

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102120\  
 Data File : VW016958.D  
 Acq On : 21 Oct 2020 15:34  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

Quant Time: Oct 21 22:58:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 21 22:50:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 460191   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 426322   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 223832   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 83791    | 18.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.84%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 77369    | 20.32    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 81.28%   |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 208285   | 21.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 86.44%   |
| 20) 2-Butanone-d5              | 7.09   | 46    | 71085    | 69.13    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 138.26%# |
| 24) Chloroform-d               | 7.65   | 84    | 243381   | 25.06    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 100.24%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 118477   | 25.26    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.04%  |
| 29) Benzene-d6                 | 8.28   | 84    | 453090   | 23.40    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.60%   |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 133062   | 25.57    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.28%  |
| 37) Toluene-d8                 | 10.33  | 98    | 418282   | 22.89    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.56%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 57343    | 24.99    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 99.96%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 58096    | 72.19    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 144.38%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 136335   | 32.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 129.72%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 180848   | 25.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.88%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 112054 | 20.372 | ug/L 98  |
| 3) Chloromethane               | 2.21 | 50  | 94055  | 19.398 | ug/L 98  |
| 5) Vinyl chloride              | 2.37 | 62  | 154659 | 24.570 | ug/L 99  |
| 6) Bromomethane                | 2.79 | 94  | 101853 | 22.010 | ug/L 100 |
| 8) Chloroethane                | 2.93 | 64  | 90625  | 23.327 | ug/L 95  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 125121 | 25.727 | ug/L 98  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 158609 | 25.600 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.05 | 96  | 147098 | 24.723 | ug/L 89  |
| 13) Acetone                    | 4.14 | 43  | 44292  | 56.919 | ug/L 98  |
| 14) Carbon disulfide           | 4.39 | 76  | 377641 | 22.135 | ug/L 98  |
| 15) Methyl Acetate             | 4.68 | 43  | 55426  | 29.811 | ug/L 98  |
| 16) Methylene chloride         | 4.92 | 84  | 148237 | 23.341 | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 183640 | 27.581 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 152066 | 24.464 | ug/L 96  |
| 19) 1,1-Dichloroethane         | 6.23 | 63  | 248627 | 25.974 | ug/L 98  |
| 21) 2-Butanone                 | 7.18 | 43  | 72021  | 55.133 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.18 | 96  | 161322 | 25.436 | ug/L 98  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV102120\  
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 Acq On : 21 Oct 2020 15:34  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

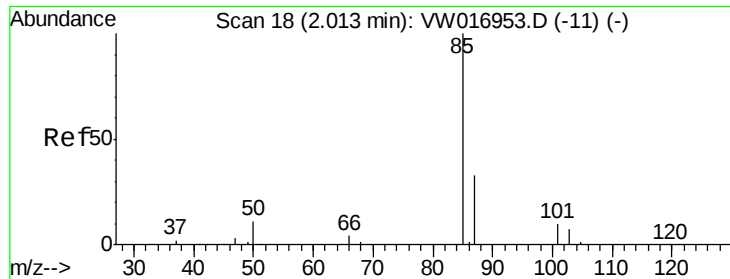
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

Quant Time: Oct 21 22:58:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 21 22:50:53 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 78855    | 26.476 | ug/L  | 97       |
| 25) Chloroform                  | 7.68  | 83   | 268300   | 25.955 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 159165   | 25.740 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 208914   | 23.630 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 228177   | 25.168 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 218713   | 24.721 | ug/L  | 100      |
| 34) Benzene                     | 8.33  | 78   | 578384   | 25.263 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 159474   | 24.626 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 262654   | 24.122 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 136199   | 26.309 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 186413   | 25.632 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 215326   | 26.088 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 159218   | 61.090 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 642167   | 25.285 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 185034   | 26.641 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 117739   | 27.978 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 144248   | 24.026 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.97 | 43   | 107669   | 62.588 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 145111   | 27.737 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 111202   | 26.889 | ug/L  | 92       |
| 52) Chlorobenzene               | 11.66 | 112  | 431803   | 25.334 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 724745   | 25.438 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 283217   | 25.559 | ug/L  | 97       |
| 55) o-xylene                    | 12.17 | 106  | 269703   | 25.475 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 463019   | 26.503 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.47 | 105  | 740145   | 25.531 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 137151   | 29.489 | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 99248    | 29.457 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 84700    | 26.900 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 351080   | 24.645 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 343391   | 24.104 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 319455   | 25.046 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 21109    | 27.284 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 268414   | 25.349 | ug/L  | 96       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 218573   | 25.131 | ug/L  | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 407351   | 28.284 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 188932   | 25.281 | ug/L  | 97       |

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





#2

Dichlorodifluoromethane

Concen: 20.372 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

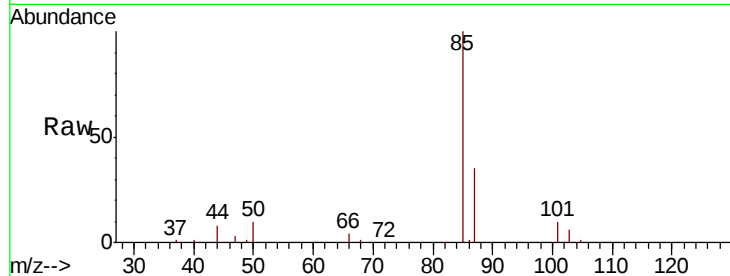
VSTD02520

Tot Ion: 85 Resp: 112054

Ion Ratio Lower Upper

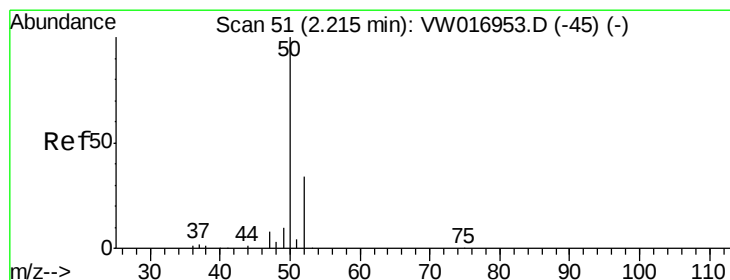
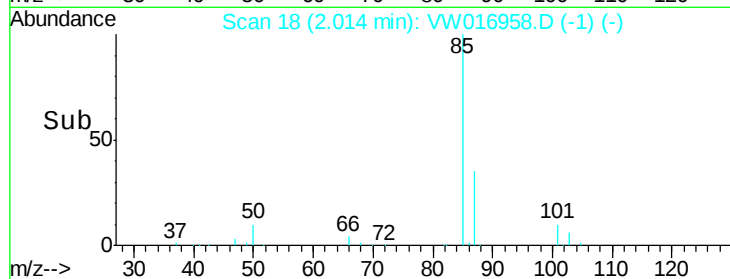
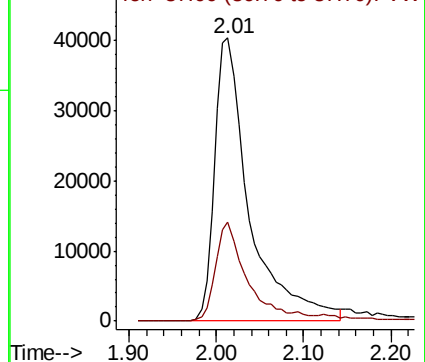
85 100

87 30.4 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: 19.398 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW016958.D

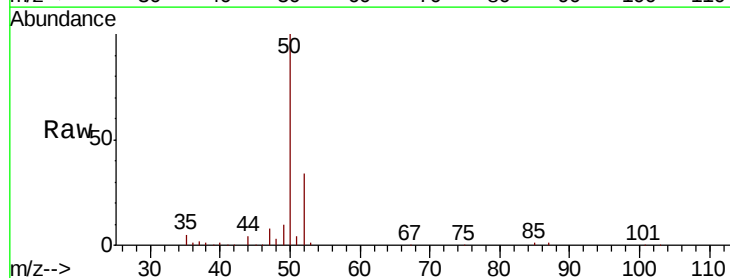
Acq: 21 Oct 2020 15:34

Tgt Ion: 50 Resp: 94055

Ion Ratio Lower Upper

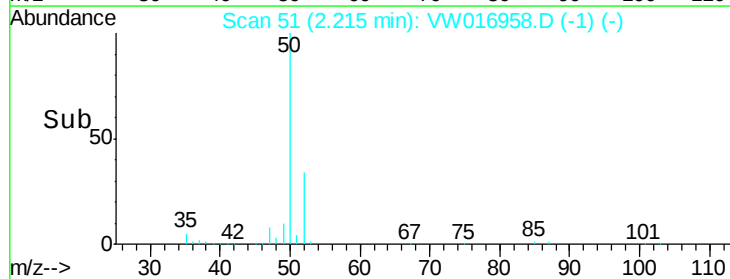
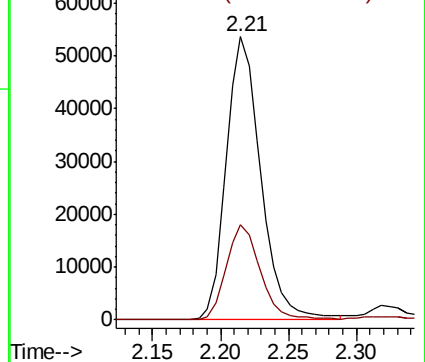
50 100

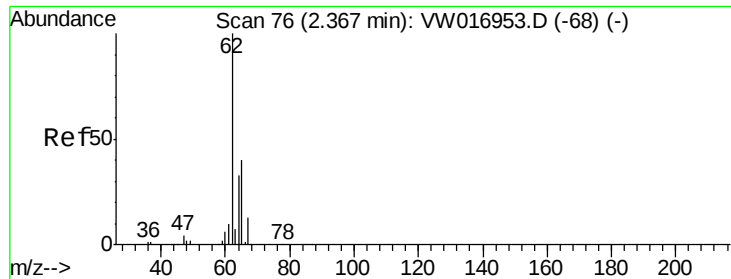
52 33.8 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.570 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

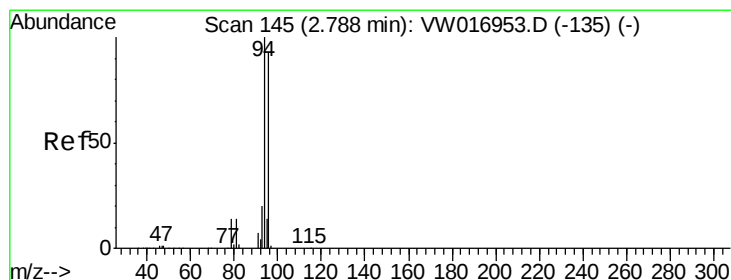
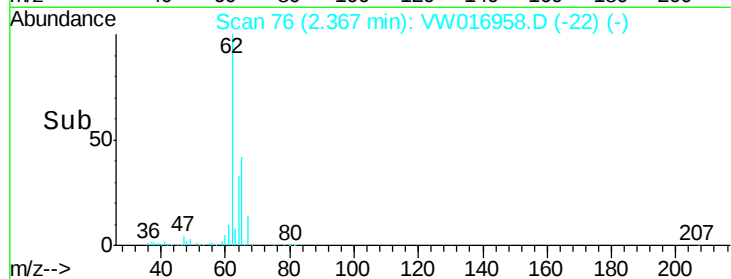
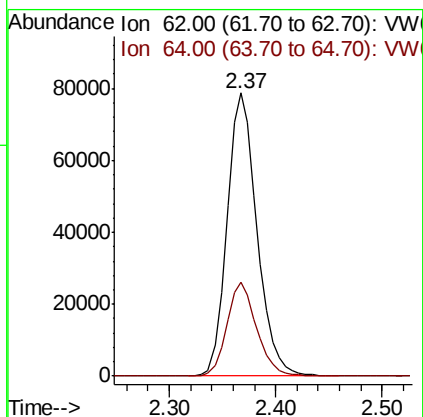
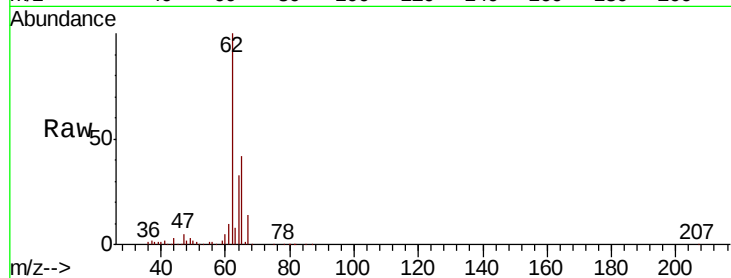
VSTD02520

Tot Ion: 62 Resp: 154659

Ion Ratio Lower Upper

62 100

64 33.3 23.5 43.7



#6

Bromomethane

Concen: 22.010 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW016958.D

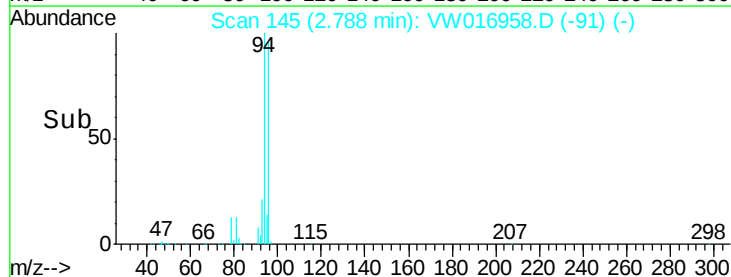
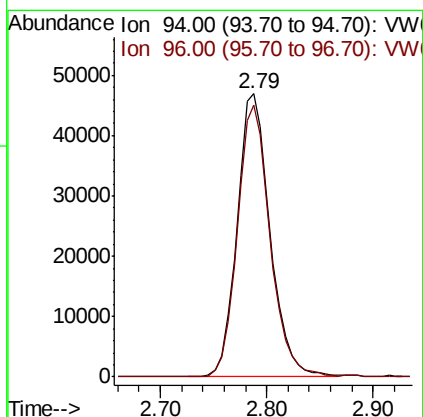
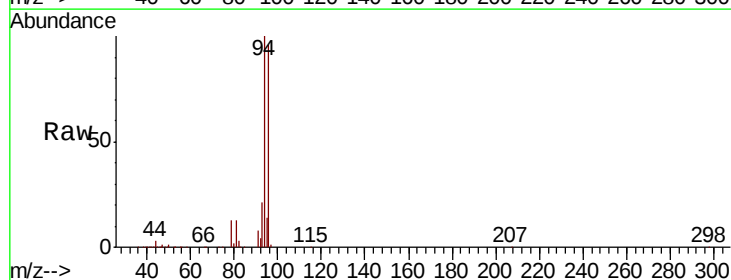
Acq: 21 Oct 2020 15:34

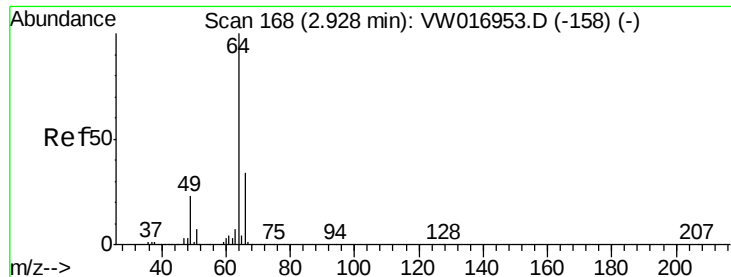
Tgt Ion: 94 Resp: 101853

Ion Ratio Lower Upper

94 100

96 95.3 9.5 180.7





#8

Chloroethane

Concen: 23.327 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

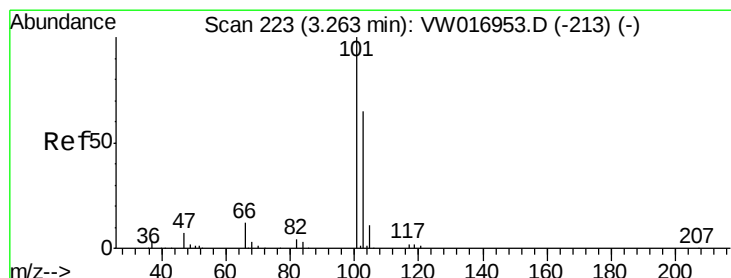
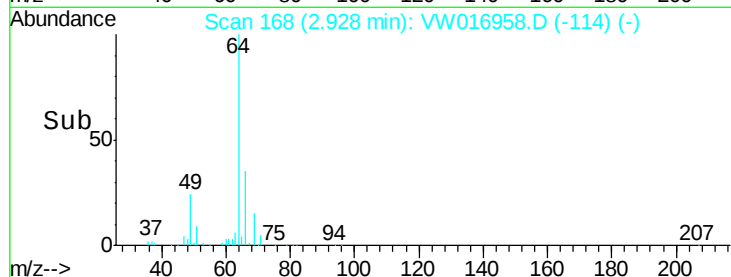
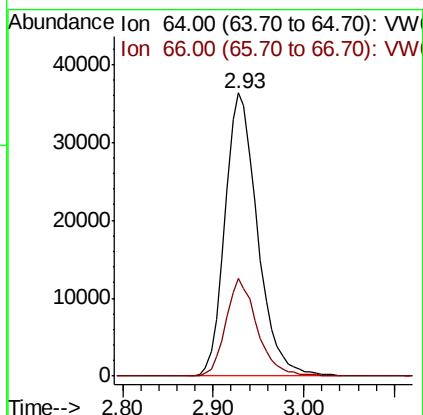
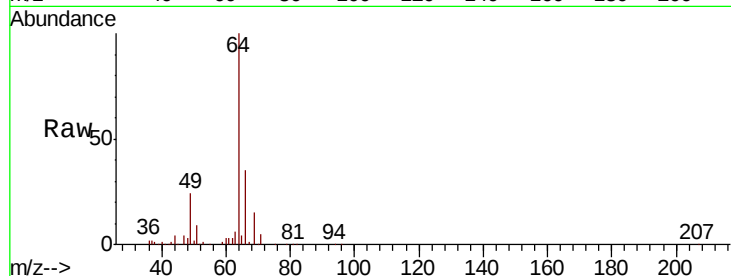
VSTD02520

