

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110419\  
 Data File : VW013909.D  
 Acq On : 04 Nov 2019 09:46  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02516

Quant Time: Nov 05 03:48:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 04 16:40:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 339723   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 323153   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 191778   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 118865   | 22.49    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.96% |
| 7) Chloroethane-d5             | 2.89   | 69    | 100810   | 23.87    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.48% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 249196   | 23.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 92.56% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 74889    | 39.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 78.74% |
| 24) Chloroform-d               | 7.65   | 84    | 246831   | 23.06    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.24% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 126871   | 22.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 88.08% |
| 29) Benzene-d6                 | 8.27   | 84    | 519414   | 23.99    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.96% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 150939   | 23.03    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 92.12% |
| 37) Toluene-d8                 | 10.32  | 98    | 484748   | 23.60    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 94.40% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 67334    | 22.50    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.00% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 57856    | 38.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 77.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 119676   | 20.65    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 82.60% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 171176   | 22.55    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.20% |

## Target Compounds

|                                |      |     |        |               | Qvalue |
|--------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 84295  | 23.085 ug/L   | 99     |
| 3) Chloromethane               | 2.21 | 50  | 90248  | 21.551 ug/L   | 99     |
| 5) Vinyl chloride              | 2.37 | 62  | 143713 | 24.027 ug/L   | 97     |
| 6) Bromomethane                | 2.78 | 94  | 92066  | 24.471 ug/L   | 98     |
| 8) Chloroethane                | 2.92 | 64  | 84168  | 24.788 ug/L   | 95     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 91959  | 30.181 ug/L   | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 136571 | 23.356 ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 139978 | 23.875 ug/L   | 91     |
| 13) Acetone                    | 4.11 | 43  | 68298  | 36.867 ug/L   | 98     |
| 14) Carbon disulfide           | 4.39 | 76  | 427200 | 25.494 ug/L   | 100    |
| 15) Methyl Acetate             | 4.66 | 43  | 65017  | 20.268 ug/L   | 99     |
| 16) Methylene chloride         | 4.92 | 84  | 141659 | 22.301 ug/L   | 96     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 178215 | 24.028 ug/L # | 88     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 145567 | 23.823 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 251955 | 24.286 ug/L   | 97     |
| 21) 2-Butanone                 | 7.17 | 43  | 93806  | 36.889 ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 159080 | 24.757 ug/L   | 100    |

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 Response via : Initial Calibration

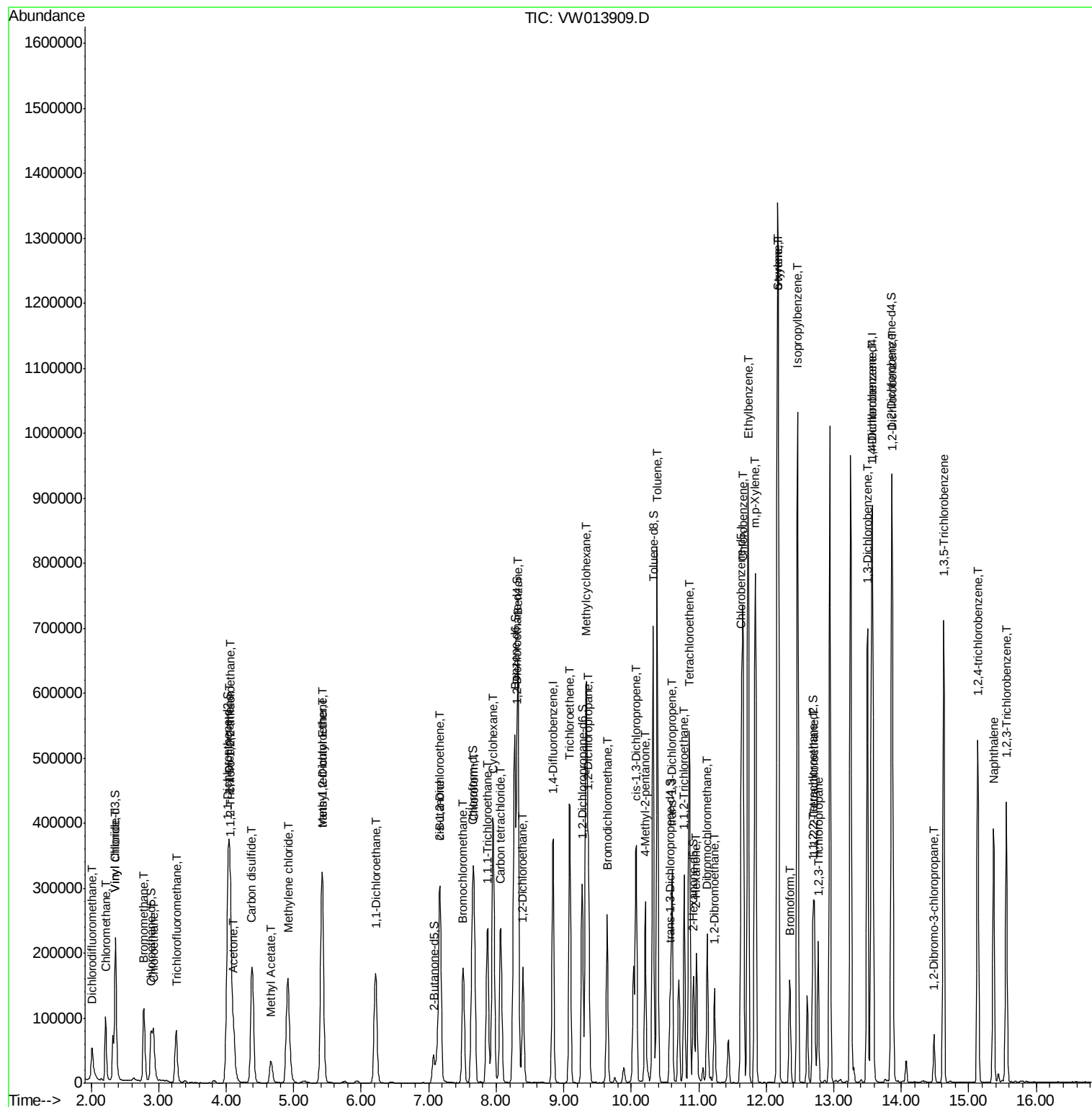
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 68087    | 22.535 | ug/L   | 98       |
| 25) Chloroform                 | 7.67  | 83   | 247000   | 23.681 | ug/L   | 98       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 156509   | 22.687 | ug/L   | 99       |
| 30) Cyclohexane                | 7.95  | 56   | 245805   | 25.206 | ug/L   | 100      |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 198744   | 25.115 | ug/L   | 99       |
| 32) Carbon tetrachloride       | 8.06  | 117  | 191944   | 24.804 | ug/L   | 99       |
| 34) Benzene                    | 8.32  | 78   | 586812   | 25.012 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 152205   | 24.611 | ug/L   | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 268902   | 24.772 | ug/L   | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 139171   | 24.169 | ug/L   | 99       |
| 41) Bromodichloromethane       | 9.64  | 83   | 175937   | 24.304 | ug/L   | 97       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 223057   | 24.580 | ug/L   | 100      |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 180086   | 40.665 | ug/L   | 99       |
| 44) Toluene                    | 10.38 | 91   | 624266   | 24.762 | ug/L   | 97       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 180681   | 24.095 | ug/L   | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 104763   | 22.784 | ug/L   | 98       |
| 47) Tetrachloroethene          | 10.86 | 164  | 138961   | 24.406 | ug/L   | 93       |
| 49) 2-Hexanone                 | 10.96 | 43   | 126870   | 38.997 | ug/L   | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 126612   | 23.720 | ug/L   | 96       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 101529   | 22.336 | ug/L   | 97       |
| 52) Chlorobenzene              | 11.66 | 112  | 391814   | 24.099 | ug/L   | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 690010   | 24.588 | ug/L   | 98       |
| 54) m,p-Xylene                 | 11.84 | 106  | 265319   | 24.533 | ug/L   | 93       |
| 55) o-xylene                   | 12.16 | 106  | 250347   | 24.489 | ug/L   | 98       |
| 56) Styrene                    | 12.18 | 104  | 427919   | 24.258 | ug/L   | 94       |
| 57) Isopropylbenzene           | 12.46 | 105  | 676262   | 24.533 | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 121610   | 21.000 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 91148    | 20.964 | ug/L   | 100      |
| 62) Bromoform                  | 12.35 | 173  | 78742    | 22.583 | ug/L   | 98       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 314549   | 23.684 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 312220   | 23.452 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 281085   | 23.407 | ug/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 18601    | 19.336 | ug/L # | 83       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 242319   | 24.225 | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 191965   | 23.705 | ug/L   | 98       |
| 69) Naphthalene                | 15.36 | 128  | 341553   | 22.231 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 169363   | 22.695 | ug/L   | 99       |

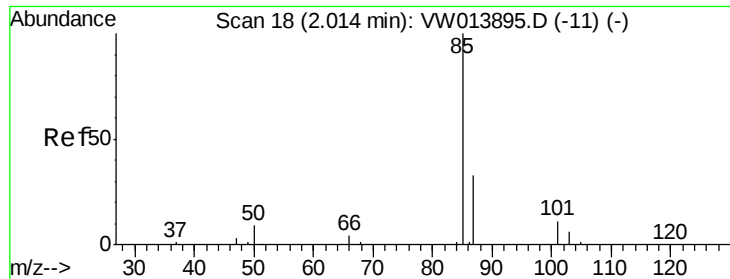
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.085 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

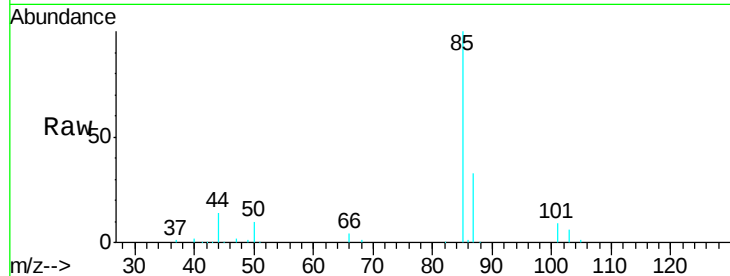
VSTD02516

Tgt Ion: 85 Resp: 84295

Ion Ratio Lower Upper

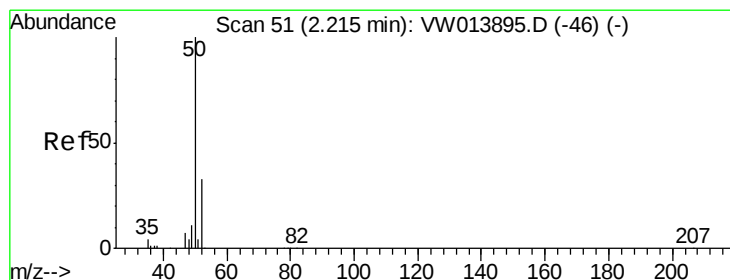
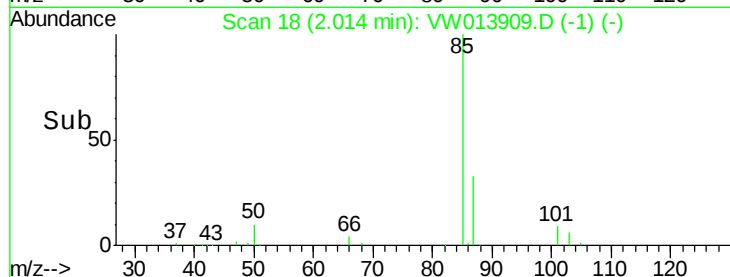
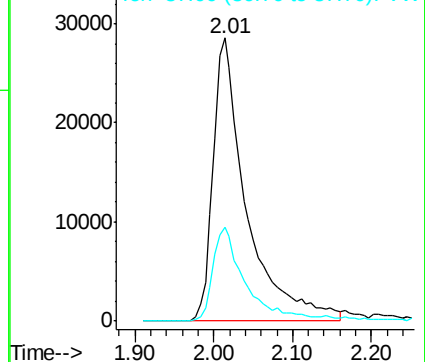
85 100

87 31.5 21.6 40.2



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.551 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013909.D

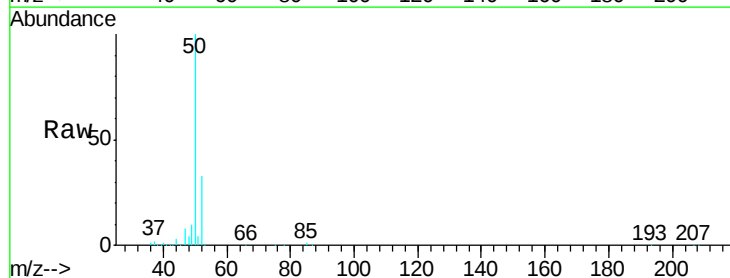
Acq: 04 Nov 2019 09:46

Tgt Ion: 50 Resp: 90248

Ion Ratio Lower Upper

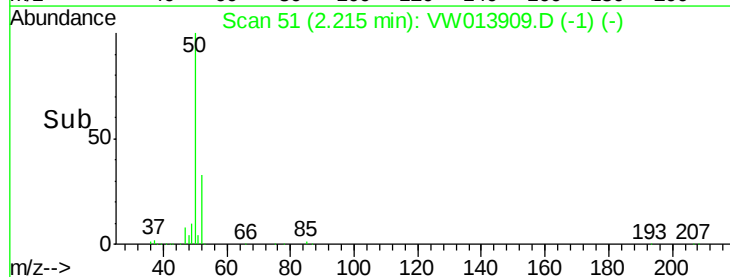
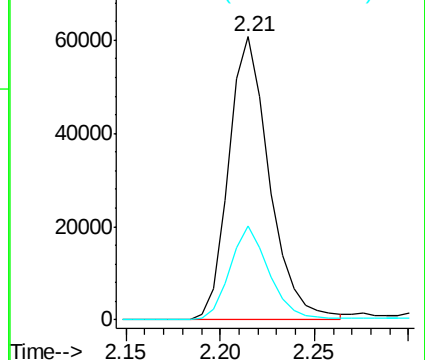
50 100

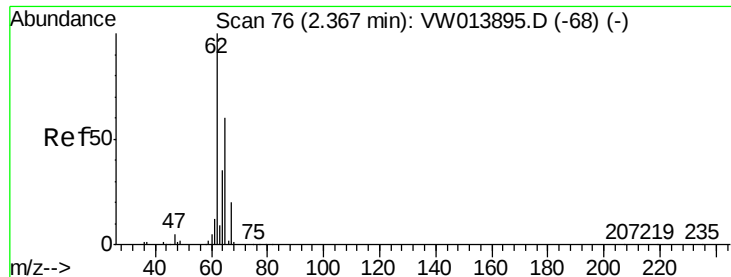
52 33.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.027 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

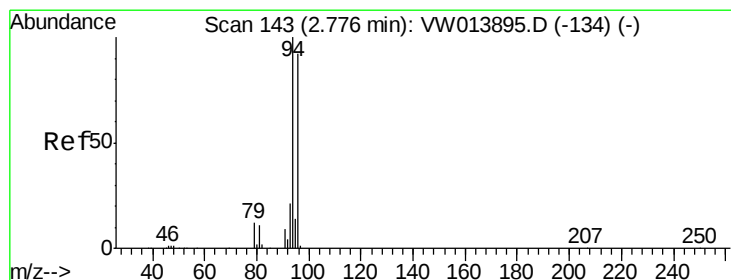
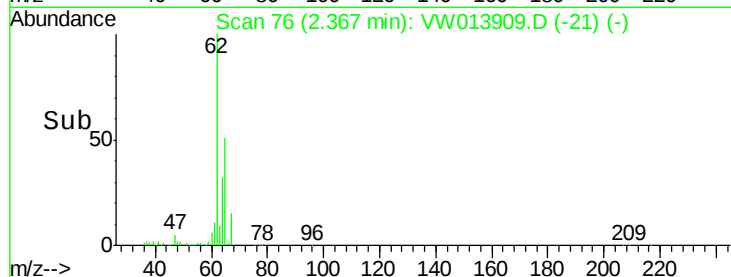
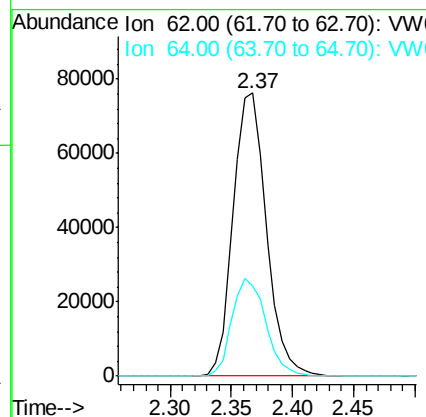
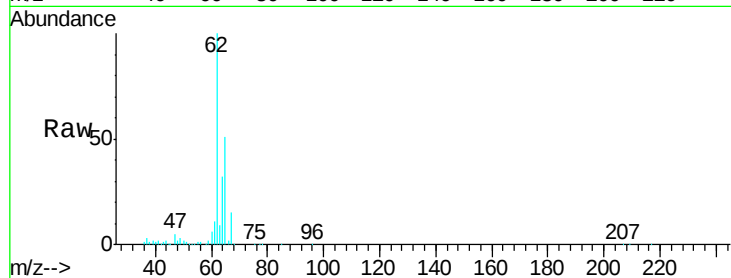
VSTD02516

