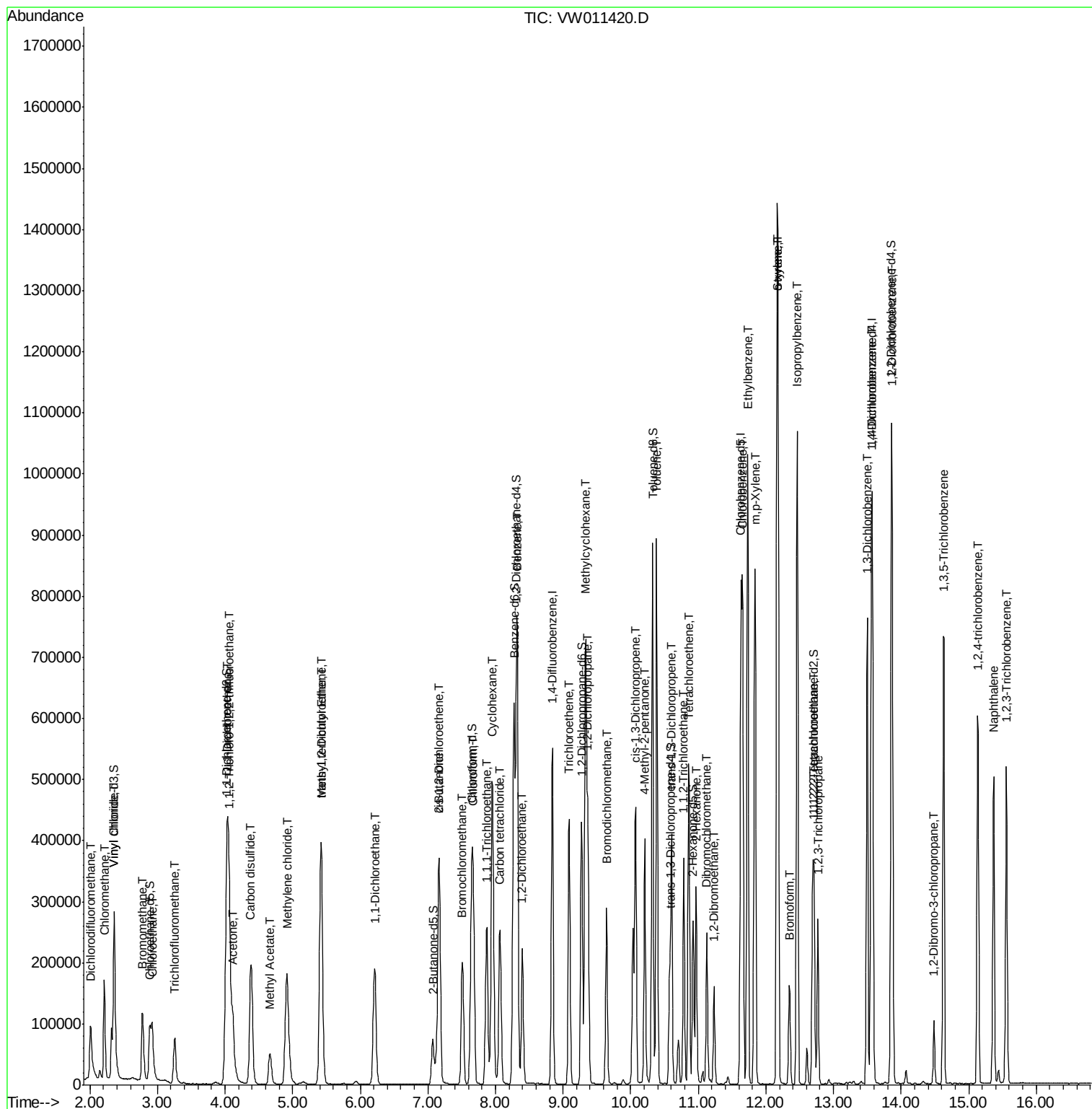
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 66099    | 24.928 | ug/L  | 98       |
| 25) Chloroform                 | 7.67  | 83   | 262461   | 23.951 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 198251   | 24.822 | ug/L  | 100      |
| 30) Cyclohexane                | 7.96  | 56   | 302728   | 23.835 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 207659   | 23.925 | ug/L  | 100      |
| 32) Carbon tetrachloride       | 8.07  | 117  | 193821   | 24.029 | ug/L  | 99       |
| 34) Benzene                    | 8.32  | 78   | 610121   | 24.105 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 152891   | 23.766 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 279258   | 23.872 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 164183   | 24.144 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.64  | 83   | 193722   | 24.365 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 255294   | 24.989 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 286354   | 49.188 | ug/L  | 99       |
| 44) Toluene                    | 10.38 | 91   | 629778   | 24.258 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 206451   | 24.589 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 111941   | 24.592 | ug/L  | 96       |
| 47) Tetrachloroethene          | 10.86 | 164  | 115660   | 23.434 | ug/L  | 96       |
| 49) 2-Hexanone                 | 10.97 | 43   | 215473   | 49.034 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 126142   | 25.035 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 109981   | 24.983 | ug/L  | 100      |
| 52) Chlorobenzene              | 11.66 | 112  | 378908   | 24.201 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 704916   | 24.125 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 258767   | 24.182 | ug/L  | 99       |
| 55) o-xylene                   | 12.16 | 106  | 246898   | 24.480 | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 423612   | 24.967 | ug/L  | 100      |
| 57) Isopropylbenzene           | 12.46 | 105  | 667014   | 24.280 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 144612   | 24.457 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 111091   | 24.590 | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 72557    | 24.359 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 292339   | 24.531 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 293324   | 24.233 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 268418   | 24.479 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 25860    | 24.742 | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 228101   | 25.091 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 193045   | 25.622 | ug/L  | 99       |
| 69) Naphthalene                | 15.37 | 128  | 409643   | 26.710 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 175297   | 25.682 | ug/L  | 100      |

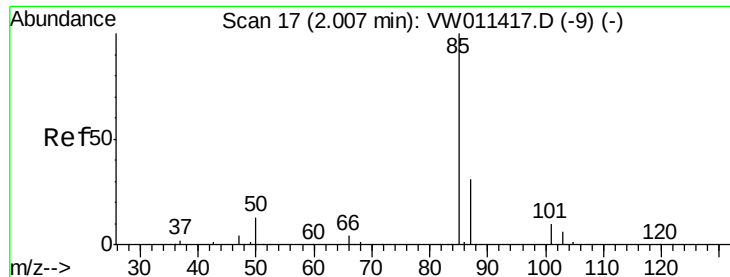
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 27.823 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampled :

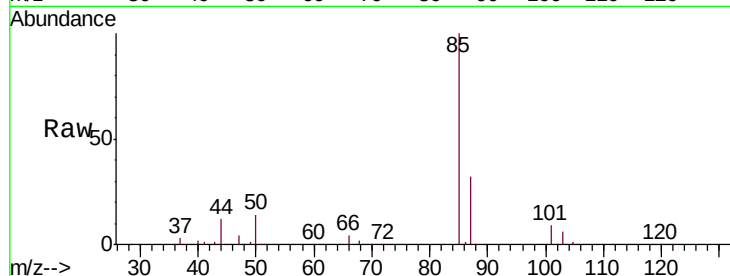
VICV03

Tgt Ion: 85 Resp: 148400

Ion Ratio Lower Upper

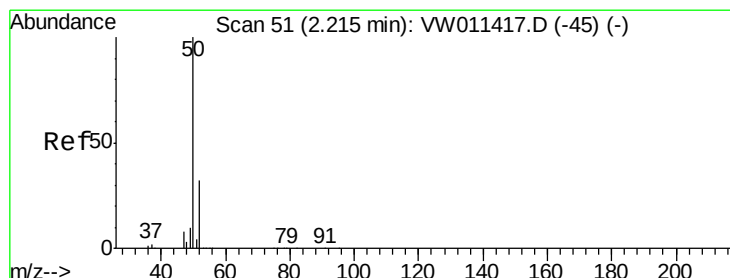
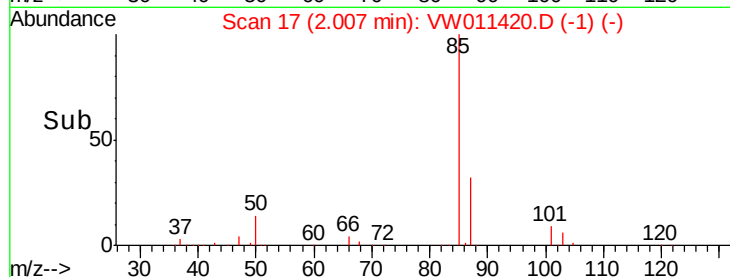
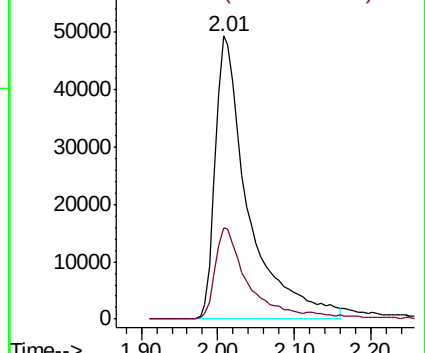
85 100

87 30.9 20.6 38.2



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.486 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW011420.D

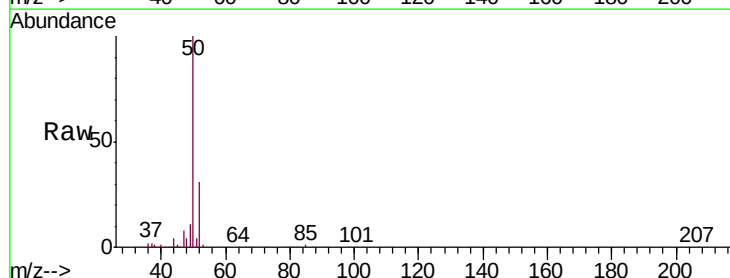
Acq: 22 Jul 2019 14:45

Tgt Ion: 50 Resp: 151990

Ion Ratio Lower Upper

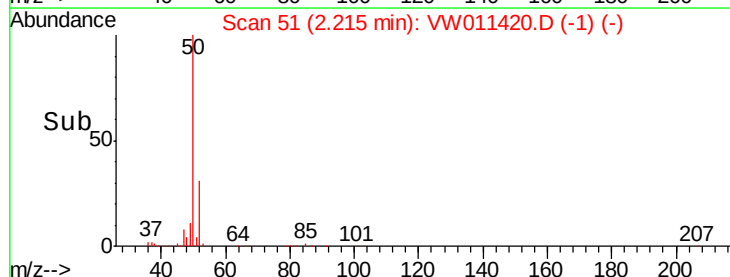
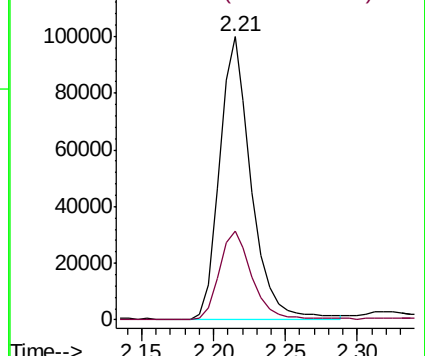
50 100

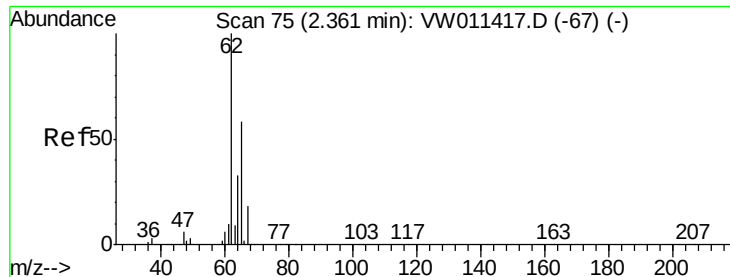
52 31.5 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.055 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

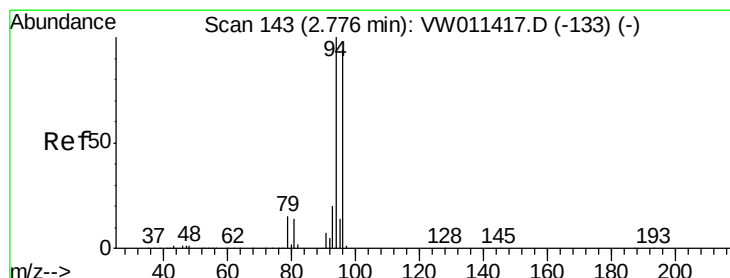
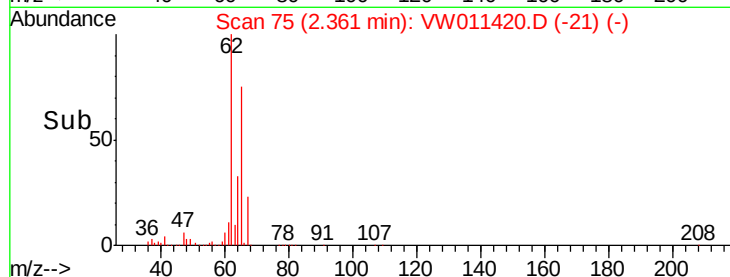
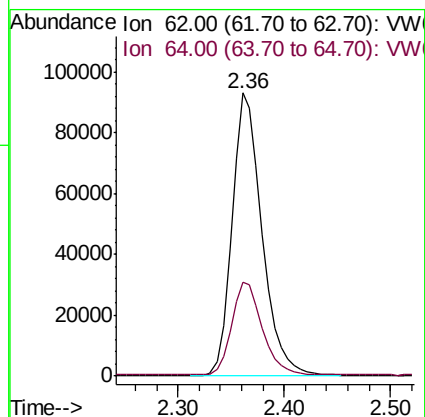
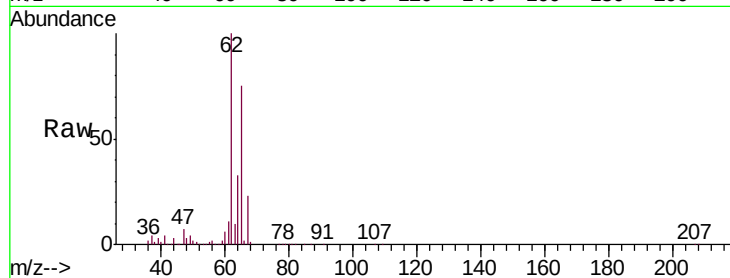
VICV03

Tgt Ion: 62 Resp: 183338

Ion Ratio Lower Upper

62 100

64 33.2 23.3 43.3



#6

Bromomethane

Concen: 24.955 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW011420.D

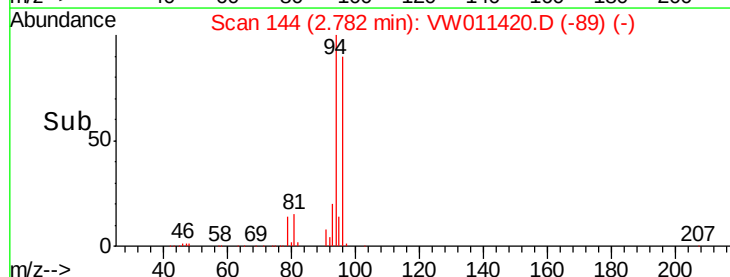
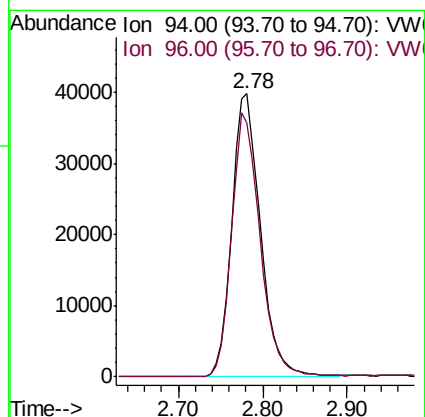
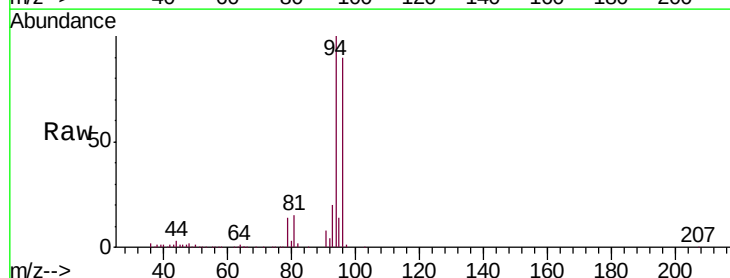
Acq: 22 Jul 2019 14:45

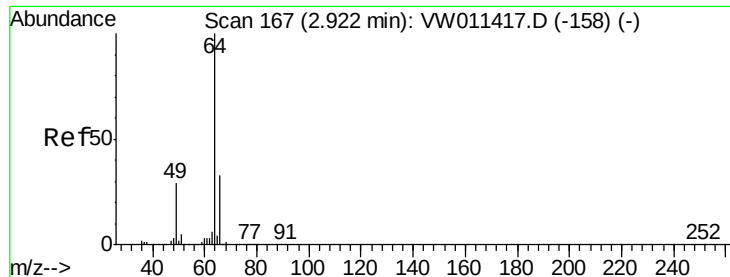
Tgt Ion: 94 Resp: 91822

Ion Ratio Lower Upper

94 100

96 92.8 9.4 178.8





#8

Chloroethane

Concen: 24.873 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

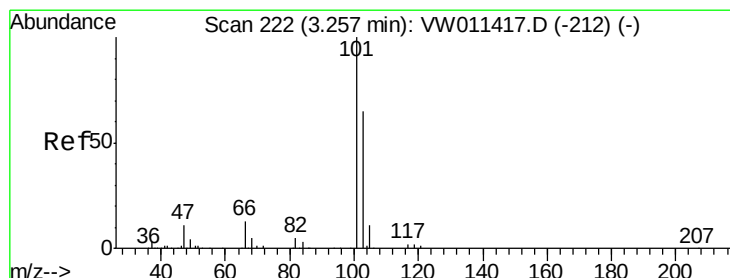
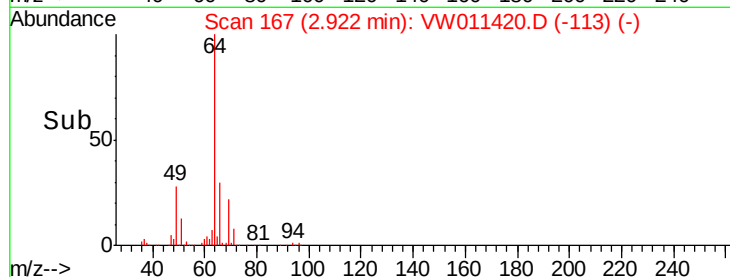
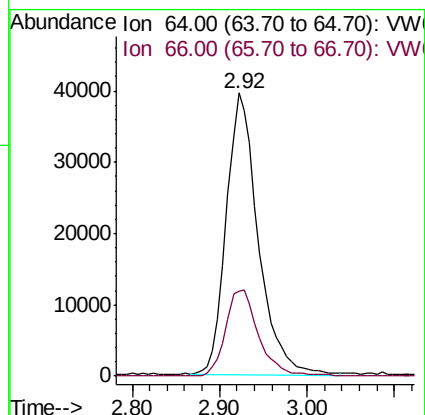
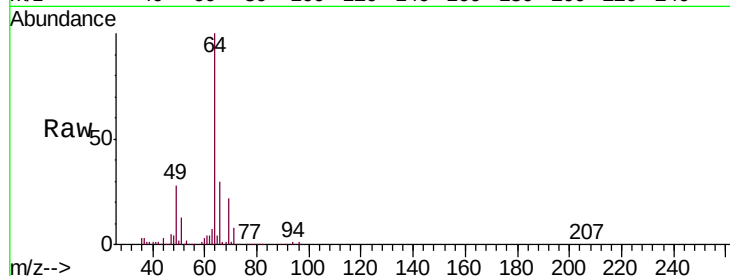
VICV03