Tot Ion: 64 Resp: 90625

Ion Ratio Lower Upper

64 100

66 34.8 22.5 41.7



#9

Trichlorofluoromethane

Concen: 25.727 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW016958.D

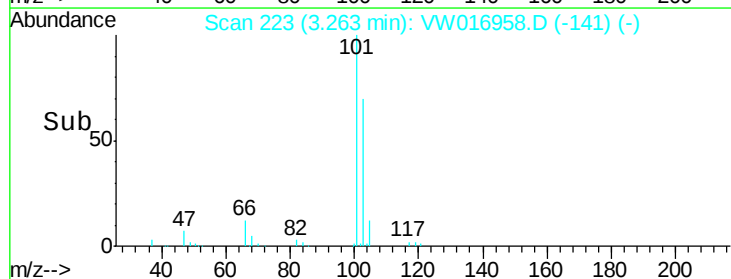
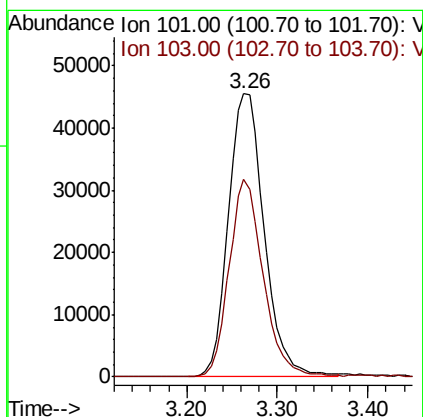
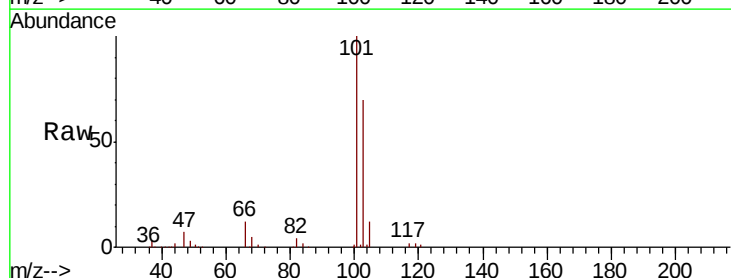
Acq: 21 Oct 2020 15:34

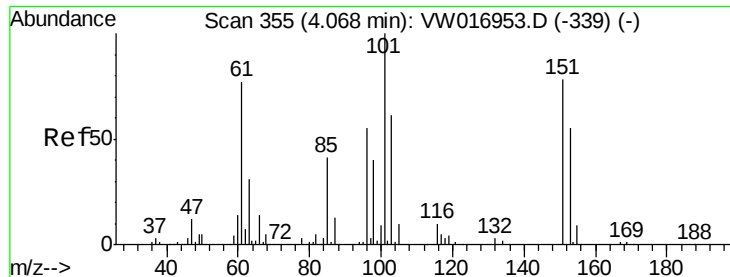
Tgt Ion: 101 Resp: 125121

Ion Ratio Lower Upper

101 100

103 66.3 45.2 84.0





#11

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

Concen: 25.600 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02520

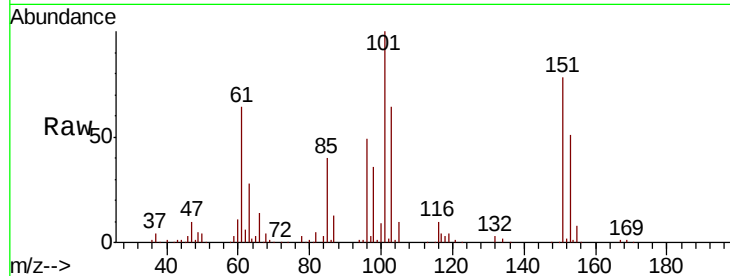
Tot Ion:101 Resp: 158609

Ion Ratio Lower Upper

101 100

85 40.6 31.7 47.5

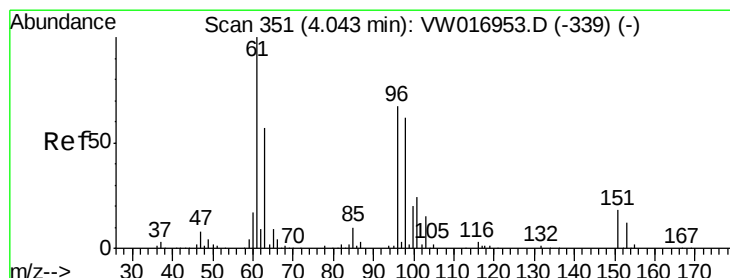
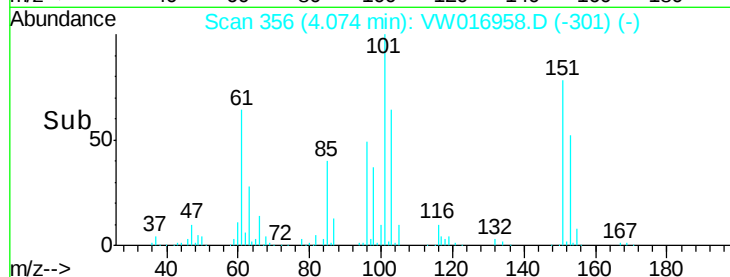
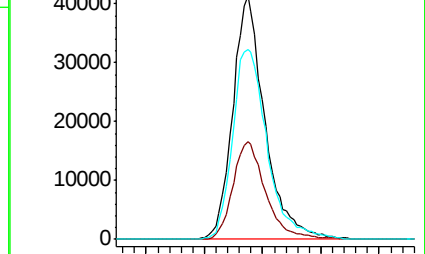
151 84.0 66.6 99.8



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: 24.723 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

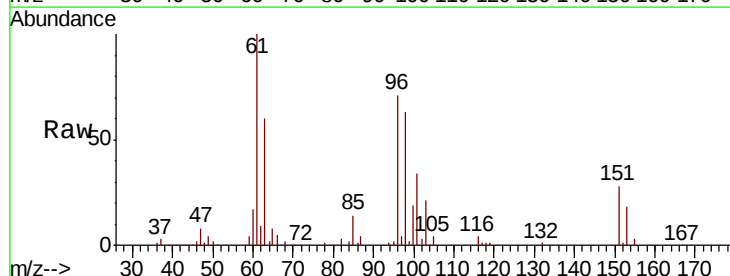
Tgt Ion: 96 Resp: 147098

Ion Ratio Lower Upper

96 100

61 140.4 105.1 195.1

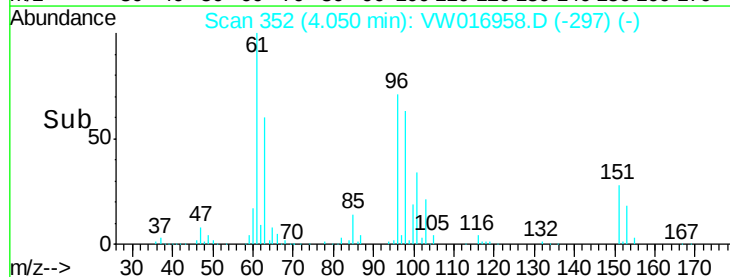
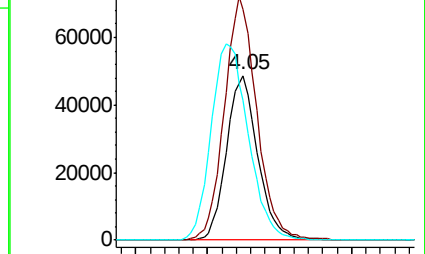
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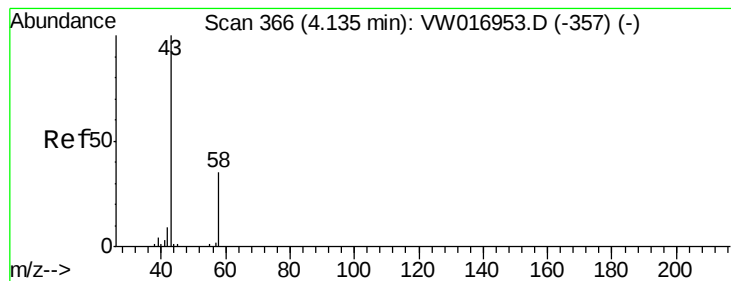


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 56.919 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

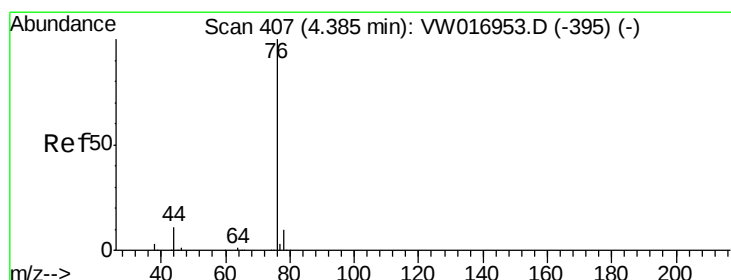
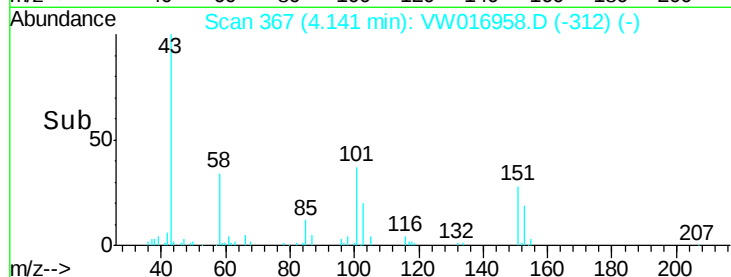
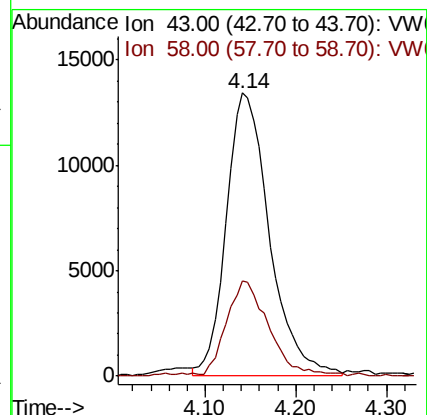
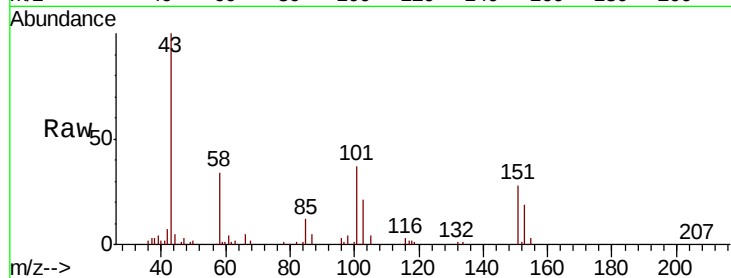
VSTD02520

Tot Ion: 43 Resp: 44292

Ion Ratio Lower Upper

43 100

58 32.7 0.0 67.6



#14

Carbon disulfide

Concen: 22.135 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW016958.D

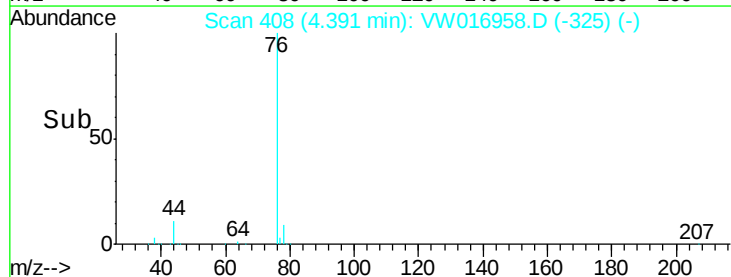
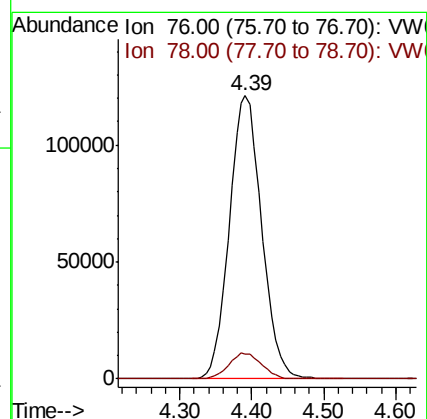
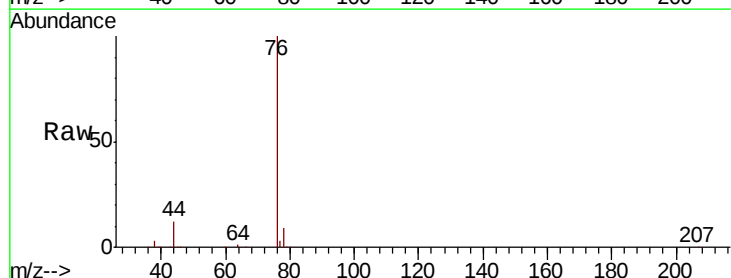
Acq: 21 Oct 2020 15:34

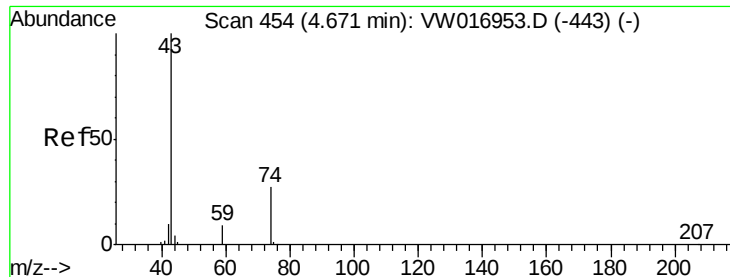
Tgt Ion: 76 Resp: 377641

Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.0

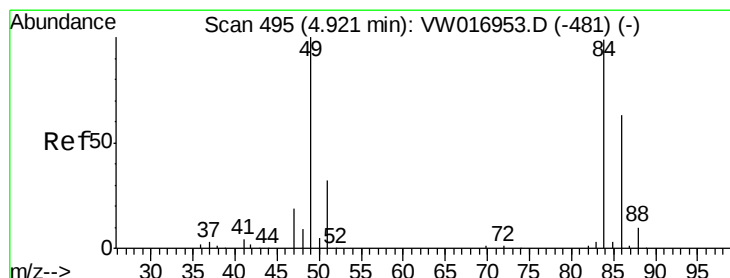
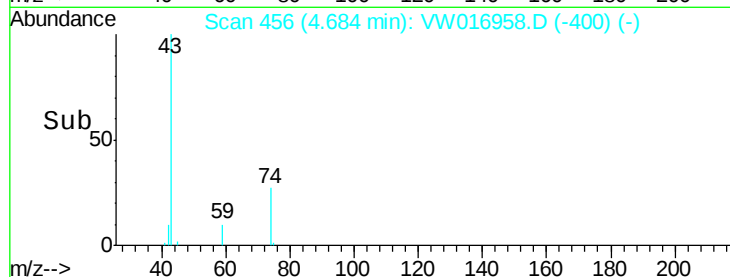
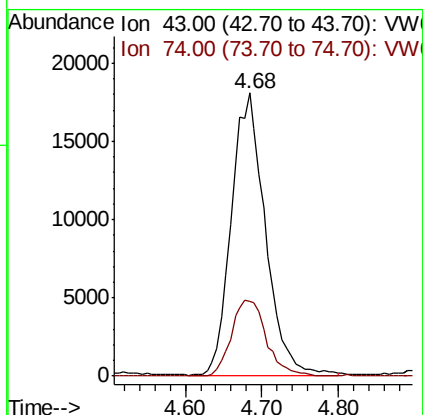
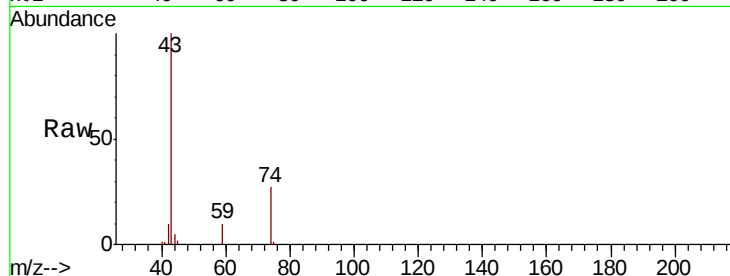




#15  
Methyl Acetate  
Concen: 29.811 ug/L  
RT: 4.68 min Scan# 456  
Delta R.T. 0.01 min  
Lab File: VW016958.D  
Acq: 21 Oct 2020 15:34

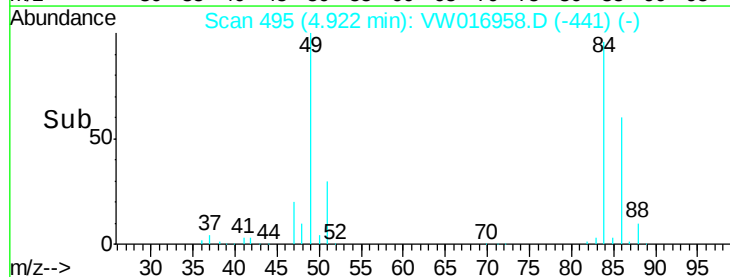
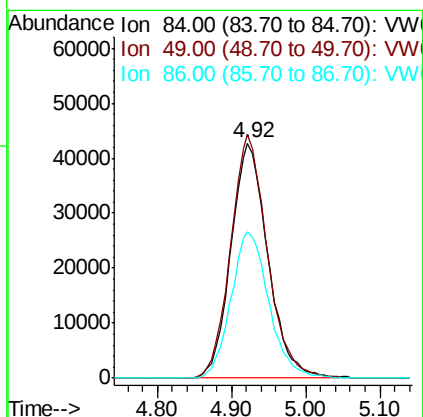
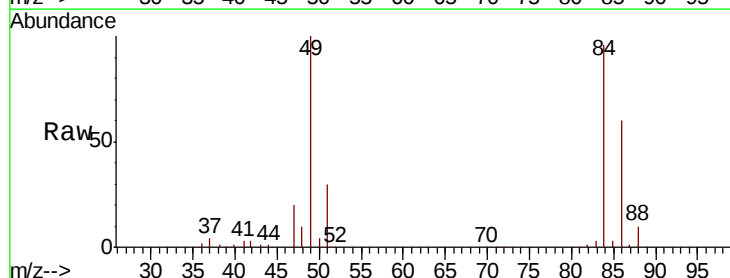
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02520

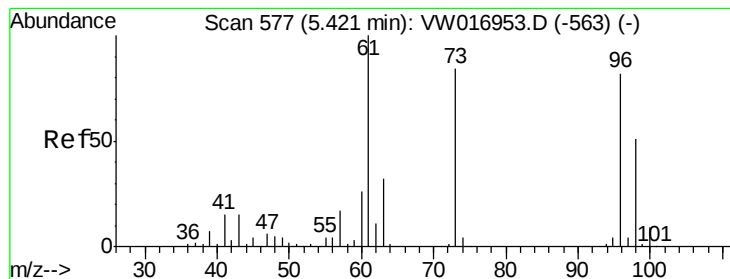
Tot Ion: 43 Resp: 55426  
Ion Ratio Lower Upper  
43 100  
74 27.6 22.7 34.1



#16  
Methylene chloride  
Concen: 23.341 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW016958.D  
Acq: 21 Oct 2020 15:34

Tgt Ion: 84 Resp: 148237  
Ion Ratio Lower Upper  
84 100  
49 103.6 73.1 135.8  
86 62.5 46.0 85.4