Tgt Ion: 62 Resp: 143713

Ion Ratio Lower Upper

62 100

64 31.7 23.3 43.3



#6

Bromomethane

Concen: 24.471 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW013909.D

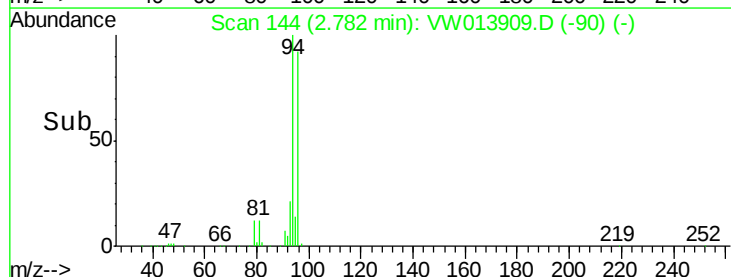
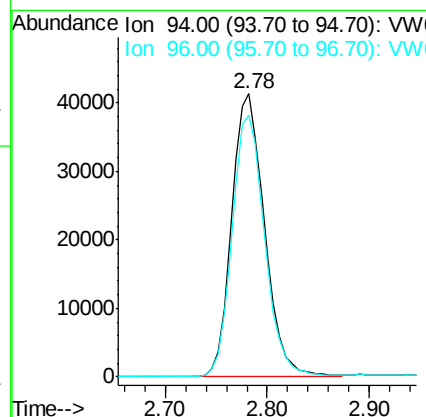
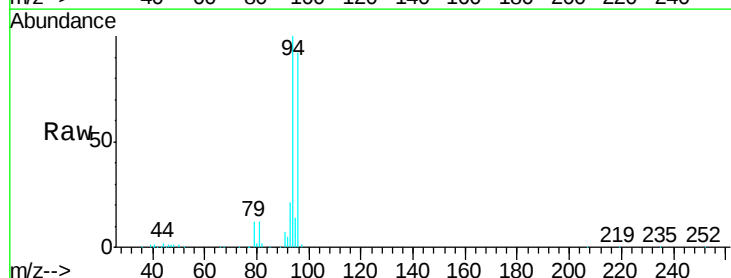
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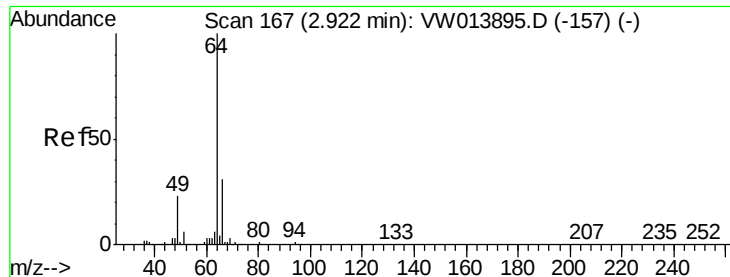
Tgt Ion: 94 Resp: 92066

Ion Ratio Lower Upper

94 100

96 92.4 9.5 179.7





#8

Chloroethane

Concen: 24.788 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

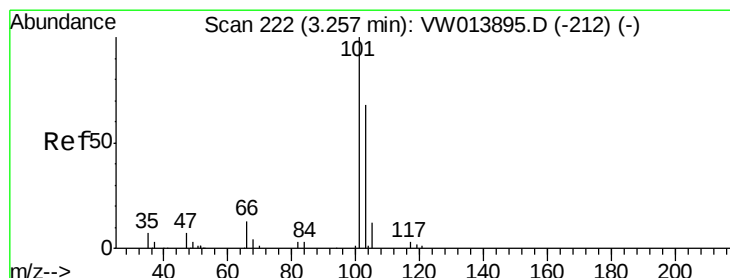
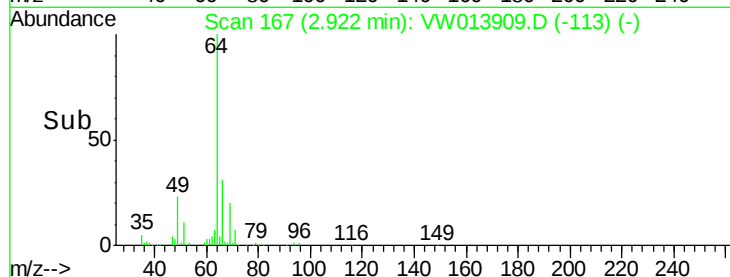
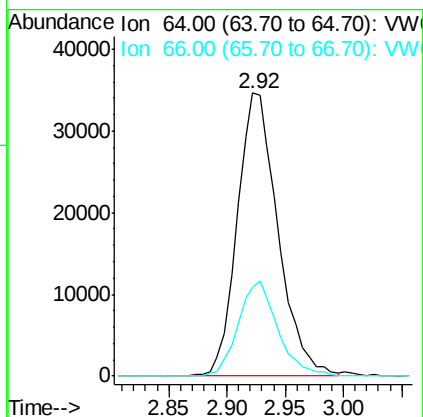
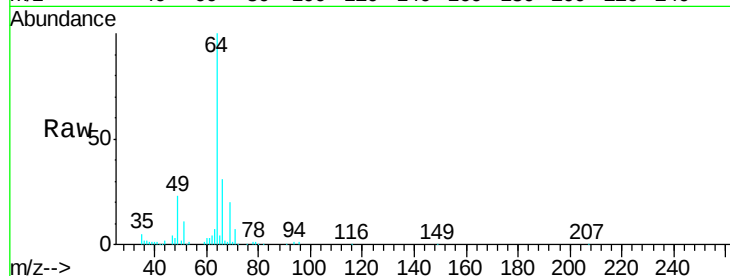
VSTD02516

Tgt Ion: 64 Resp: 84168

Ion Ratio Lower Upper

64 100

66 31.4 24.1 44.7



#9

Trichlorofluoromethane

Concen: 30.181 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW013909.D

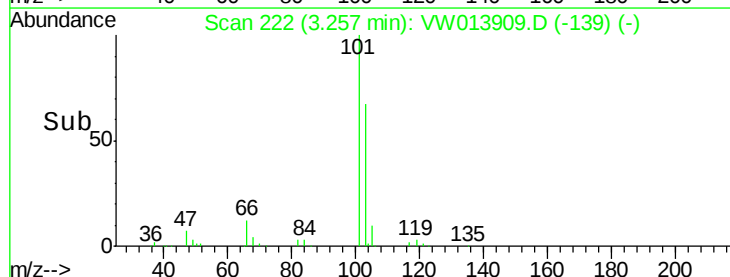
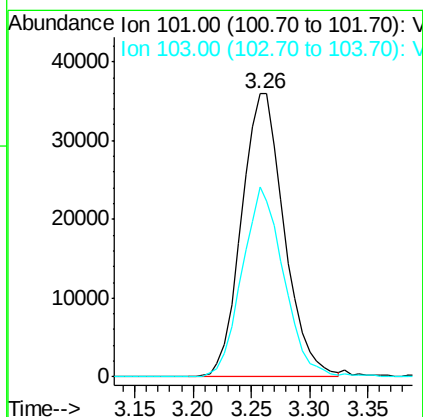
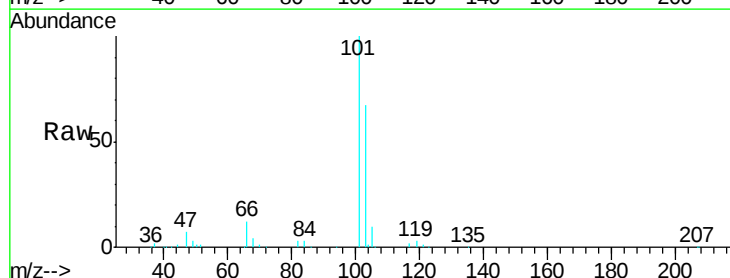
Acq: 04 Nov 2019 09:46

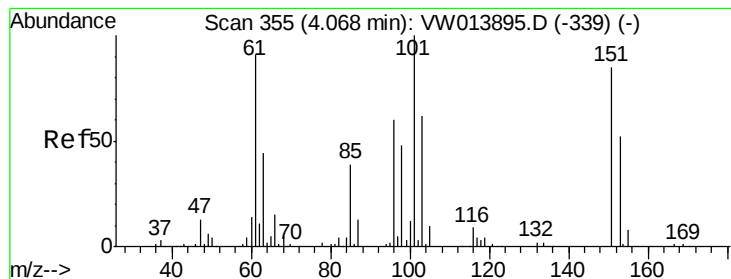
Tgt Ion: 101 Resp: 91959

Ion Ratio Lower Upper

101 100

103 65.7 44.9 83.3





#11

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

Concen: 23.356 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW013909.D

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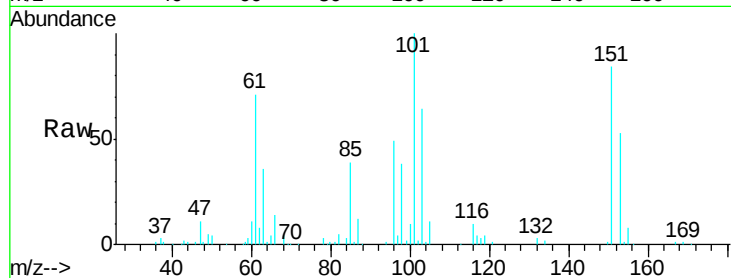
Tgt Ion: 101 Resp: 136571

Ion Ratio Lower Upper

101 100

85 40.0 30.9 46.3

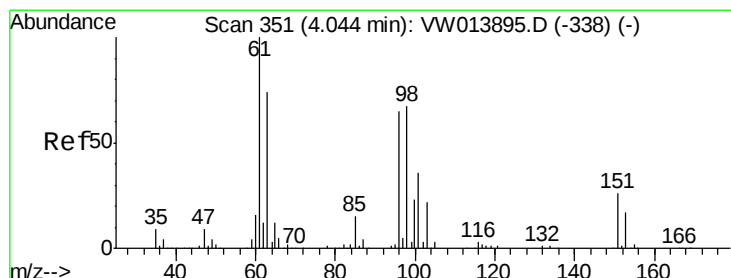
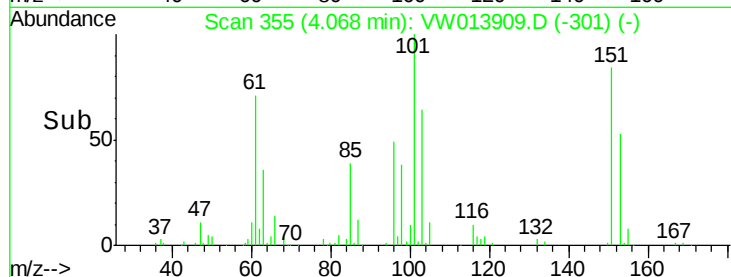
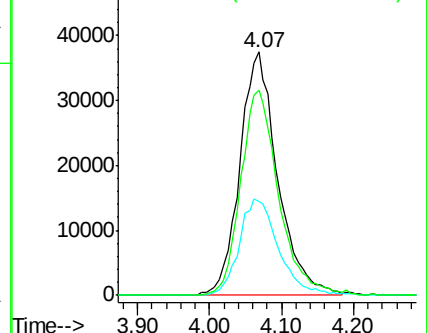
151 84.3 66.3 99.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.875 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

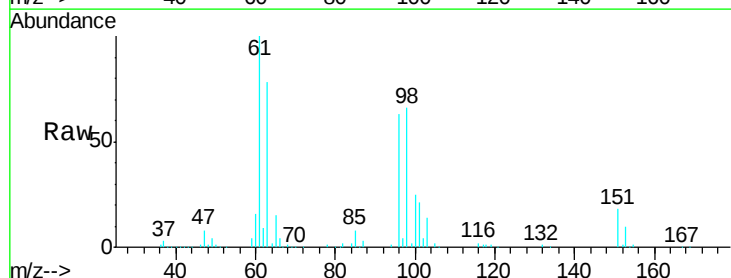
Tgt Ion: 96 Resp: 139978

Ion Ratio Lower Upper

96 100

61 158.2 115.1 213.8

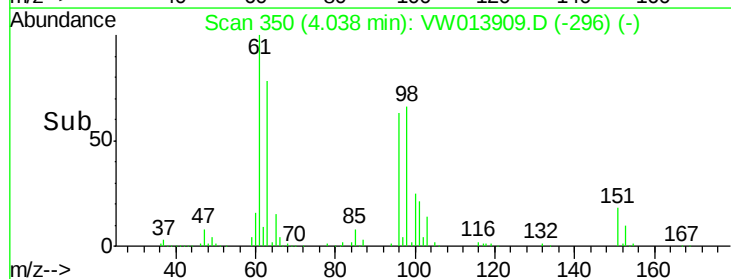
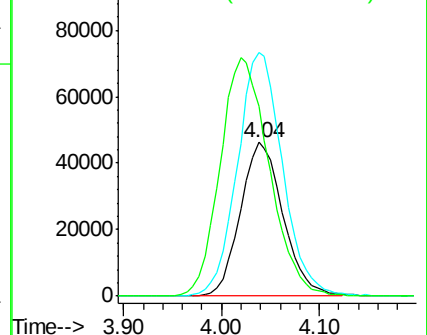
63 123.1 97.4 180.8

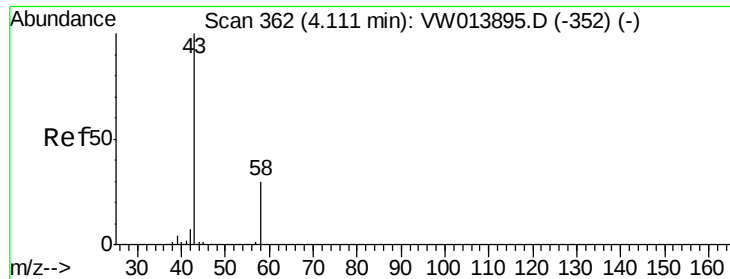


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 36.867 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

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MSVOA\_W

ClientSampleId :

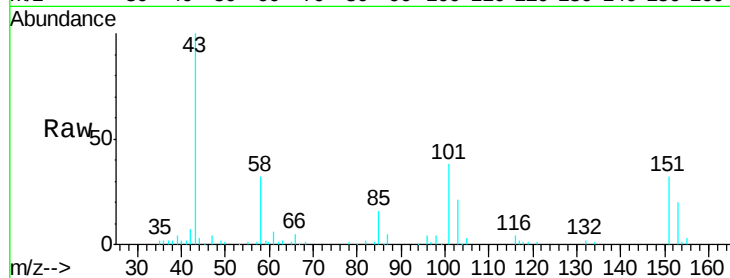
VSTD02516

Tgt Ion: 43 Resp: 68298

Ion Ratio Lower Upper

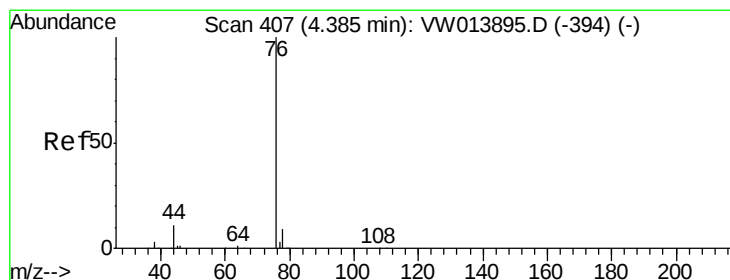
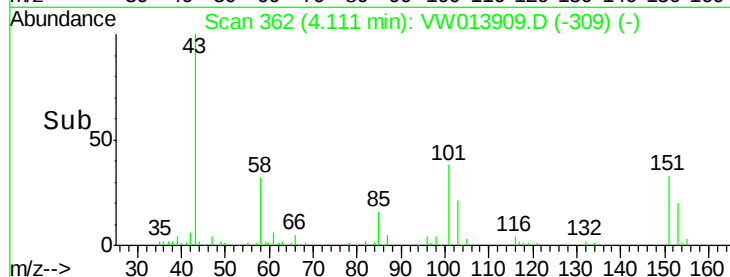
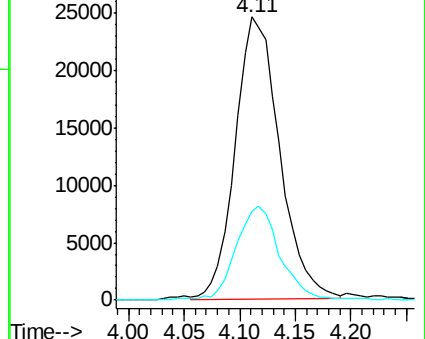
43 100

