

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101520\  
 Data File : VW016898.D  
 Acq On : 14 Oct 2020 10:10  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

Quant Time: Oct 15 08:31:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 14 08:34:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 563385   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 503081   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 257842   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 147481   | 26.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.16% |
| 7) Chloroethane-d5             | 2.90   | 69    | 126300   | 27.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.36% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 319844   | 27.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 108.40% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 67930    | 53.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.92% |
| 24) Chloroform-d               | 7.65   | 84    | 336649   | 28.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 113.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 154223   | 26.86    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.44% |
| 29) Benzene-d6                 | 8.27   | 84    | 637182   | 27.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 111.56% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 173854   | 28.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 113.24% |
| 37) Toluene-d8                 | 10.33  | 98    | 596998   | 27.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 110.76% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 76787    | 28.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 113.40% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 56659    | 59.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 119.34% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 143553   | 28.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 115.76% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 233676   | 28.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 114.28% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.02 | 85  | 179459 | 26.650 | ug/L 97  |
| 3) Chloromethane               | 2.22 | 50  | 142446 | 23.997 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 227008 | 29.458 | ug/L 99  |
| 6) Bromomethane                | 2.79 | 94  | 152101 | 26.848 | ug/L 100 |
| 8) Chloroethane                | 2.93 | 64  | 133372 | 28.042 | ug/L 97  |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 164384 | 27.609 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 212496 | 28.015 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 202850 | 27.848 | ug/L 90  |
| 13) Acetone                    | 4.13 | 43  | 45188  | 47.434 | ug/L 99  |
| 14) Carbon disulfide           | 4.39 | 76  | 581339 | 27.833 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 60001  | 26.361 | ug/L 99  |
| 16) Methylene chloride         | 4.92 | 84  | 198529 | 25.534 | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 220792 | 27.087 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 208231 | 27.364 | ug/L 97  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 324539 | 27.695 | ug/L 100 |
| 21) 2-Butanone                 | 7.18 | 43  | 75816  | 47.407 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 213669 | 27.518 | ug/L 94  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101520\  
 Data File : VW016898.D  
 Acq On : 14 Oct 2020 10:10  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

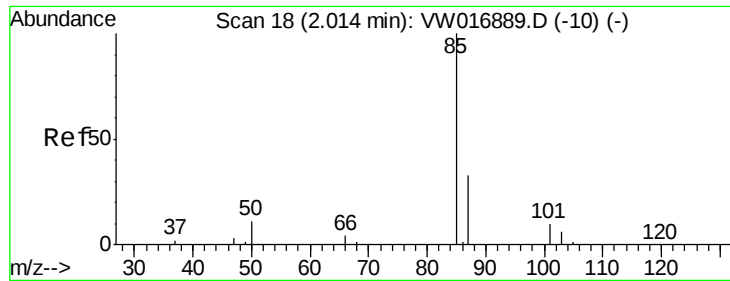
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

Quant Time: Oct 15 08:31:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 14 08:34:08 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 98018    | 26.882 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 351287   | 27.759 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 203582   | 26.892 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 293476   | 28.130 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 308251   | 28.812 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 300155   | 28.750 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 767999   | 28.427 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 213761   | 27.972 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 363545   | 28.294 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 173433   | 28.390 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 245169   | 28.567 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 281082   | 28.859 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 168197   | 54.689 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 849700   | 28.351 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 236715   | 28.881 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 136572   | 27.501 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 195335   | 27.571 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.97 | 43   | 114037   | 56.176 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 175430   | 28.416 | ug/L  | 100      |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 133769   | 27.411 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 552095   | 27.449 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 961912   | 28.611 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 374558   | 28.645 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 353827   | 28.322 | ug/L  | 94       |
| 56) Styrene                     | 12.18 | 104  | 602861   | 29.243 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.47 | 105  | 976398   | 28.541 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 150765   | 27.470 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 108897   | 27.390 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 100728   | 27.771 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 458502   | 27.941 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 443997   | 27.055 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 401600   | 27.334 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 23381    | 26.235 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 344769   | 28.265 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 277758   | 27.724 | ug/L  | 100      |
| 69) Naphthalene                 | 15.37 | 128  | 469612   | 28.306 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 237877   | 27.631 | ug/L  | 96       |

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





#2

Dichlorodifluoromethane

Concen: 26.650 ug/L

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

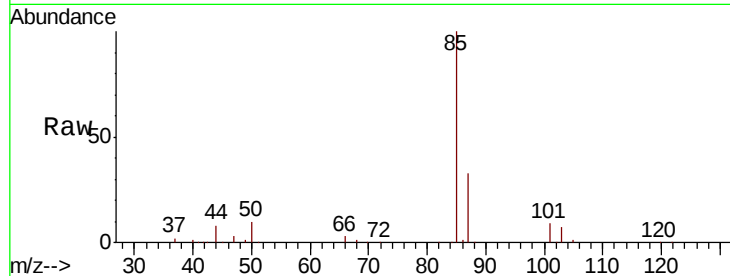
BFB14

Tot Ion: 85 Resp: 179459

Ion Ratio Lower Upper

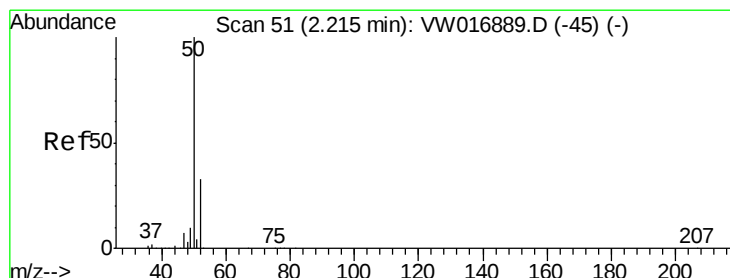
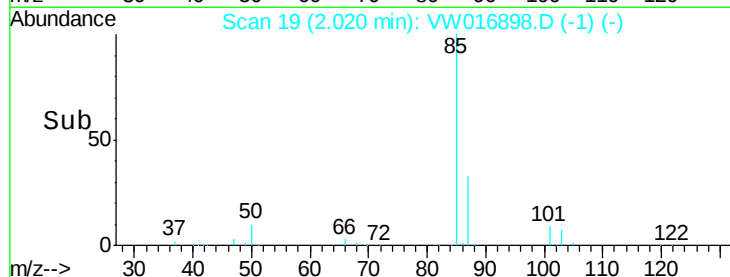
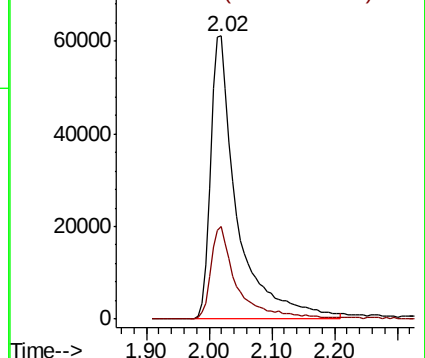
85 100

87 30.5 20.4 37.8



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.997 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW016898.D

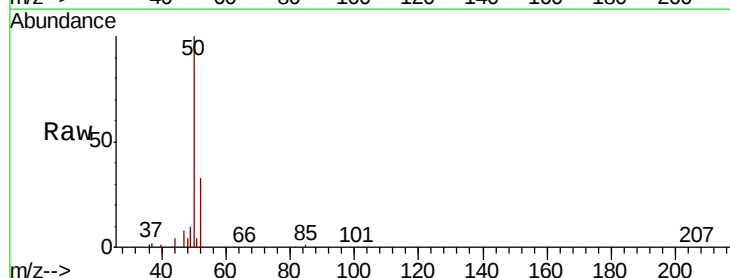
Acq: 14 Oct 2020 10:10

Tgt Ion: 50 Resp: 142446

Ion Ratio Lower Upper

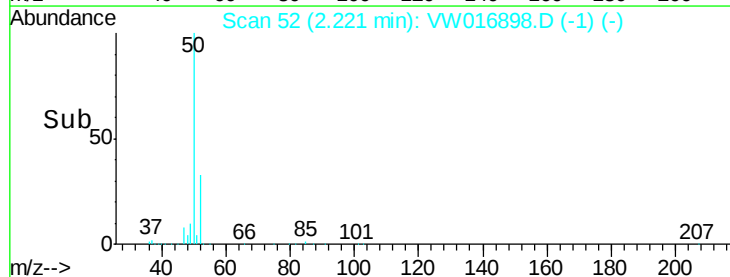
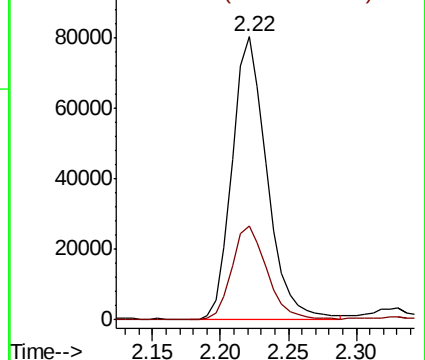
50 100

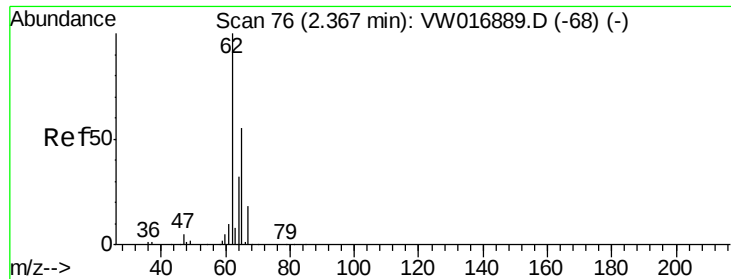
52 33.1 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 29.458 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

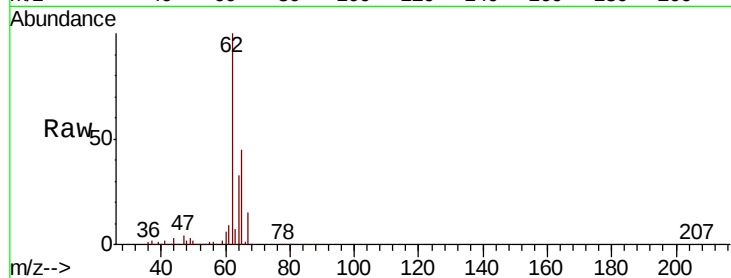
BFB14

Tot Ion: 62 Resp: 227008

Ion Ratio Lower Upper

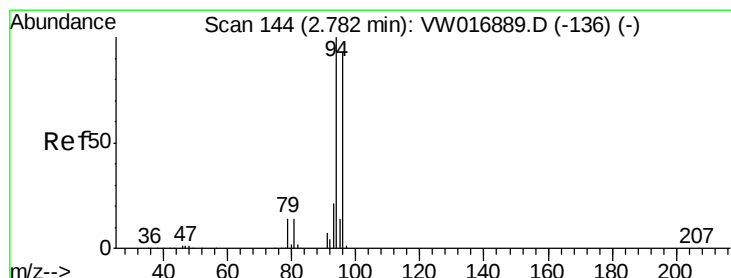
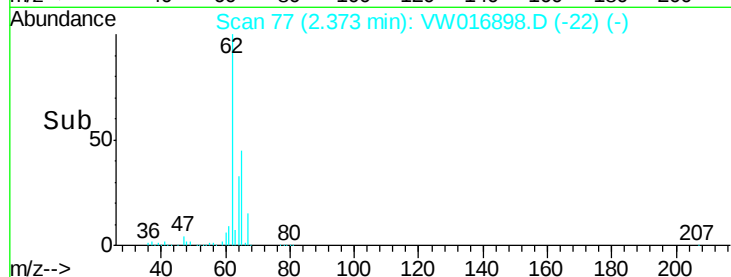
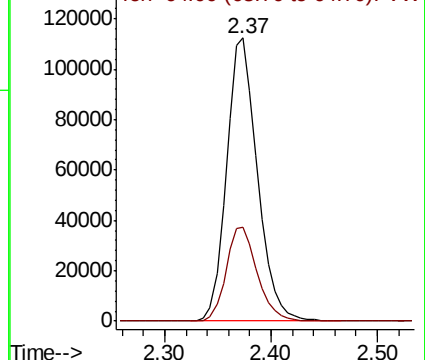
62 100

64 33.2 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 26.848 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW016898.D

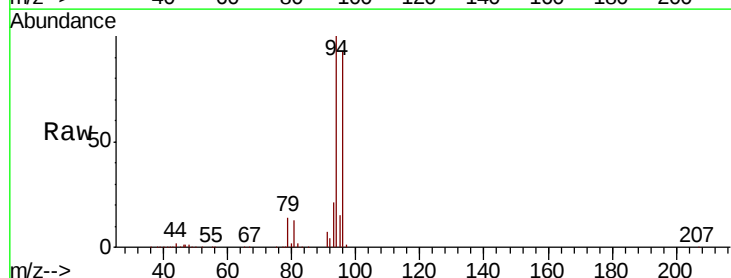
Acq: 14 Oct 2020 10:10

Tgt Ion: 94 Resp: 152101

Ion Ratio Lower Upper

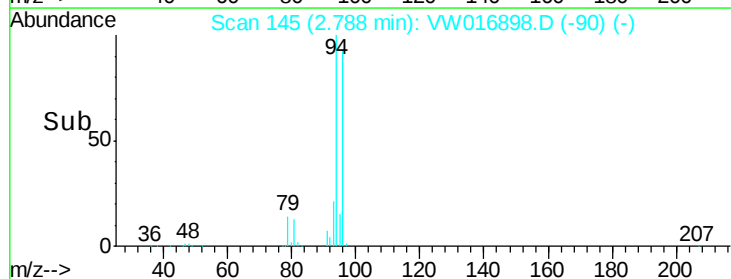
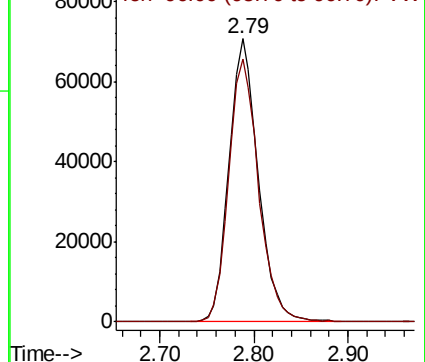
94 100

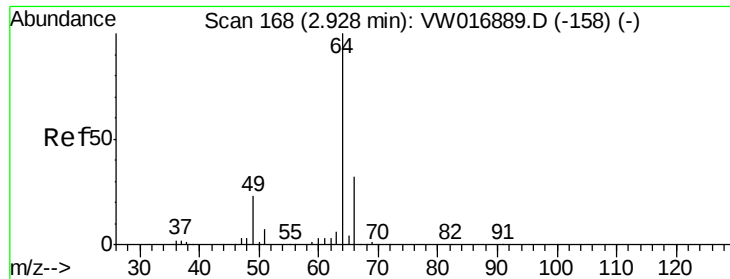
96 95.2 9.5 180.7



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

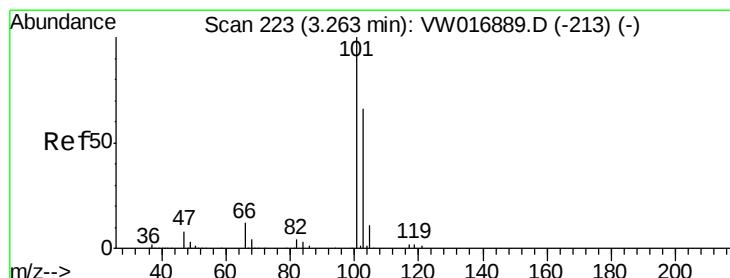
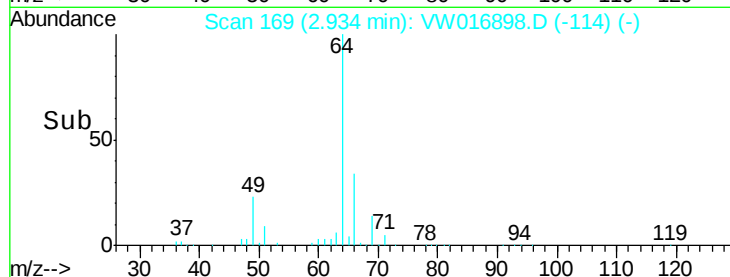
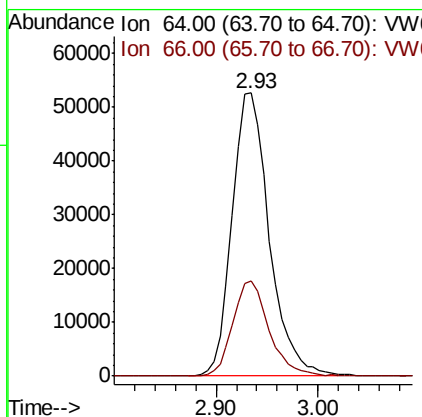
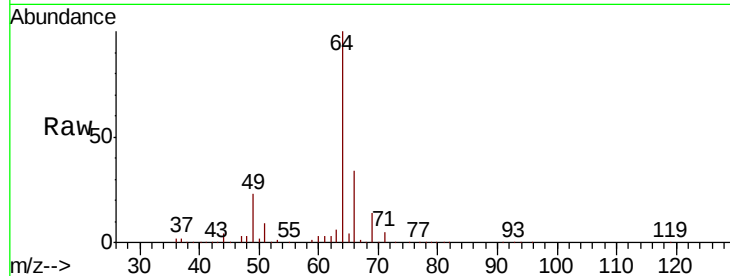




#8  
Chloroethane  
Concen: 28.042 ug/L  
RT: 2.93 min Scan# 169  
Delta R.T. 0.01 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

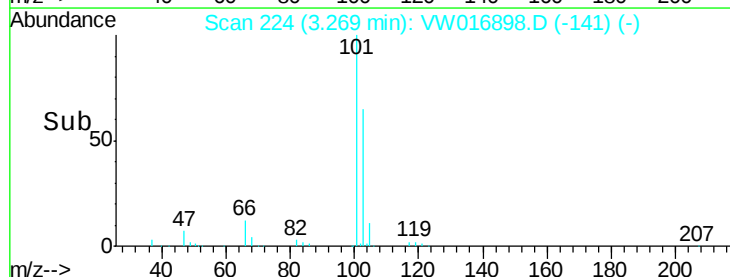
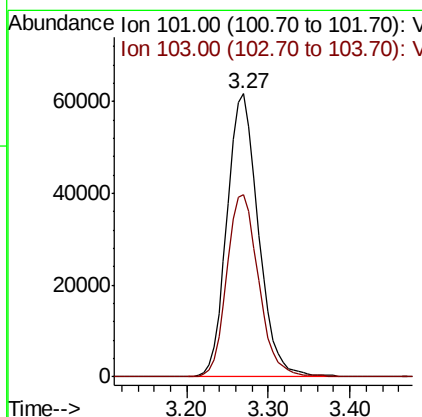
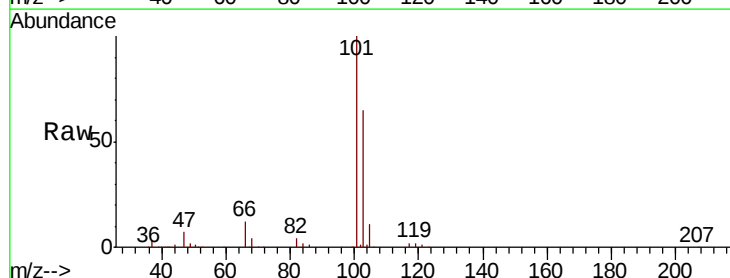
Instrument :  
MSVOA\_W  
ClientSampled :  
BFB14