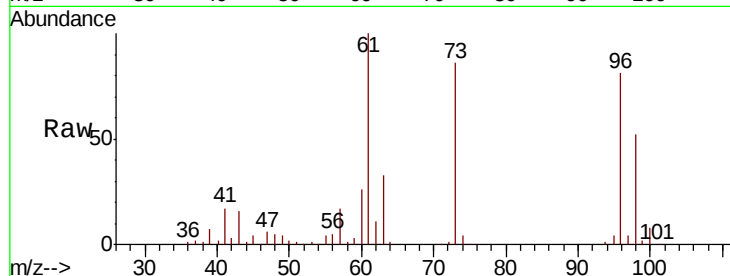


#17

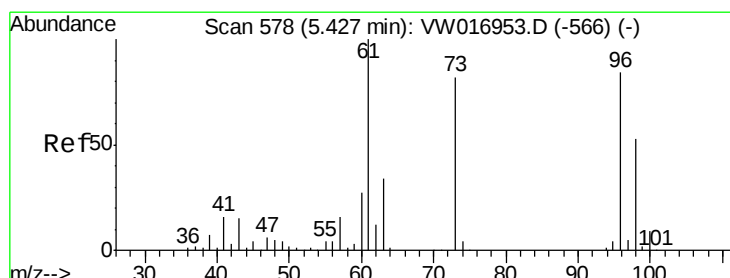
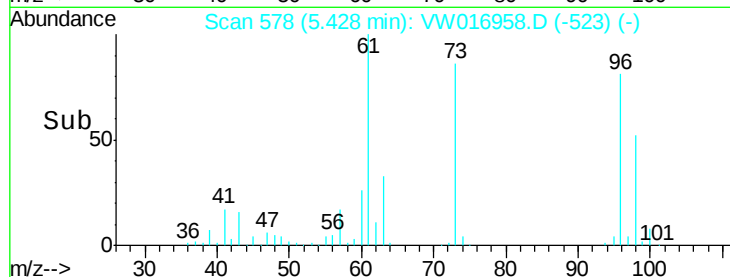
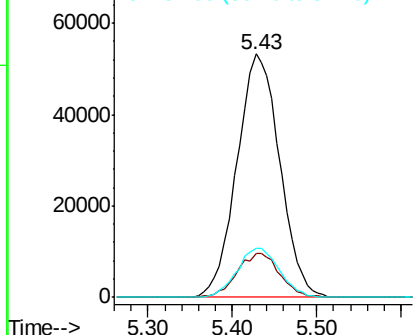
Methyl tert-butyl Ether  
 Concen: 27.581 ug/L  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.01 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

Tot Ion: 73 Resp: 183640  
 Ion Ratio Lower Upper  
 73 100  
 43 18.1 15.0 22.4  
 57 20.0 16.4 24.6



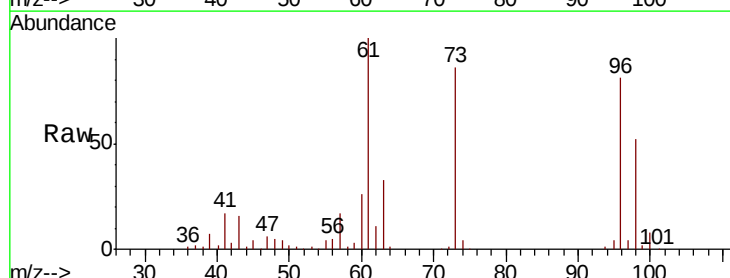
Abundance Ion 73.00 (72.70 to 73.70): VW  
 Ion 43.00 (42.70 to 43.70): VW  
 Ion 57.00 (56.70 to 57.70): VW



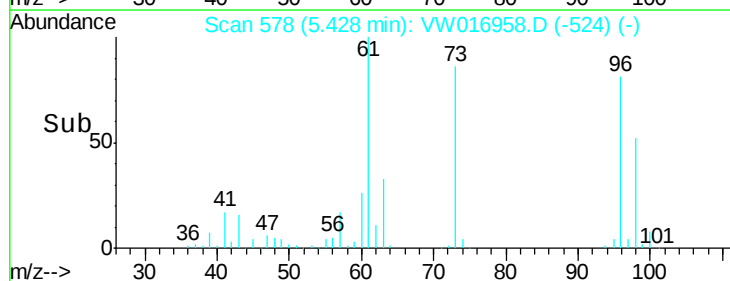
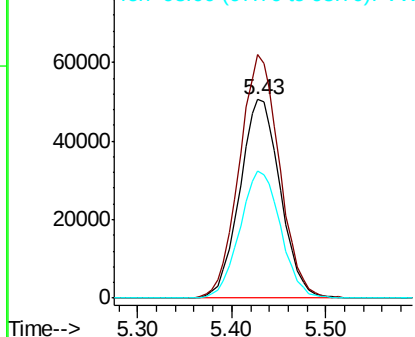
#18

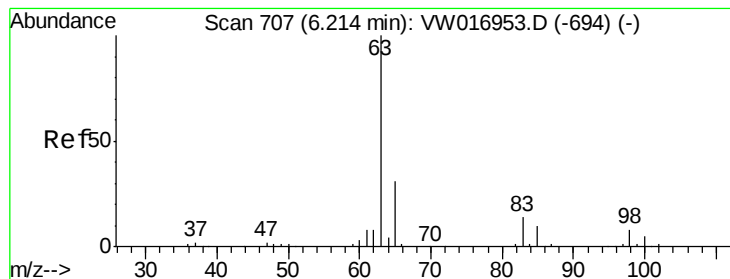
trans-1,2-Dichloroethene  
 Concen: 24.464 ug/L  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Tgt Ion: 96 Resp: 152066  
 Ion Ratio Lower Upper  
 96 100  
 61 122.8 82.5 153.3  
 98 64.0 43.3 80.5



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: 25.974 ug/L

RT: 6.23 min Scan# 709

Delta R.T. 0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02520

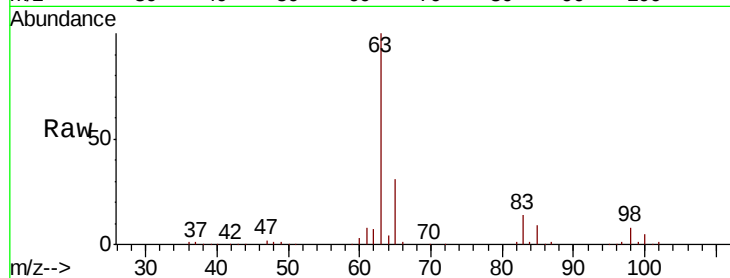
Tot Ion: 63 Resp: 248627

Ion Ratio Lower Upper

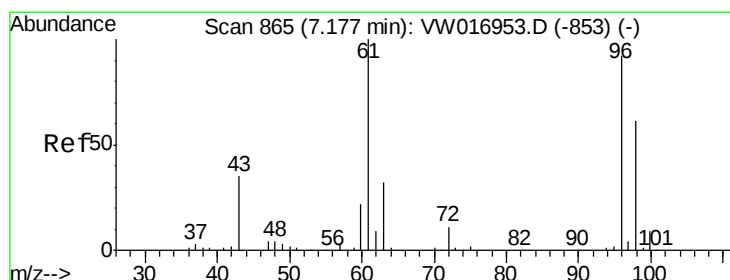
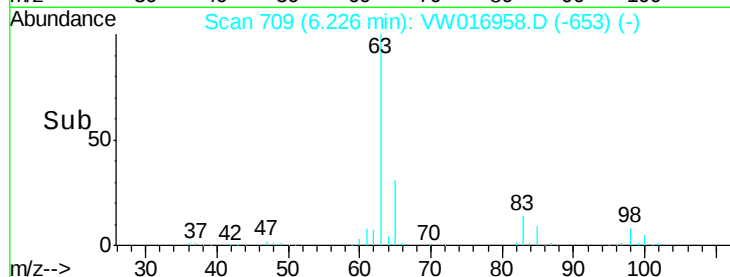
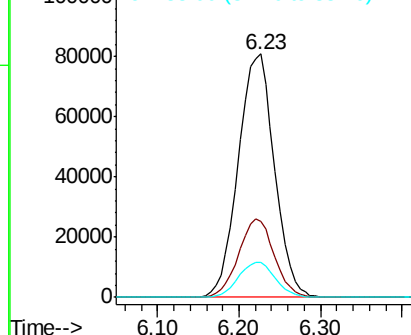
63 100

65 31.0 22.7 42.1

83 14.4 9.9 18.5



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



#21

2-Butanone

Concen: 55.133 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW016958.D

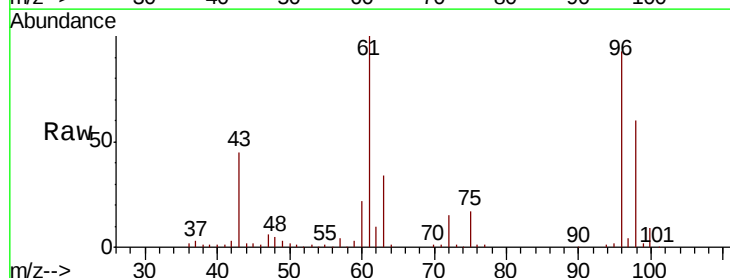
Acq: 21 Oct 2020 15:34

Tgt Ion: 43 Resp: 72021

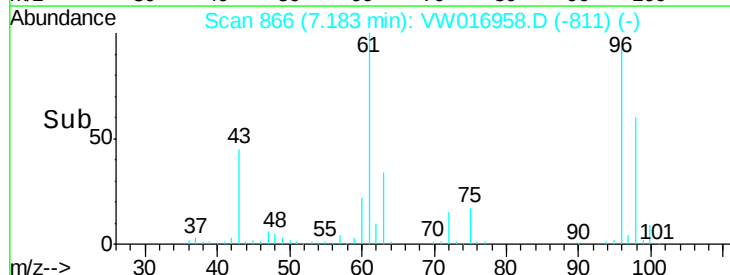
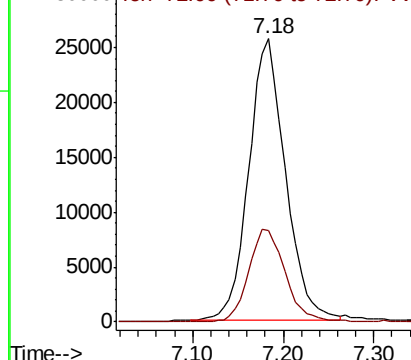
Ion Ratio Lower Upper

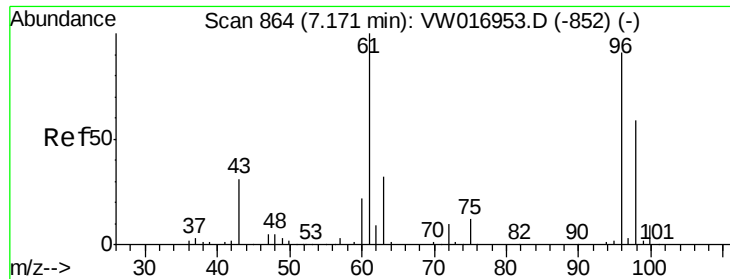
43 100

72 32.7 16.2 48.5



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

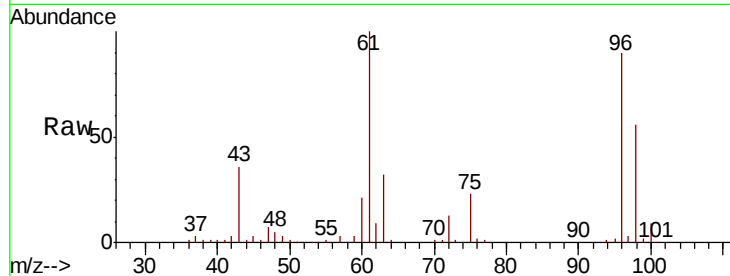




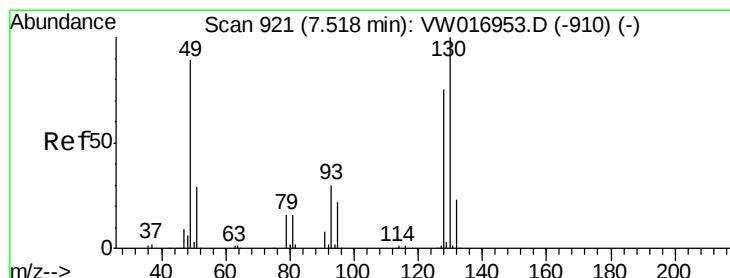
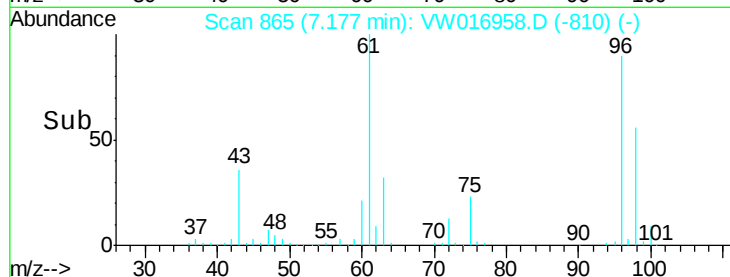
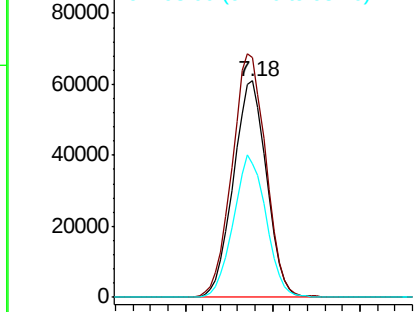
#22  
 cis-1,2-Dichloroethene  
 Concen: 25.436 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. 0.01 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

Tot Ion: 96 Resp: 161322  
 Ion Ratio Lower Upper  
 96 100  
 61 110.6 76.0 141.2  
 98 61.9 42.7 79.3

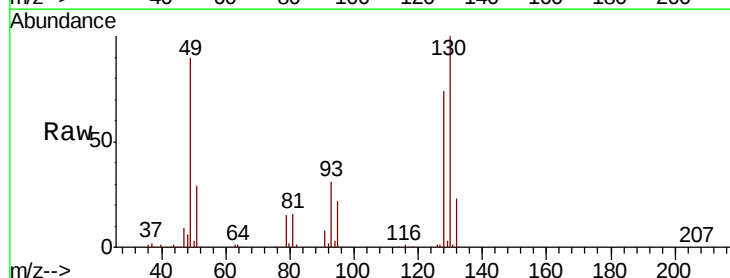


Abundance Ion 96.00 (95.70 to 96.70): VW  
 Ion 61.00 (60.70 to 61.70): VW  
 Ion 98.00 (97.70 to 98.70): VW

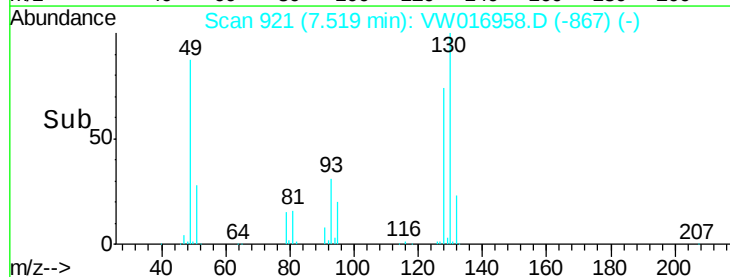
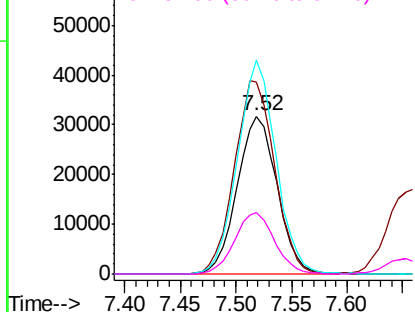


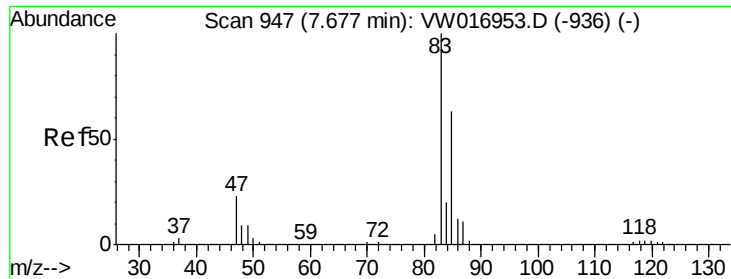
#23  
 Bromochloromethane  
 Concen: 26.476 ug/L  
 RT: 7.52 min Scan# 921  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Tgt Ion: 128 Resp: 78855  
 Ion Ratio Lower Upper  
 128 100  
 49 121.4 88.5 164.3  
 130 135.4 92.9 172.5  
 51 38.9 32.6 48.8



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

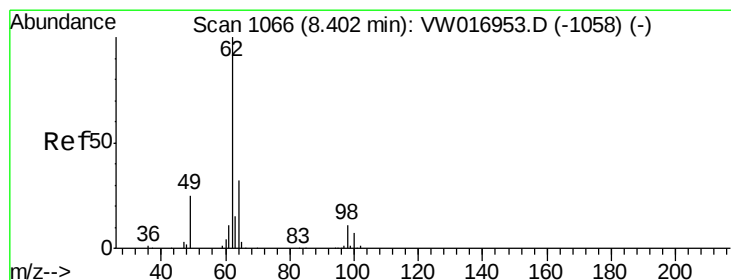
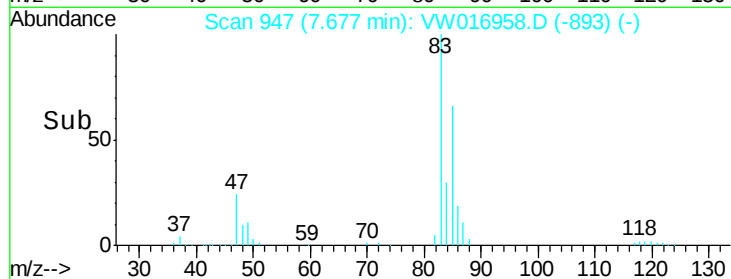
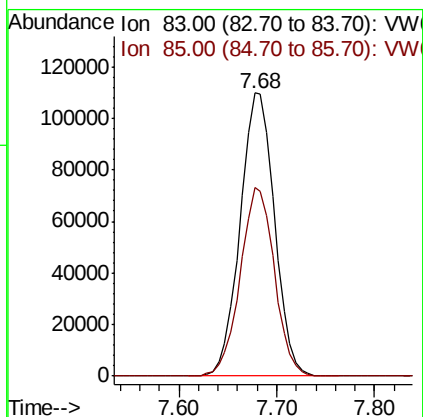
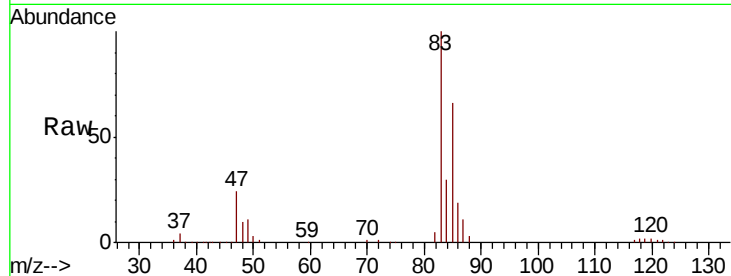