Tgt Ion: 64 Resp: 100949

Ion Ratio Lower Upper

64 100

66 30.1 22.7 42.3



#9

Trichlorofluoromethane

Concen: 22.187 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW011420.D

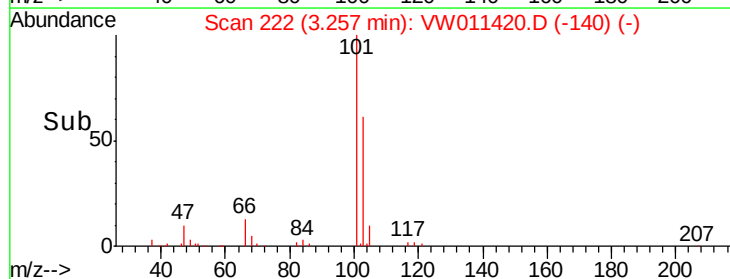
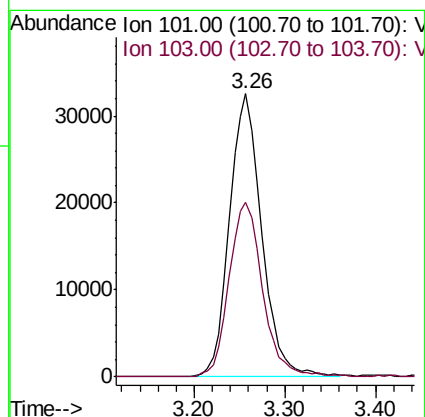
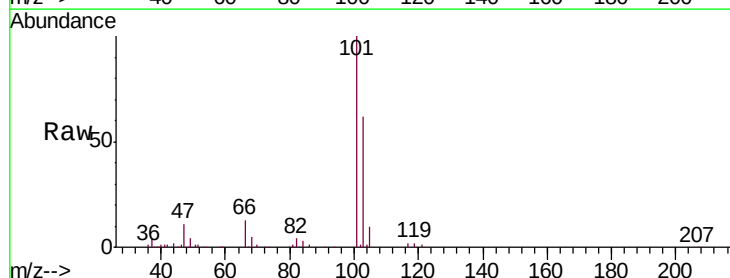
Acq: 22 Jul 2019 14:45

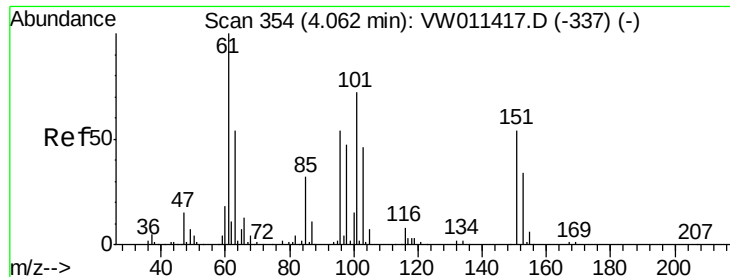
Tgt Ion: 101 Resp: 80428

Ion Ratio Lower Upper

101 100

103 63.5 45.2 84.0





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 24.040 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampled :

VICV03

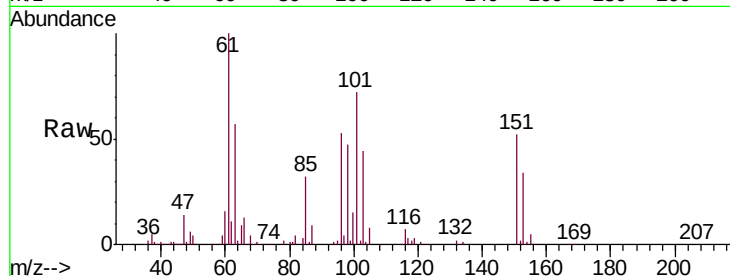
Tgt Ion: 101 Resp: 139857

Ion Ratio Lower Upper

101 100

85 45.1 35.2 52.8

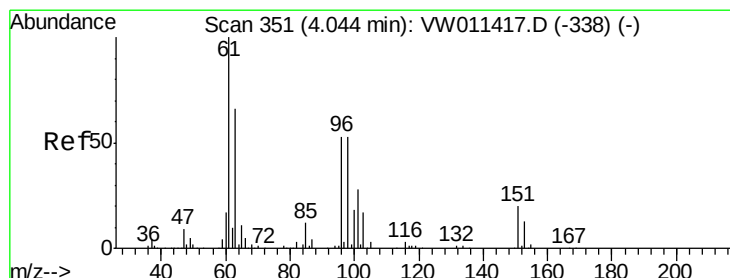
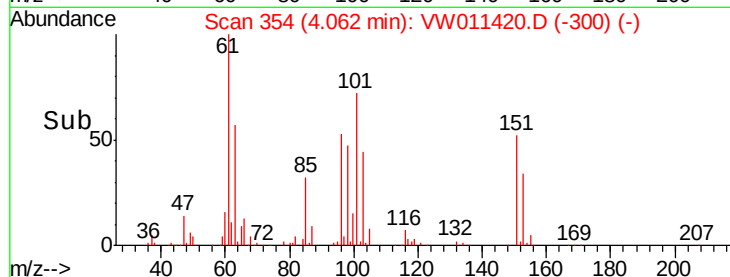
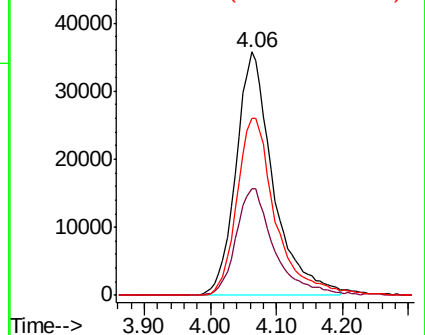
151 75.3 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.894 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

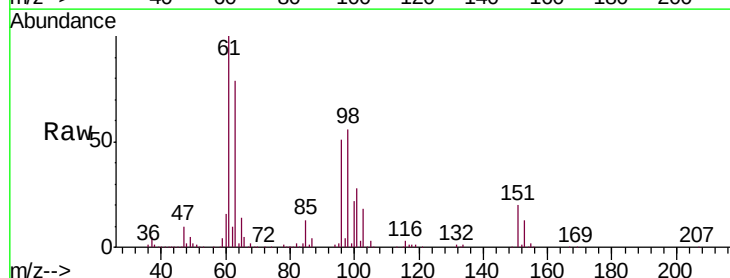
Tgt Ion: 96 Resp: 138768

Ion Ratio Lower Upper

96 100

61 196.5 133.2 247.4

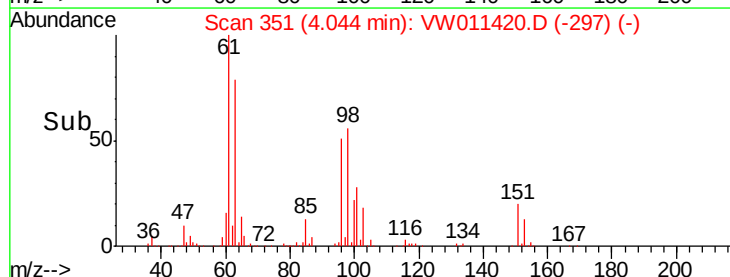
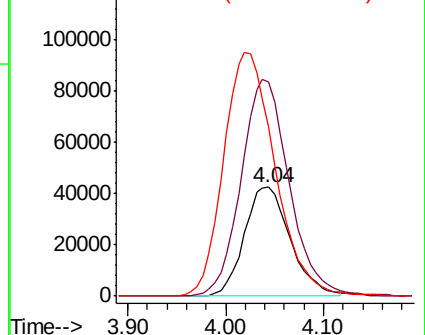
63 155.7 89.9 166.9

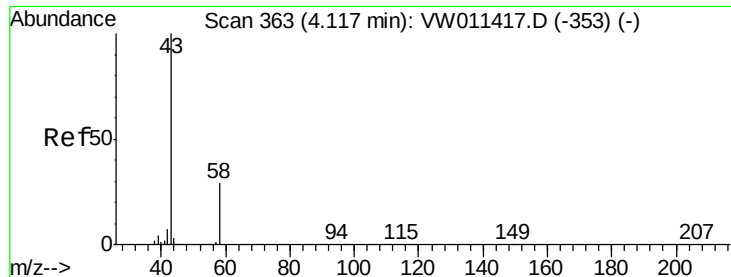


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 48.070 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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MSVOA\_W

ClientSampleId :

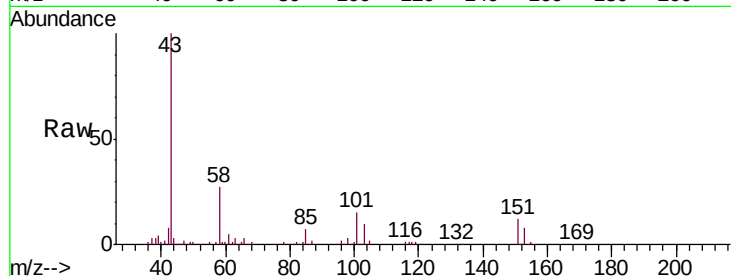
VICV03

Tgt Ion: 43 Resp: 126410

Ion Ratio Lower Upper

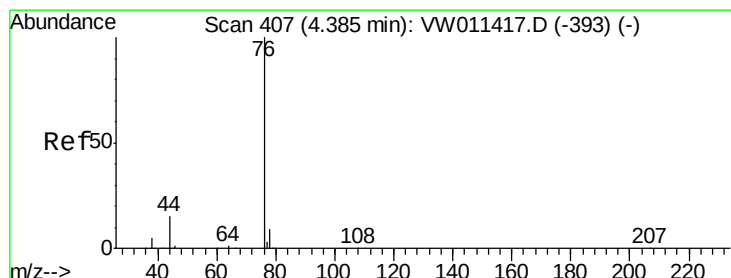
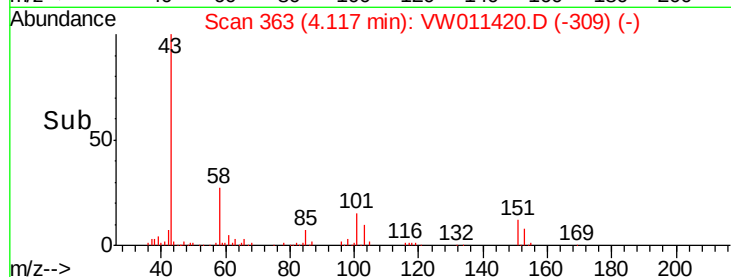
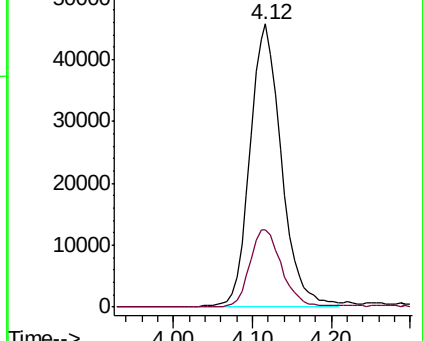
43 100

58 27.6 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 24.171 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW011420.D

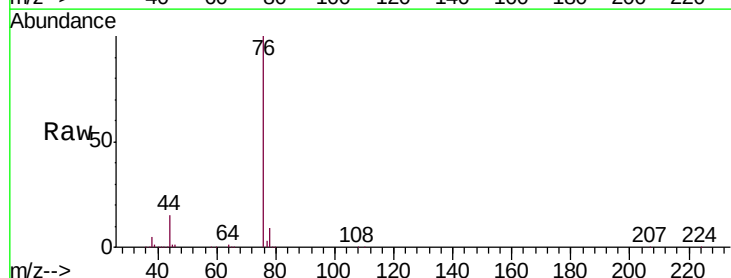
Acq: 22 Jul 2019 14:45

Tgt Ion: 76 Resp: 455145

Ion Ratio Lower Upper

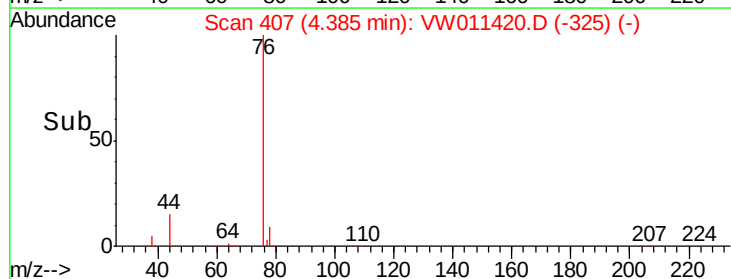
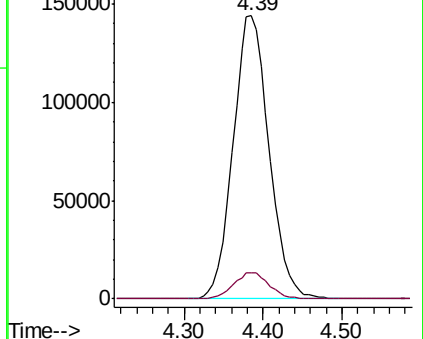
76 100

78 9.3 7.3 10.9

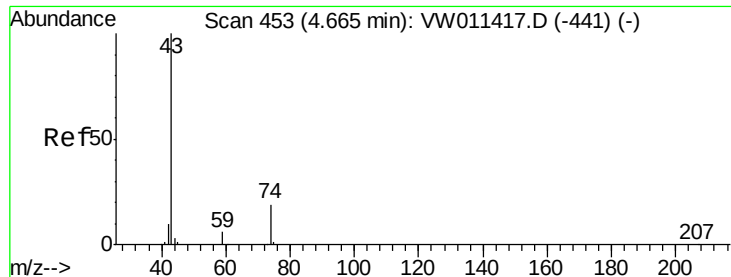


Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW







#15

Methyl Acetate

Concen: 25.148 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

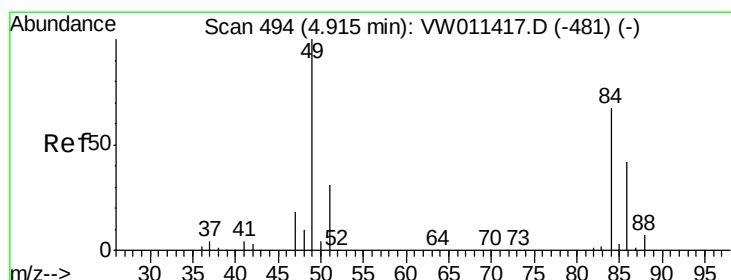
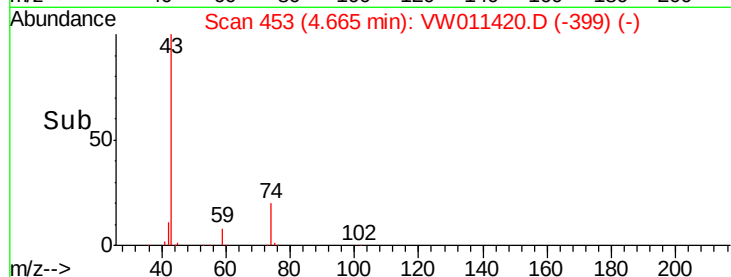
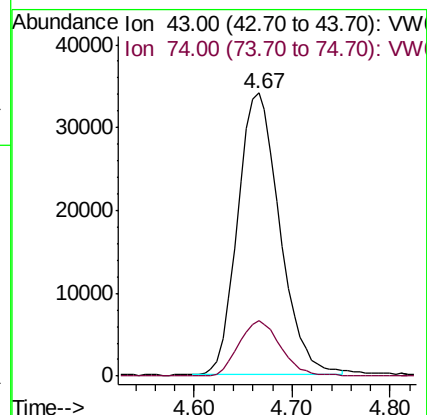
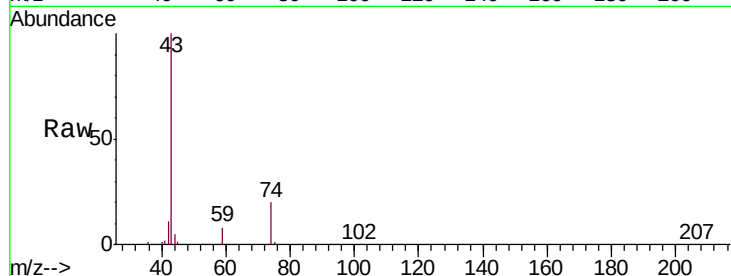
VICV03

Tgt Ion: 43 Resp: 101545

Ion Ratio Lower Upper

43 100

74 19.7 15.2 22.8



#16

Methylene chloride

Concen: 23.471 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

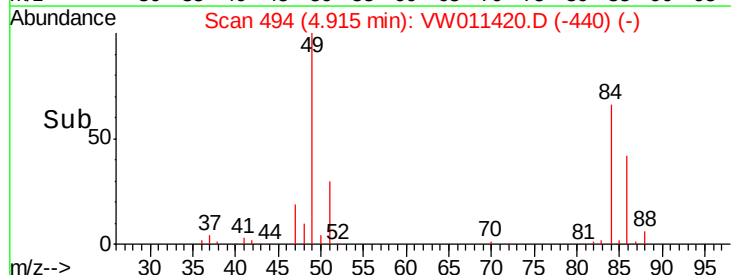
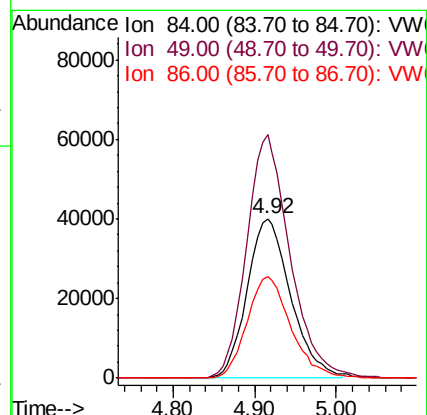
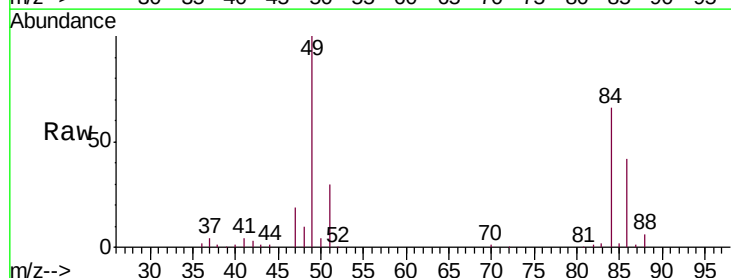
Tgt Ion: 84 Resp: 149389

