

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090820\  
 Data File : VW016489.D  
 Acq On : 08 Sep 2020 09:21  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 09 01:31:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 08 03:07:14 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 730217   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 649976   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 305805   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 162339   | 20.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.80% |
| 7) Chloroethane-d5             | 2.90   | 69    | 163901   | 23.56    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.24% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 389355   | 21.86    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 87.44% |
| 20) 2-Butanone-d5              | 7.09   | 46    | 88202    | 31.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 63.76% |
| 24) Chloroform-d               | 7.65   | 84    | 391629   | 22.90    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 91.60% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 194481   | 20.79    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 83.16% |
| 29) Benzene-d6                 | 8.28   | 84    | 761099   | 23.03    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 92.12% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 212511   | 21.89    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 87.56% |
| 37) Toluene-d8                 | 10.33  | 98    | 735921   | 23.43    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.72% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 103817   | 21.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 84.80% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 73319    | 36.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 73.90% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 168929   | 20.58    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 82.32% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 254002   | 24.04    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.16% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.02 | 85  | 203582 | 24.919 | ug/L 96  |
| 3) Chloromethane               | 2.22 | 50  | 165158 | 23.026 | ug/L 97  |
| 5) Vinyl chloride              | 2.37 | 62  | 232439 | 25.443 | ug/L 98  |
| 6) Bromomethane                | 2.79 | 94  | 196746 | 28.814 | ug/L 99  |
| 8) Chloroethane                | 2.94 | 64  | 153787 | 27.364 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.28 | 101 | 220932 | 29.529 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 233905 | 26.432 | ug/L 97  |
| 12) 1,1-Dichloroethene         | 4.05 | 96  | 231493 | 25.727 | ug/L 88  |
| 13) Acetone                    | 4.14 | 43  | 65585  | 36.932 | ug/L 98  |
| 14) Carbon disulfide           | 4.39 | 76  | 699895 | 25.452 | ug/L 100 |
| 15) Methyl Acetate             | 4.68 | 43  | 74465  | 17.290 | ug/L 94  |
| 16) Methylene chloride         | 4.92 | 84  | 221985 | 19.479 | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 312643 | 23.161 | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 241573 | 25.275 | ug/L 94  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 386490 | 23.759 | ug/L 98  |
| 21) 2-Butanone                 | 7.18 | 43  | 100616 | 33.758 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 247864 | 24.893 | ug/L 96  |

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 ClientSampleId :

Quant Time: Sep 09 01:31:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 08 03:07:14 2020  
 Response via : Initial Calibration

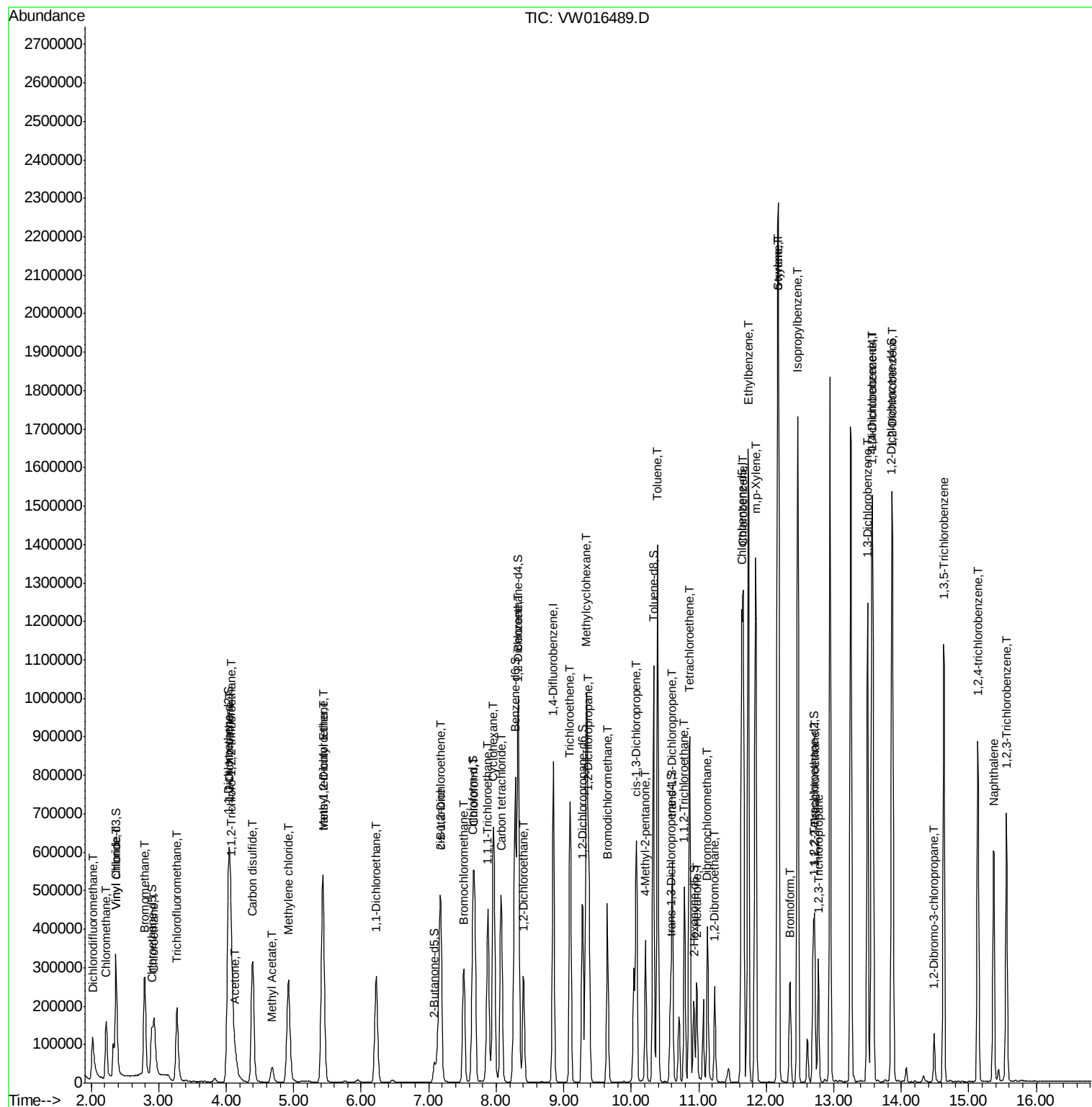
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 111519   | 24.162 | ug/L  | 88       |
| 25) Chloroform                  | 7.68  | 83   | 411804   | 24.458 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 252773   | 22.545 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 372999   | 24.024 | ug/L  | 94       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 375348   | 26.669 | ug/L  | 98       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 363444   | 26.998 | ug/L  | 99       |
| 34) Benzene                     | 8.33  | 78   | 885147   | 24.907 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 251732   | 25.564 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 440608   | 25.574 | ug/L  | 95       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 209004   | 23.786 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 297488   | 24.217 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 357375   | 23.967 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 226116   | 36.342 | ug/L  | 95       |
| 44) Toluene                     | 10.39 | 91   | 1015472  | 25.536 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 310553   | 23.301 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 162700   | 23.363 | ug/L  | 96       |
| 47) Tetrachloroethene           | 10.87 | 164  | 198229   | 25.107 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 151195   | 34.893 | ug/L  | 94       |
| 50) Dibromochloromethane        | 11.13 | 129  | 211093   | 23.972 | ug/L  | 96       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 157827   | 22.680 | ug/L  | 97       |
| 52) Chlorobenzene               | 11.66 | 112  | 660835   | 26.197 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 1151956  | 25.718 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 442578   | 25.853 | ug/L  | 96       |
| 55) o-xylene                    | 12.17 | 106  | 425598   | 26.099 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 708945   | 25.303 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.47 | 105  | 1159114  | 25.948 | ug/L  | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 179428   | 21.613 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 130265   | 20.995 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 119539   | 23.295 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 501134   | 26.029 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 490025   | 25.669 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 447788   | 26.166 | ug/L  | 91       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 30547    | 19.170 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 350538   | 26.416 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 264240   | 23.022 | ug/L  | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 539856   | 22.286 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 241203   | 24.476 | ug/L  | 97       |

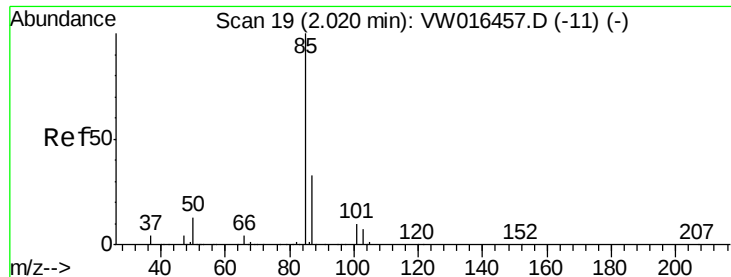
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
ClientSampled :

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Quant Title : VOC Analysis  
QLast Update : Tue Sep 08 03:07:14 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 24.919 ug/L

RT: 2.02 min Scan# 19

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

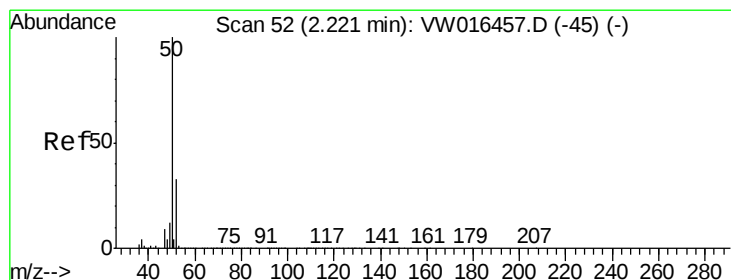
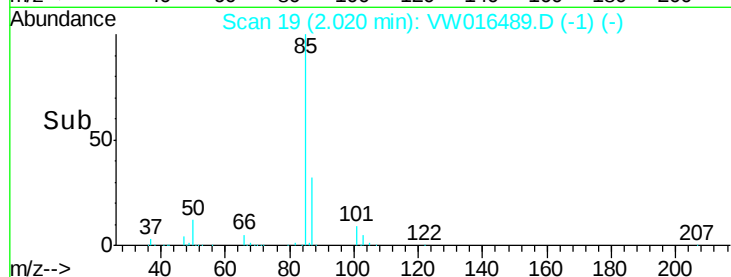
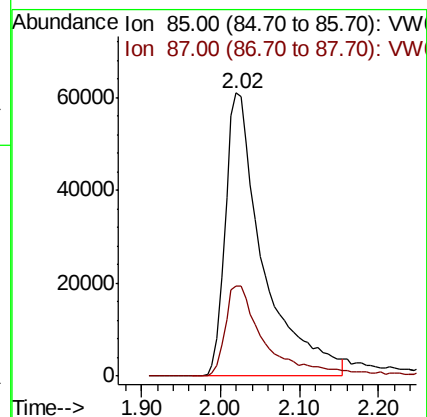
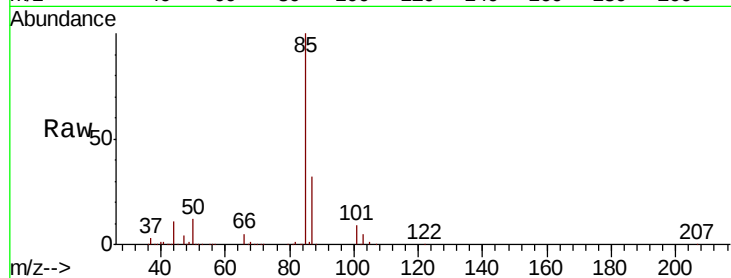
ClientSampleId :

Tot Ion: 85 Resp: 203582

Ion Ratio Lower Upper

85 100

87 29.6 22.3 41.5



#3

Chloromethane

Concen: 23.026 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.00 min

Lab File: VW016489.D

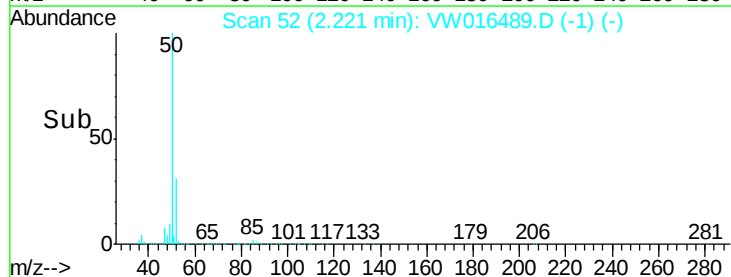
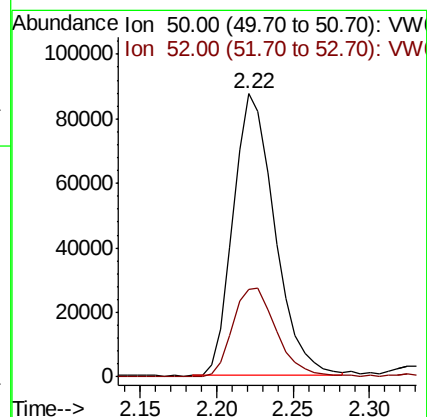
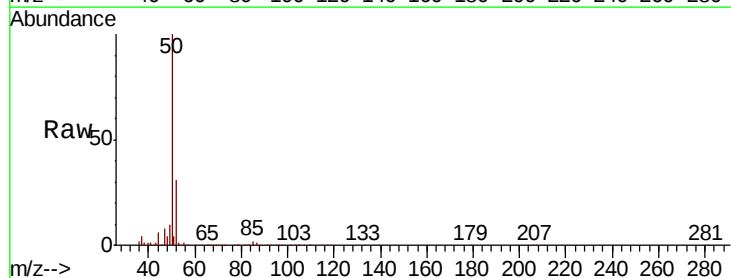
Acq: 08 Sep 2020 09:21

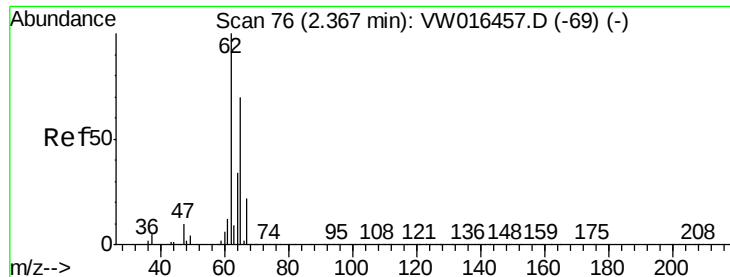
Tgt Ion: 50 Resp: 165158

Ion Ratio Lower Upper

50 100

52 31.1 23.0 42.6





#5

Vinyl chloride

Concen: 25.443 ug/L

RT: 2.37 min Scan# 77

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

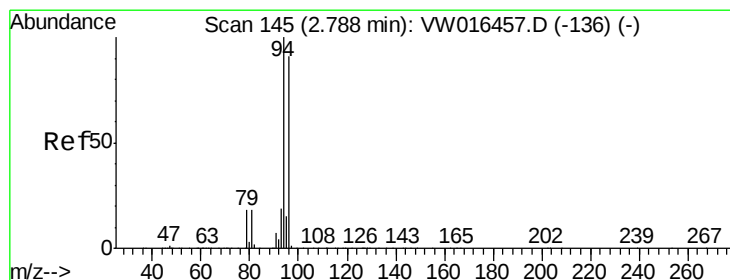
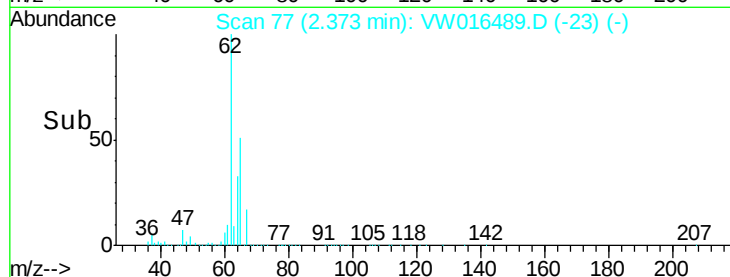
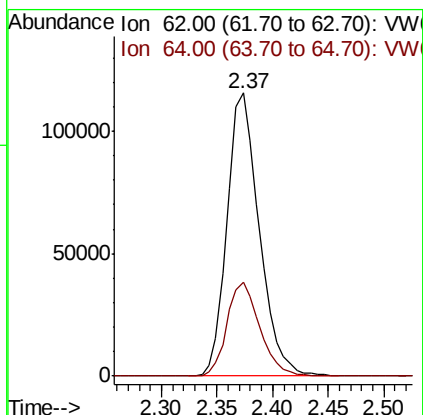
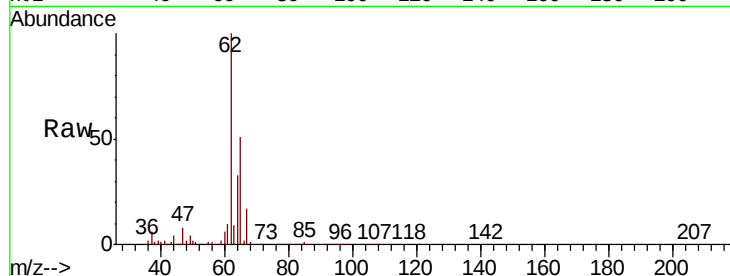
ClientSampleId :

Tot Ion: 62 Resp: 232439

Ion Ratio Lower Upper

62 100

64 33.1 23.9 44.5



#6

Bromomethane

Concen: 28.814 ug/L

RT: 2.79 min Scan# 145

Delta R.T. -0.01 min

Lab File: VW016489.D

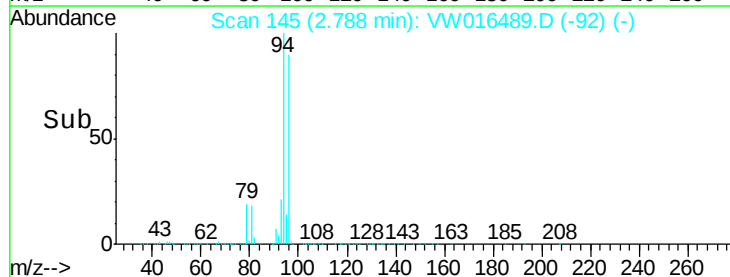
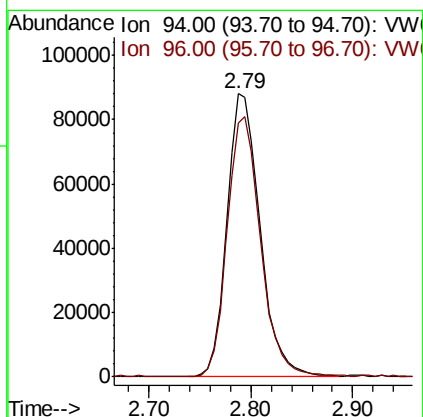
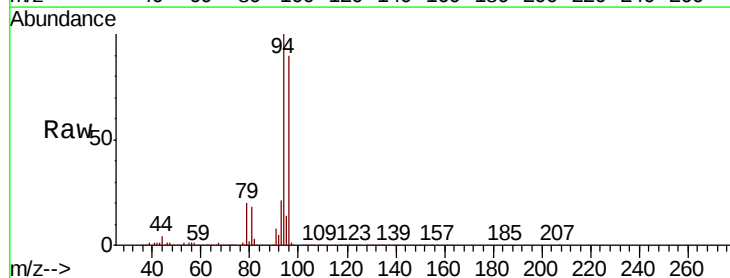
Acq: 08 Sep 2020 09:21