58 32.6 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 25.494 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013909.D

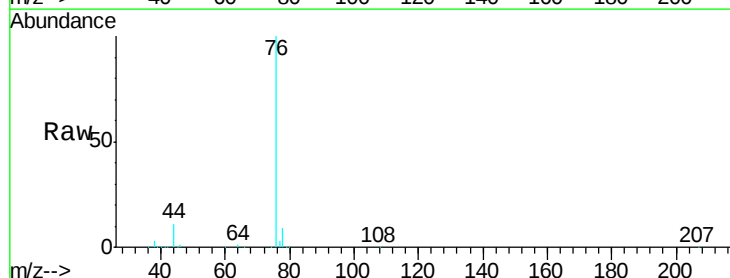
Acq: 04 Nov 2019 09:46

Tgt Ion: 76 Resp: 427200

Ion Ratio Lower Upper

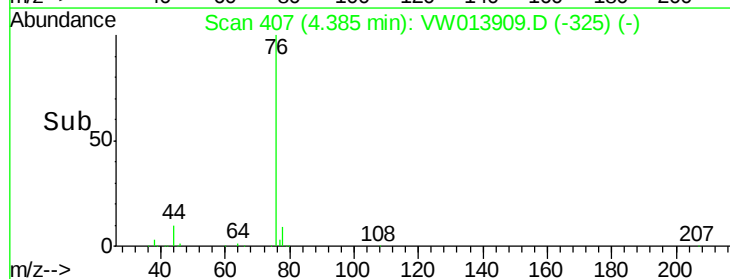
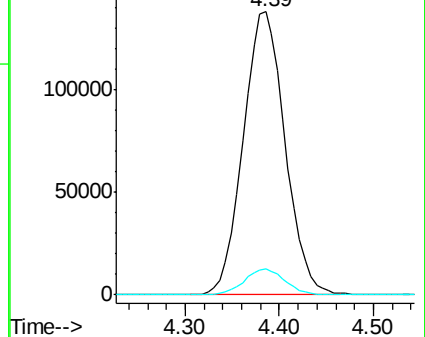
76 100

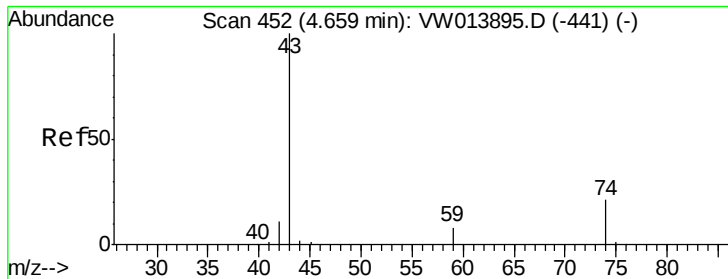
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 20.268 ug/L

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

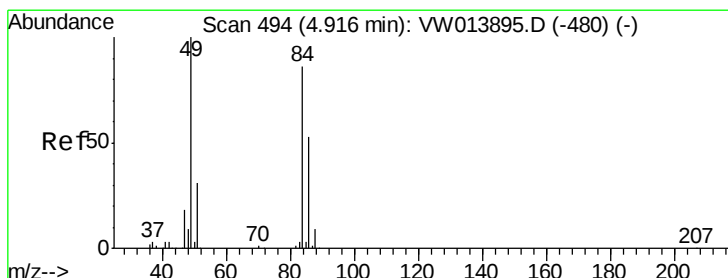
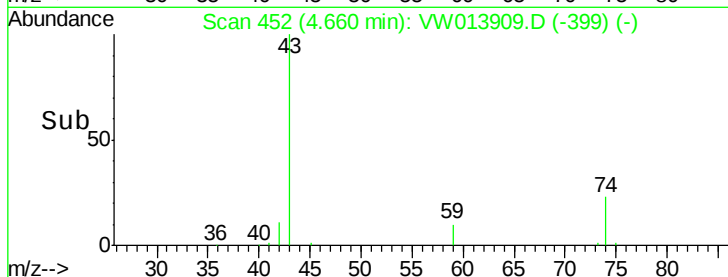
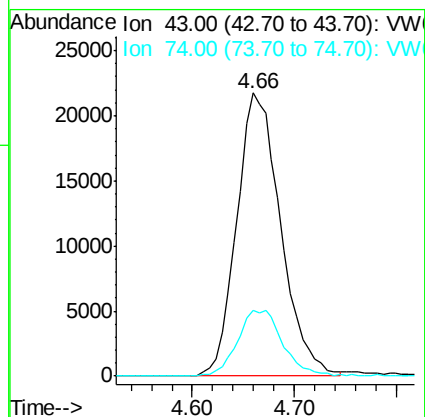
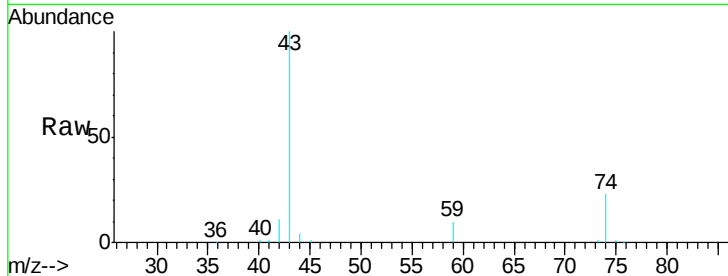
VSTD02516

Tgt Ion: 43 Resp: 65017

Ion Ratio Lower Upper

43 100

74 23.7 19.1 28.7



#16

Methylene chloride

Concen: 22.301 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

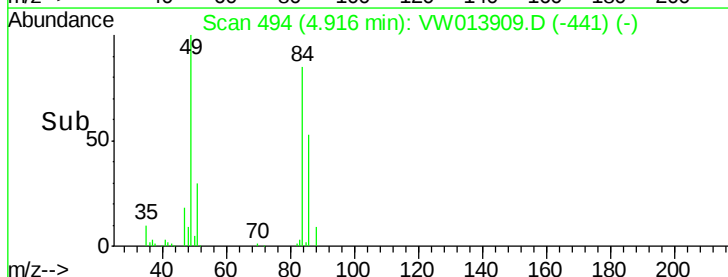
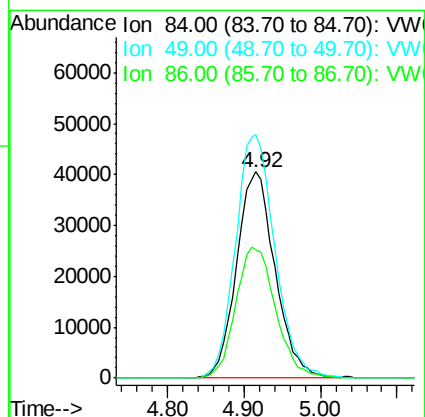
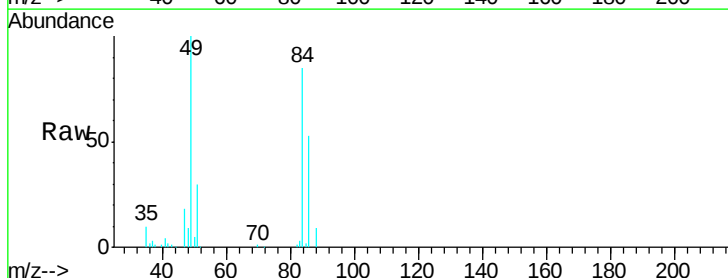
Tgt Ion: 84 Resp: 141659

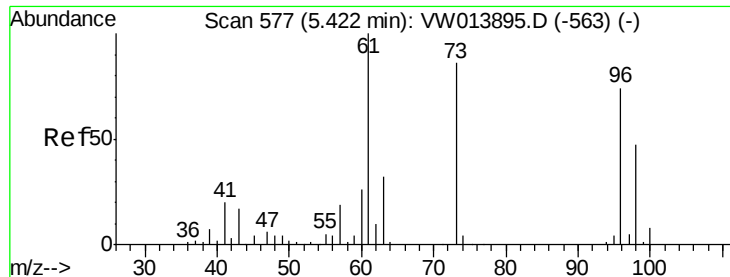
Ion Ratio Lower Upper

84 100

49 118.1 79.7 148.1

86 62.6 46.4 86.2

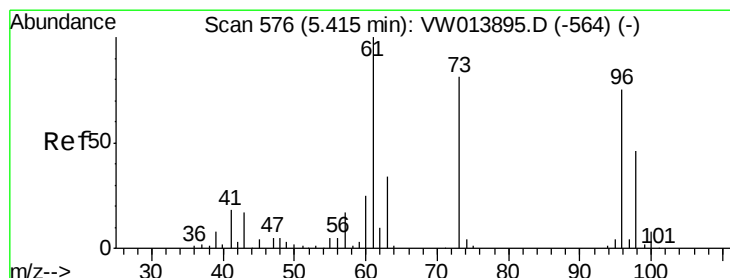
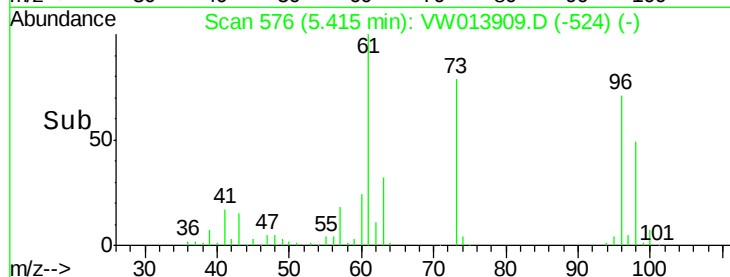
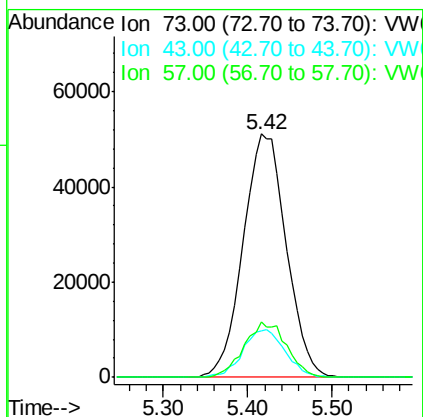
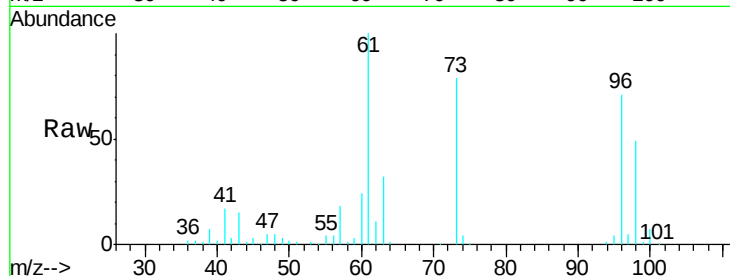




#17  
Methyl tert-butyl Ether  
Concen: 24.028 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

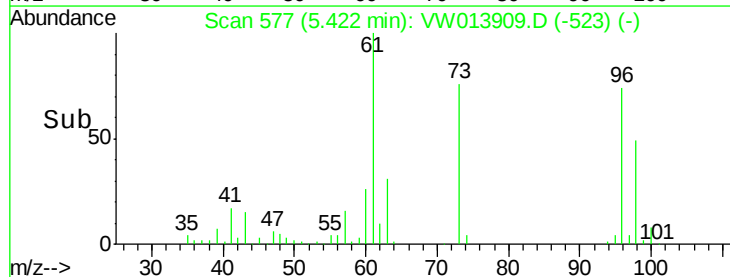
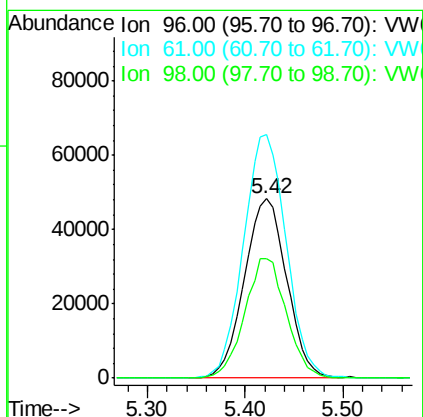
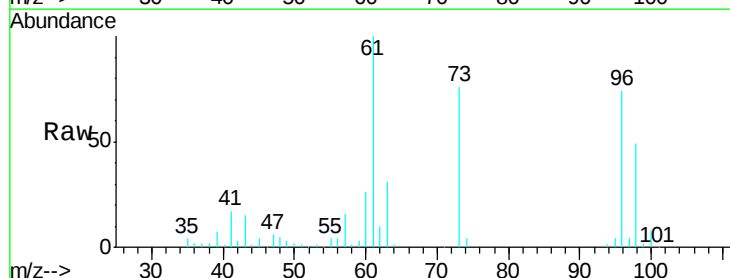
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02516

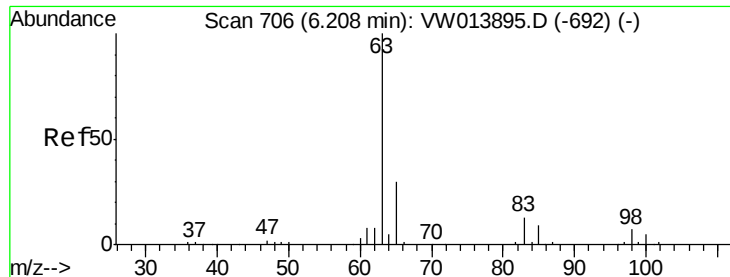
Tgt Ion: 73 Resp: 178215  
Ion Ratio Lower Upper  
73 100  
43 19.1 14.4 21.6  
57 12.5 17.8 26.6#



#18  
trans-1,2-Dichloroethene  
Concen: 23.823 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

Tgt Ion: 96 Resp: 145567  
Ion Ratio Lower Upper  
96 100  
61 135.7 92.6 172.0  
98 66.8 43.8 81.3

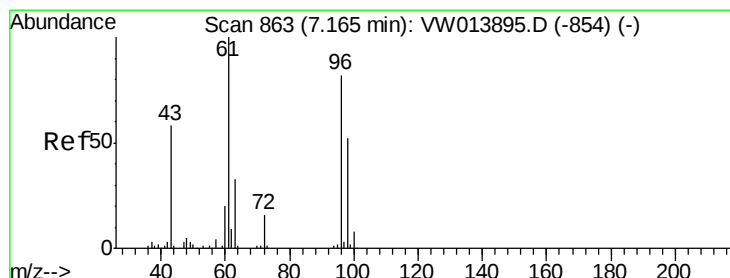
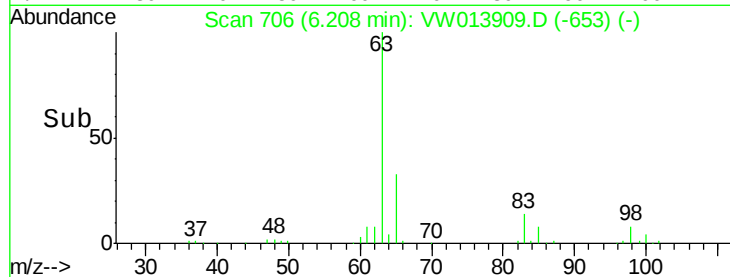
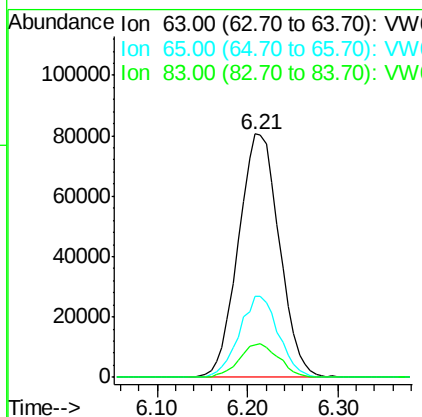
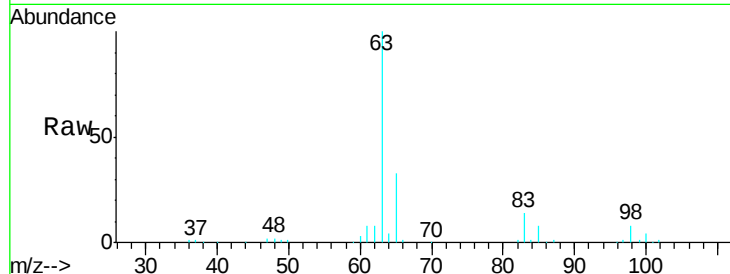




#19  
 1,1-Dichloroethane  
 Concen: 24.286 ug/L  
 RT: 6.21 min Scan# 706  
 Delta R.T. -0.01 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