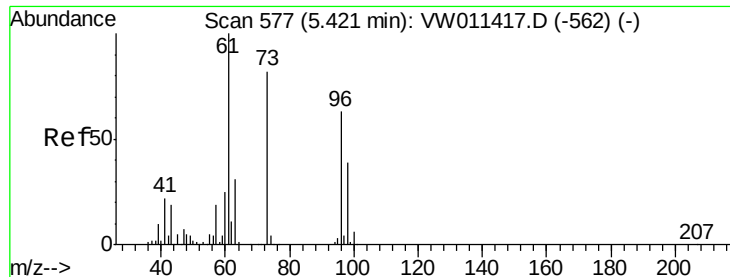
Ion Ratio Lower Upper

84 100

49 152.5 104.0 193.2

86 63.7 44.0 81.8

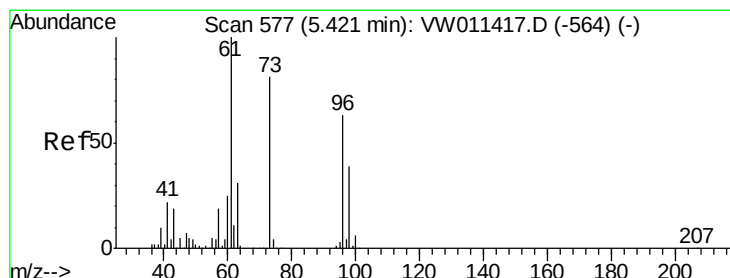
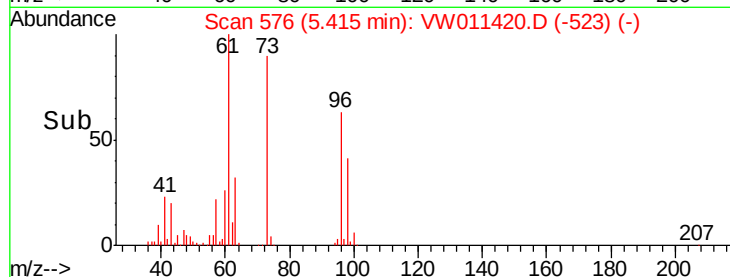
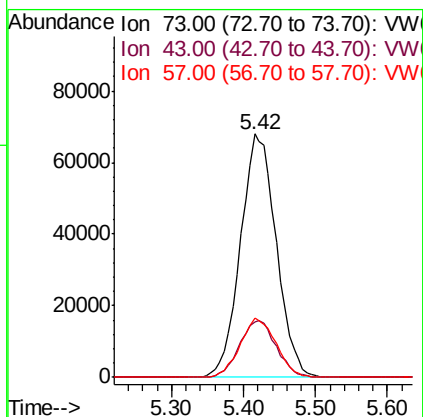
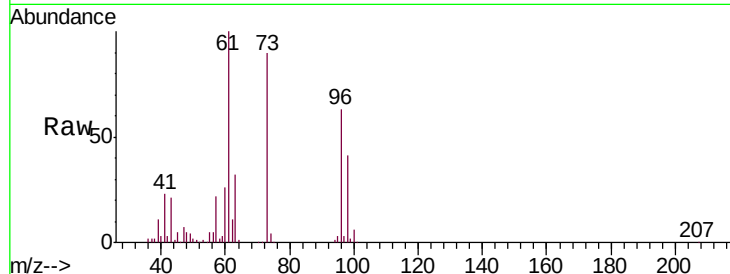




#17  
Methyl tert-butyl Ether  
Concen: 25.505 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW011420.D  
Acq: 22 Jul 2019 14:45

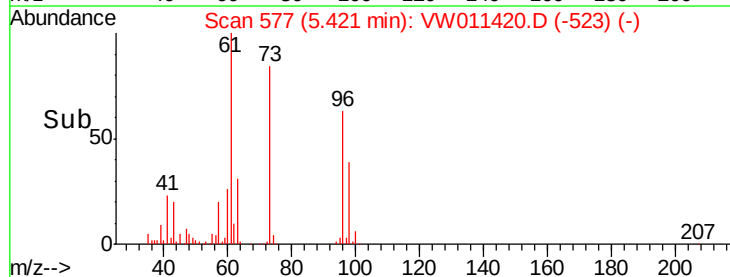
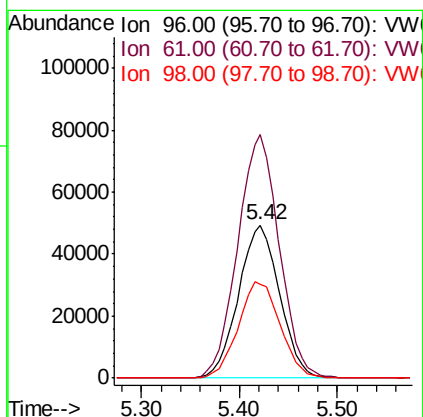
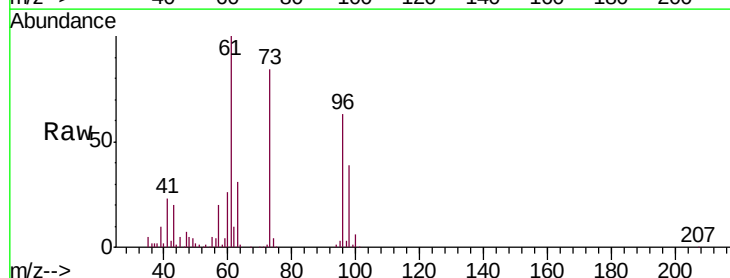
Instrument :  
MSVOA\_W  
ClientSampled :  
VICV03

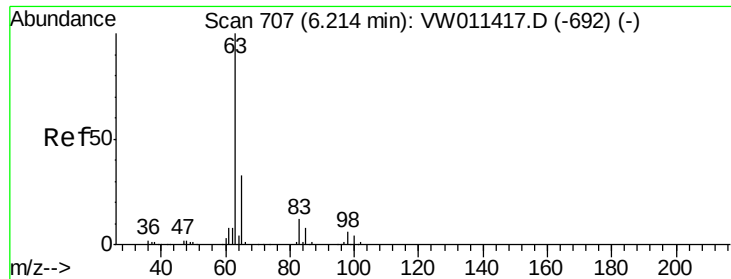
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 24.0  | 19.0  | 28.4  |
| 57      | 24.2  | 19.8  | 29.6  |



#18  
trans-1,2-Dichloroethene  
Concen: 23.970 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW011420.D  
Acq: 22 Jul 2019 14:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 159.0 | 111.7 | 207.5 |
| 98      | 61.6  | 43.4  | 80.6  |

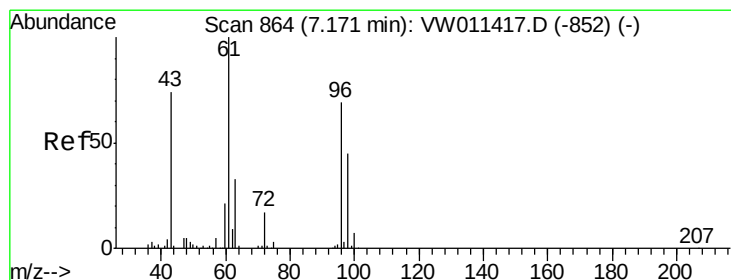
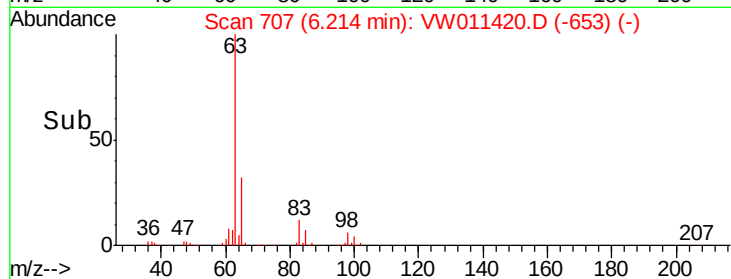
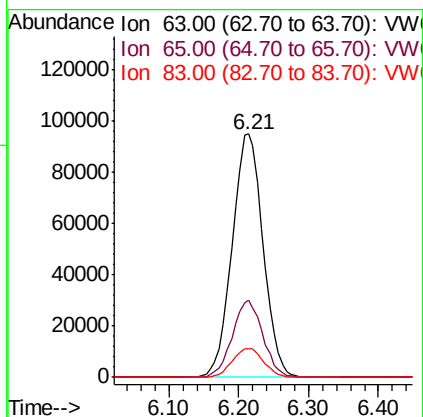
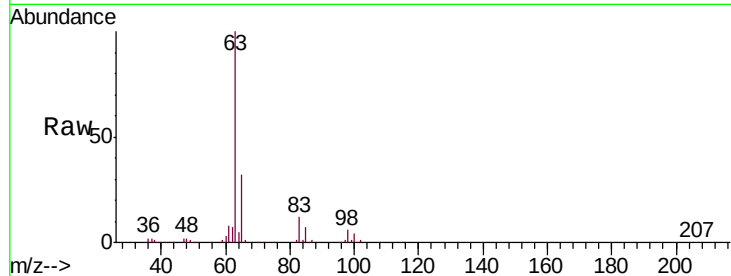




#19  
 1,1-Dichloroethane  
 Concen: 24.389 ug/L  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

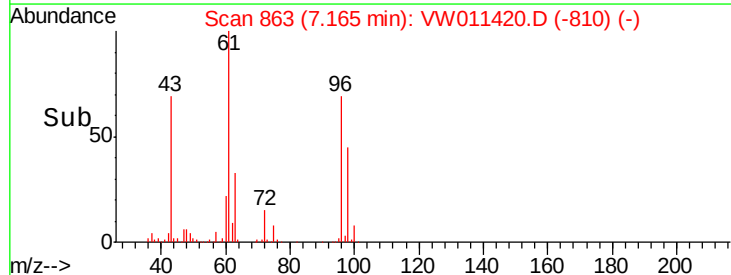
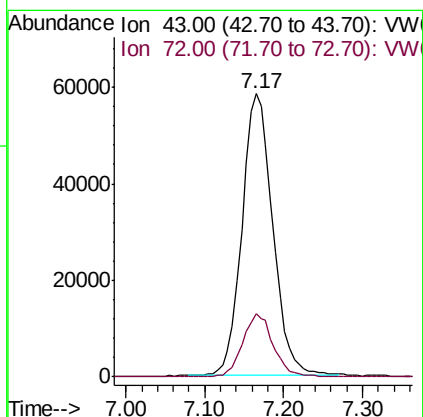
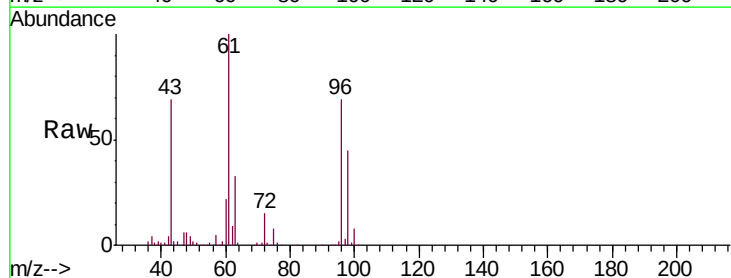
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VICV03

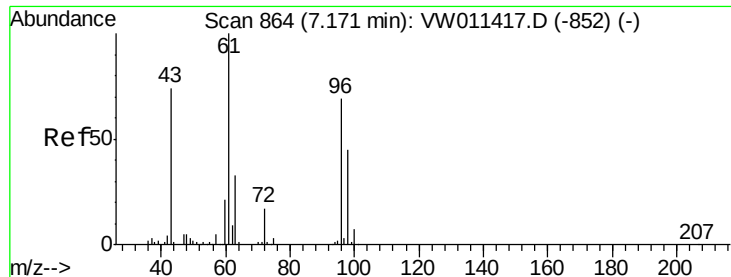
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.0  | 22.8  | 42.4  |
| 83      | 11.7  | 8.6   | 16.0  |



#21  
 2-Butanone  
 Concen: 46.862 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 22.3  | 10.5  | 31.6  |





#22

cis-1,2-Dichloroethene

Concen: 24.086 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampled :

VICV03

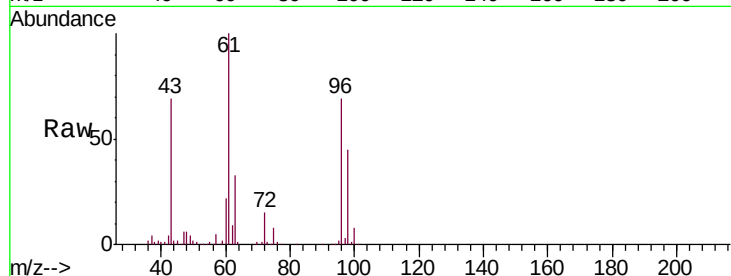
Tgt Ion: 96 Resp: 152812

Ion Ratio Lower Upper

96 100

61 144.7 101.8 189.0

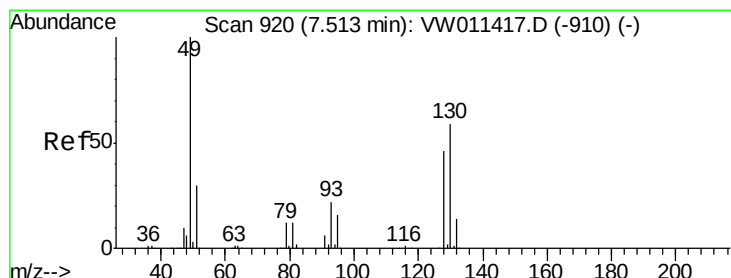
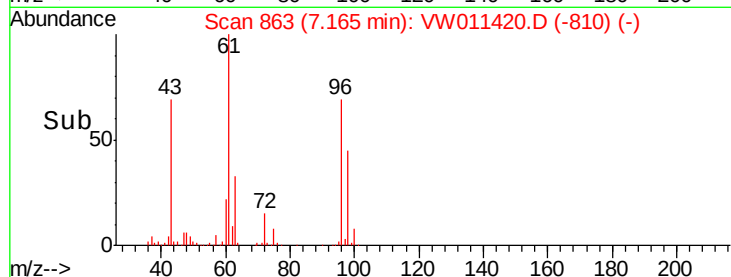
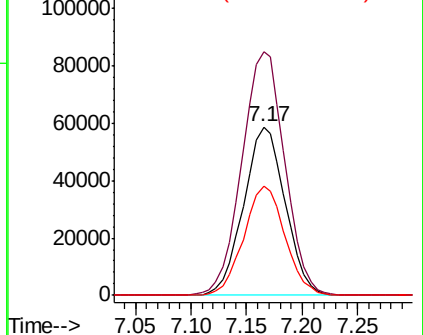
98 65.0 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#23

Bromochloromethane

Concen: 24.928 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Tgt Ion: 128 Resp: 66099

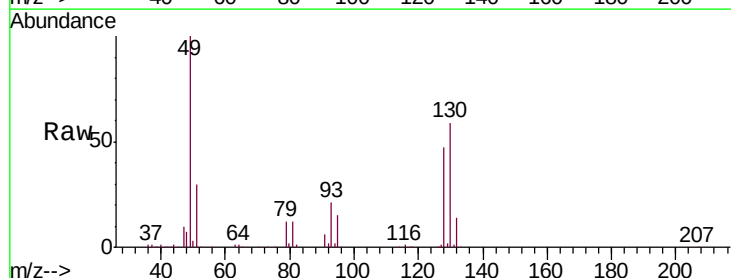
Ion Ratio Lower Upper

128 100

49 213.8 152.0 282.2

130 127.2 89.8 166.8

51 64.1 52.9 79.3

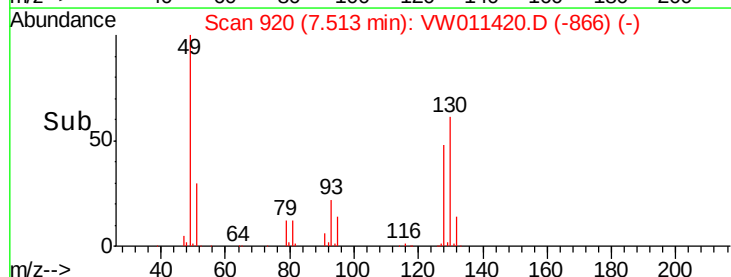
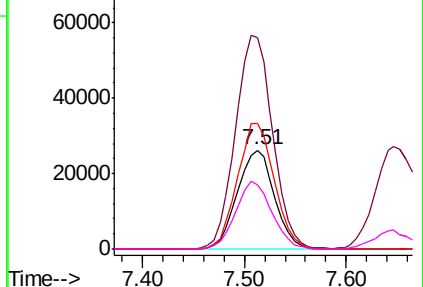


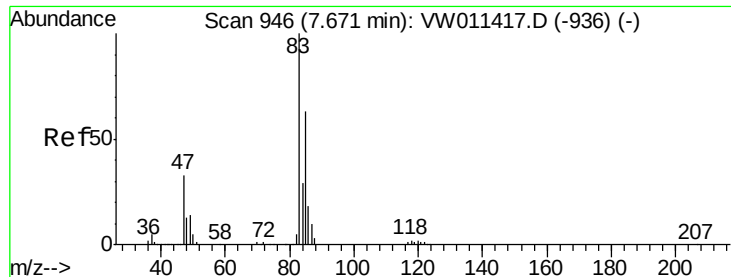
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW

