

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101519\  
 Data File : VW013589.D  
 Acq On : 15 Oct 2019 17:59  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 15 19:02:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 15 13:46:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 443836   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 393746   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 205446   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 118079   | 23.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.00%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 91521    | 23.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.88%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 264468   | 25.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 100.32% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 82155    | 53.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.38% |
| 24) Chloroform-d               | 7.65   | 84    | 248485   | 25.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 103.08% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 129571   | 25.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 103.76% |
| 29) Benzene-d6                 | 8.27   | 84    | 531642   | 25.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.84% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 156006   | 24.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 99.72%  |
| 37) Toluene-d8                 | 10.32  | 98    | 498047   | 24.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.52%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 69970    | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 100.40% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 66298    | 52.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.94% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 133776   | 26.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 106.68% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 187876   | 25.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 62461    | 25.827 | ug/L  | 91     |
| 3) Chloromethane               | 2.21 | 50   | 101746   | 23.944 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.36 | 62   | 154814   | 25.751 | ug/L  | 98     |
| 6) Bromomethane                | 2.78 | 94   | 93291    | 25.334 | ug/L  | 99     |
| 8) Chloroethane                | 2.92 | 64   | 86132    | 25.542 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 81821    | 26.106 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 151028   | 27.152 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 149506   | 26.834 | ug/L  | 96     |
| 13) Acetone                    | 4.12 | 43   | 68789    | 39.116 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.39 | 76   | 438259   | 25.776 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 73629    | 26.840 | ug/L  | 98     |
| 16) Methylene chloride         | 4.92 | 84   | 192093   | 28.574 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 241088   | 26.927 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 157808   | 26.543 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 269262   | 26.975 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.17 | 43   | 102140   | 47.477 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 169263   | 26.619 | ug/L  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101519\  
 Data File : VW013589.D  
 Acq On : 15 Oct 2019 17:59  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

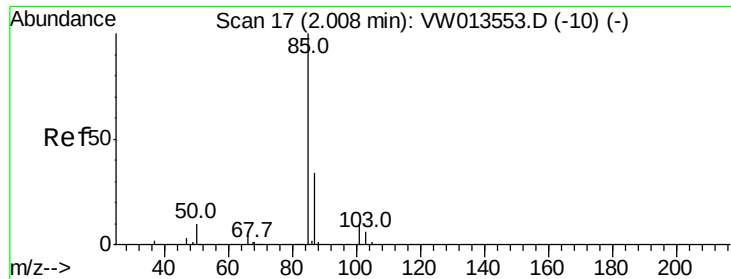
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 15 19:02:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 15 13:46:18 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 76655    | 26.922 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 269238   | 27.341 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 171005   | 27.456 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 266188   | 25.711 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 214483   | 27.045 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 204567   | 26.892 | ug/L  | 97       |
| 34) Benzene                     | 8.32  | 78   | 635141   | 26.701 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 164039   | 26.438 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 291890   | 25.869 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 156956   | 27.390 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.64  | 83   | 194514   | 27.636 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 251671   | 27.376 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 214437   | 53.633 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 691178   | 26.812 | ug/L  | 96       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 200370   | 27.603 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 119436   | 27.457 | ug/L  | 94       |
| 47) Tetrachloroethene           | 10.86 | 164  | 153586   | 27.159 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 152402   | 52.447 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 144531   | 28.220 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 118758   | 27.792 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 444889   | 27.192 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 770730   | 27.009 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.83 | 106  | 299883   | 26.939 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 280828   | 27.026 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 492971   | 27.857 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 768422   | 27.261 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 143599   | 27.941 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 106159   | 27.663 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 90809    | 27.481 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 360929   | 26.217 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 357570   | 26.093 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 327488   | 26.457 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 22696    | 26.559 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 268423   | 25.833 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 229803   | 26.683 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 429904   | 27.406 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 208560   | 27.195 | ug/L  | 99       |

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





#2

Dichlorodifluoromethane

Concen: 25.827 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

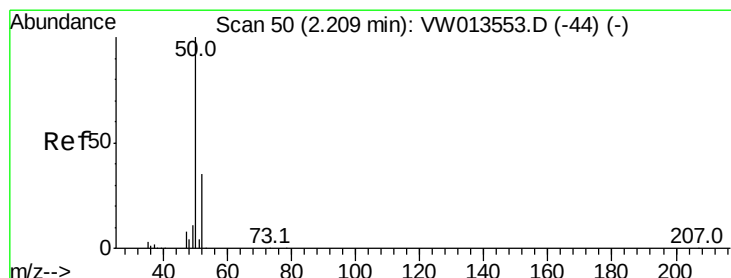
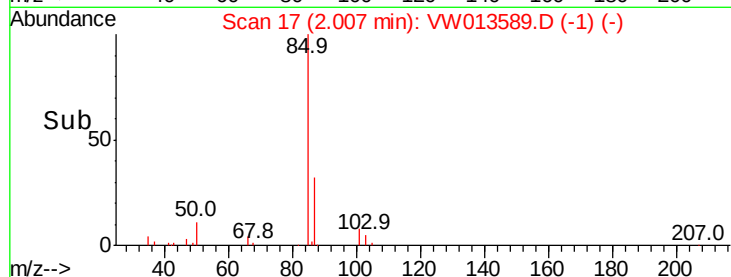
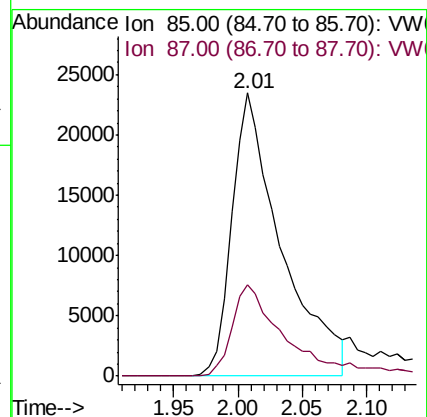
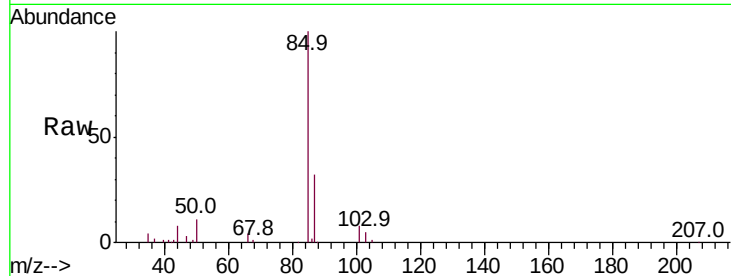
ClientSampled :

Tot Ion: 85 Resp: 62461

Ion Ratio Lower Upper

85 100

87 33.9 20.4 38.0



#3

Chloromethane

Concen: 23.944 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013589.D

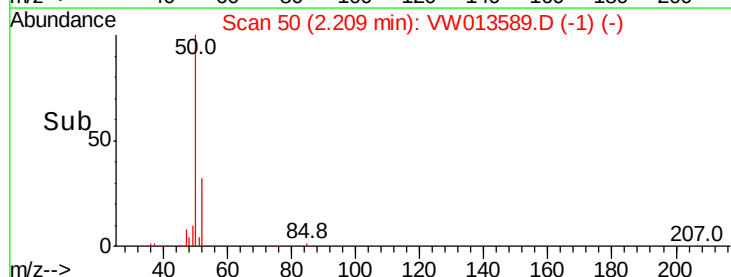
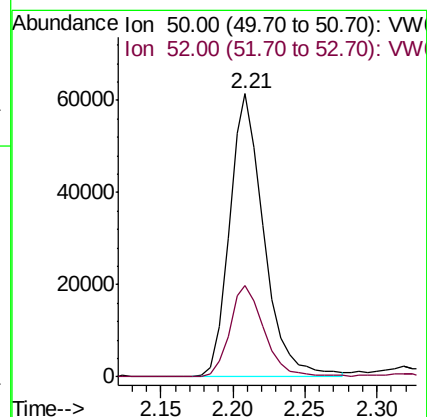
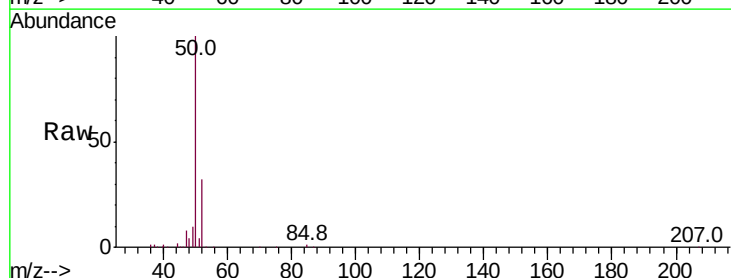
Acq: 15 Oct 2019 17:59

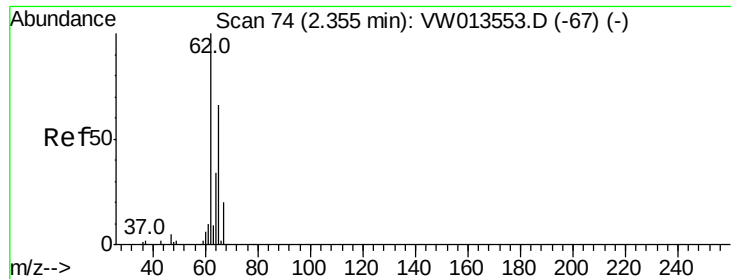
Tgt Ion: 50 Resp: 101746

Ion Ratio Lower Upper

50 100

52 32.5 22.6 42.0





#5

Vinyl chloride

Concen: 25.751 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

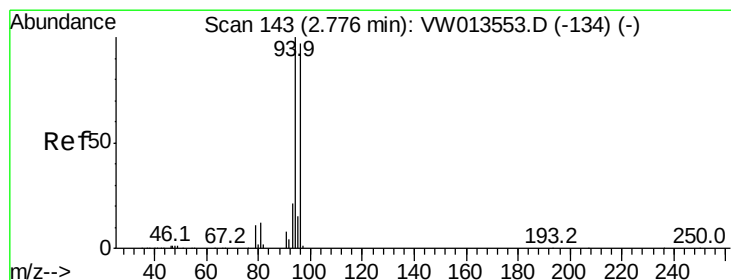
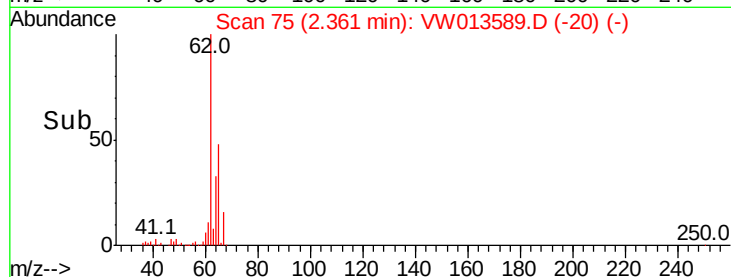
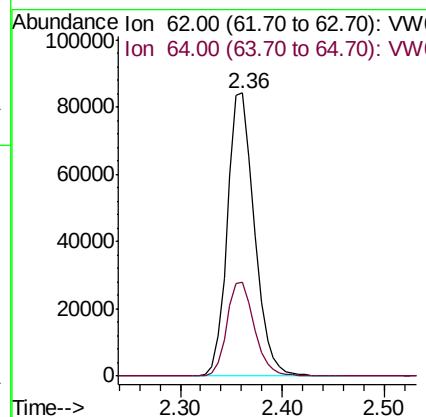
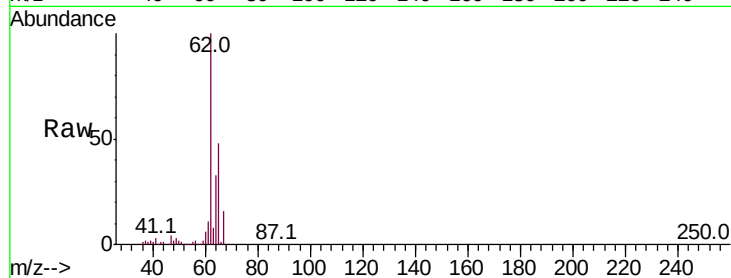
ClientSampleId :

Tot Ion: 62 Resp: 154814

Ion Ratio Lower Upper

62 100

64 33.2 23.9 44.3



#6

Bromomethane

Concen: 25.334 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013589.D

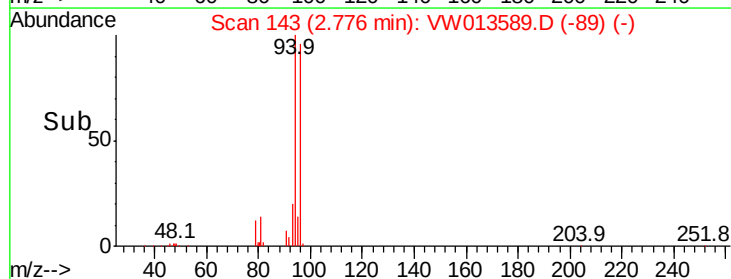
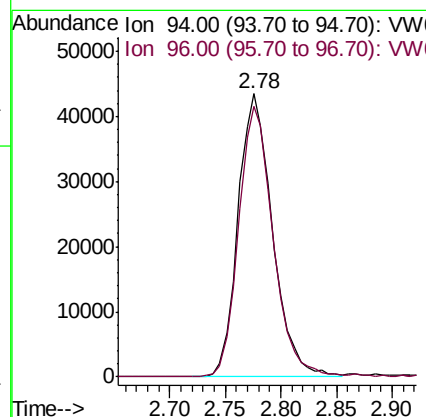
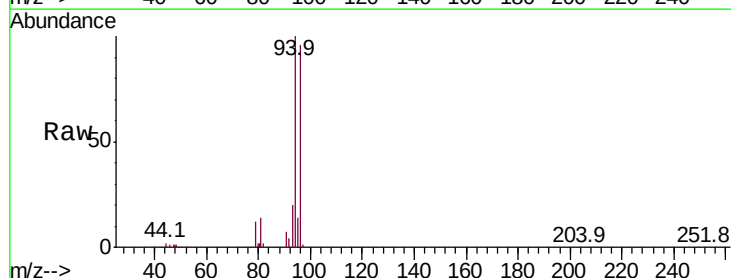
Acq: 15 Oct 2019 17:59

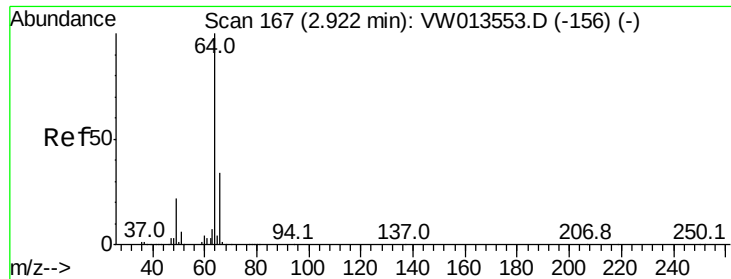
Tgt Ion: 94 Resp: 93291

Ion Ratio Lower Upper

94 100

96 95.7 9.5 179.9





#8

Chloroethane

Concen: 25.542 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

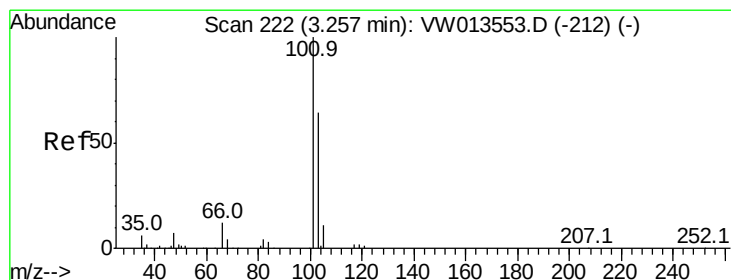
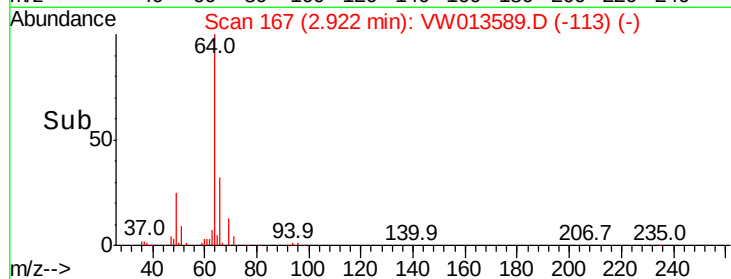
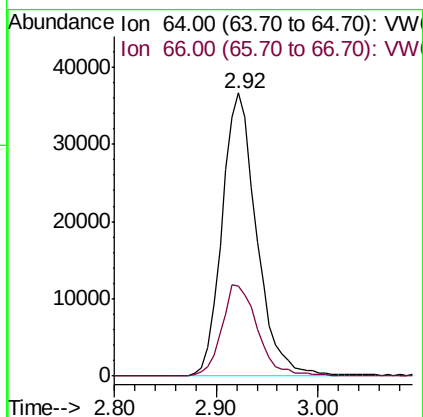
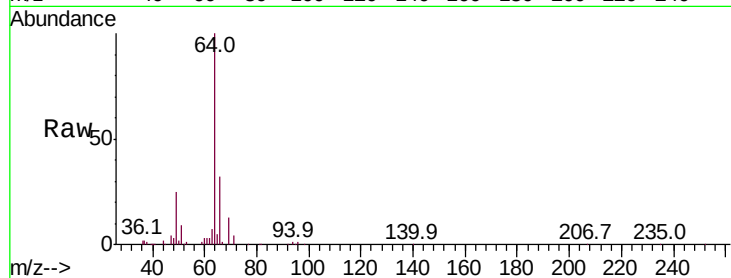
ClientSampleId :

Tot Ion: 64 Resp: 86132

Ion Ratio Lower Upper

64 100

66 31.9 23.2 43.0



#9

Trichlorofluoromethane

Concen: 26.106 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013589.D

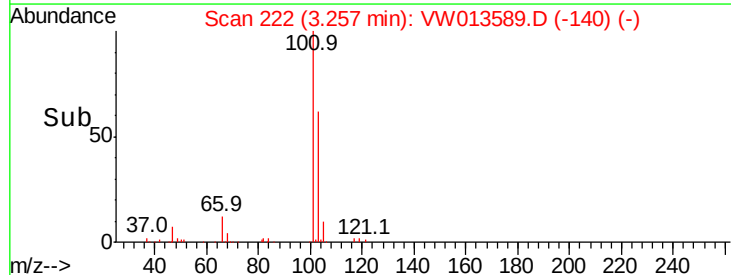
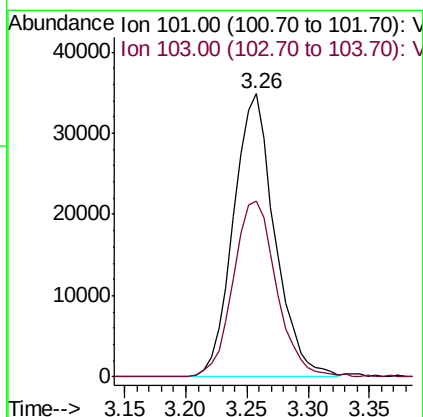
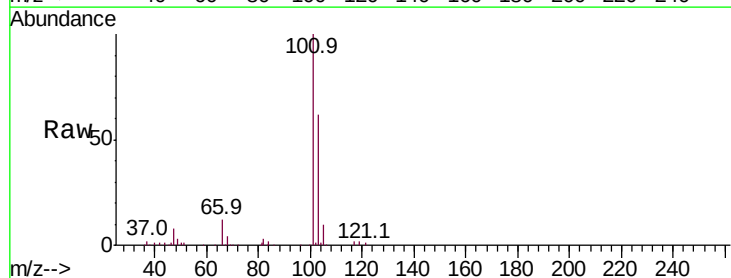
Acq: 15 Oct 2019 17:59