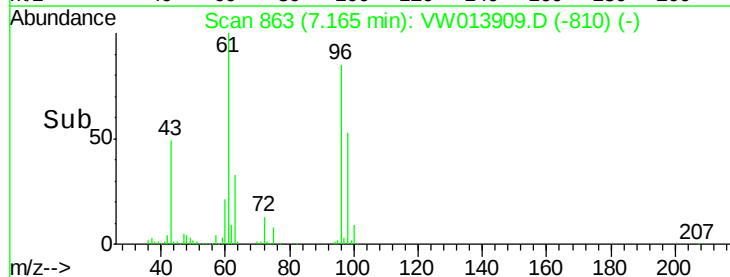
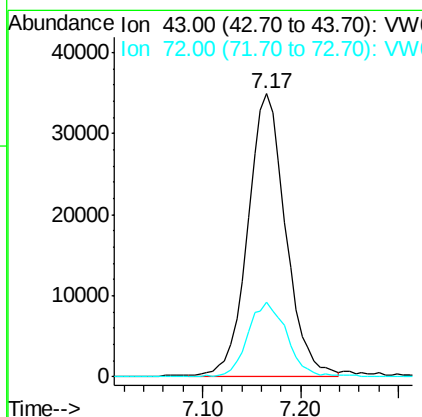
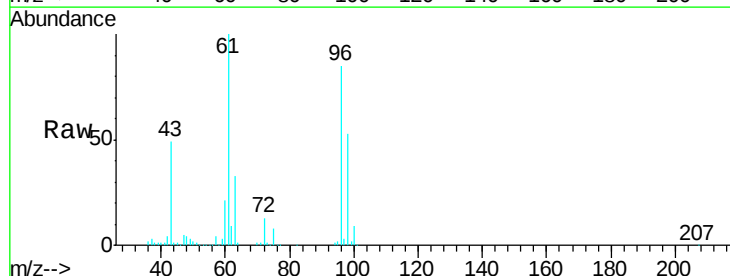
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD02516

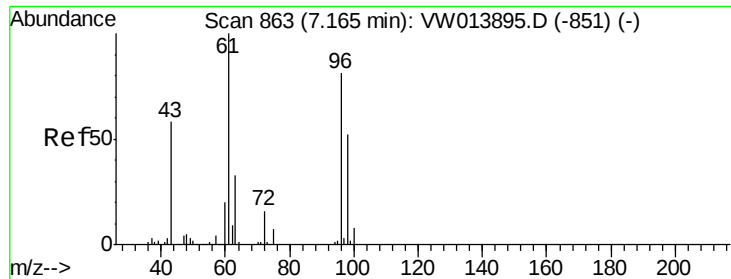
Tgt Ion: 63 Resp: 251955  
 Ion Ratio Lower Upper  
 63 100  
 65 33.5 22.3 41.5  
 83 13.5 10.1 18.7



#21  
 2-Butanone  
 Concen: 36.889 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

Tgt Ion: 43 Resp: 93806  
 Ion Ratio Lower Upper  
 43 100  
 72 27.2 13.6 40.8

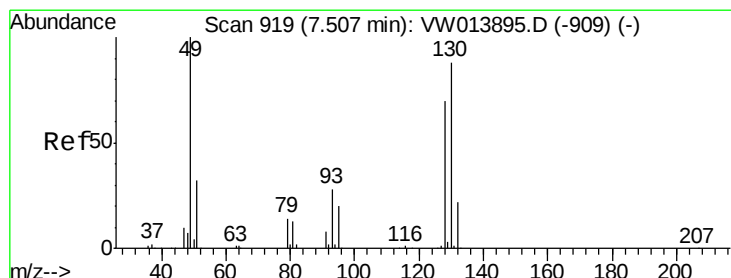
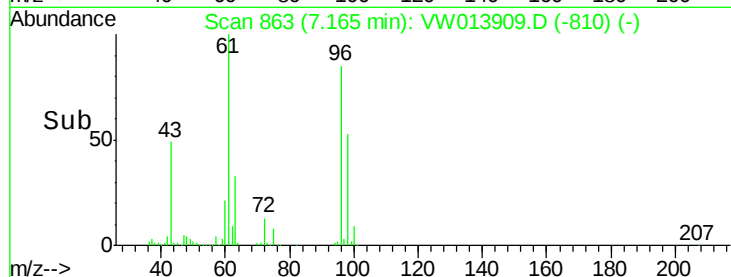
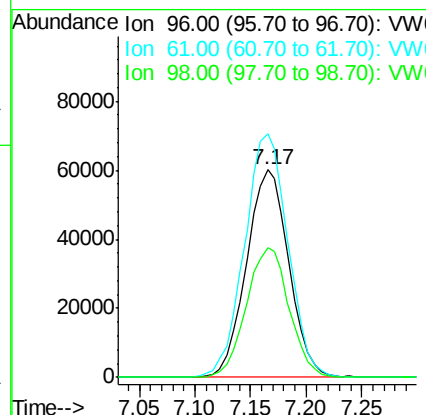
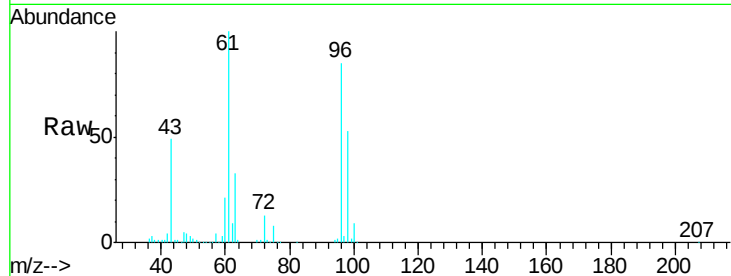




#22  
 cis-1,2-Dichloroethene  
 Concen: 24.757 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

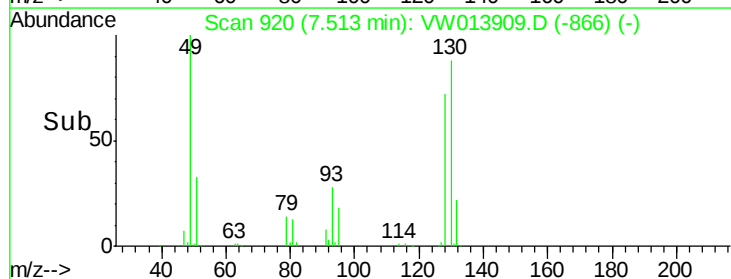
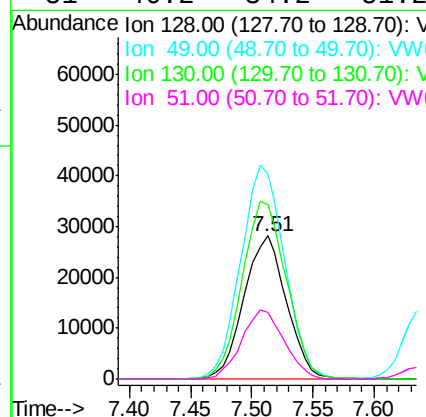
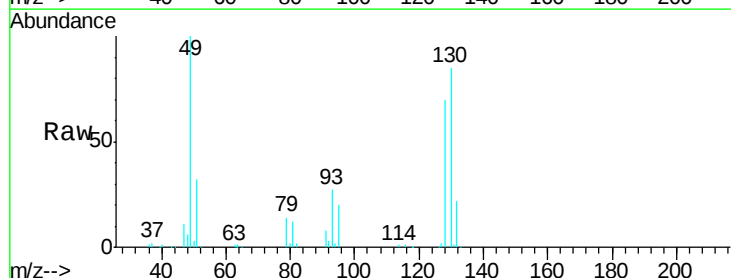
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02516

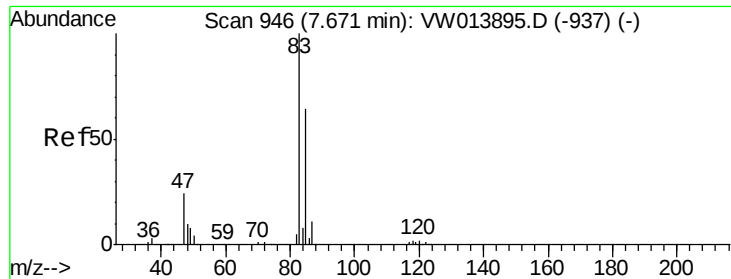
Tgt Ion: 96 Resp: 159080  
 Ion Ratio Lower Upper  
 96 100  
 61 117.2 82.3 152.9  
 98 62.4 44.0 81.8



#23  
 Bromochloromethane  
 Concen: 22.535 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

Tgt Ion: 128 Resp: 68087  
 Ion Ratio Lower Upper  
 128 100  
 49 143.5 98.7 183.3  
 130 121.8 86.8 161.2  
 51 46.2 34.2 51.2

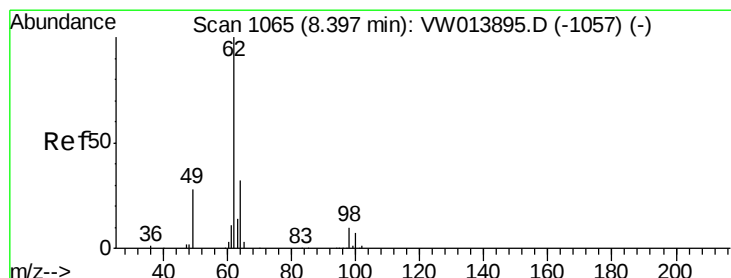
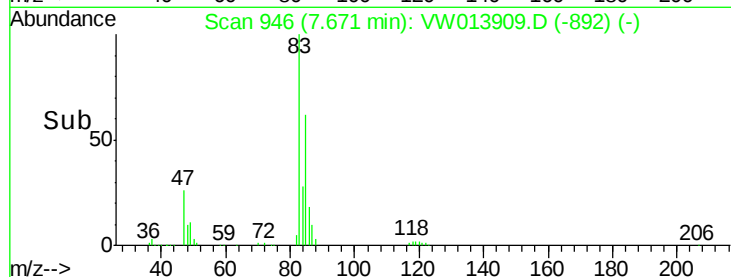
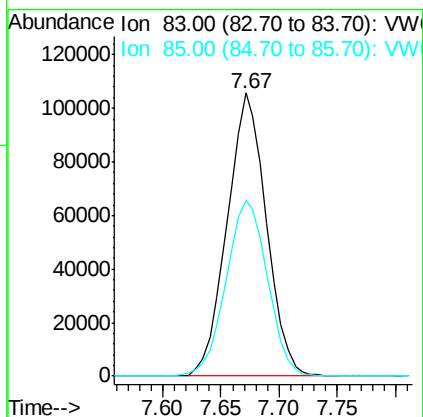
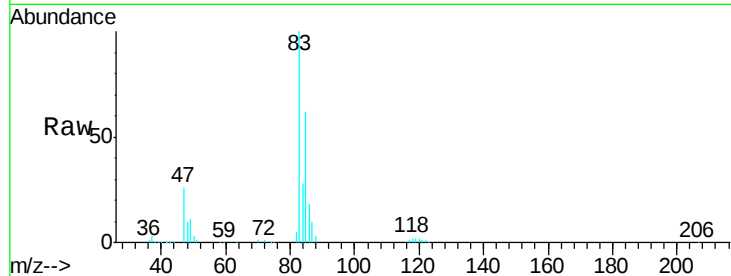




#25  
Chloroform  
Concen: 23.681 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

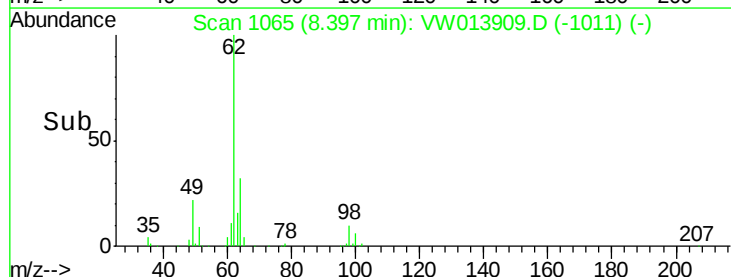
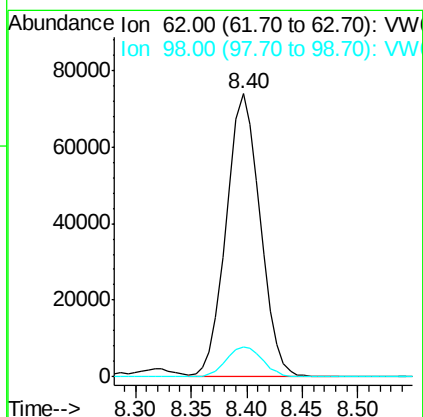
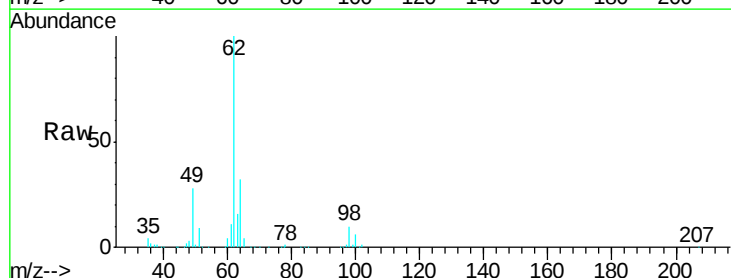
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02516

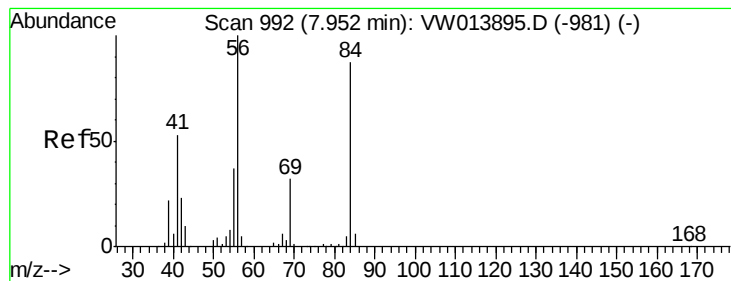
Tgt Ion: 83 Resp: 247000  
Ion Ratio Lower Upper  
83 100  
85 65.6 46.9 87.1



#27  
1,2-Dichloroethane  
Concen: 22.687 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. 0.00 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

Tgt Ion: 62 Resp: 156509  
Ion Ratio Lower Upper  
62 100  
98 10.4 8.2 12.2





#30

Cyclohexane

Concen: 25.206 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02516

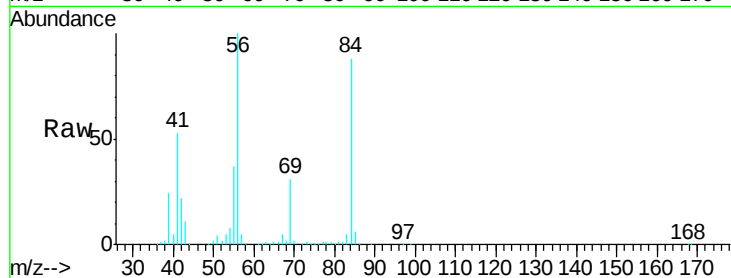
Tgt Ion: 56 Resp: 245805

Ion Ratio Lower Upper

56 100

69 30.5 24.5 36.7

84 87.8 70.6 105.8

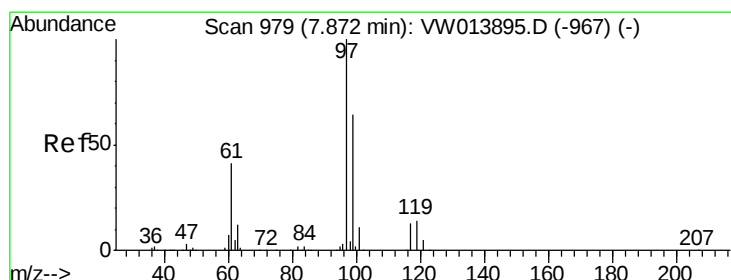
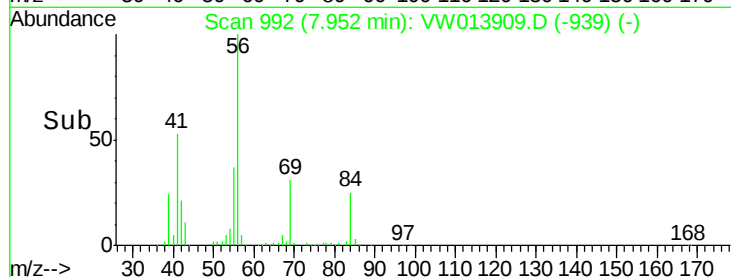
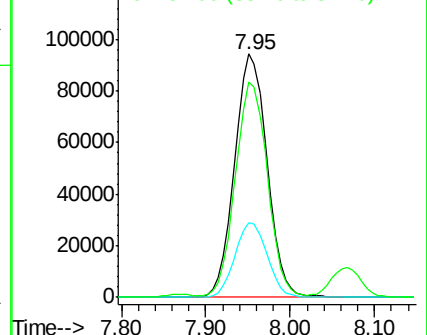


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 25.115 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