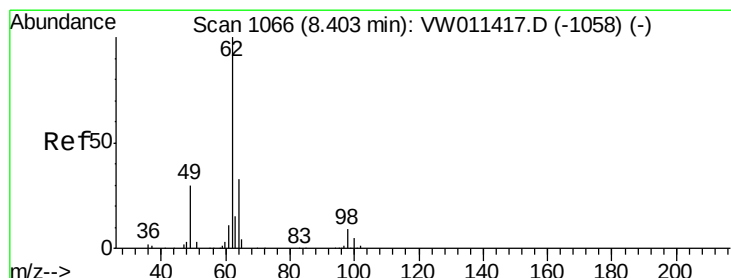
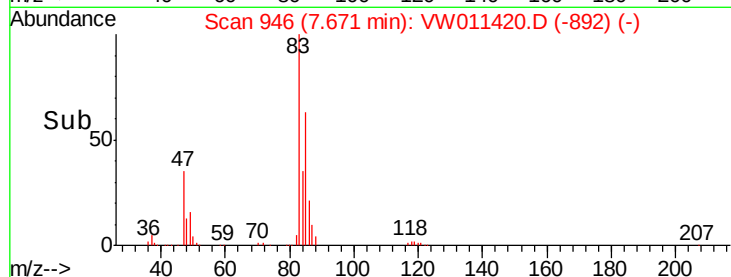
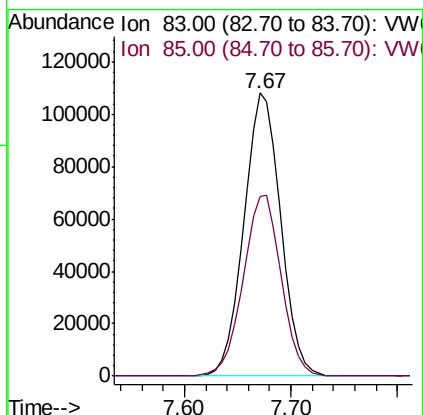
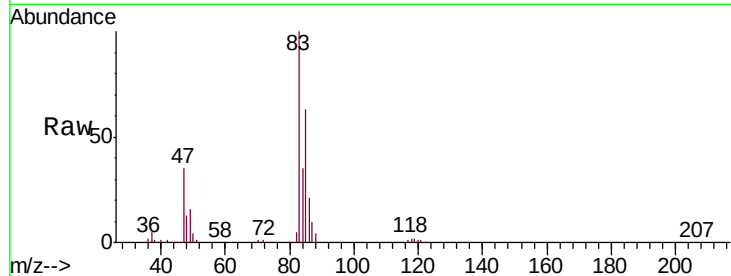




#25  
Chloroform  
Concen: 23.951 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW011420.D  
Acq: 22 Jul 2019 14:45

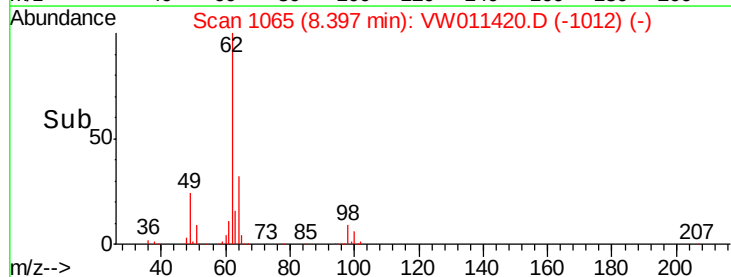
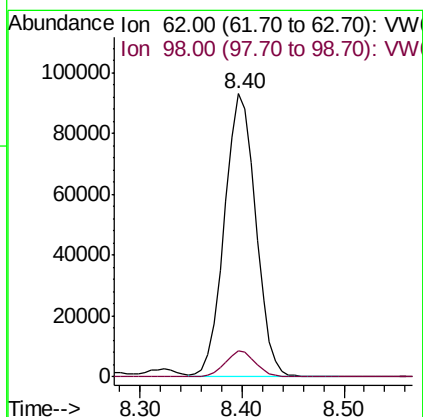
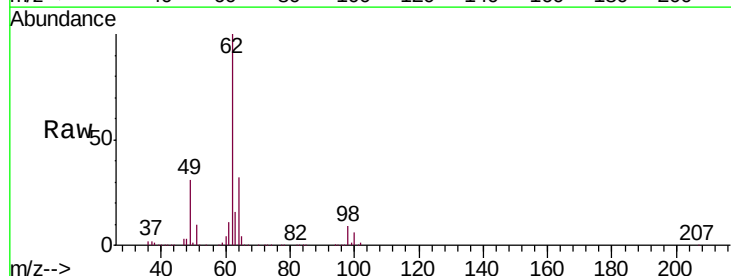
Instrument :  
MSVOA\_W  
ClientSampleId :  
VICV03

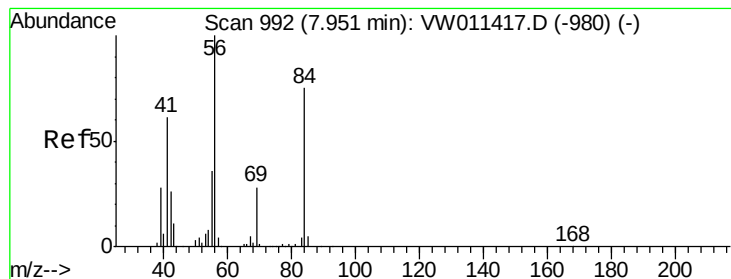
Tgt Ion: 83 Resp: 262461  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.1 83.9



#27  
1,2-Dichloroethane  
Concen: 24.822 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.01 min  
Lab File: VW011420.D  
Acq: 22 Jul 2019 14:45

Tgt Ion: 62 Resp: 198251  
Ion Ratio Lower Upper  
62 100  
98 9.0 7.1 10.7





#30

Cyclohexane

Concen: 23.835 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampled :

VICV03

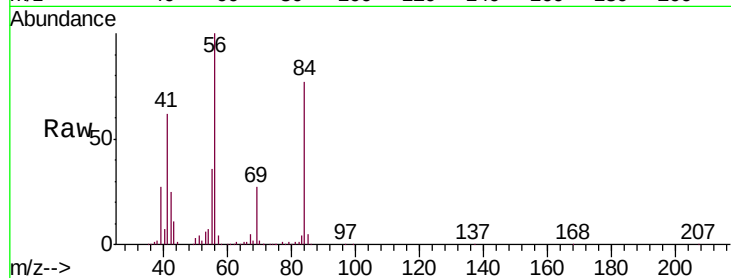
Tgt Ion: 56 Resp: 302728

Ion Ratio Lower Upper

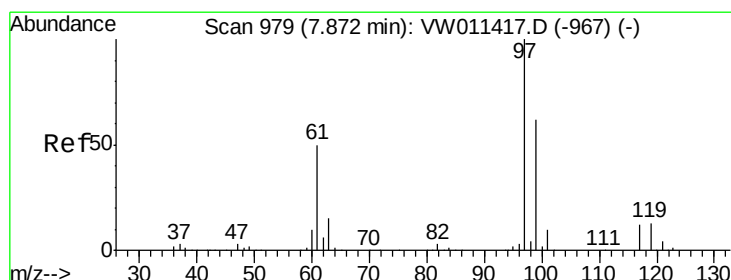
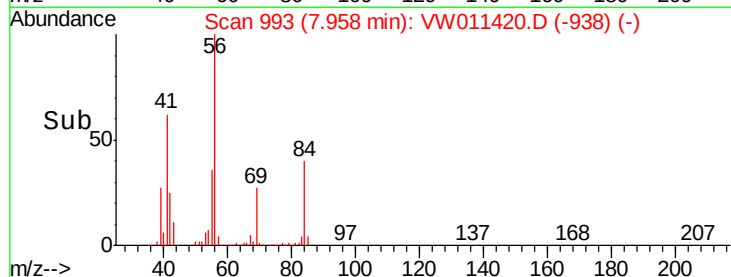
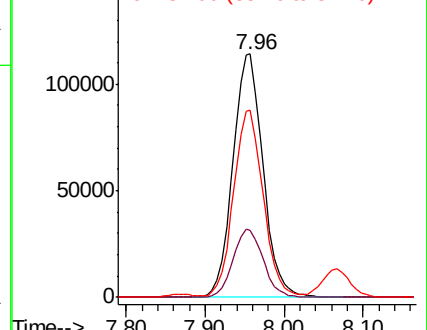
56 100

69 28.0 22.6 34.0

84 76.0 60.4 90.6



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



#31

1,1,1-Trichloroethane

Concen: 23.925 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

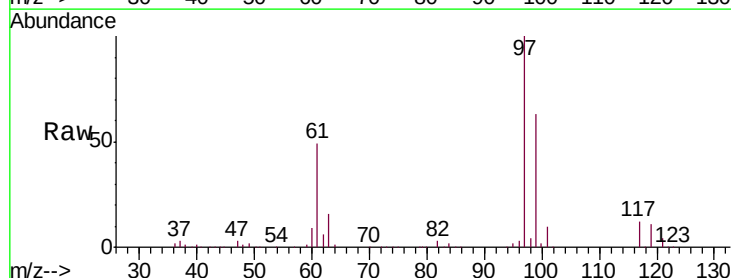
Tgt Ion: 97 Resp: 207659

Ion Ratio Lower Upper

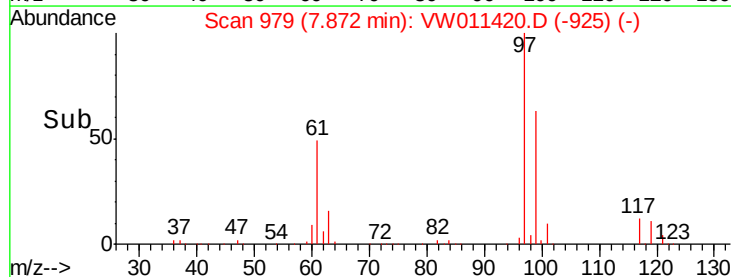
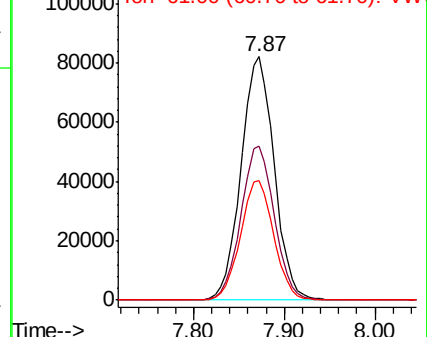
97 100

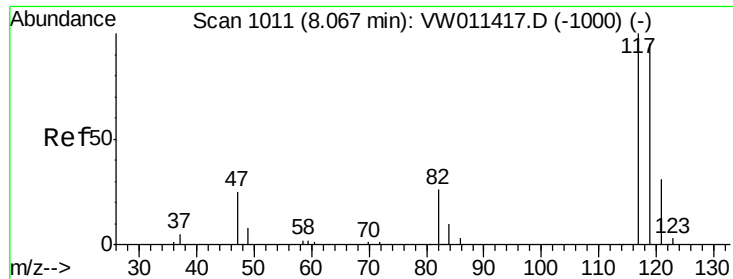
99 63.9 51.0 76.6

61 49.3 39.4 59.2



Abundance Ion 97.00 (96.70 to 97.70): VW  
Ion 99.00 (98.70 to 99.70): VW  
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 24.029 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

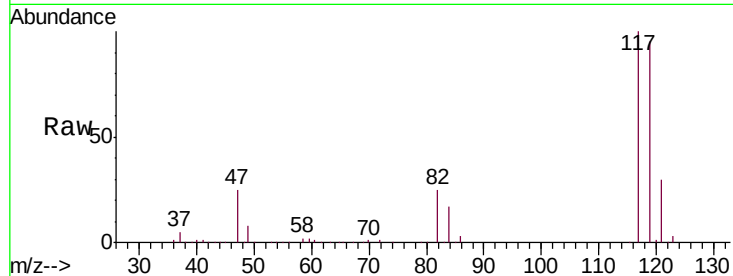
VICV03

Tgt Ion:117 Resp: 193821

Ion Ratio Lower Upper

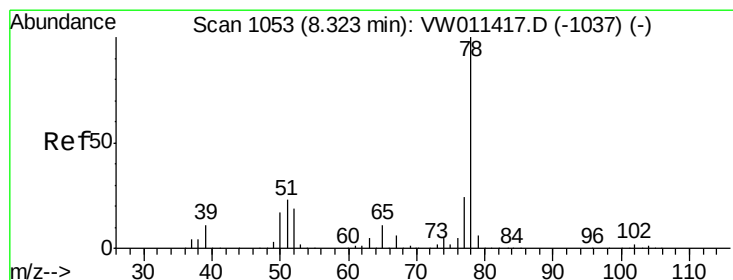
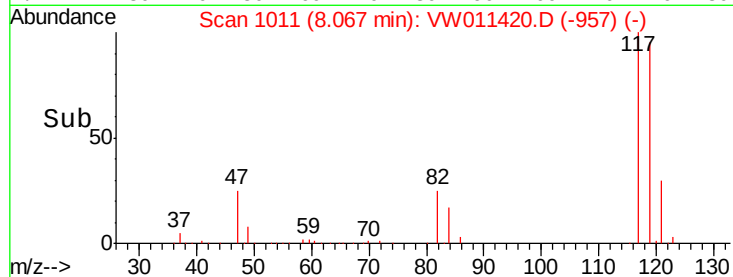
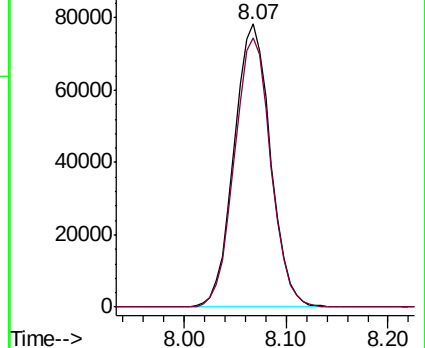
117 100

119 95.0 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.105 ug/L

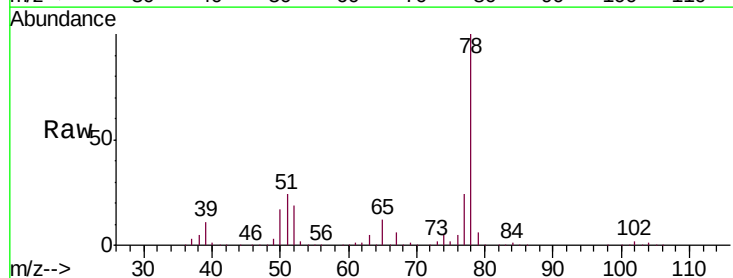
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

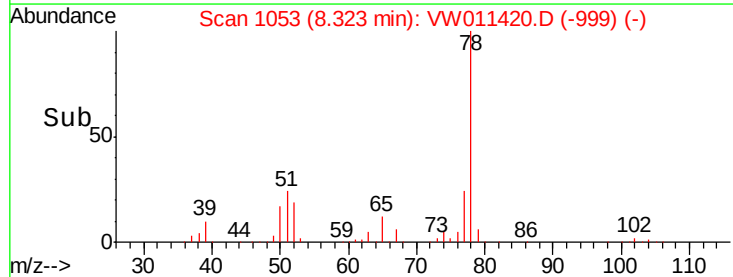
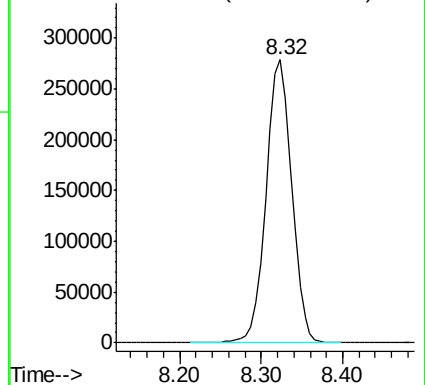
Lab File: VW011420.D

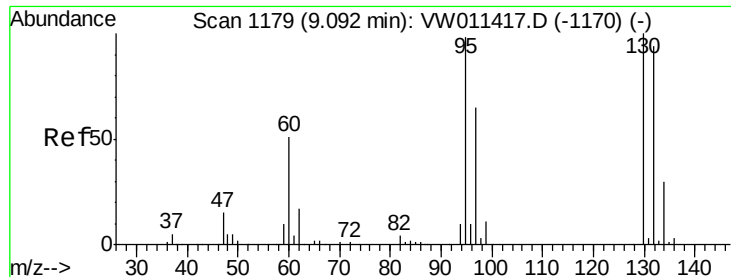
Acq: 22 Jul 2019 14:45

Tgt Ion: 78 Resp: 610121



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.766 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

VICV03

Tgt Ion: 95 Resp: 152891

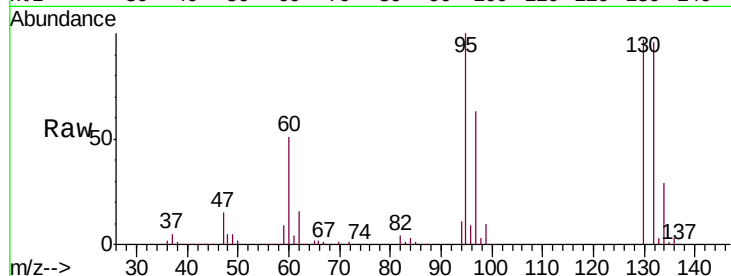
Ion Ratio Lower Upper

95 100

97 63.0 44.6 82.8

132 93.3 66.0 122.6

130 96.8 68.4 127.0

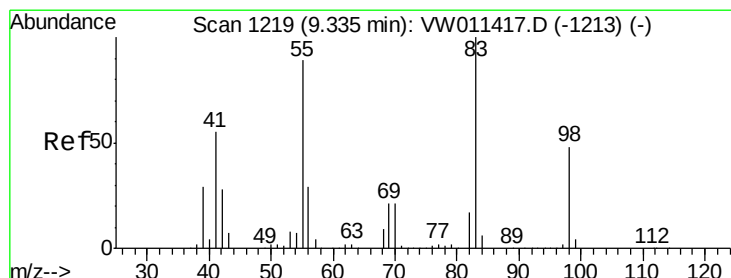
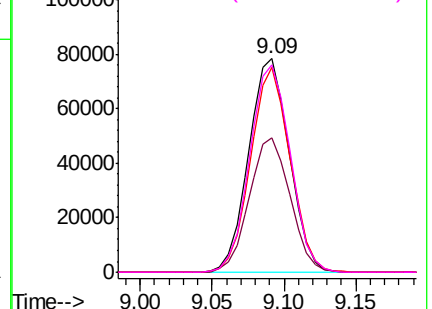
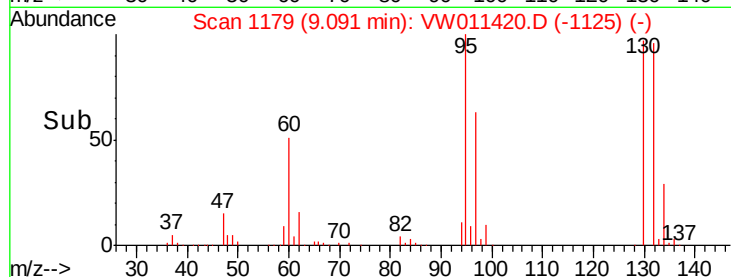


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 23.872 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