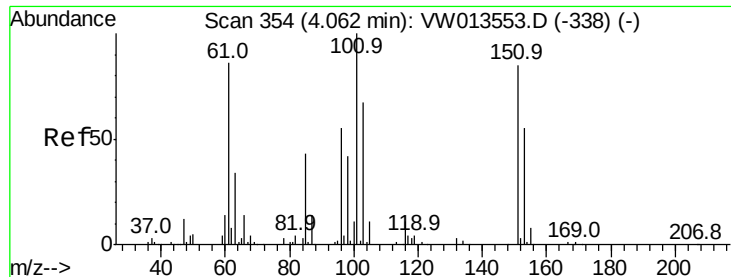
Tgt Ion: 101 Resp: 81821

Ion Ratio Lower Upper

101 100

103 64.9 46.0 85.4





#11

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

Concen: 27.152 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

ClientSampled :

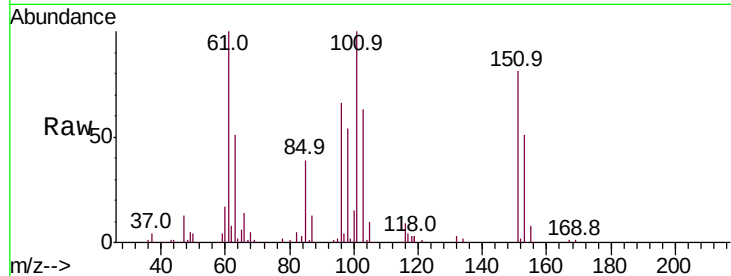
Tot Ion:101 Resp: 151028

Ion Ratio Lower Upper

101 100

85 39.5 32.0 48.0

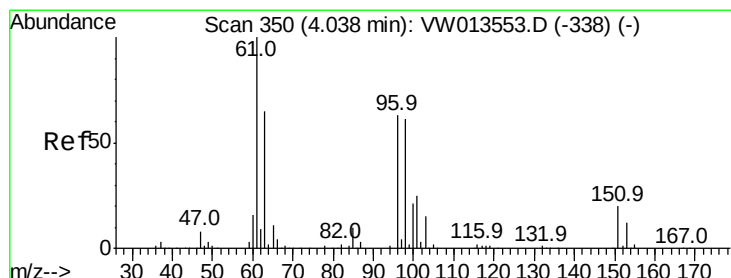
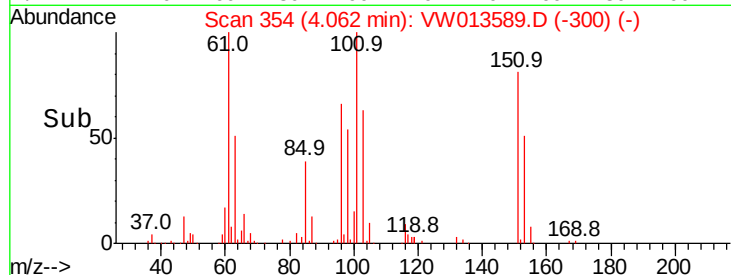
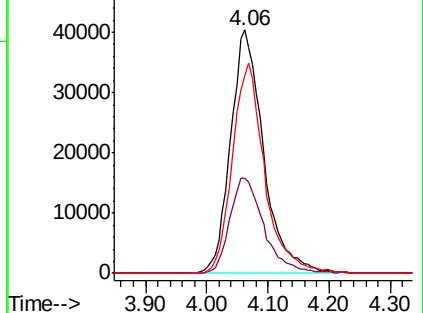
151 83.3 67.0 100.6



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: 26.834 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

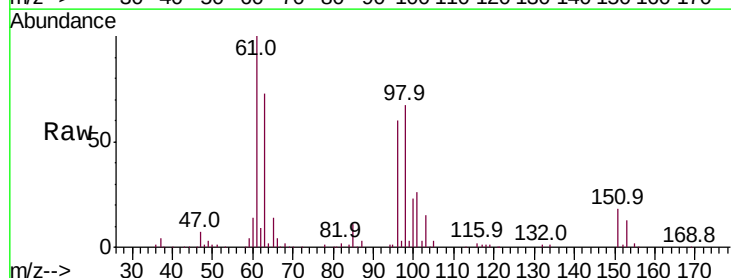
Tgt Ion: 96 Resp: 149506

Ion Ratio Lower Upper

96 100

61 166.8 111.0 206.2

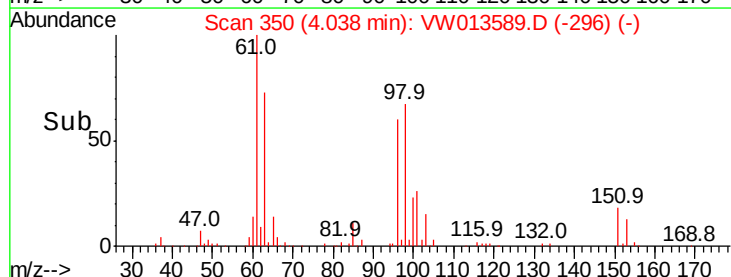
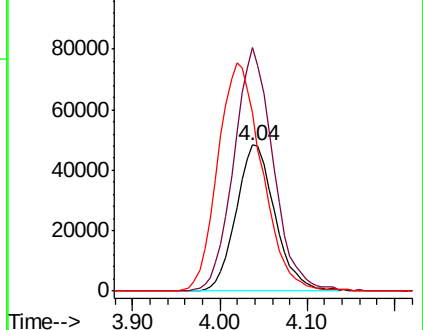
63 122.6 86.3 160.3

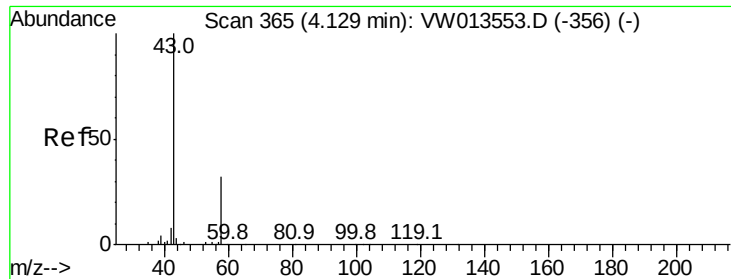


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

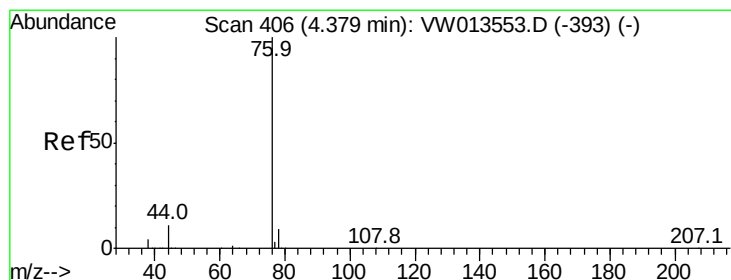
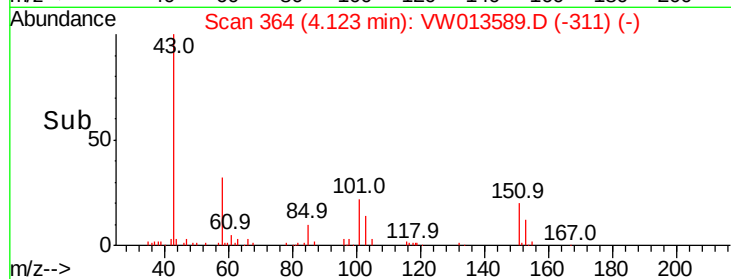
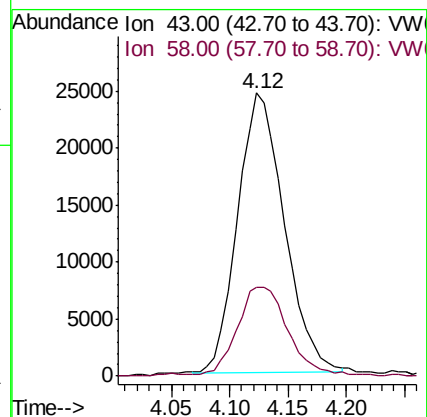
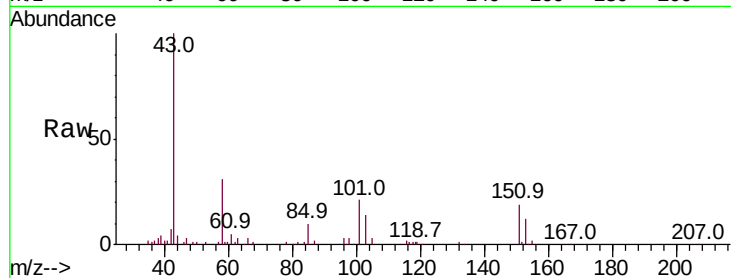




#13  
Acetone  
Concen: 39.116 ug/L  
RT: 4.12 min Scan# 364  
Delta R.T. -0.01 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

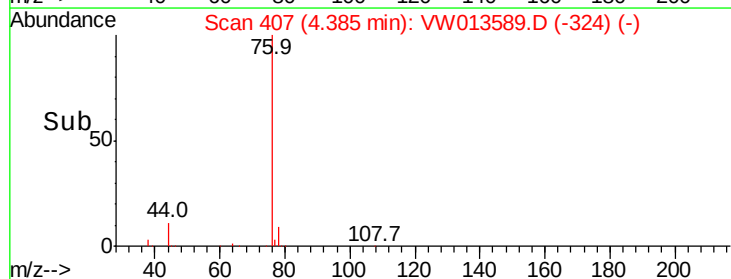
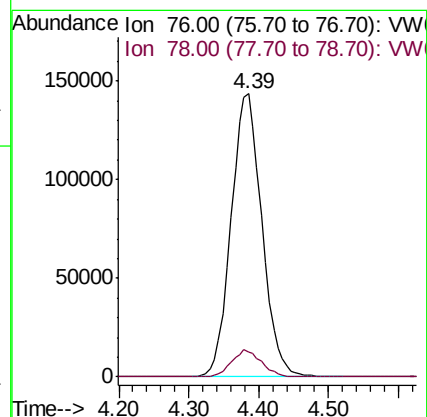
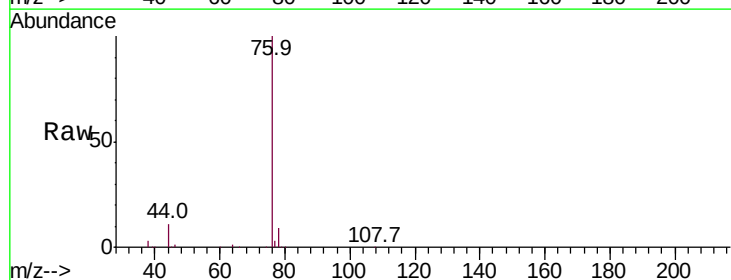
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 68789  
Ion Ratio Lower Upper  
43 100  
58 34.5 0.0 67.8

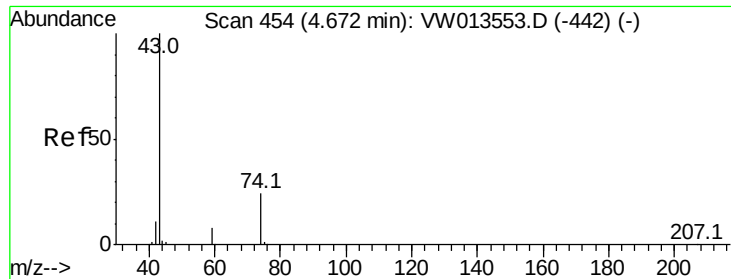


#14  
Carbon disulfide  
Concen: 25.776 ug/L  
RT: 4.39 min Scan# 407  
Delta R.T. 0.01 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion: 76 Resp: 438259  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.1 10.7



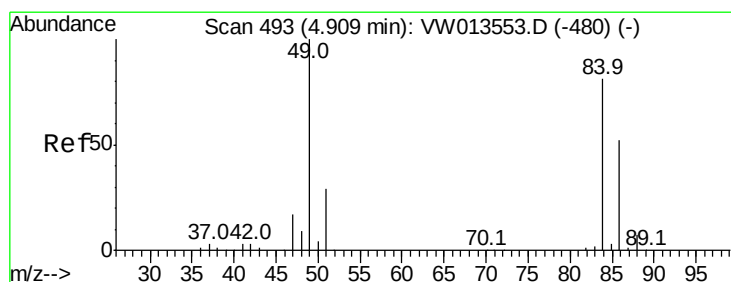
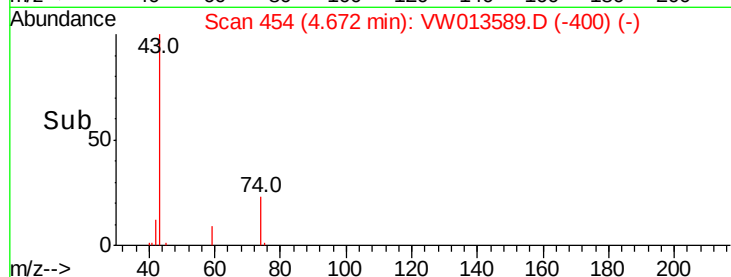
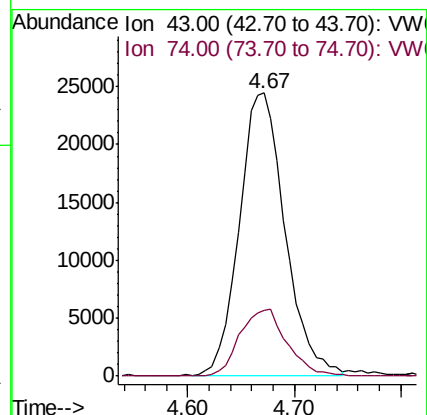
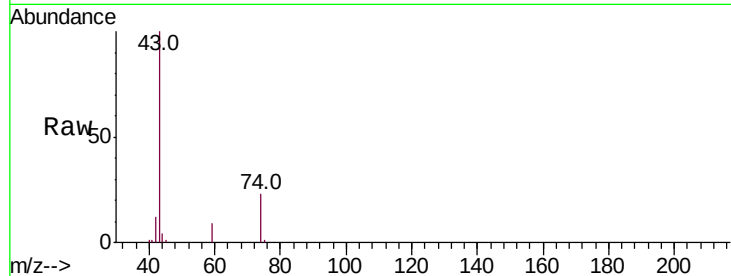




#15  
Methyl Acetate  
Concen: 26.840 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

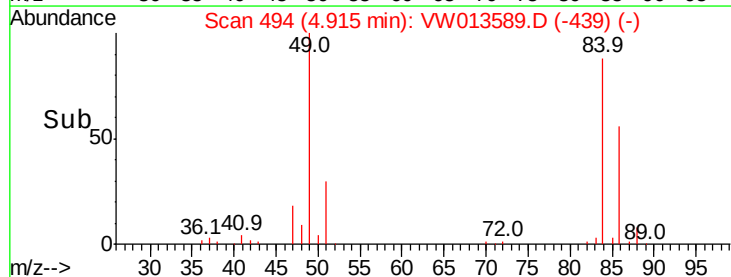
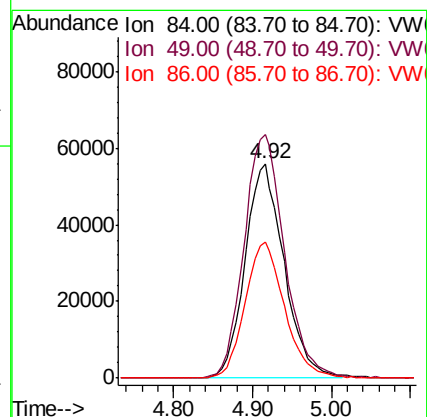
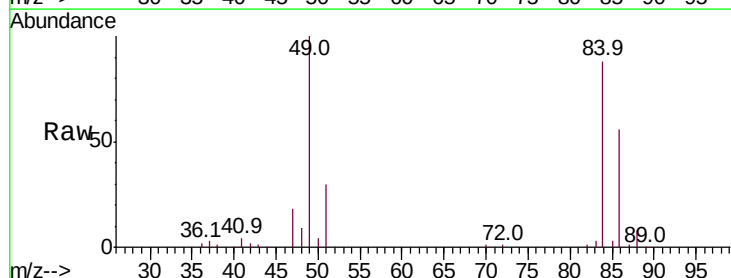
Instrument :  
MSVOA\_W  
ClientSampled :

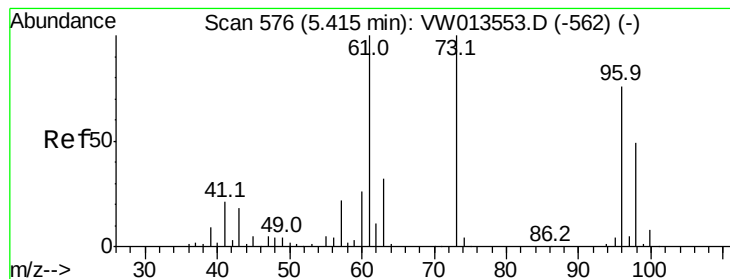
Tot Ion: 43 Resp: 73629  
Ion Ratio Lower Upper  
43 100  
74 24.2 18.7 28.1



#16  
Methylene chloride  
Concen: 28.574 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion: 84 Resp: 192093  
Ion Ratio Lower Upper  
84 100  
49 113.7 81.3 151.1  
86 63.6 46.3 86.1





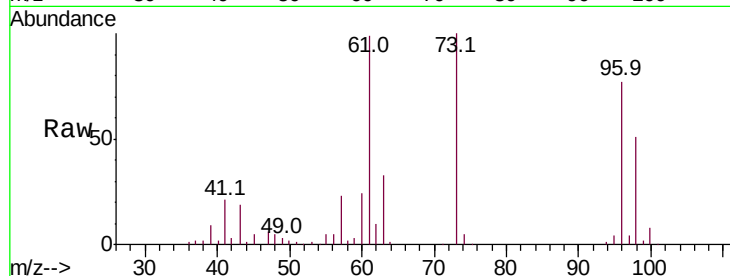
#17

Methvl tert-butyl Ether  
 Concen: 26.927 ug/L  
 RT: 5.42 min Scan# 577  
 Delta R.T. 0.01 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