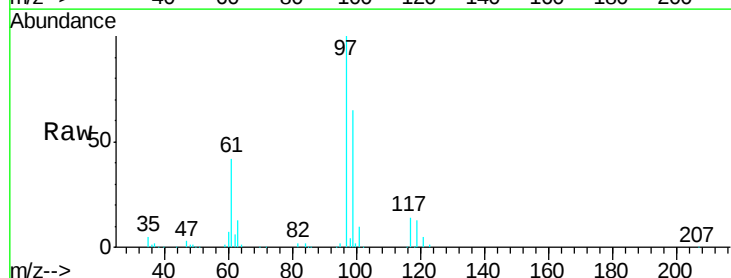
Tgt Ion: 97 Resp: 198744

Ion Ratio Lower Upper

97 100

99 64.3 52.0 78.0

61 41.8 33.6 50.4

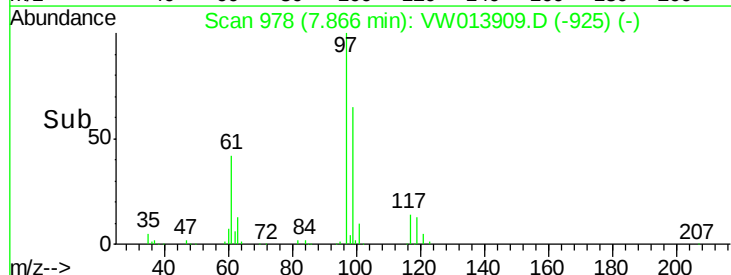
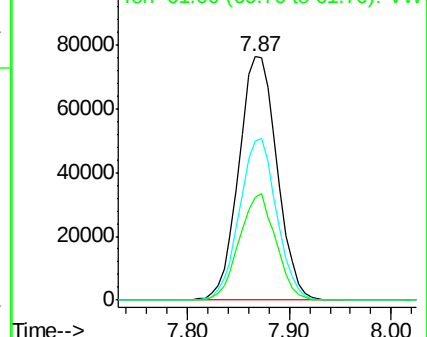


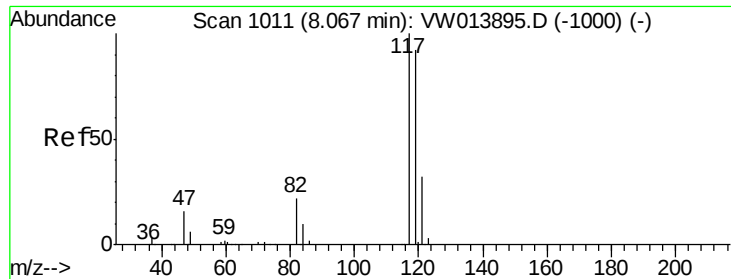
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 24.804 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

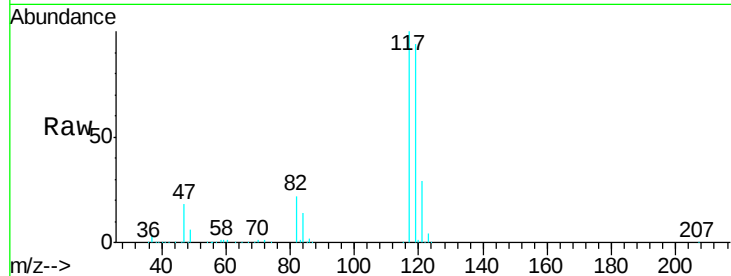
VSTD02516

Tgt Ion:117 Resp: 191944

Ion Ratio Lower Upper

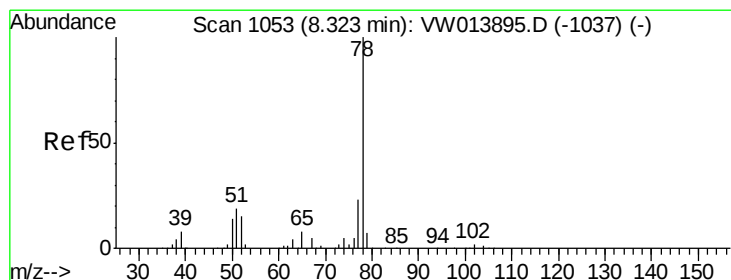
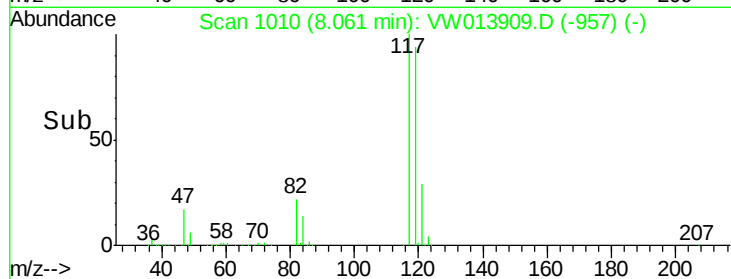
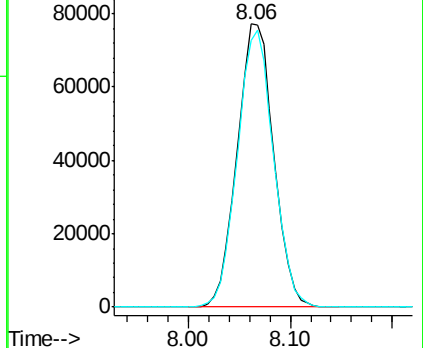
117 100

119 96.7 77.9 116.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.012 ug/L

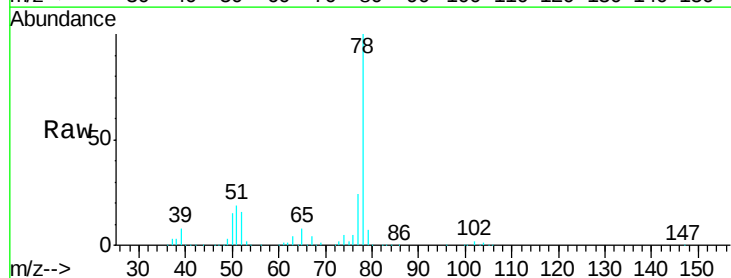
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

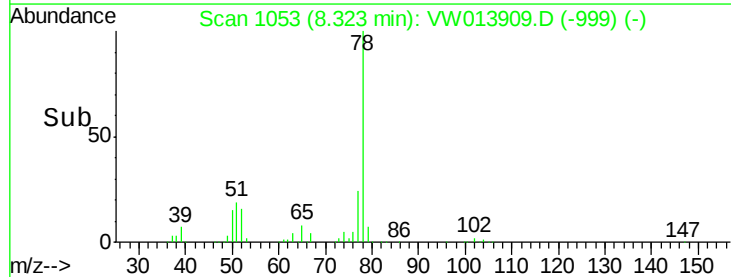
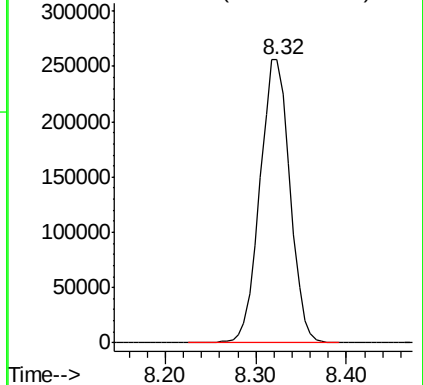
Lab File: VW013909.D

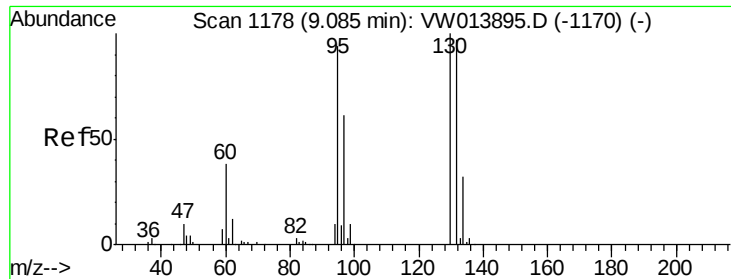
Acq: 04 Nov 2019 09:46

Tgt Ion: 78 Resp: 586812



Abundance Ion 78.00 (77.70 to 78.70): VW

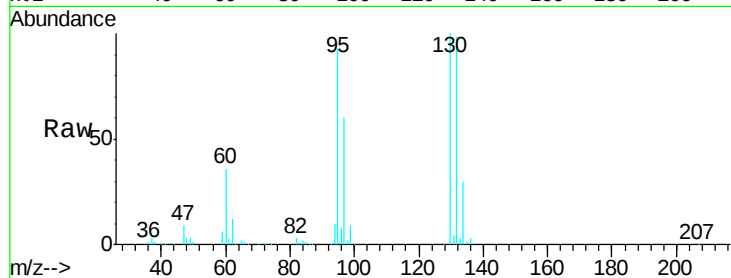




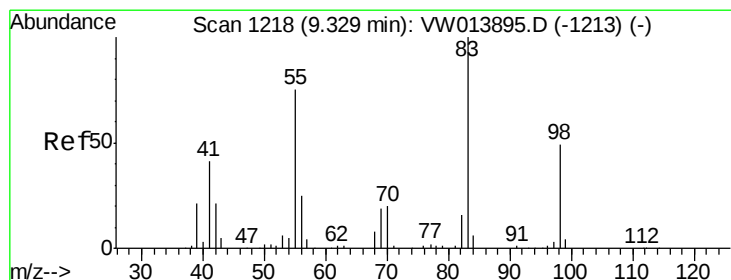
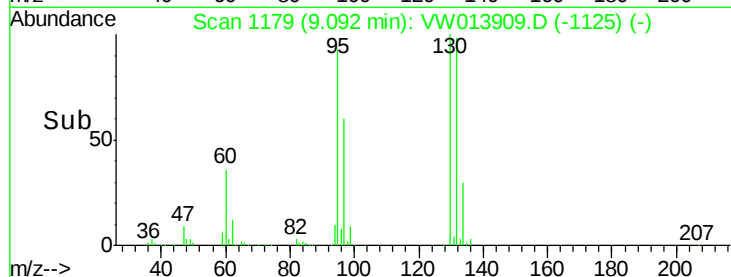
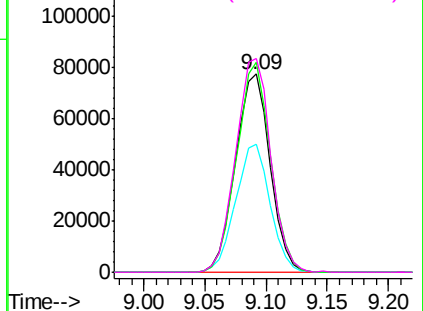
#35  
 Trichloroethene  
 Concen: 24.611 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02516

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 152205 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.9  | 44.9  | 83.5   |
| 132      | 103.9 | 73.3  | 136.1  |
| 130      | 109.7 | 75.5  | 140.1  |

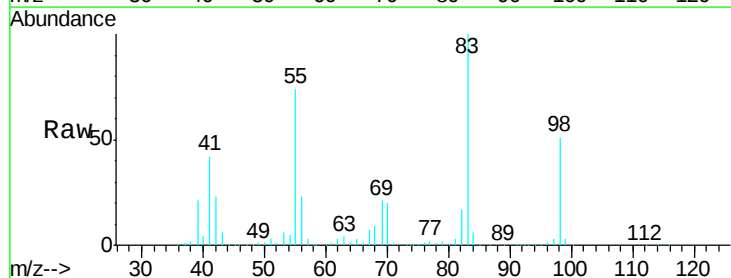


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

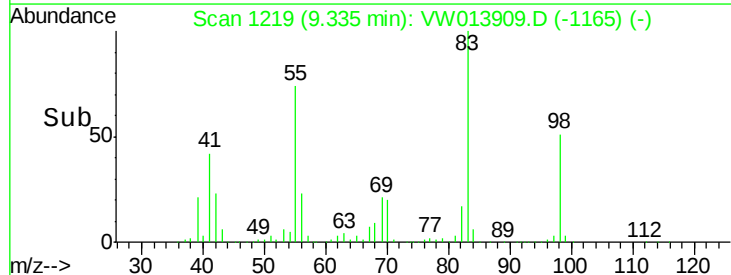
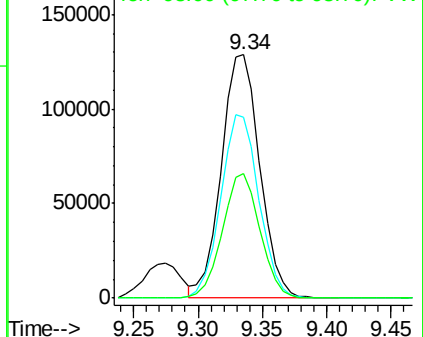


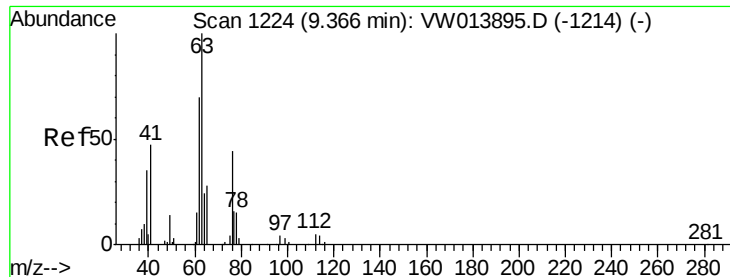
#36  
 Methylcyclohexane  
 Concen: 24.772 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 268902 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 74.7  | 60.2  | 90.2   |
| 98       | 49.9  | 39.2  | 58.8   |



Abundance Ion 83.00 (82.70 to 83.70): VW  
 Ion 55.00 (54.70 to 55.70): VW  
 Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 24.169 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

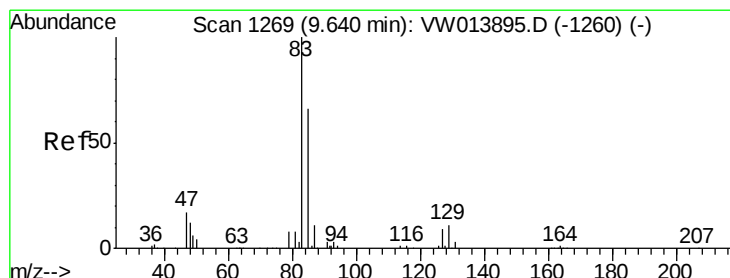
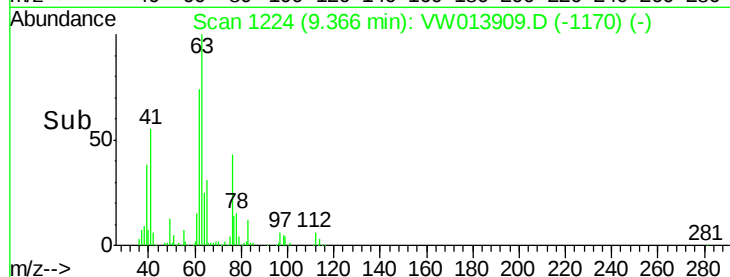
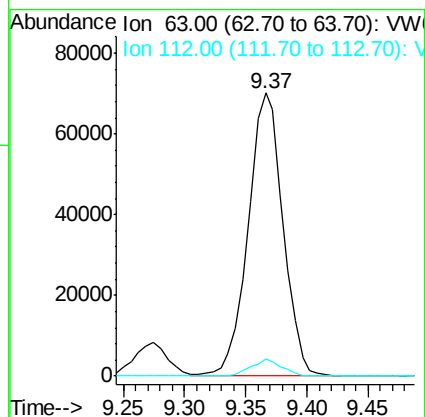
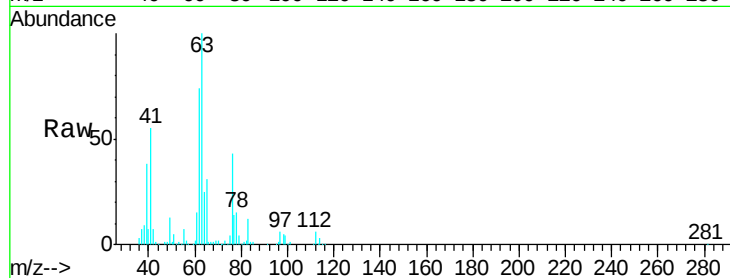
VSTD02516