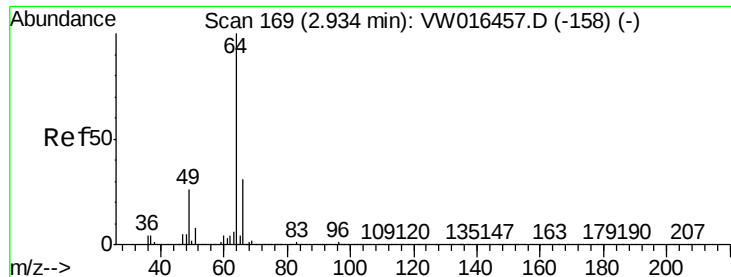
Tgt Ion: 94 Resp: 196746

Ion Ratio Lower Upper

94 100

96 92.5 9.4 178.2

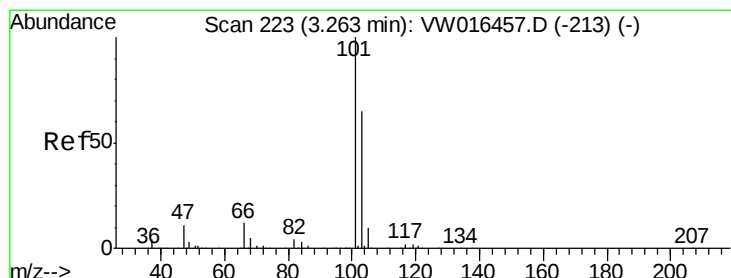
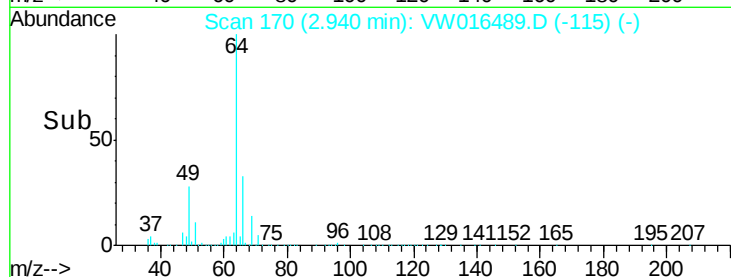
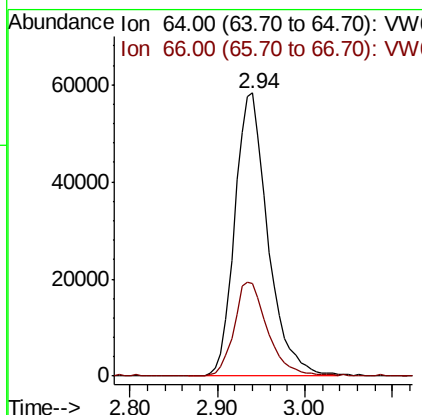
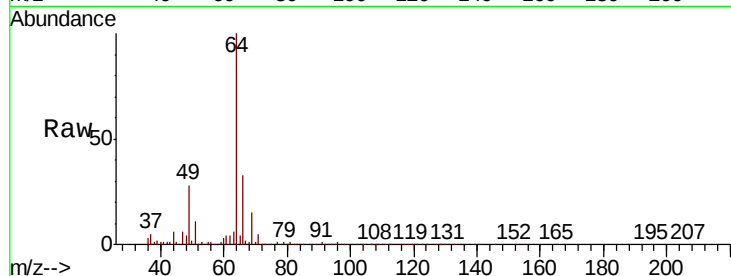




#8  
Chloroethane  
Concen: 27.364 ug/L  
RT: 2.94 min Scan# 170  
Delta R.T. 0.01 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

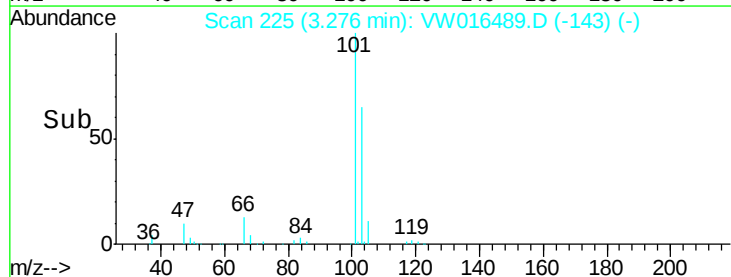
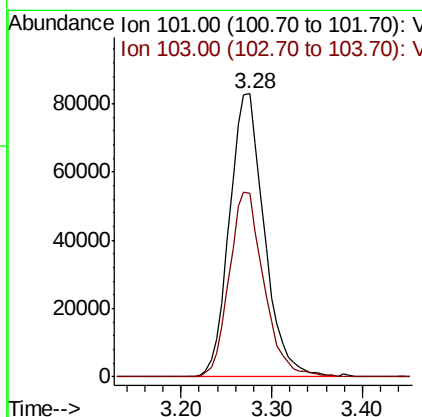
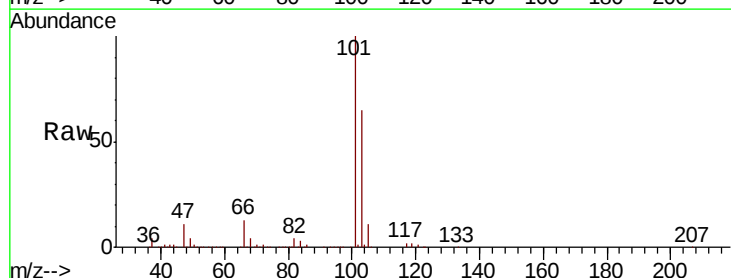
Instrument :  
MSVOA\_W  
ClientSampleId :

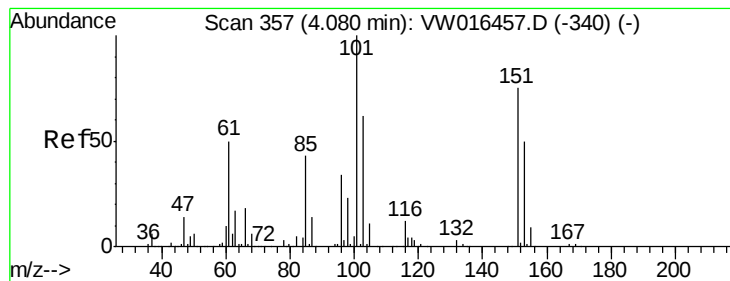
Tot Ion: 64 Resp: 153787  
Ion Ratio Lower Upper  
64 100  
66 32.8 22.4 41.6



#9  
Trichlorofluoromethane  
Concen: 29.529 ug/L  
RT: 3.28 min Scan# 225  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 101 Resp: 220932  
Ion Ratio Lower Upper  
101 100  
103 64.8 45.1 83.7





#11

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

Concen: 26.432 ug/L

RT: 4.07 min Scan# 356

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

ClientSampleId :

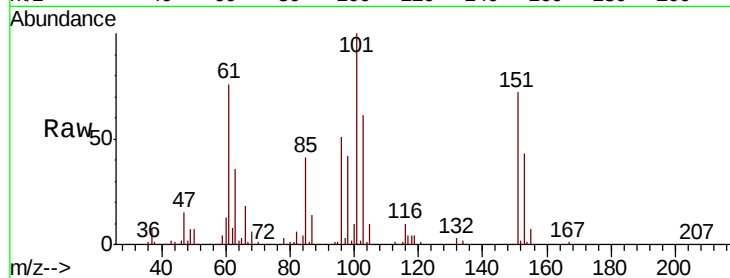
Tot Ion:101 Resp: 233905

Ion Ratio Lower Upper

101 100

85 43.5 33.4 50.0

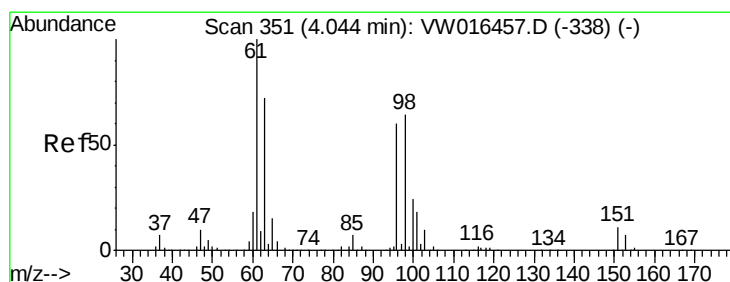
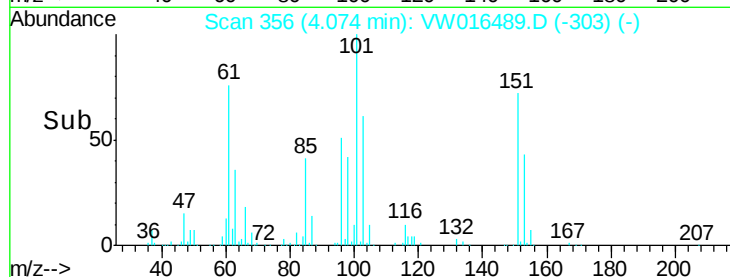
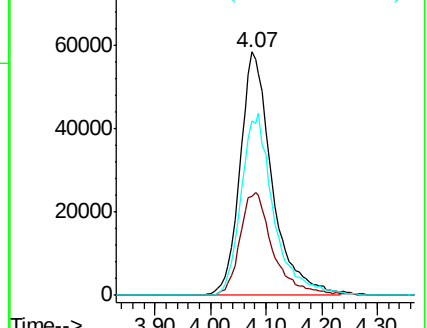
151 74.6 61.6 92.4



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: 25.727 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

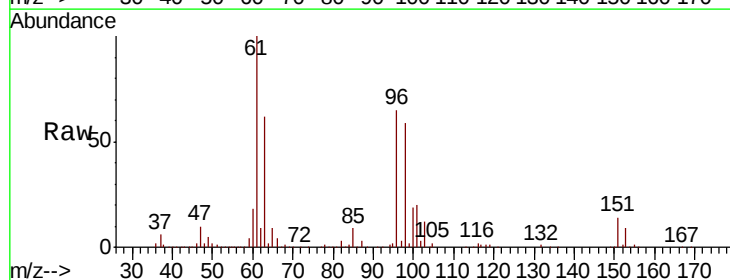
Tgt Ion: 96 Resp: 231493

Ion Ratio Lower Upper

96 100

61 154.6 116.5 216.3

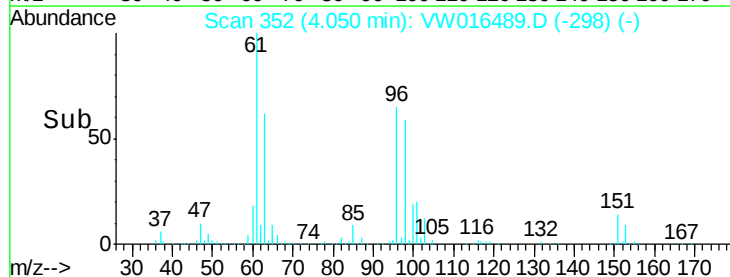
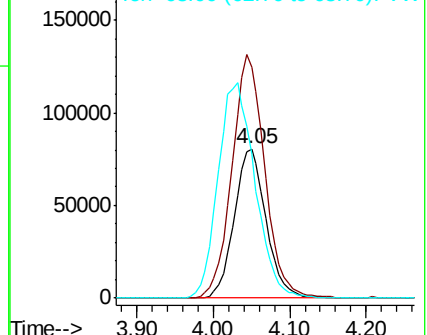
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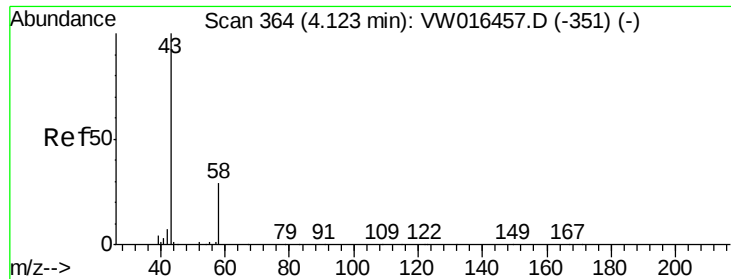


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 36.932 ug/L

RT: 4.14 min Scan# 367

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

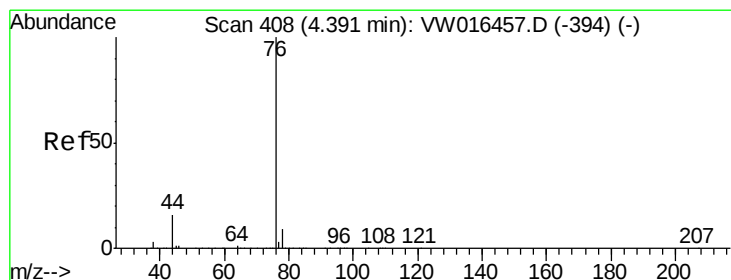
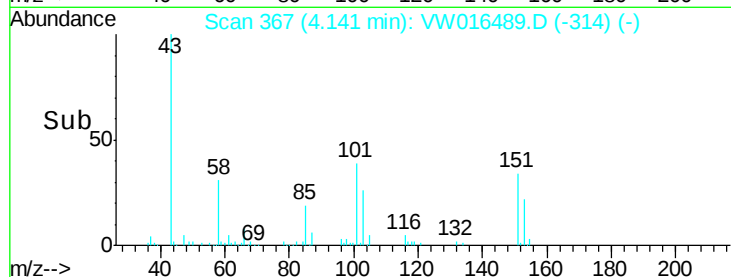
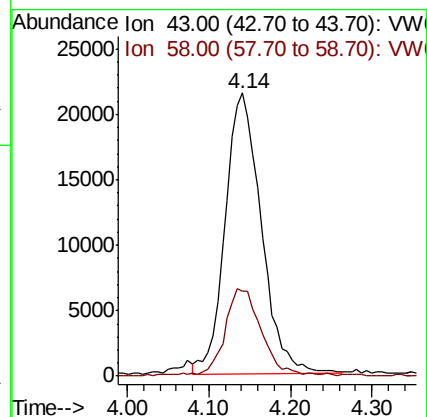
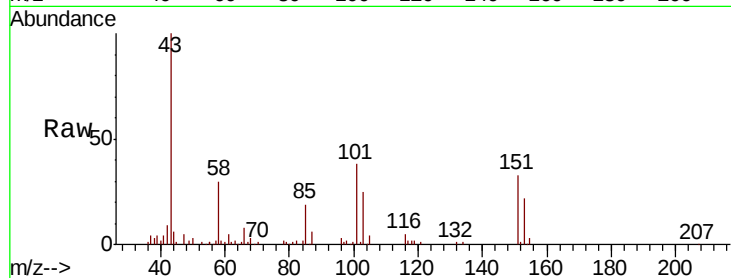
ClientSampled :

Tot Ion: 43 Resp: 65585

Ion Ratio Lower Upper

43 100

58 30.2 0.0 63.0



#14

Carbon disulfide

Concen: 25.452 ug/L

RT: 4.39 min Scan# 408

Delta R.T. -0.00 min

Lab File: VW016489.D

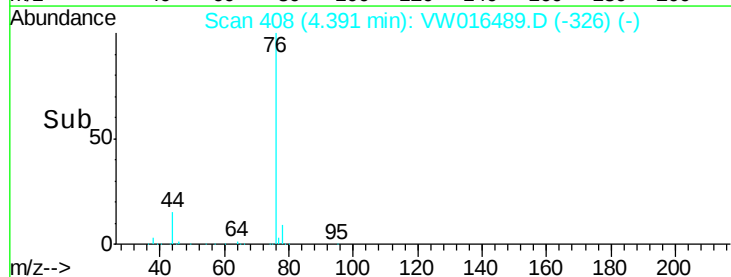
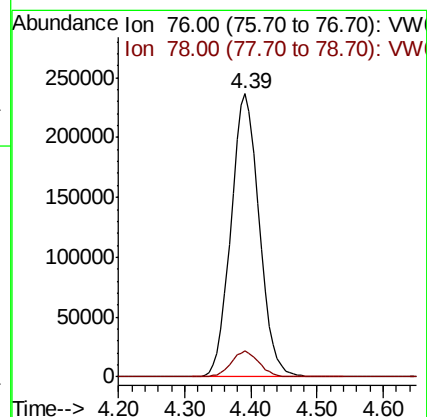
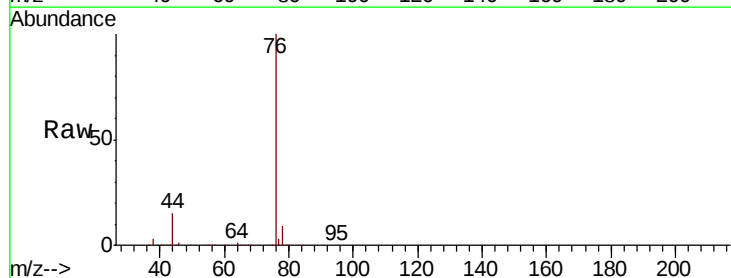
Acq: 08 Sep 2020 09:21

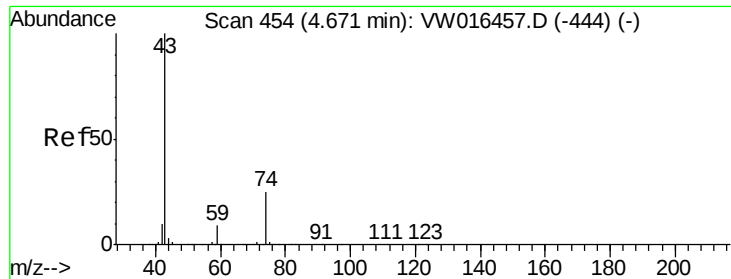
Tgt Ion: 76 Resp: 699895

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

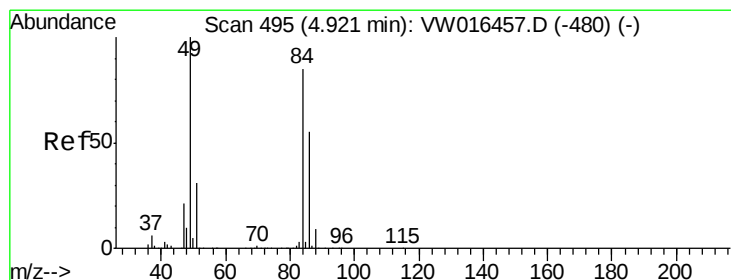
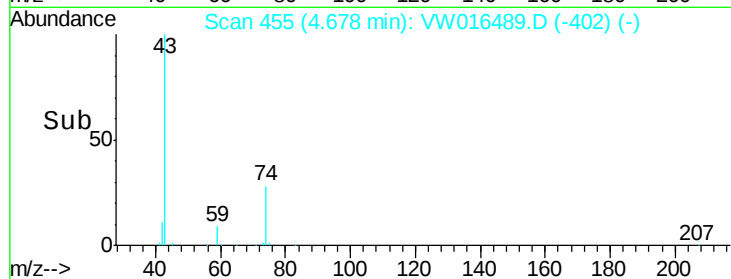
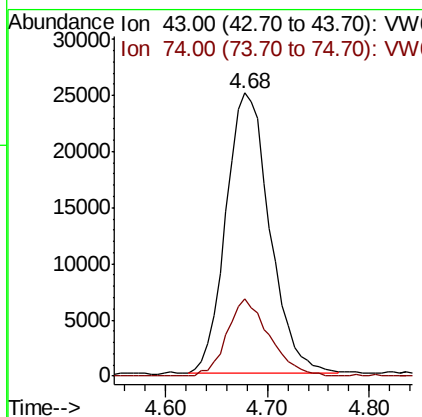
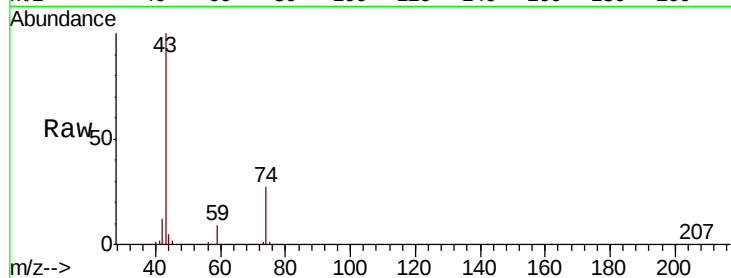