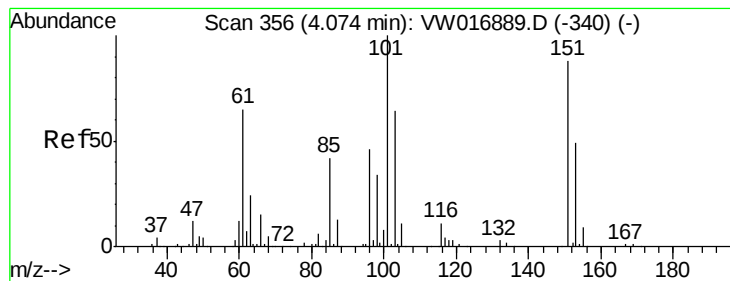
Tot Ion: 64 Resp: 133372  
Ion Ratio Lower Upper  
64 100  
66 33.8 22.5 41.7



#9  
Trichlorofluoromethane  
Concen: 27.609 ug/L  
RT: 3.27 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion: 101 Resp: 164384  
Ion Ratio Lower Upper  
101 100  
103 65.2 45.2 84.0





#11

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

Concen: 28.015 ug/L

RT: 4.07 min Scan# 356

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

BFB14

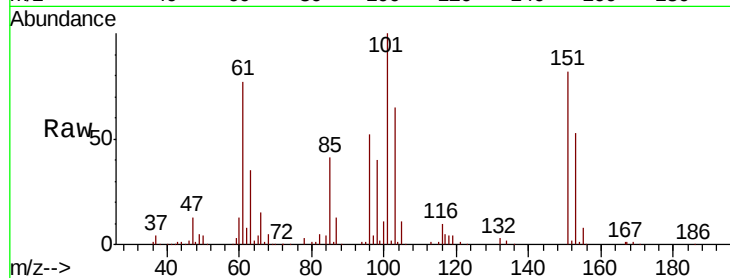
Tot Ion: 101 Resp: 212496

Ion Ratio Lower Upper

101 100

85 40.3 31.7 47.5

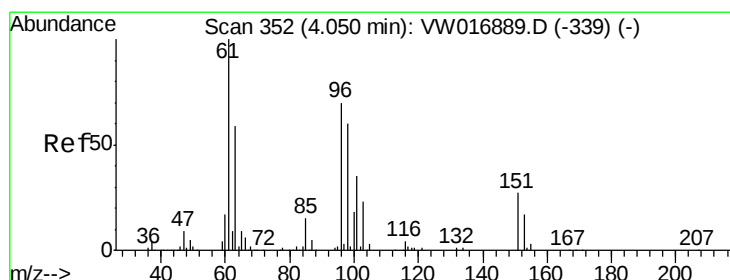
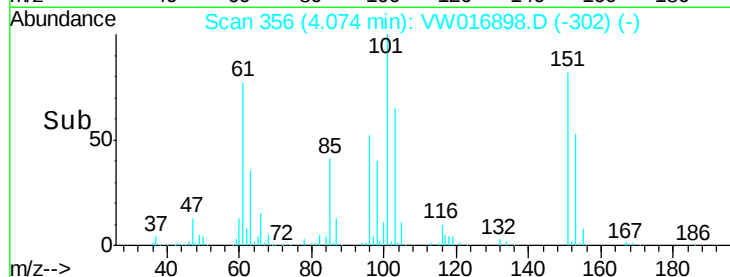
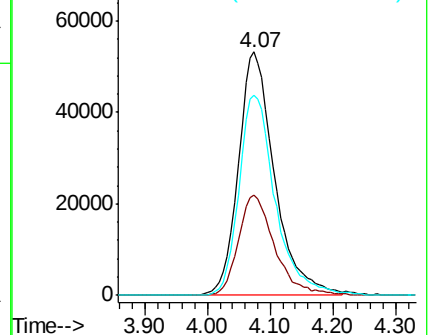
151 82.7 66.6 99.8



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: 27.848 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.01 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

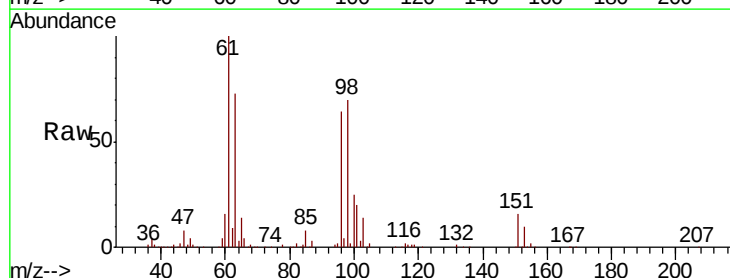
Tgt Ion: 96 Resp: 202850

Ion Ratio Lower Upper

96 100

61 157.1 105.1 195.1

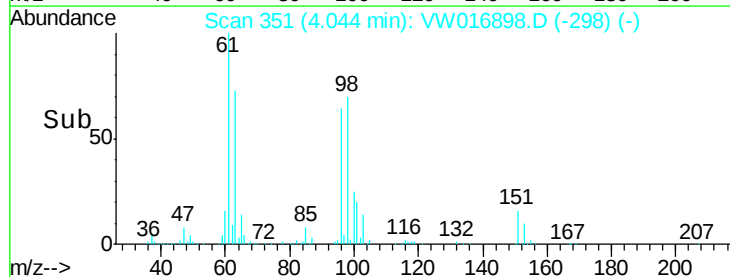
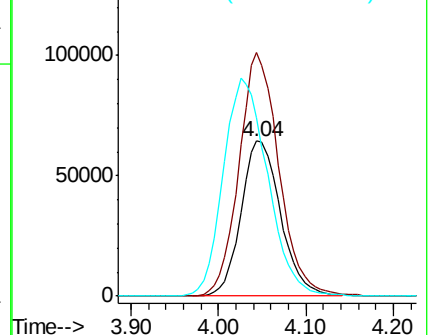
63 115.4 69.9 129.7

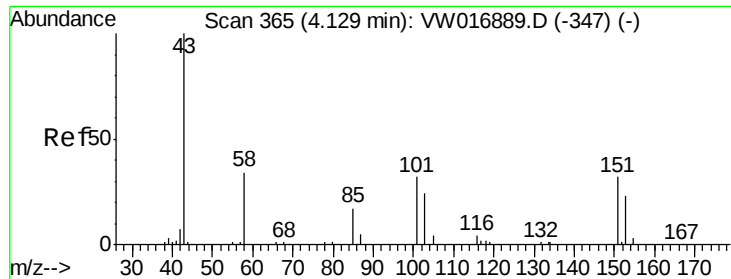


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

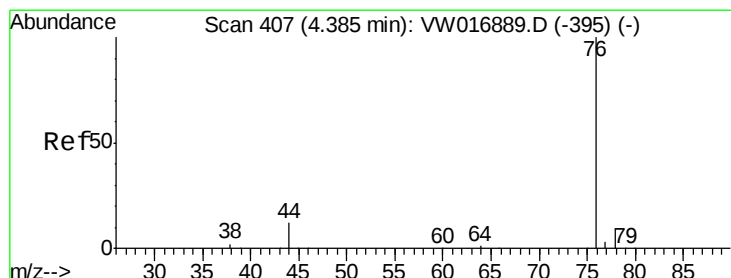
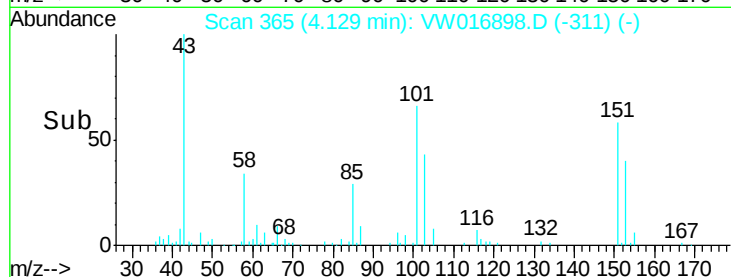
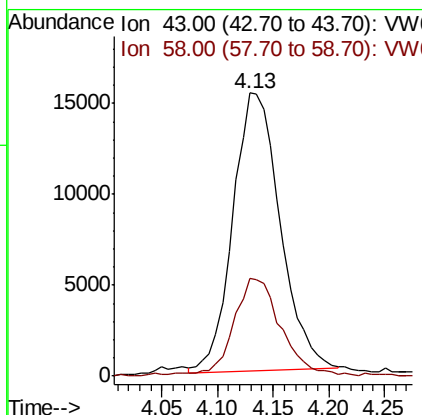
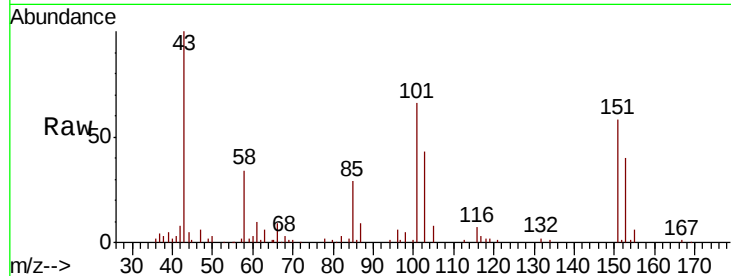




#13  
Acetone  
Concen: 47.434 ug/L  
RT: 4.13 min Scan# 365  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

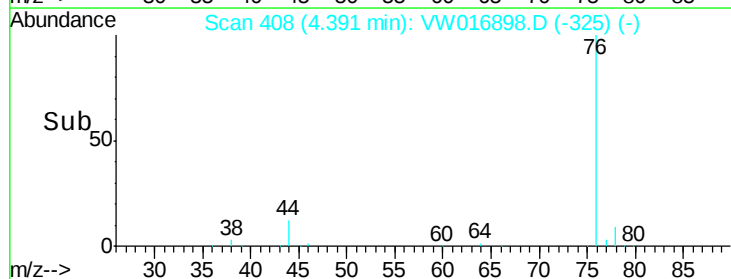
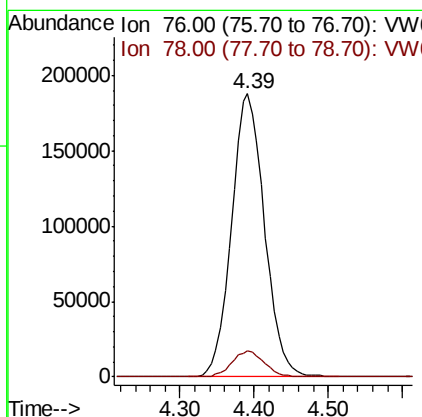
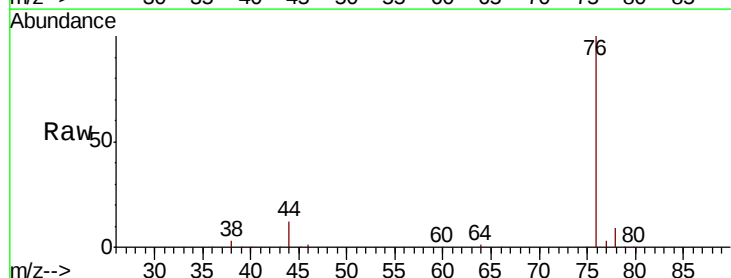
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

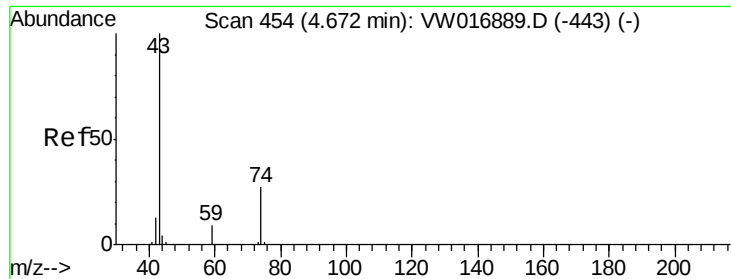
Tot Ion: 43 Resp: 45188  
Ion Ratio Lower Upper  
43 100  
58 34.6 0.0 67.6



#14  
Carbon disulfide  
Concen: 27.833 ug/L  
RT: 4.39 min Scan# 408  
Delta R.T. 0.01 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion: 76 Resp: 581339  
Ion Ratio Lower Upper  
76 100  
78 9.4 7.4 11.0

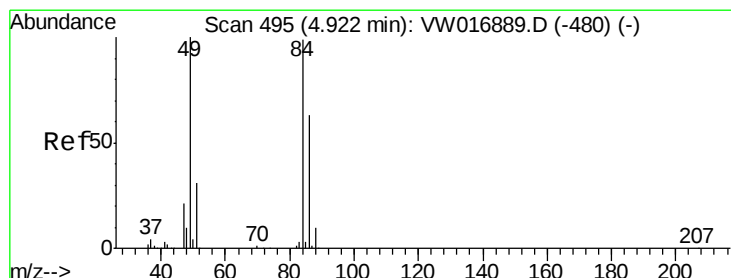
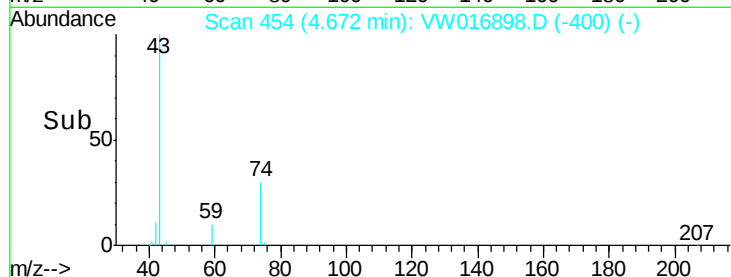
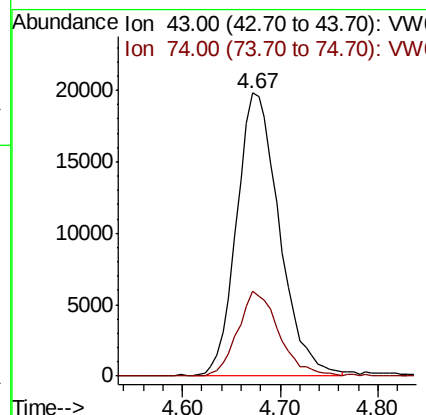
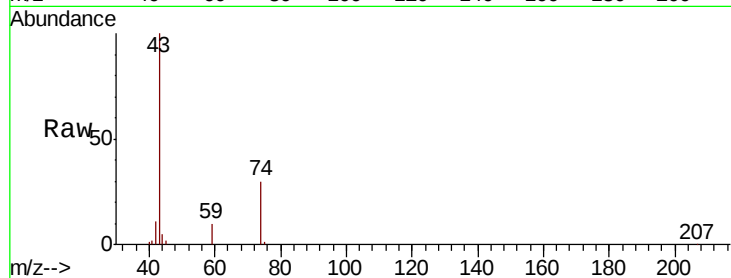




#15  
Methyl Acetate  
Concen: 26.361 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

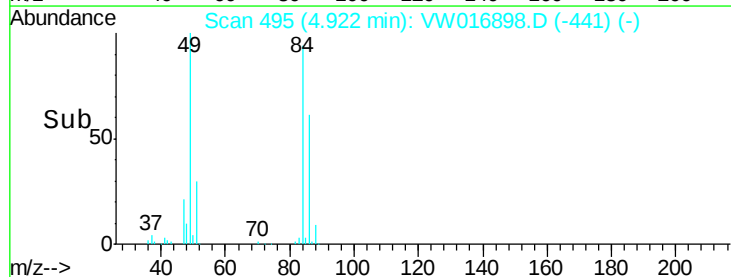
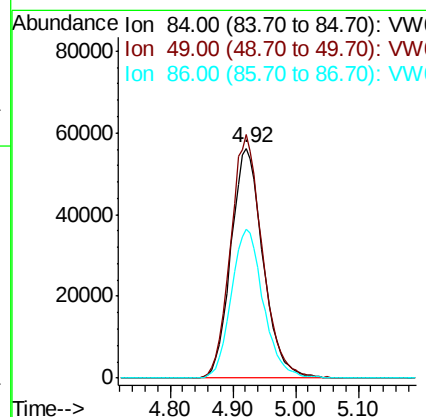
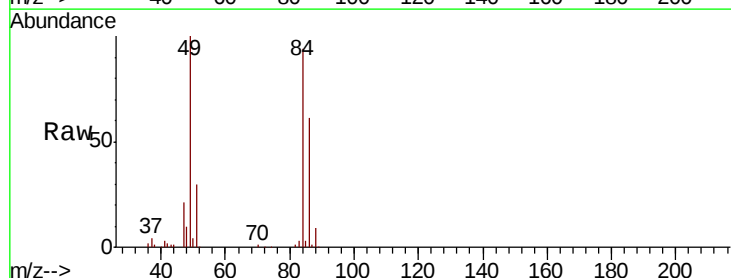
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

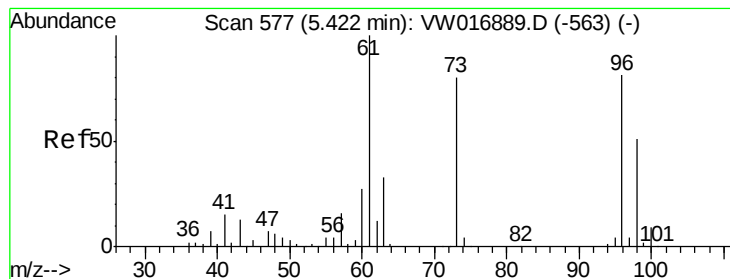
Tot Ion: 43 Resp: 60001  
Ion Ratio Lower Upper  
43 100  
74 28.7 22.7 34.1



#16  
Methylene chloride  
Concen: 25.534 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion: 84 Resp: 198529  
Ion Ratio Lower Upper  
84 100  
49 106.0 73.1 135.8  
86 64.6 46.0 85.4