#25  
Chloroform  
Concen: 25.955 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW016958.D  
Acq: 21 Oct 2020 15:34

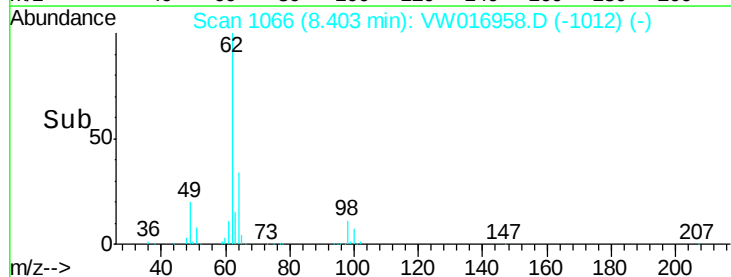
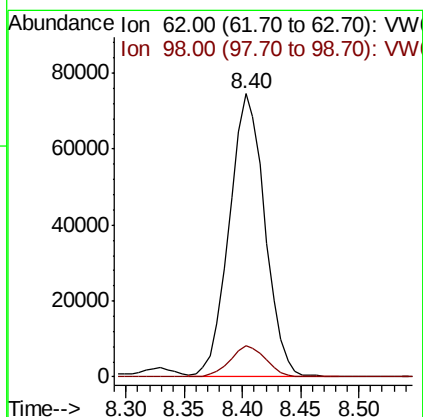
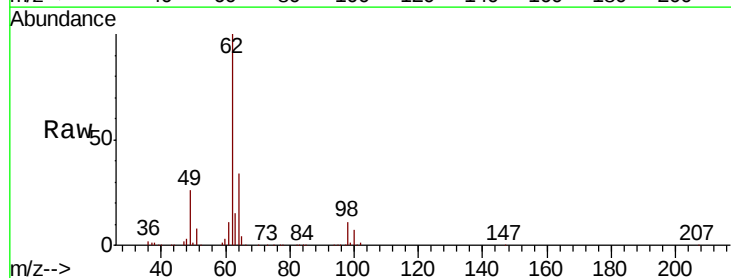
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02520

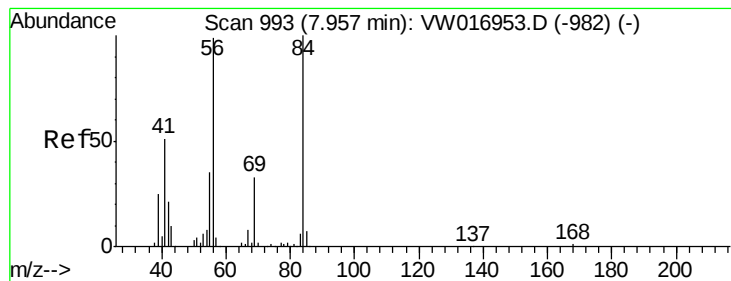
Tot Ion: 83 Resp: 268300  
Ion Ratio Lower Upper  
83 100  
85 66.4 46.9 87.1



#27  
1,2-Dichloroethane  
Concen: 25.740 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW016958.D  
Acq: 21 Oct 2020 15:34

Tgt Ion: 62 Resp: 159165  
Ion Ratio Lower Upper  
62 100  
98 10.9 8.6 12.8





#30

Cyclohexane

Concen: 23.630 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02520

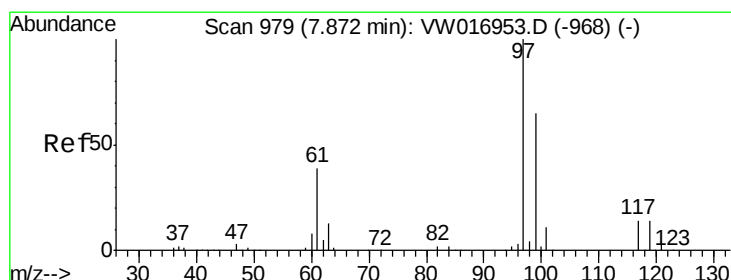
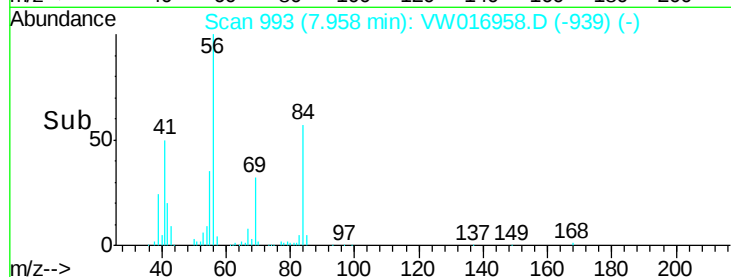
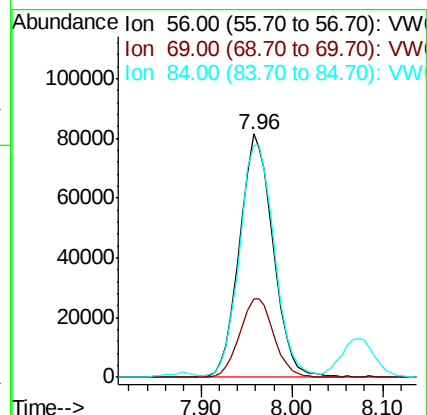
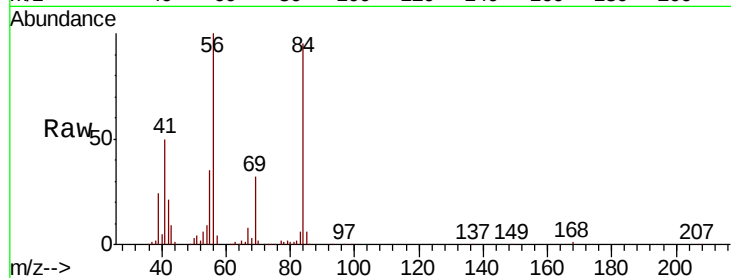
Tot Ion: 56 Resp: 208914

Ion Ratio Lower Upper

56 100

69 33.1 26.1 39.1

84 99.8 79.3 118.9



#31

1,1,1-Trichloroethane

Concen: 25.168 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

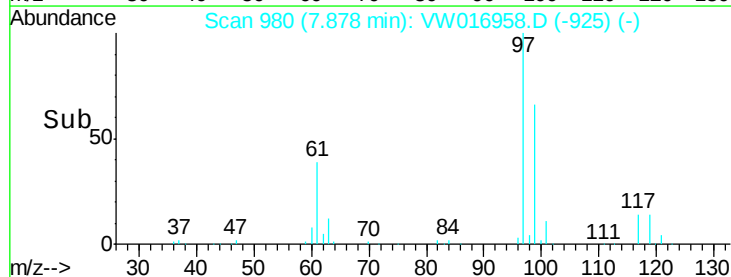
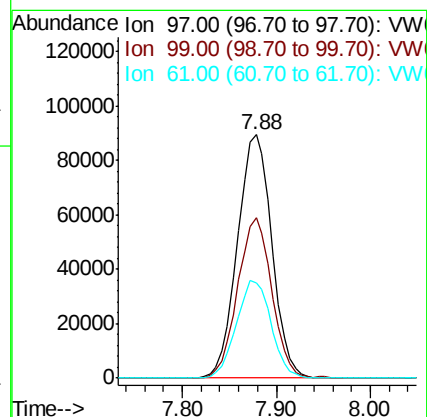
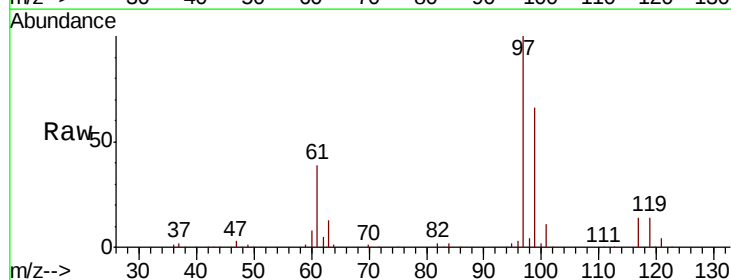
Tgt Ion: 97 Resp: 228177

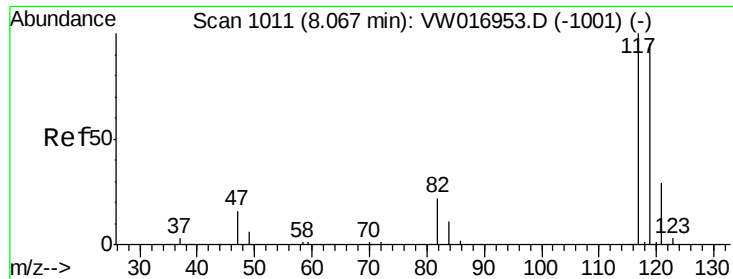
Ion Ratio Lower Upper

97 100

99 65.3 51.5 77.3

61 40.4 32.5 48.7





#32

Carbon tetrachloride

Concen: 24.721 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

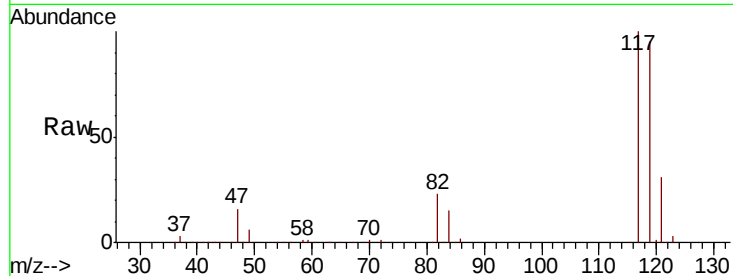
VSTD02520

Tot Ion:117 Resp: 218713

Ion Ratio Lower Upper

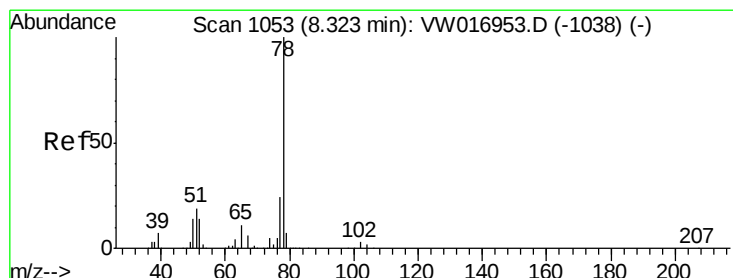
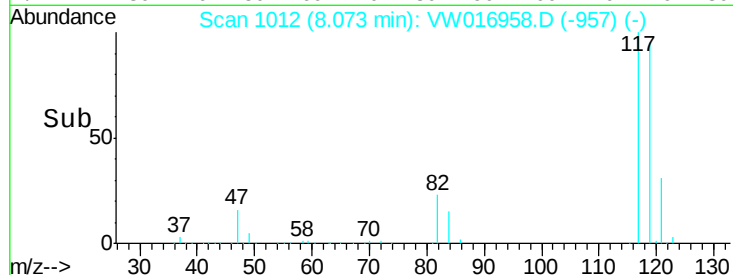
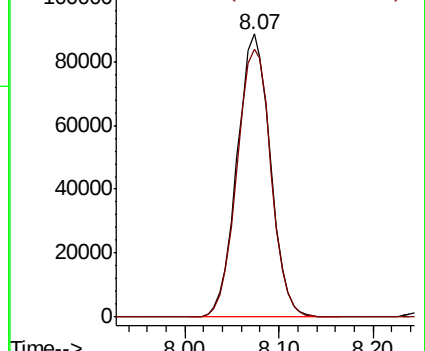
117 100

119 96.8 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.263 ug/L

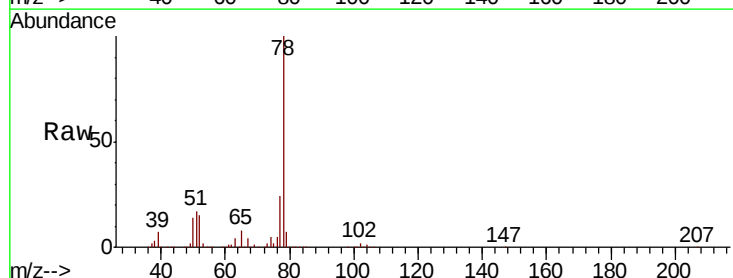
RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

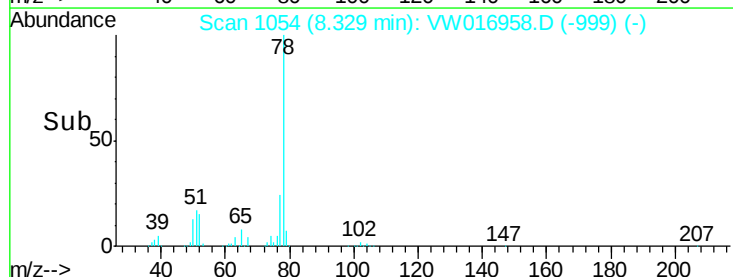
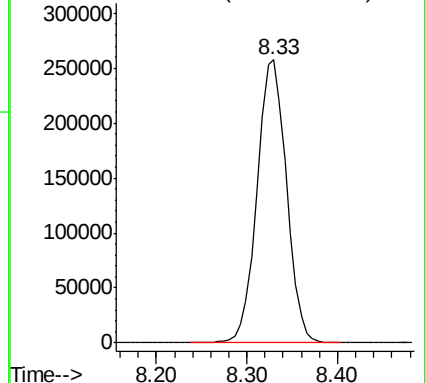
Lab File: VW016958.D

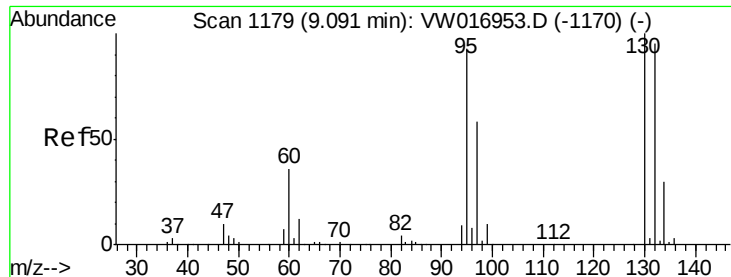
Acq: 21 Oct 2020 15:34

Tgt Ion: 78 Resp: 578384



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.626 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02520

Tot Ion: 95 Resp: 159474

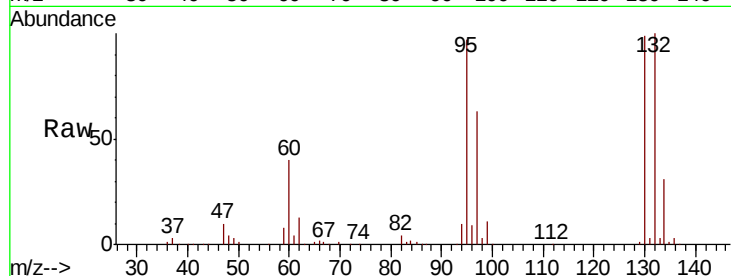
Ion Ratio Lower Upper

95 100

97 64.4 44.7 83.1

132 104.5 73.8 137.2

130 108.5 77.1 143.3

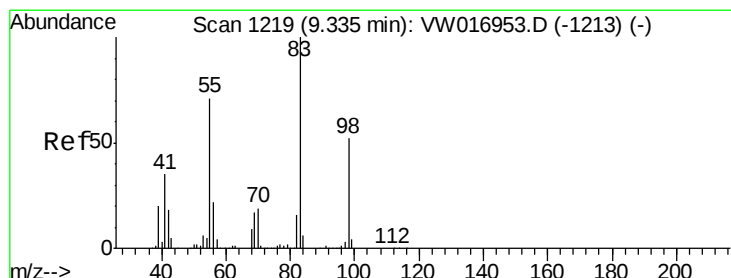
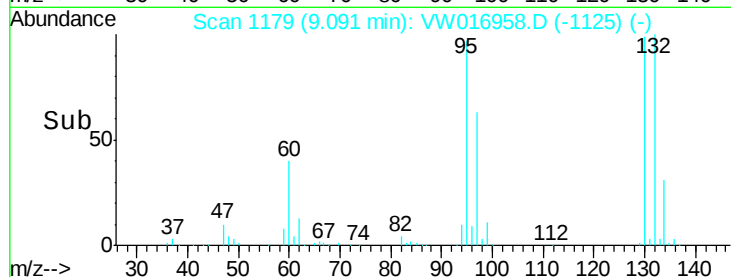
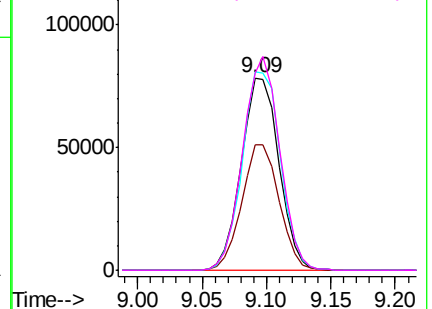


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 24.122 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

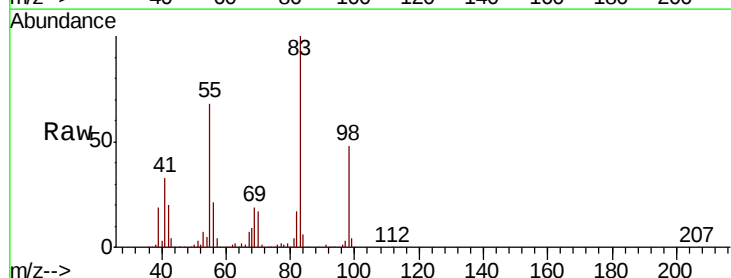
Tgt Ion: 83 Resp: 262654

Ion Ratio Lower Upper

83 100

55 68.3 54.2 81.4

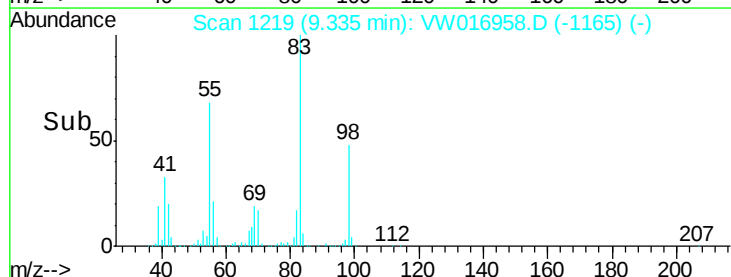
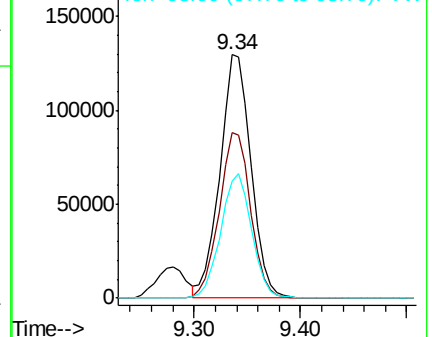
98 51.0 41.4 62.2