#15  
Methvl Acetate  
Concen: 17.290 ug/L  
RT: 4.68 min Scan# 455  
Delta R.T. -0.01 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

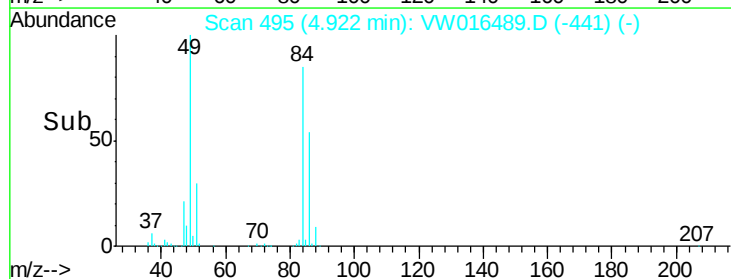
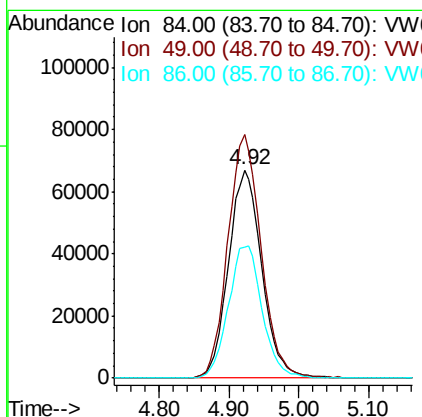
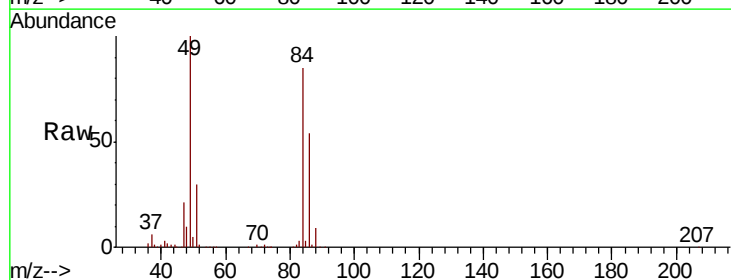
Instrument :  
MSVOA\_W  
ClientSampleId :

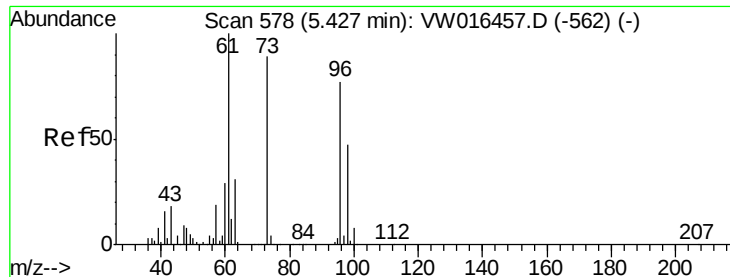
Tot Ion: 43 Resp: 74465  
Ion Ratio Lower Upper  
43 100  
74 26.4 18.9 28.3



#16  
Methylene chloride  
Concen: 19.479 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 84 Resp: 221985  
Ion Ratio Lower Upper  
84 100  
49 117.1 86.7 160.9  
86 63.2 44.9 83.5

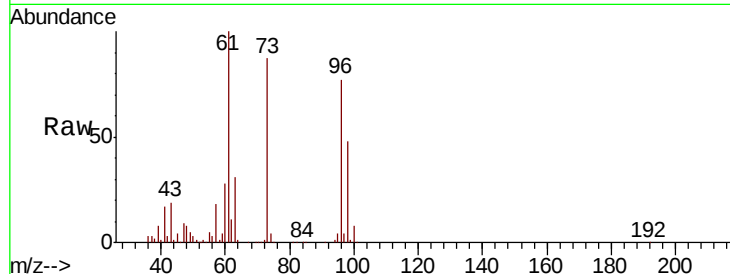




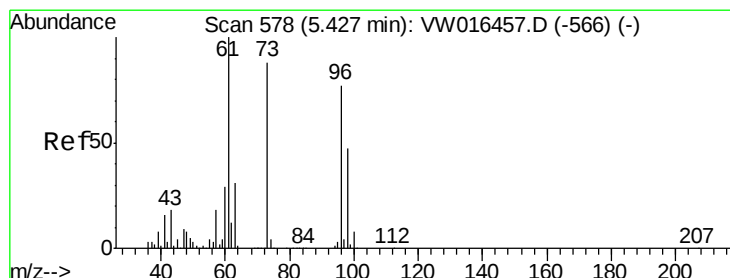
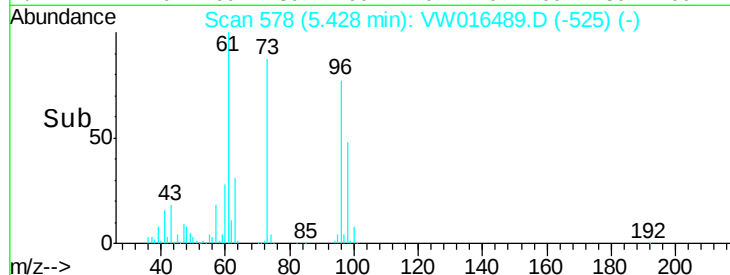
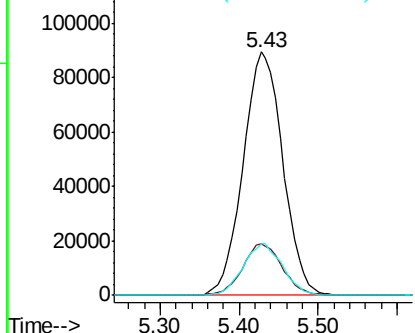
#17  
Methvl tert-butvl Ether  
Concen: 23.161 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 73 Resp: 312643  
Ion Ratio Lower Upper  
73 100  
43 20.7 17.9 26.9  
57 21.0 17.4 26.0

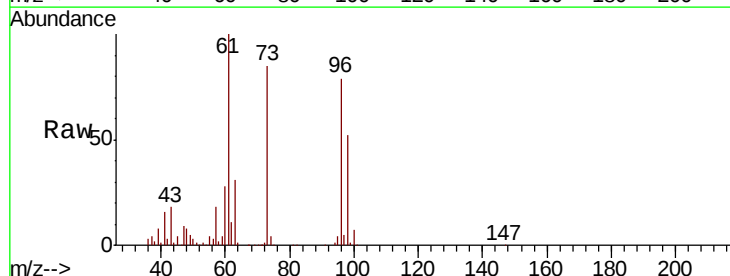


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

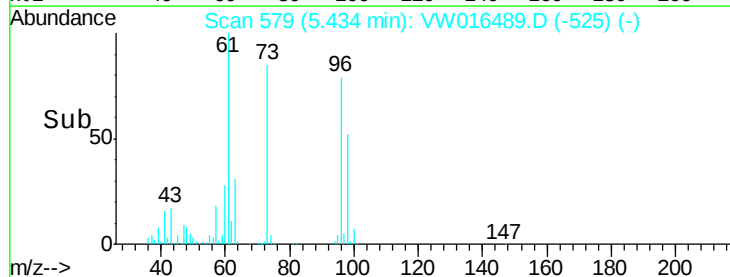
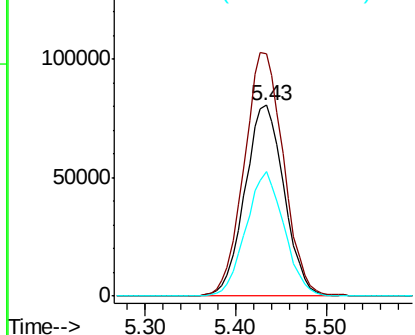


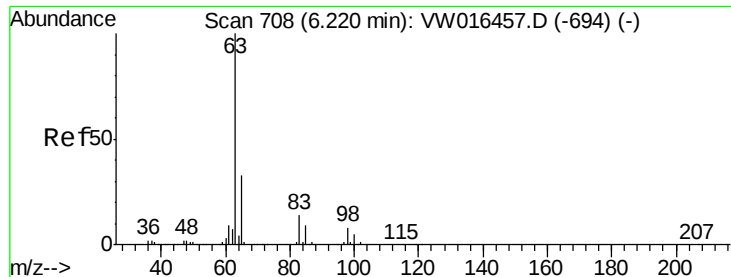
#18  
trans-1,2-Dichloroethene  
Concen: 25.275 ug/L  
RT: 5.43 min Scan# 579  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 96 Resp: 241573  
Ion Ratio Lower Upper  
96 100  
61 127.2 96.4 179.0  
98 65.5 45.1 83.7



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

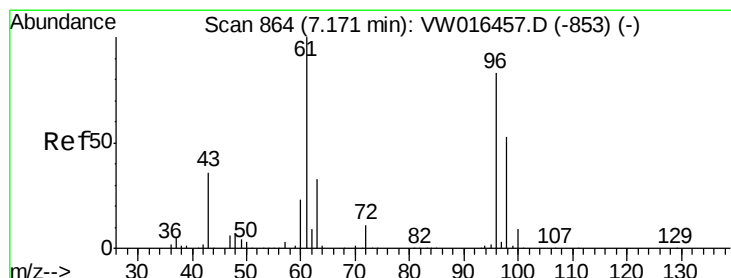
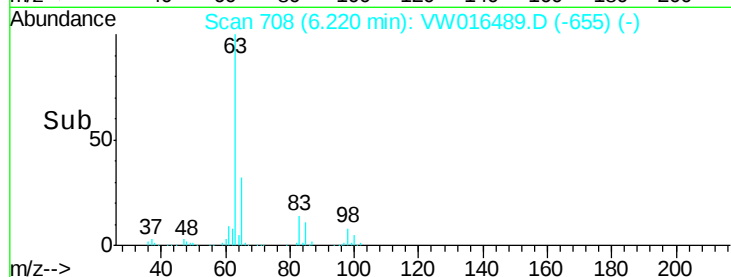
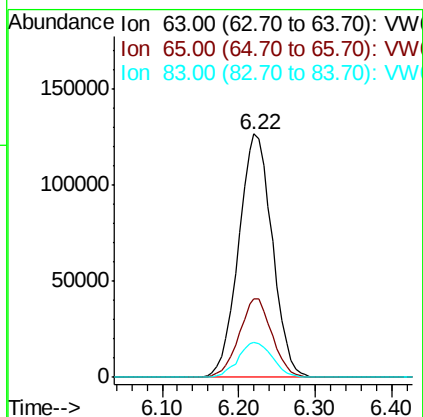
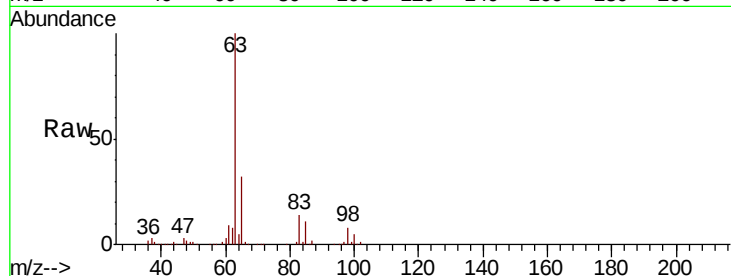




#19  
 1,1-Dichloroethane  
 Concen: 23.759 ug/L  
 RT: 6.22 min Scan# 708  
 Delta R.T. -0.01 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

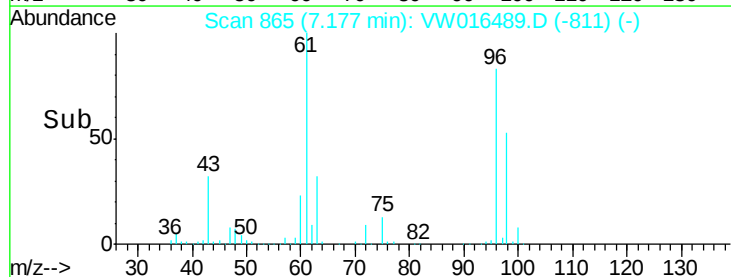
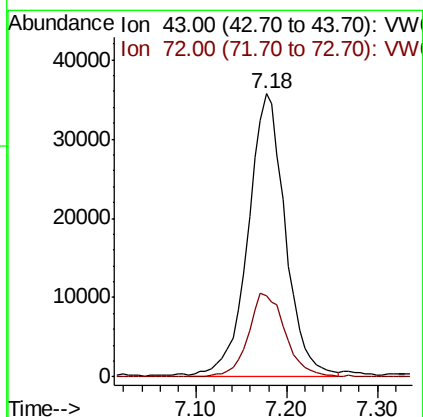
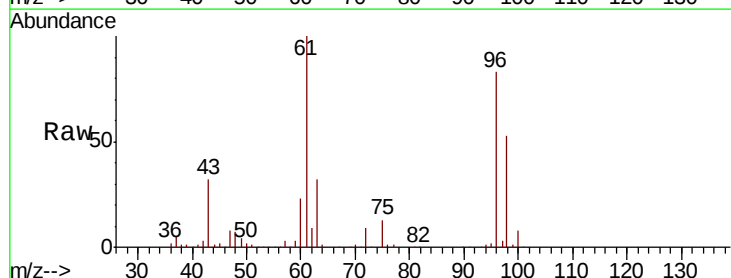
Instrument :  
 MSVOA\_W  
 ClientSampleId :

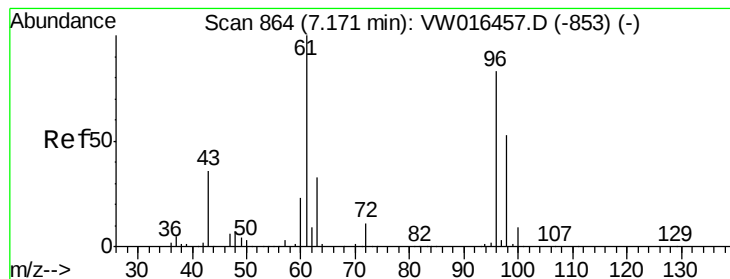
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.2  | 23.3  | 43.3  |
| 83      | 14.4  | 10.3  | 19.1  |



#21  
 2-Butanone  
 Concen: 33.758 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 29.7  | 13.5  | 40.4  |



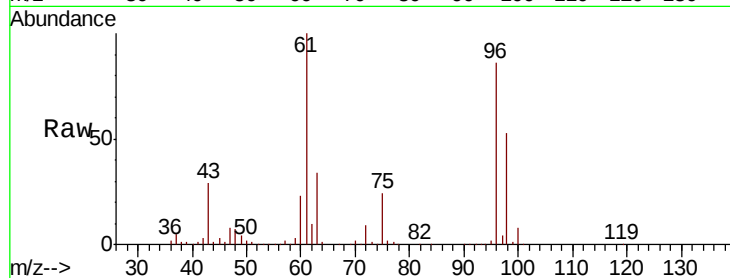


#22

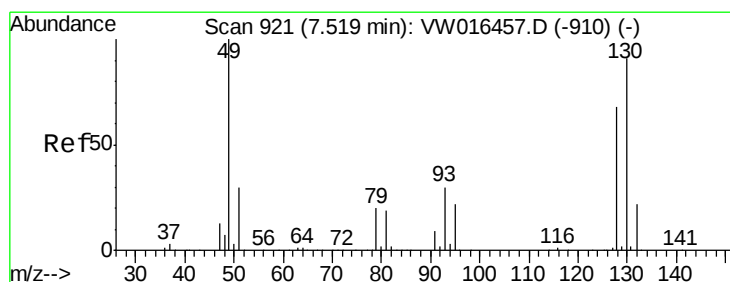
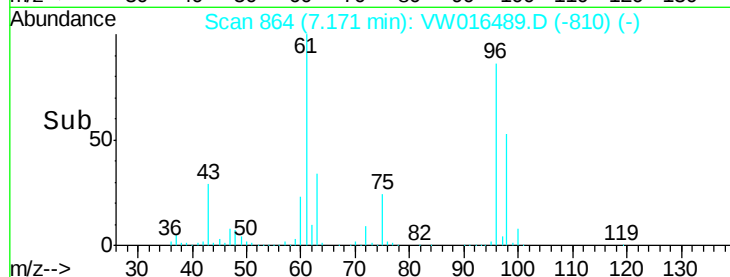
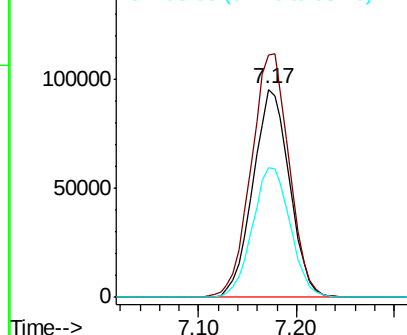
cis-1,2-Dichloroethene  
Concen: 24.893 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 96 Resp: 247864  
Ion Ratio Lower Upper  
96 100  
61 116.3 86.1 159.9  
98 62.1 44.1 81.9



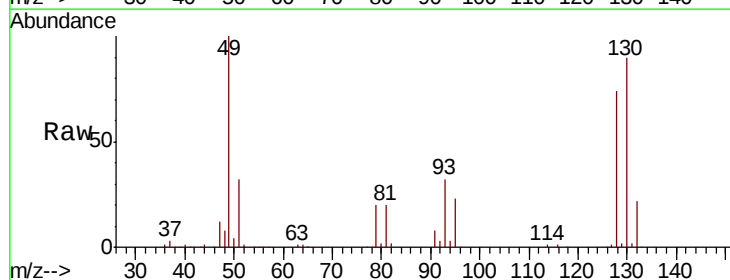
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



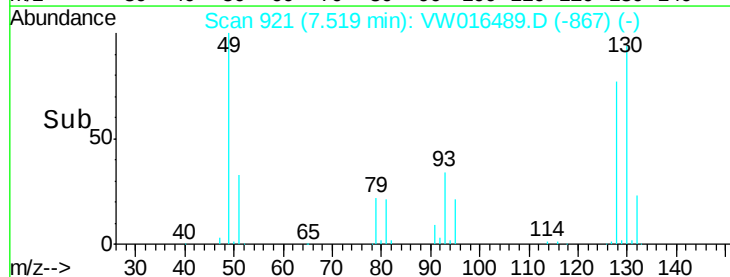
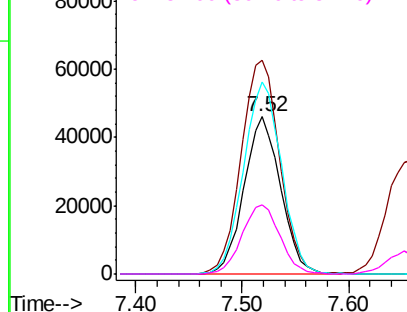
#23