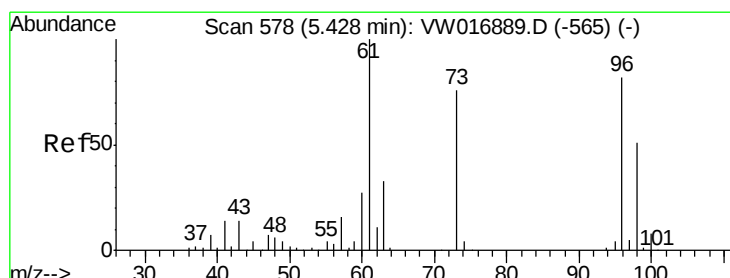
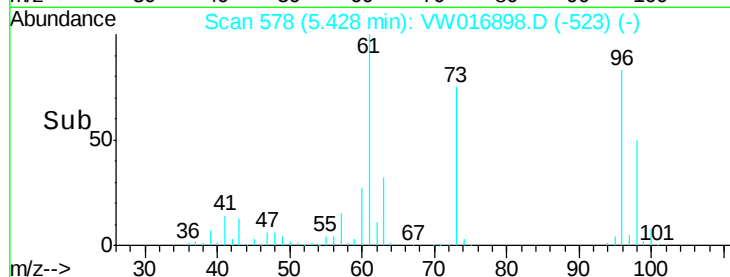
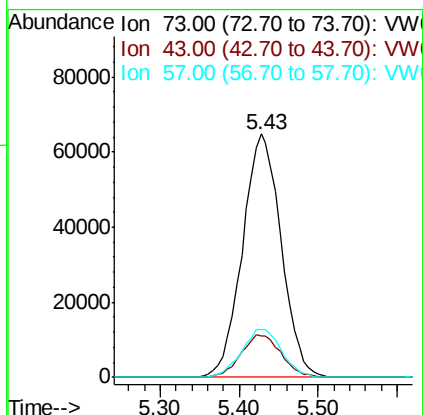
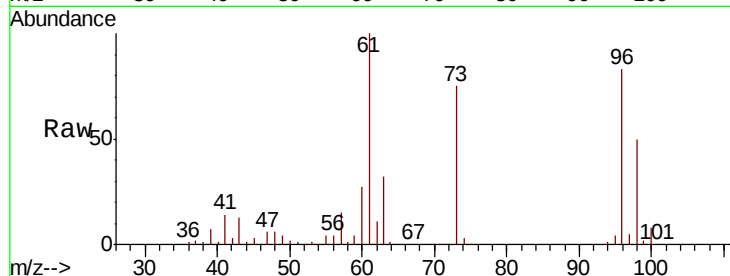


#17

Methvl tert-butvl Ether  
 Concen: 27.087 ug/L  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.01 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

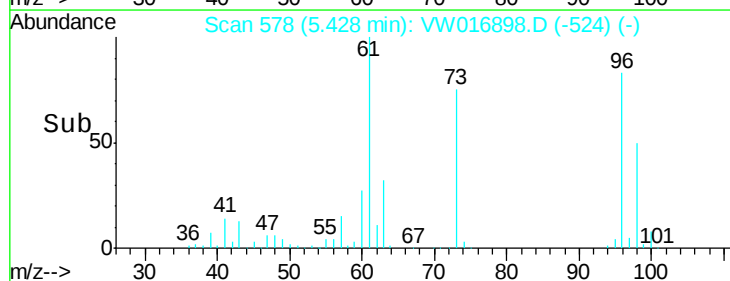
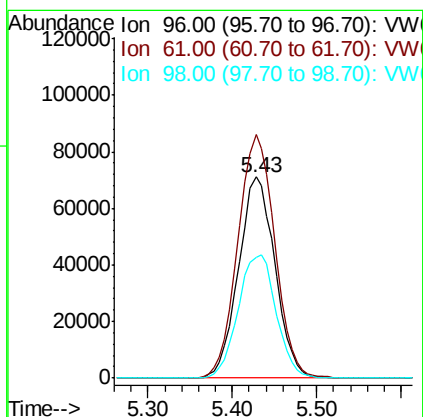
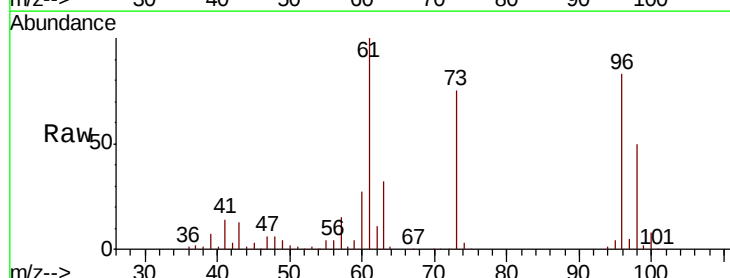
Tot Ion: 73 Resp: 220792  
 Ion Ratio Lower Upper  
 73 100  
 43 18.3 15.0 22.4  
 57 20.4 16.4 24.6

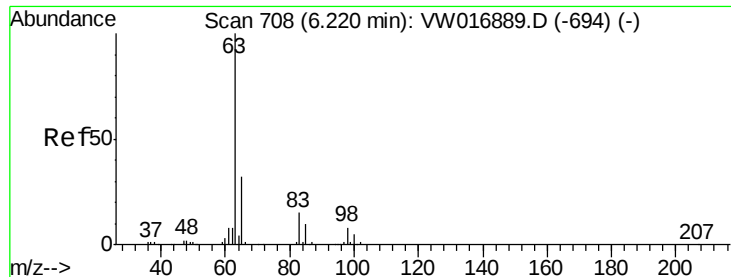


#18

trans-1,2-Dichloroethene  
 Concen: 27.364 ug/L  
 RT: 5.43 min Scan# 578  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Tgt Ion: 96 Resp: 208231  
 Ion Ratio Lower Upper  
 96 100  
 61 121.1 82.5 153.3  
 98 60.1 43.3 80.5

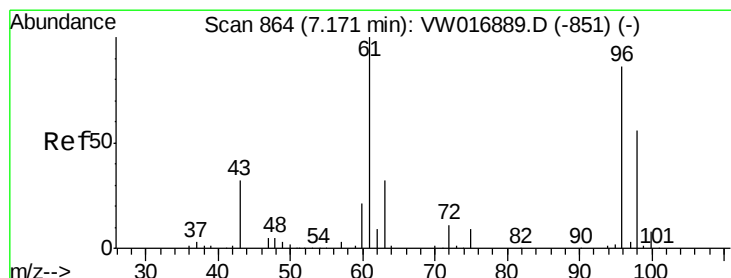
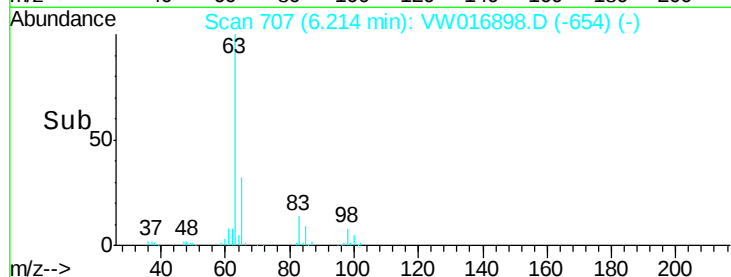
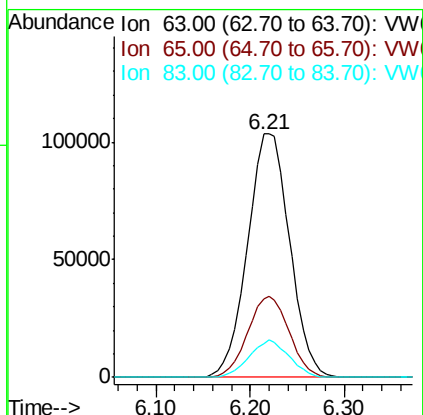
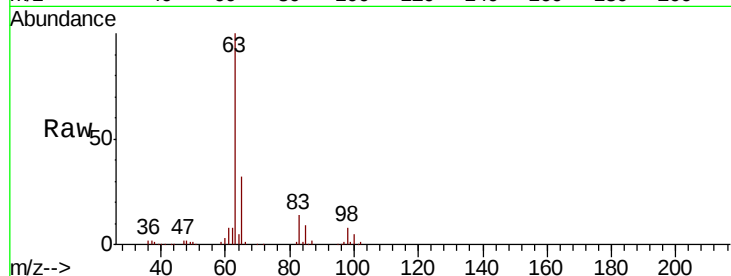




#19  
 1,1-Dichloroethane  
 Concen: 27.695 ug/L  
 RT: 6.21 min Scan# 707  
 Delta R.T. -0.01 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

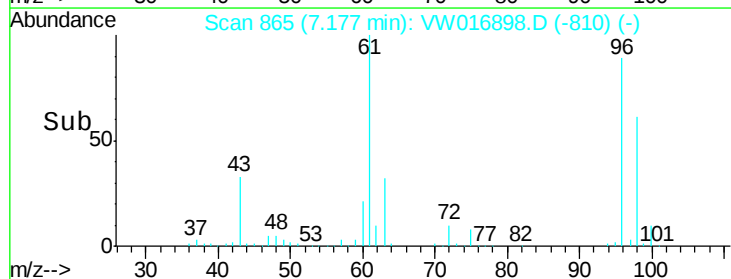
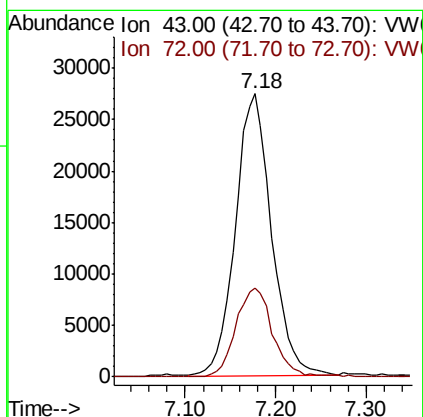
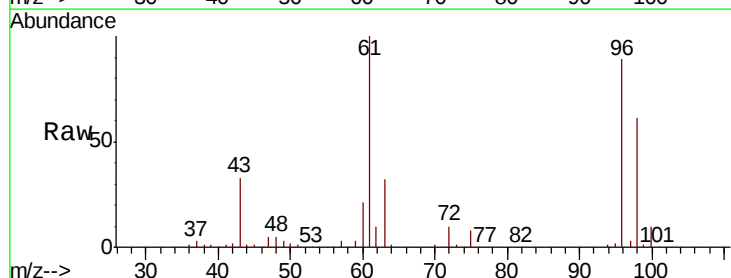
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

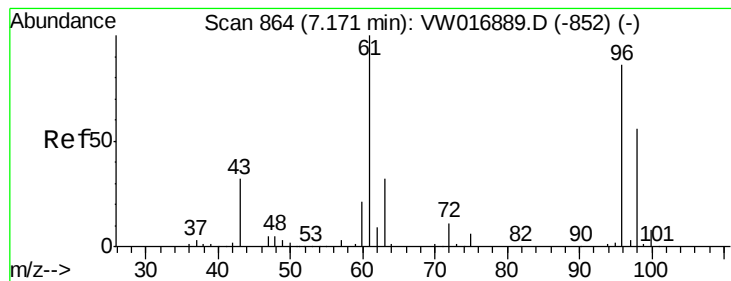
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.4  | 22.7  | 42.1  |
| 83      | 14.0  | 9.9   | 18.5  |



#21  
 2-Butanone  
 Concen: 47.407 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. 0.01 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 31.7  | 16.2  | 48.5  |



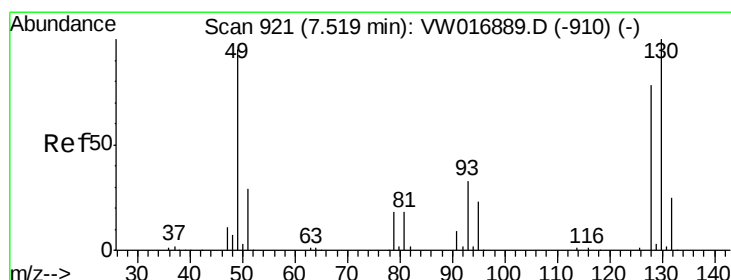
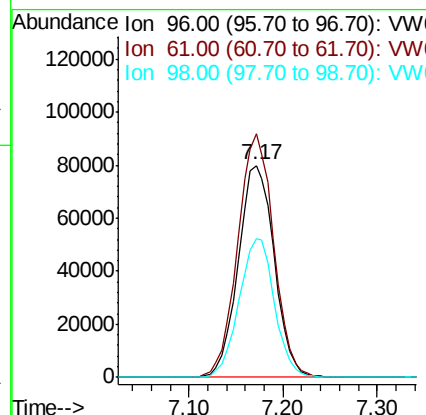
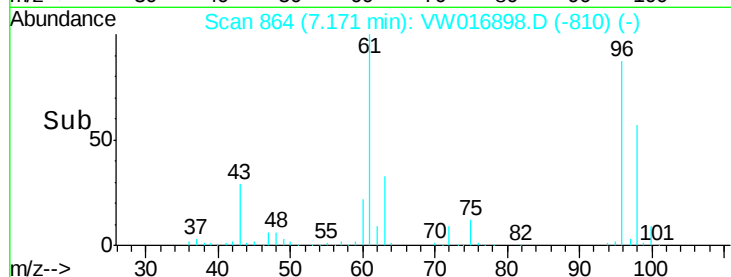
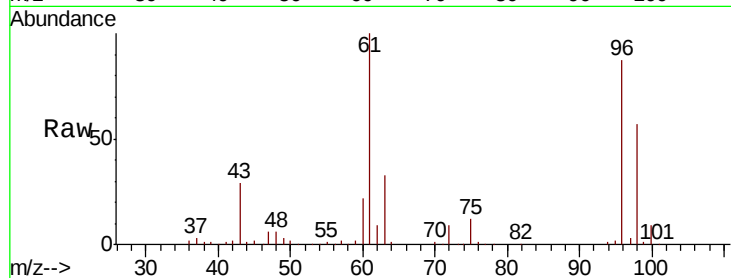


#22

cis-1,2-Dichloroethene  
 Concen: 27.518 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

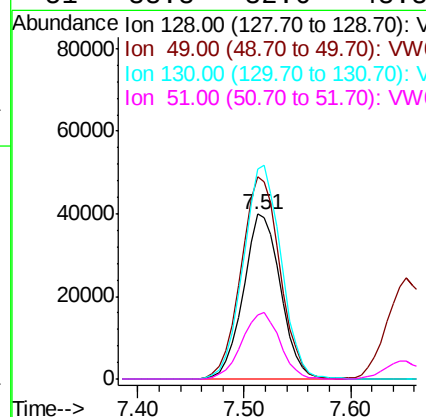
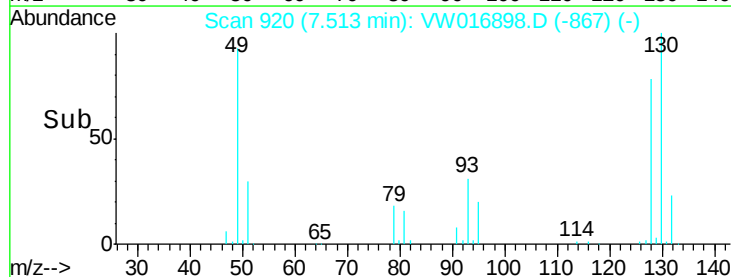
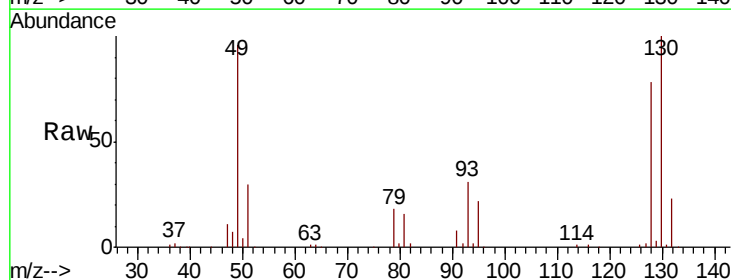
Tot Ion: 96 Resp: 213669  
 Ion Ratio Lower Upper  
 96 100  
 61 115.0 76.0 141.2  
 98 65.3 42.7 79.3

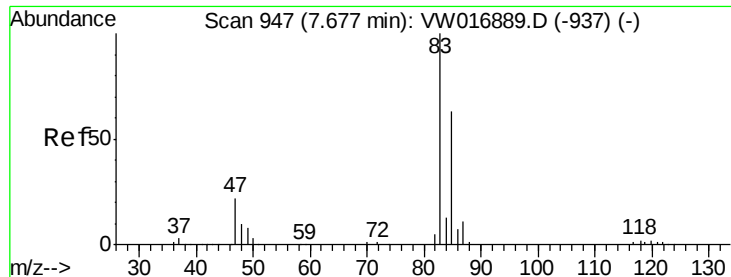


#23

Bromochloromethane  
 Concen: 26.882 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. -0.01 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Tgt Ion: 128 Resp: 98018  
 Ion Ratio Lower Upper  
 128 100  
 49 122.6 88.5 164.3  
 130 127.9 92.9 172.5  
 51 38.8 32.6 48.8

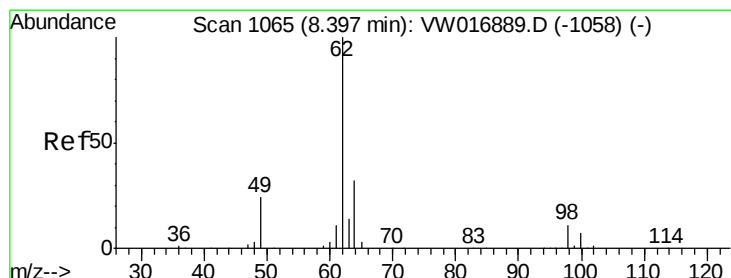
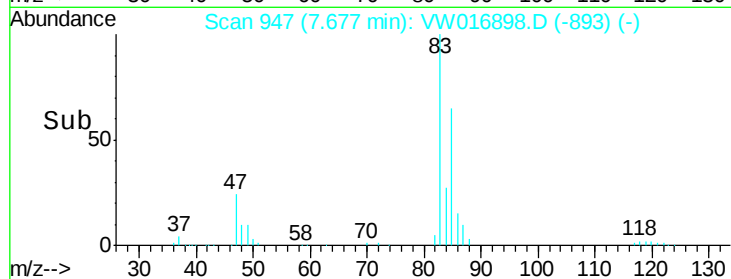
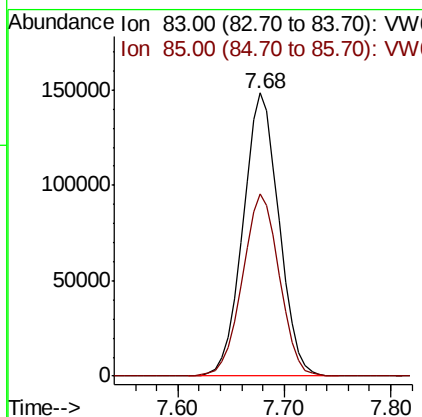
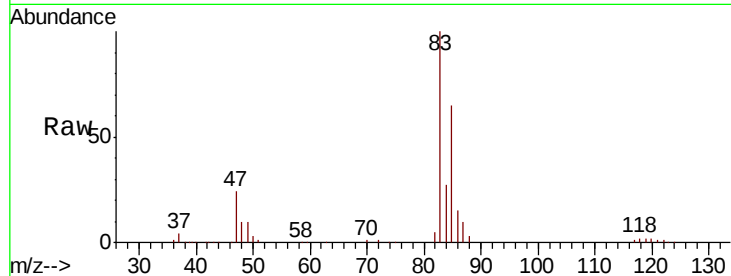