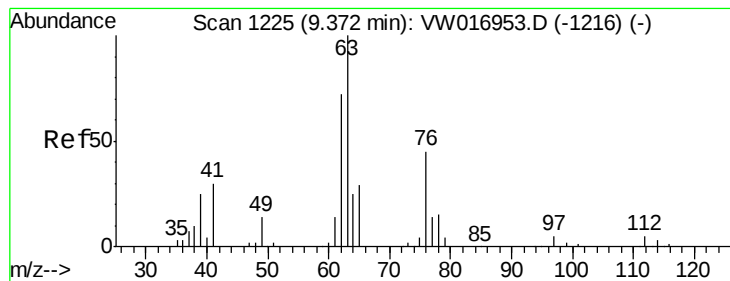


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 26.309 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

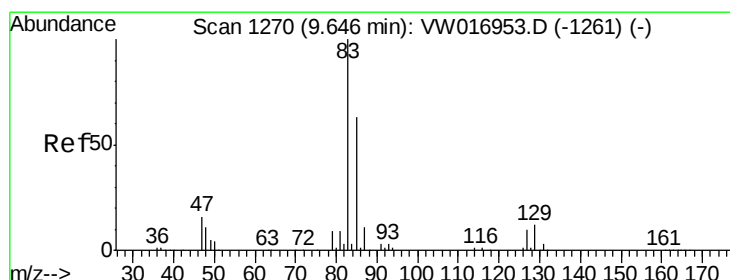
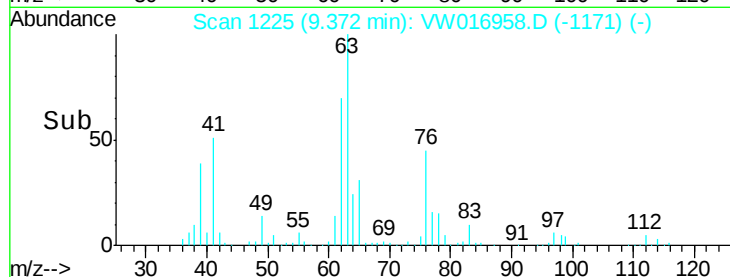
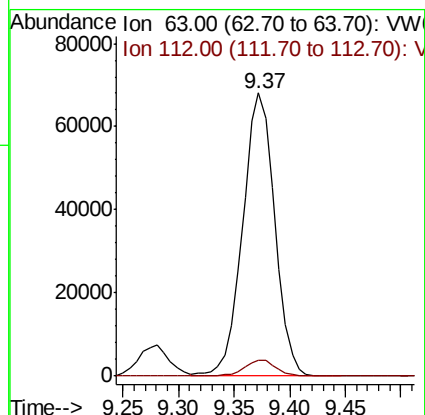
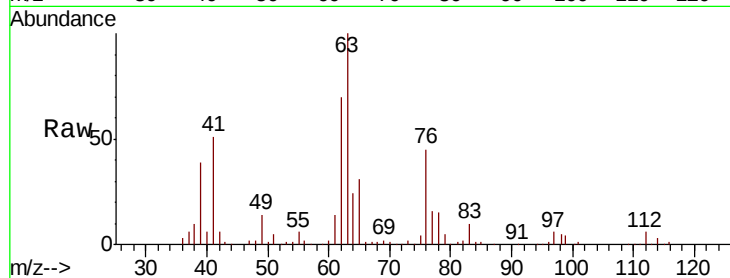
VSTD02520

Tot Ion: 63 Resp: 136199

Ion Ratio Lower Upper

63 100

112 5.6 4.5 6.7



#41

Bromodichloromethane

Concen: 25.632 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

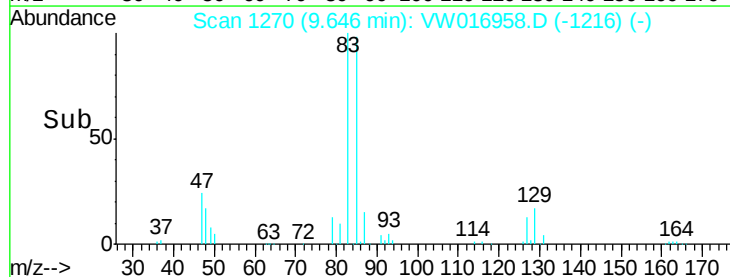
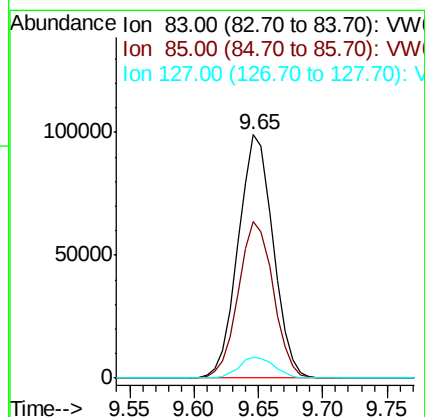
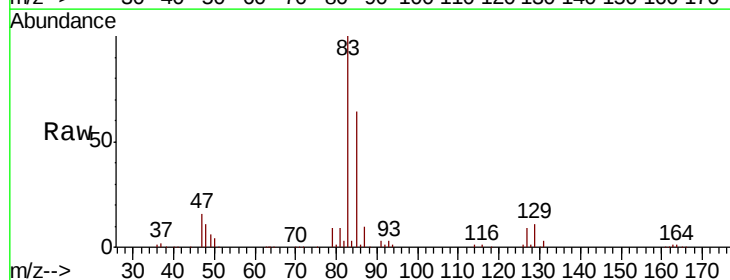
Tgt Ion: 83 Resp: 186413

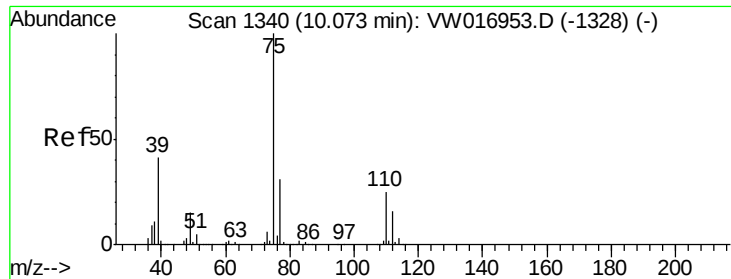
Ion Ratio Lower Upper

83 100

85 64.5 46.2 85.8

127 8.8 7.5 11.3





#42

cis-1,3-Dichloropropene

Concen: 26.088 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampled :

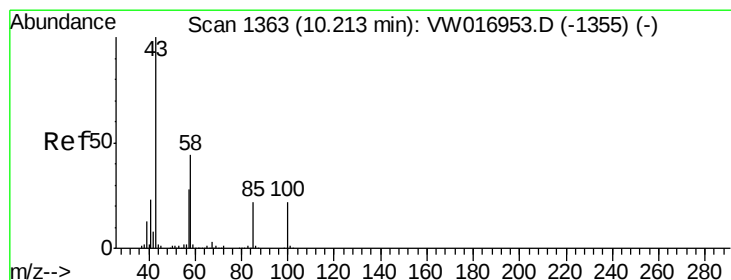
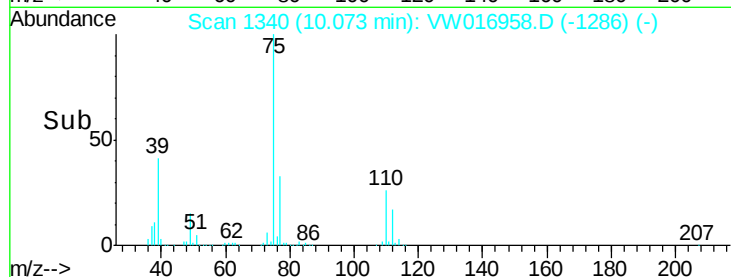
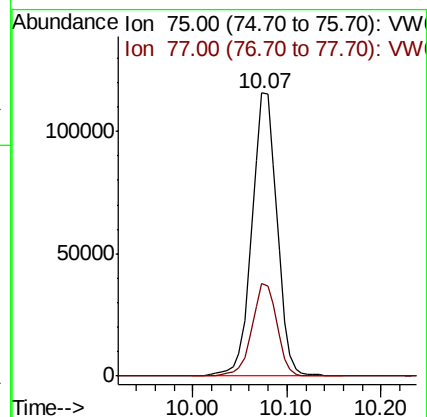
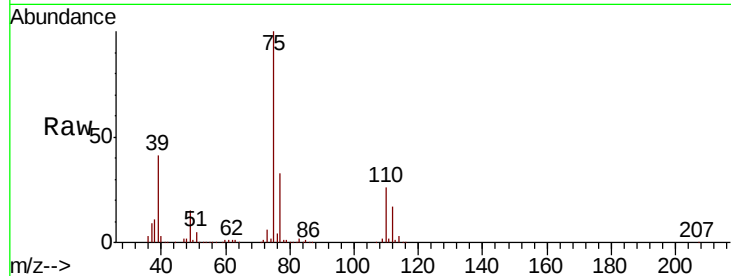
VSTD02520

Tot Ion: 75 Resp: 215326

Ion Ratio Lower Upper

75 100

77 32.7 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 61.090 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

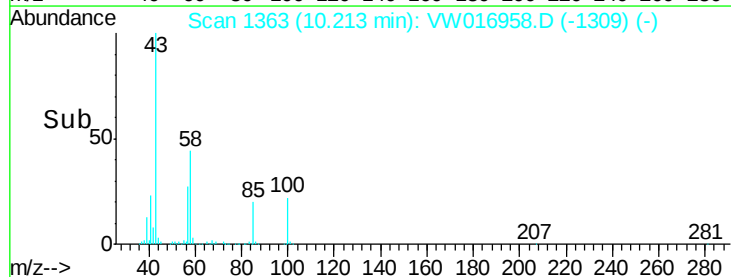
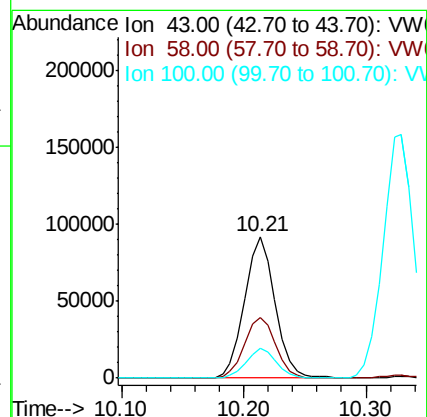
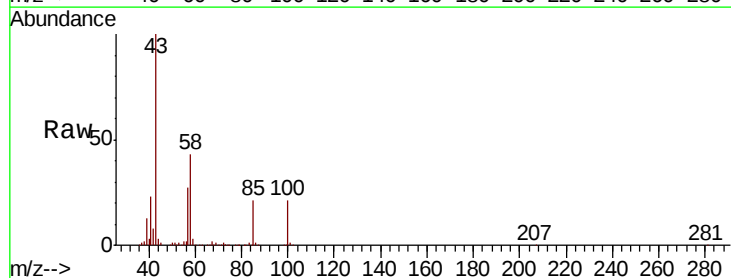
Tgt Ion: 43 Resp: 159218

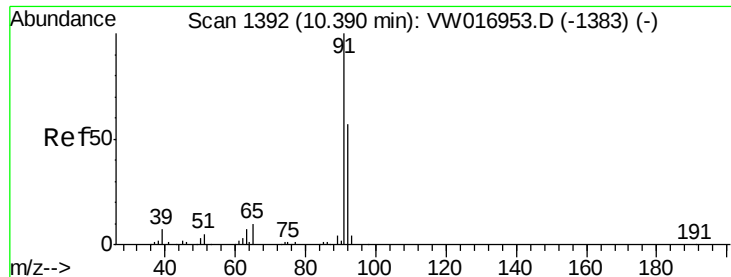
Ion Ratio Lower Upper

43 100

58 43.9 34.7 52.1

100 20.8 16.9 25.3





#44

Toluene

Concen: 25.285 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

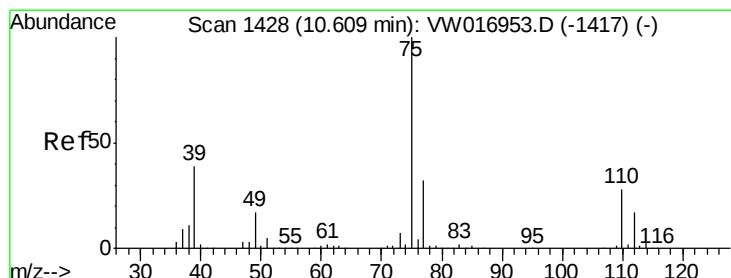
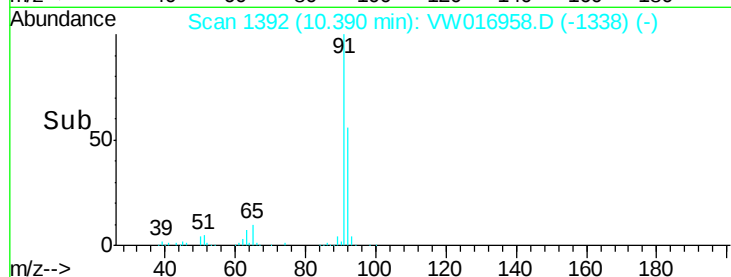
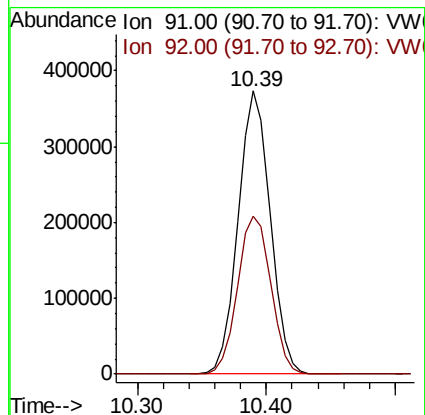
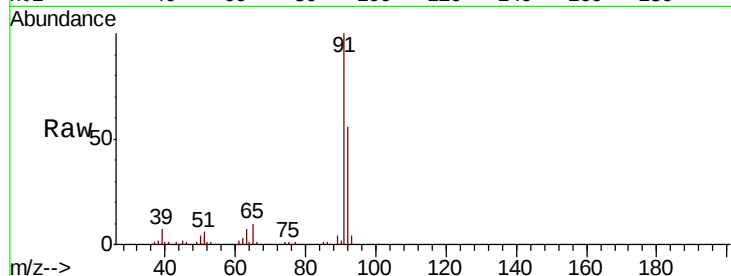
VSTD02520

Tot Ion: 91 Resp: 642167

Ion Ratio Lower Upper

91 100

92 55.9 39.4 73.2



#45

trans-1,3-Dichloropropene

Concen: 26.641 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016958.D

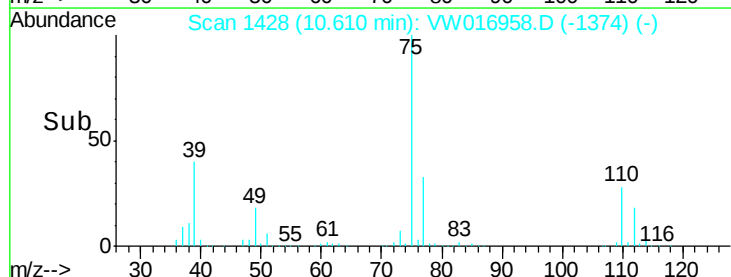
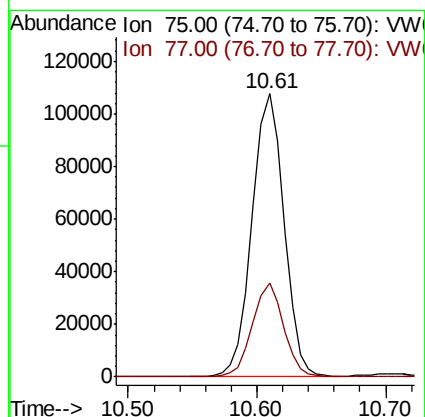
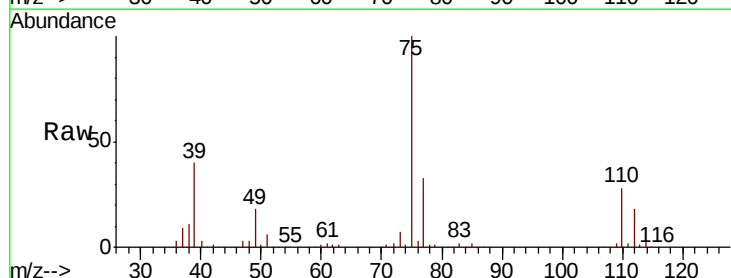
Acq: 21 Oct 2020 15:34

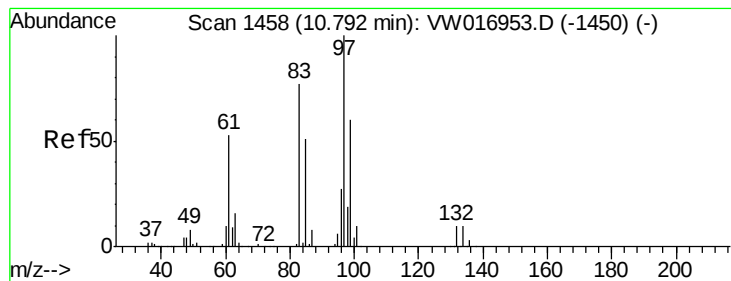
Tgt Ion: 75 Resp: 185034

Ion Ratio Lower Upper

75 100

77 33.2 22.2 41.2

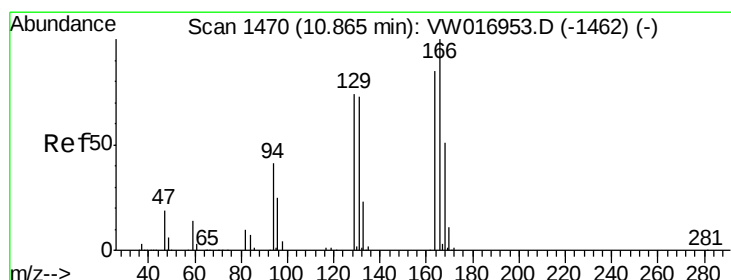
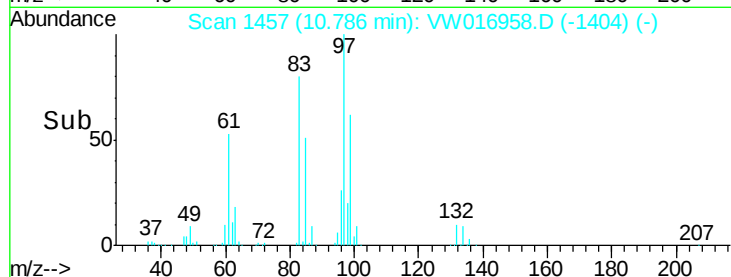
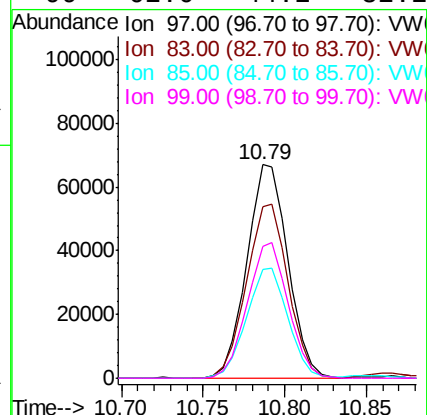
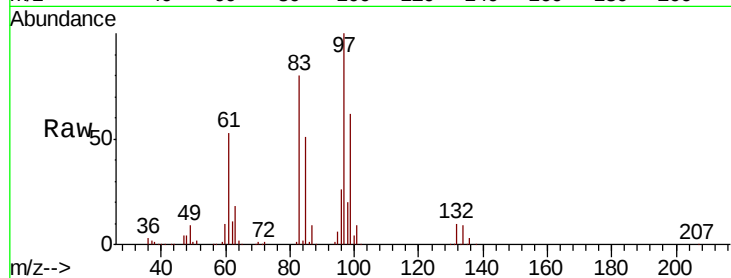