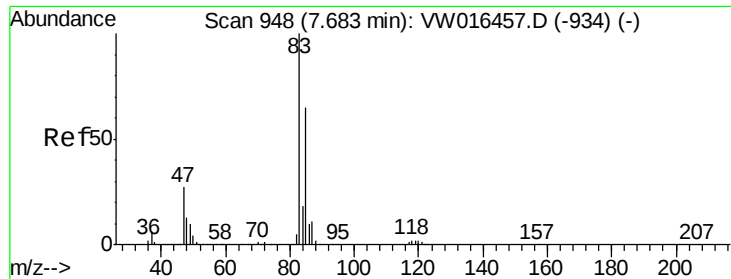
Bromochloromethane  
Concen: 24.162 ug/L  
RT: 7.52 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 128 Resp: 111519  
Ion Ratio Lower Upper  
128 100  
49 135.9 111.6 207.4  
130 121.9 90.9 168.7  
51 43.9 38.5 57.7



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VW  
Ion 130.00 (129.70 to 130.70): V  
Ion 51.00 (50.70 to 51.70): VW

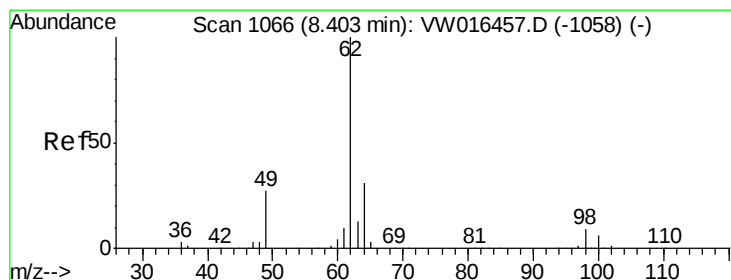
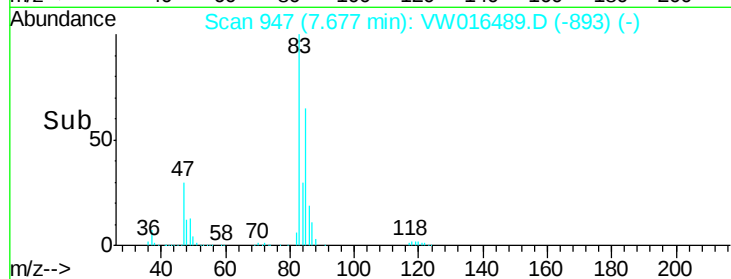
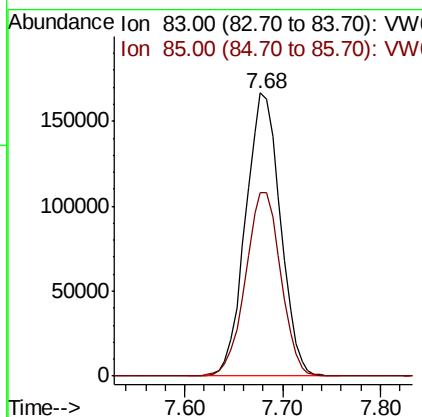
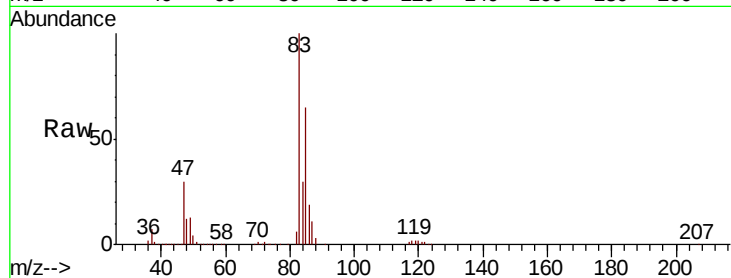




#25  
Chloroform  
Concen: 24.458 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

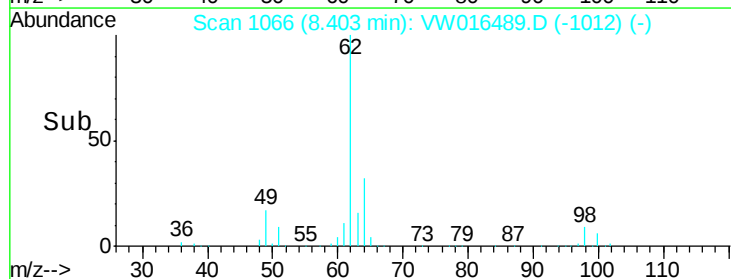
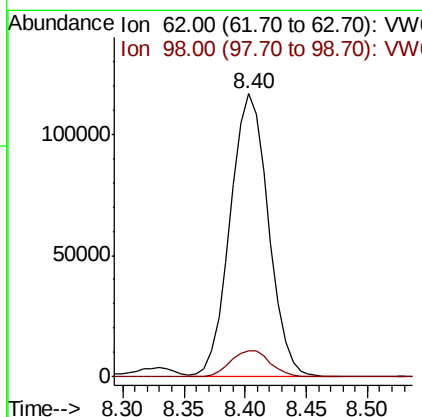
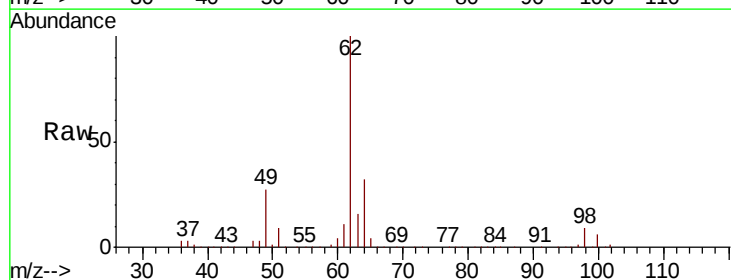
Instrument :  
MSVOA\_W  
ClientSampleId :

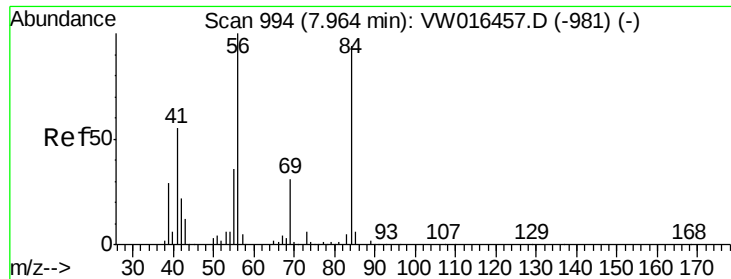
Tot Ion: 83 Resp: 411804  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.6 84.8



#27  
1,2-Dichloroethane  
Concen: 22.545 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 62 Resp: 252773  
Ion Ratio Lower Upper  
62 100  
98 9.3 7.3 10.9

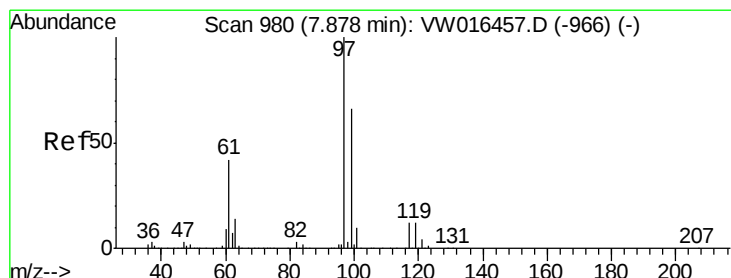
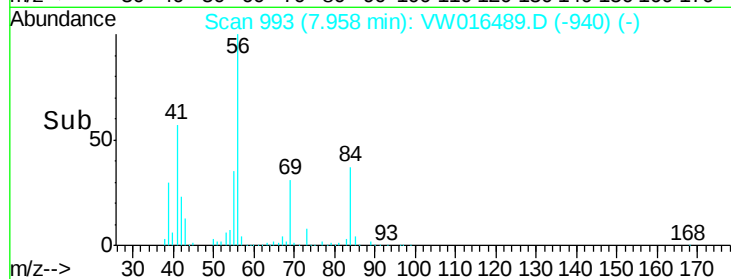
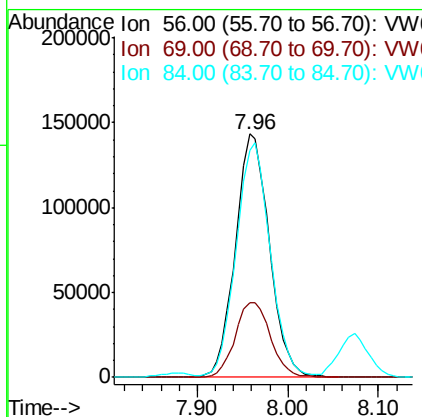
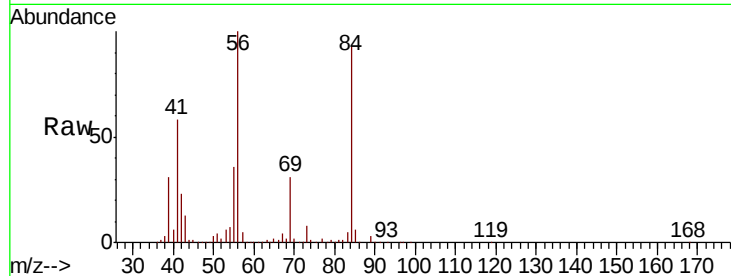




#30  
Cyclohexane  
Concen: 24.024 ug/L  
RT: 7.96 min Scan# 993  
Delta R.T. -0.01 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

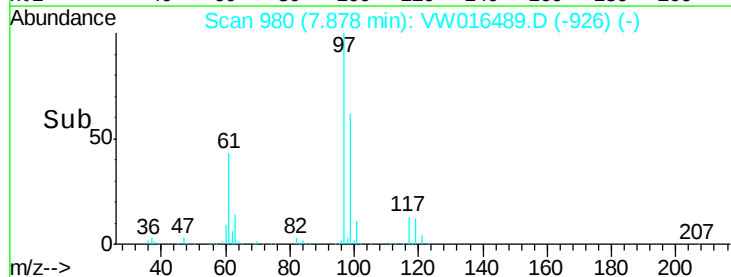
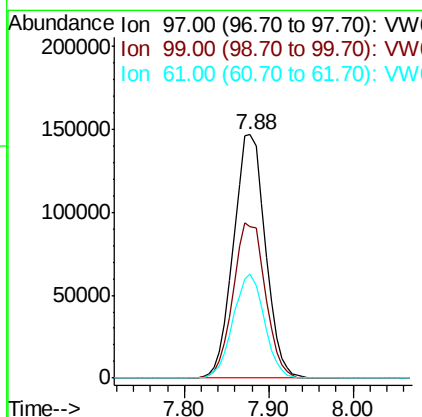
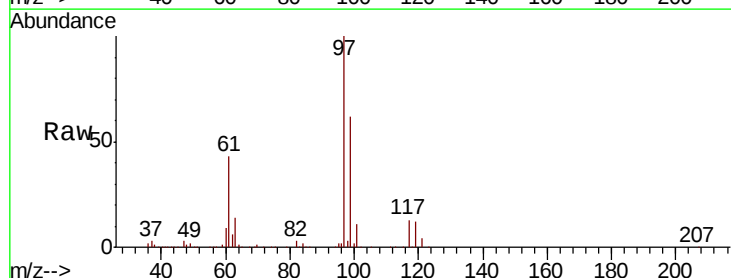
Instrument :  
MSVOA\_W  
ClientSampled :

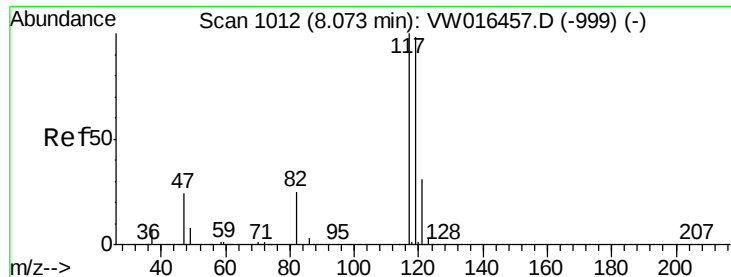
Tot Ion: 56 Resp: 372999  
Ion Ratio Lower Upper  
56 100  
69 31.9 25.3 37.9  
84 96.5 71.6 107.4



#31  
1,1,1-Trichloroethane  
Concen: 26.669 ug/L  
RT: 7.88 min Scan# 980  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 97 Resp: 375348  
Ion Ratio Lower Upper  
97 100  
99 64.9 52.2 78.2  
61 41.9 36.3 54.5





#32

Carbon tetrachloride

Concen: 26.998 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

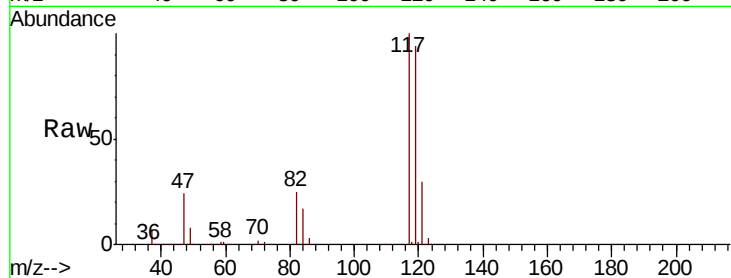
ClientSampled :

Tot Ion:117 Resp: 363444

Ion Ratio Lower Upper

117 100

119 96.4 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

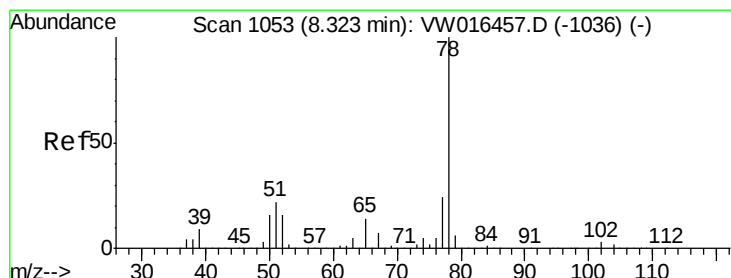
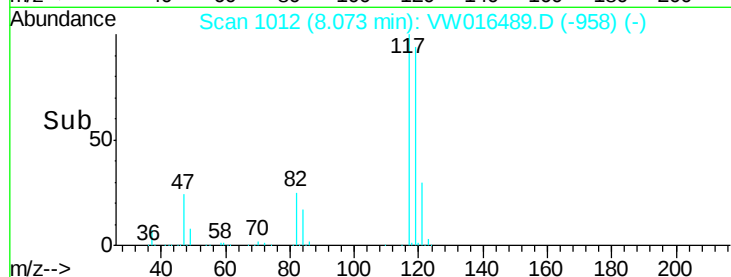
100000

50000

0

8.07

Time-->



#34

Benzene

Concen: 24.907 ug/L

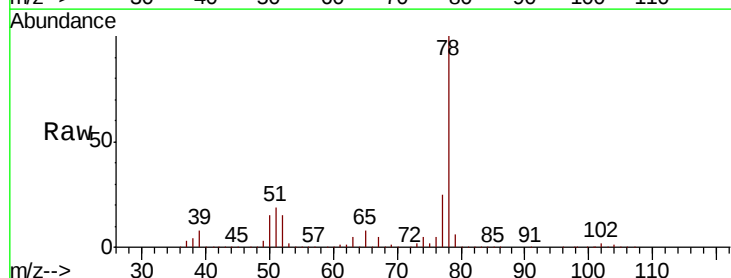
RT: 8.33 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Tgt Ion: 78 Resp: 885147



Abundance Ion 78.00 (77.70 to 78.70): VW

400000

300000

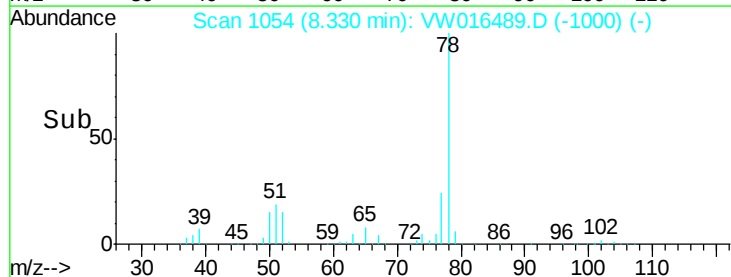
200000

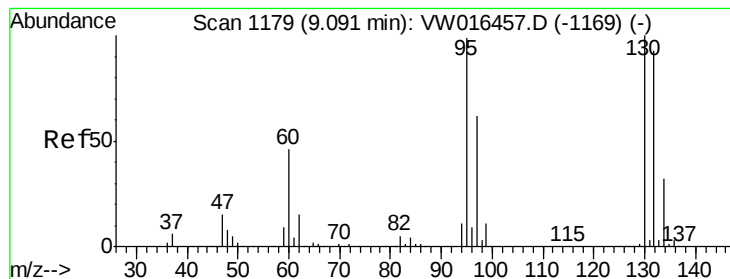
100000

0

8.33

Time-->





#35

Trichloroethene

Concen: 25.564 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 95 Resp: 251732

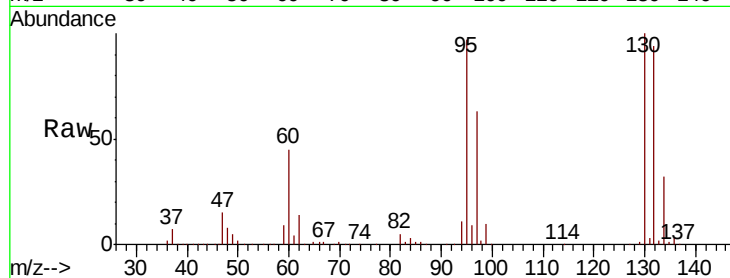
Ion Ratio Lower Upper

95 100

97 65.0 44.9 83.5

132 99.2 69.2 128.4

130 105.5 72.0 133.6



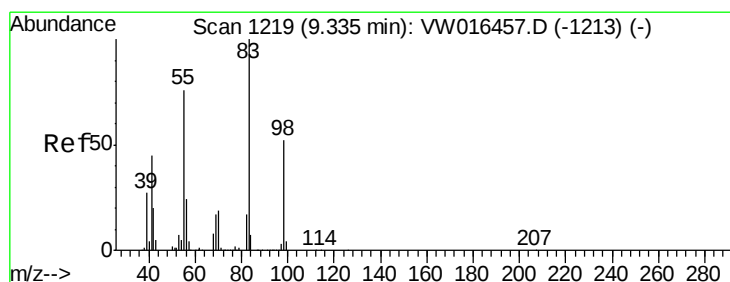
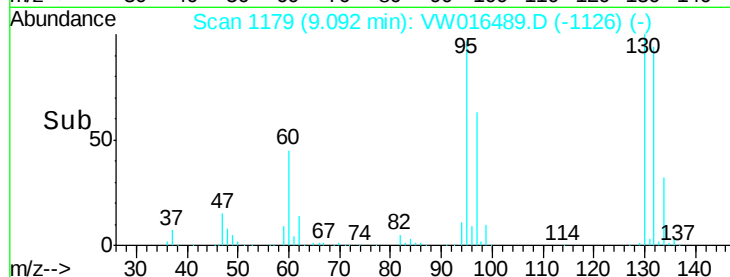
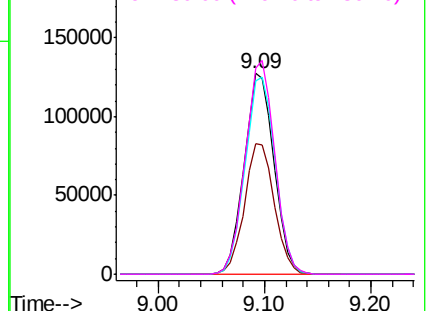
Abundance

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: 25.574 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