#25  
Chloroform  
Concen: 27.759 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

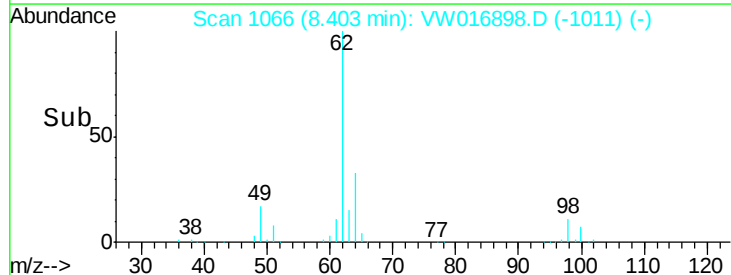
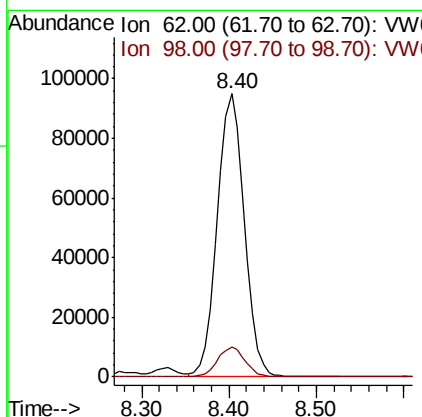
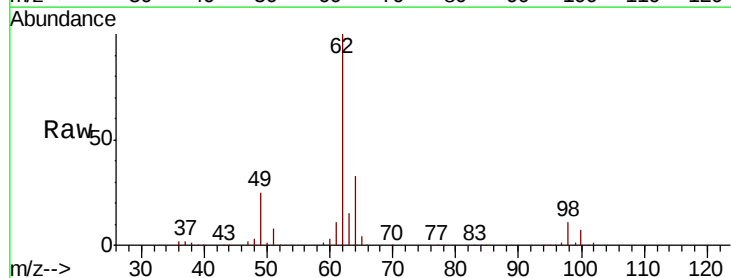
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

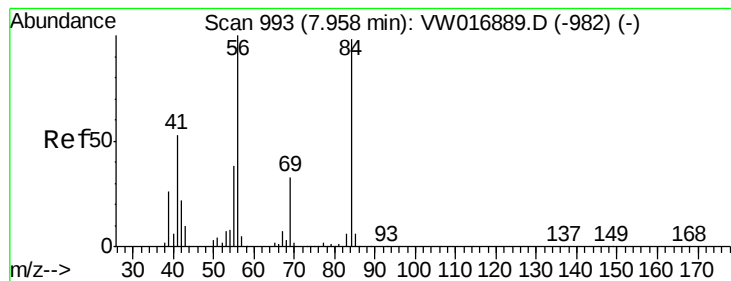
Tot Ion: 83 Resp: 351287  
Ion Ratio Lower Upper  
83 100  
85 66.2 46.9 87.1



#27  
1,2-Dichloroethane  
Concen: 26.892 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.01 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion: 62 Resp: 203582  
Ion Ratio Lower Upper  
62 100  
98 10.8 8.6 12.8





#30

Cyclohexane

Concen: 28.130 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

BFB14

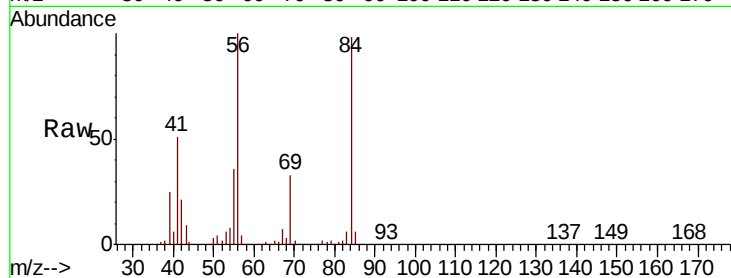
Tot Ion: 56 Resp: 293476

Ion Ratio Lower Upper

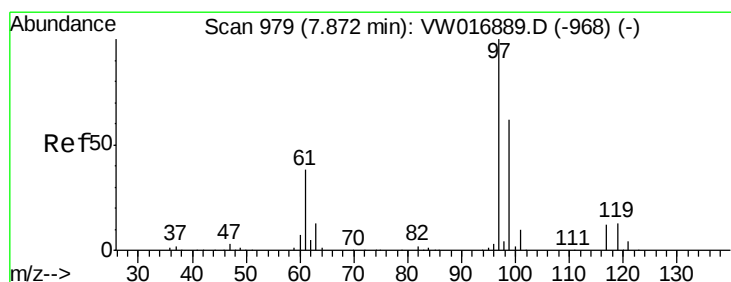
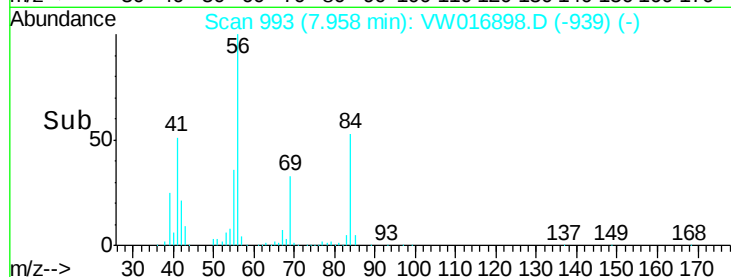
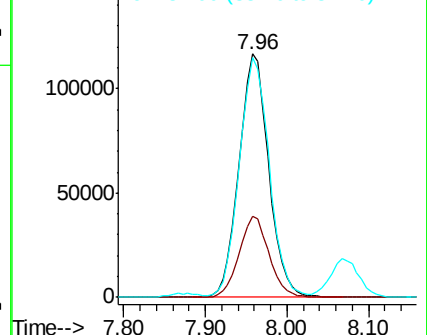
56 100

69 33.2 26.1 39.1

84 99.8 79.3 118.9



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: 28.812 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

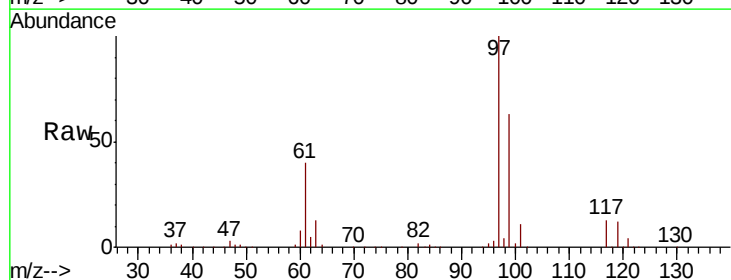
Tgt Ion: 97 Resp: 308251

Ion Ratio Lower Upper

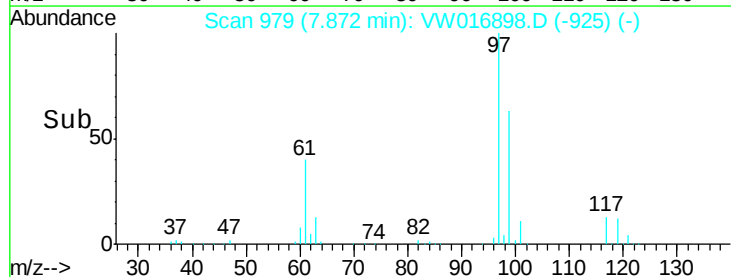
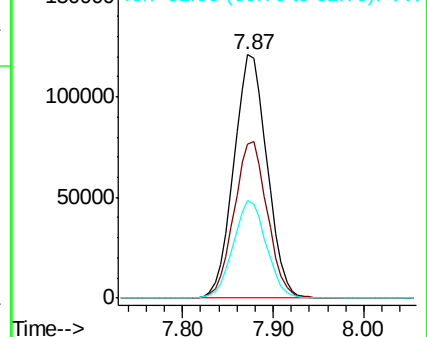
97 100

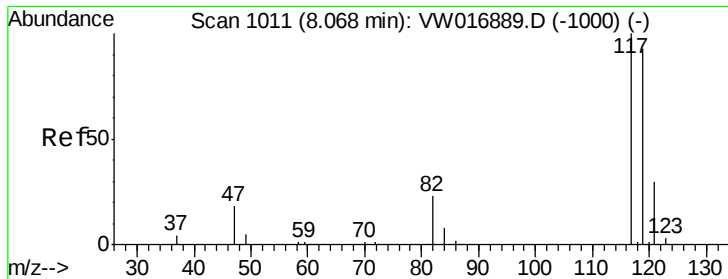
99 64.4 51.5 77.3

61 39.8 32.5 48.7



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

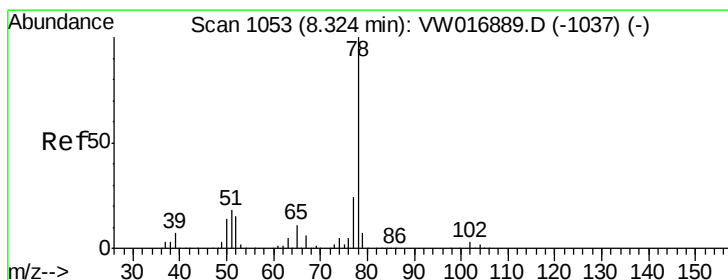
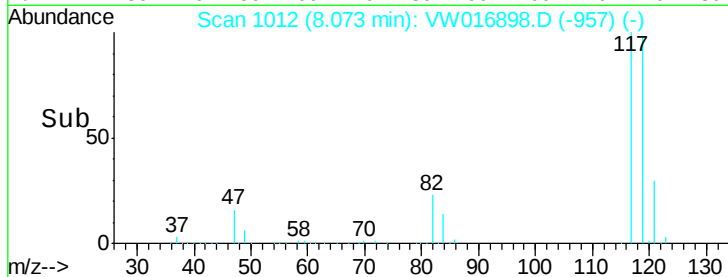
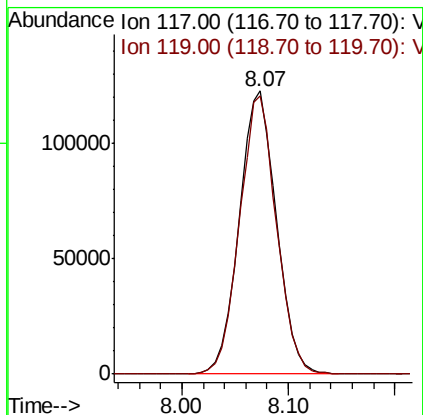
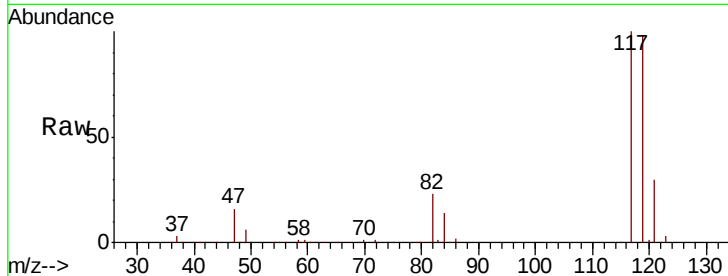




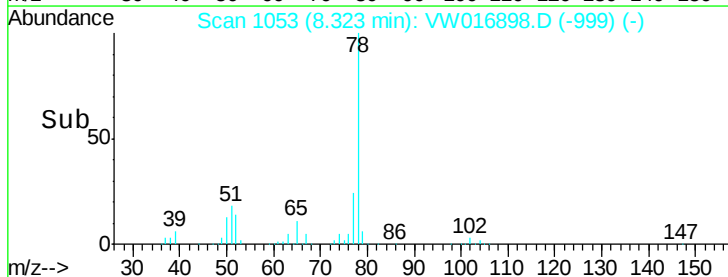
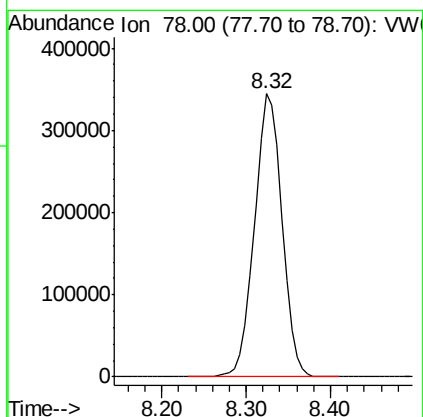
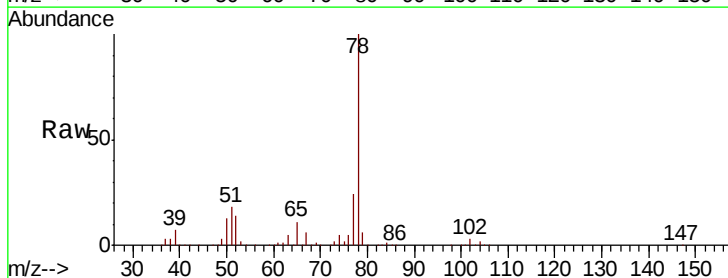
#32  
Carbon tetrachloride  
Concen: 28.750 ug/L  
RT: 8.07 min Scan# 1012  
Delta R.T. 0.01 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

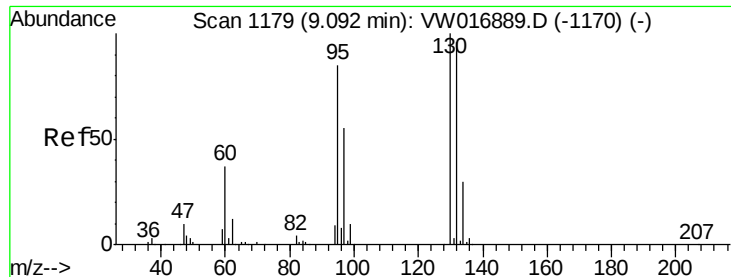
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

Tot Ion:117 Resp: 300155  
Ion Ratio Lower Upper  
117 100  
119 97.5 77.4 116.0



#34  
Benzene  
Concen: 28.427 ug/L  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10  
Tgt Ion: 78 Resp: 767999

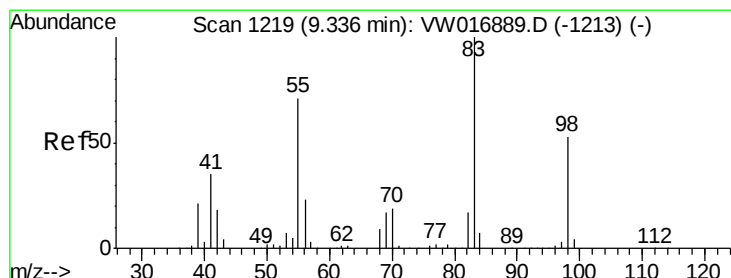
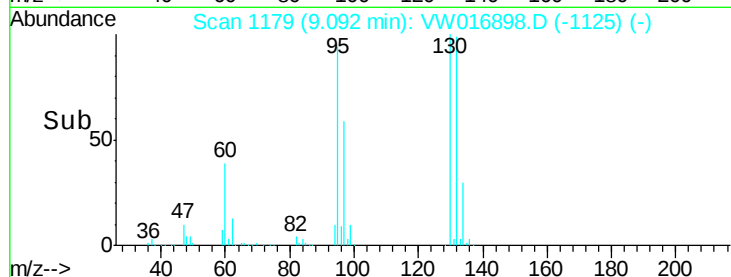
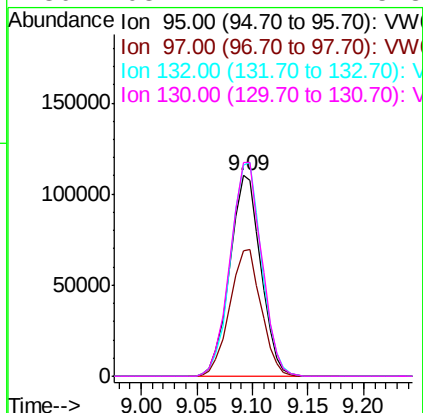
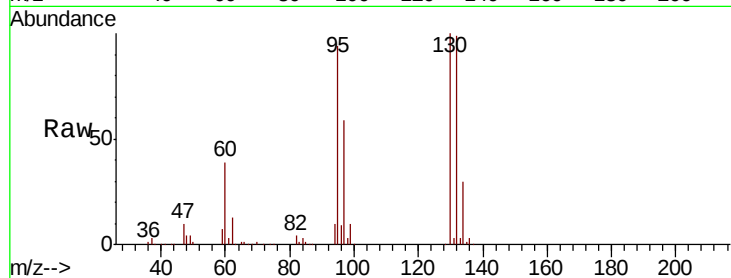




#35  
 Trichloroethene  
 Concen: 27.972 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

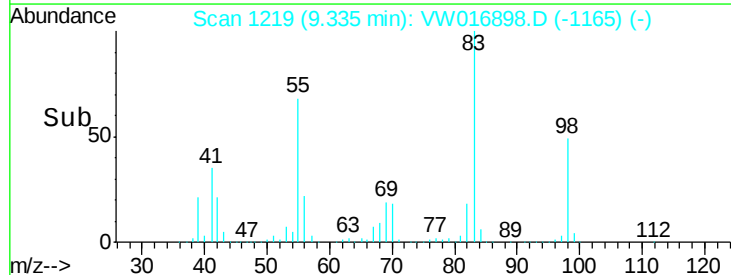
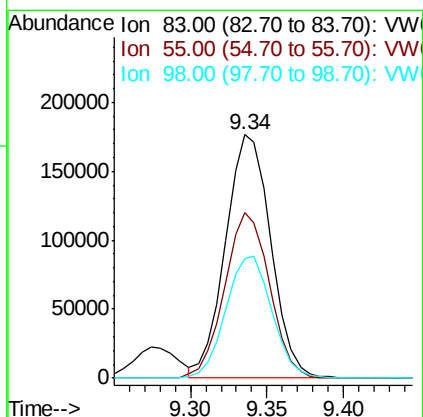
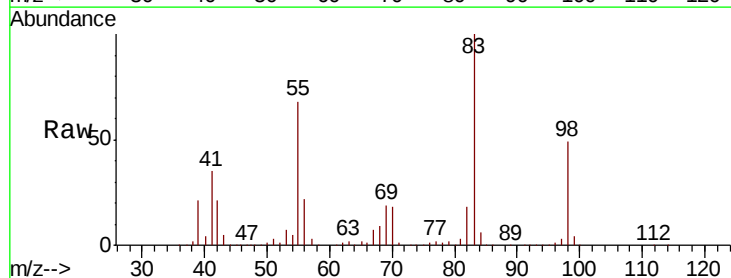
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

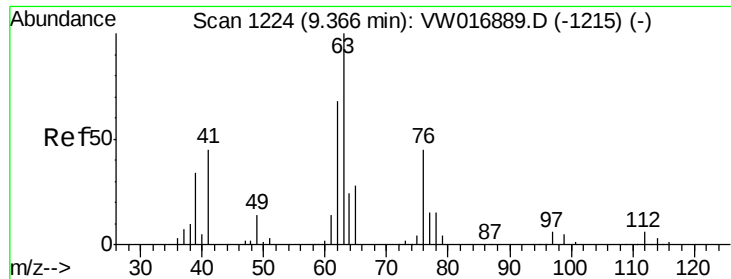
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 213761 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.1  | 44.7  | 83.1   |
| 132      | 105.9 | 73.8  | 137.2  |
| 130      | 108.1 | 77.1  | 143.3  |