Tgt Ion: 63 Resp: 139171

Ion Ratio Lower Upper

63 100

112 5.2 3.9 5.9



#41

Bromodichloromethane

Concen: 24.304 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

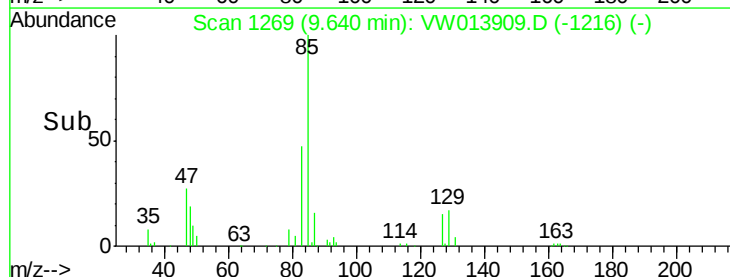
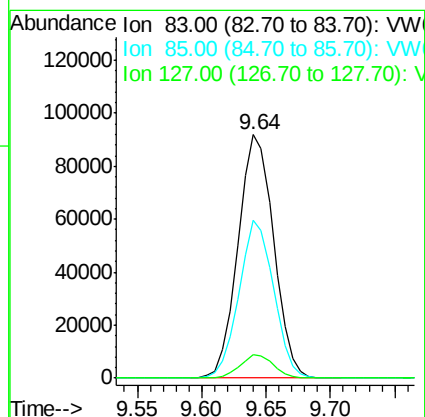
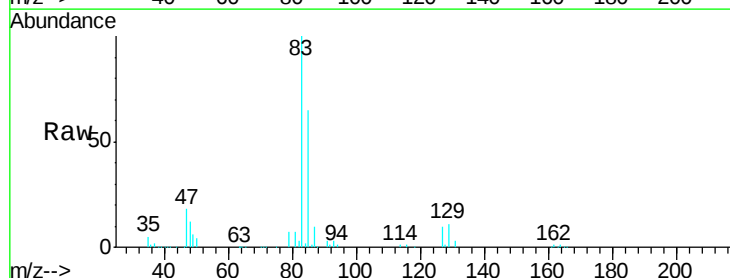
Tgt Ion: 83 Resp: 175937

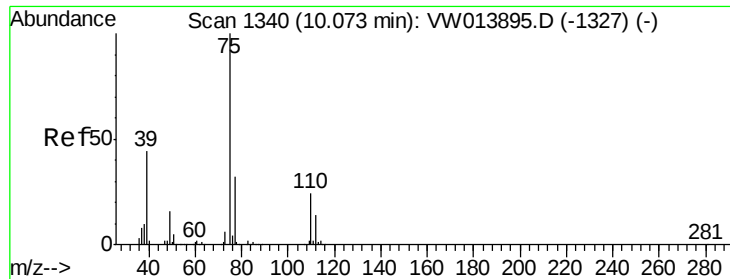
Ion Ratio Lower Upper

83 100

85 64.7 43.5 80.7

127 9.7 7.0 10.4





#42

cis-1,3-Dichloropropene

Concen: 24.580 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

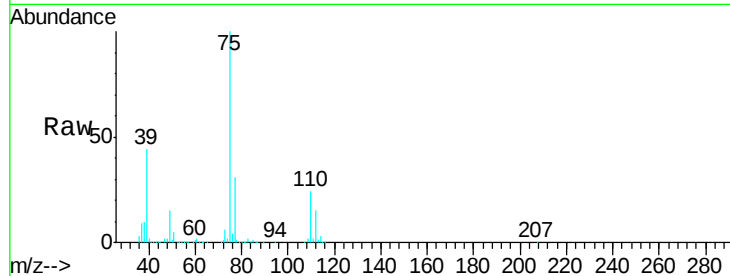
VSTD02516

Tgt Ion: 75 Resp: 223057

Ion Ratio Lower Upper

75 100

77 31.0 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

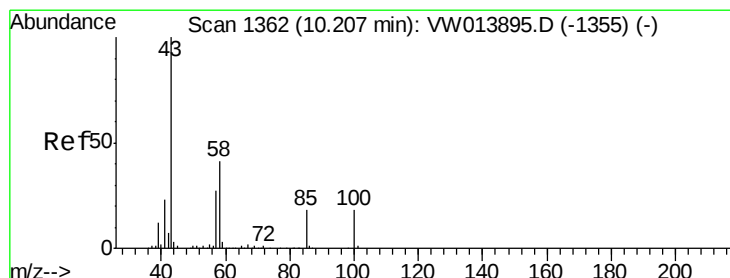
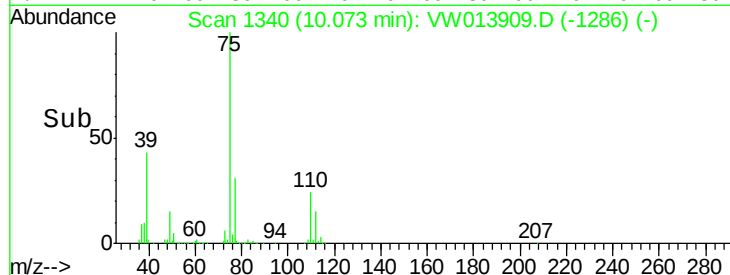
10.07

100000

50000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 40.665 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

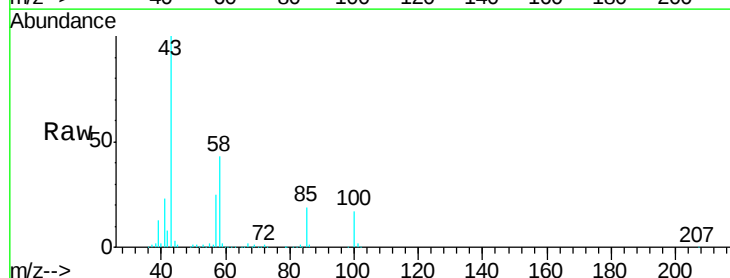
Tgt Ion: 43 Resp: 180086

Ion Ratio Lower Upper

43 100

58 40.1 32.6 48.8

100 16.9 14.1 21.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

250000

200000

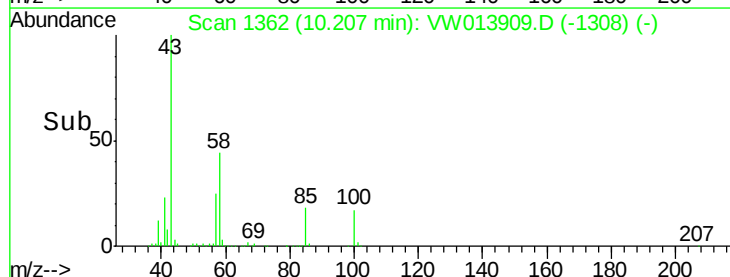
150000

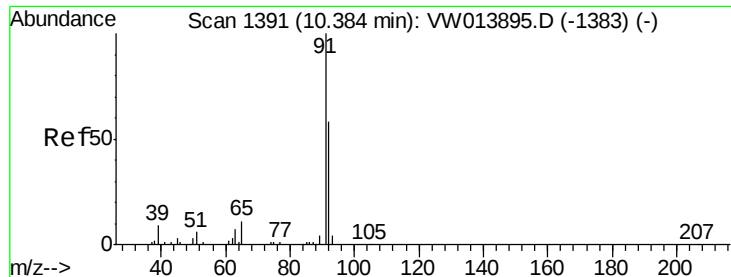
100000

50000

0

Time-->





#44

Toluene

Concen: 24.762 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

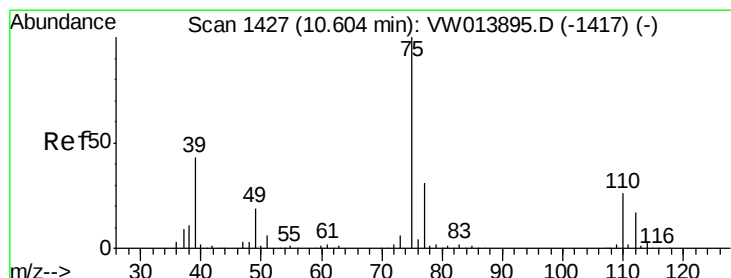
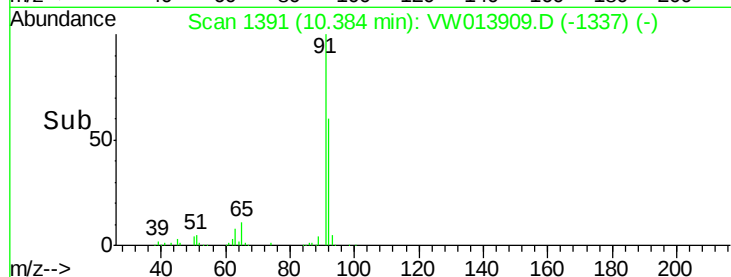
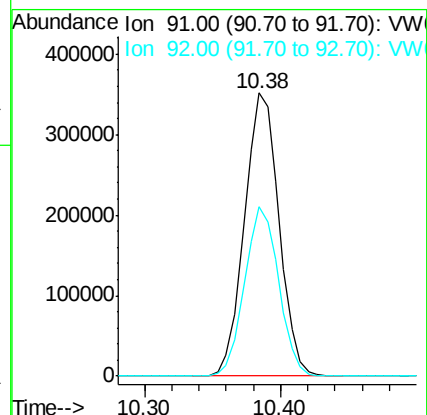
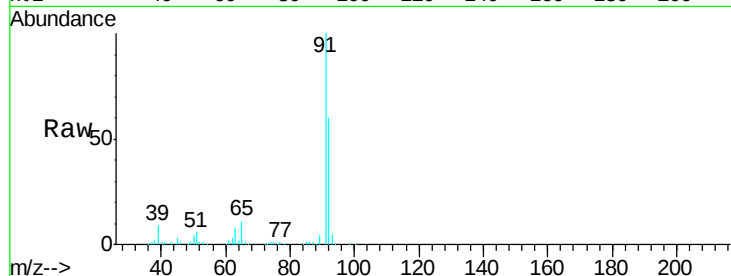
VSTD02516

Tgt Ion: 91 Resp: 624266

Ion Ratio Lower Upper

91 100

92 59.8 40.3 74.9



#45

trans-1,3-Dichloropropene

Concen: 24.095 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013909.D

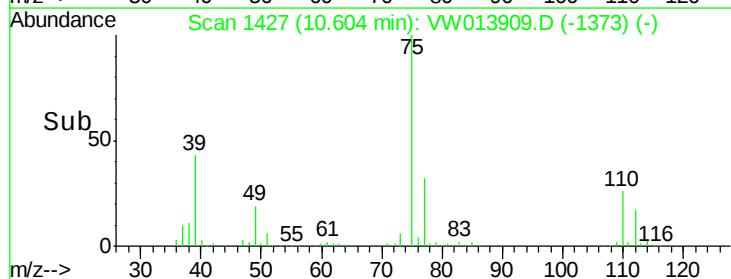
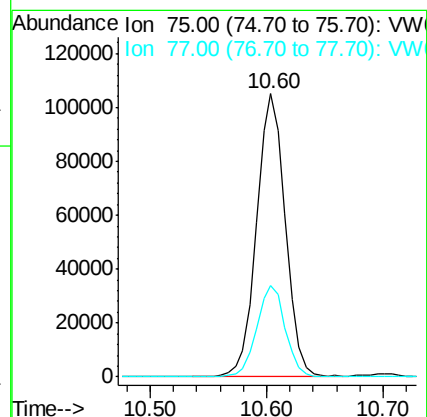
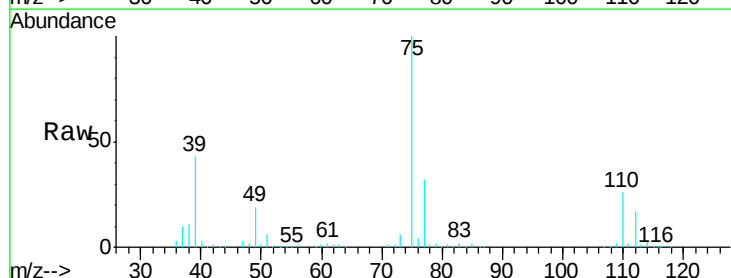
Acq: 04 Nov 2019 09:46

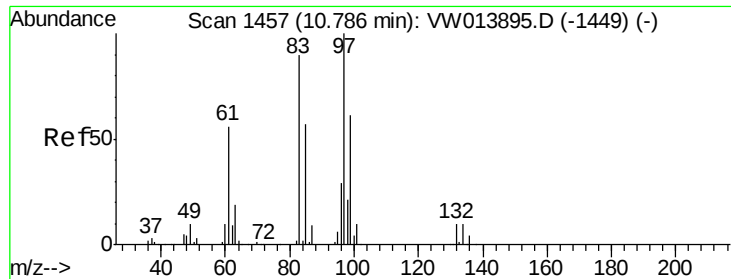
Tgt Ion: 75 Resp: 180681

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 22.784 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02516

Tgt Ion: 97 Resp: 104763

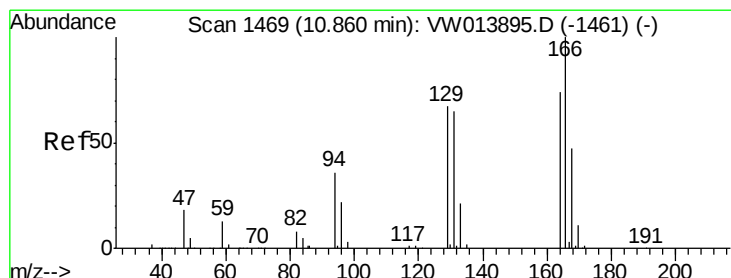
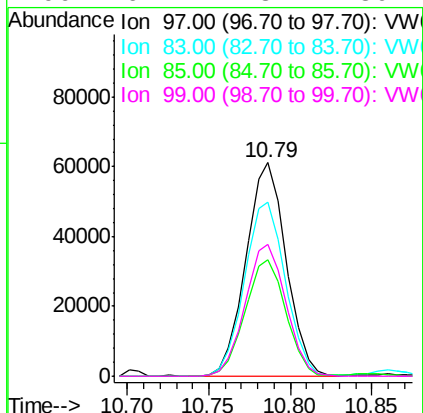
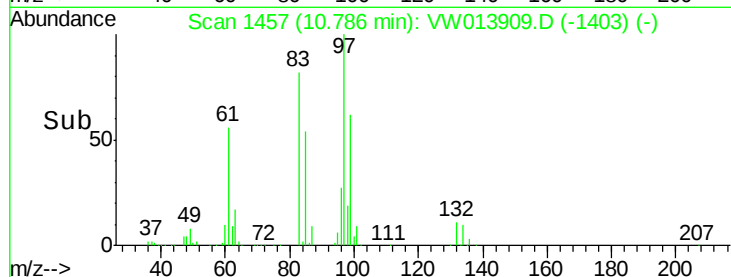
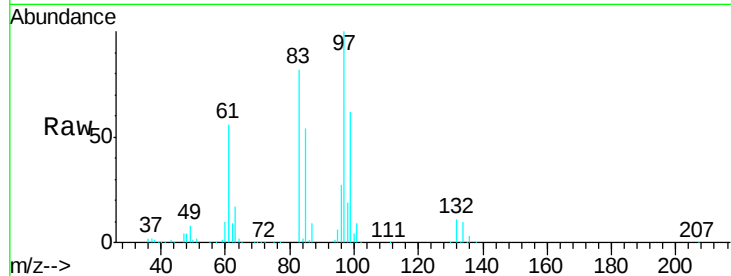
Ion Ratio Lower Upper

97 100

83 81.7 58.4 108.4

85 54.4 36.2 67.2

99 61.7 43.1 80.1



#47

Tetrachloroethene

Concen: 24.406 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Tgt Ion: 164 Resp: 138961

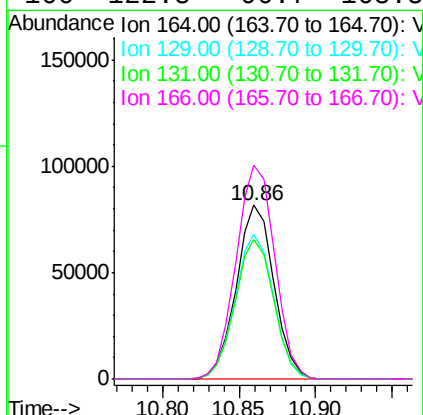
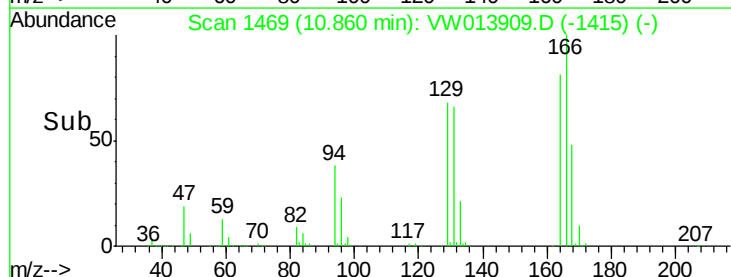
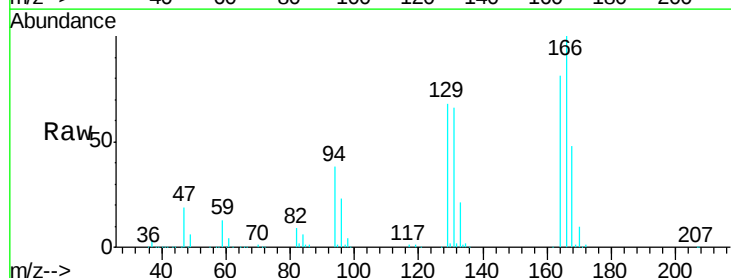
Ion Ratio Lower Upper