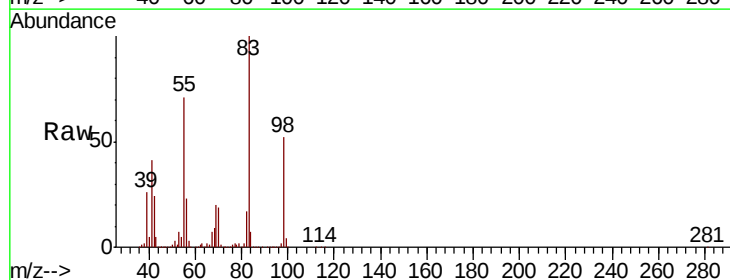
Tgt Ion: 83 Resp: 440608

Ion Ratio Lower Upper

83 100

55 70.7 60.9 91.3

98 51.6 40.0 60.0

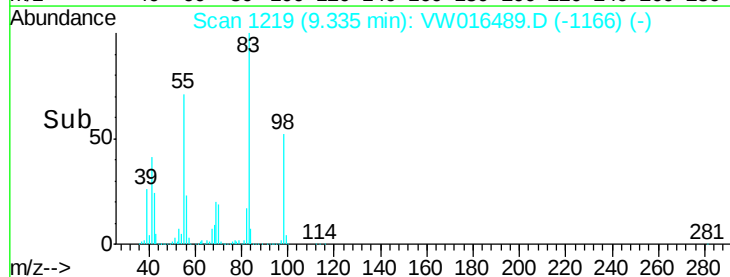
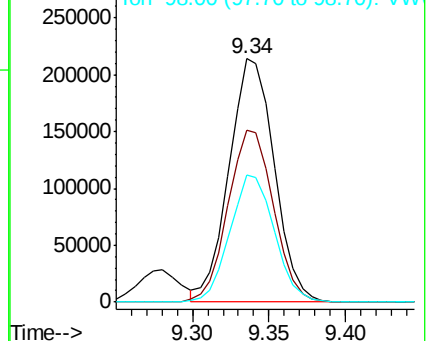


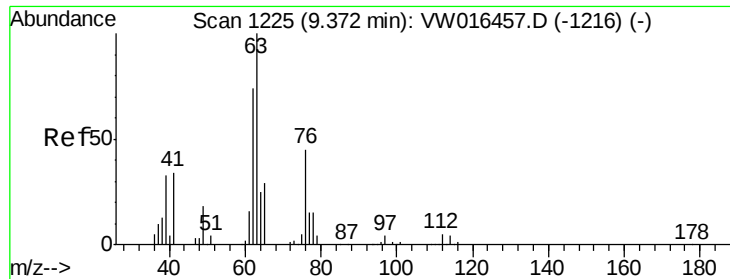
Abundance

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

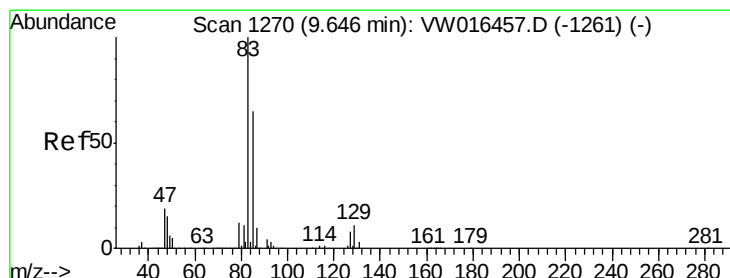
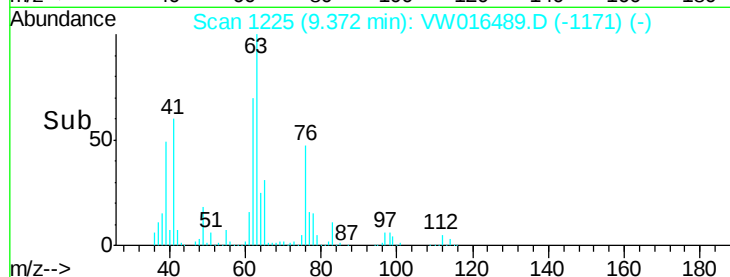
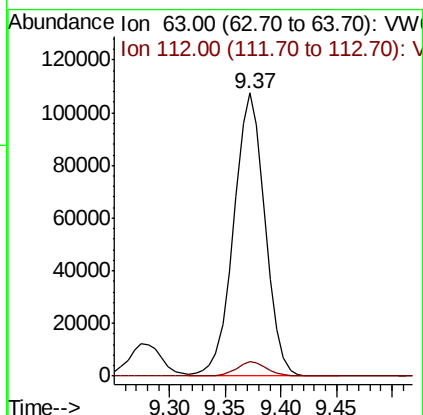
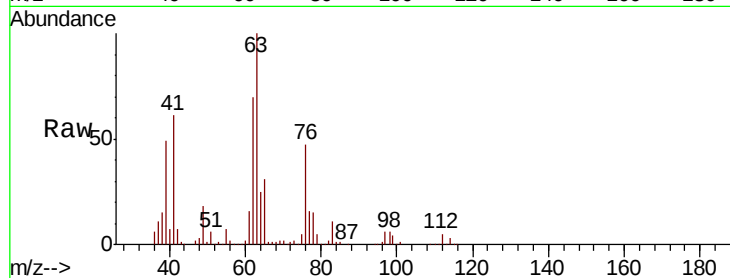




#40  
 1,2-Dichloropropane  
 Concen: 23.786 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

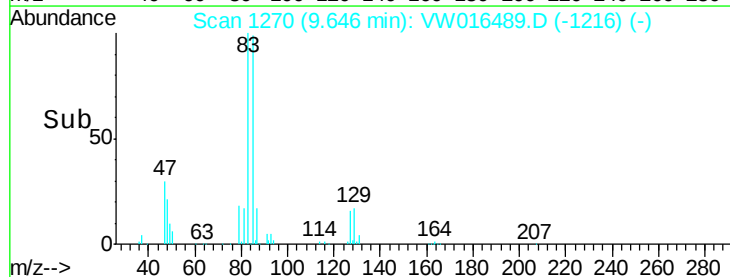
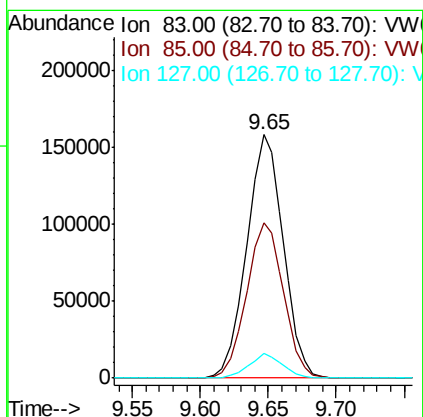
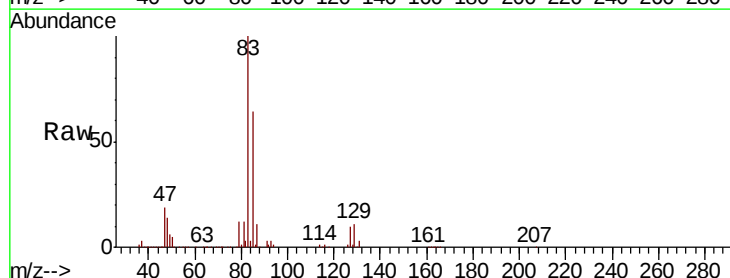
Instrument :  
 MSVOA\_W  
 ClientSampleId :

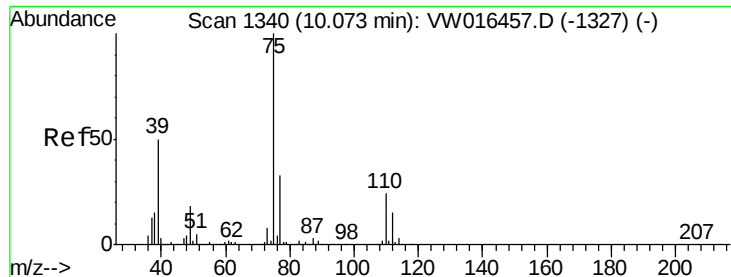
Tot Ion: 63 Resp: 209004  
 Ion Ratio Lower Upper  
 63 100  
 112 5.1 3.8 5.8



#41  
 Bromodichloromethane  
 Concen: 24.217 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

Tgt Ion: 83 Resp: 297488  
 Ion Ratio Lower Upper  
 83 100  
 85 63.7 43.5 80.7  
 127 10.0 6.7 10.1





#42

cis-1,3-Dichloropropene

Concen: 23.967 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

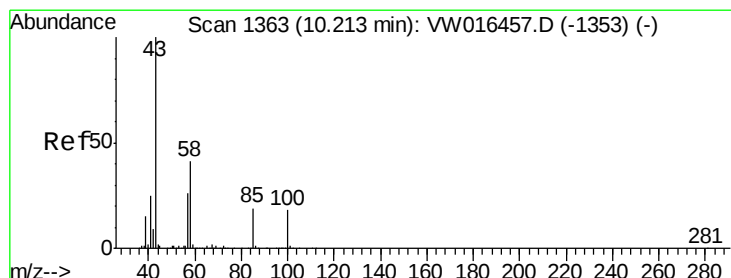
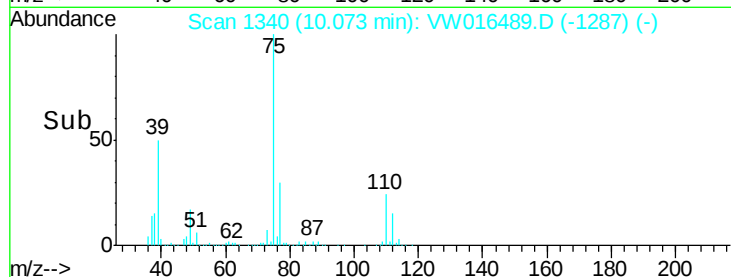
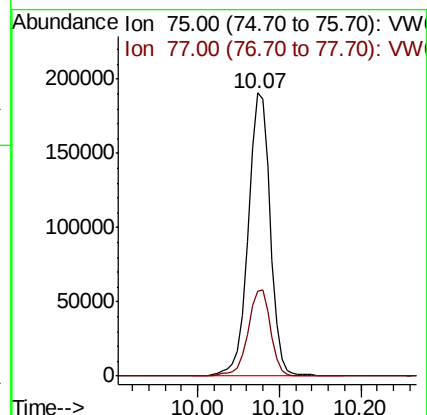
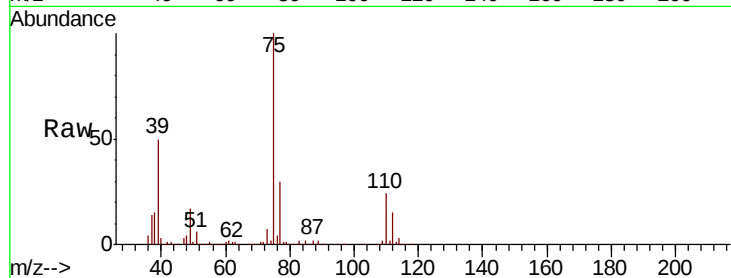
ClientSampled :

Tot Ion: 75 Resp: 357375

Ion Ratio Lower Upper

75 100

77 30.1 20.9 38.7



#43

4-Methyl-2-pentanone

Concen: 36.342 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

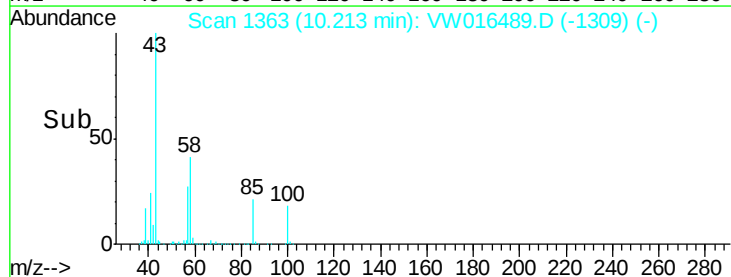
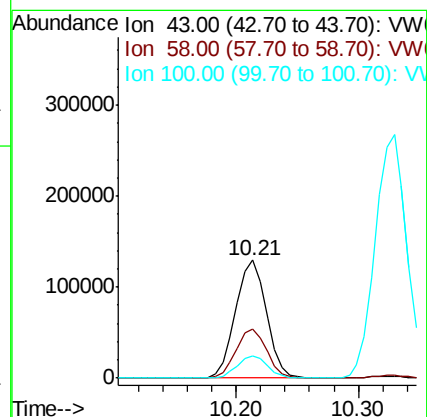
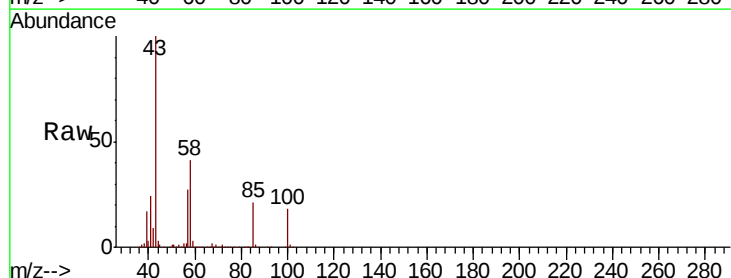
Tgt Ion: 43 Resp: 226116

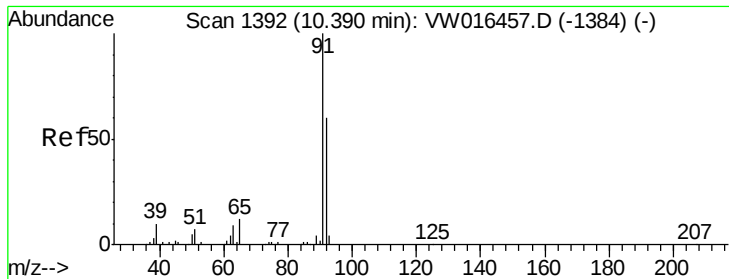
Ion Ratio Lower Upper

43 100

58 41.0 30.6 45.8

100 18.8 13.0 19.6





#44

Toluene

Concen: 25.536 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

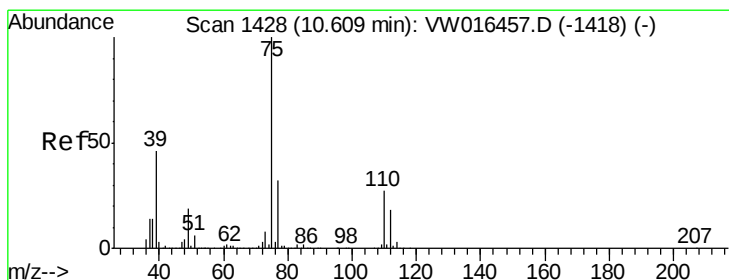
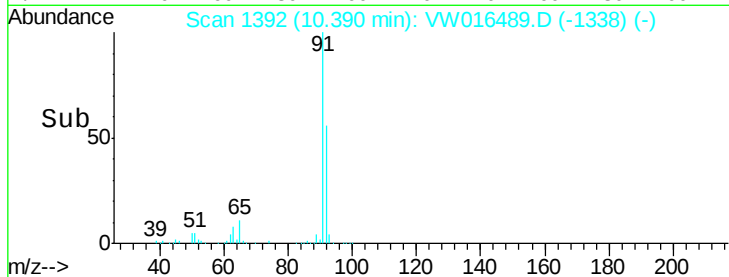
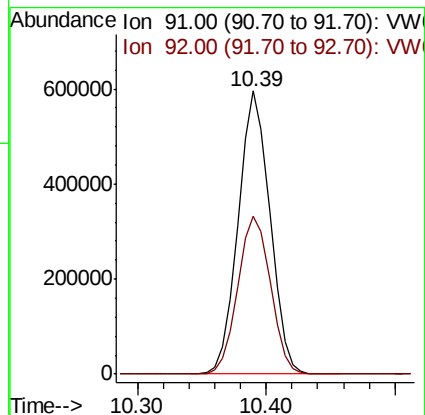
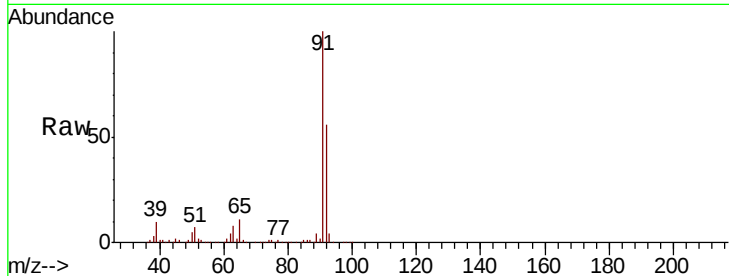
ClientSampleId :

Tot Ion: 91 Resp: 1015472

Ion Ratio Lower Upper

91 100

92 55.9 39.5 73.4



#45

trans-1,3-Dichloropropene

Concen: 23.301 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016489.D

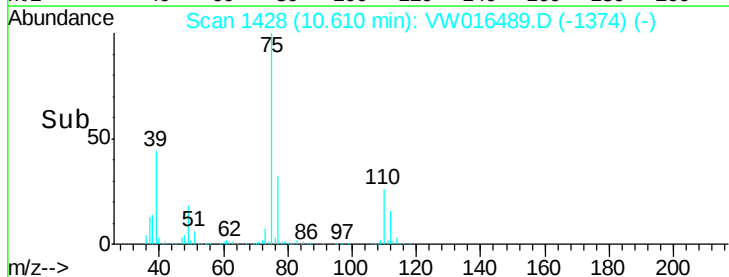
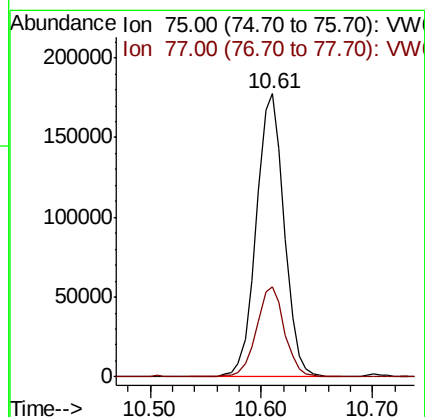
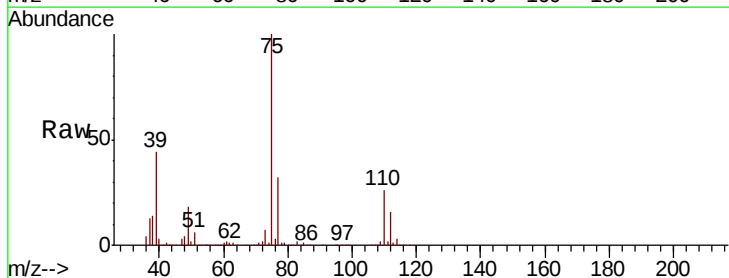
Acq: 08 Sep 2020 09:21