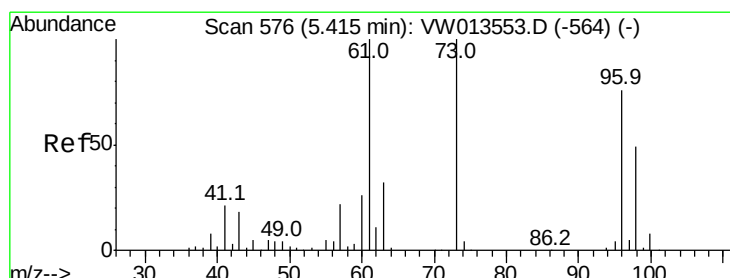
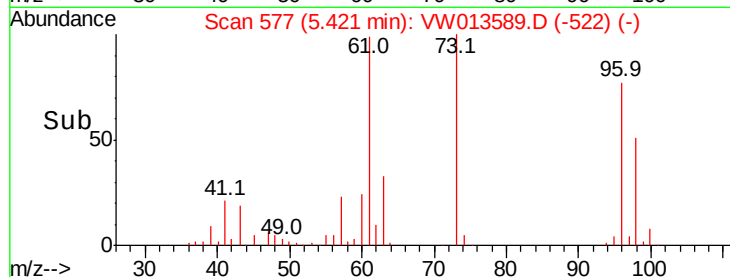
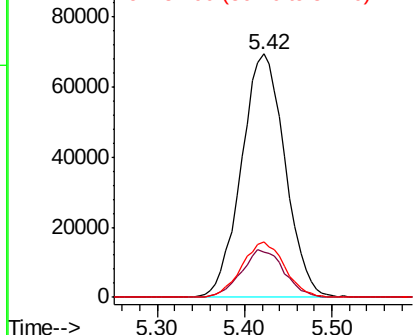
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 73 Resp: 241088  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 19.3  | 15.0  | 22.4  |
| 57  | 22.4  | 18.1  | 27.1  |



Abundance Ion 73.00 (72.70 to 73.70): VW  
 Ion 43.00 (42.70 to 43.70): VW  
 Ion 57.00 (56.70 to 57.70): VW

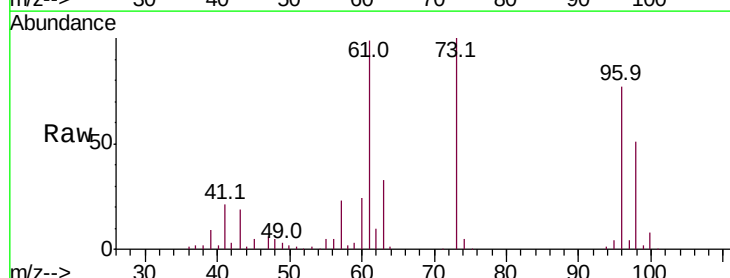


#18

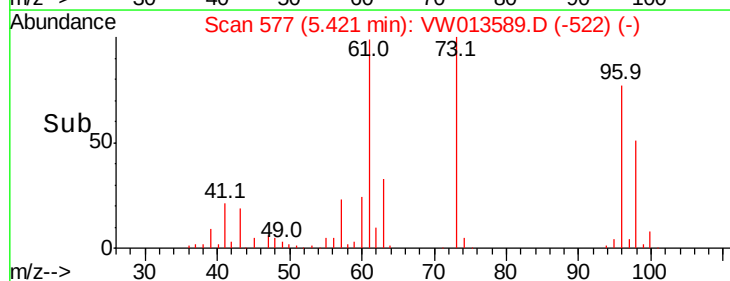
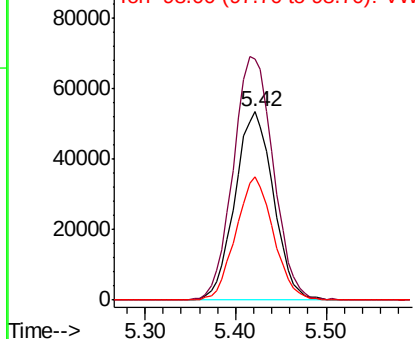
trans-1,2-Dichloroethene  
 Concen: 26.543 ug/L  
 RT: 5.42 min Scan# 577  
 Delta R.T. 0.01 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

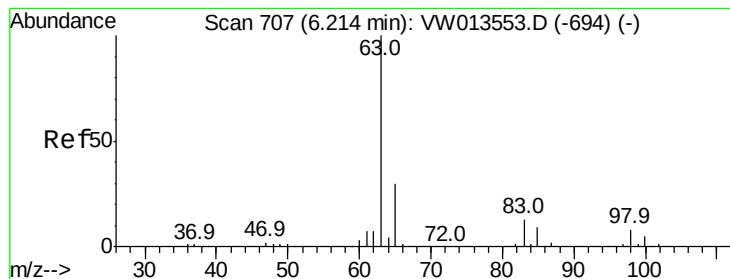
Tgt Ion: 96 Resp: 157808  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 128.4 | 93.7  | 173.9 |
| 98  | 65.8  | 46.1  | 85.7  |



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





#19

1,1-Dichloroethane

Concen: 26.975 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

ClientSampleId :

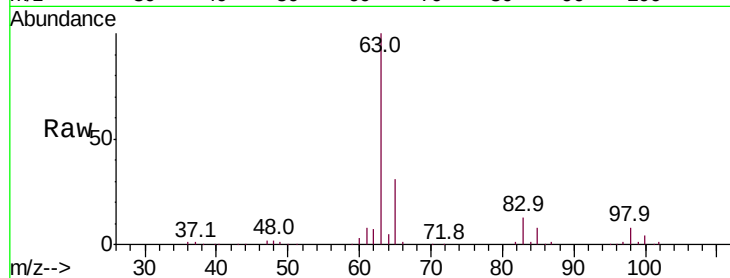
Tot Ion: 63 Resp: 269262

Ion Ratio Lower Upper

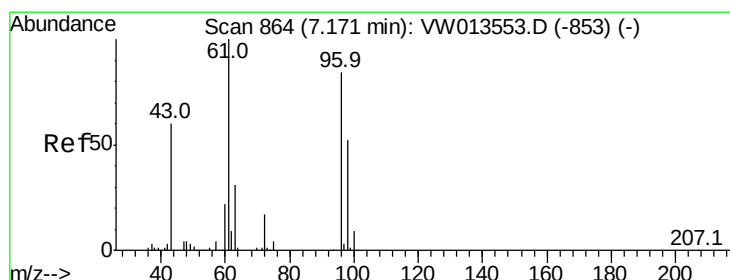
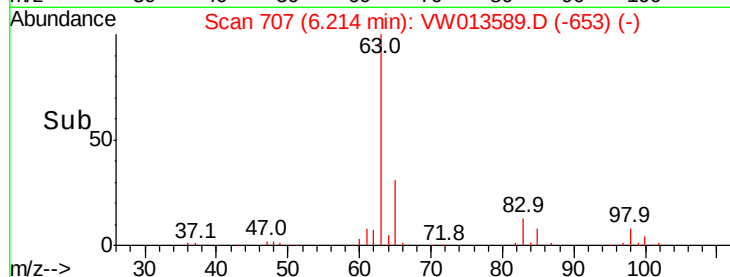
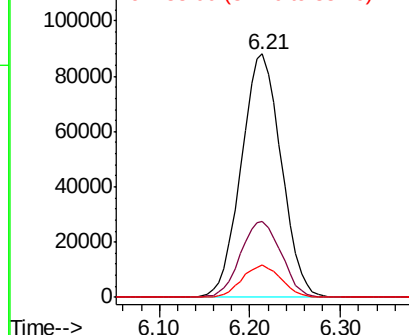
63 100

65 31.5 21.6 40.0

83 13.3 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VW  
120000  
Ion 65.00 (64.70 to 65.70): VW  
100000  
Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 47.477 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW013589.D

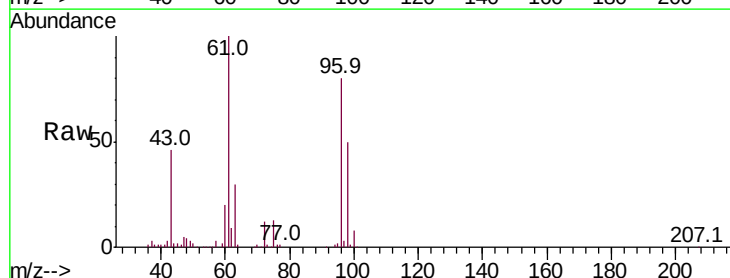
Acq: 15 Oct 2019 17:59

Tgt Ion: 43 Resp: 102140

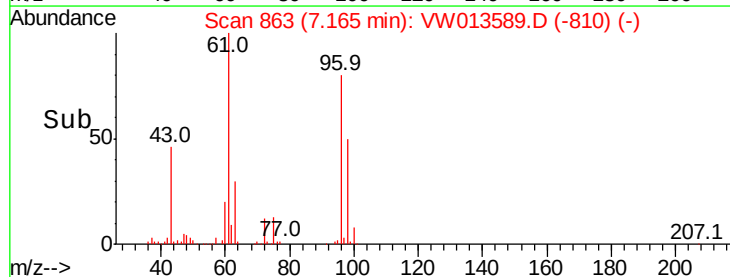
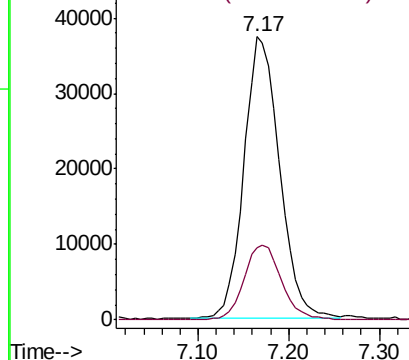
Ion Ratio Lower Upper

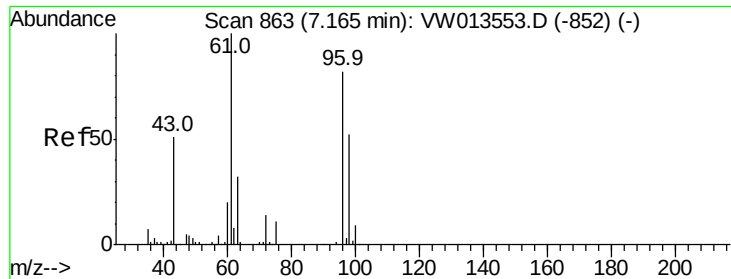
43 100

72 27.9 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VW  
40000  
Ion 72.00 (71.70 to 72.70): VW



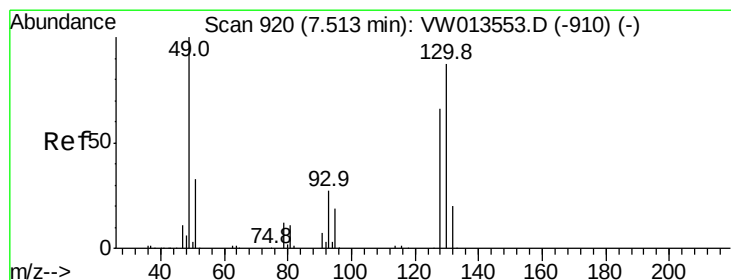
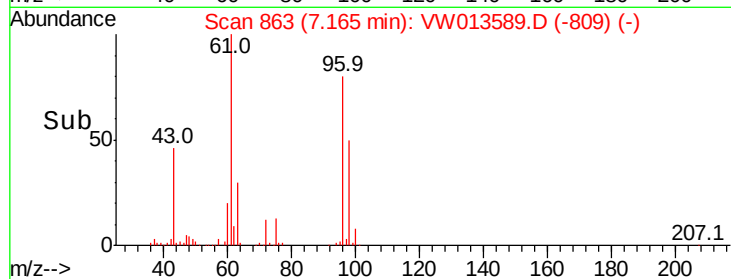
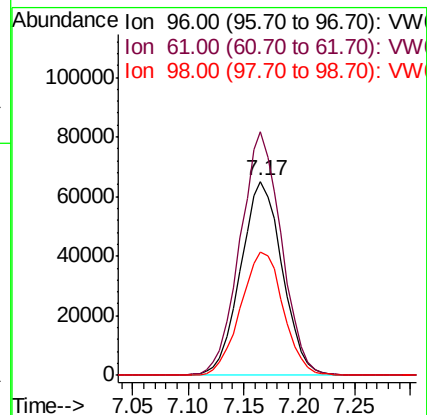
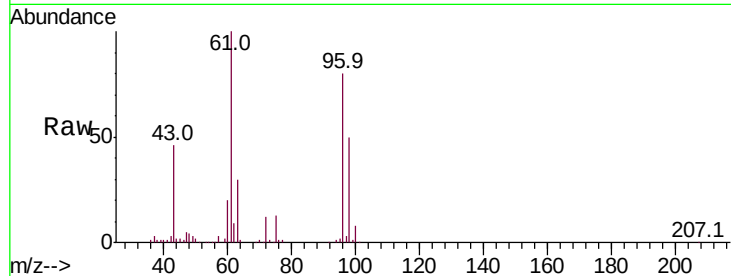


#22

cis-1,2-Dichloroethene  
Concen: 26.619 ug/L  
RT: 7.17 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Instrument :  
MSVOA\_W  
ClientSampled :

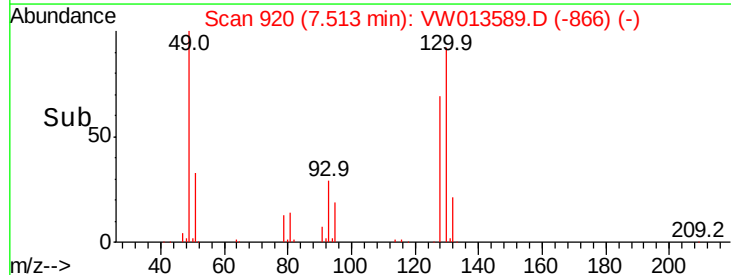
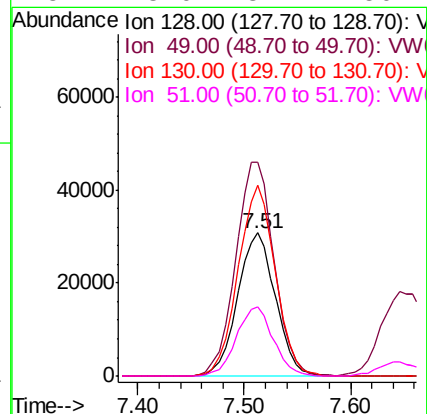
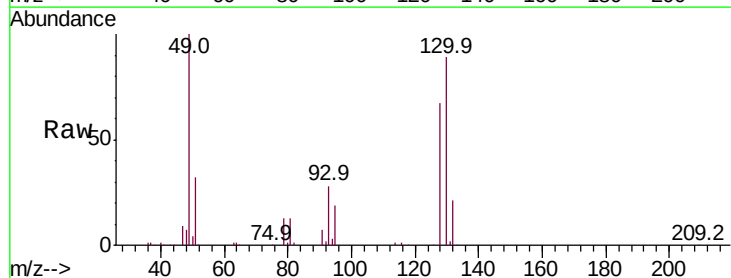
Tot Ion: 96 Resp: 169263  
Ion Ratio Lower Upper  
96 100  
61 125.3 86.0 159.8  
98 63.2 44.4 82.5

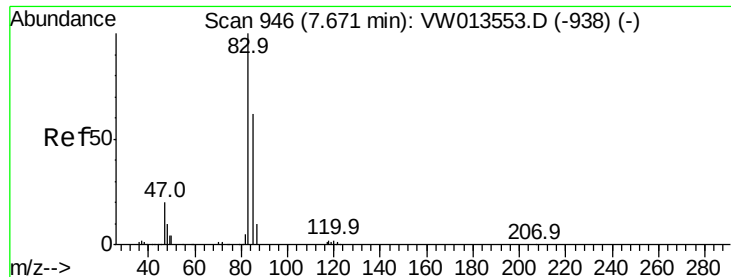


#23

Bromochloromethane  
Concen: 26.922 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion: 128 Resp: 76655  
Ion Ratio Lower Upper  
128 100  
49 149.1 108.0 200.6  
130 133.0 89.4 166.0  
51 48.0 37.4 56.2





#25

Chloroform

Concen: 27.341 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

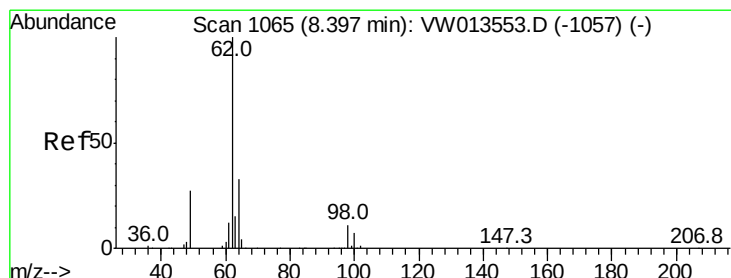
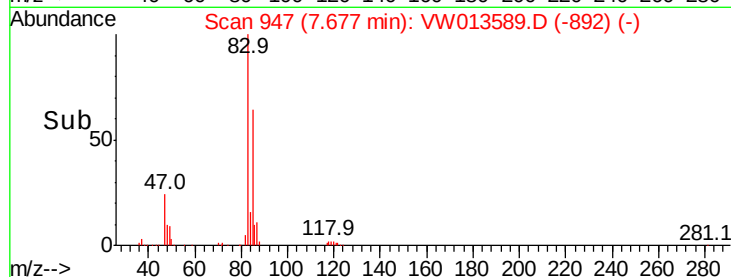
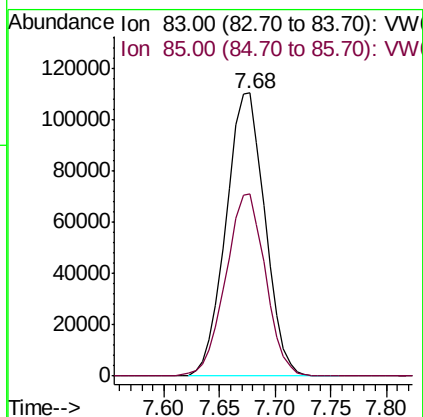
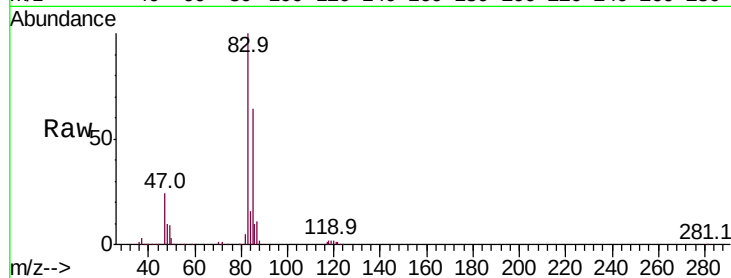
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 83 Resp: 269238