#36  
 Methylcyclohexane  
 Concen: 28.294 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 363545 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 67.3  | 54.2  | 81.4   |
| 98       | 50.9  | 41.4  | 62.2   |

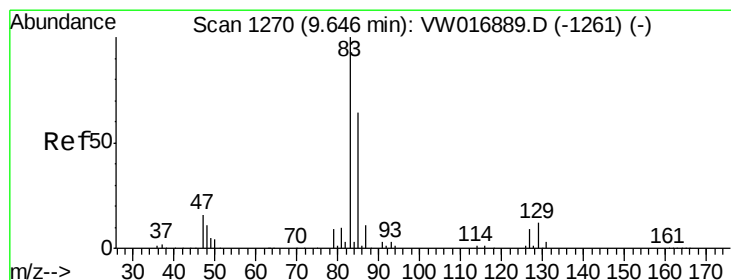
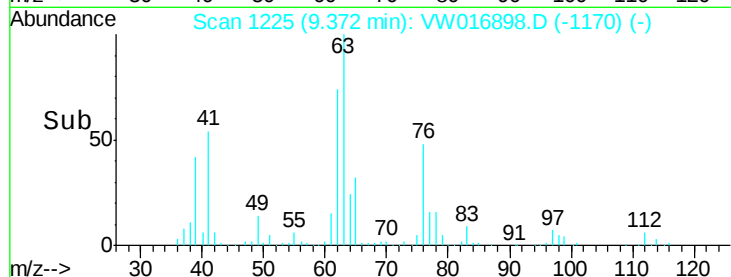
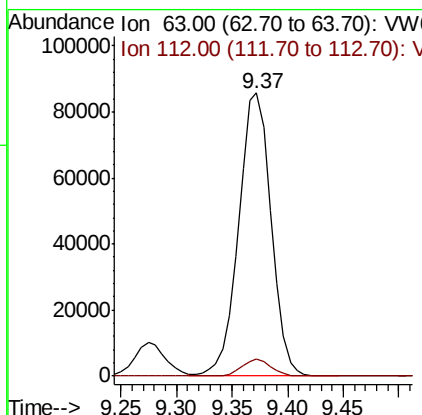
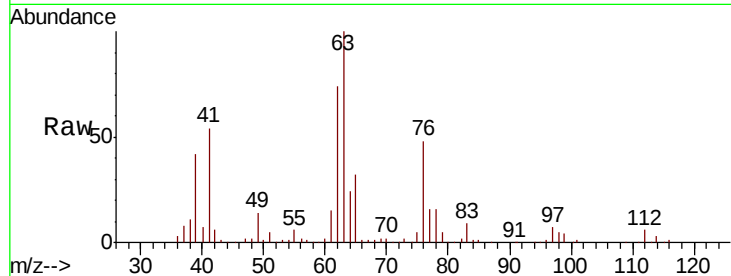




#40  
 1,2-Dichloropropane  
 Concen: 28.390 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.01 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

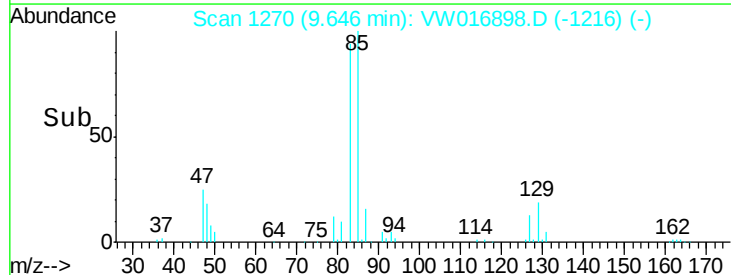
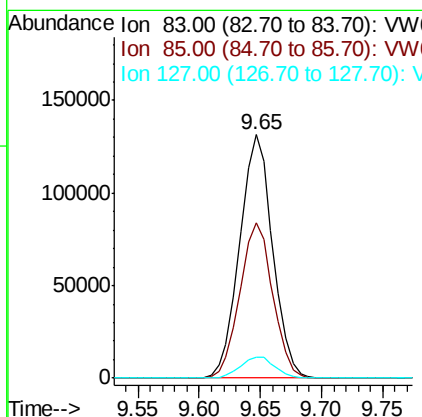
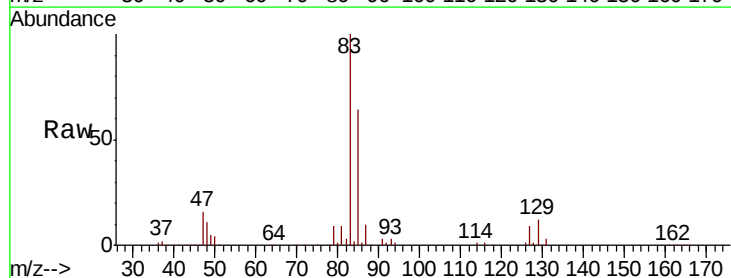
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

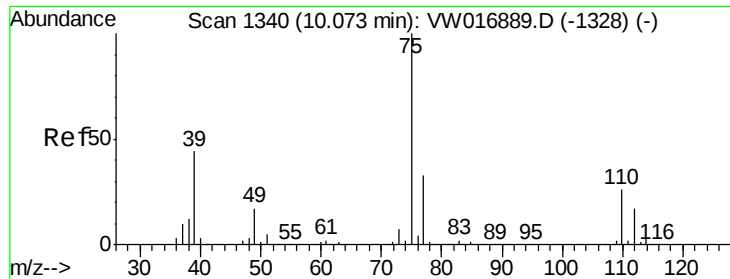
Tot Ion: 63 Resp: 173433  
 Ion Ratio Lower Upper  
 63 100  
 112 5.5 4.5 6.7



#41  
 Bromodichloromethane  
 Concen: 28.567 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Tgt Ion: 83 Resp: 245169  
 Ion Ratio Lower Upper  
 83 100  
 85 63.7 46.2 85.8  
 127 8.6 7.5 11.3

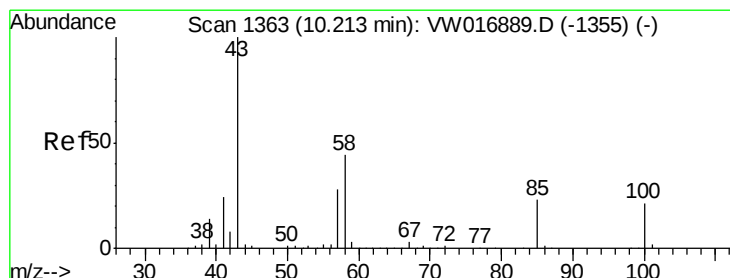
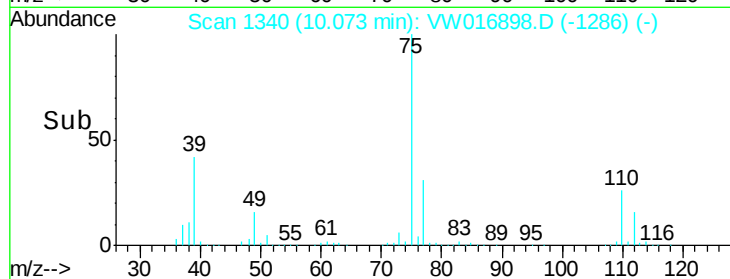
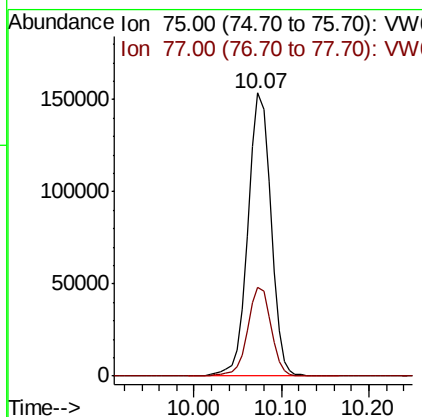
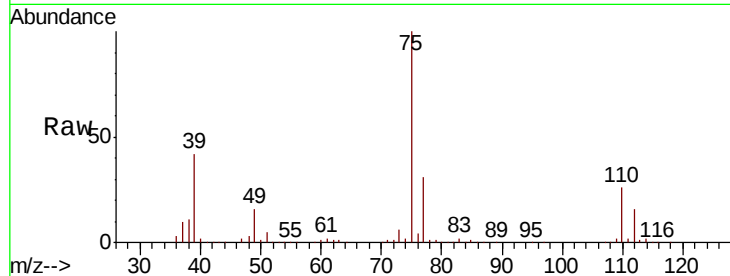




#42  
 cis-1,3-Dichloropropene  
 Concen: 28.859 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

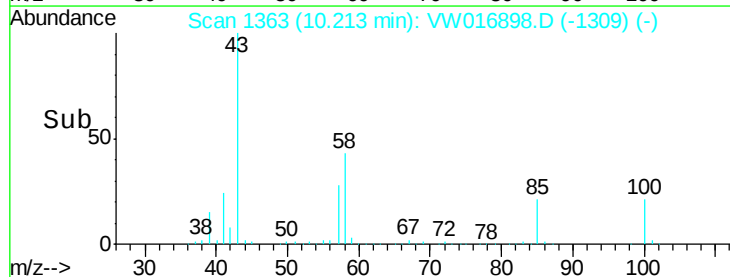
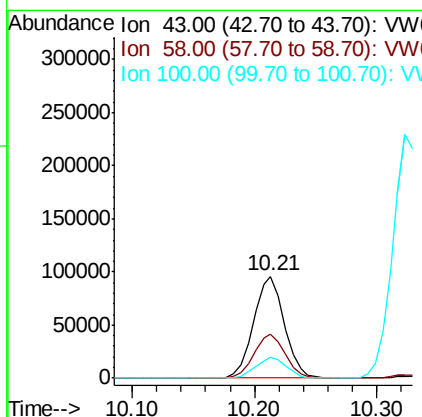
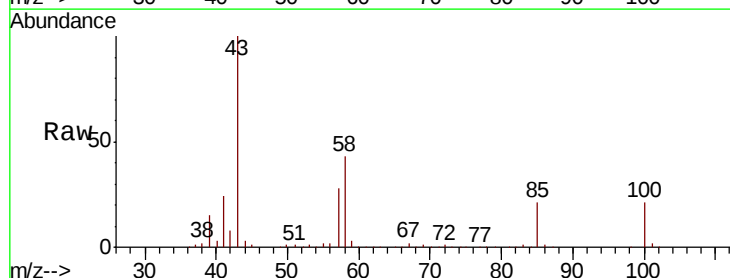
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB14

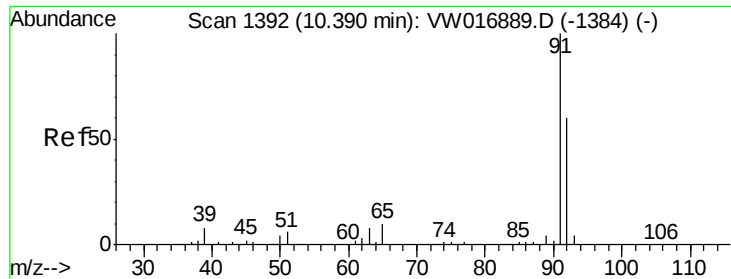
Tot Ion: 75 Resp: 281082  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 22.1 41.1



#43  
 4-Methyl-2-pentanone  
 Concen: 54.689 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Tgt Ion: 43 Resp: 168197  
 Ion Ratio Lower Upper  
 43 100  
 58 43.5 34.7 52.1  
 100 20.4 16.9 25.3





#44

Toluene

Concen: 28.351 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampled :

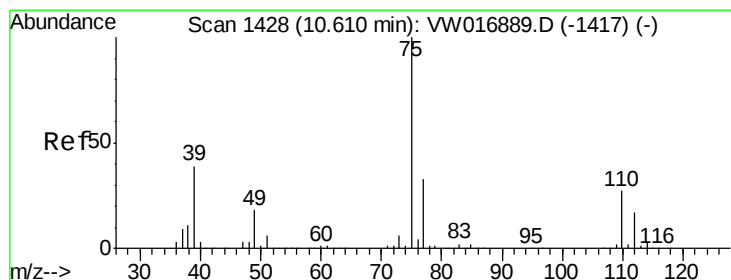
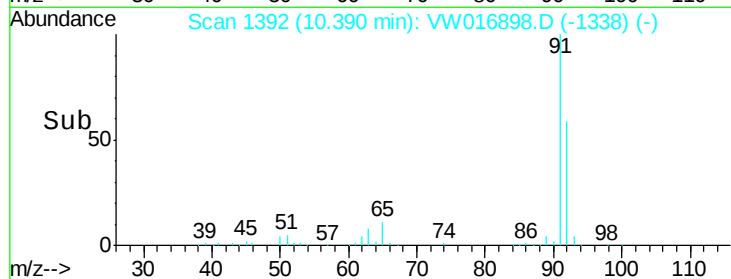
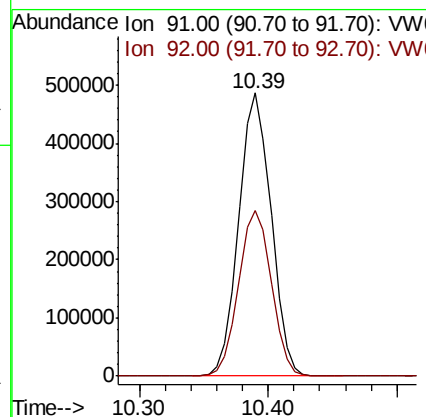
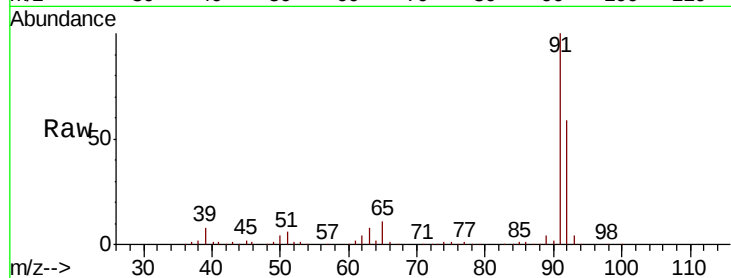
BFB14

Tot Ion: 91 Resp: 849700

Ion Ratio Lower Upper

91 100

92 58.7 39.4 73.2



#45

trans-1,3-Dichloropropene

Concen: 28.881 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016898.D

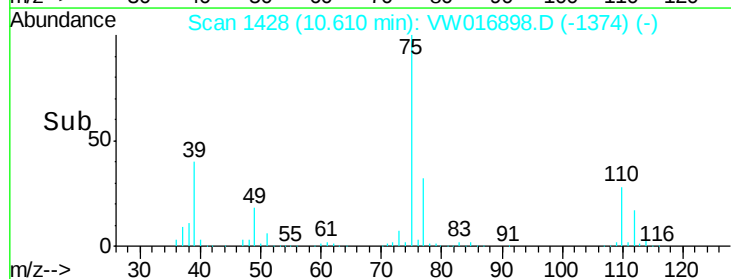
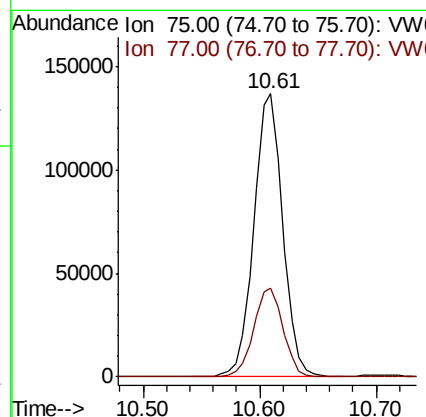
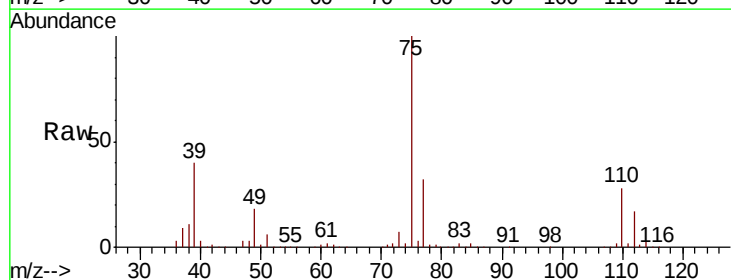
Acq: 14 Oct 2020 10:10

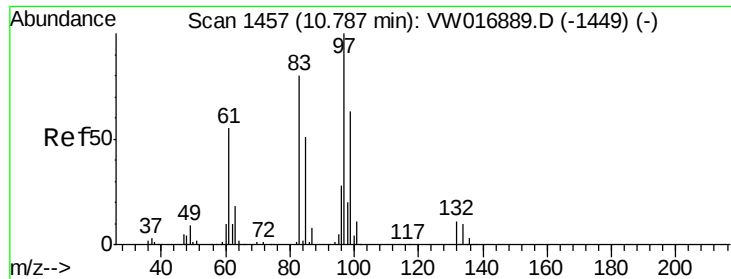
Tgt Ion: 75 Resp: 236715

Ion Ratio Lower Upper

75 100

77 31.6 22.2 41.2





#46

1,1,2-Trichloroethane

Concen: 27.501 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

BFB14

Tot Ion: 97 Resp: 136572

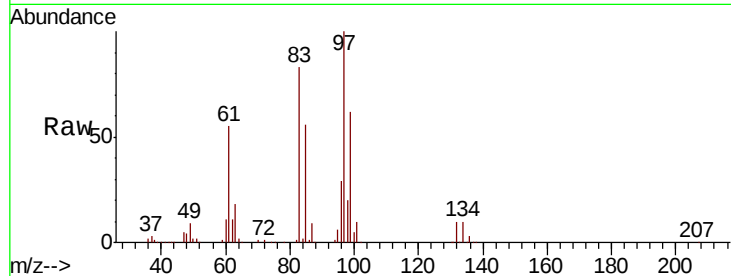
Ion Ratio Lower Upper

97 100

83 82.8 56.8 105.4

85 55.6 37.0 68.6

99 61.8 44.2 82.2

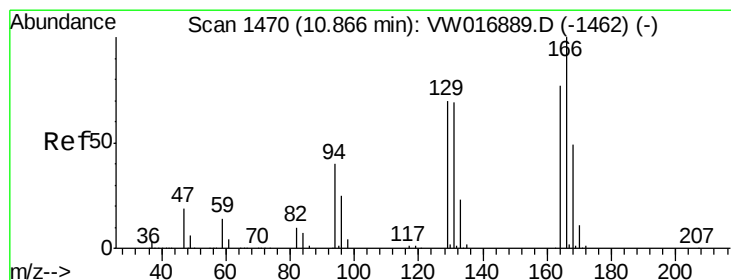
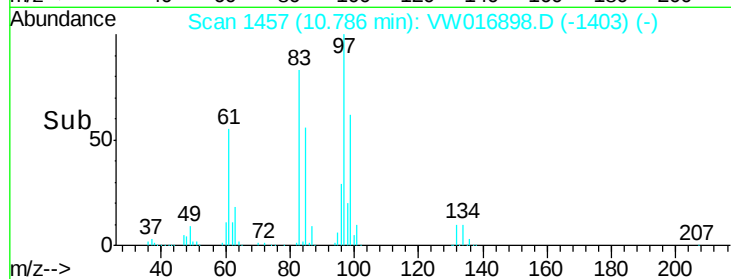
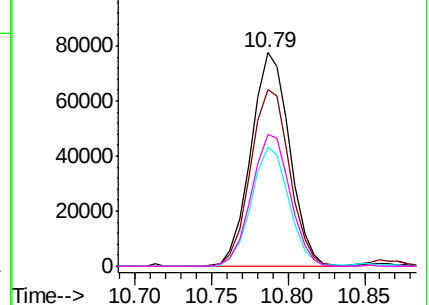