#46  
 1,1,2-Trichloroethane  
 Concen: 27.978 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

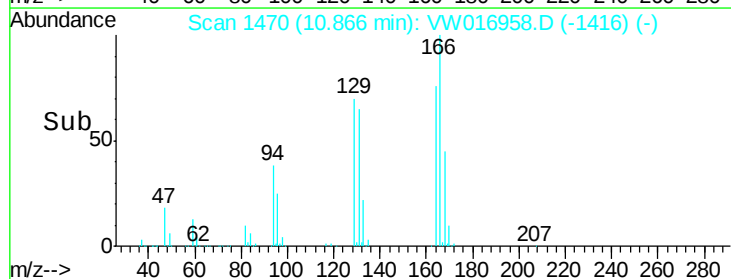
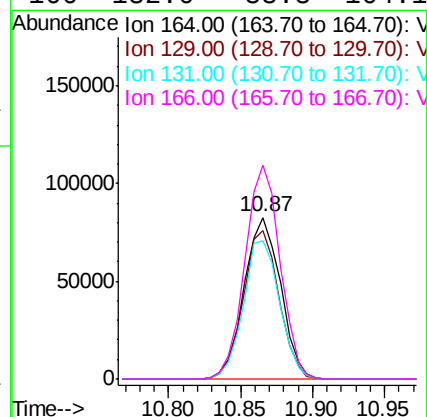
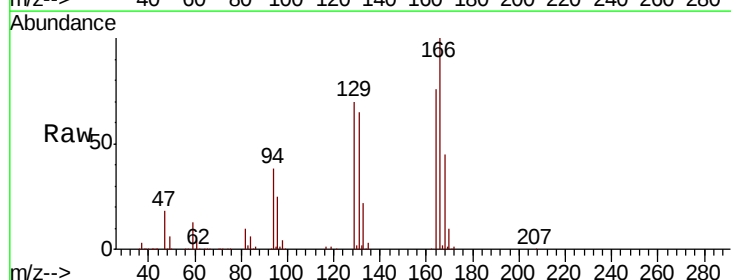
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

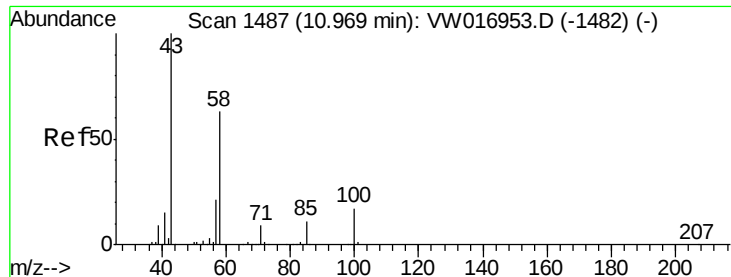
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 117739 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 80.1  | 56.8  | 105.4  |
| 85       | 51.1  | 37.0  | 68.6   |
| 99       | 62.0  | 44.2  | 82.2   |



#47  
 Tetrachloroethene  
 Concen: 24.026 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 144248 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 91.8  | 61.7  | 114.7  |
| 131      | 85.7  | 59.7  | 110.9  |
| 166      | 132.0 | 88.3  | 164.1  |

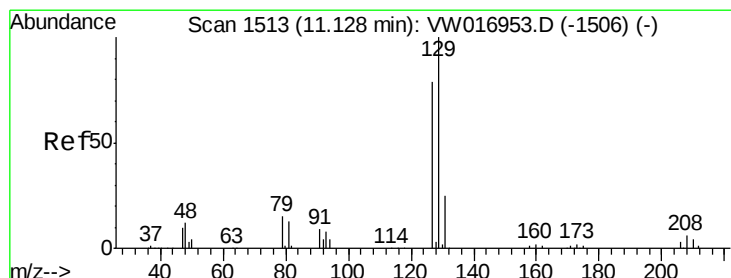
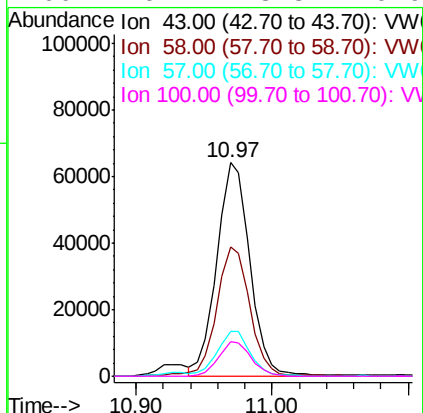
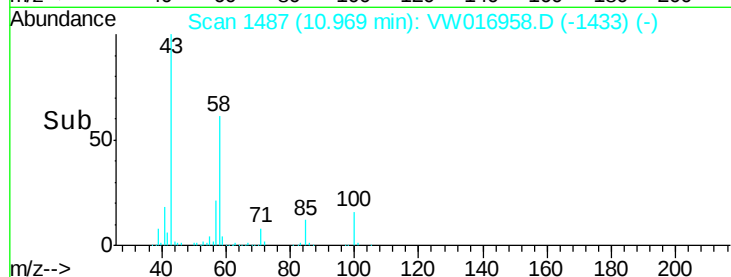
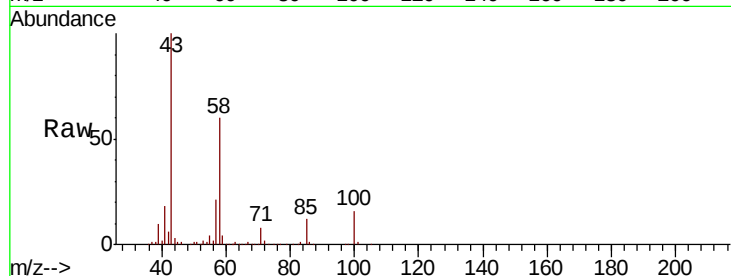




#49  
2-Hexanone  
Concen: 62.588 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW016958.D  
Acq: 21 Oct 2020 15:34

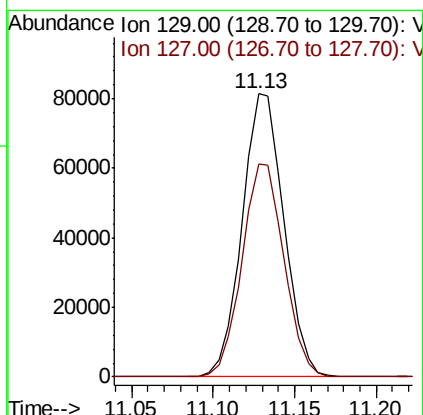
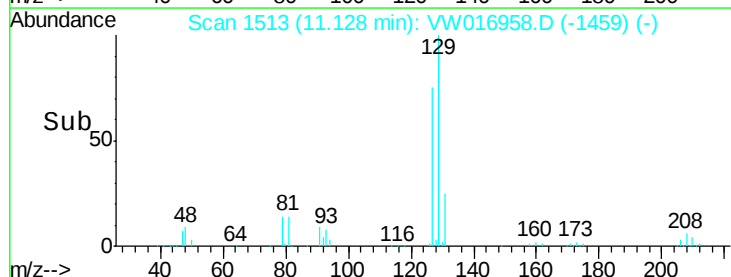
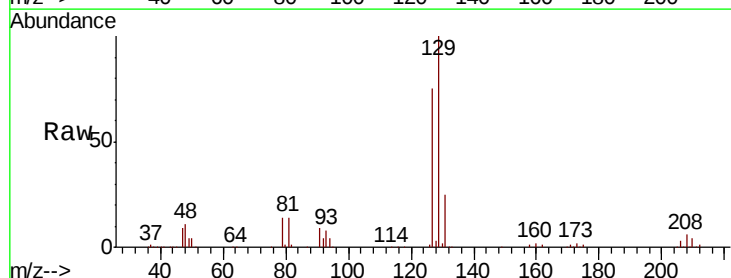
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02520

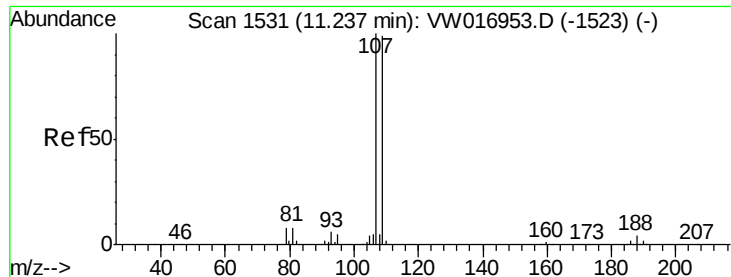
Tot Ion: 43 Resp: 107669  
Ion Ratio Lower Upper  
43 100  
58 61.0 47.1 70.7  
57 21.5 16.2 24.4  
100 16.2 13.3 19.9



#50  
Dibromochloromethane  
Concen: 27.737 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW016958.D  
Acq: 21 Oct 2020 15:34

Tgt Ion: 129 Resp: 145111  
Ion Ratio Lower Upper  
129 100  
127 75.3 54.0 100.4

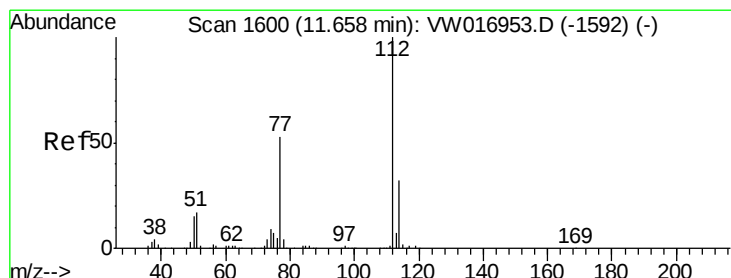
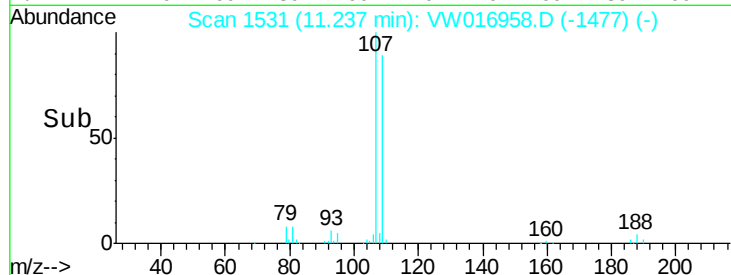
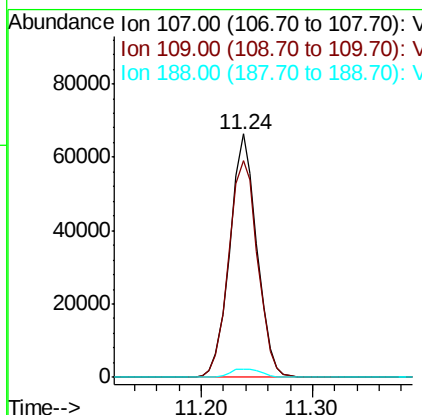
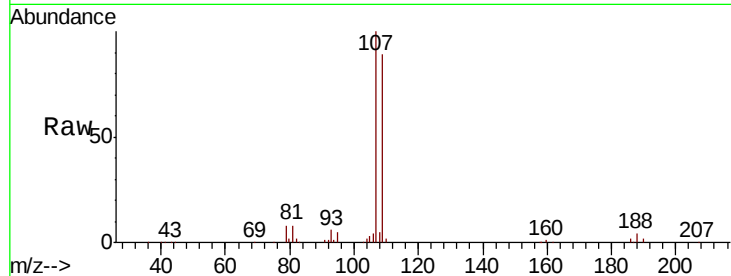




#51  
 1,2-Dibromoethane  
 Concen: 26.889 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

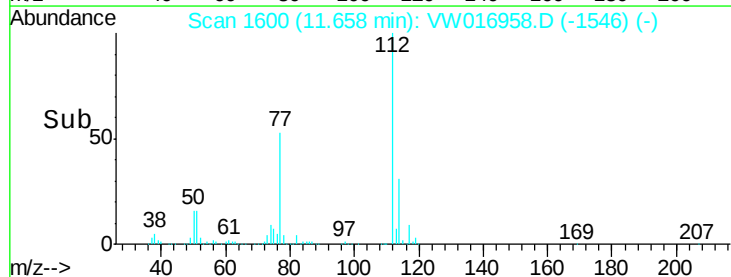
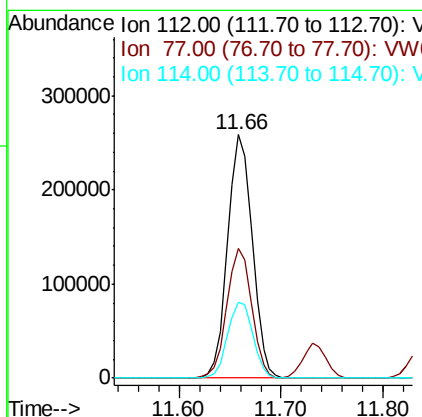
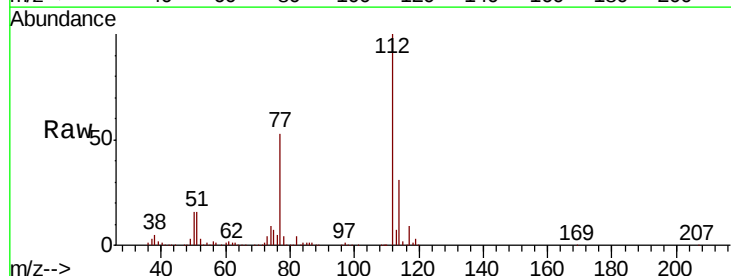
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

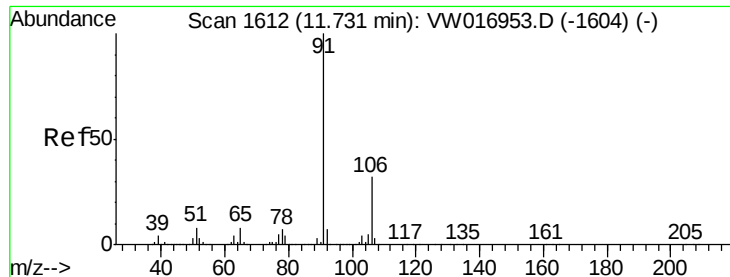
Tot Ion:107 Resp: 111202  
 Ion Ratio Lower Upper  
 107 100  
 109 89.2 68.4 127.0  
 188 3.5 3.4 5.0



#52  
 Chlorobenzene  
 Concen: 25.334 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Tgt Ion:112 Resp: 431803  
 Ion Ratio Lower Upper  
 112 100  
 77 53.5 44.0 66.0  
 114 31.2 22.3 41.3





#53

Ethylbenzene

Concen: 25.438 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

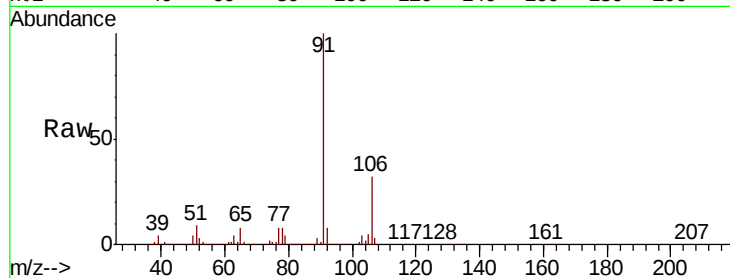
VSTD02520

Tot Ion: 91 Resp: 724745

Ion Ratio Lower Upper

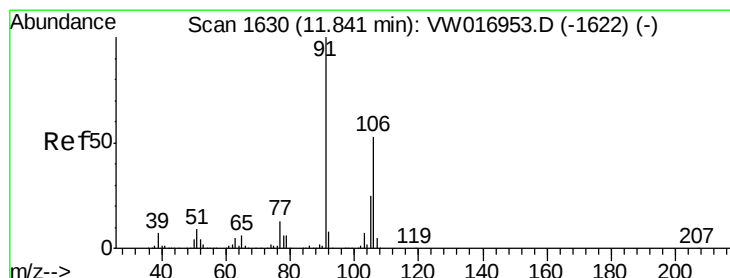
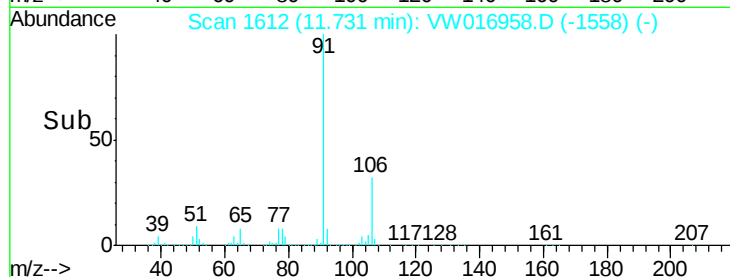
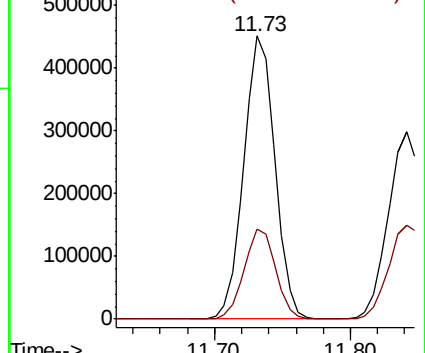
91 100

106 32.0 22.8 42.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 25.559 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016958.D