Ion Ratio Lower Upper

83 100

85 65.5 46.1 85.5



#27

1,2-Dichloroethane

Concen: 27.456 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW013589.D

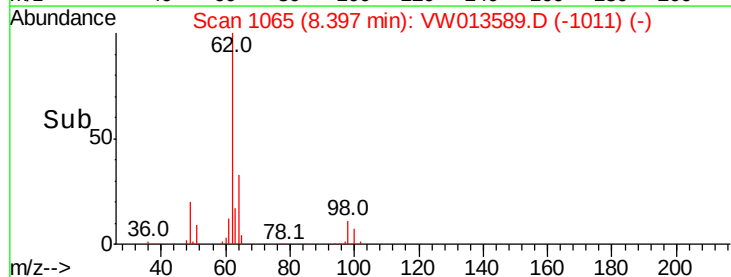
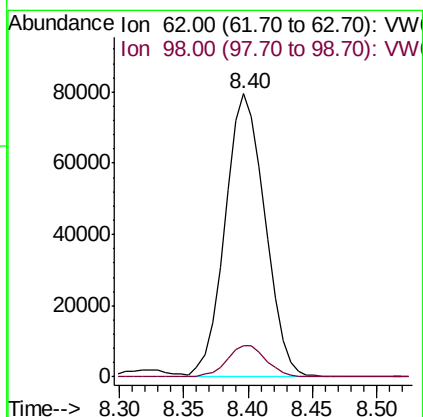
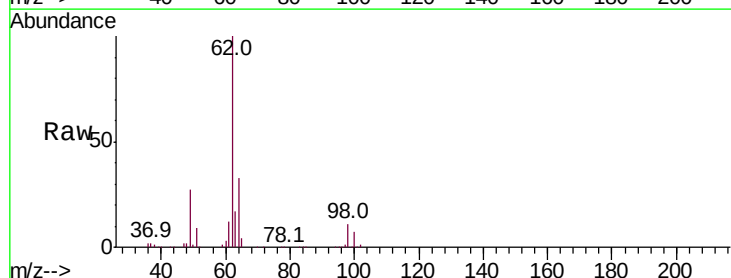
Acq: 15 Oct 2019 17:59

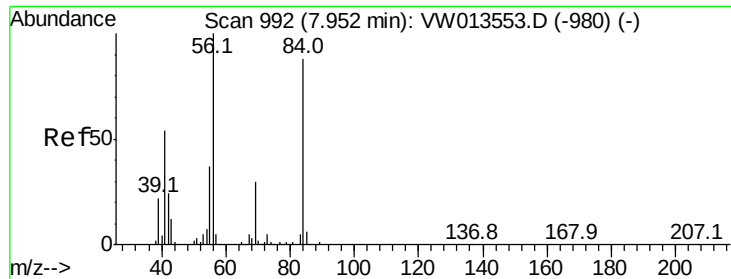
Tgt Ion: 62 Resp: 171005

Ion Ratio Lower Upper

62 100

98 10.8 9.0 13.4

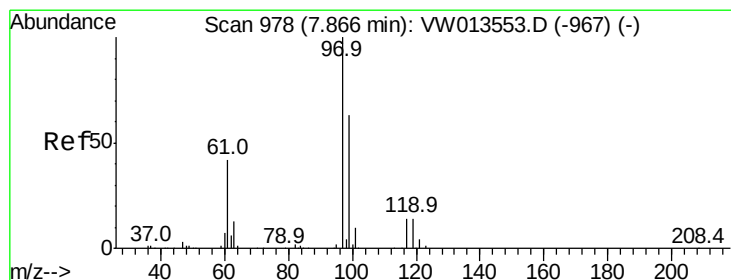
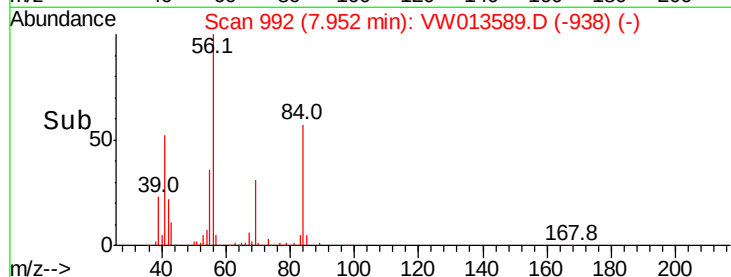
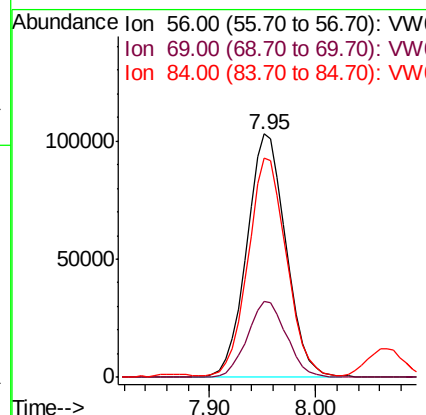
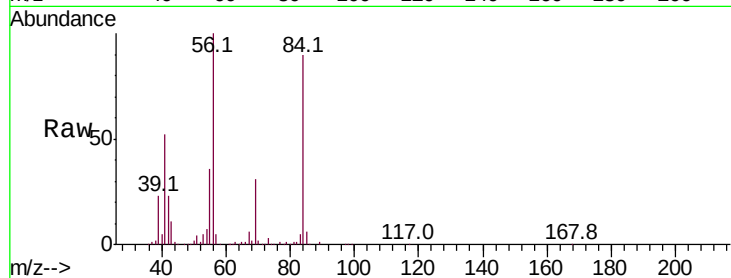




#30  
Cyclohexane  
Concen: 25.711 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

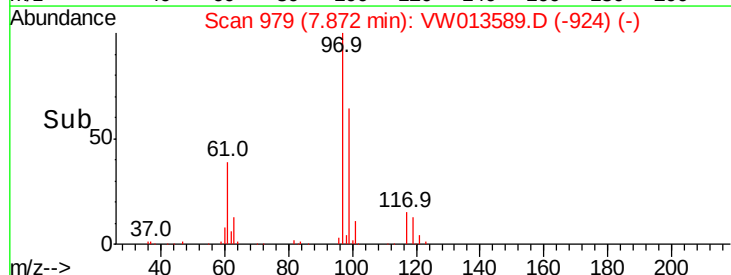
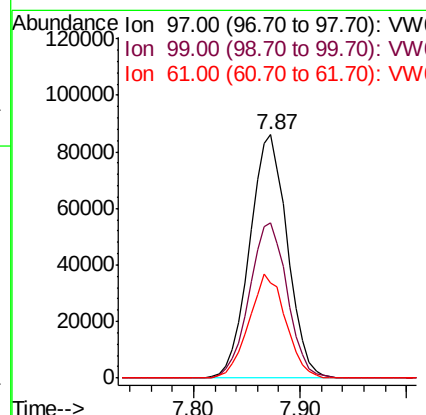
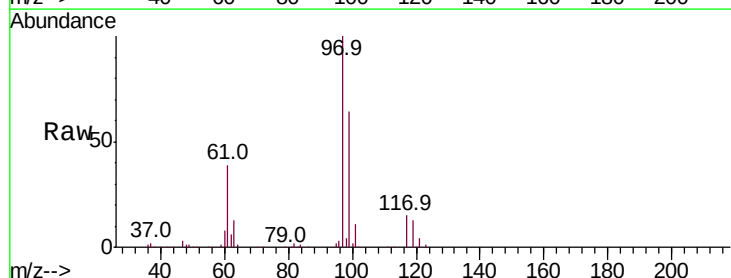
Instrument :  
MSVOA\_W  
ClientSampled :

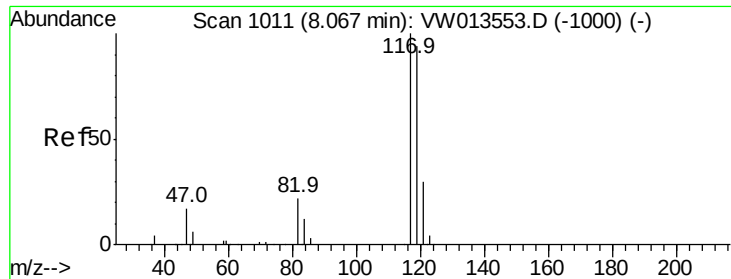
Tot Ion: 56 Resp: 266188  
Ion Ratio Lower Upper  
56 100  
69 31.0 24.7 37.1  
84 89.0 70.4 105.6



#31  
1,1,1-Trichloroethane  
Concen: 27.045 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. 0.01 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion: 97 Resp: 214483  
Ion Ratio Lower Upper  
97 100  
99 64.2 51.8 77.8  
61 41.7 33.7 50.5





#32

Carbon tetrachloride

Concen: 26.892 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

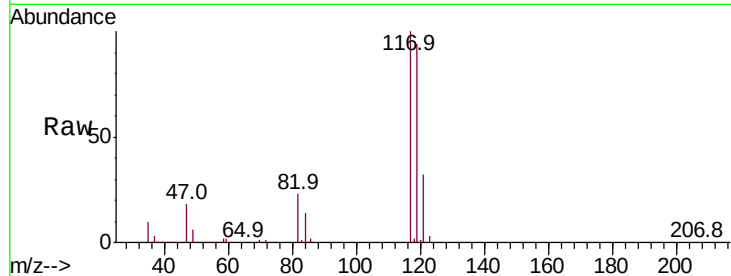
ClientSampleId :

Tot Ion:117 Resp: 204567

Ion Ratio Lower Upper

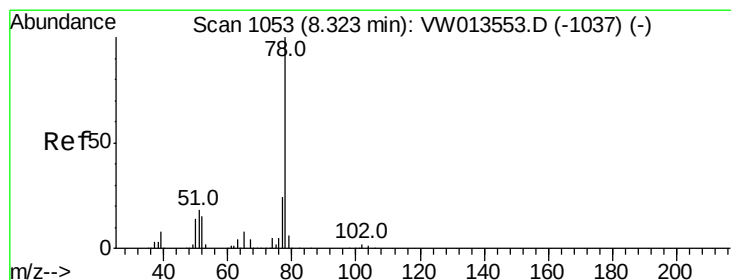
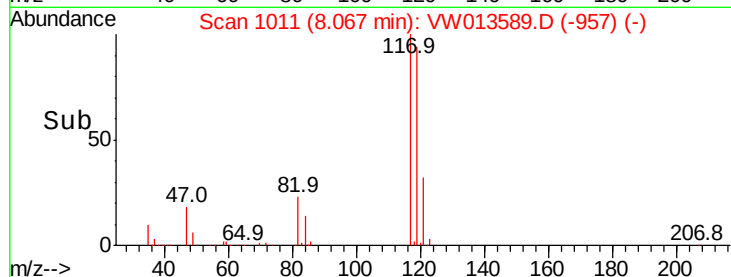
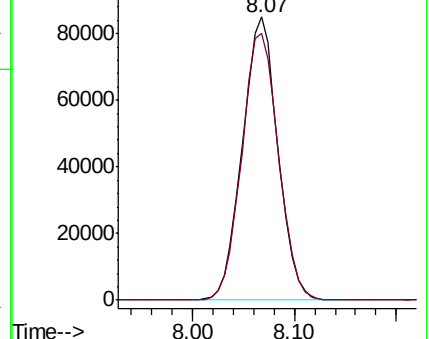
117 100

119 97.6 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.701 ug/L

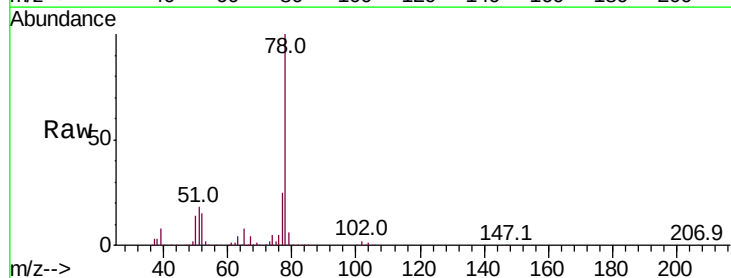
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

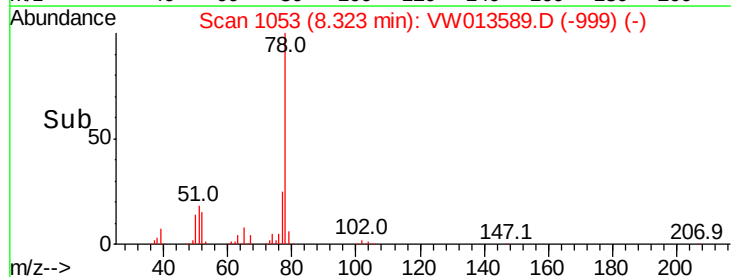
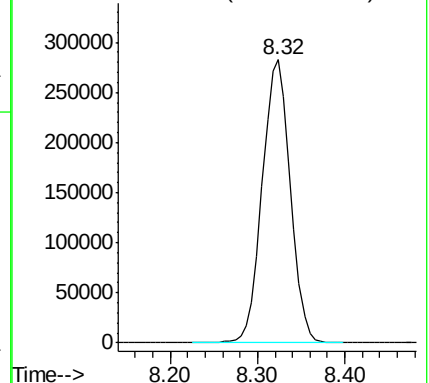
Lab File: VW013589.D

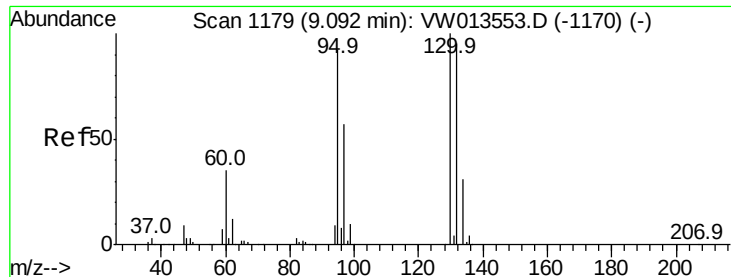
Acq: 15 Oct 2019 17:59

Tgt Ion: 78 Resp: 635141



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 26.438 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 95 Resp: 164039

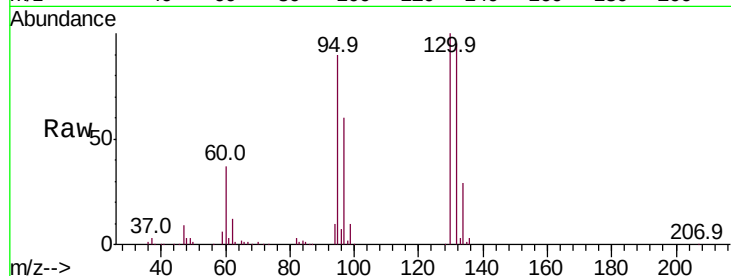
Ion Ratio Lower Upper

95 100

97 65.7 45.1 83.7

132 104.2 73.6 136.8

130 110.2 76.3 141.7

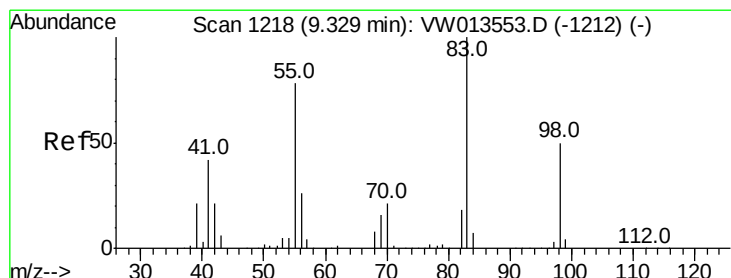
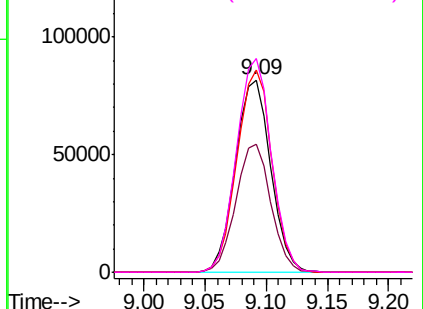
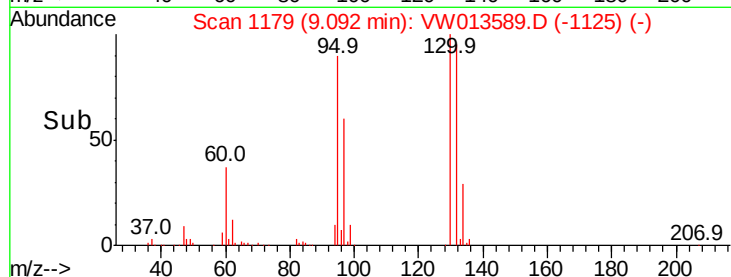


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 25.869 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

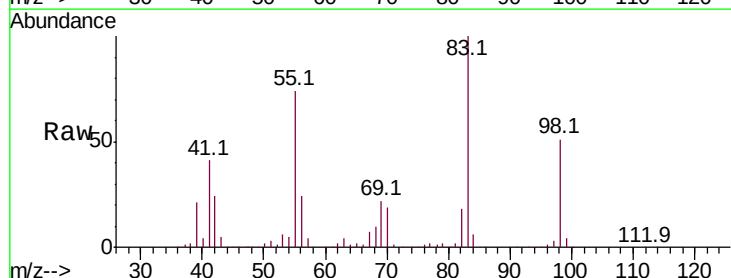
Tgt Ion: 83 Resp: 291890

Ion Ratio Lower Upper

83 100

55 75.0 60.4 90.6

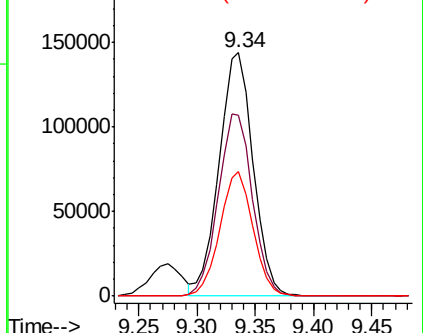
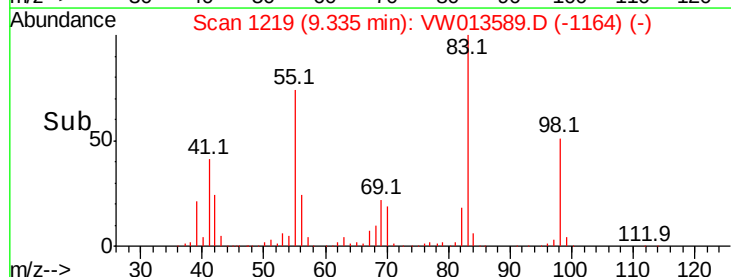
98 49.6 39.3 58.9



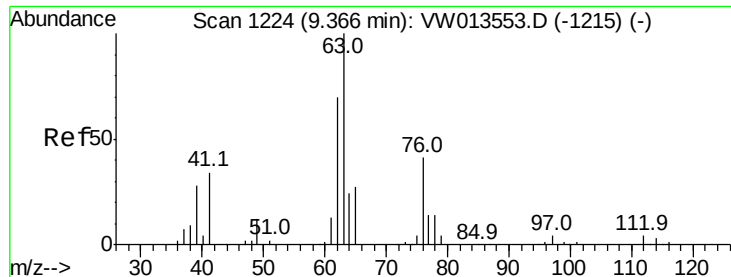
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