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 27.571 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Tgt Ion: 164 Resp: 195335

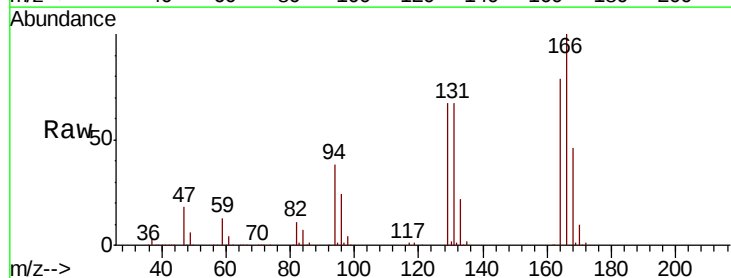
Ion Ratio Lower Upper

164 100

129 85.5 61.7 114.7

131 84.9 59.7 110.9

166 127.3 88.3 164.1

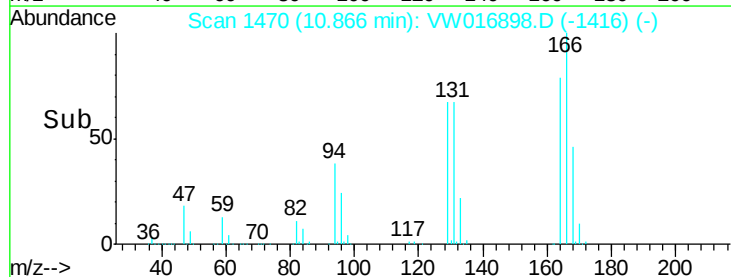
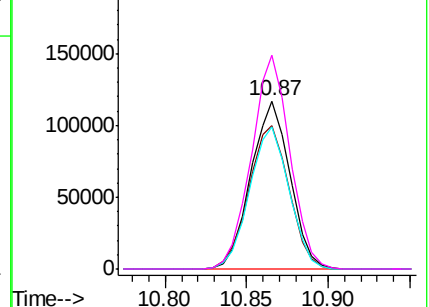


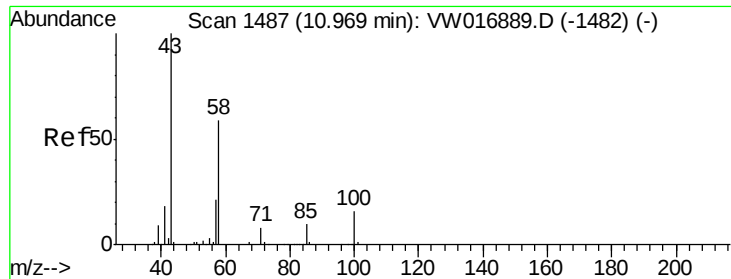
Abundance Ion 164.00 (163.70 to 164.70): V

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

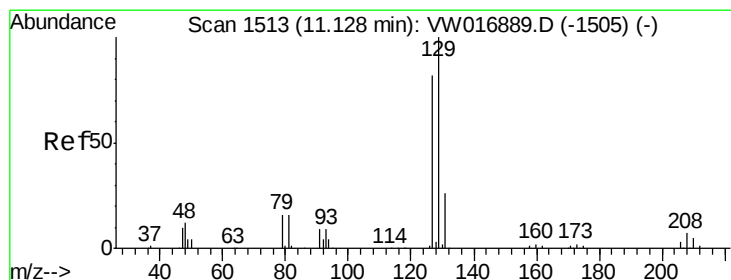
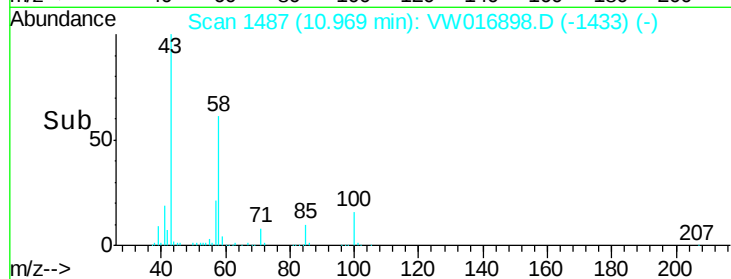
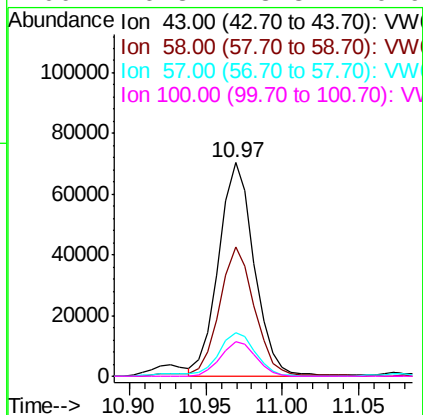
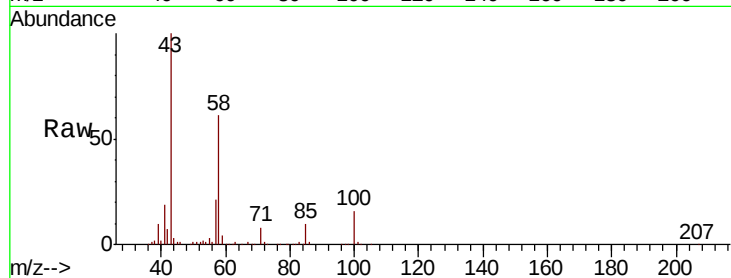




#49  
2-Hexanone  
Concen: 56.176 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

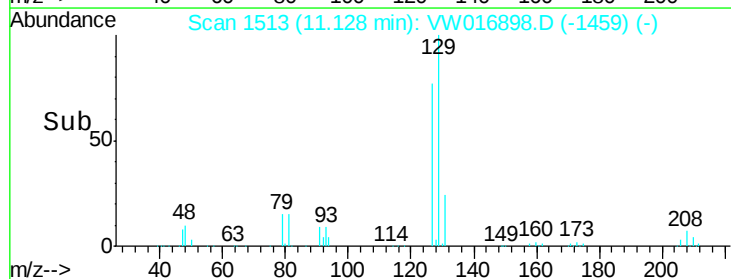
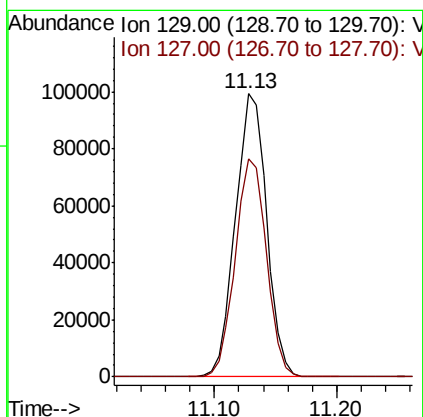
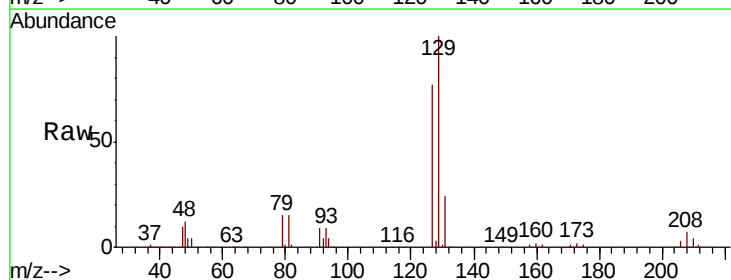
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

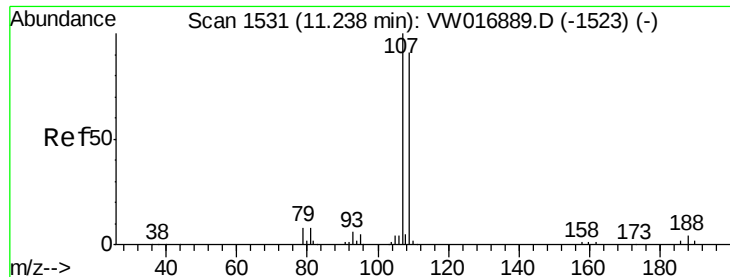
Tot Ion: 43 Resp: 114037  
Ion Ratio Lower Upper  
43 100  
58 59.0 47.1 70.7  
57 21.0 16.2 24.4  
100 16.3 13.3 19.9



#50  
Dibromochloromethane  
Concen: 28.416 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion: 129 Resp: 175430  
Ion Ratio Lower Upper  
129 100  
127 77.2 54.0 100.4





#51

1,2-Dibromoethane

Concen: 27.411 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

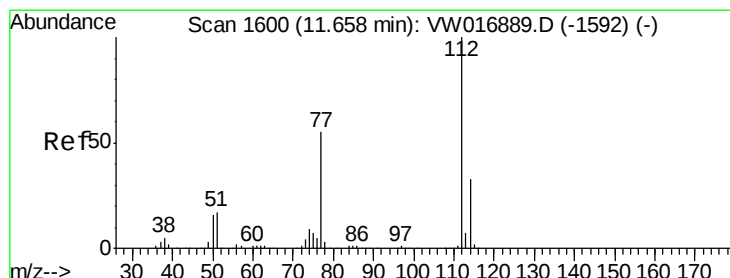
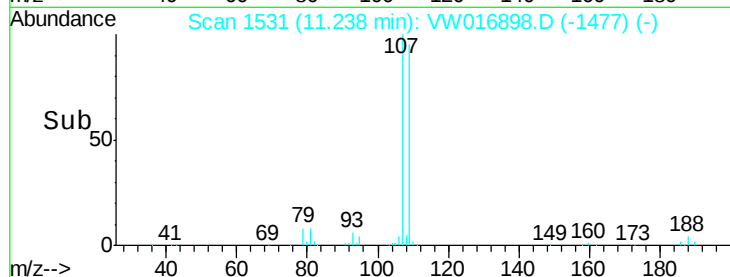
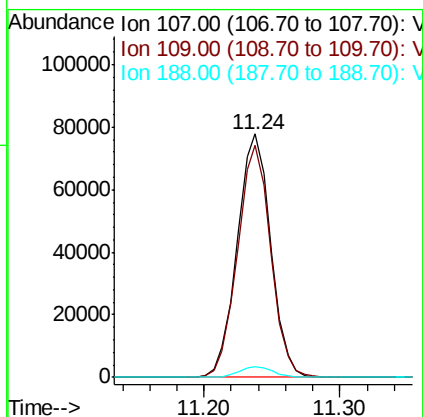
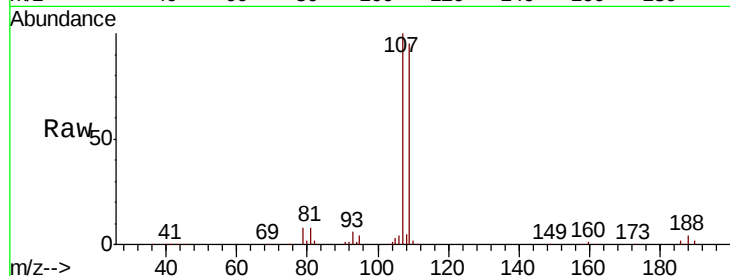
Instrument :

MSVOA\_W

ClientSampleId :

BFB14

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 107   | Resp: | 133769 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 109      | 95.2  | 68.4  | 127.0  |
| 188      | 4.3   | 3.4   | 5.0    |



#52

Chlorobenzene

Concen: 27.449 ug/L

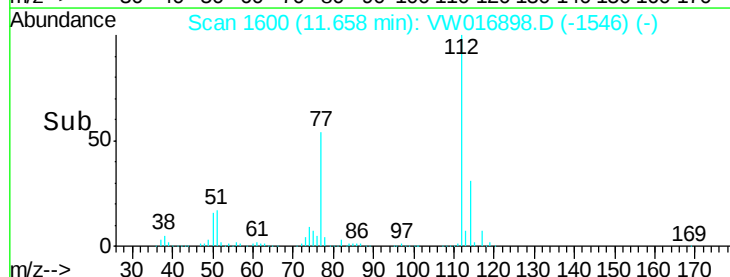
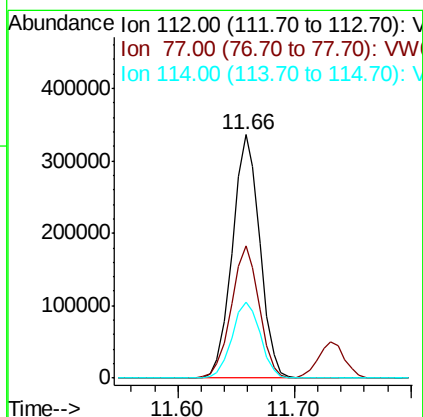
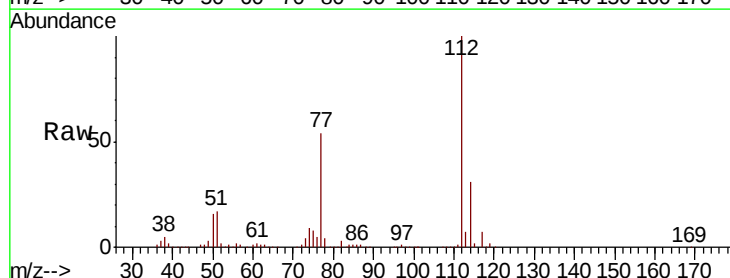
RT: 11.66 min Scan# 1600

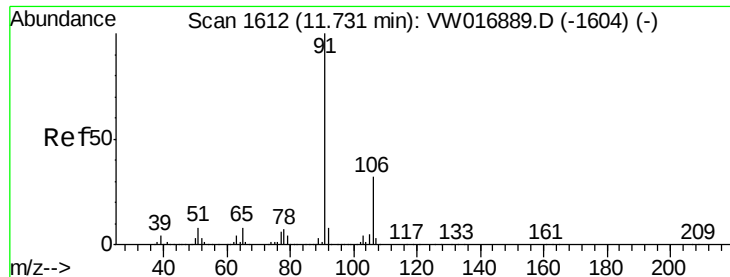
Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 552095 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 77       | 54.2  | 44.0  | 66.0   |
| 114      | 31.0  | 22.3  | 41.3   |

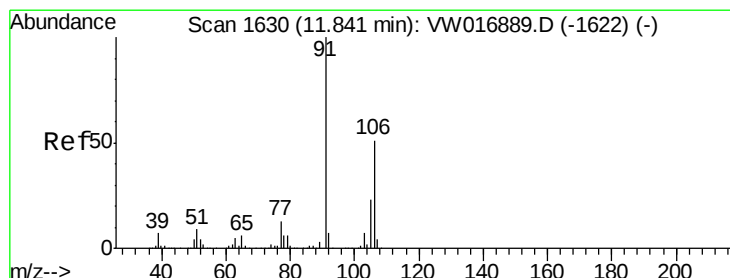
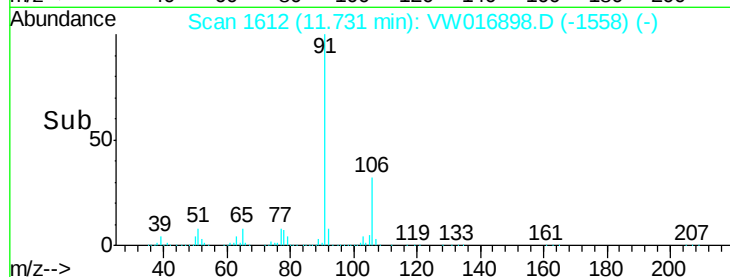
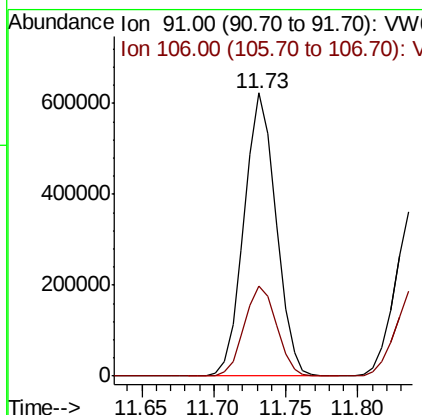
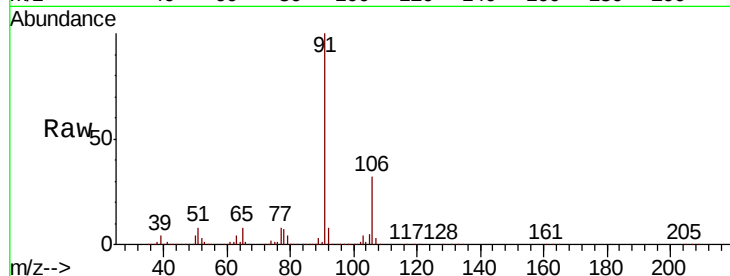




#53  
Ethylbenzene  
Concen: 28.611 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

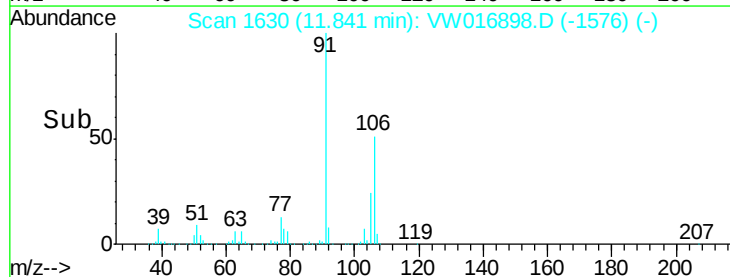
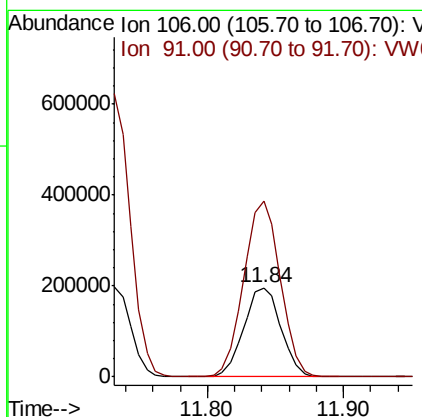
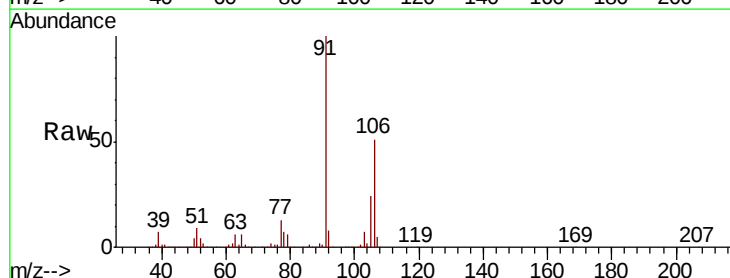
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