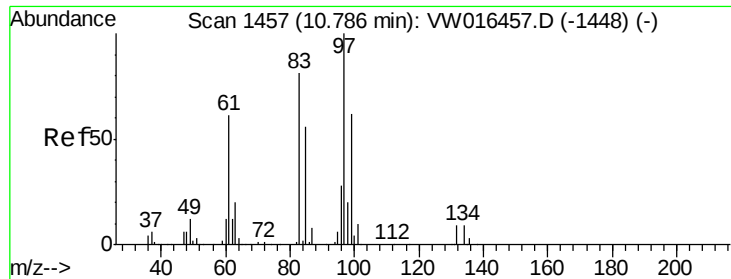
Tgt Ion: 75 Resp: 310553

Ion Ratio Lower Upper

75 100

77 31.9 21.9 40.7

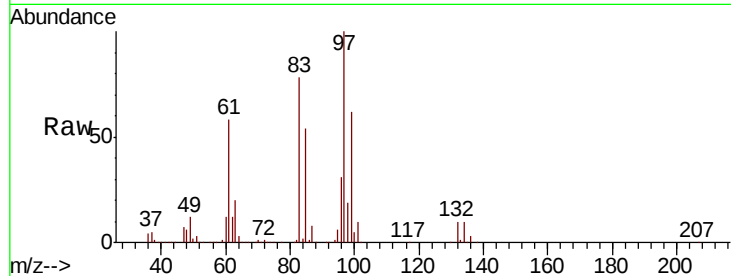




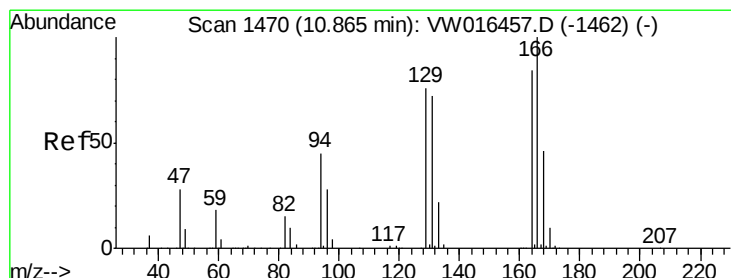
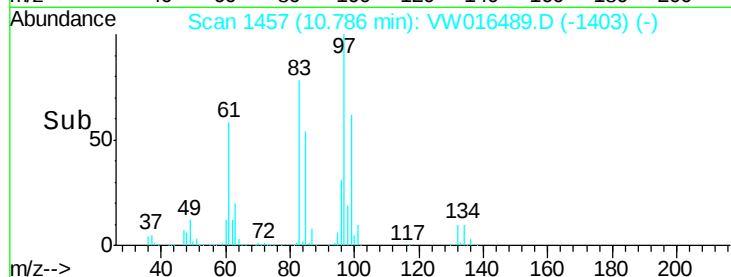
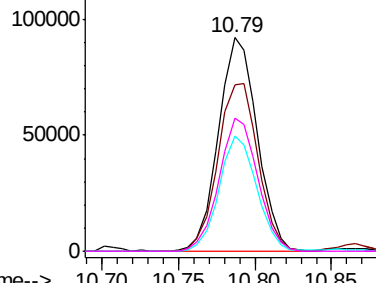
#46  
 1,1,2-Trichloroethane  
 Concen: 23.363 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

Instrument :  
 MSVOA\_W  
 ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 162700 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 77.7  | 59.7  | 110.9  |
| 85       | 53.8  | 37.6  | 69.8   |
| 99       | 62.5  | 42.3  | 78.5   |

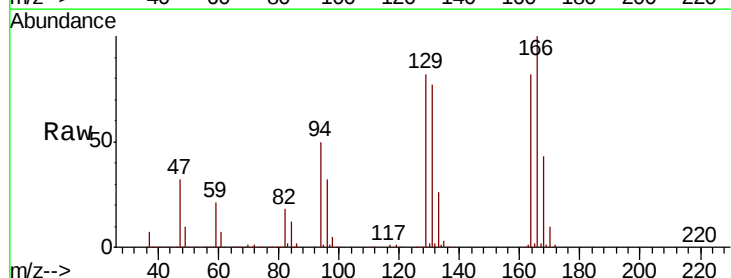


Abundance Ion 97.00 (96.70 to 97.70): VW  
 Ion 83.00 (82.70 to 83.70): VW  
 Ion 85.00 (84.70 to 85.70): VW  
 Ion 99.00 (98.70 to 99.70): VW

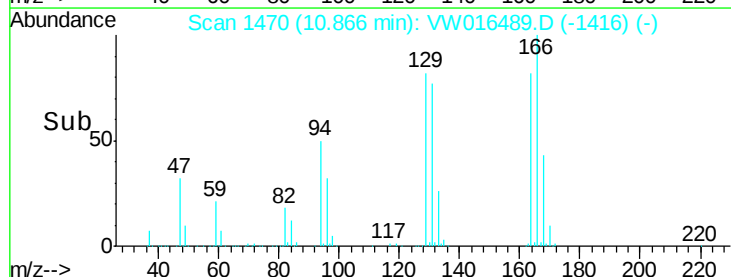
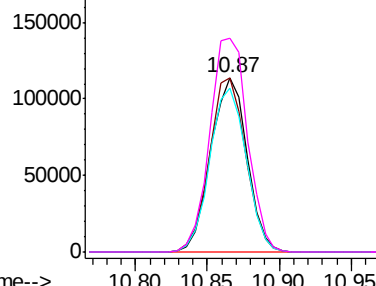


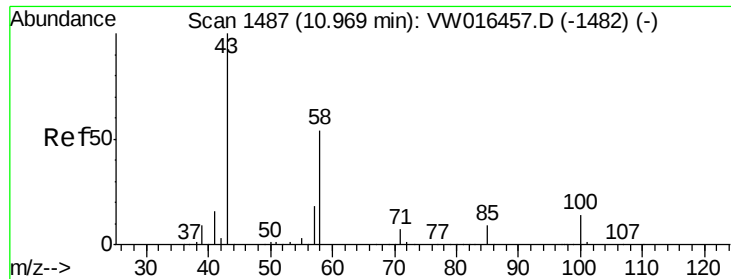
#47  
 Tetrachloroethene  
 Concen: 25.107 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 198229 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 100.3 | 65.7  | 121.9  |
| 131      | 94.2  | 61.1  | 113.5  |
| 166      | 122.6 | 85.0  | 157.8  |



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: 34.893 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 43 Resp: 151195

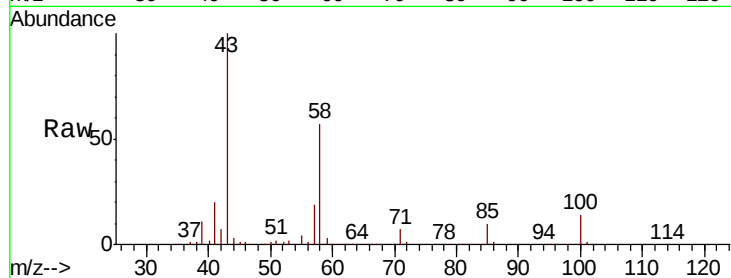
Ion Ratio Lower Upper

43 100

58 57.5 42.1 63.1

57 19.9 14.9 22.3

100 14.7 10.3 15.5

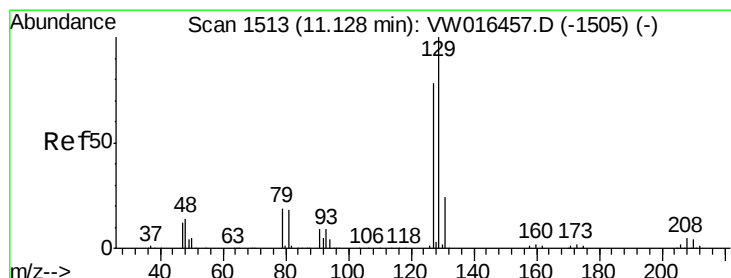
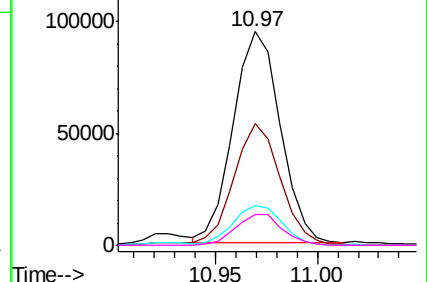
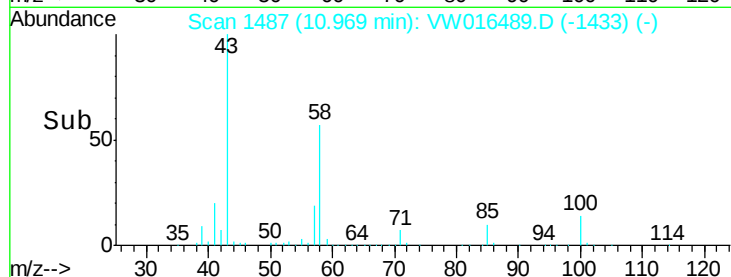


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 23.972 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VW016489.D

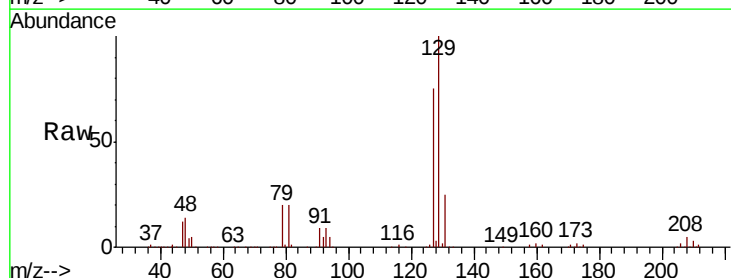
Acq: 08 Sep 2020 09:21

Tgt Ion: 129 Resp: 211093

Ion Ratio Lower Upper

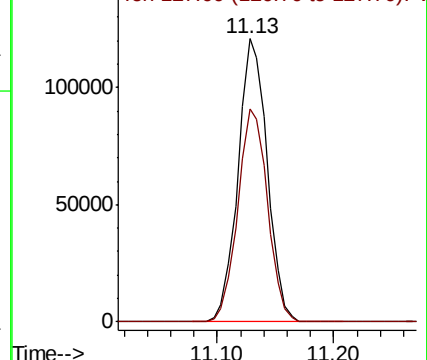
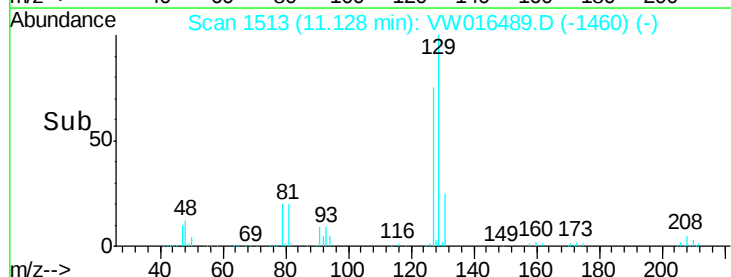
129 100

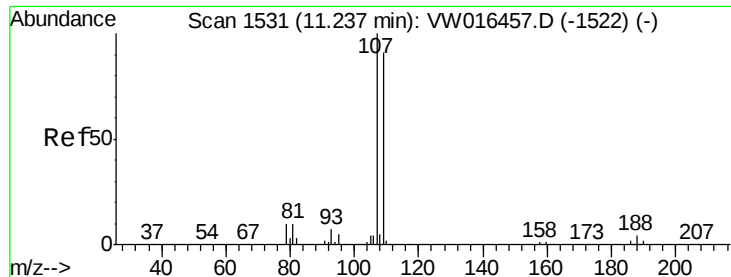
127 75.3 55.4 103.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

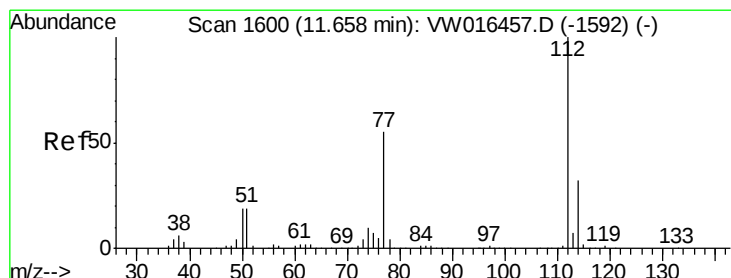
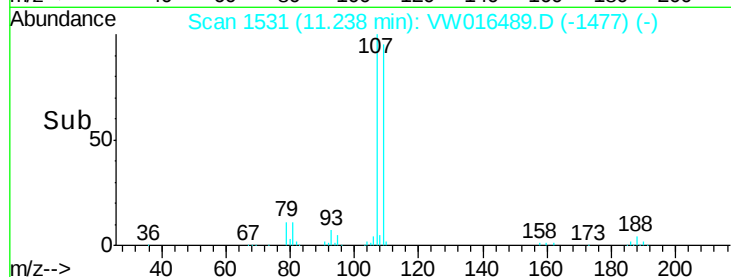
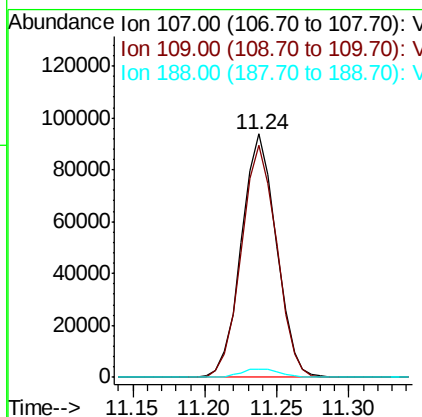
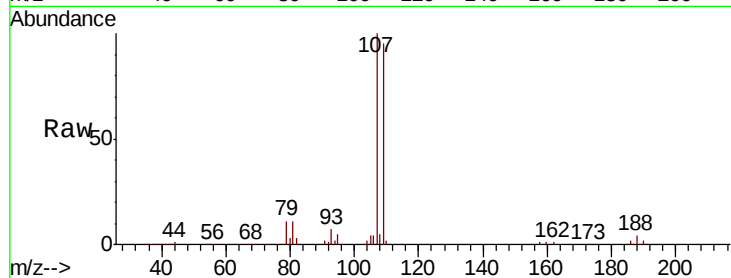




#51  
 1,2-Dibromoethane  
 Concen: 22.680 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

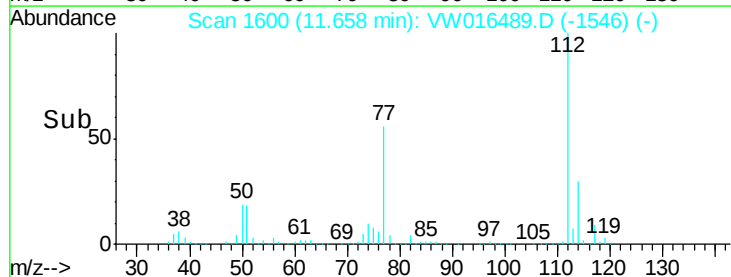
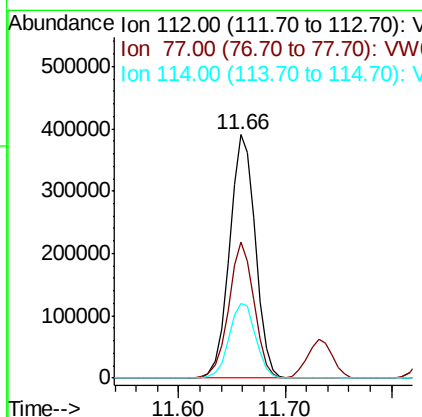
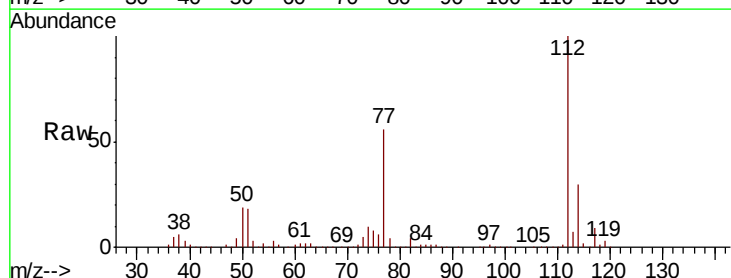
Instrument :  
 MSVOA\_W  
 ClientSampleId :

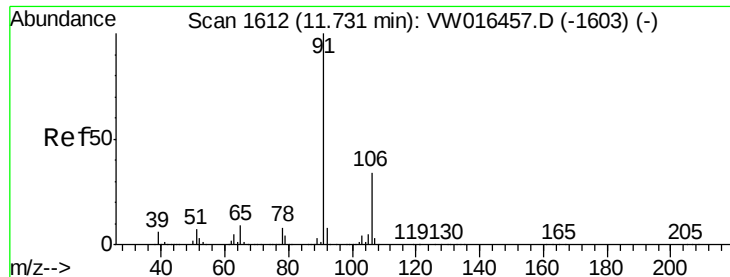
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 95.3  | 64.8  | 120.4 |
| 188     | 3.5   | 3.4   | 5.0   |



#52  
 Chlorobenzene  
 Concen: 26.197 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 55.7  | 46.2  | 69.2  |
| 114     | 30.5  | 21.1  | 39.3  |

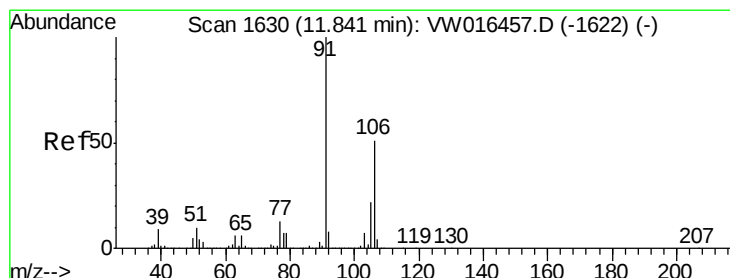
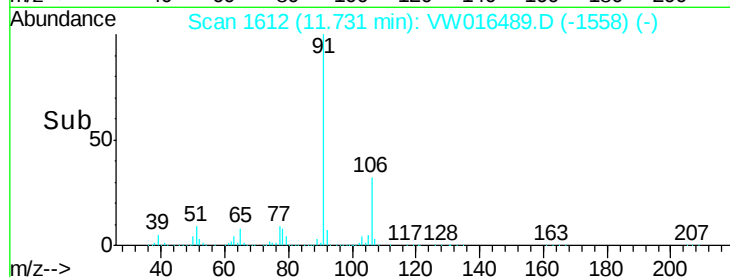
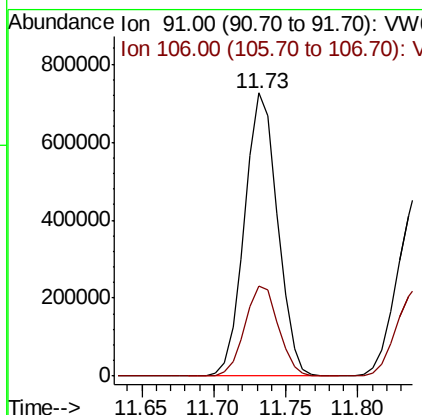
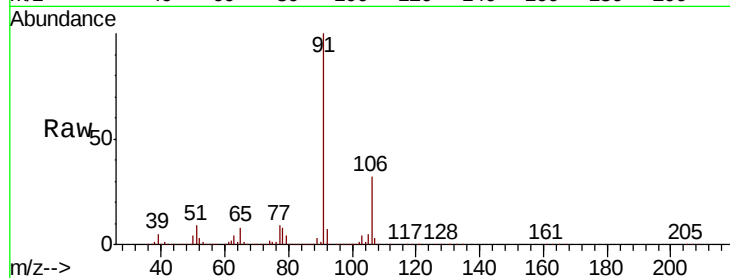




#53  
Ethylbenzene  
Concen: 25.718 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