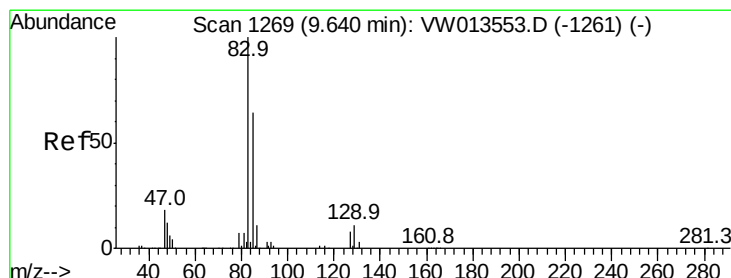
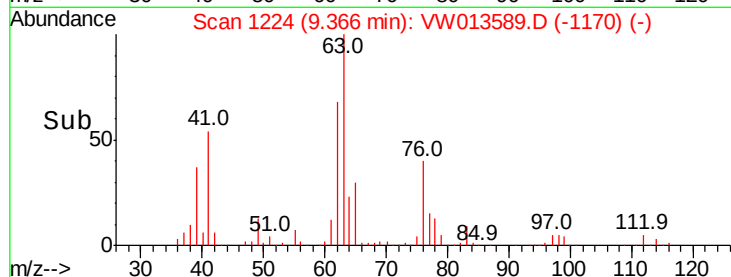
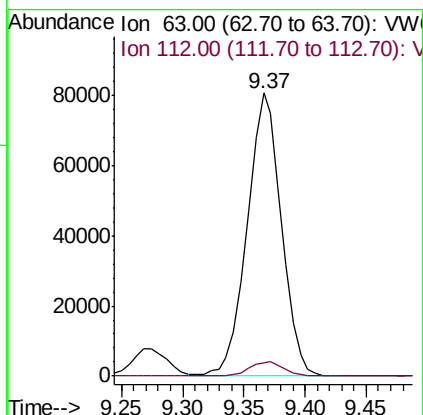
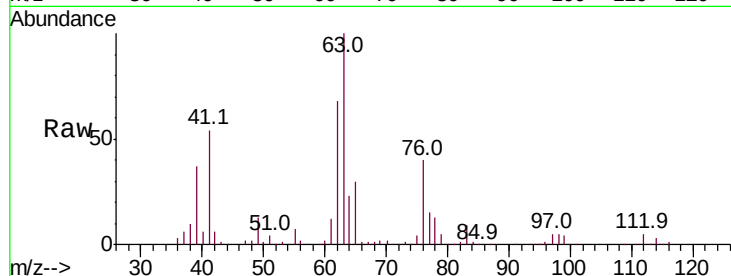




#40  
 1,2-Dichloropropane  
 Concen: 27.390 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

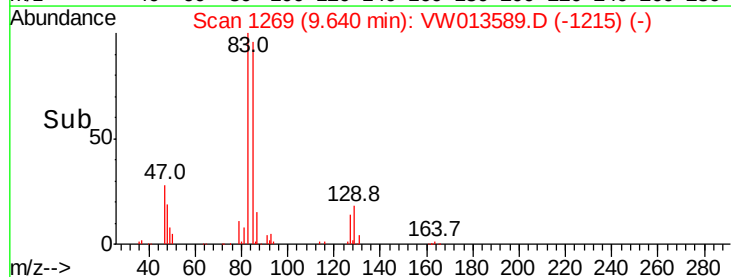
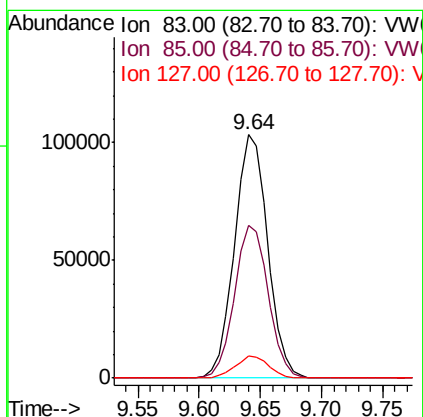
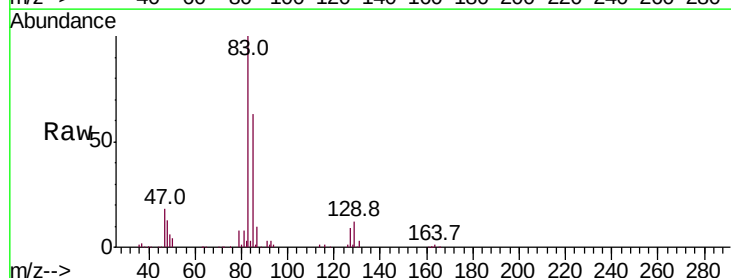
Instrument :  
 MSVOA\_W  
 ClientSampleId :

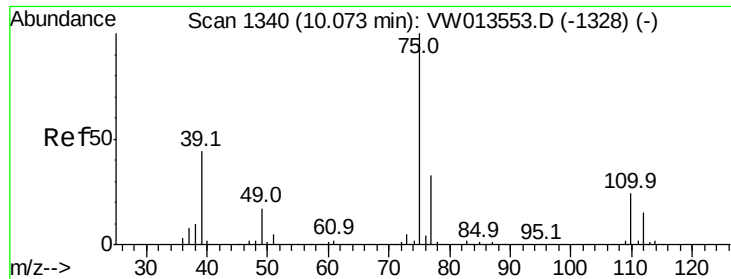
Tot Ion: 63 Resp: 156956  
 Ion Ratio Lower Upper  
 63 100  
 112 5.1 3.8 5.8



#41  
 Bromodichloromethane  
 Concen: 27.636 ug/L  
 RT: 9.64 min Scan# 1269  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

Tgt Ion: 83 Resp: 194514  
 Ion Ratio Lower Upper  
 83 100  
 85 62.9 45.1 83.9  
 127 9.2 7.1 10.7





#42

cis-1,3-Dichloropropene

Concen: 27.376 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

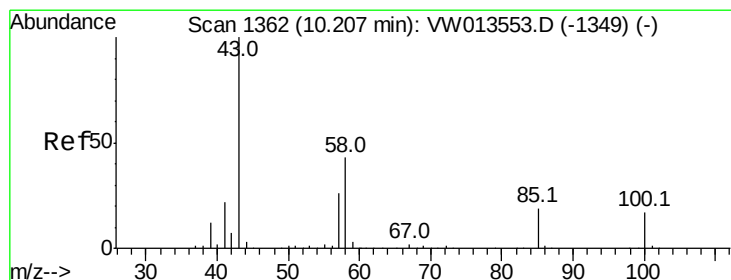
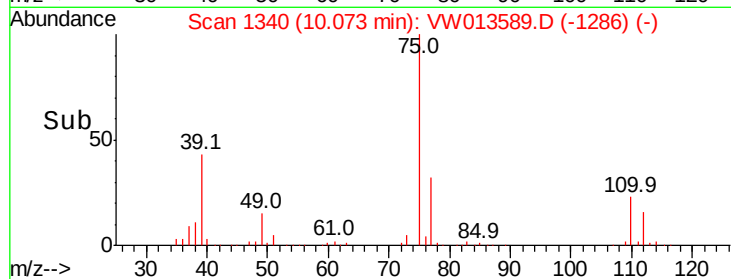
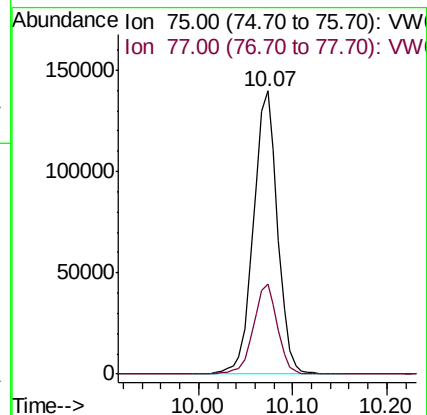
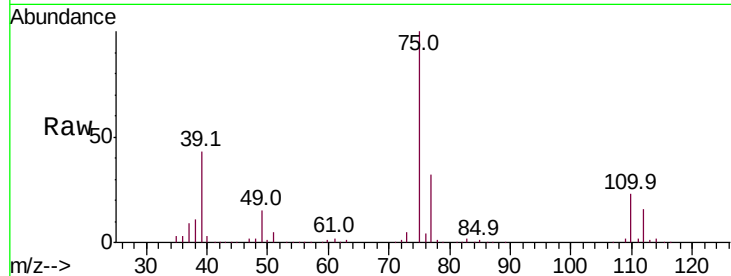
ClientSampled :

Tot Ion: 75 Resp: 251671

Ion Ratio Lower Upper

75 100

77 31.7 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 53.633 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

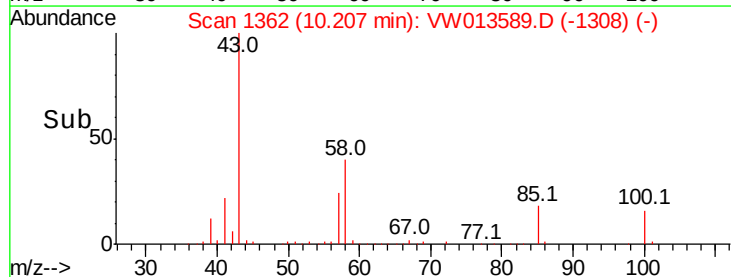
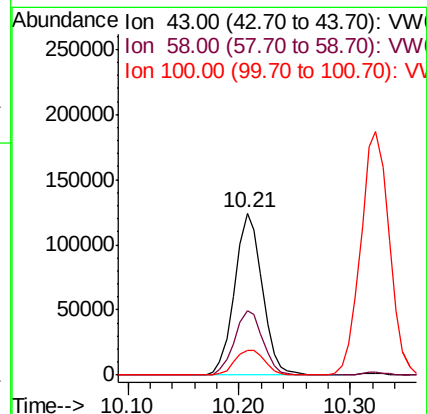
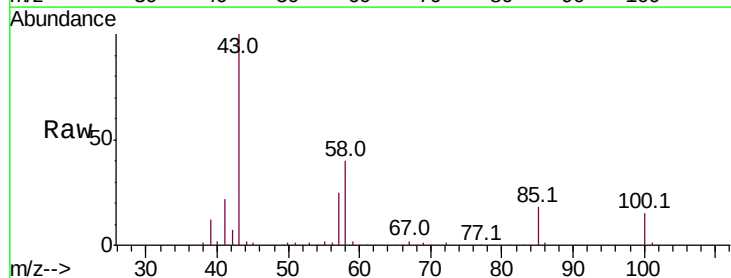
Tgt Ion: 43 Resp: 214437

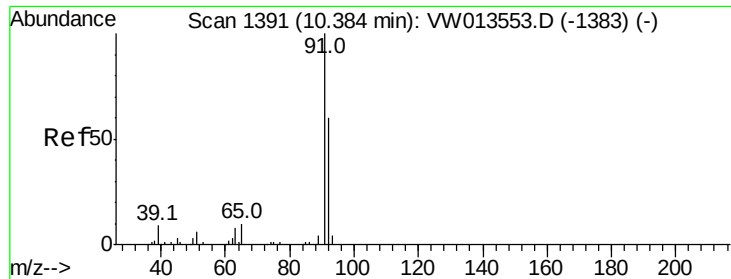
Ion Ratio Lower Upper

43 100

58 40.6 32.0 48.0

100 16.6 13.7 20.5





#44

Toluene

Concen: 26.812 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

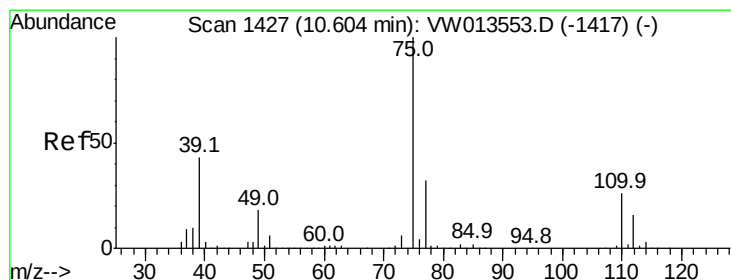
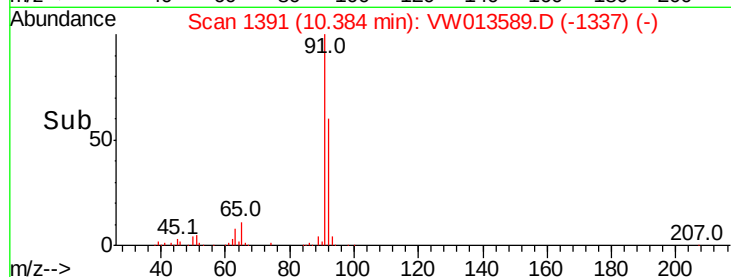
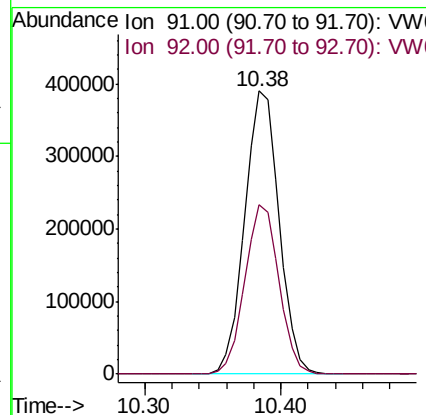
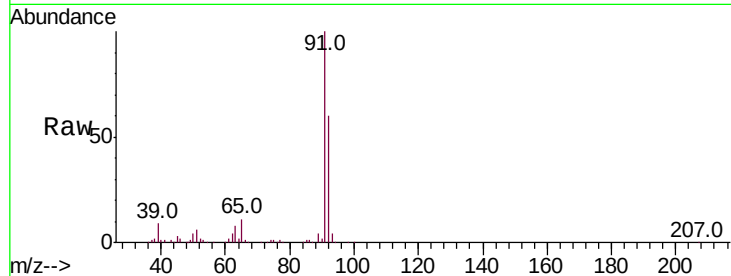
ClientSampled :

Tot Ion: 91 Resp: 691178

Ion Ratio Lower Upper

91 100

92 59.9 40.0 74.4



#45

trans-1,3-Dichloropropene

Concen: 27.603 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013589.D

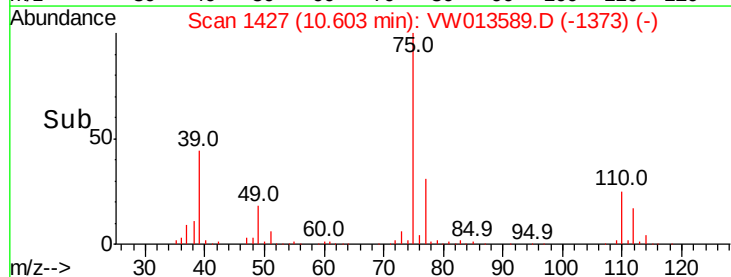
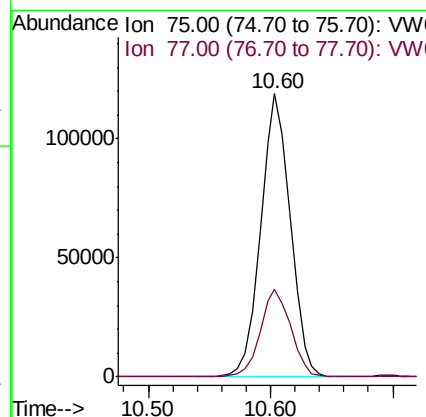
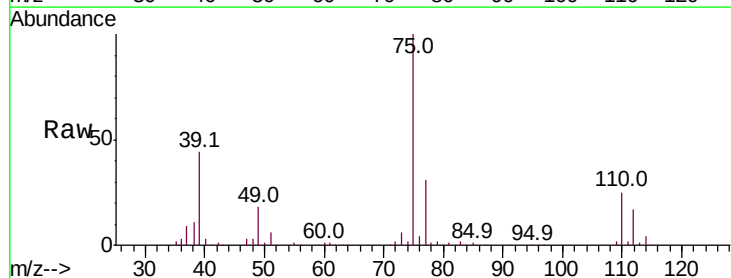
Acq: 15 Oct 2019 17:59

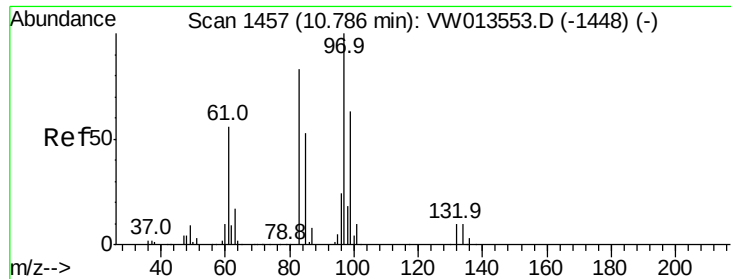
Tgt Ion: 75 Resp: 200370

Ion Ratio Lower Upper

75 100

77 30.9 23.0 42.6

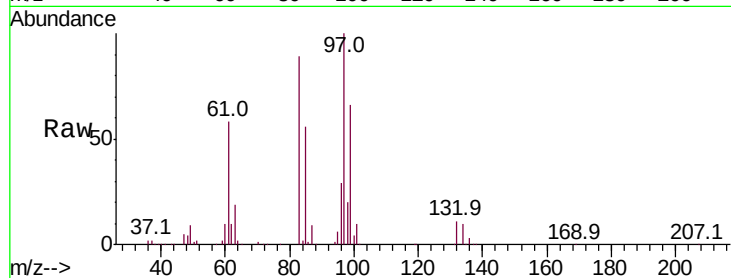




#46  
 1,1,2-Trichloroethane  
 Concen: 27.457 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97      | 100  |       |       |
| 83      | 88.7 | 57.5  | 106.9 |
| 85      | 56.2 | 36.8  | 68.4  |
| 99      | 65.7 | 44.0  | 81.6  |



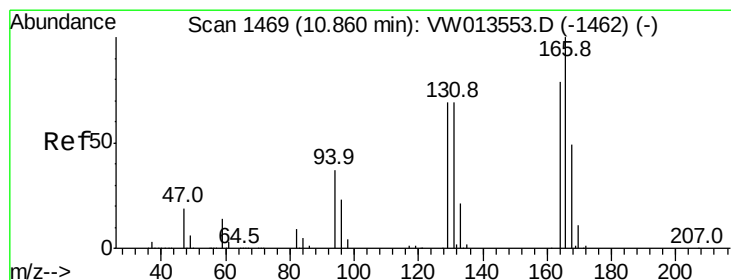
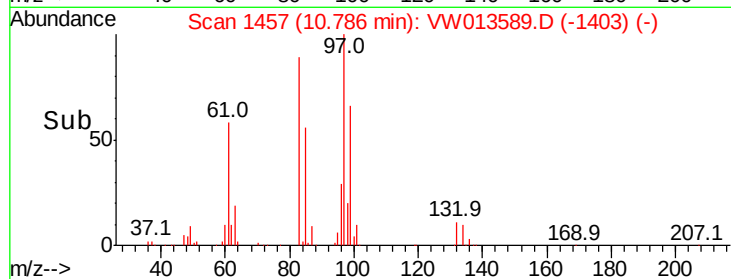
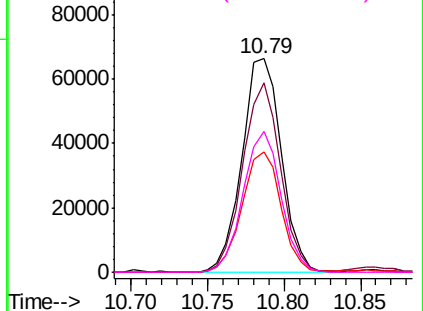
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