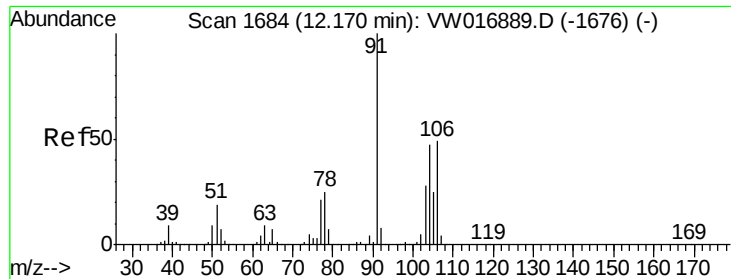
Tot Ion: 91 Resp: 961912  
Ion Ratio Lower Upper  
91 100  
106 31.7 22.8 42.4



#54  
m,p-Xylene  
Concen: 28.645 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion: 106 Resp: 374558  
Ion Ratio Lower Upper  
106 100  
91 197.1 135.6 251.8

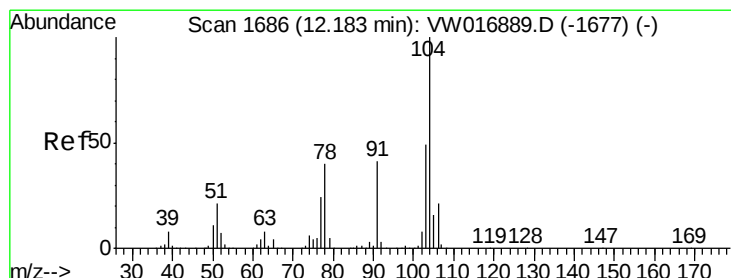
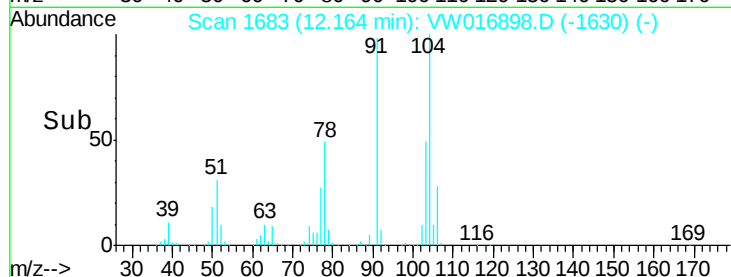
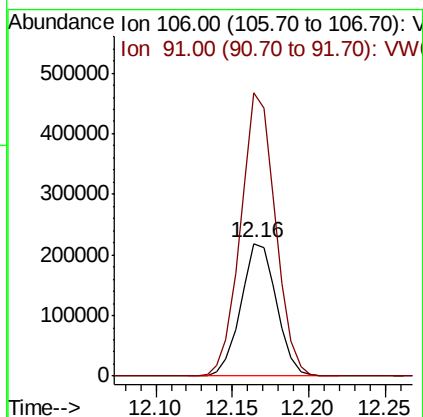
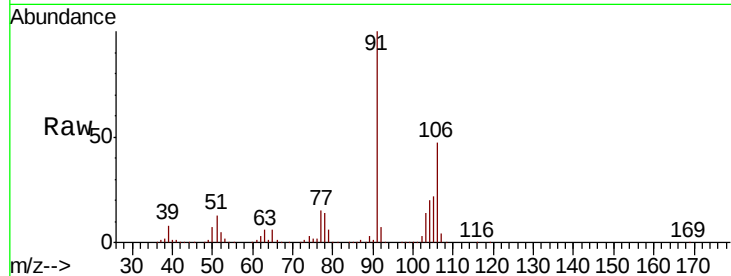




#55  
o-xylene  
Concen: 28.322 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

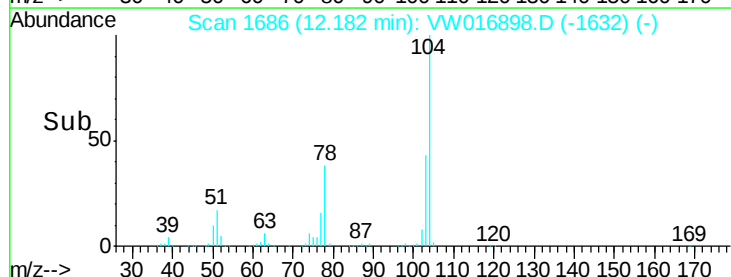
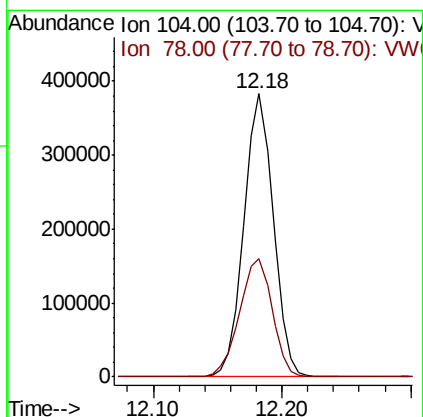
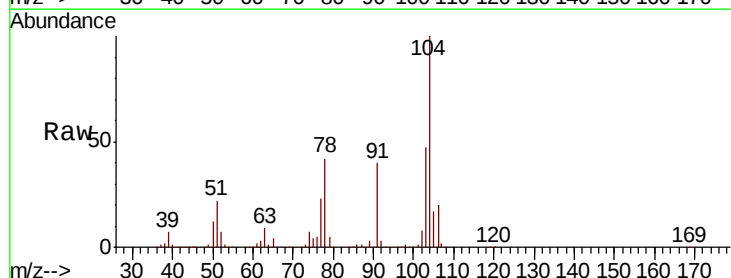
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFB14

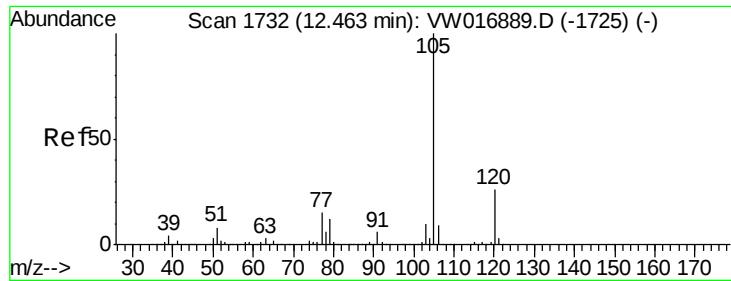
Tot Ion:106 Resp: 353827  
Ion Ratio Lower Upper  
106 100  
91 213.5 142.6 264.8



#56  
Styrene  
Concen: 29.243 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW016898.D  
Acq: 14 Oct 2020 10:10

Tgt Ion:104 Resp: 602861  
Ion Ratio Lower Upper  
104 100  
78 41.6 30.7 57.1





#57

Isopropylbenzene

Concen: 28.541 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

BFB14

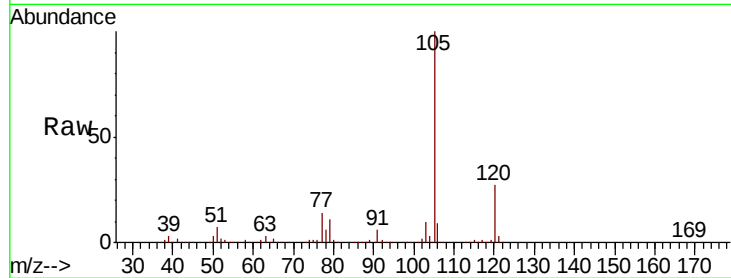
Tot Ion:105 Resp: 976398

Ion Ratio Lower Upper

105 100

120 27.1 21.5 32.3

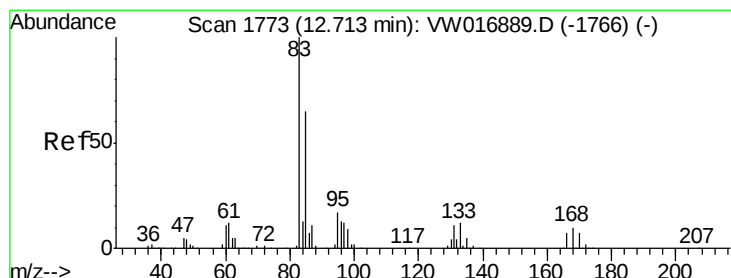
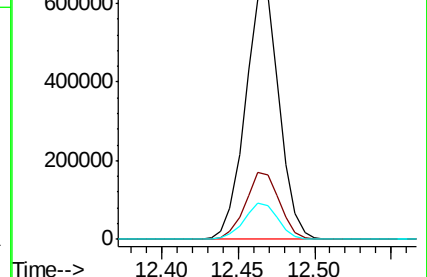
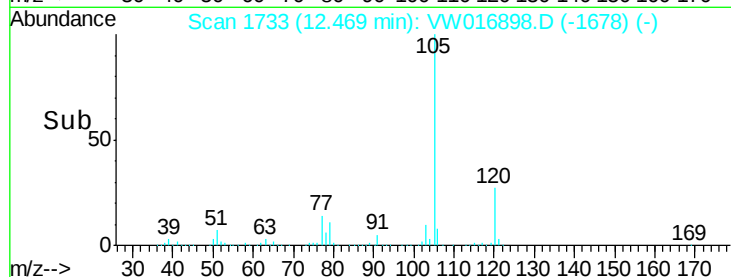
77 14.5 11.4 17.2



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: 27.470 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

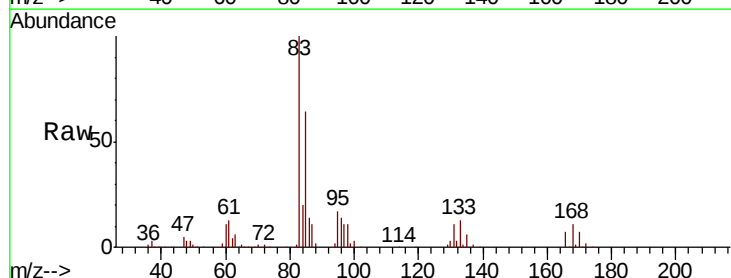
Tgt Ion: 83 Resp: 150765

Ion Ratio Lower Upper

83 100

85 63.9 43.3 80.5

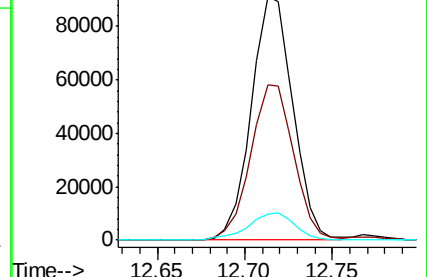
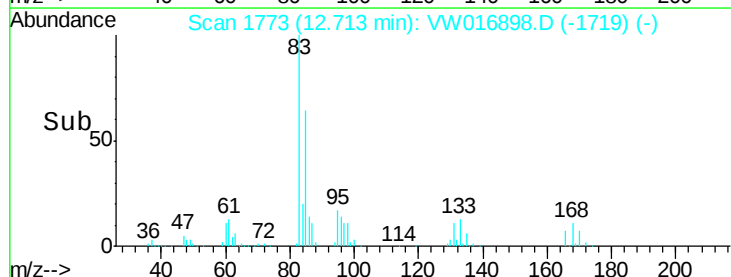
131 10.7 9.0 13.4

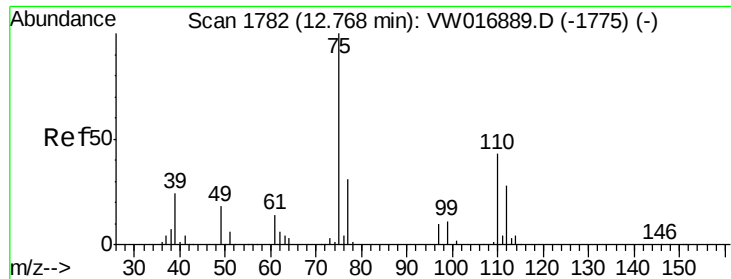


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

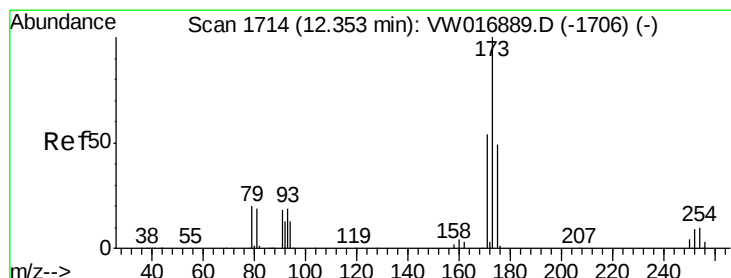
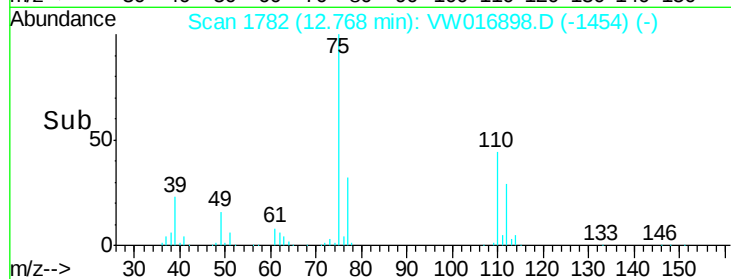
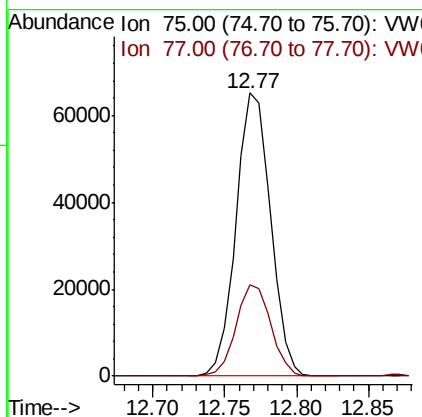
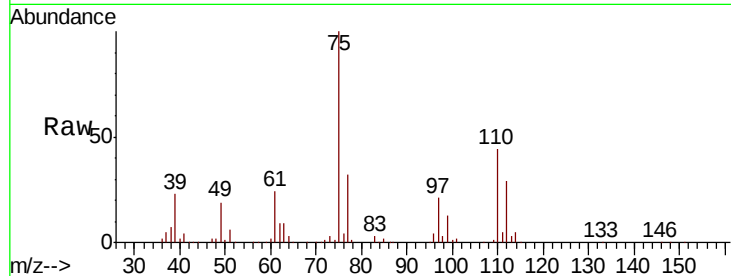




#59  
 1,2,3-Trichloropropane  
 Concen: 27.390 ug/L  
 RT: 12.77 min Scan# 1782  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

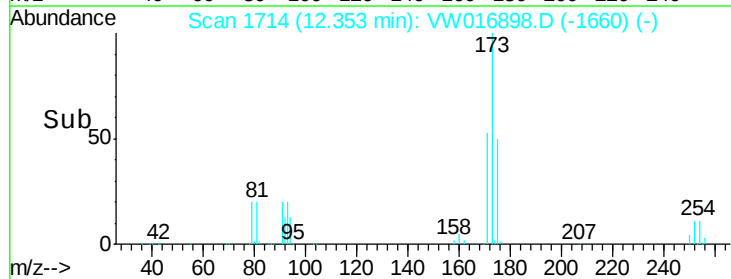
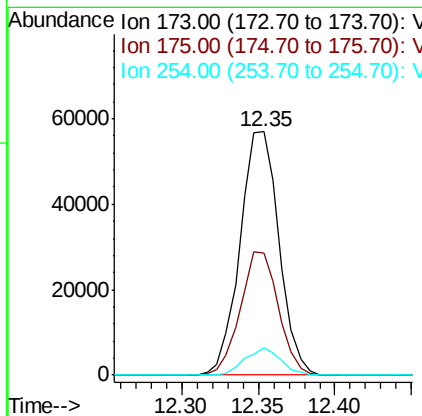
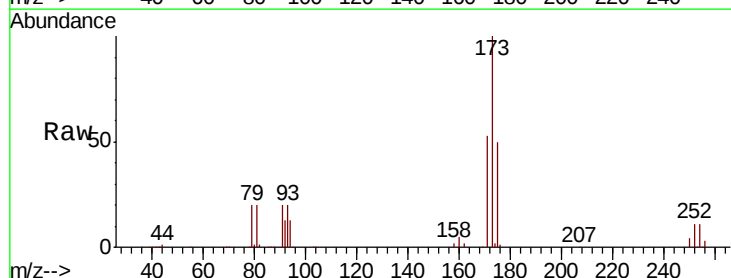
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BFB14

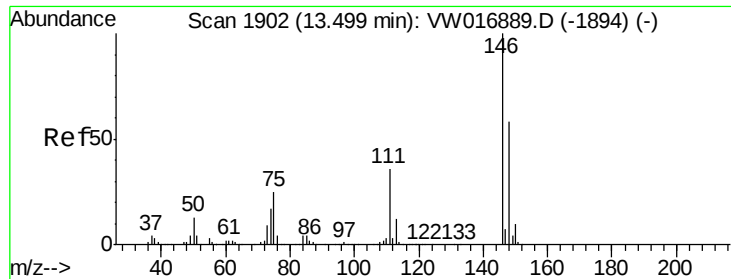
Tot Ion: 75 Resp: 108897  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 26.2 39.2



#62  
 Bromoform  
 Concen: 27.771 ug/L  
 RT: 12.35 min Scan# 1714  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Tgt Ion: 173 Resp: 100728  
 Ion Ratio Lower Upper  
 173 100  
 175 49.5 39.9 59.9  
 254 10.2 8.7 13.1