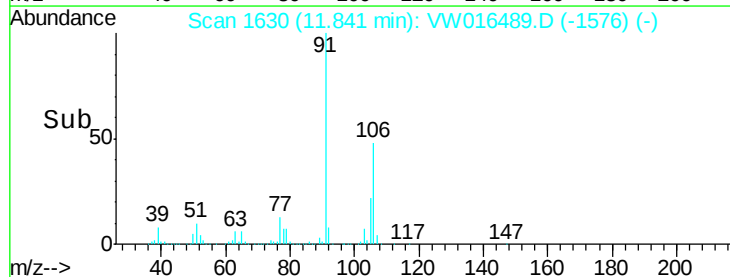
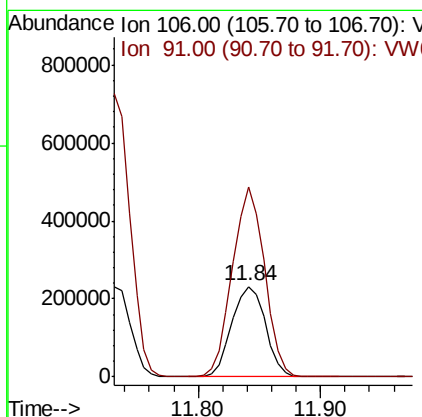
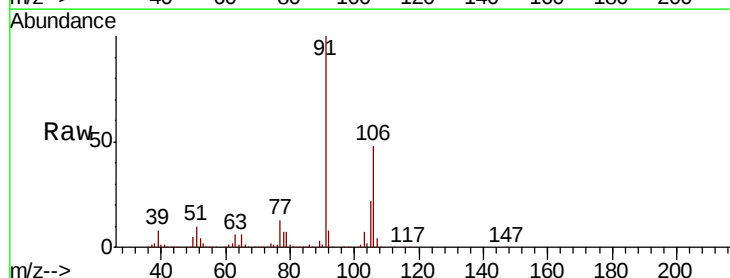
Instrument :  
MSVOA\_W  
ClientSampled :

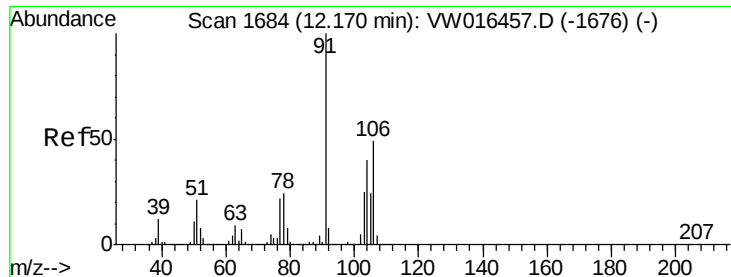
Tot Ion: 91 Resp: 1151956  
Ion Ratio Lower Upper  
91 100  
106 31.9 21.6 40.2



#54  
m,p-Xylene  
Concen: 25.853 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion: 106 Resp: 442578  
Ion Ratio Lower Upper  
106 100  
91 209.6 142.3 264.3

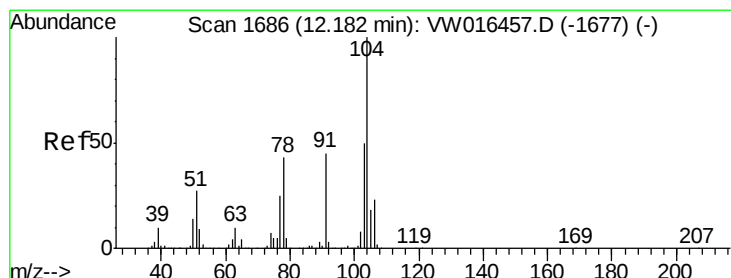
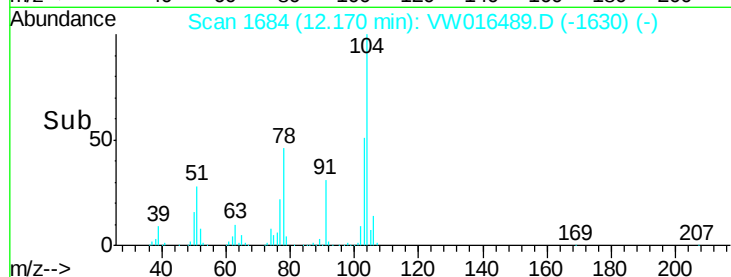
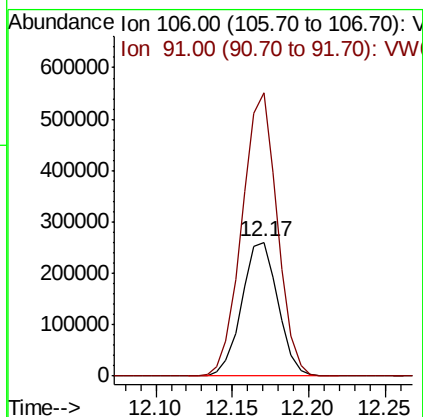
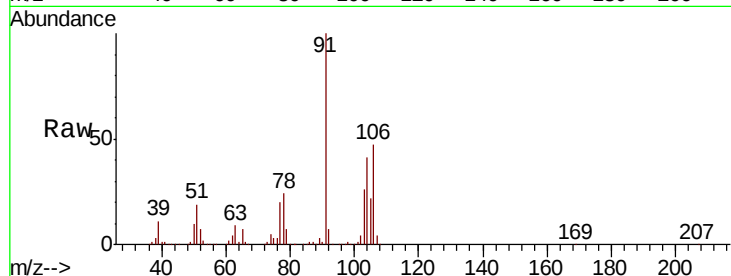




#55  
o-xylene  
Concen: 26.099 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

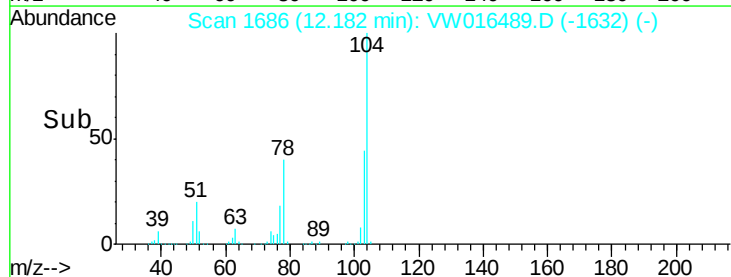
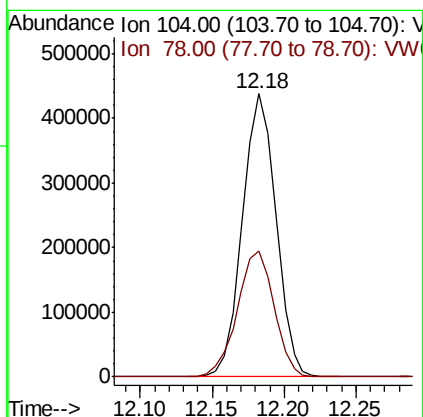
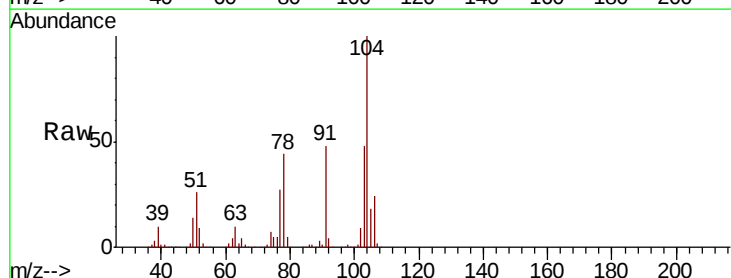
Instrument :  
MSVOA\_W  
ClientSampled :

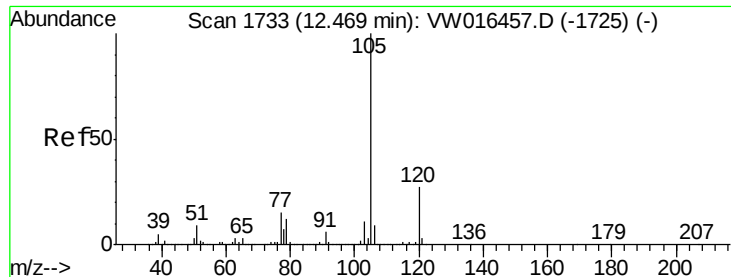
Tot Ion:106 Resp: 425598  
Ion Ratio Lower Upper  
106 100  
91 211.3 144.3 267.9



#56  
Styrene  
Concen: 25.303 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW016489.D  
Acq: 08 Sep 2020 09:21

Tgt Ion:104 Resp: 708945  
Ion Ratio Lower Upper  
104 100  
78 44.4 32.8 61.0





#57

Isopropylbenzene

Concen: 25.948 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

ClientSampleId :

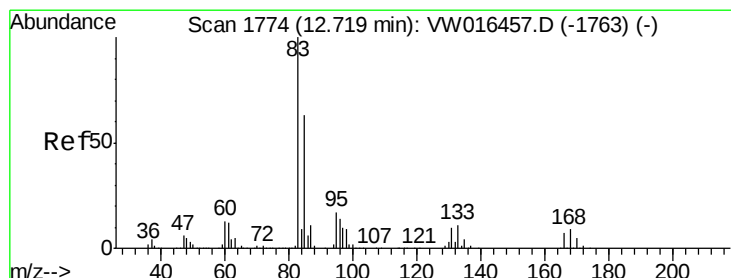
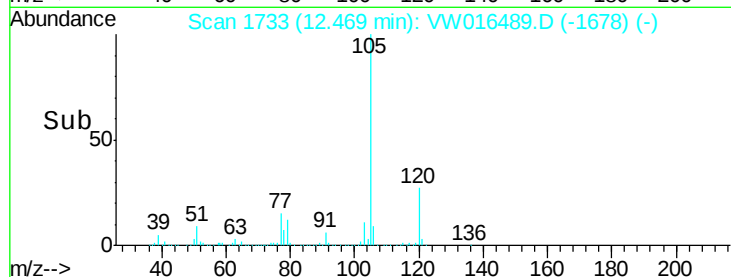
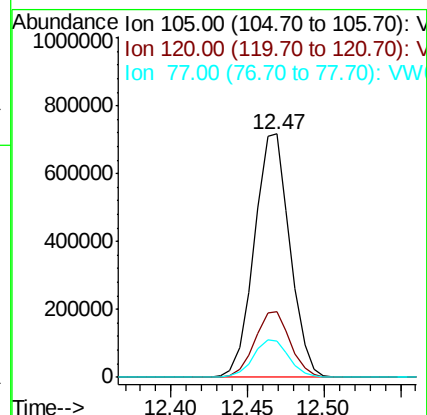
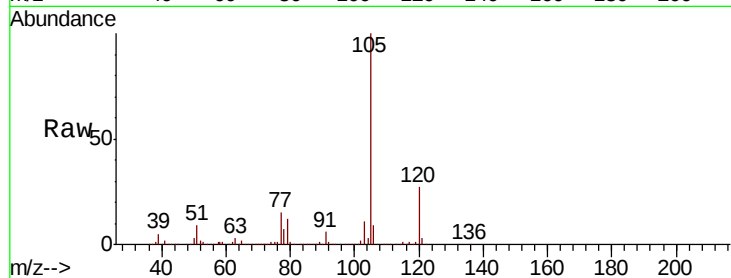
Tot Ion:105 Resp: 1159114

Ion Ratio Lower Upper

105 100

120 26.8 21.9 32.9

77 15.3 13.0 19.6



#58

1,1,2,2-Tetrachloroethane

Concen: 21.613 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

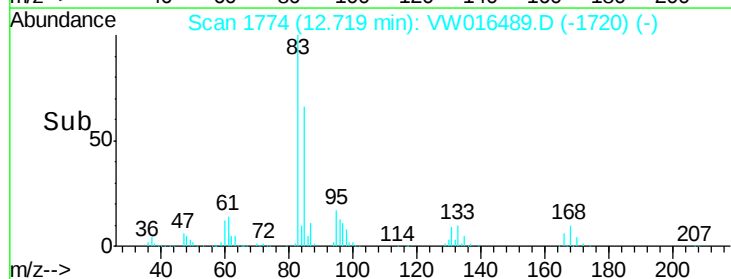
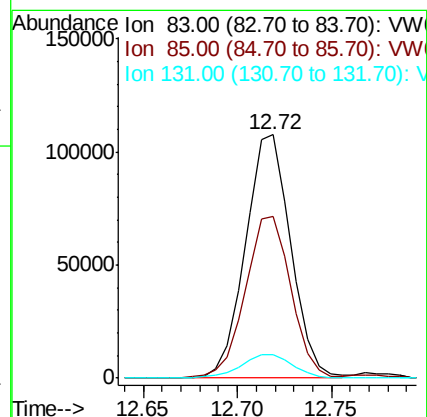
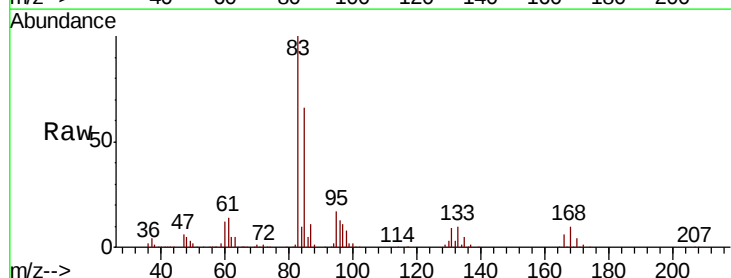
Tgt Ion: 83 Resp: 179428

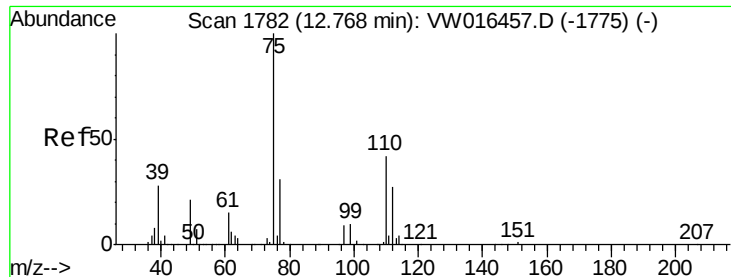
Ion Ratio Lower Upper

83 100

85 66.5 45.3 84.1

131 9.5 8.7 13.1





#59

1,2,3-Trichloropropane

Concen: 20.995 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

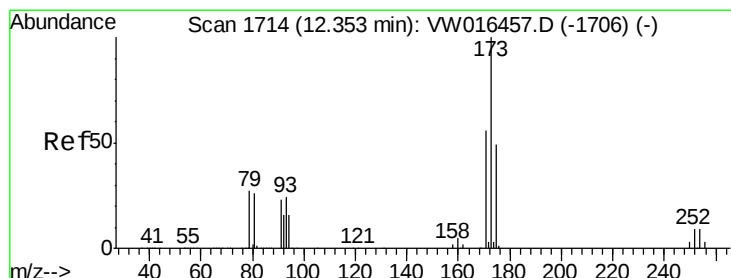
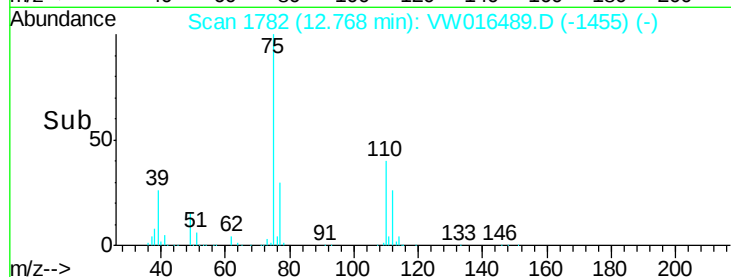
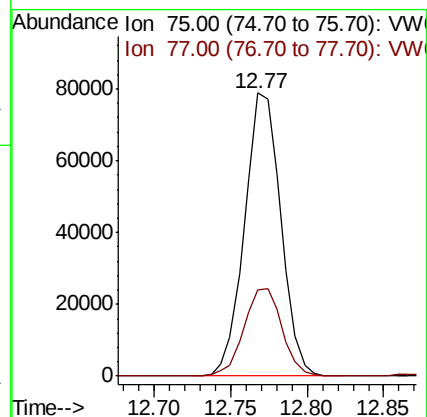
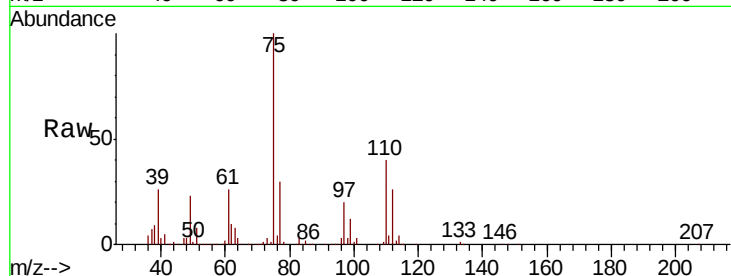
ClientSampleId :

Tot Ion: 75 Resp: 130265

Ion Ratio Lower Upper

75 100

77 32.3 26.0 39.0



#62

Bromoform

Concen: 23.295 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

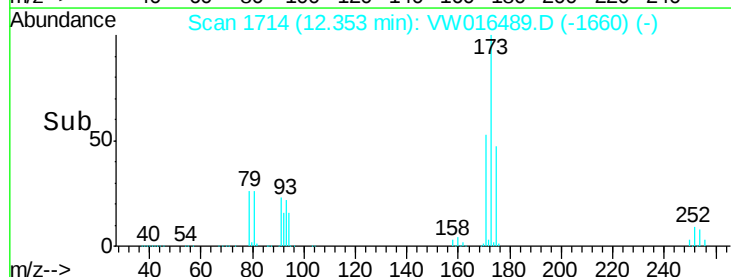
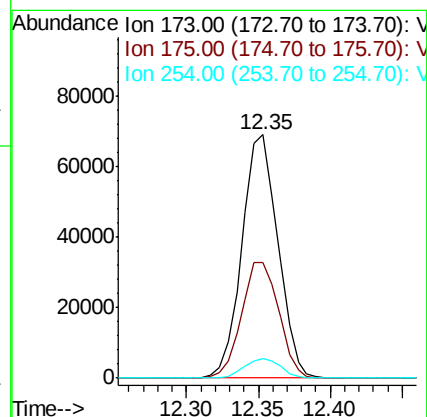
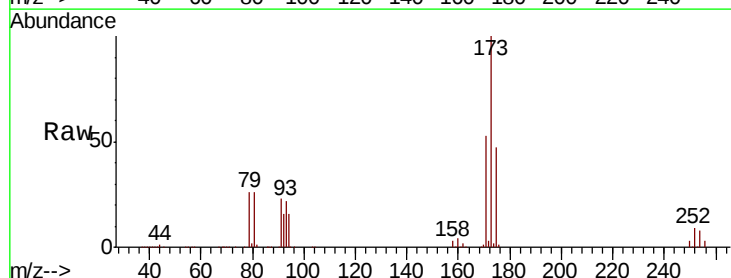
Tgt Ion: 173 Resp: 119539