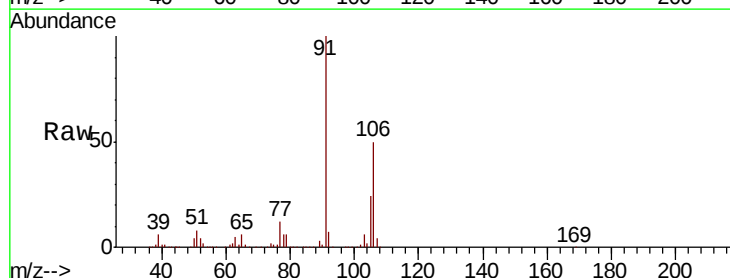
Acq: 21 Oct 2020 15:34

Tgt Ion: 106 Resp: 283217

Ion Ratio Lower Upper

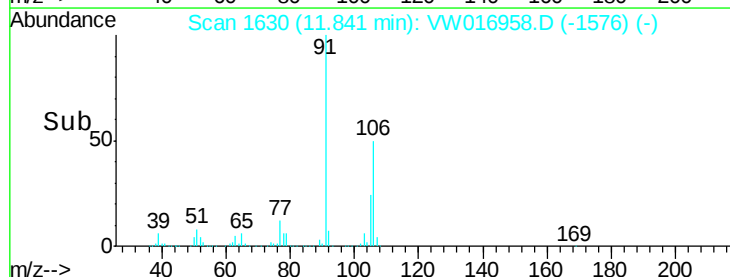
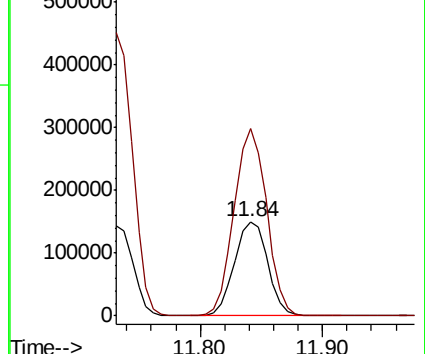
106 100

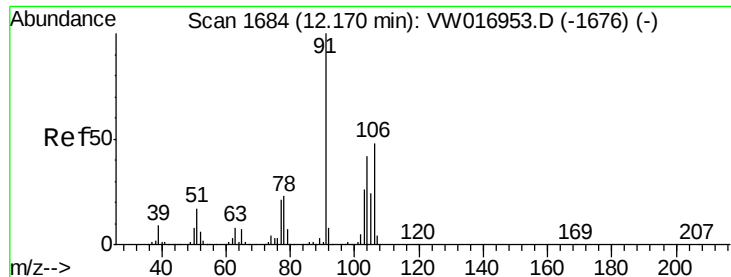
91 198.6 135.6 251.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 25.475 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampled :

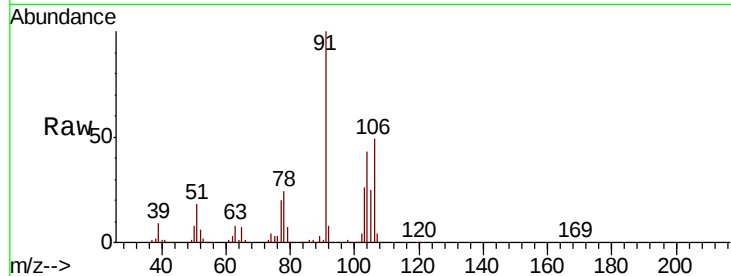
VSTD02520

Tot Ion:106 Resp: 269703

Ion Ratio Lower Upper

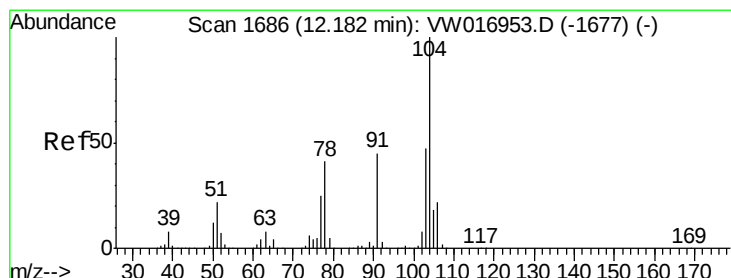
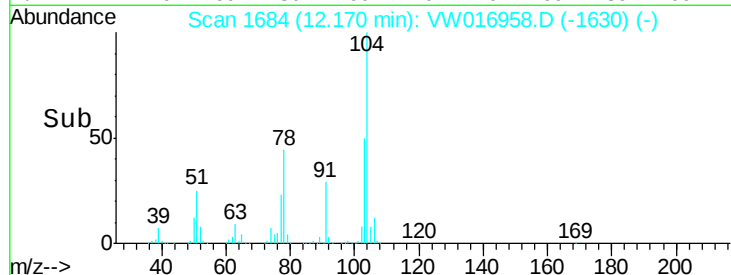
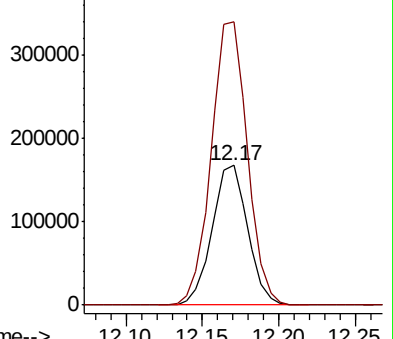
106 100

91 202.9 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.503 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016958.D

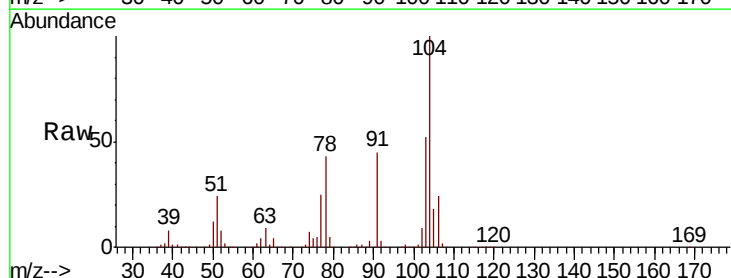
Acq: 21 Oct 2020 15:34

Tgt Ion:104 Resp: 463019

Ion Ratio Lower Upper

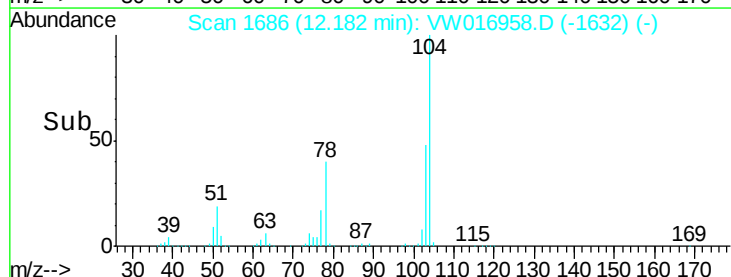
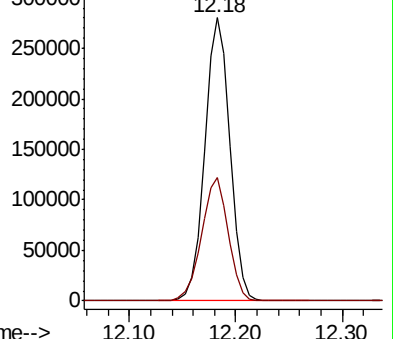
104 100

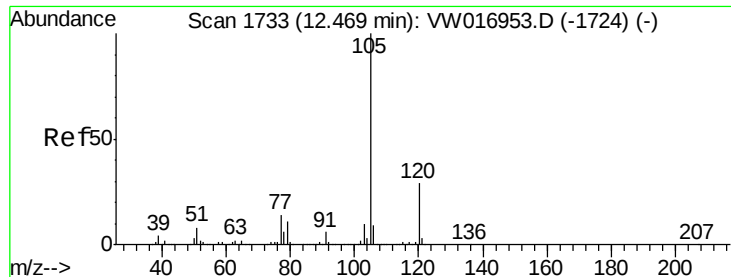
78 43.5 30.7 57.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.531 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleID :

VSTD02520

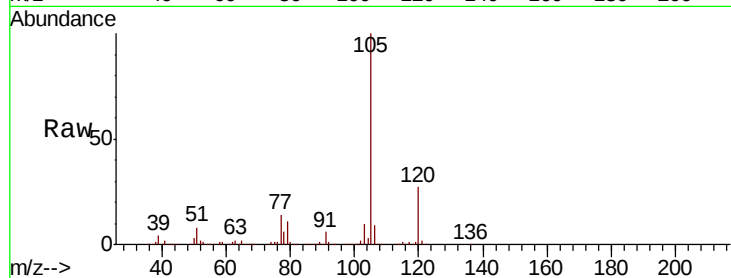
Tot Ion:105 Resp: 740145

Ion Ratio Lower Upper

105 100

120 27.4 21.5 32.3

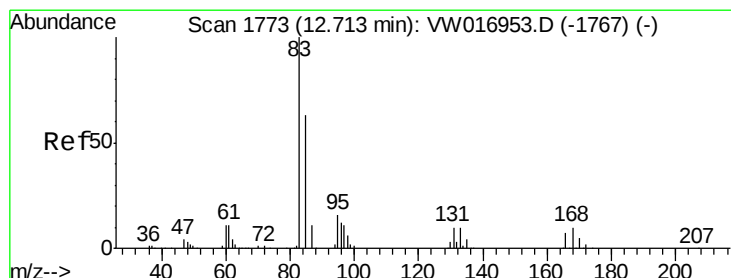
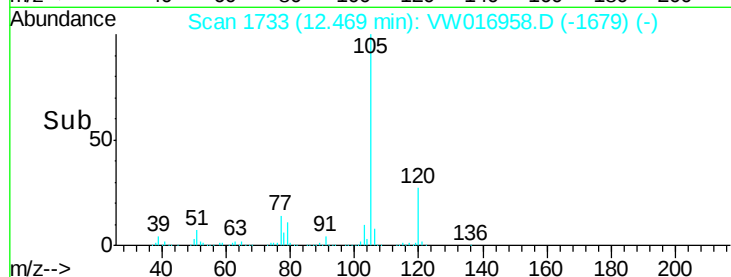
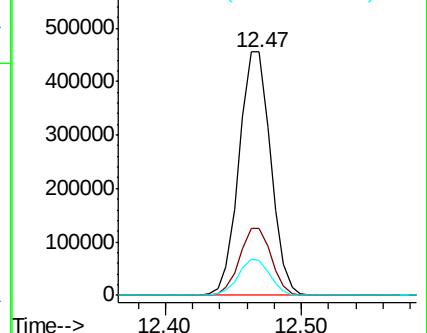
77 14.6 11.4 17.2



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: 29.489 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

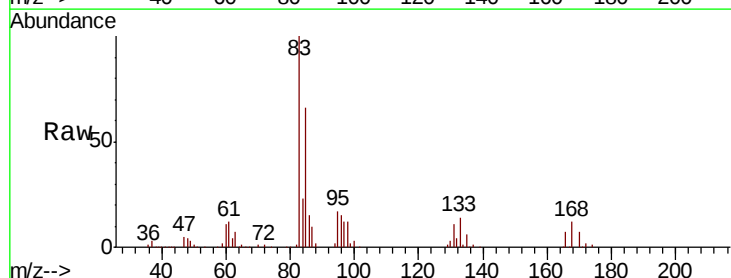
Tgt Ion: 83 Resp: 137151

Ion Ratio Lower Upper

83 100

85 66.3 43.3 80.5

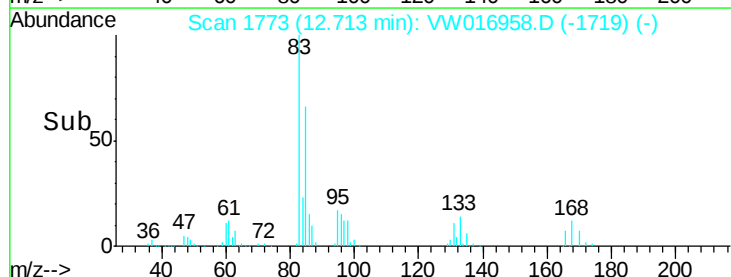
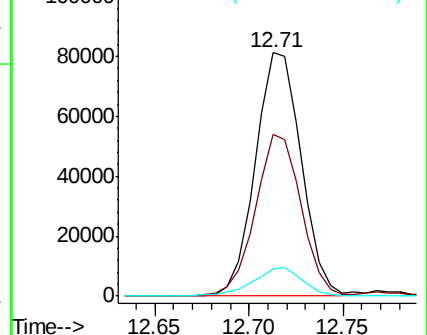
131 11.2 9.0 13.4

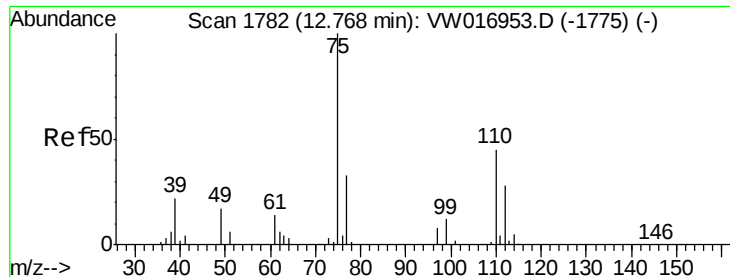


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 29.457 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

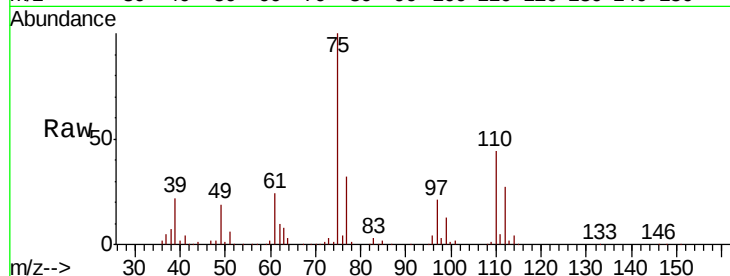
VSTD02520

Tot Ion: 75 Resp: 99248

Ion Ratio Lower Upper

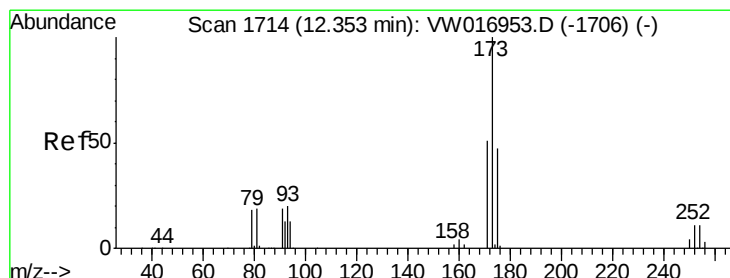
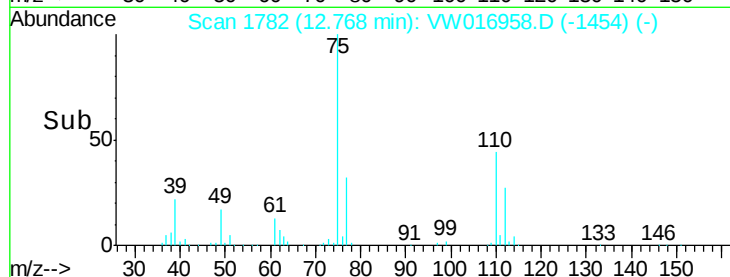
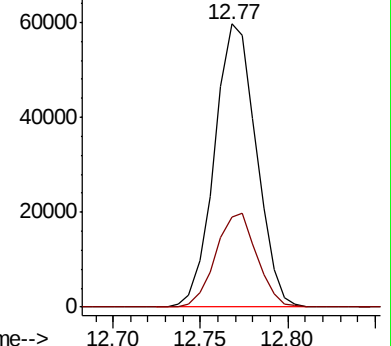
75 100

77 33.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 26.900 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

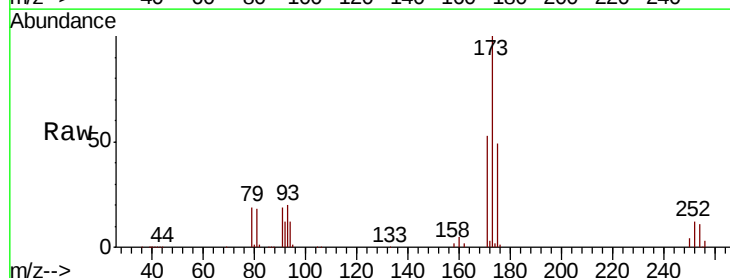
Tgt Ion: 173 Resp: 84700

Ion Ratio Lower Upper

173 100

175 49.8 39.9 59.9

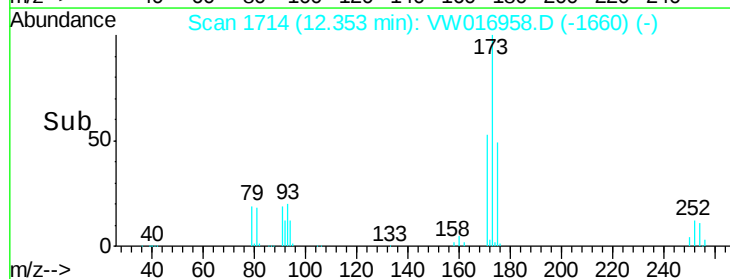
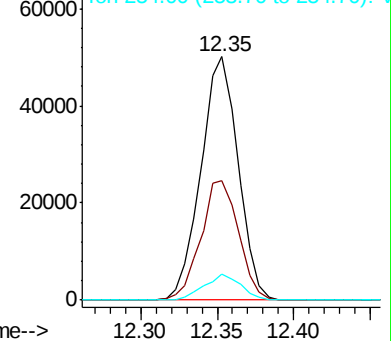
254 10.3 8.7 13.1