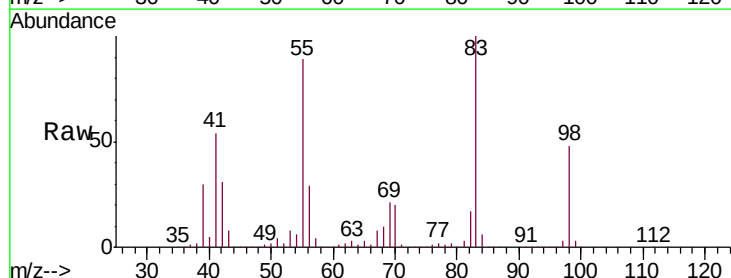
Tgt Ion: 83 Resp: 279258

Ion Ratio Lower Upper

83 100

55 89.2 71.5 107.3

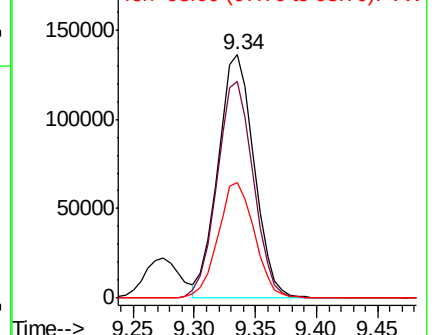
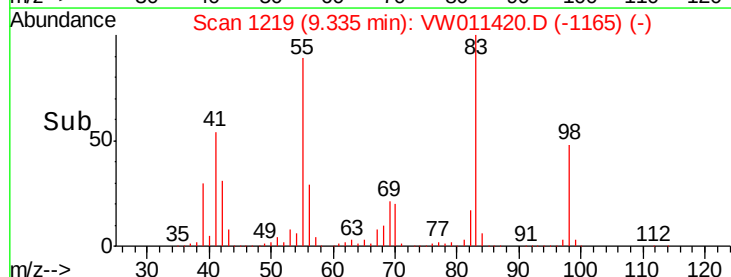
98 47.8 37.4 56.2



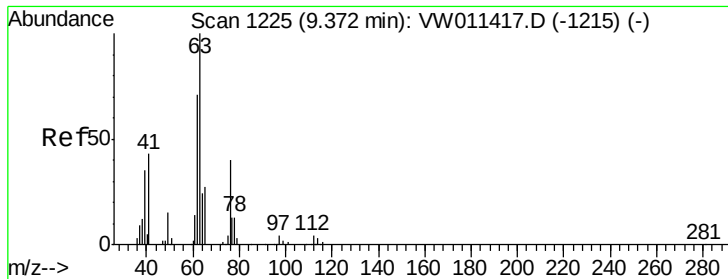
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW







#40

1,2-Dichloropropane

Concen: 24.144 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

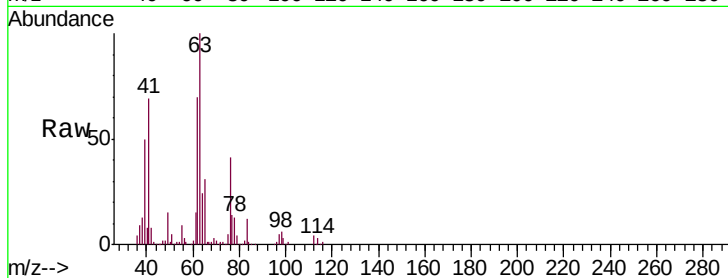
VICV03

Tgt Ion: 63 Resp: 164183

Ion Ratio Lower Upper

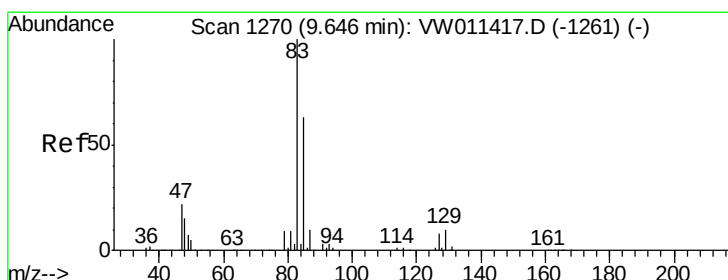
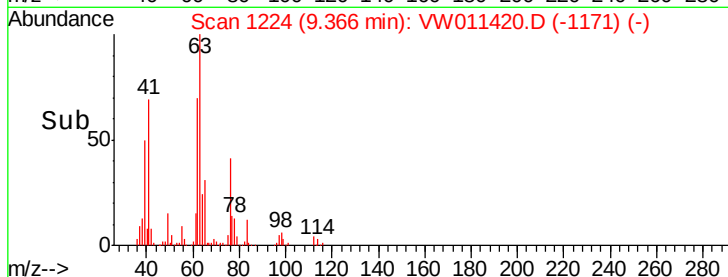
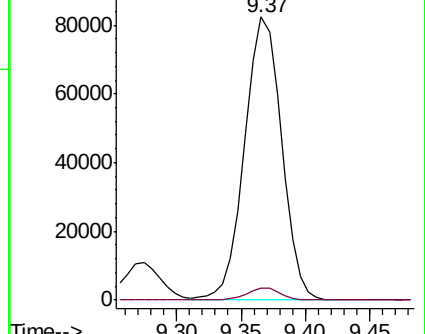
63 100

112 3.9 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 24.365 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

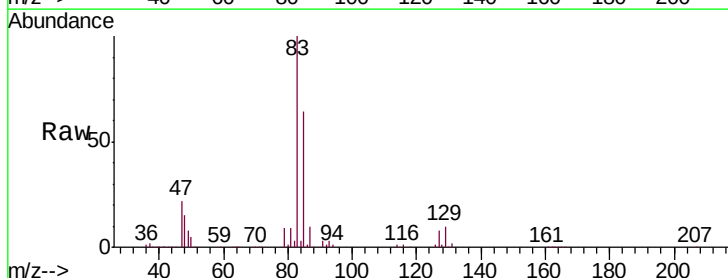
Tgt Ion: 83 Resp: 193722

Ion Ratio Lower Upper

83 100

85 63.8 44.3 82.3

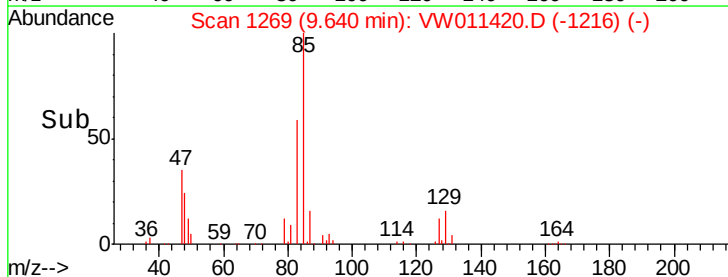
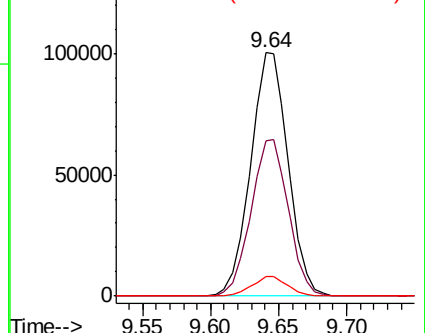
127 7.8 6.6 9.8

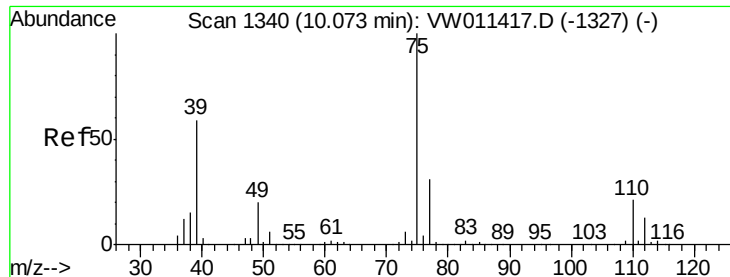


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 24.989 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

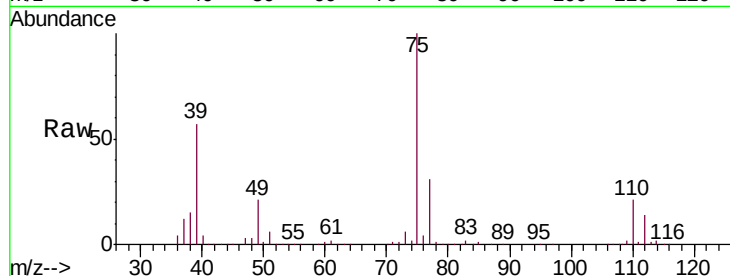
VICV03

Tgt Ion: 75 Resp: 255294

Ion Ratio Lower Upper

75 100

77 30.5 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

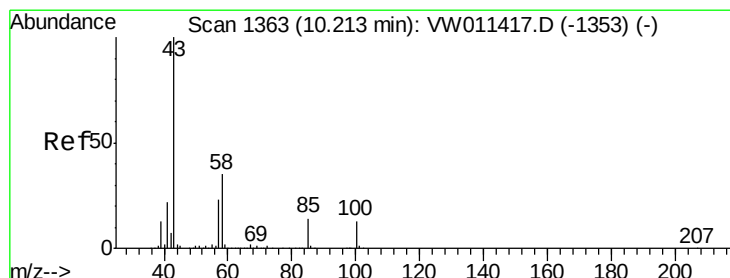
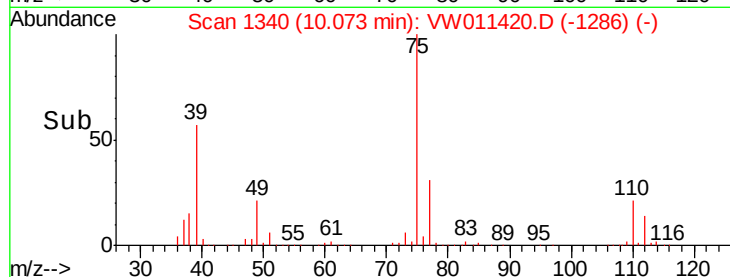
150000

100000

50000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 49.188 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

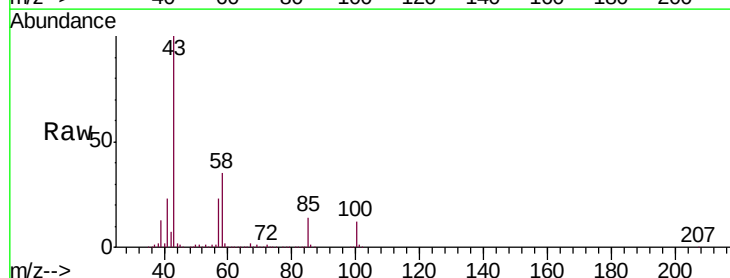
Tgt Ion: 43 Resp: 286354

Ion Ratio Lower Upper

43 100

58 35.4 28.0 42.0

100 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

250000

200000

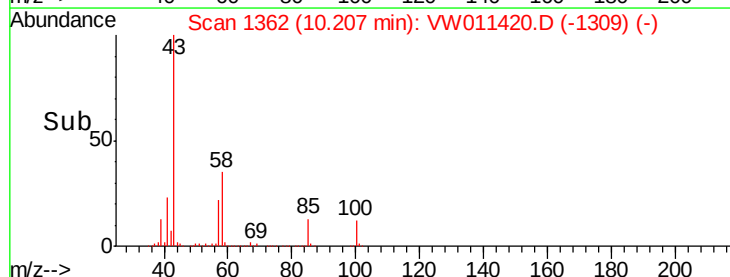
150000

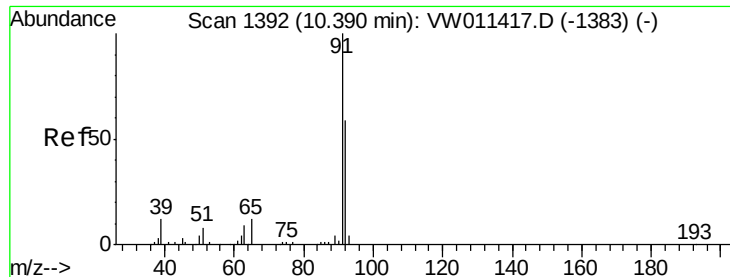
100000

50000

0

Time-->





#44

Toluene

Concen: 24.258 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

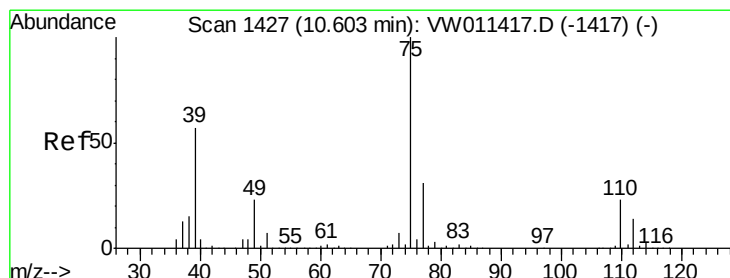
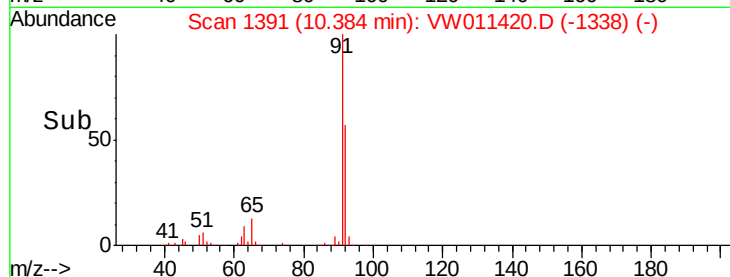
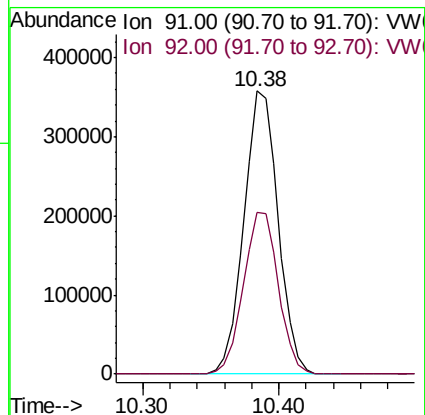
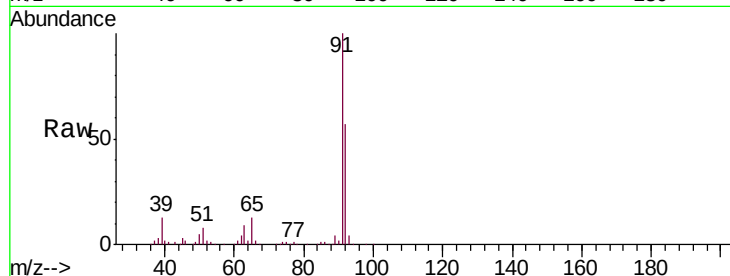
VICV03

Tgt Ion: 91 Resp: 629778

Ion Ratio Lower Upper

91 100

92 57.2 41.2 76.4



#45

trans-1,3-Dichloropropene

Concen: 24.589 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011420.D

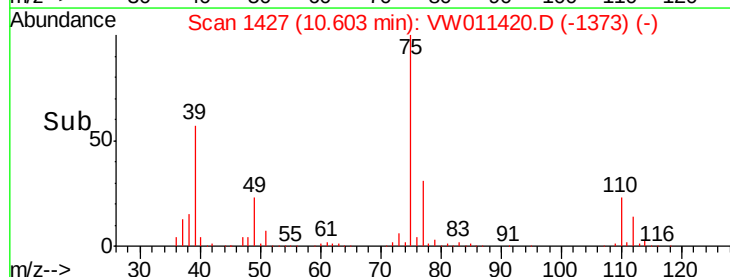
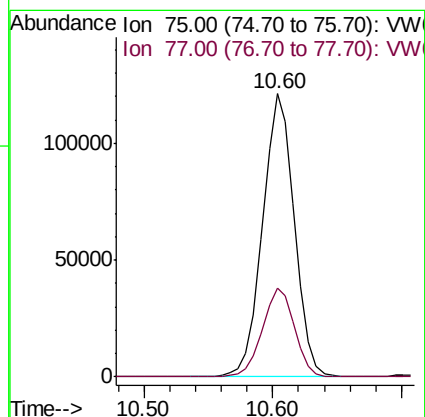
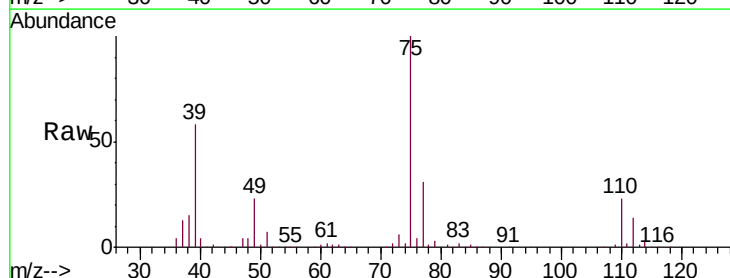
Acq: 22 Jul 2019 14:45

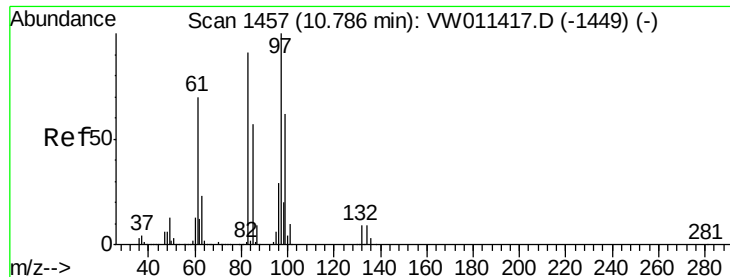
Tgt Ion: 75 Resp: 206451

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 24.592 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampled :