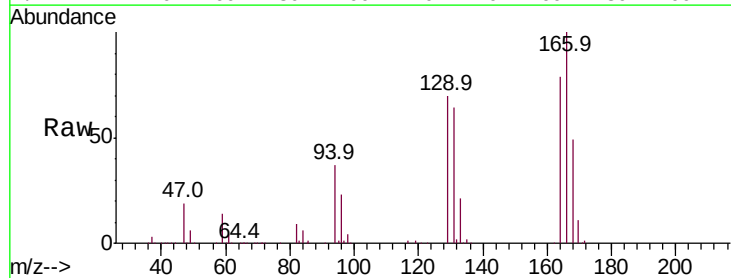
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47  
 Tetrachloroethene  
 Concen: 27.159 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 88.6  | 60.2  | 111.8 |
| 131     | 81.0  | 57.0  | 105.9 |
| 166     | 126.4 | 91.2  | 169.4 |



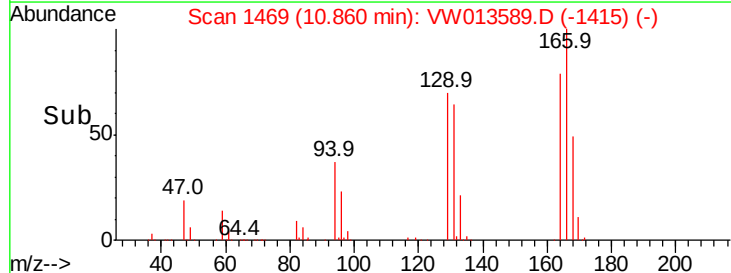
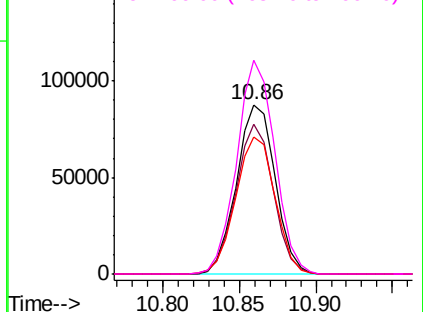
Abundance

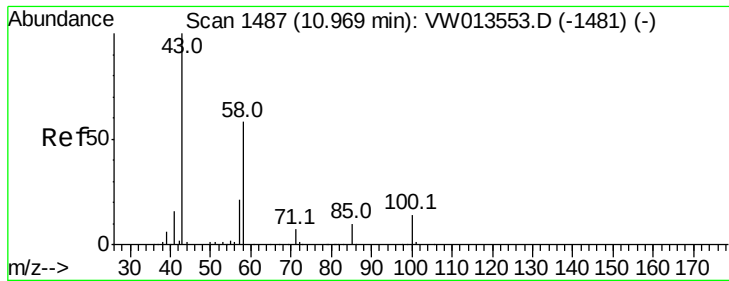
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

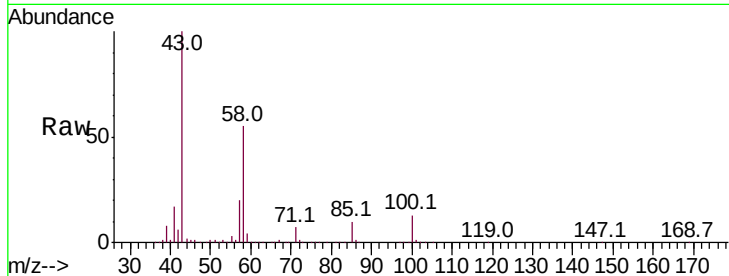




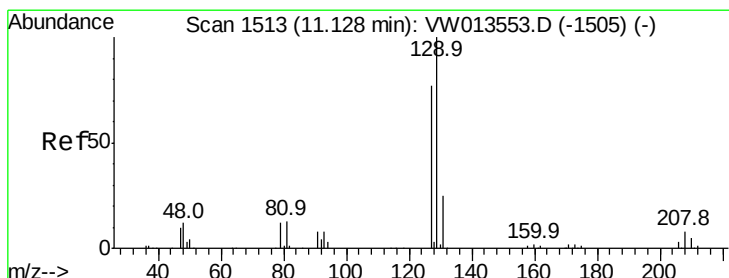
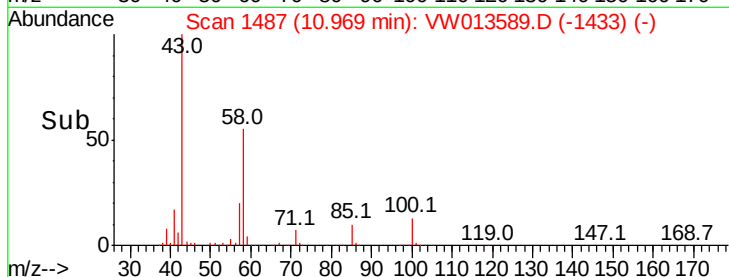
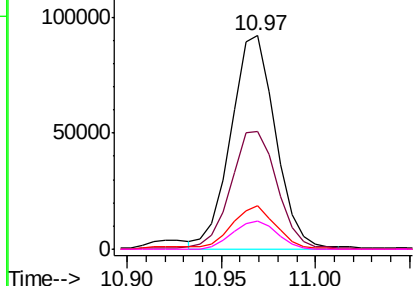
#49  
2-Hexanone  
Concen: 52.447 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 152402  
Ion Ratio Lower Upper  
43 100  
58 57.5 45.2 67.8  
57 20.0 15.8 23.8  
100 13.2 11.0 16.6

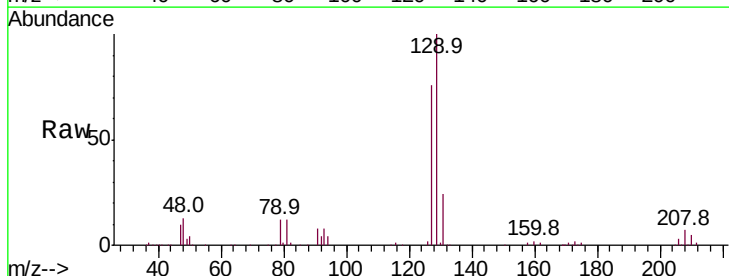


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW  
Ion 57.00 (56.70 to 57.70): VW  
Ion 100.00 (99.70 to 100.70): VW

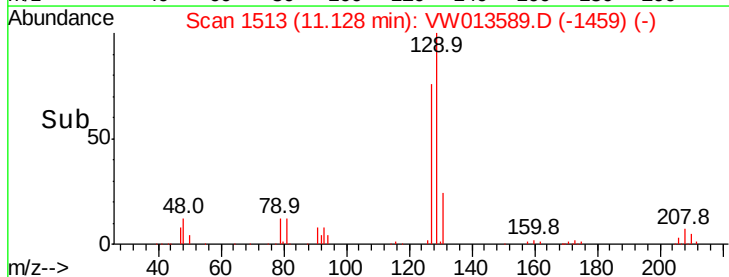
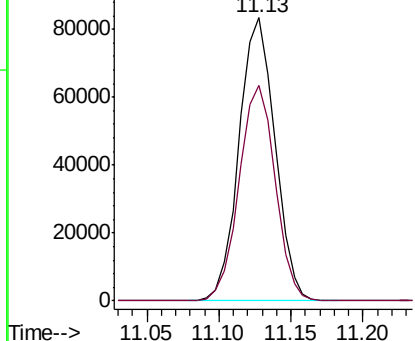


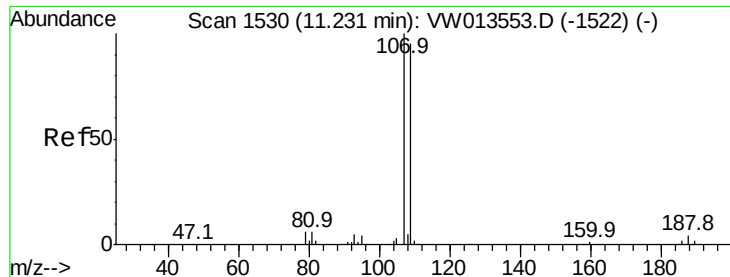
#50  
Dibromochloromethane  
Concen: 28.220 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion: 129 Resp: 144531  
Ion Ratio Lower Upper  
129 100  
127 76.1 54.7 101.5



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

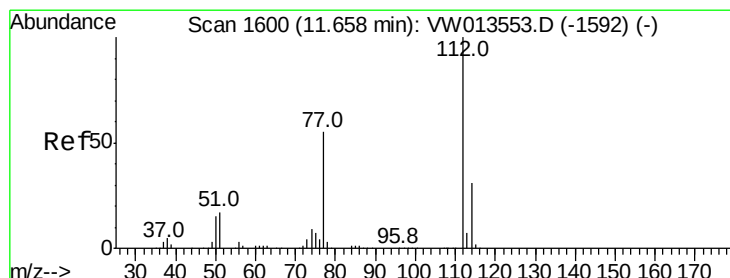
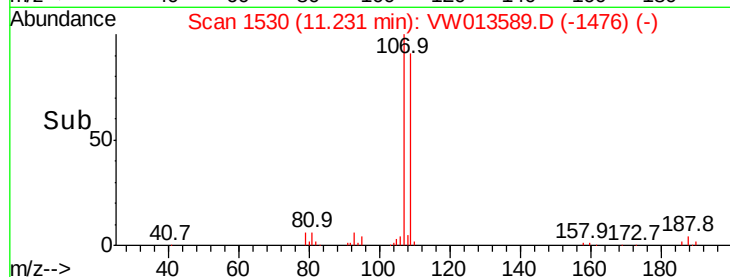
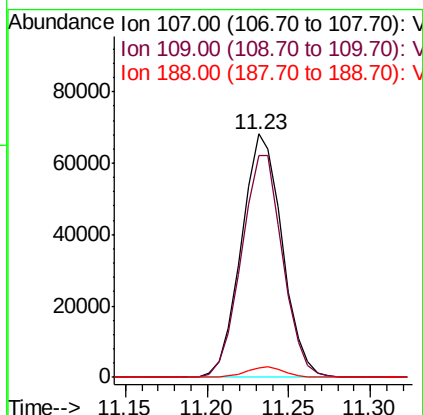
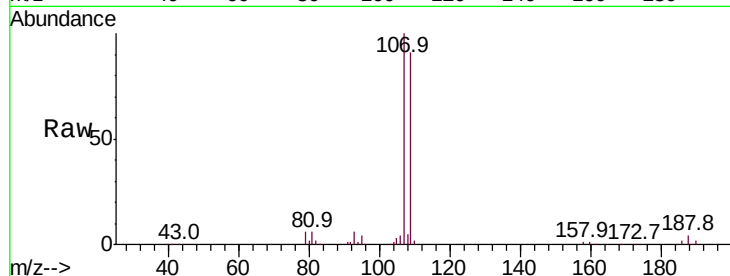




#51  
1,2-Dibromoethane  
Concen: 27.792 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

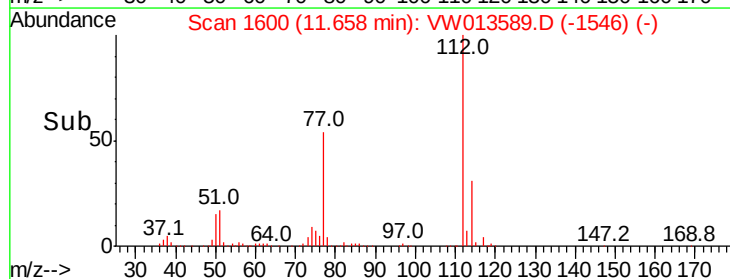
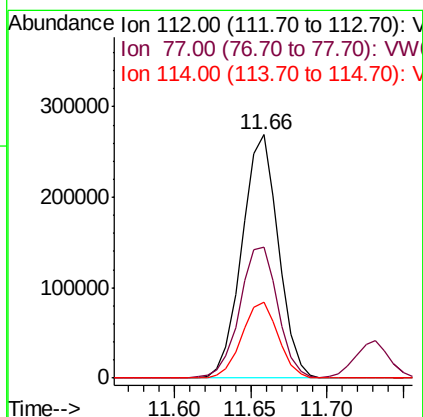
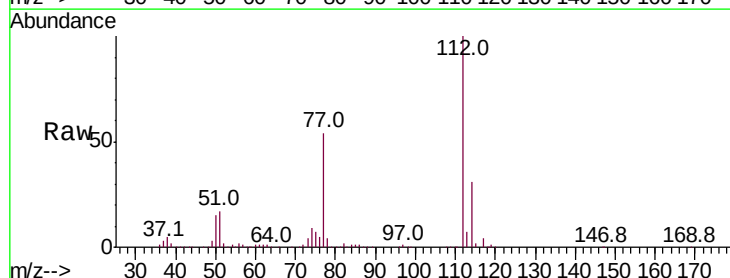
Instrument :  
MSVOA\_W  
ClientSampleId :

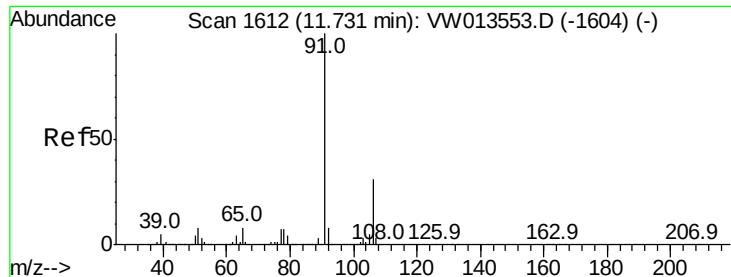
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 91.3  | 65.5  | 121.7 |
| 188     | 4.0   | 3.6   | 5.4   |



#52  
Chlorobenzene  
Concen: 27.192 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 53.6  | 44.5  | 66.7  |
| 114     | 31.1  | 22.7  | 42.3  |

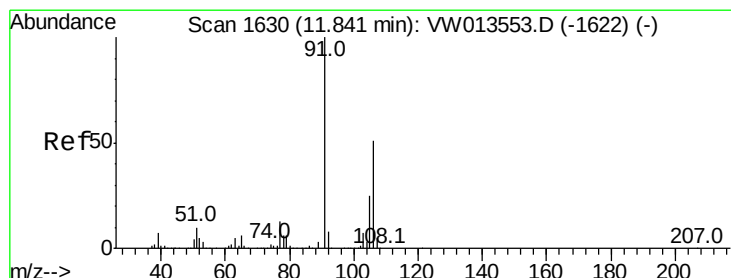
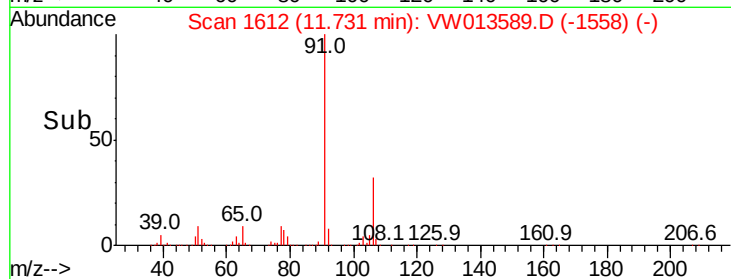
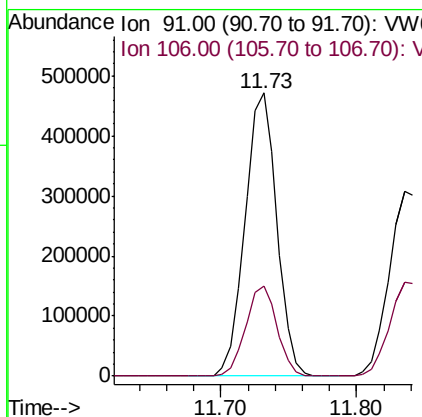
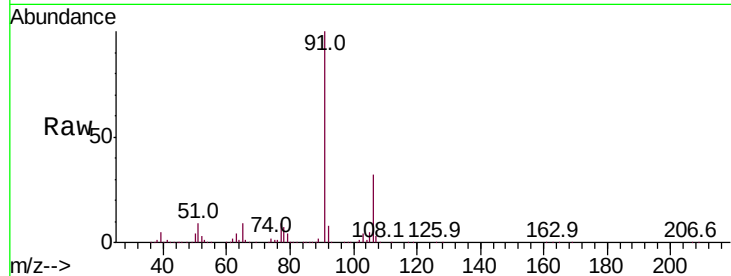




#53  
Ethylbenzene  
Concen: 27.009 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

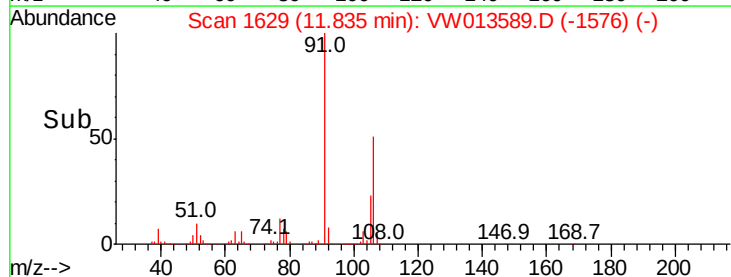
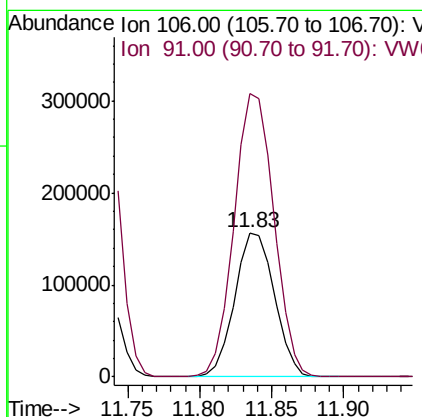
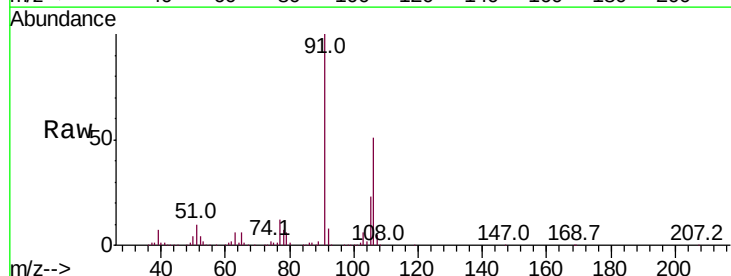
Instrument :  
MSVOA\_W  
ClientSampled :