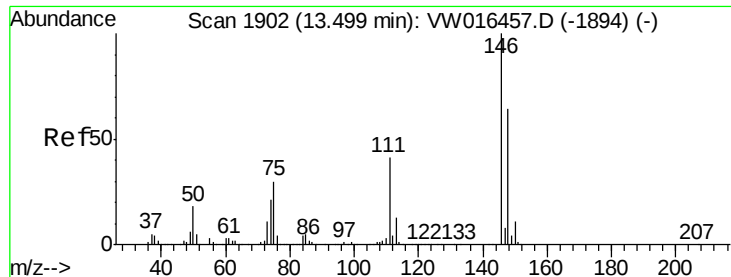
Ion Ratio Lower Upper

173 100

175 49.2 39.2 58.8

254 8.0 5.8 8.6

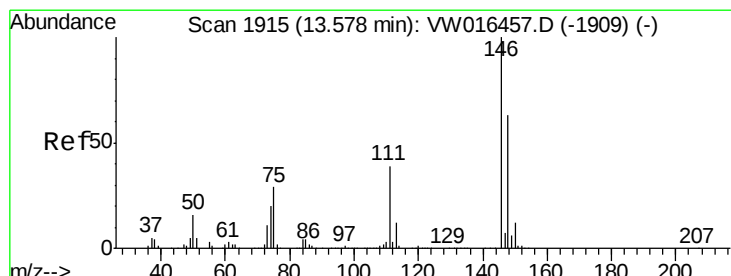
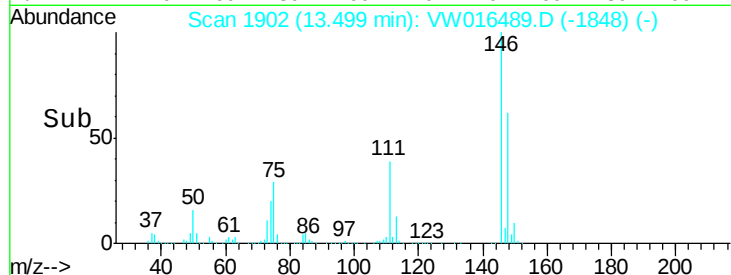
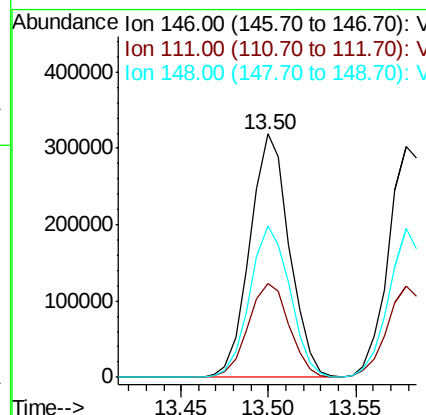
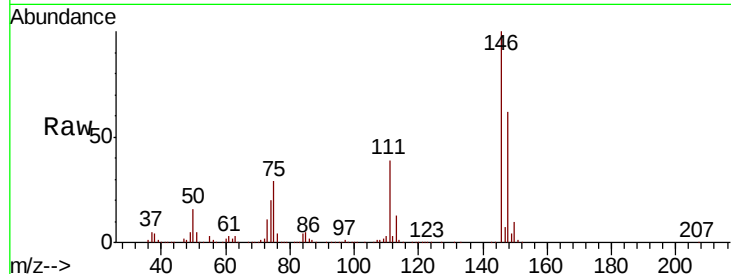




#63  
 1,3-Dichlorobenzene  
 Concen: 26.029 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

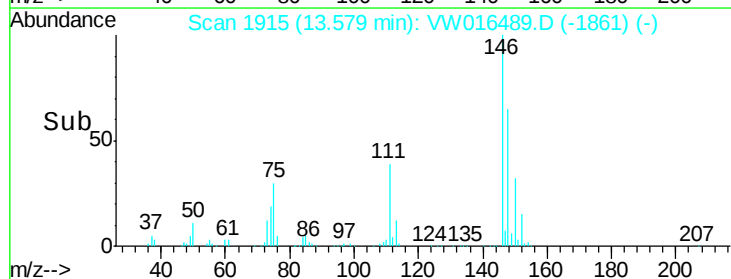
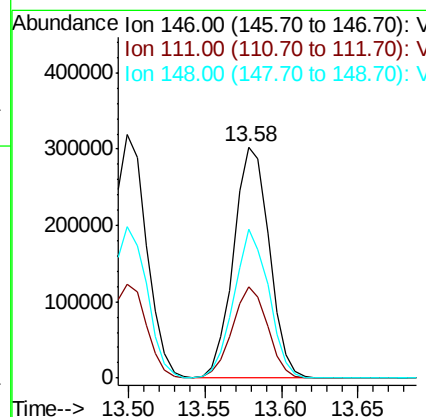
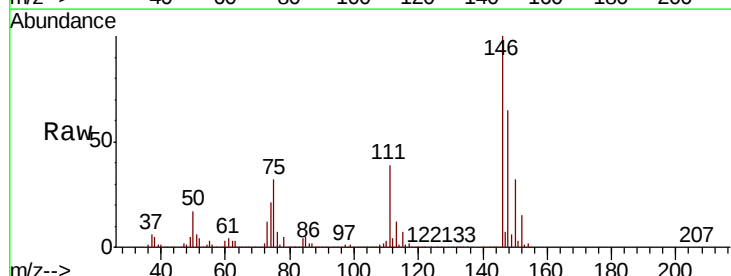
Instrument :  
 MSVOA\_W  
 ClientSampleId :

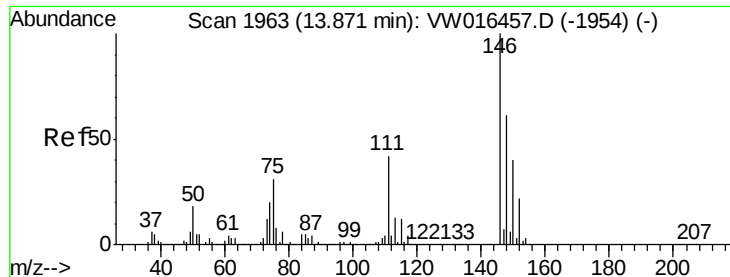
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.8  | 26.5  | 49.3  |
| 148     | 62.5  | 41.3  | 76.7  |



#64  
 1,4-Dichlorobenzene  
 Concen: 25.669 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.3  | 26.4  | 49.0  |
| 148     | 64.6  | 45.1  | 83.9  |





#65

1,2-Dichlorobenzene

Concen: 26.166 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

ClientSampleId :

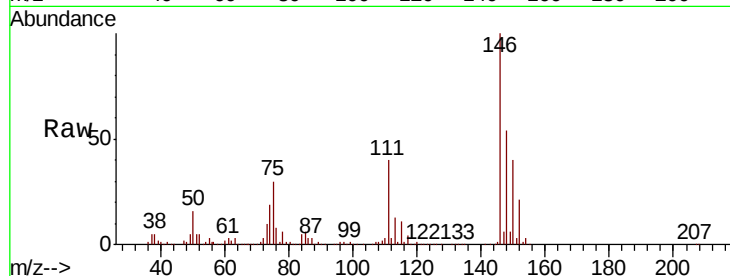
Tot Ion:146 Resp: 447788

Ion Ratio Lower Upper

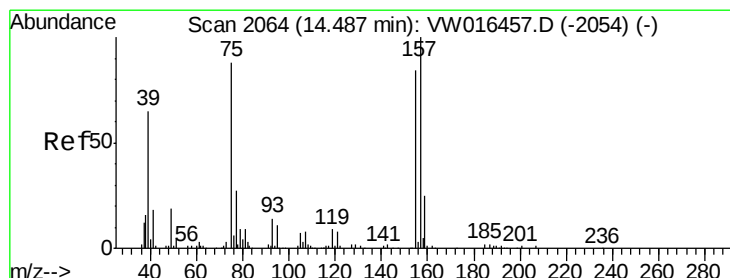
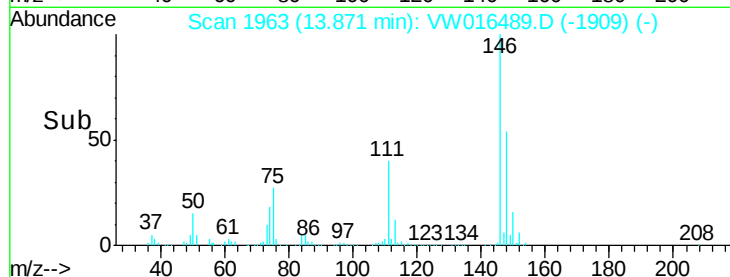
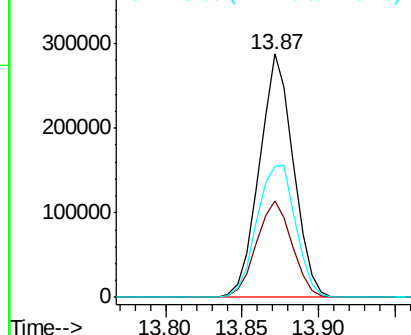
146 100

111 39.7 35.3 52.9

148 53.6 49.8 74.8



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: 19.170 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

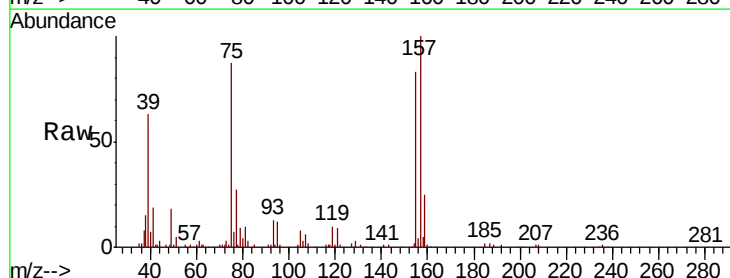
Tgt Ion: 75 Resp: 30547

Ion Ratio Lower Upper

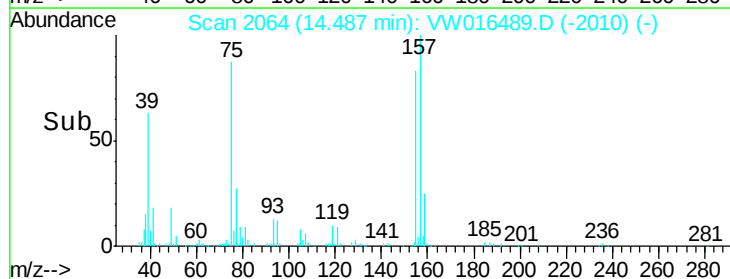
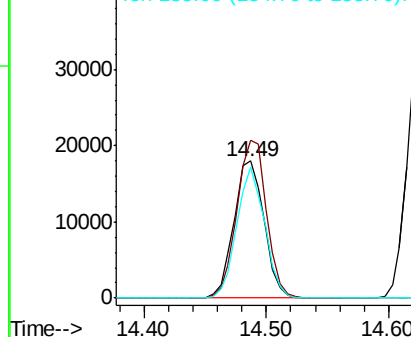
75 100

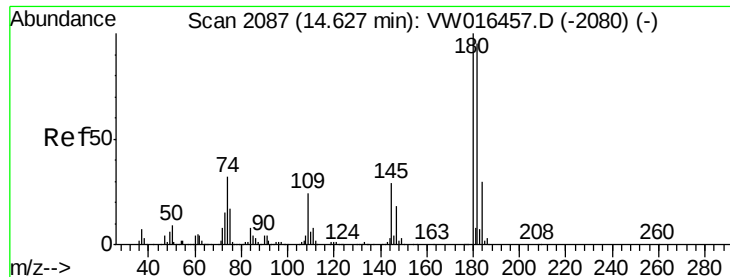
157 114.9 91.4 137.0

155 95.5 71.3 106.9



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

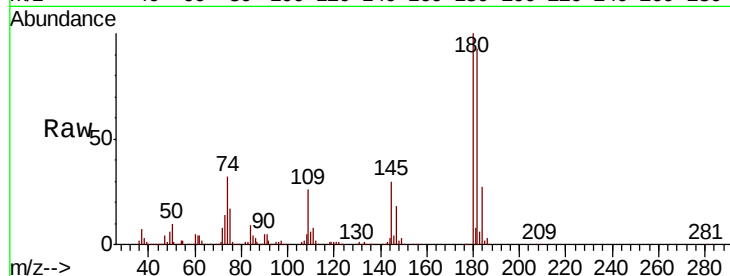




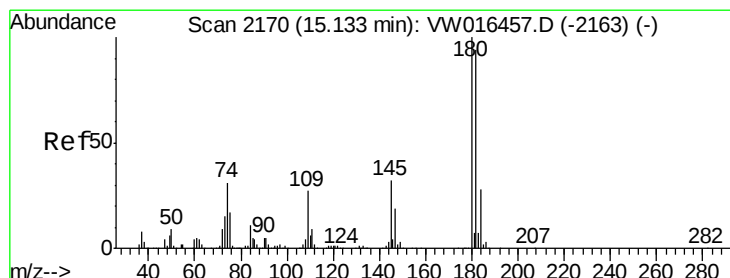
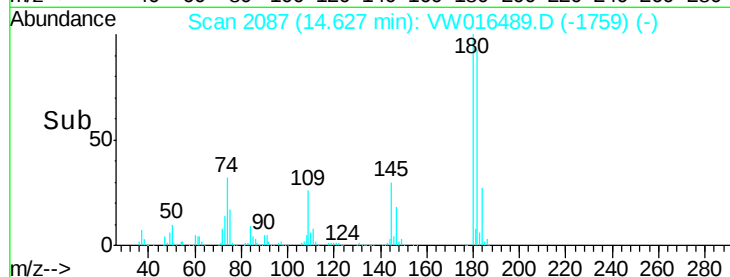
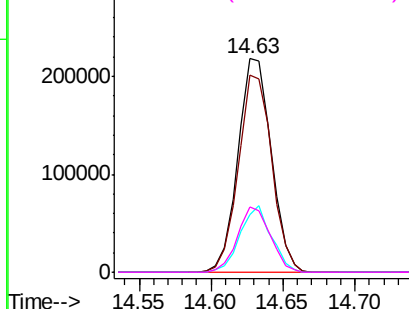
#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.416 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 180   | Resp: | 350538 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 92.2  | 75.8  | 113.8  |
| 184      | 29.2  | 24.2  | 36.2   |
| 145      | 30.0  | 24.6  | 36.8   |

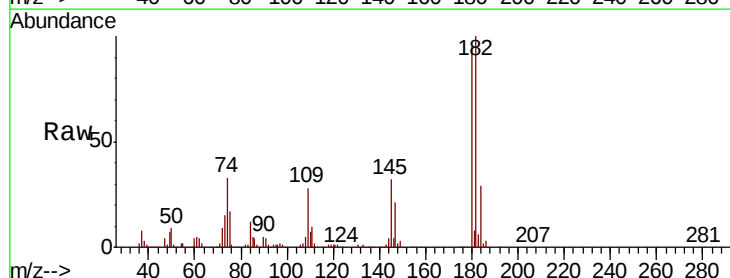


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

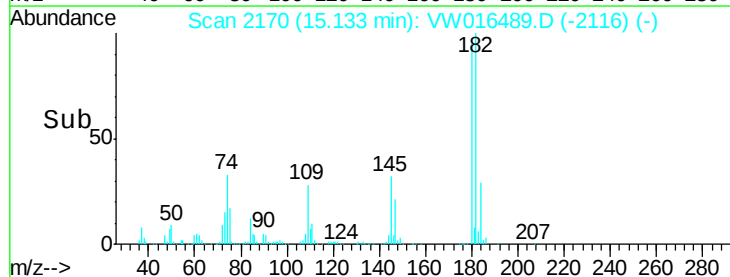
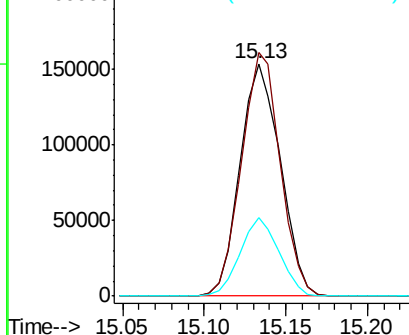


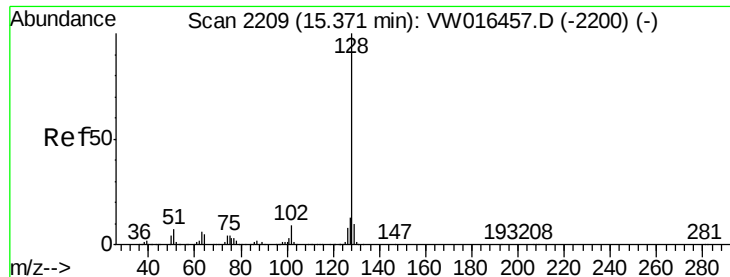
#68  
 1,2,4-trichlorobenzene  
 Concen: 23.022 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW016489.D  
 Acq: 08 Sep 2020 09:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 264240 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 100.8 | 78.5  | 117.7  |
| 145      | 32.7  | 25.6  | 38.4   |



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: 22.286 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

Instrument :

MSVOA\_W

ClientSampleId :

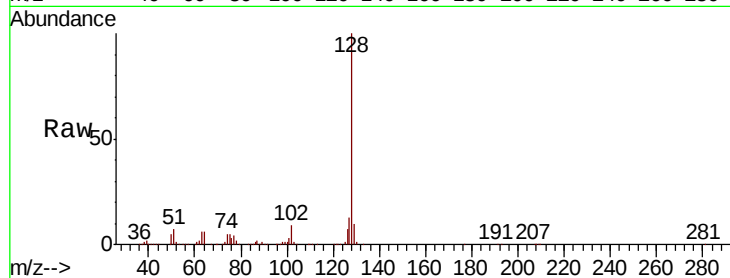
Tot Ion:128 Resp: 539856

Ion Ratio Lower Upper

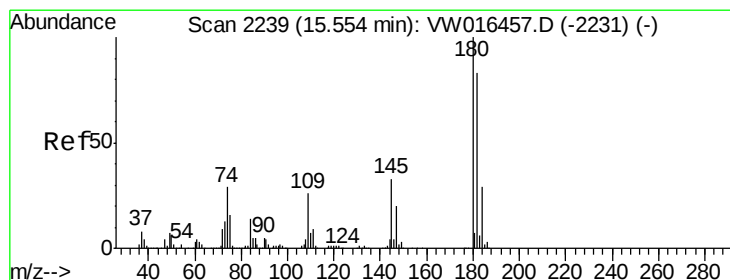
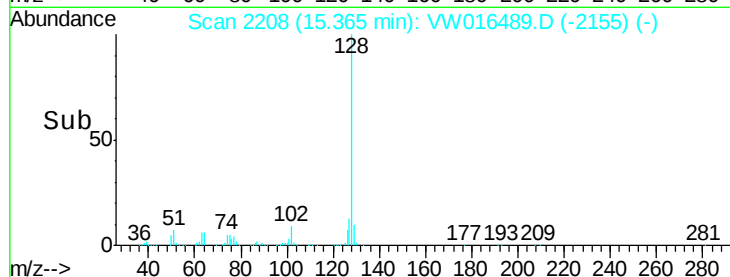
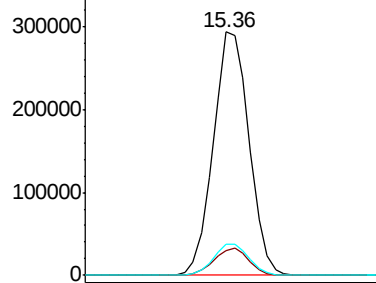
128 100

129 10.9 8.7 13.1

127 13.0 10.5 15.7



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



#70

1,2,3-Trichlorobenzene

Concen: 24.476 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW016489.D

Acq: 08 Sep 2020 09:21

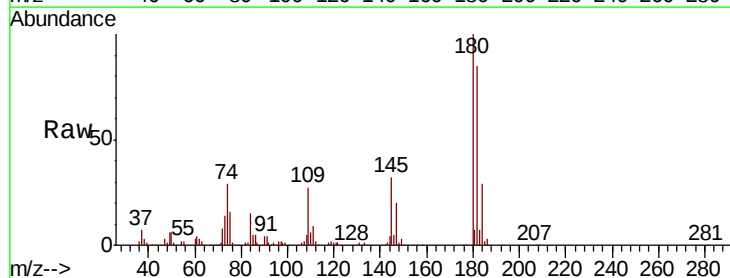
Tgt Ion:180 Resp: 241203

Ion Ratio Lower Upper

180 100

182 92.9 76.1 114.1

145 33.2 28.1 42.1



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