VICV03

Tgt Ion: 97 Resp: 111941

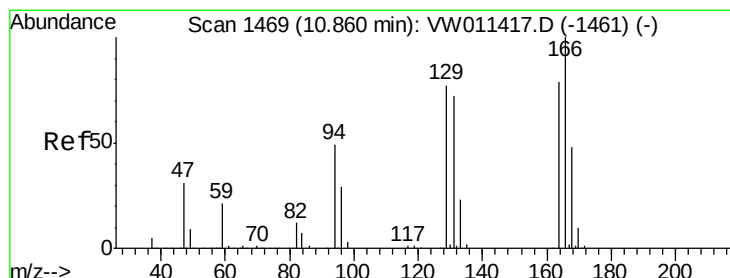
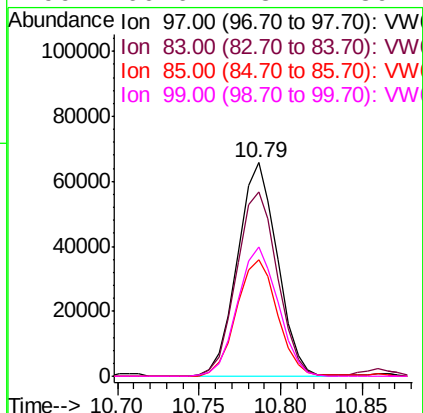
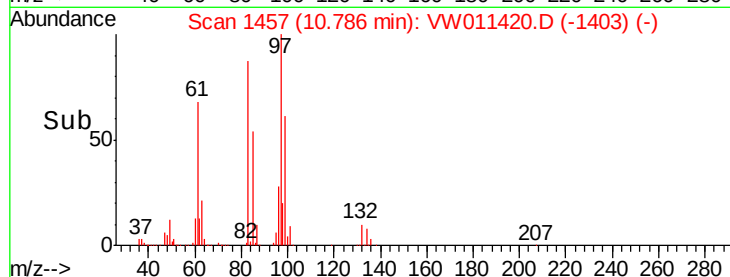
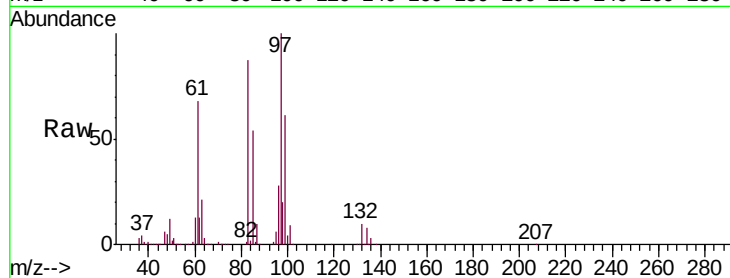
Ion Ratio Lower Upper

97 100

83 86.6 63.8 118.6

85 54.3 40.0 74.4

99 60.6 43.1 80.1



#47

Tetrachloroethene

Concen: 23.434 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Tgt Ion: 164 Resp: 115660

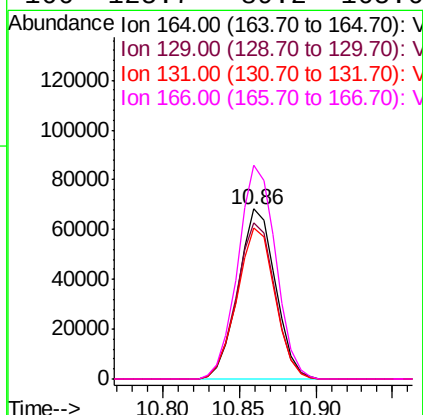
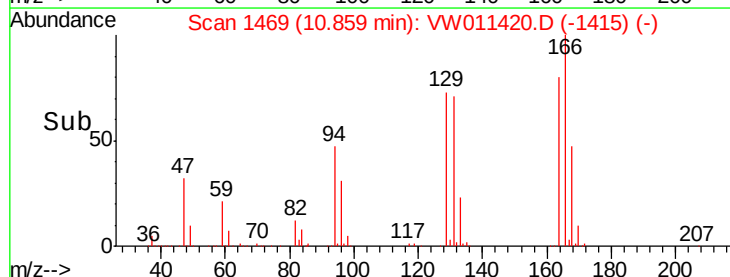
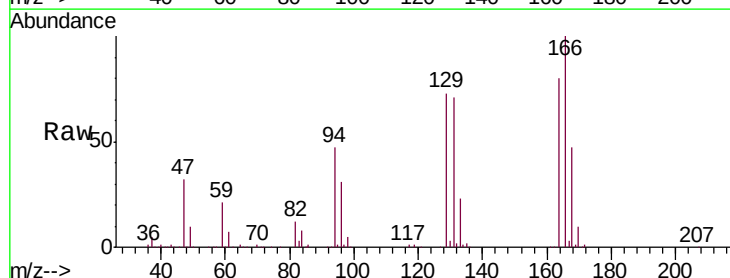
Ion Ratio Lower Upper

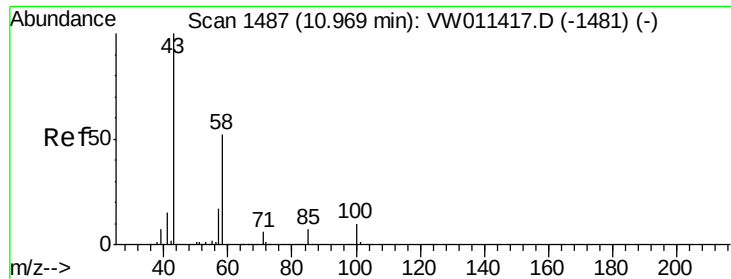
164 100

129 91.8 69.0 128.1

131 89.1 64.5 119.7

166 125.7 89.2 165.6

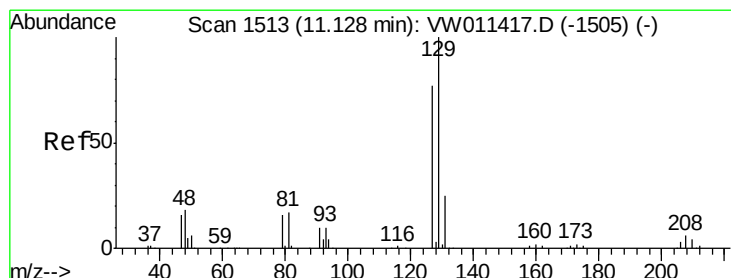
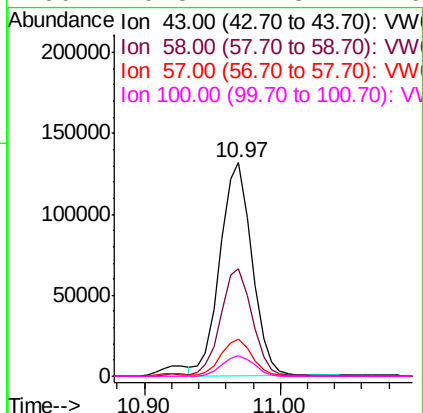
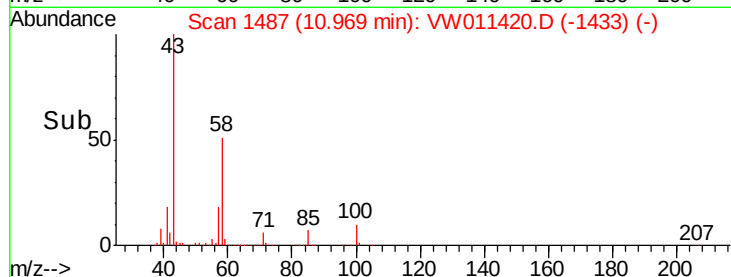
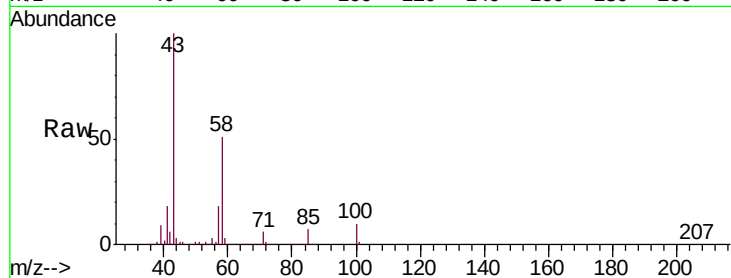




#49  
2-Hexanone  
Concen: 49.034 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW011420.D  
Acq: 22 Jul 2019 14:45

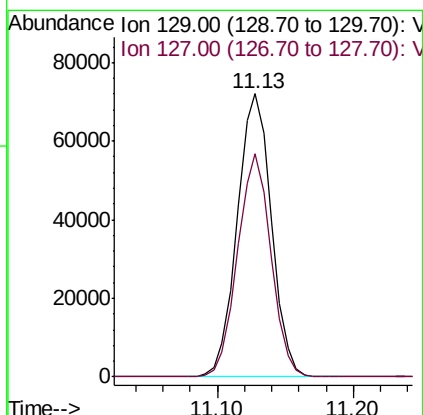
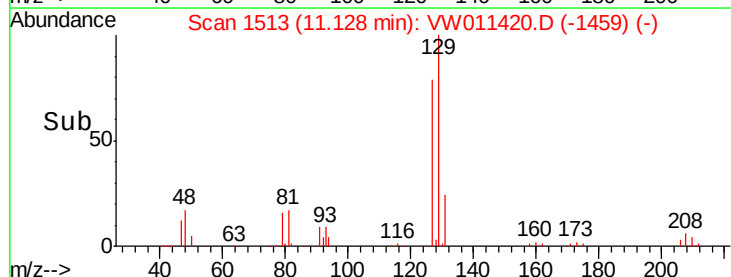
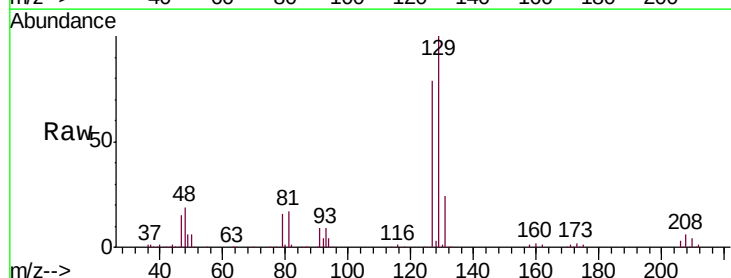
Instrument :  
MSVOA\_W  
ClientSampleId :  
VICV03

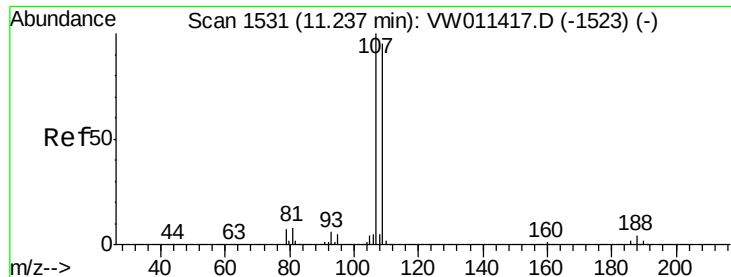
Tgt Ion: 43 Resp: 215473  
Ion Ratio Lower Upper  
43 100  
58 50.6 40.1 60.1  
57 16.9 13.8 20.6  
100 9.8 7.8 11.6



#50  
Dibromochloromethane  
Concen: 25.035 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW011420.D  
Acq: 22 Jul 2019 14:45

Tgt Ion: 129 Resp: 126142  
Ion Ratio Lower Upper  
129 100  
127 78.9 53.9 100.1





#51

1,2-Dibromoethane

Concen: 24.983 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

VICV03

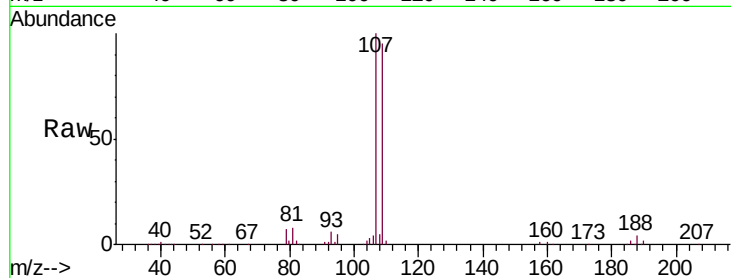
Tgt Ion:107 Resp: 109981

Ion Ratio Lower Upper

107 100

109 95.0 66.8 124.2

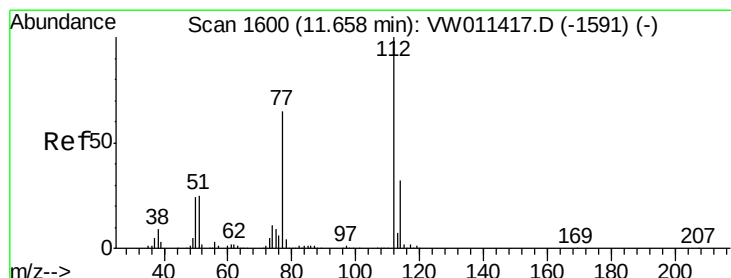
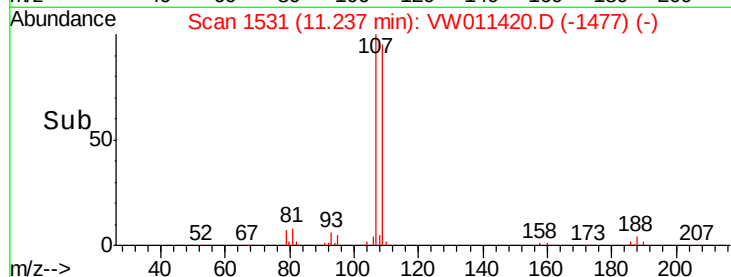
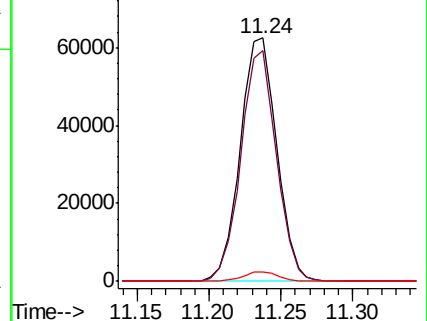
188 3.8 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.201 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

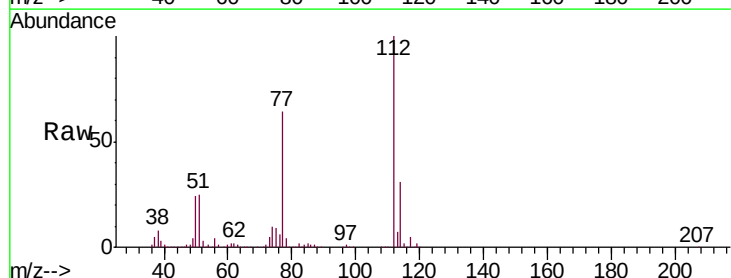
Tgt Ion:112 Resp: 378908

Ion Ratio Lower Upper

112 100

77 63.6 52.2 78.2

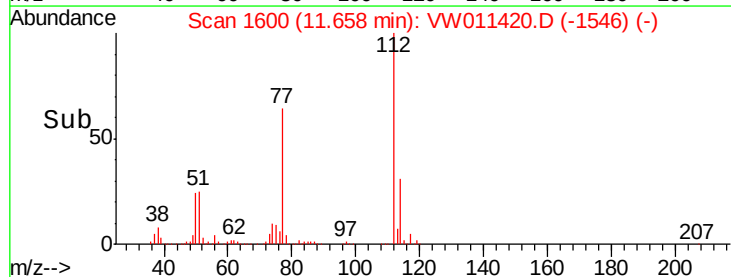
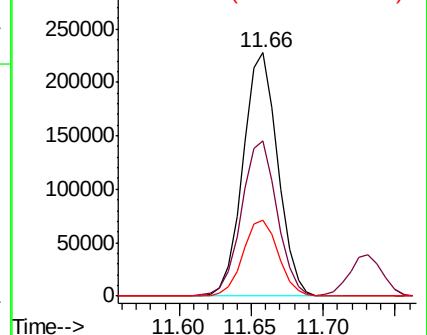
114 31.4 22.0 41.0

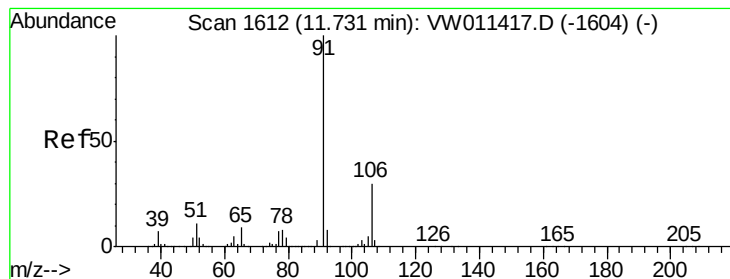


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.125 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

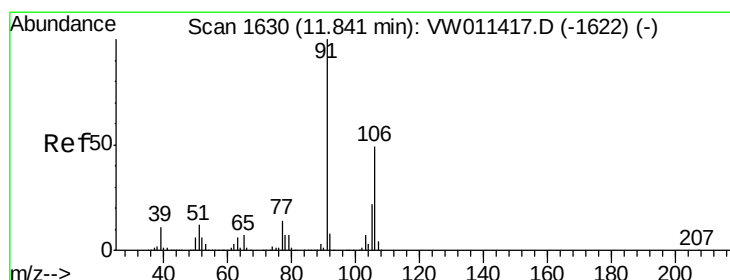
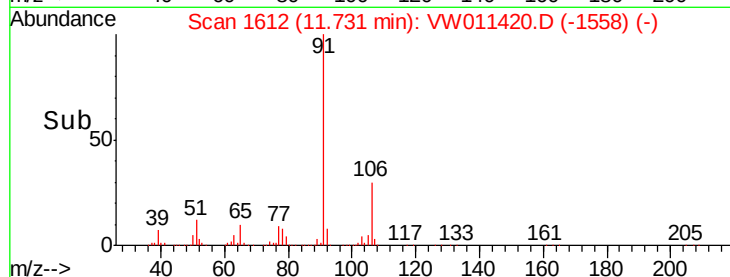
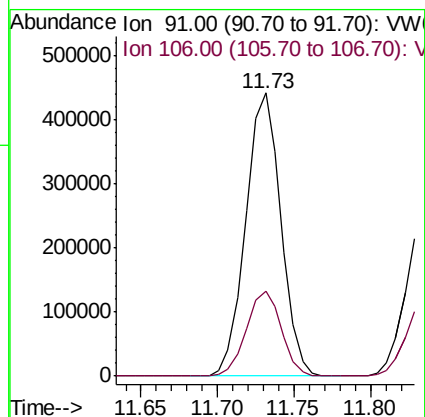
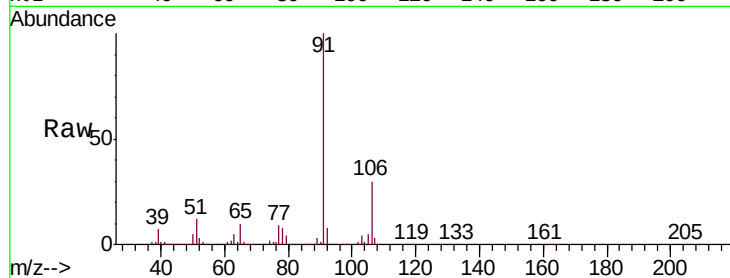
VICV03