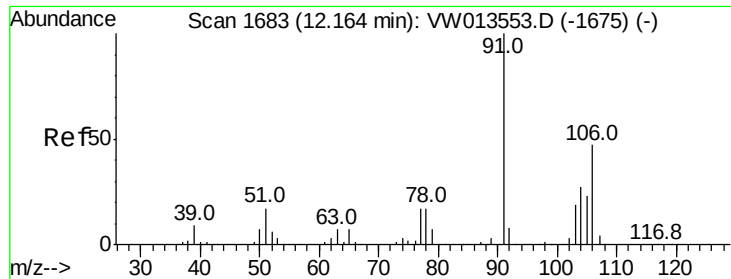
Tot Ion: 91 Resp: 770730  
Ion Ratio Lower Upper  
91 100  
106 31.7 21.5 39.9



#54  
m,p-Xylene  
Concen: 26.939 ug/L  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion:106 Resp: 299883  
Ion Ratio Lower Upper  
106 100  
91 196.5 139.4 258.8

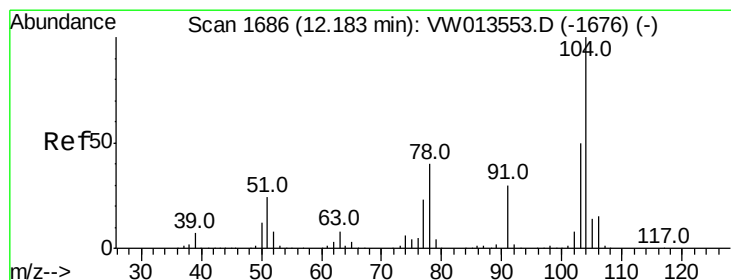
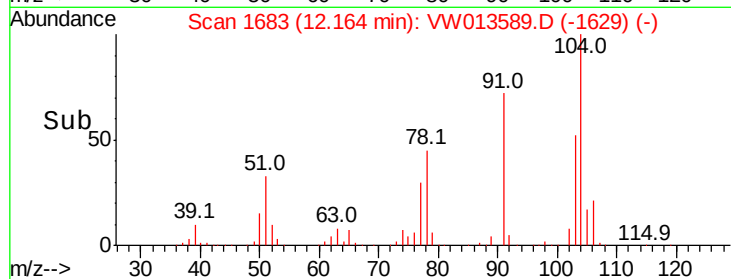
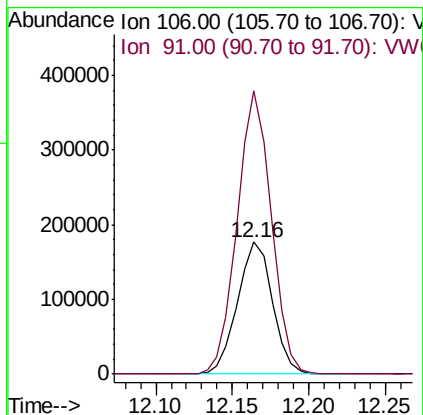
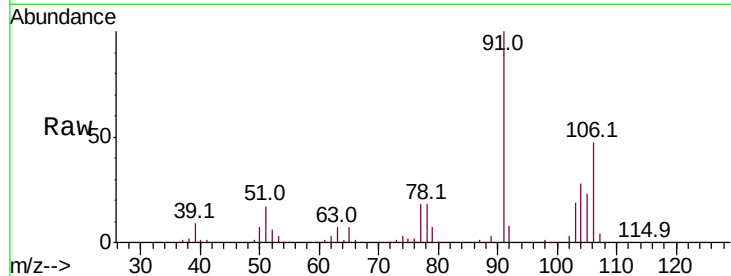




#55  
o-xylene  
Concen: 27.026 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

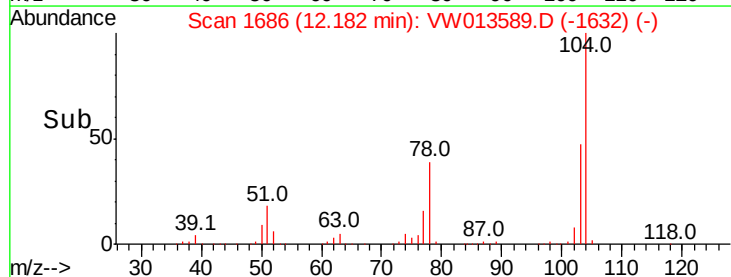
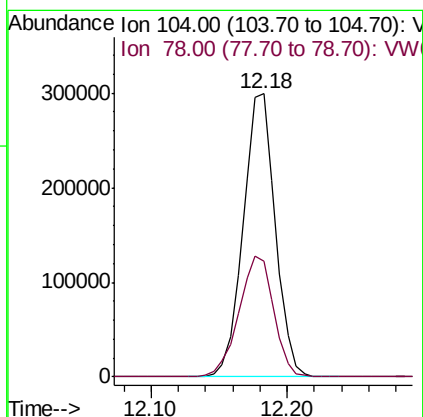
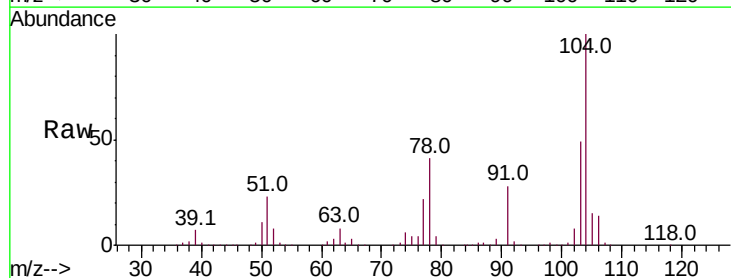
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:106 Resp: 280828  
Ion Ratio Lower Upper  
106 100  
91 214.2 148.4 275.6

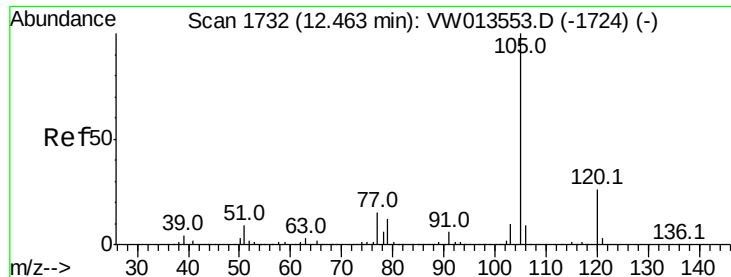


#56  
Styrene  
Concen: 27.857 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion:104 Resp: 492971  
Ion Ratio Lower Upper  
104 100  
78 41.1 28.4 52.8







#57

Isopropylbenzene

Concen: 27.261 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

Instrument :

MSVOA\_W

ClientSampleId :

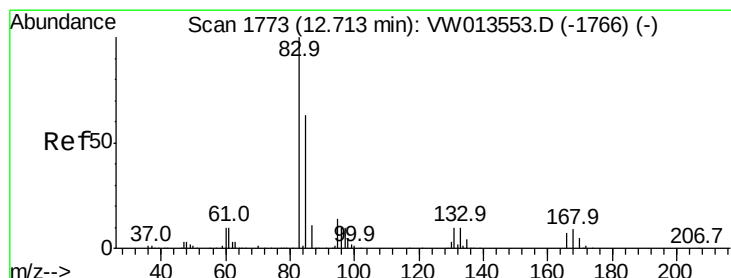
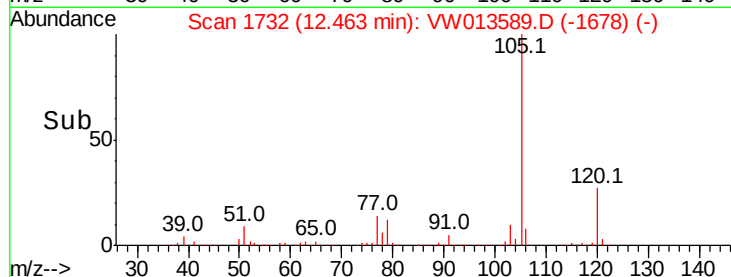
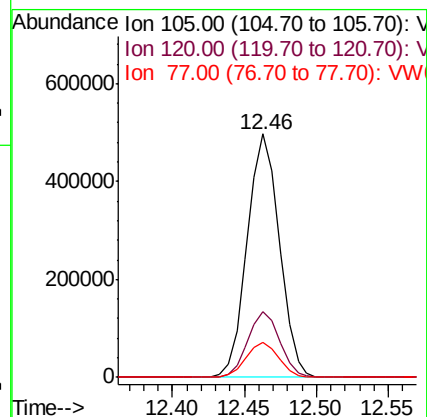
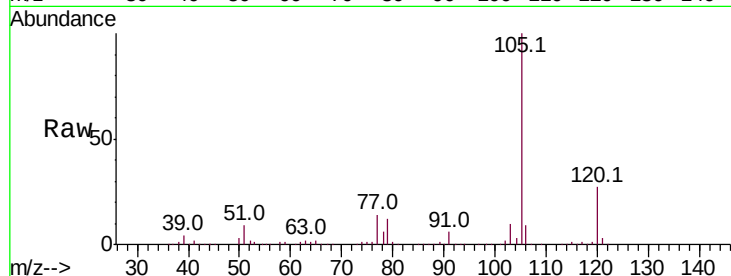
Tot Ion:105 Resp: 768422

Ion Ratio Lower Upper

105 100

120 26.8 21.7 32.5

77 14.5 11.8 17.6



#58

1,1,2,2-Tetrachloroethane

Concen: 27.941 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013589.D

Acq: 15 Oct 2019 17:59

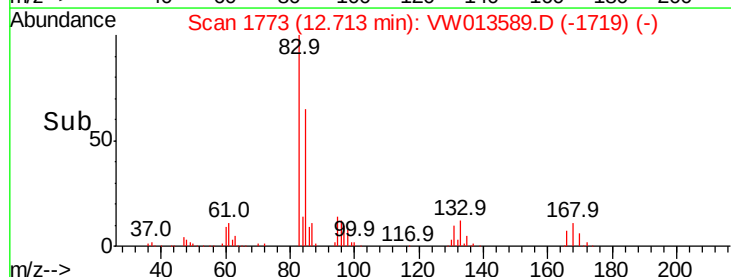
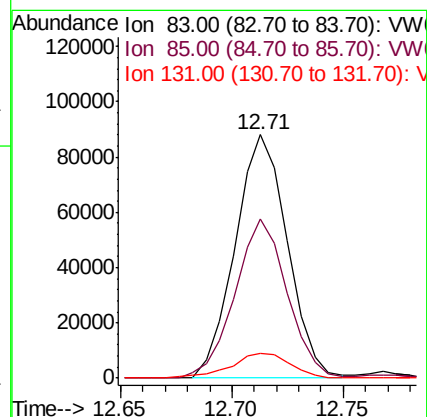
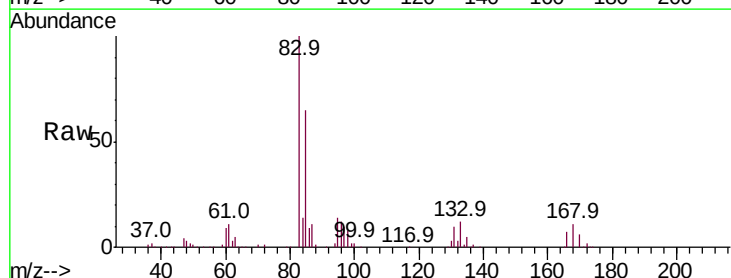
Tgt Ion: 83 Resp: 143599

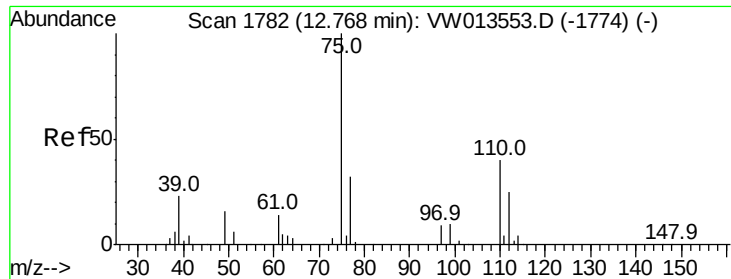
Ion Ratio Lower Upper

83 100

85 65.4 44.7 83.1

131 10.0 7.8 11.6

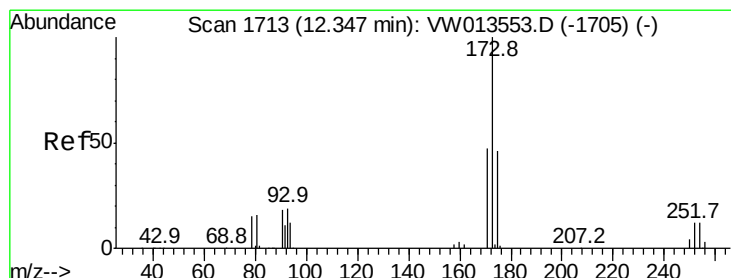
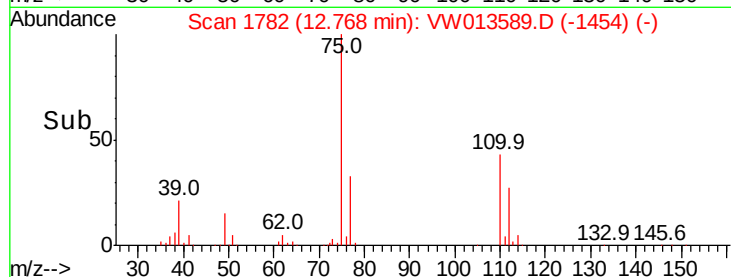
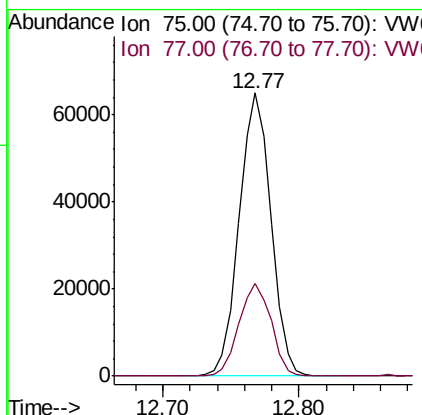
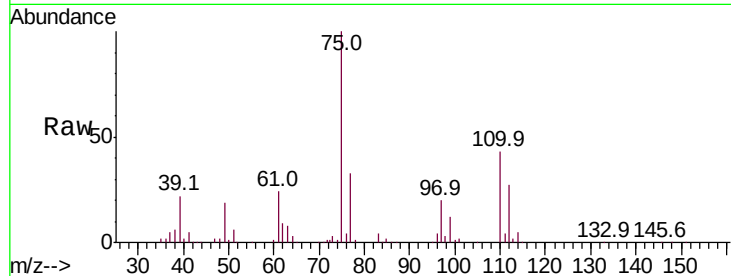




#59  
 1,2,3-Trichloropropane  
 Concen: 27.663 ug/L  
 RT: 12.77 min Scan# 1782  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

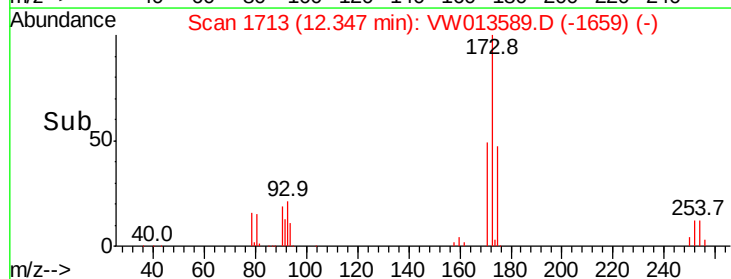
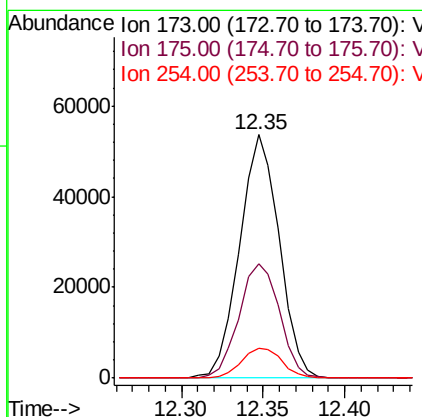
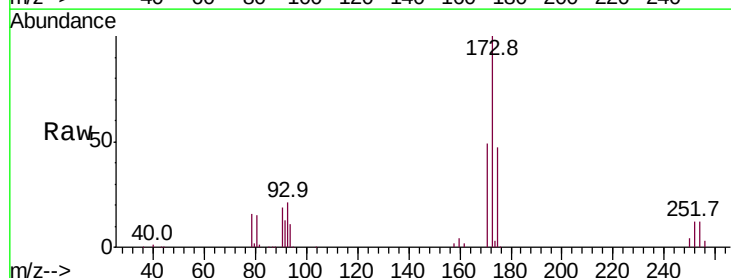
Instrument :  
 MSVOA\_W  
 ClientSampleId :

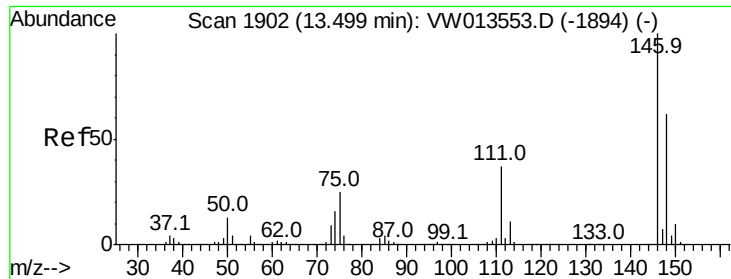
Tot Ion: 75 Resp: 106159  
 Ion Ratio Lower Upper  
 75 100  
 77 33.0 25.5 38.3



#62  
 Bromoform  
 Concen: 27.481 ug/L  
 RT: 12.35 min Scan# 1713  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

Tgt Ion:173 Resp: 90809  
 Ion Ratio Lower Upper  
 173 100  
 175 48.2 39.0 58.6  
 254 12.5 10.1 15.1