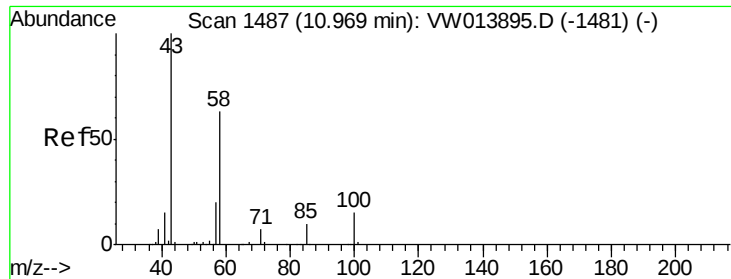
164 100

129 83.0 63.0 117.0

131 80.5 60.6 112.6

166 122.8 90.7 168.5

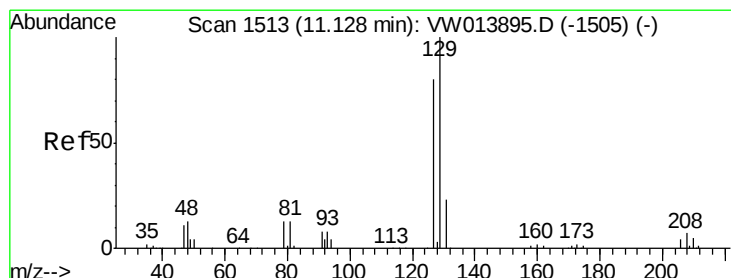
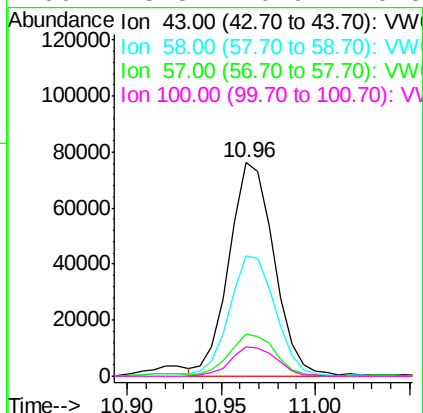
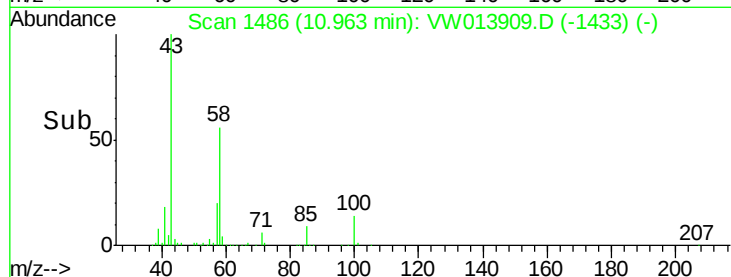
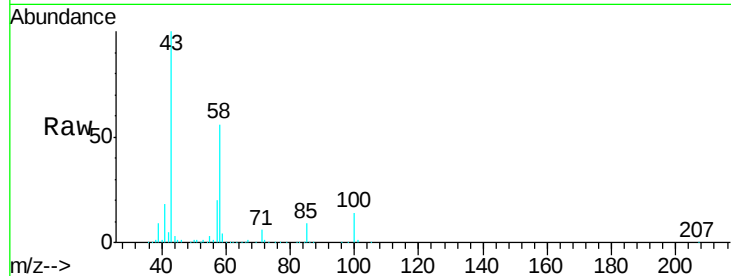




#49  
2-Hexanone  
Concen: 38.997 ug/L  
RT: 10.96 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

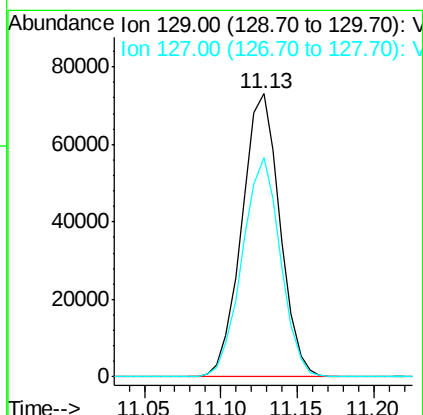
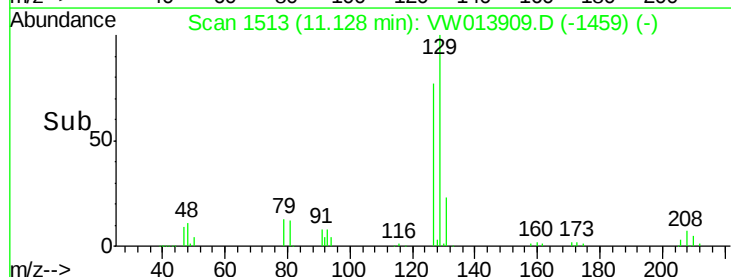
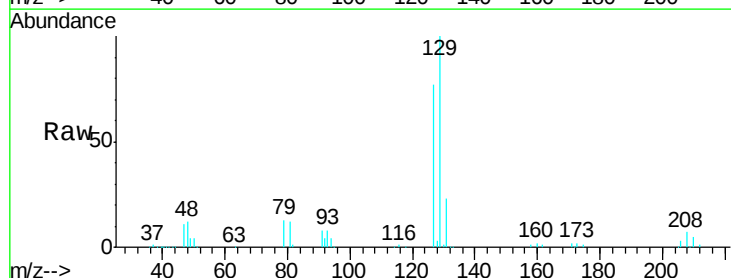
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02516

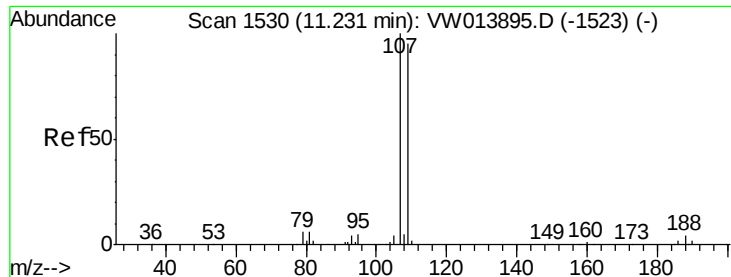
Tgt Ion: 43 Resp: 126870  
Ion Ratio Lower Upper  
43 100  
58 58.3 45.2 67.8  
57 20.0 15.4 23.0  
100 13.8 10.9 16.3



#50  
Dibromochloromethane  
Concen: 23.720 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

Tgt Ion: 129 Resp: 126612  
Ion Ratio Lower Upper  
129 100  
127 77.5 52.1 96.7

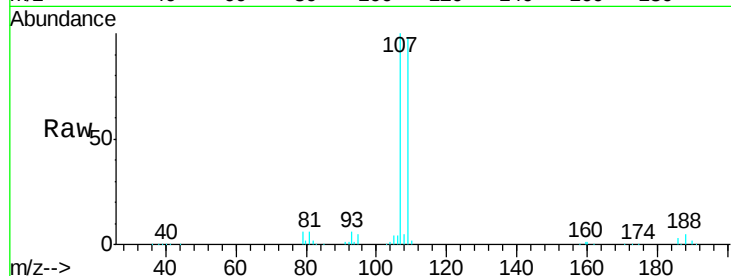




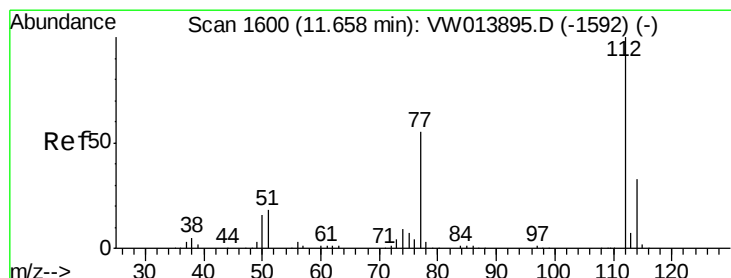
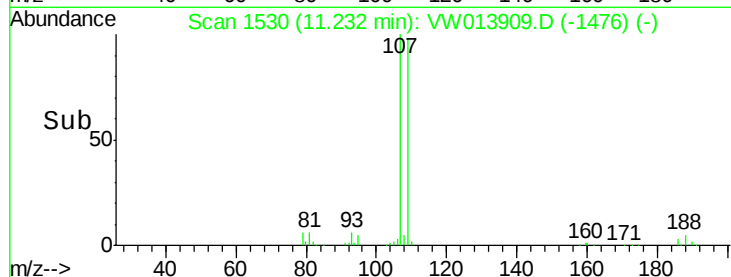
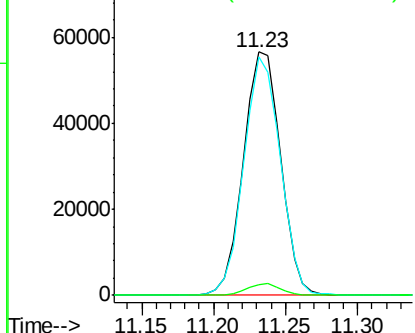
#51  
1,2-Dibromoethane  
Concen: 22.336 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. 0.00 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02516

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 98.0  | 66.3  | 123.1 |
| 188     | 4.6   | 3.5   | 5.3   |

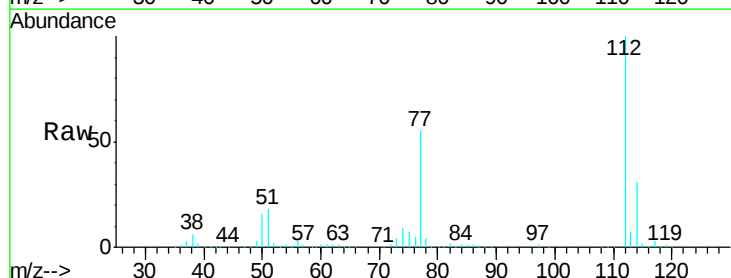


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

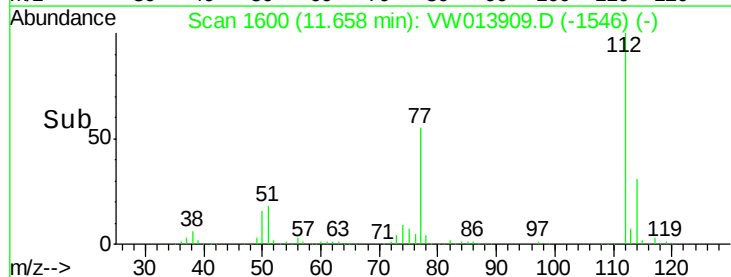
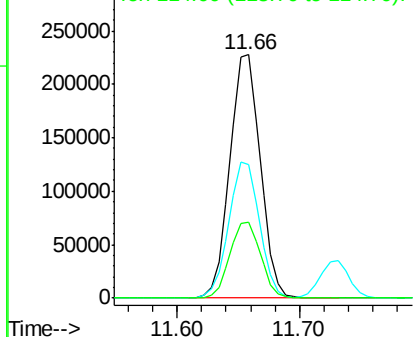


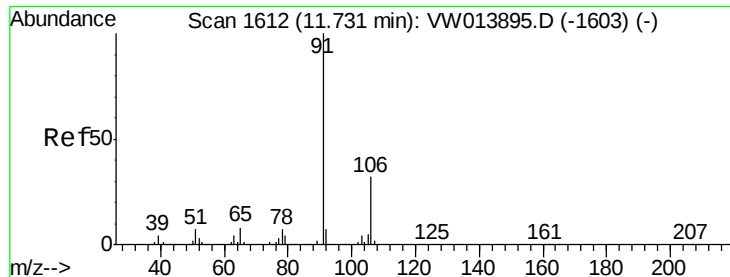
#52  
Chlorobenzene  
Concen: 24.099 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 55.0  | 45.4  | 68.0  |
| 114     | 31.3  | 22.6  | 42.0  |



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 77.00 (76.70 to 77.70): V  
Ion 114.00 (113.70 to 114.70): V

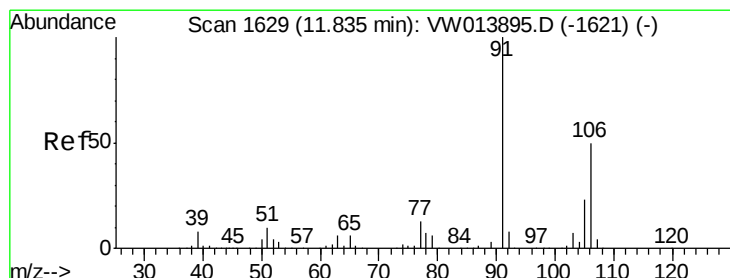
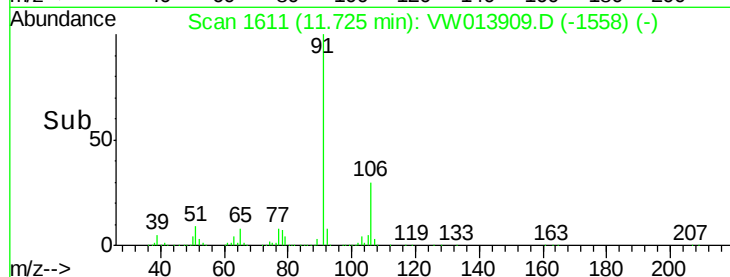
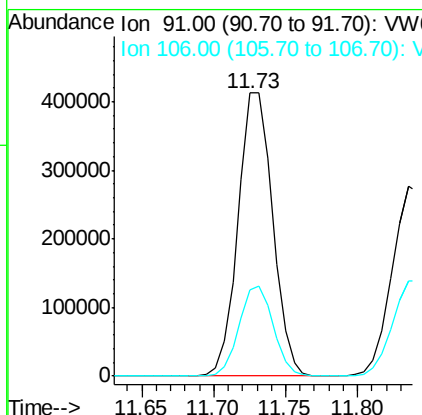
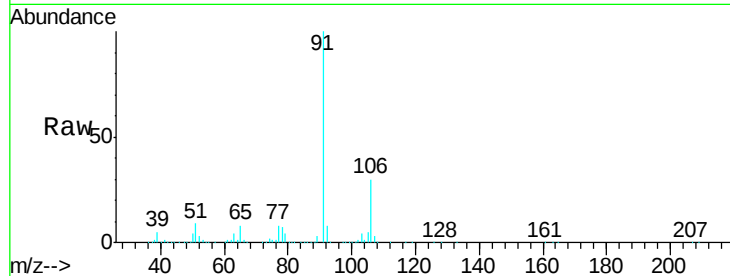




#53  
Ethylbenzene  
Concen: 24.588 ug/L  
RT: 11.73 min Scan# 1611  
Delta R.T. -0.01 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

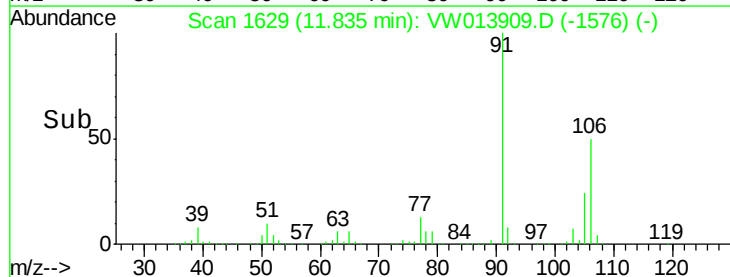
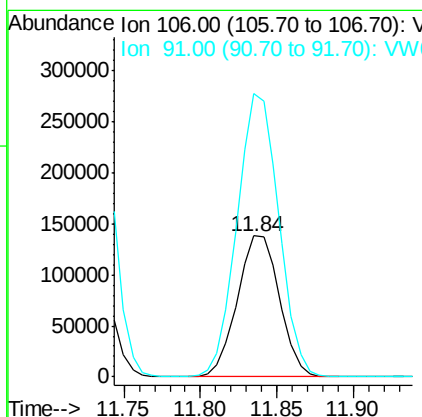
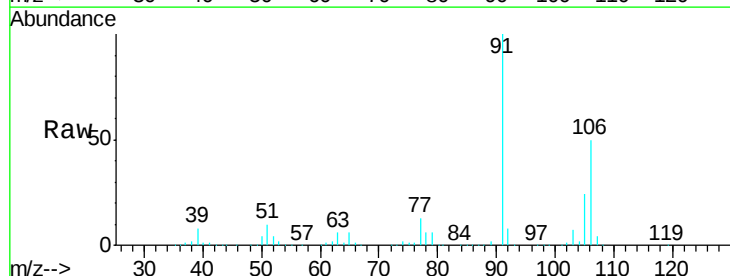
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02516

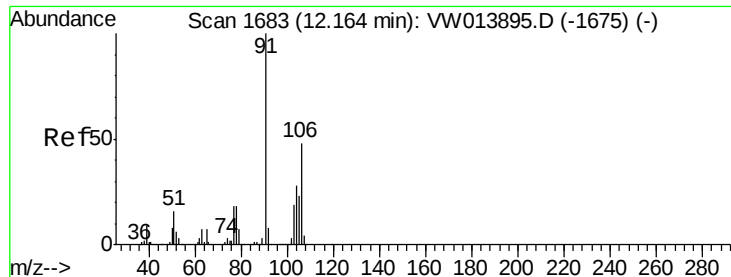
Tgt Ion: 91 Resp: 690010  
Ion Ratio Lower Upper  
91 100  
106 30.5 22.0 40.8