Tgt Ion: 91 Resp: 704916

Ion Ratio Lower Upper

91 100

106 30.0 21.1 39.1



#54

m,p-Xylene

Concen: 24.182 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW011420.D

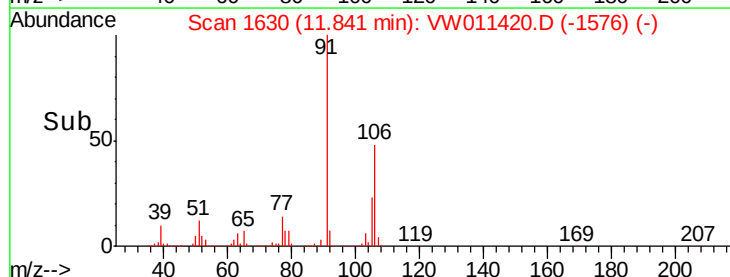
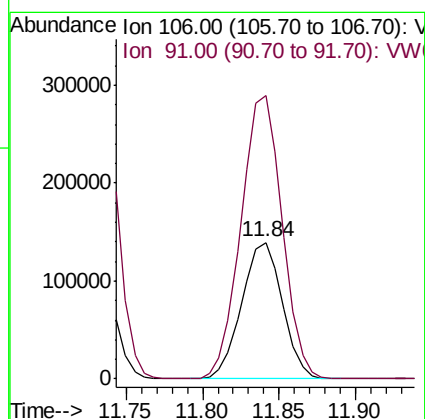
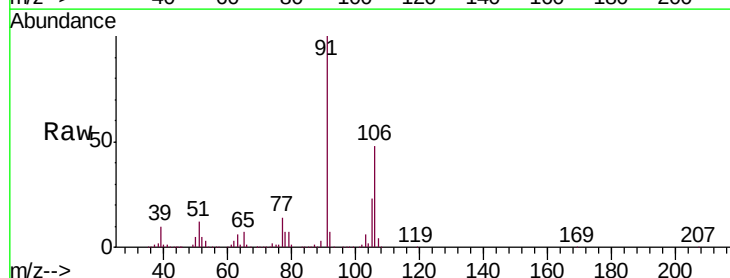
Acq: 22 Jul 2019 14:45

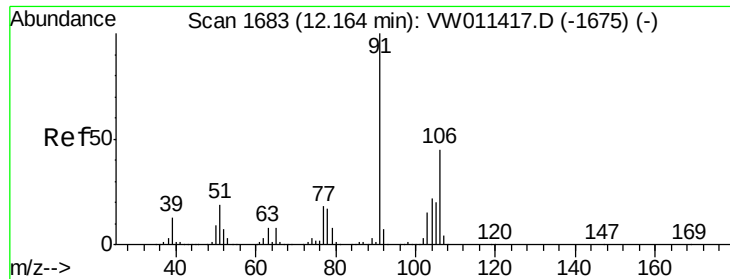
Tgt Ion: 106 Resp: 258767

Ion Ratio Lower Upper

106 100

91 207.5 143.7 266.9





#55

o-xylene

Concen: 24.480 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

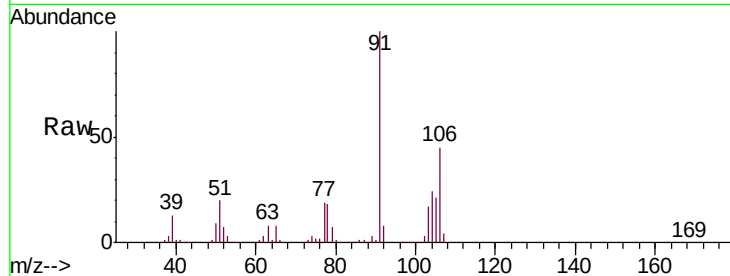
VICV03

Tgt Ion:106 Resp: 246898

Ion Ratio Lower Upper

106 100

91 223.6 155.5 288.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

400000

300000

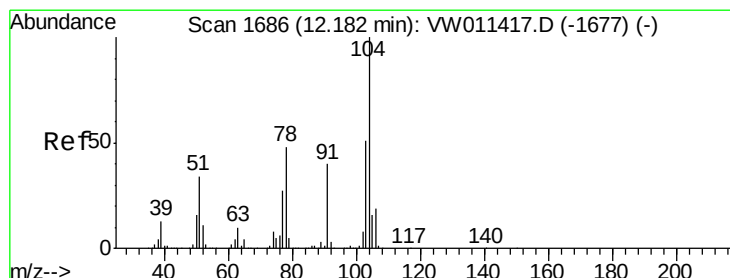
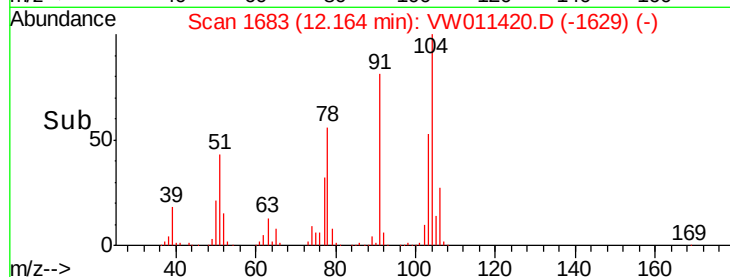
200000

100000

0

12.10 12.20

Time-->



#56

Styrene

Concen: 24.967 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW011420.D

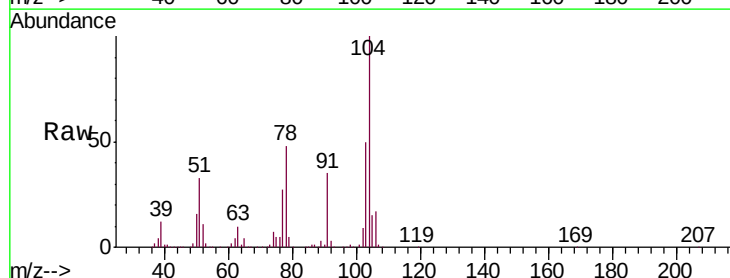
Acq: 22 Jul 2019 14:45

Tgt Ion:104 Resp: 423612

Ion Ratio Lower Upper

104 100

78 47.9 33.5 62.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

300000

250000

200000

150000

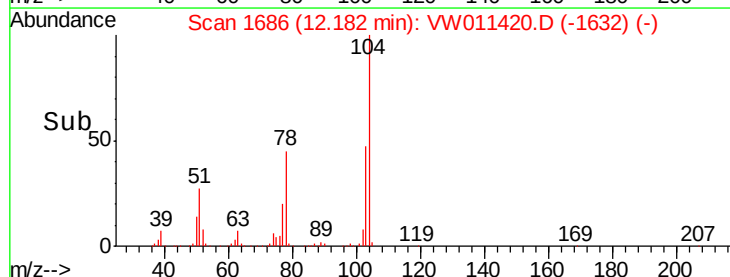
100000

50000

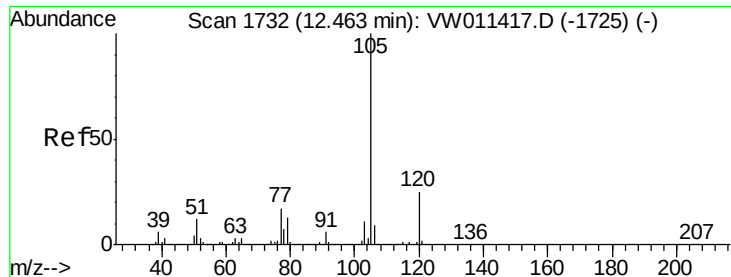
0

12.10 12.20

Time-->







#57

Isopropylbenzene

Concen: 24.280 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampled :

VICV03

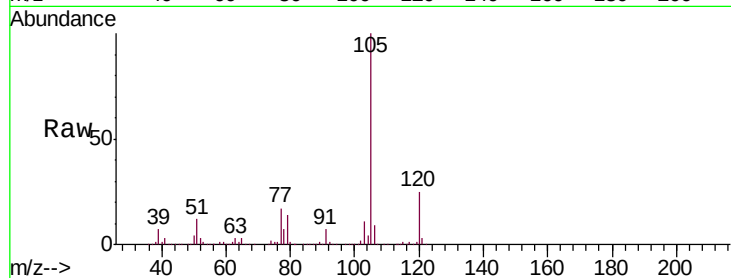
Tgt Ion: 105 Resp: 667014

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

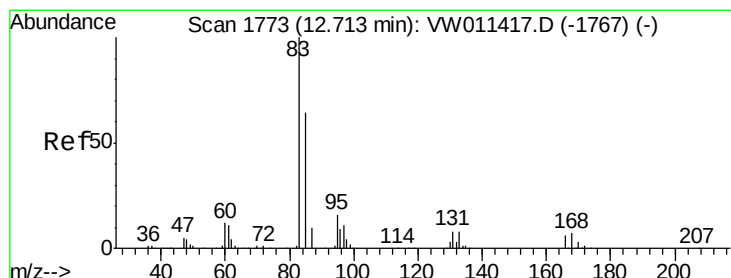
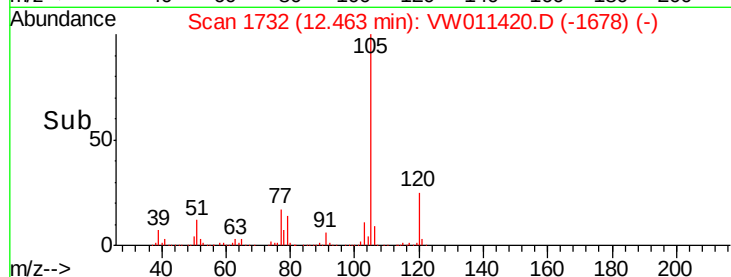
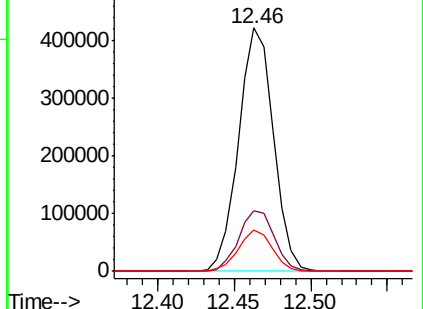
77 16.7 13.3 19.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.457 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

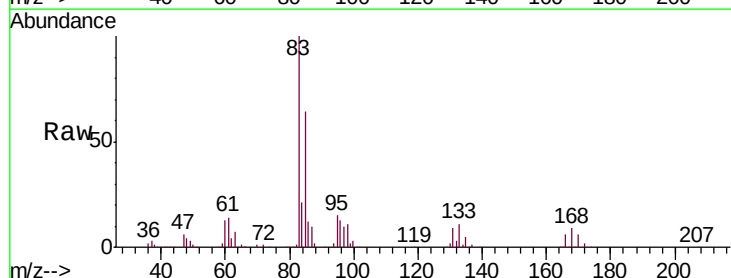
Tgt Ion: 83 Resp: 144612

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.9

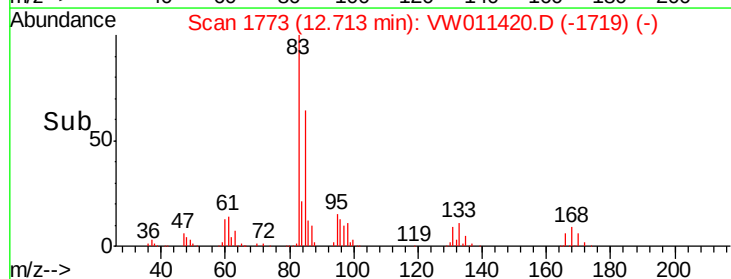
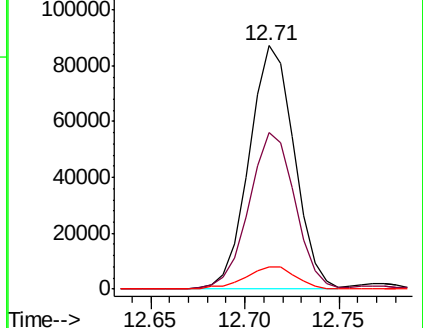
131 9.0 7.0 10.6

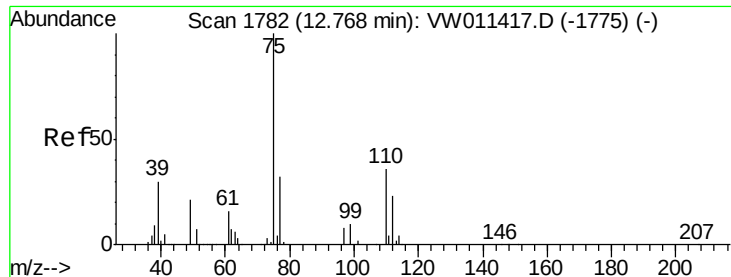


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.590 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

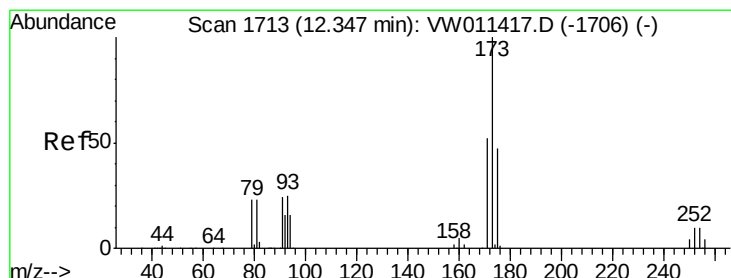
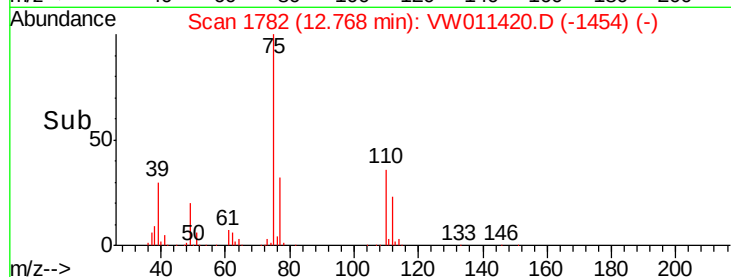
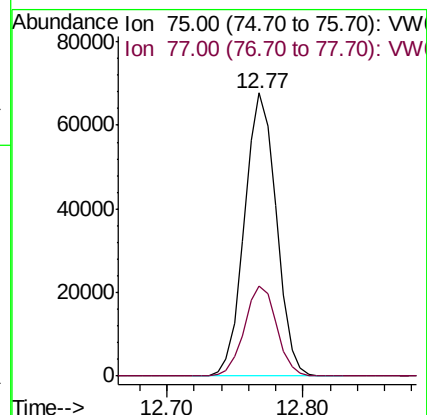
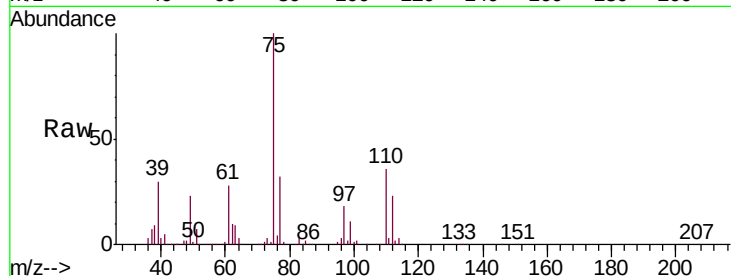
VICV03

Tgt Ion: 75 Resp: 111091

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



#62

Bromoform

Concen: 24.359 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

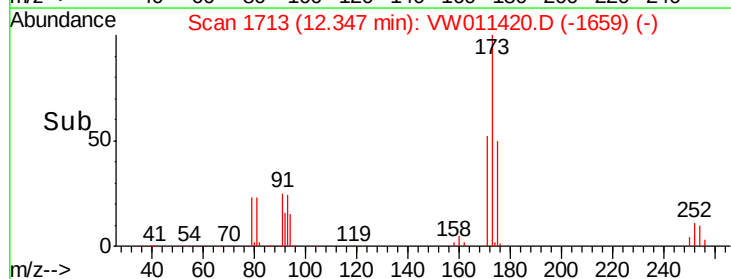
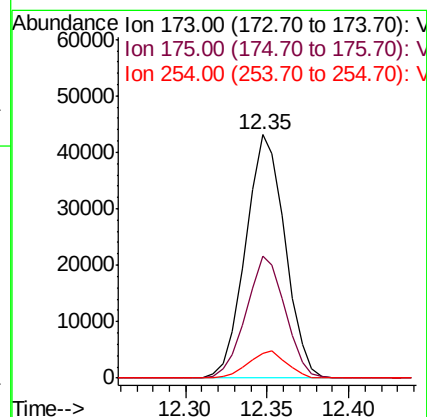
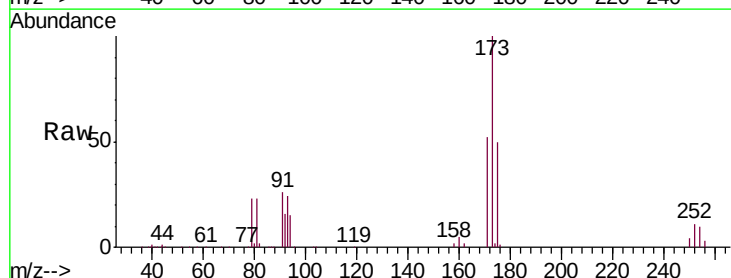
Tgt Ion: 173 Resp: 72557

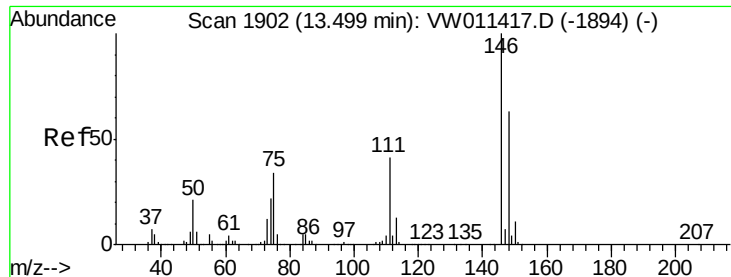
Ion Ratio Lower Upper

173 100

175 49.8 39.0 58.4

254 10.8 8.5 12.7

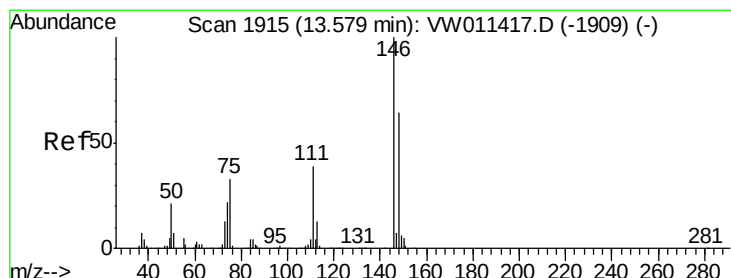
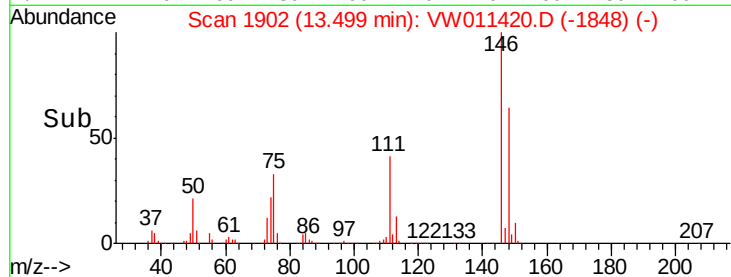
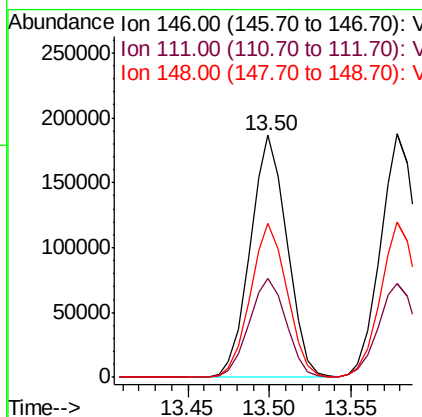
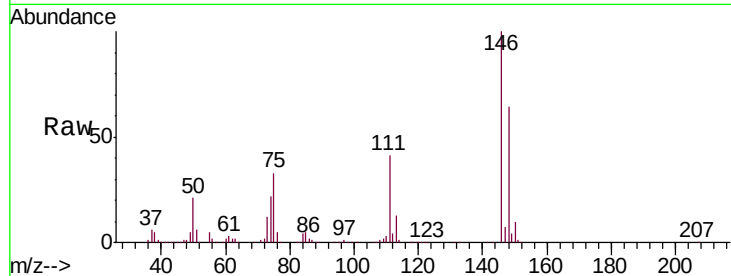