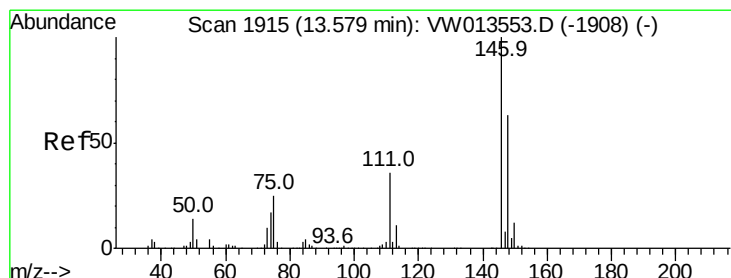
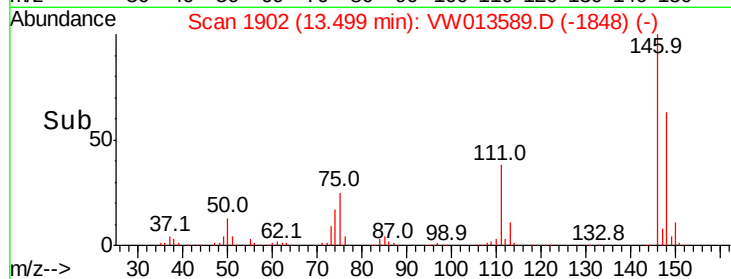
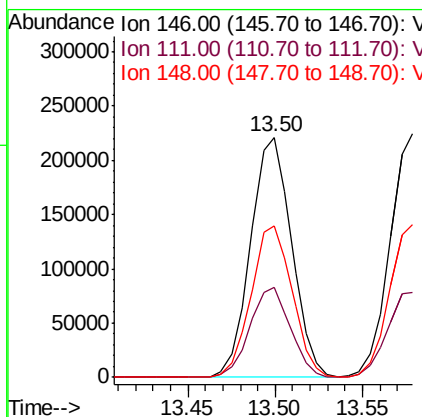
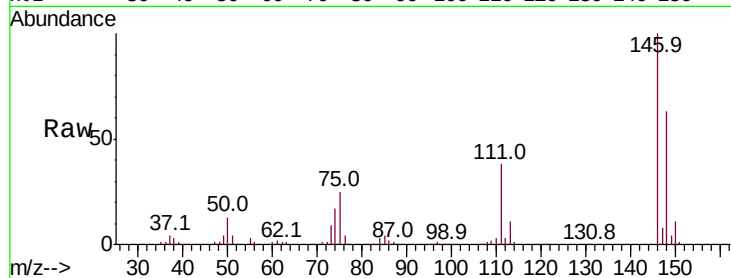




#63  
 1,3-Dichlorobenzene  
 Concen: 26.217 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

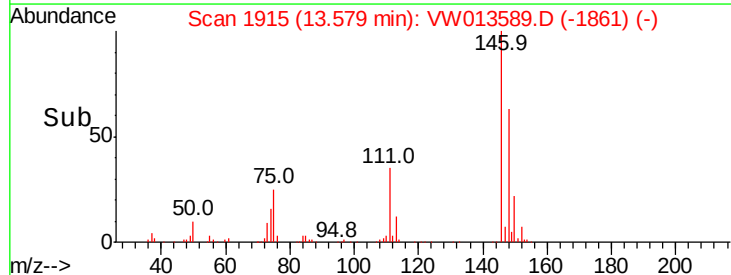
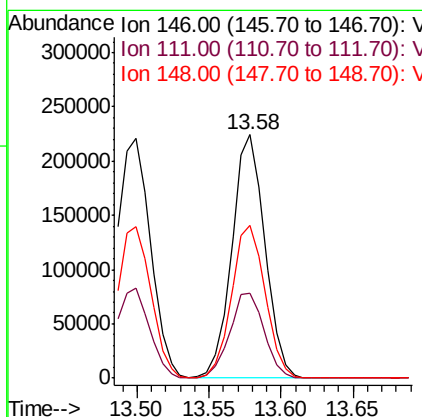
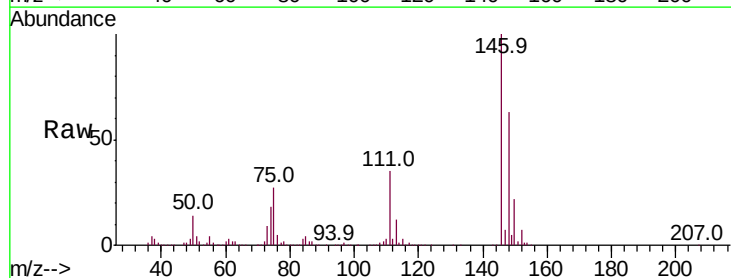
Instrument :  
 MSVOA\_W  
 ClientSampleId :

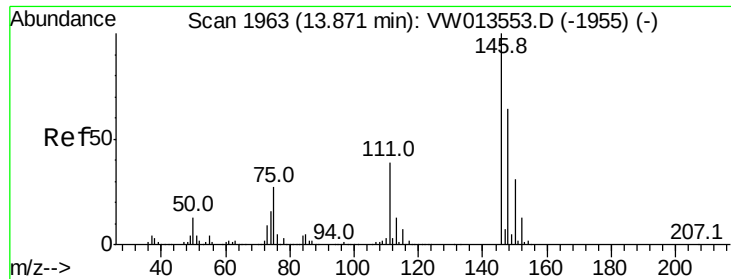
Tot Ion:146 Resp: 360929  
 Ion Ratio Lower Upper  
 146 100  
 111 37.7 25.3 46.9  
 148 63.0 42.8 79.4



#64  
 1,4-Dichlorobenzene  
 Concen: 26.093 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

Tgt Ion:146 Resp: 357570  
 Ion Ratio Lower Upper  
 146 100  
 111 34.9 25.8 47.8  
 148 62.7 43.7 81.1

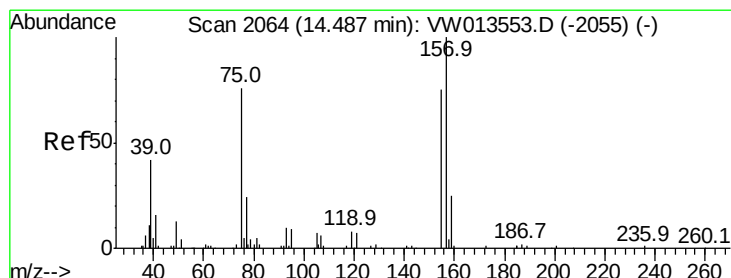
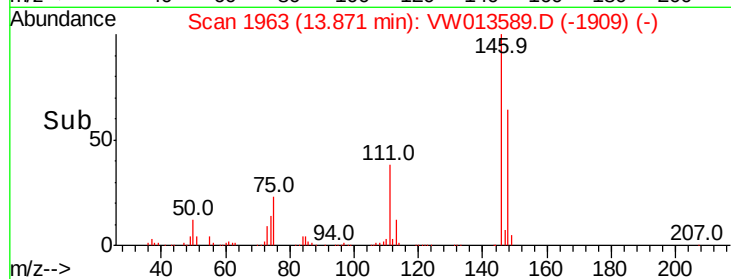
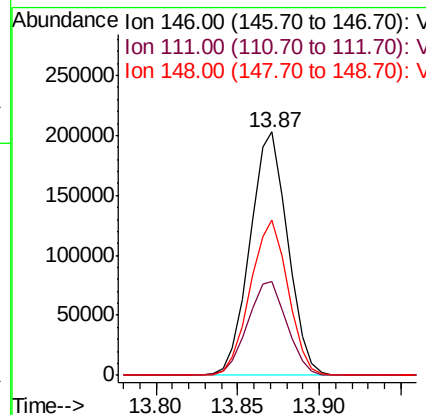
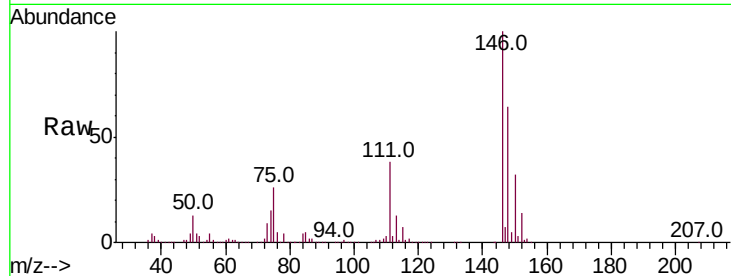




#65  
 1,2-Dichlorobenzene  
 Concen: 26.457 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

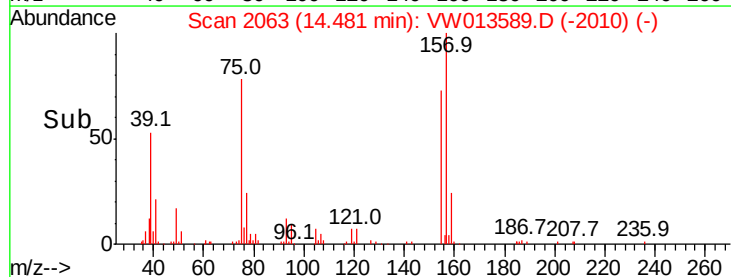
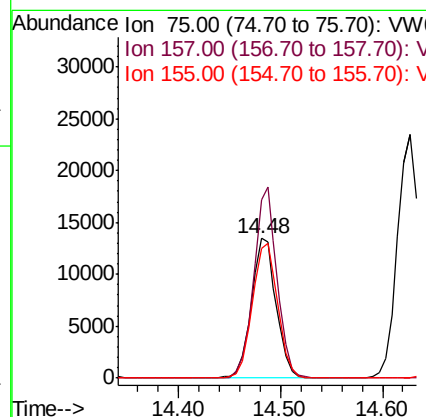
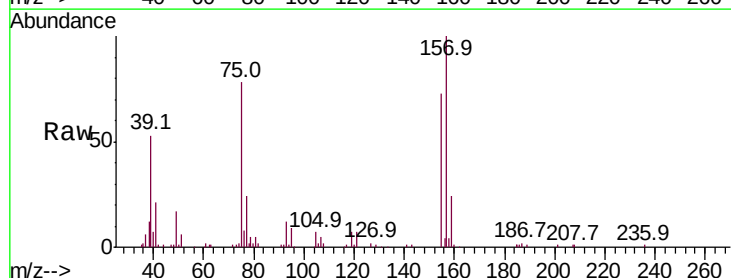
Instrument :  
 MSVOA\_W  
 ClientSampled :

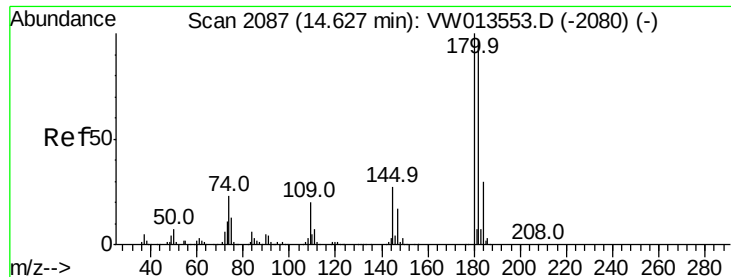
Tot Ion:146 Resp: 327488  
 Ion Ratio Lower Upper  
 146 100  
 111 38.4 31.0 46.4  
 148 63.7 50.3 75.5



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 26.559 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

Tgt Ion: 75 Resp: 22696  
 Ion Ratio Lower Upper  
 75 100  
 157 127.9 102.0 153.0  
 155 93.4 77.6 116.4

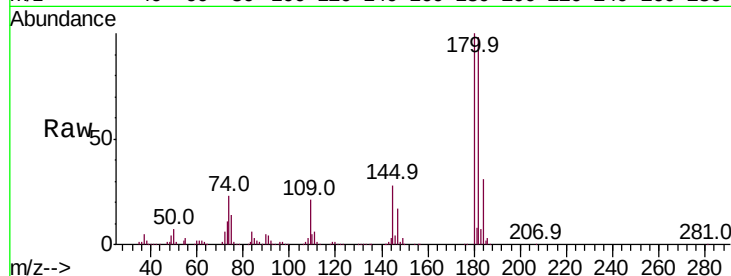




#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.833 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.9  | 77.0  | 115.4 |
| 184     | 31.2  | 24.7  | 37.1  |
| 145     | 28.0  | 22.2  | 33.2  |



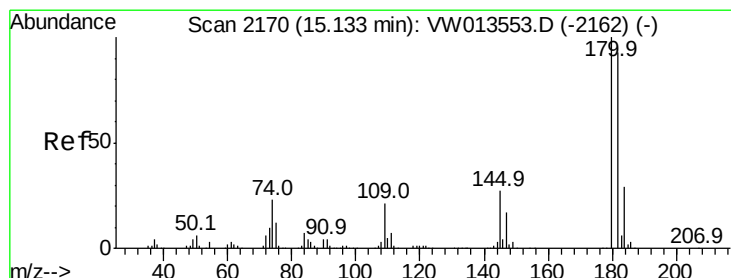
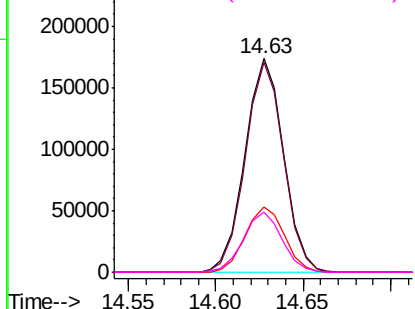
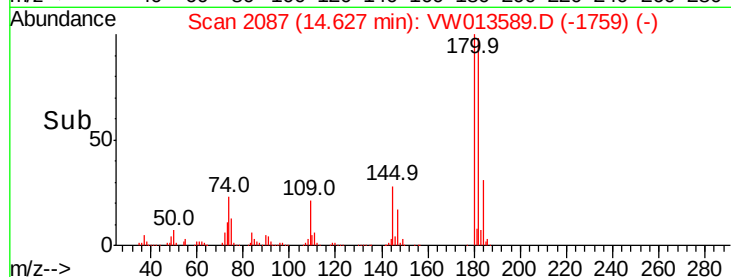
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

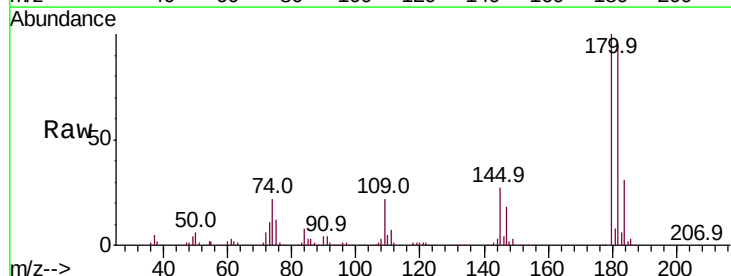
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.683 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW013589.D  
 Acq: 15 Oct 2019 17:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.4  | 78.2  | 117.2 |
| 145     | 28.0  | 22.8  | 34.2  |

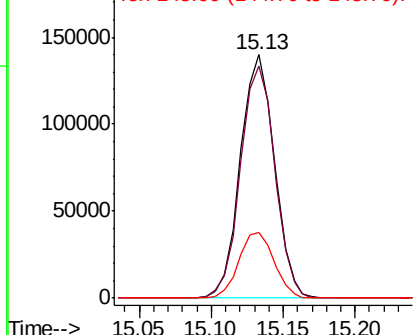
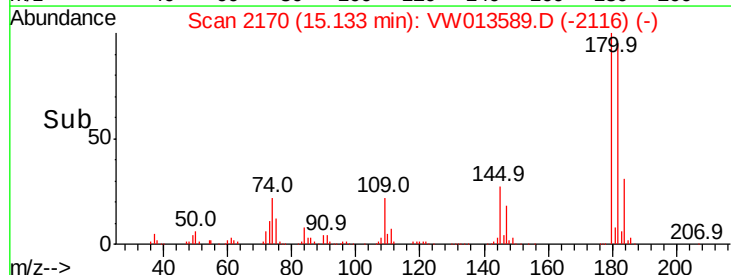


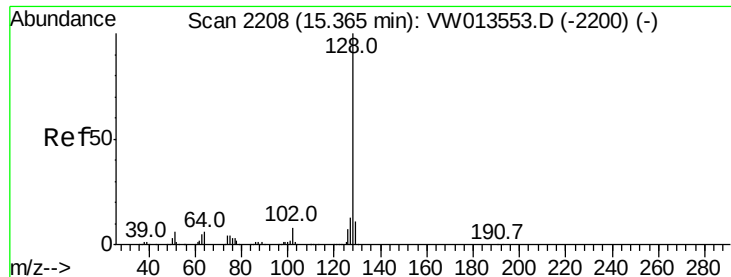
Abundance

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

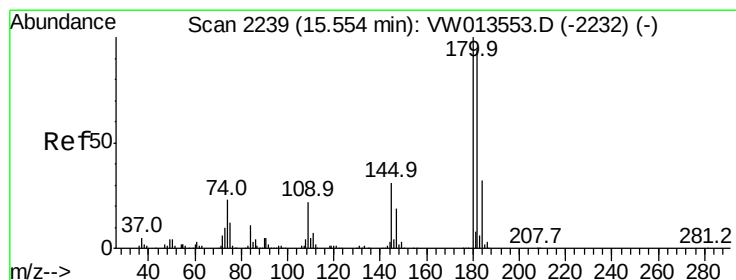
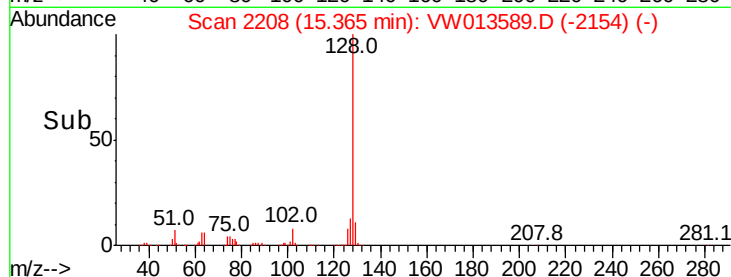
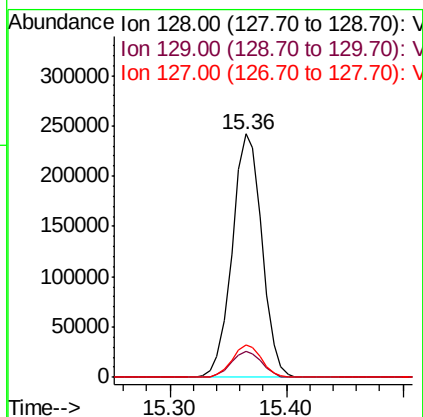
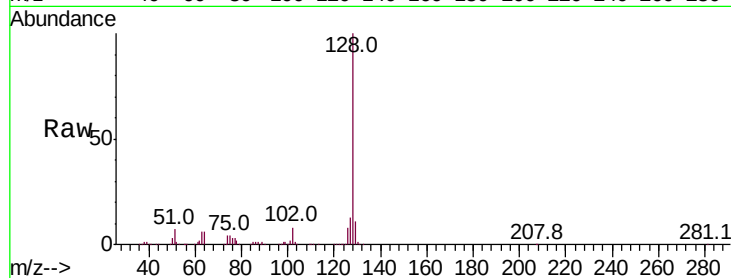




#69  
Naphthalene  
Concen: 27.406 ug/L  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:128 Resp: 429904  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.5 12.7  
127 13.2 10.4 15.6



#70  
1,2,3-Trichlorobenzene  
Concen: 27.195 ug/L  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VW013589.D  
Acq: 15 Oct 2019 17:59

Tgt Ion:180 Resp: 208560  
Ion Ratio Lower Upper  
180 100  
182 96.1 76.0 114.0  
145 29.3 23.1 34.7