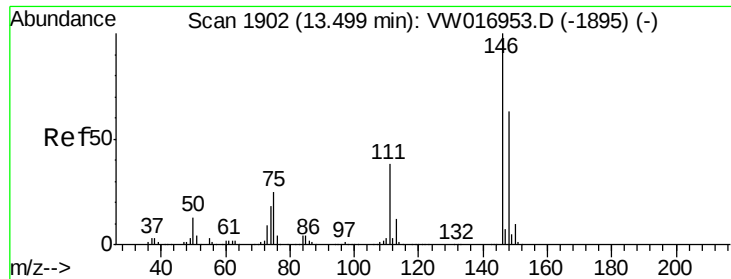


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

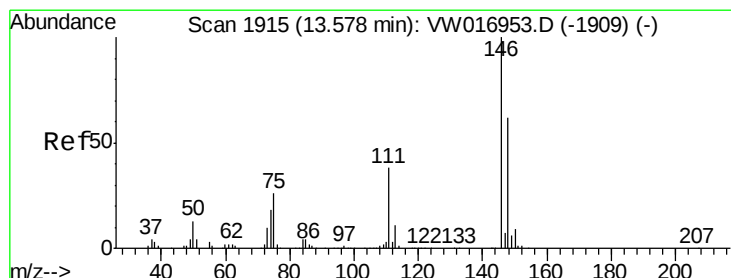
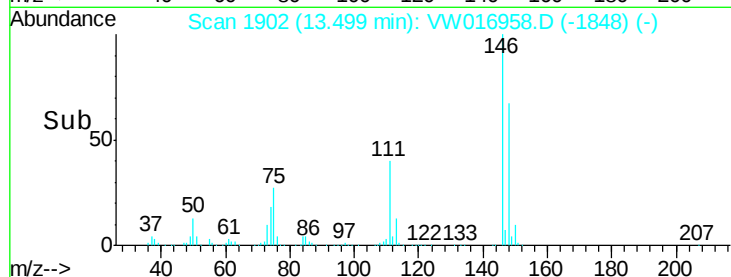
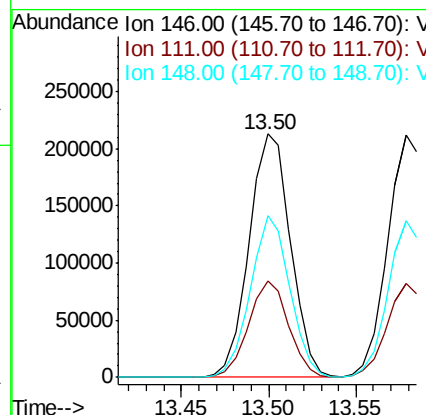
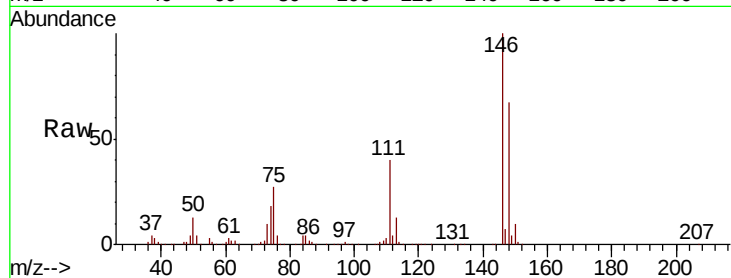




#63  
 1,3-Dichlorobenzene  
 Concen: 24.645 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

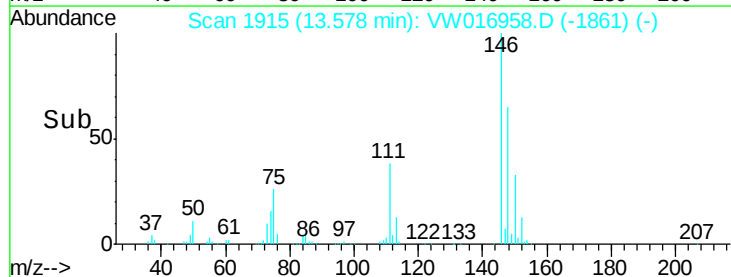
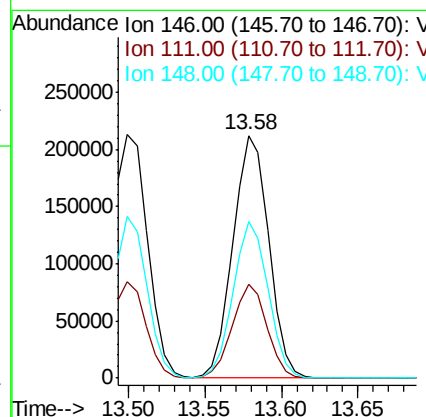
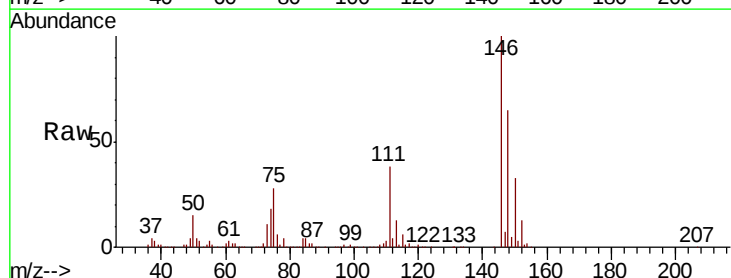
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

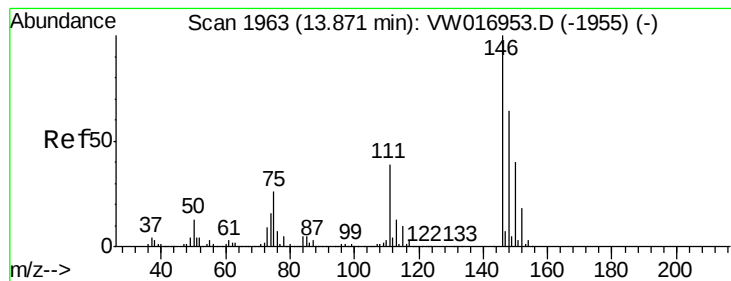
Tot Ion:146 Resp: 351080  
 Ion Ratio Lower Upper  
 146 100  
 111 39.6 26.9 49.9  
 148 66.6 45.7 84.9



#64  
 1,4-Dichlorobenzene  
 Concen: 24.104 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Tgt Ion:146 Resp: 343391  
 Ion Ratio Lower Upper  
 146 100  
 111 38.5 26.0 48.4  
 148 64.6 43.9 81.5





#65

1,2-Dichlorobenzene

Concen: 25.046 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02520

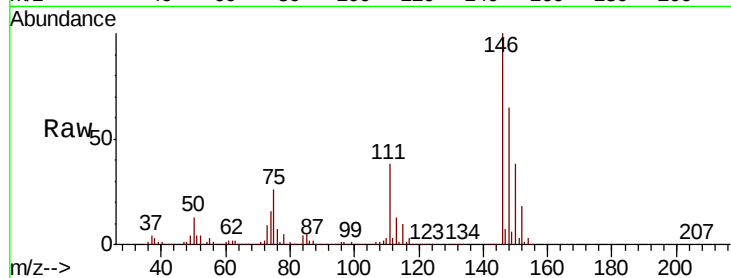
Tot Ion:146 Resp: 319455

Ion Ratio Lower Upper

146 100

111 37.7 32.1 48.1

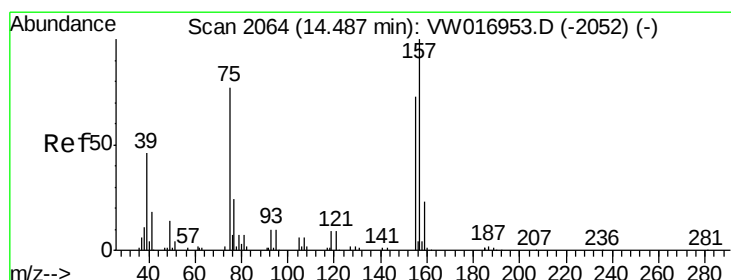
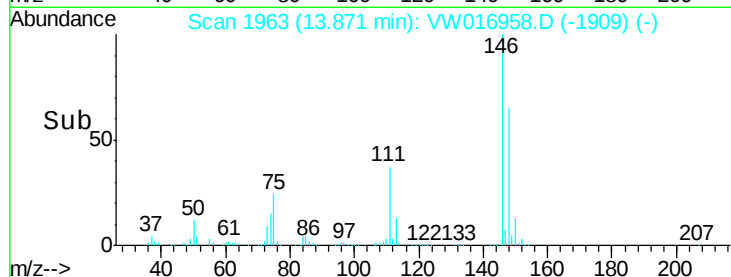
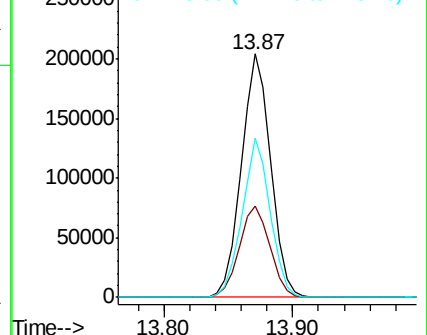
148 65.5 51.8 77.6



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: 27.284 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

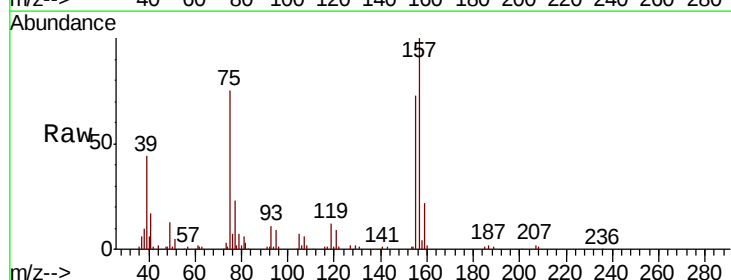
Tgt Ion: 75 Resp: 21109

Ion Ratio Lower Upper

75 100

157 134.0 100.5 150.7

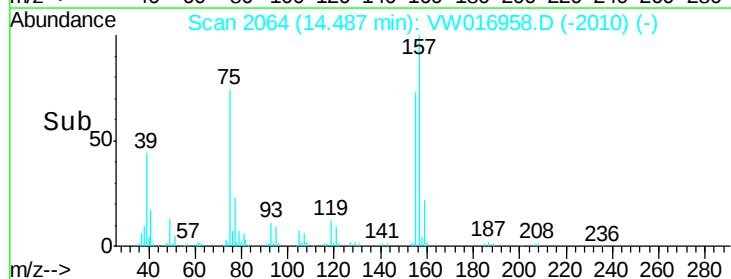
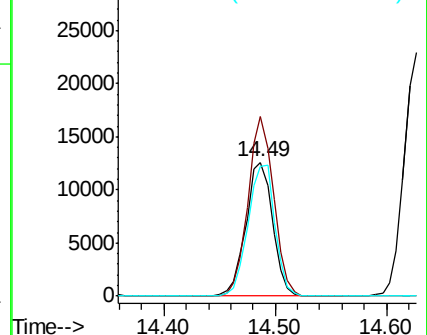
155 97.4 74.7 112.1

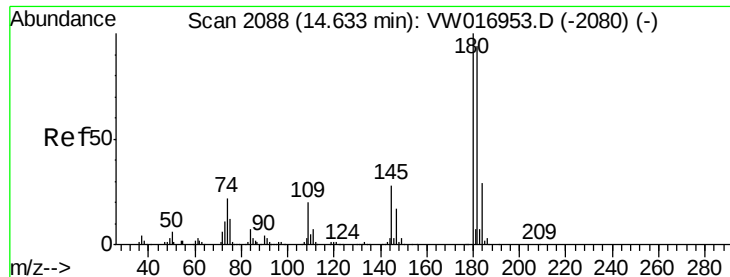


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

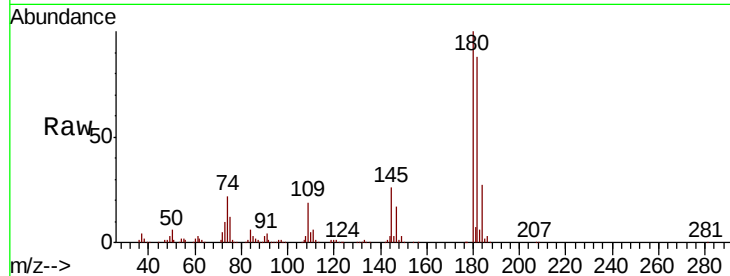




#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.349 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.0  | 79.0  | 118.6 |
| 184     | 29.9  | 24.9  | 37.3  |
| 145     | 28.5  | 23.0  | 34.4  |



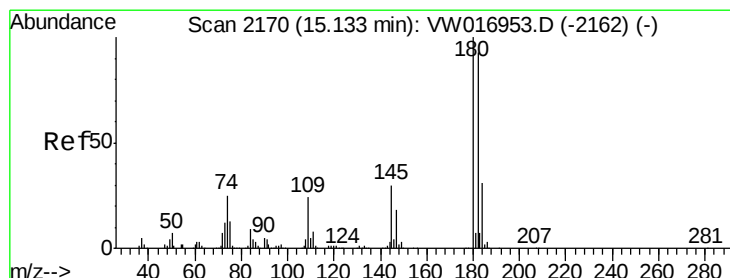
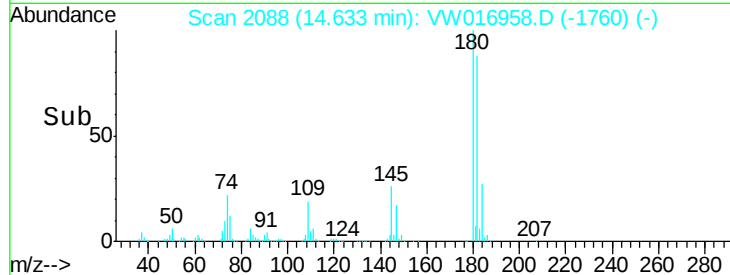
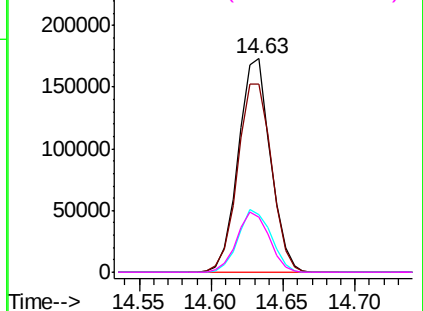
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

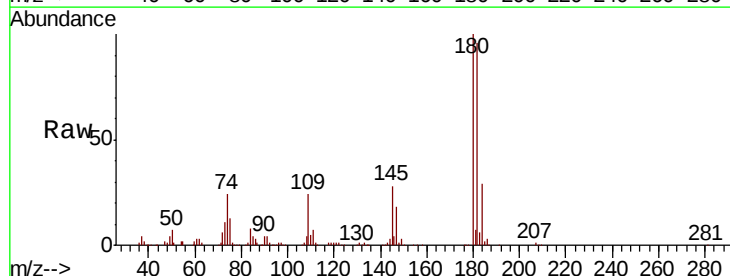
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 25.131 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW016958.D  
 Acq: 21 Oct 2020 15:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 74.2  | 111.2 |
| 145     | 29.1  | 23.4  | 35.0  |

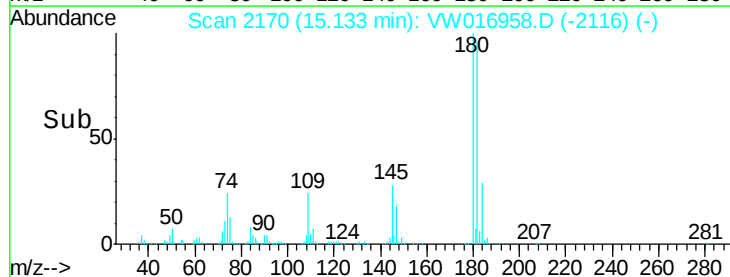
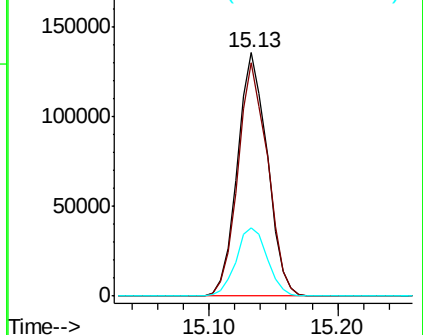


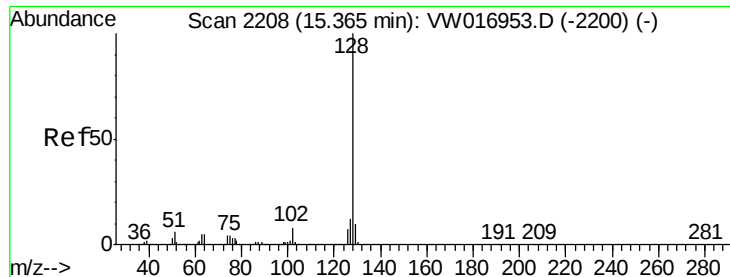
Abundance

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: 28.284 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02520

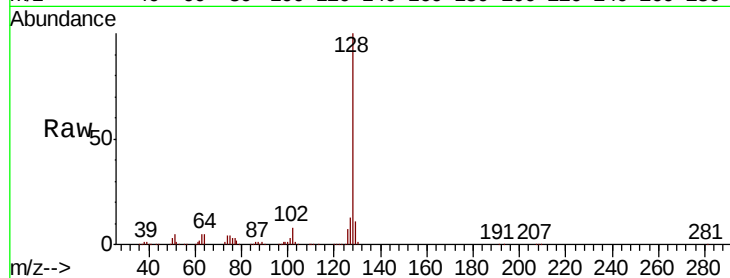
Tot Ion:128 Resp: 407351

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

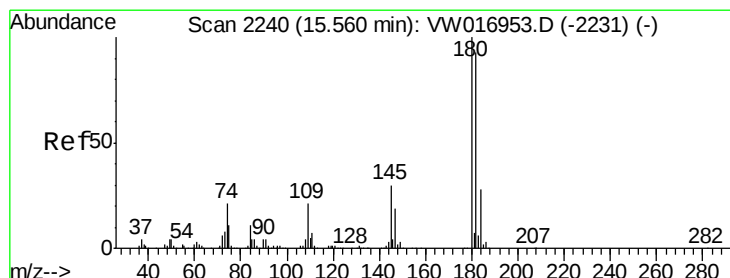
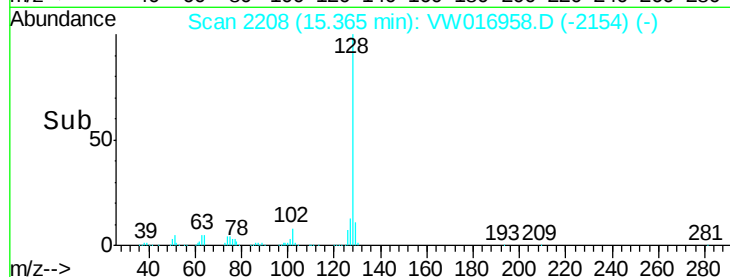
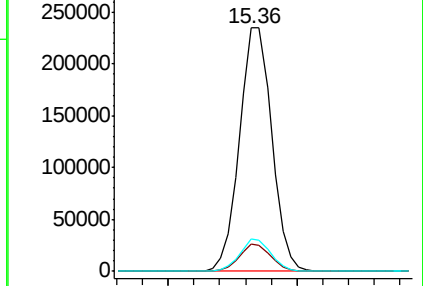
127 12.7 10.1 15.1



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: 25.281 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016958.D

Acq: 21 Oct 2020 15:34

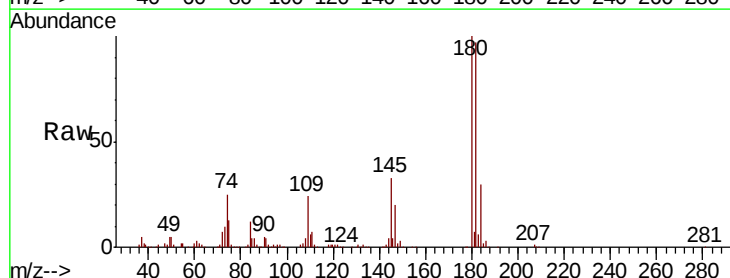
Tgt Ion:180 Resp: 188932

Ion Ratio Lower Upper

180 100

182 95.9 74.1 111.1

145 32.0 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