#63  
 1,3-Dichlorobenzene  
 Concen: 24.531 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

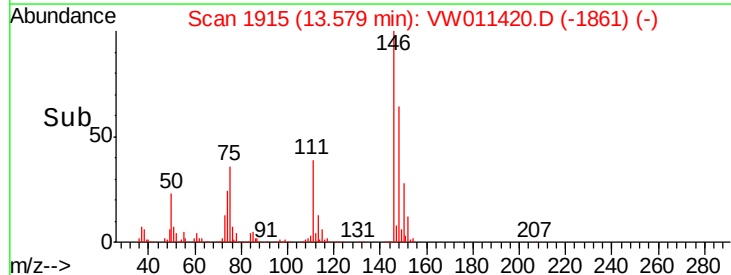
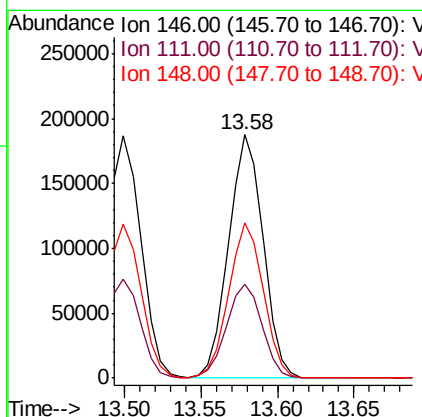
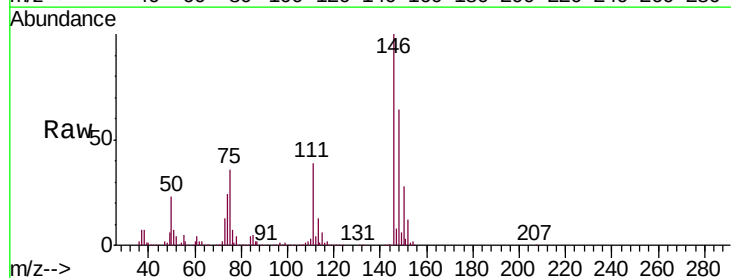
Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VICV03

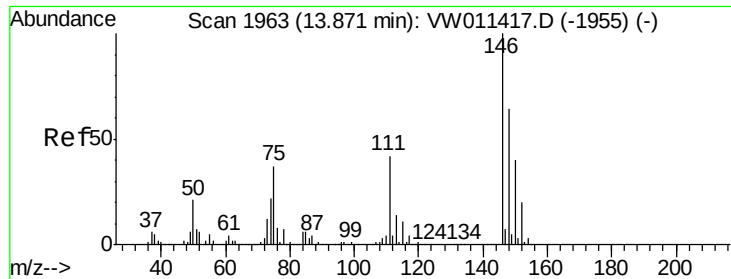
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 29.0  | 53.8  |
| 148     | 63.9  | 44.3  | 82.3  |



#64  
 1,4-Dichlorobenzene  
 Concen: 24.233 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.7  | 27.8  | 51.6  |
| 148     | 63.9  | 44.9  | 83.5  |

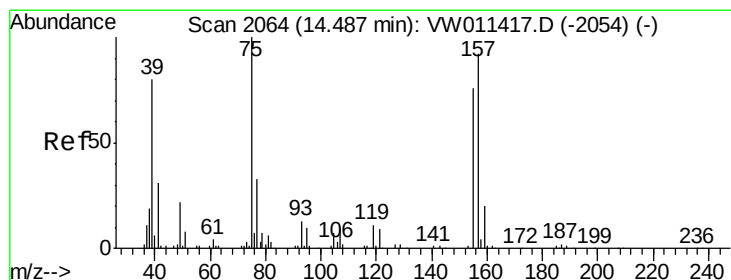
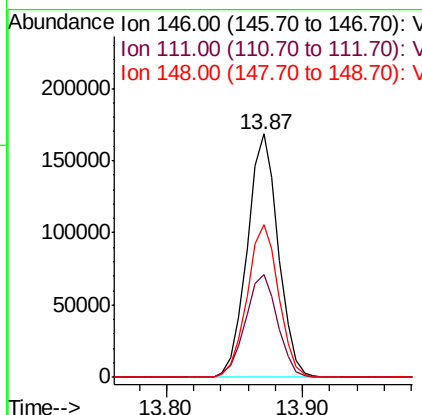
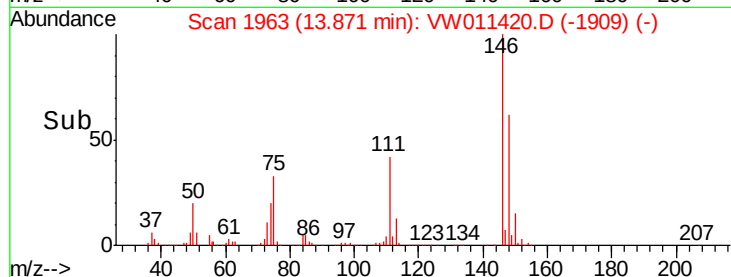
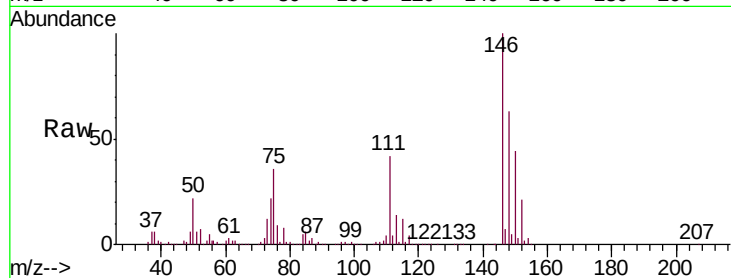




#65  
 1,2-Dichlorobenzene  
 Concen: 24.479 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

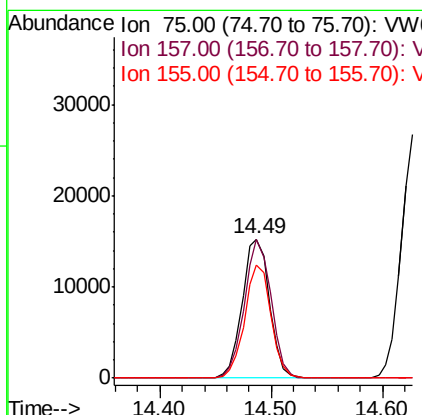
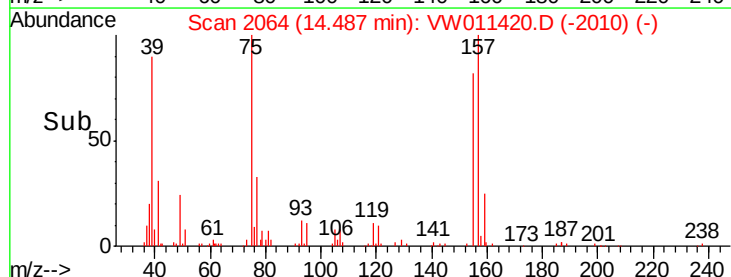
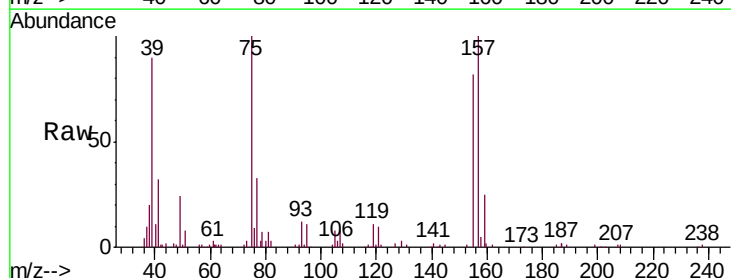
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VICV03

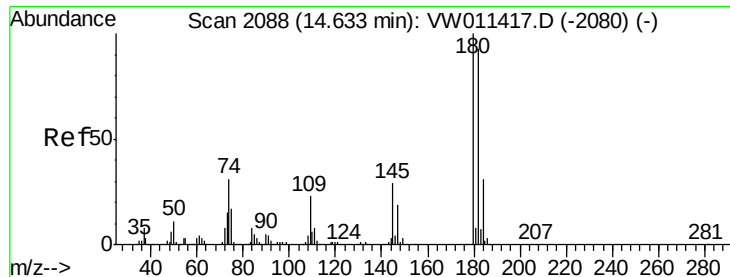
Tgt Ion: 146 Resp: 268418  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 33.8 50.8  
 148 62.5 51.6 77.4



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 24.742 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

Tgt Ion: 75 Resp: 25860  
 Ion Ratio Lower Upper  
 75 100  
 157 100.2 73.7 110.5  
 155 81.7 61.0 91.6

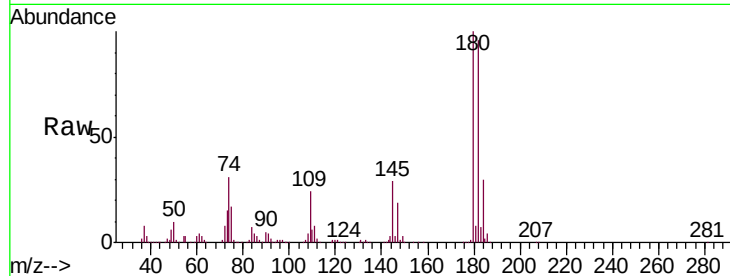




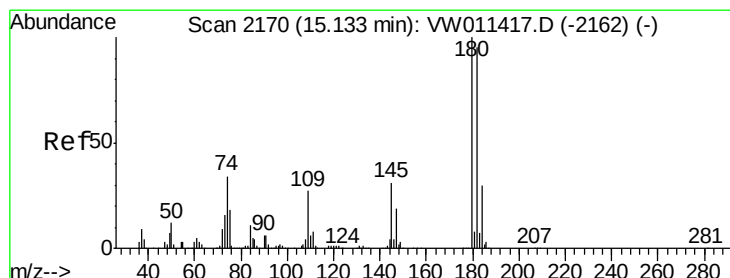
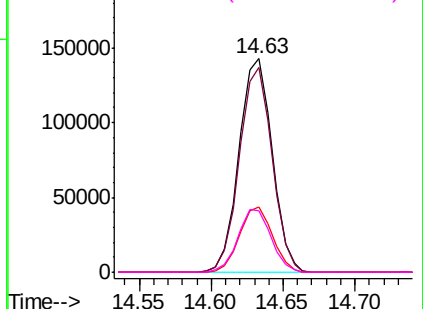
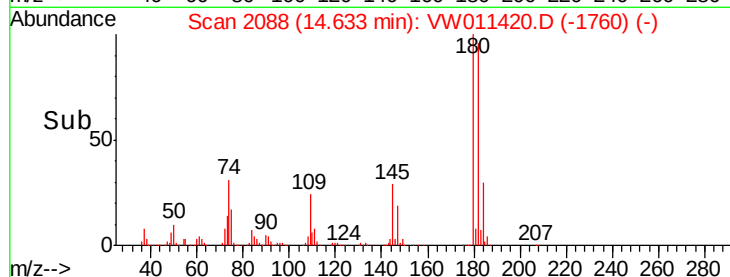
#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.091 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VICV03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 228101 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.9  | 76.1  | 114.1  |
| 184      | 30.3  | 24.7  | 37.1   |
| 145      | 29.4  | 23.8  | 35.6   |

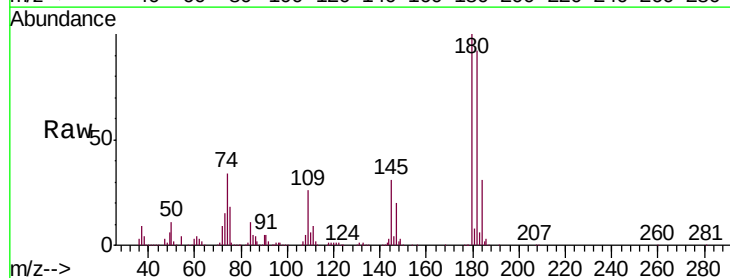


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

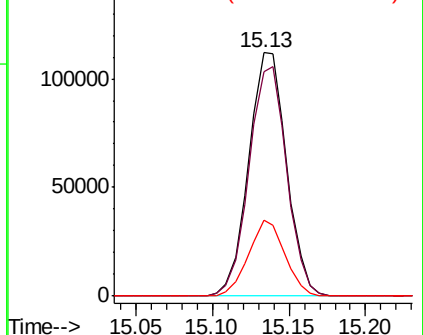
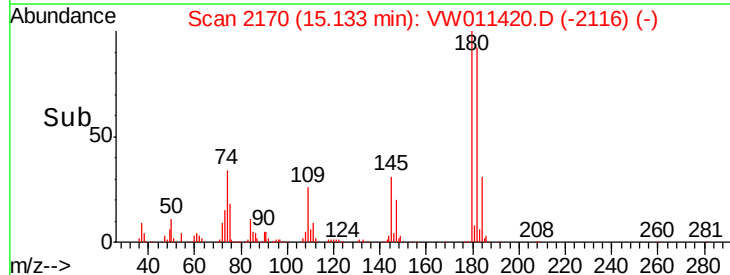


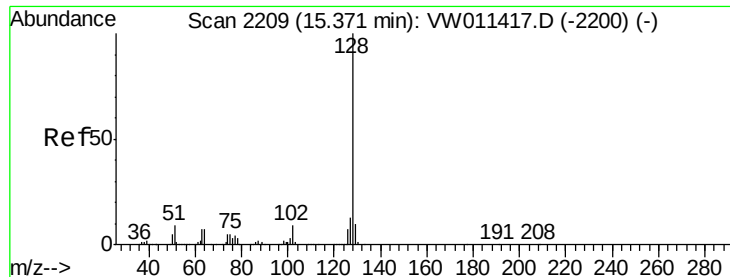
#68  
 1,2,4-trichlorobenzene  
 Concen: 25.622 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW011420.D  
 Acq: 22 Jul 2019 14:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 193045 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.0  | 76.4  | 114.6  |
| 145      | 29.7  | 24.2  | 36.2   |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 26.710 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

Instrument :

MSVOA\_W

ClientSampleId :

VICV03

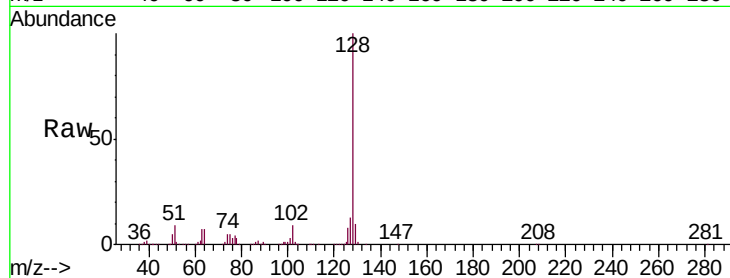
Tgt Ion:128 Resp: 409643

Ion Ratio Lower Upper

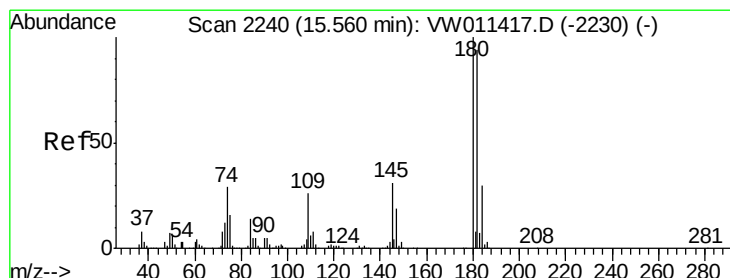
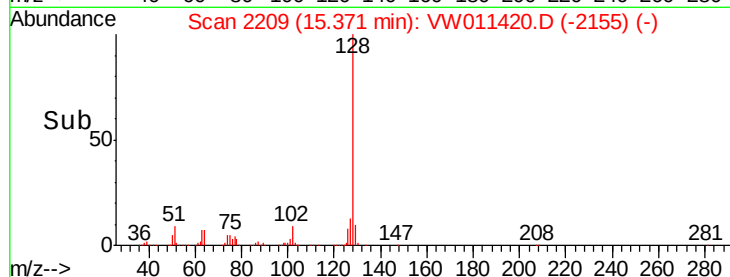
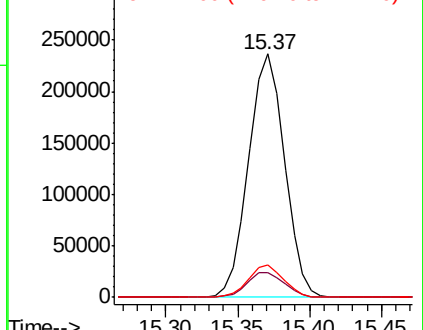
128 100

129 10.8 8.5 12.7

127 13.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.682 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW011420.D

Acq: 22 Jul 2019 14:45

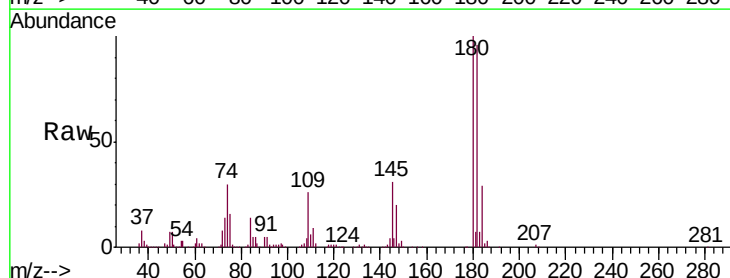
Tgt Ion:180 Resp: 175297

Ion Ratio Lower Upper

180 100

182 95.1 75.8 113.8

145 32.1 25.3 37.9



Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