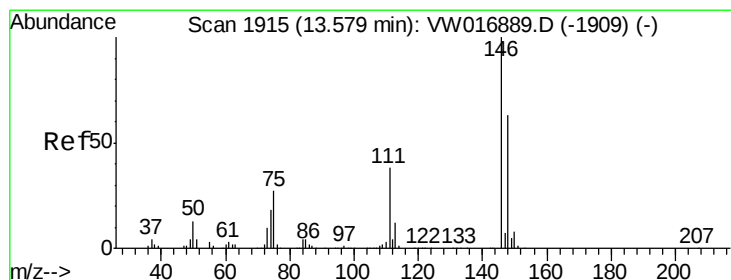
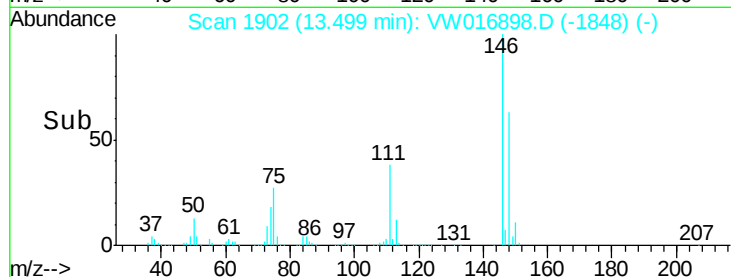
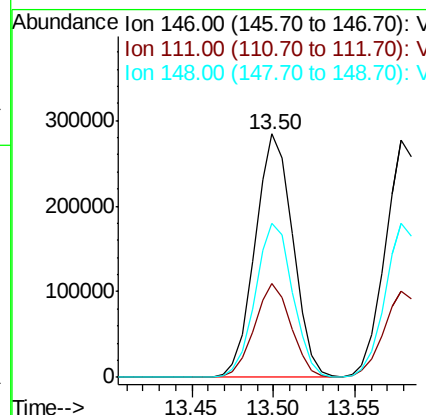
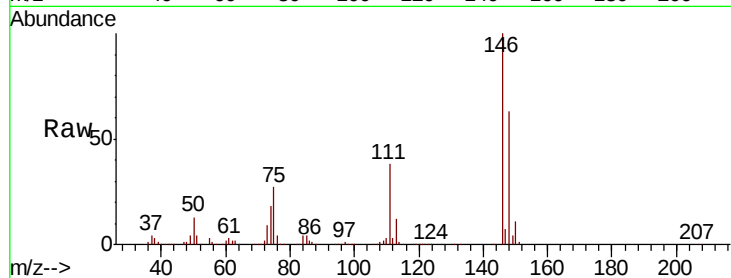




#63  
 1,3-Dichlorobenzene  
 Concen: 27.941 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

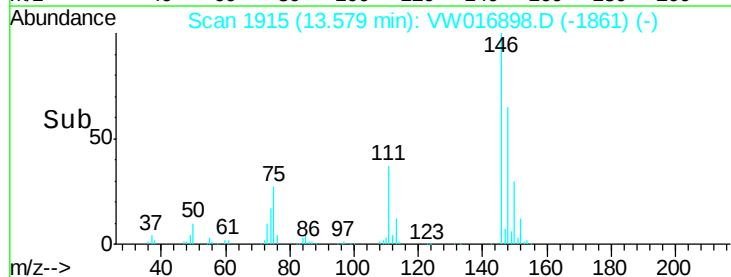
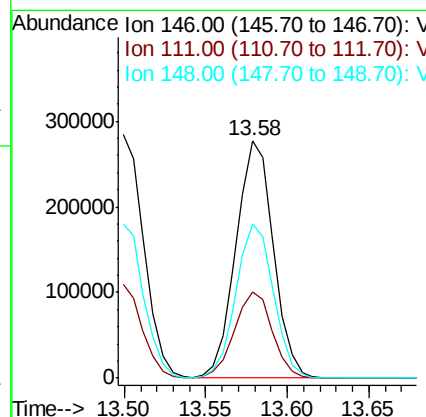
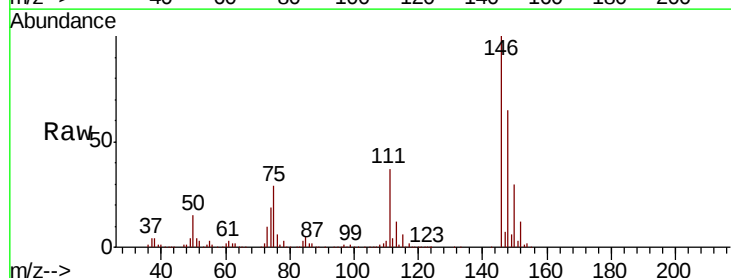
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

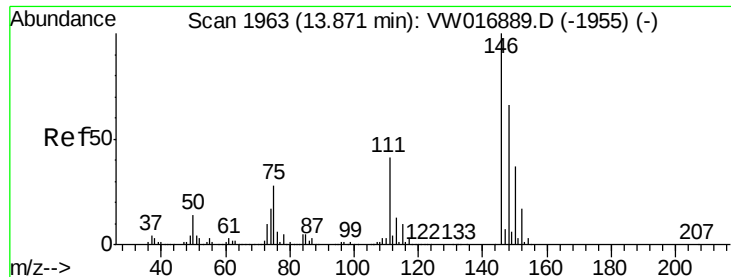
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.5  | 26.9  | 49.9  |
| 148     | 63.2  | 45.7  | 84.9  |



#64  
 1,4-Dichlorobenzene  
 Concen: 27.055 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.5  | 26.0  | 48.4  |
| 148     | 64.9  | 43.9  | 81.5  |





#65

1,2-Dichlorobenzene

Concen: 27.334 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

BFB14

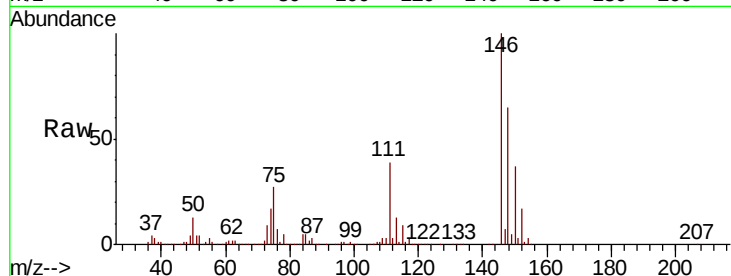
Tot Ion:146 Resp: 401600

Ion Ratio Lower Upper

146 100

111 39.0 32.1 48.1

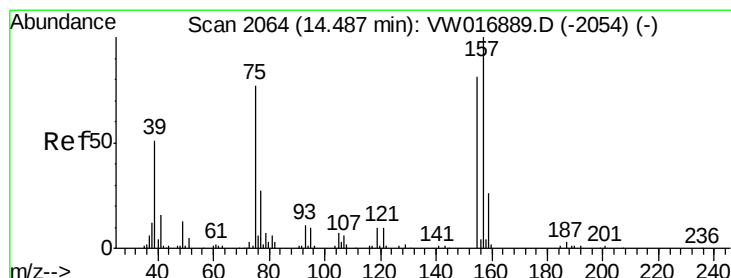
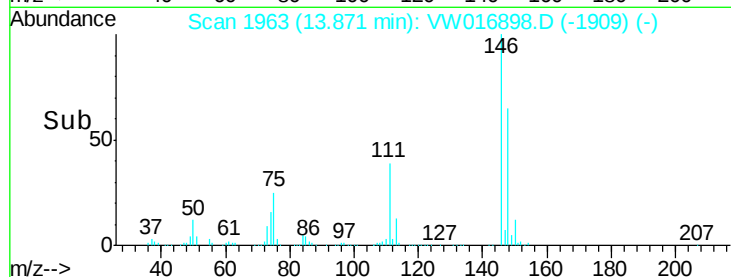
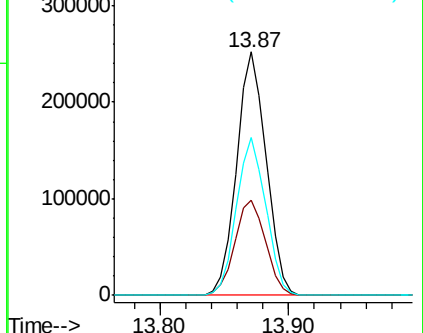
148 65.1 51.8 77.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 26.235 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

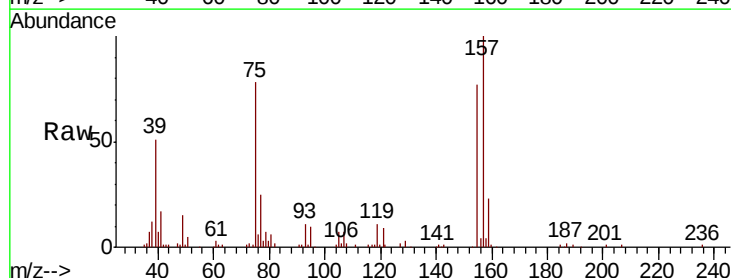
Tgt Ion: 75 Resp: 23381

Ion Ratio Lower Upper

75 100

157 128.3 100.5 150.7

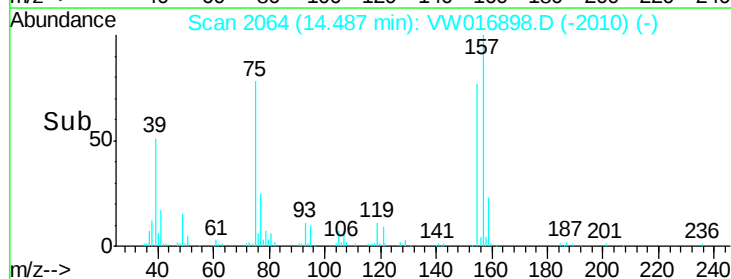
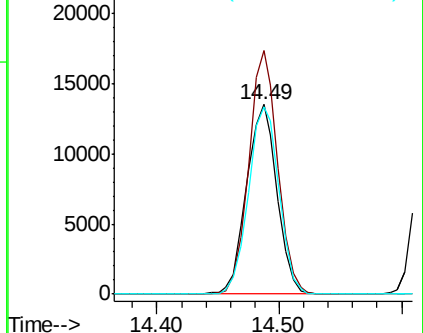
155 98.9 74.7 112.1

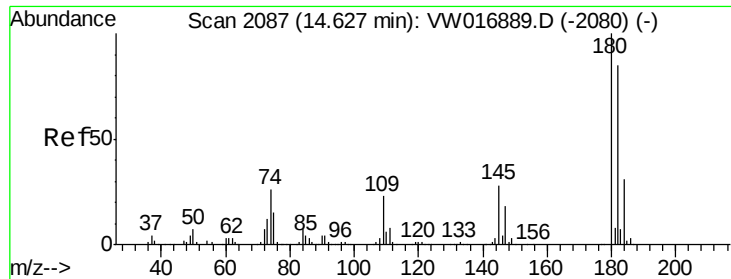


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

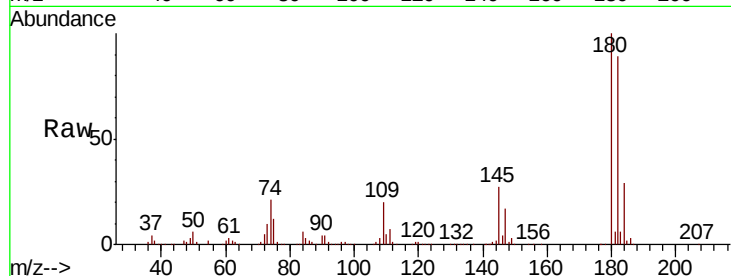




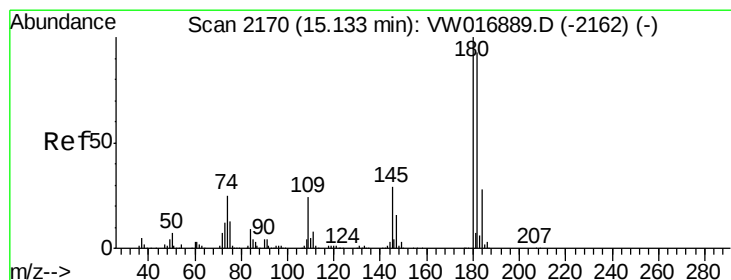
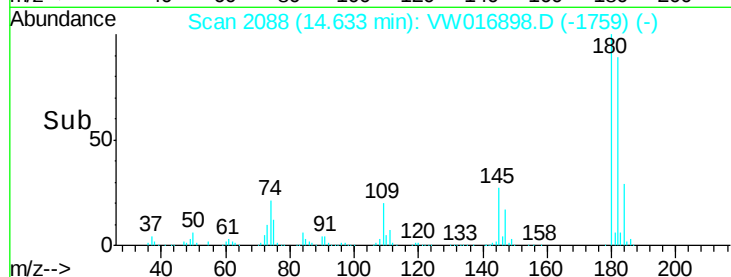
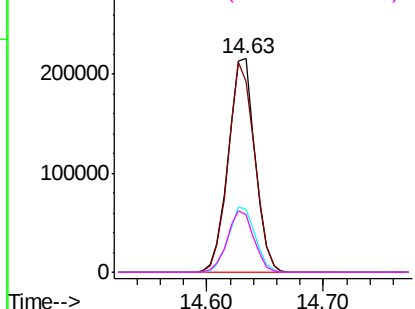
#67  
 1,3,5-Trichlorobenzene  
 Concen: 28.265 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.01 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB14

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:180 | Resp: | 344769      |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 96.6  | 79.0 118.6  |
| 184         | 30.4  | 24.9 37.3   |
| 145         | 28.7  | 23.0 34.4   |

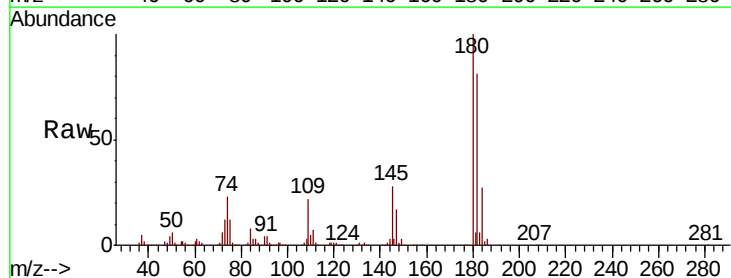


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

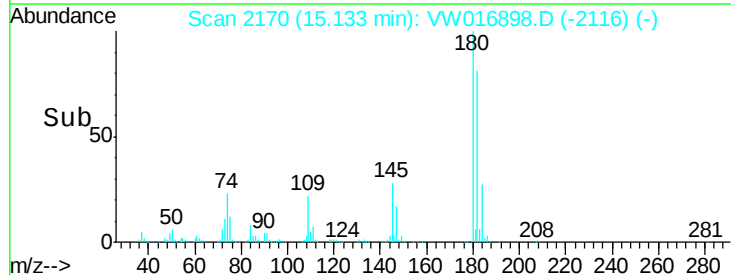
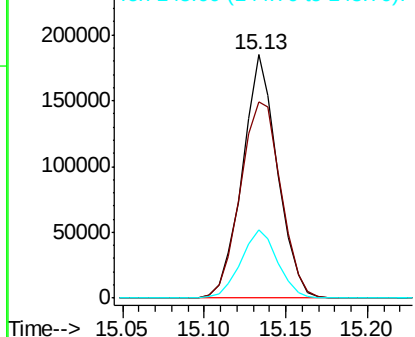


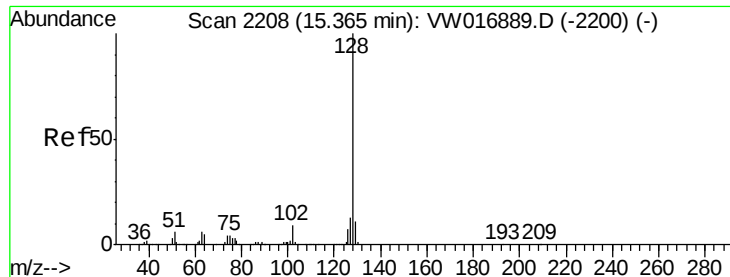
#68  
 1,2,4-trichlorobenzene  
 Concen: 27.724 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW016898.D  
 Acq: 14 Oct 2020 10:10

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 277758      |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 93.1  | 74.2 111.2  |
| 145         | 29.6  | 23.4 35.0   |



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: 28.306 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

Instrument :

MSVOA\_W

ClientSampleId :

BFB14

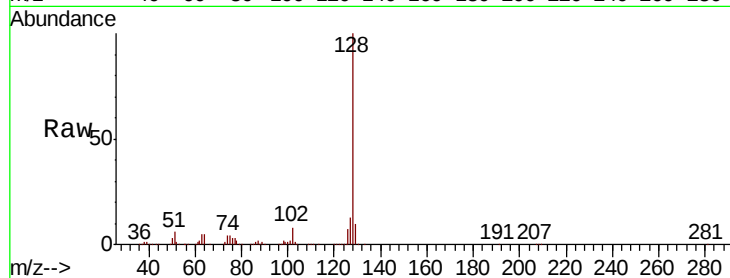
Tot Ion:128 Resp: 469612

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

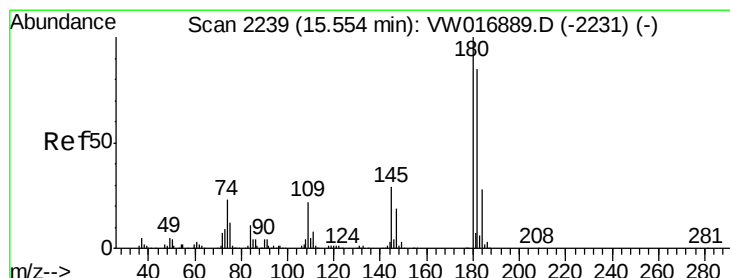
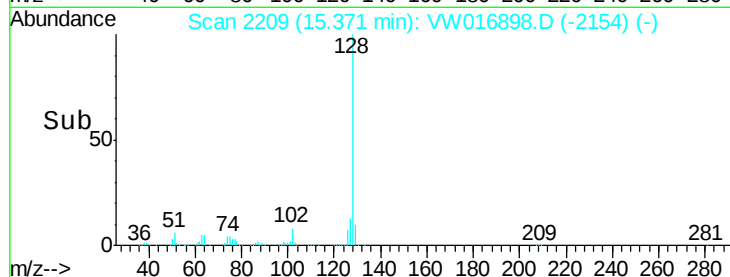
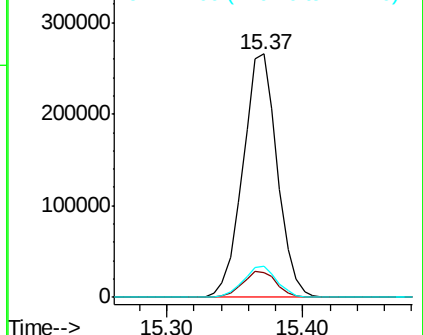
127 12.6 10.1 15.1



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: 27.631 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW016898.D

Acq: 14 Oct 2020 10:10

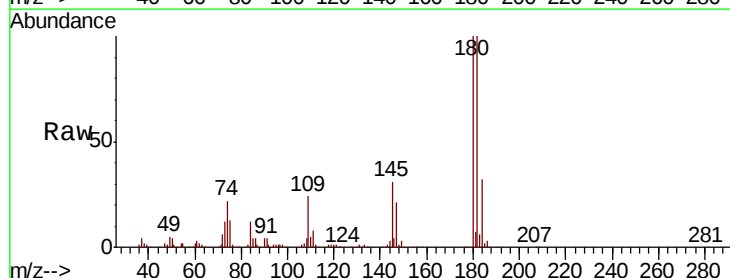
Tgt Ion:180 Resp: 237877

Ion Ratio Lower Upper

180 100

182 96.9 74.1 111.1

145 31.6 24.8 37.2



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