#54  
m,p-Xylene  
Concen: 24.533 ug/L  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW013909.D  
Acq: 04 Nov 2019 09:46

Tgt Ion: 106 Resp: 265319  
Ion Ratio Lower Upper  
106 100  
91 200.9 133.7 248.3





#55

o-xylene

Concen: 24.489 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

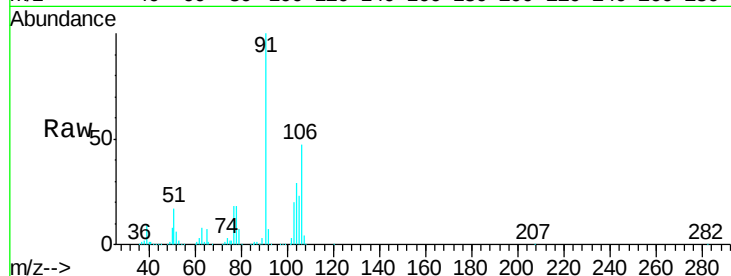
VSTD02516

Tgt Ion:106 Resp: 250347

Ion Ratio Lower Upper

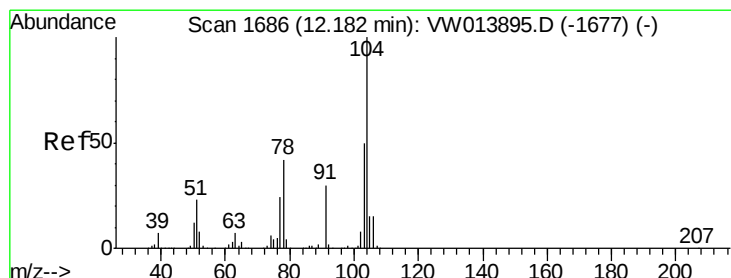
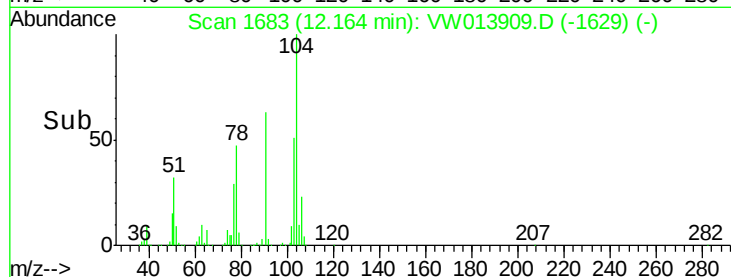
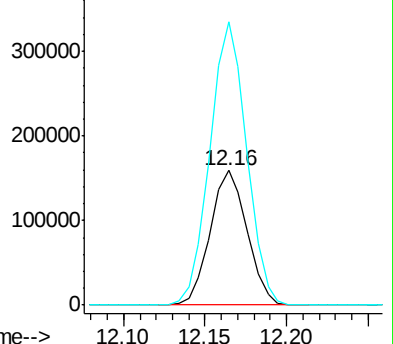
106 100

91 210.7 145.6 270.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.258 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW013909.D

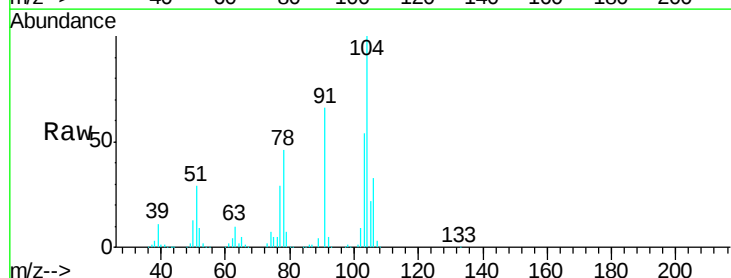
Acq: 04 Nov 2019 09:46

Tgt Ion:104 Resp: 427919

Ion Ratio Lower Upper

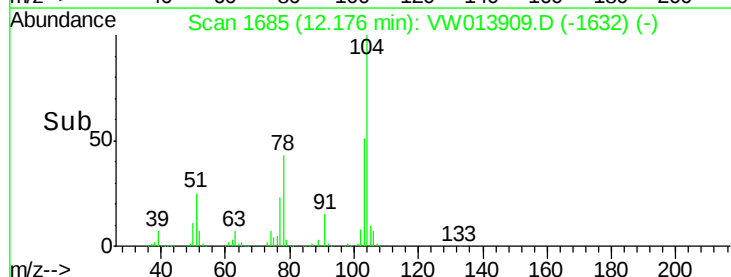
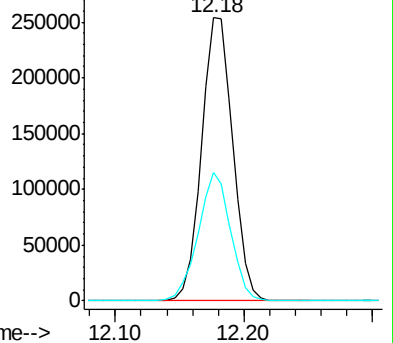
104 100

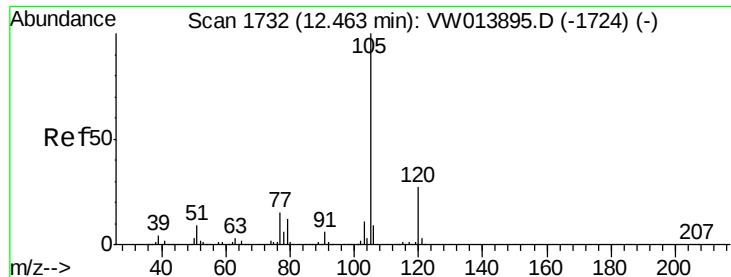
78 45.6 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.533 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02516

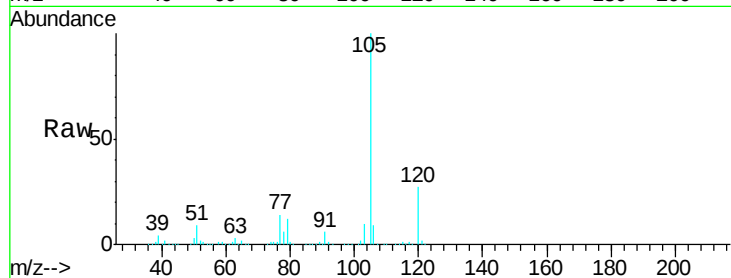
Tgt Ion: 105 Resp: 676262

Ion Ratio Lower Upper

105 100

120 26.7 21.5 32.3

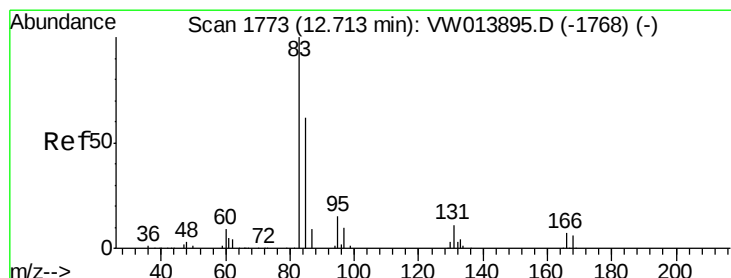
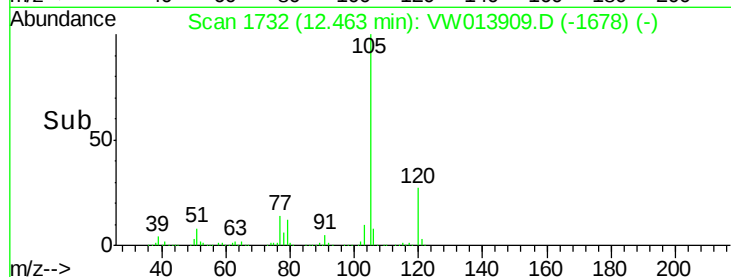
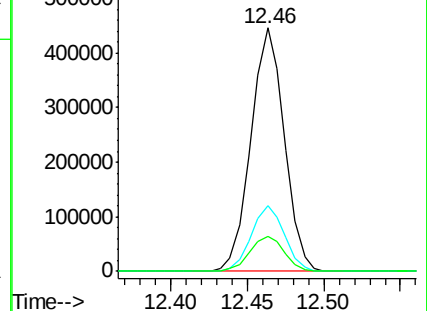
77 14.6 11.7 17.5



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: 21.000 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

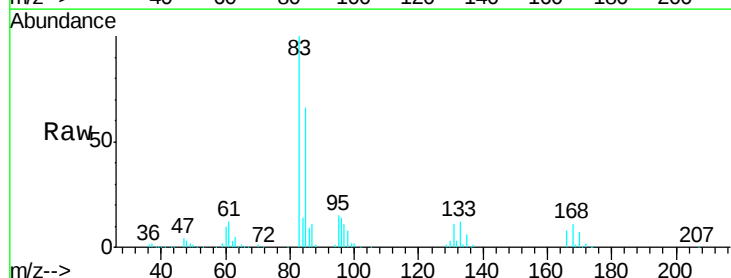
Tgt Ion: 83 Resp: 121610

Ion Ratio Lower Upper

83 100

85 65.5 45.6 84.6

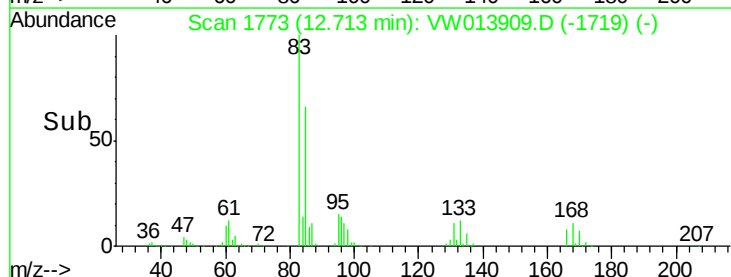
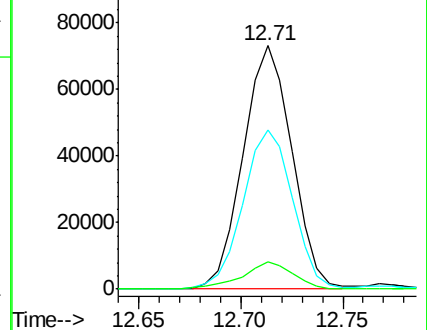
131 11.3 7.8 11.8

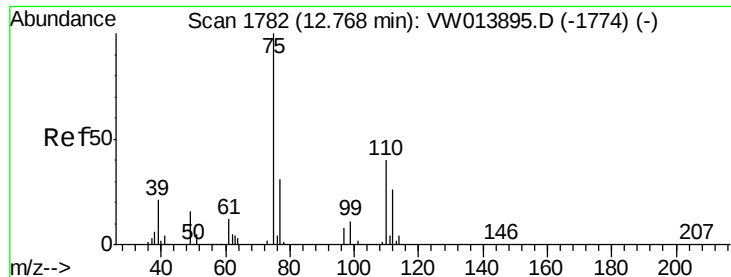


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

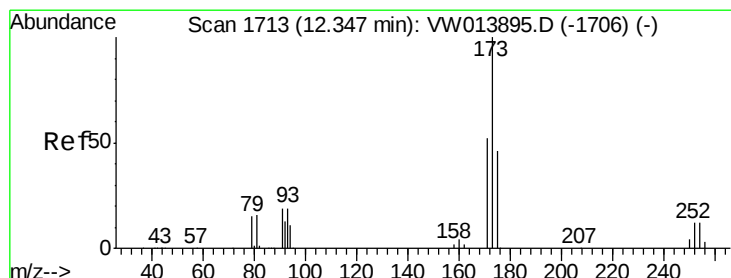
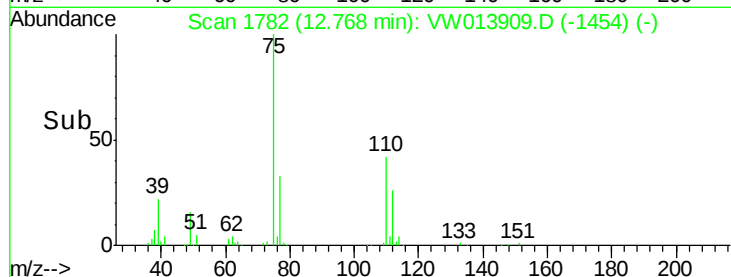
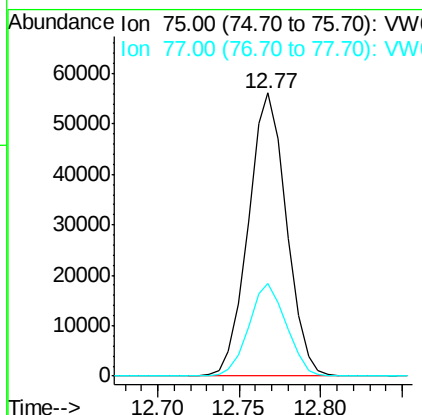
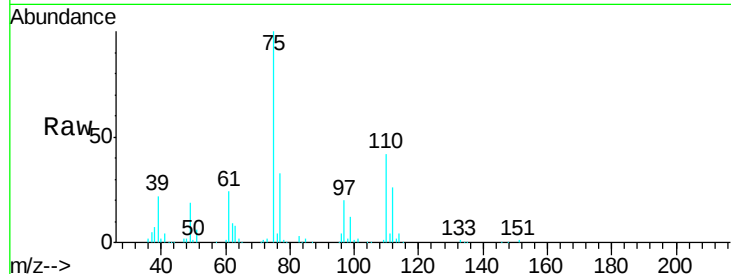




#59  
 1,2,3-Trichloropropane  
 Concen: 20.964 ug/L  
 RT: 12.77 min Scan# 1782  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

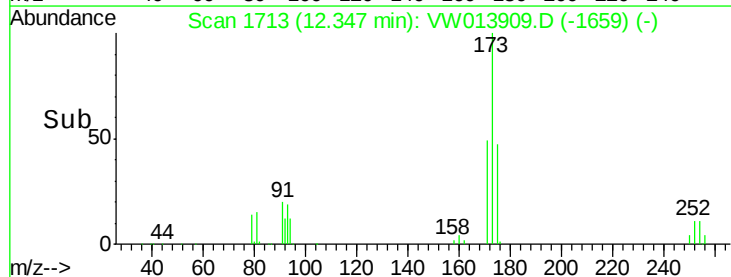
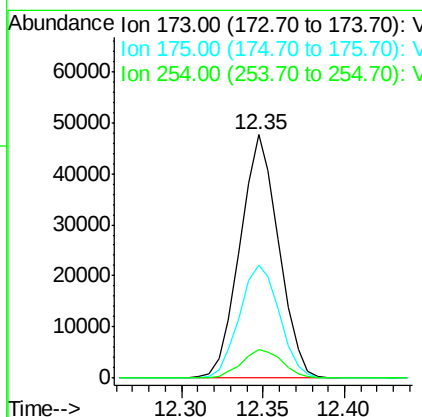
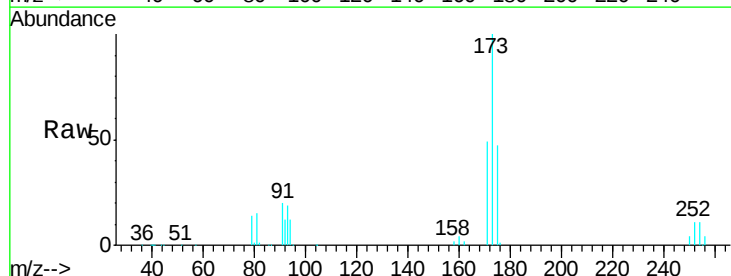
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02516

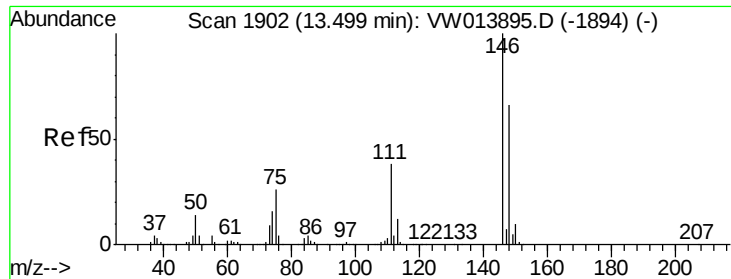
Tgt Ion: 75 Resp: 91148  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 25.9 38.9



#62  
 Bromoform  
 Concen: 22.583 ug/L  
 RT: 12.35 min Scan# 1713  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

Tgt Ion: 173 Resp: 78742  
 Ion Ratio Lower Upper  
 173 100  
 175 48.2 39.7 59.5  
 254 12.4 10.0 15.0

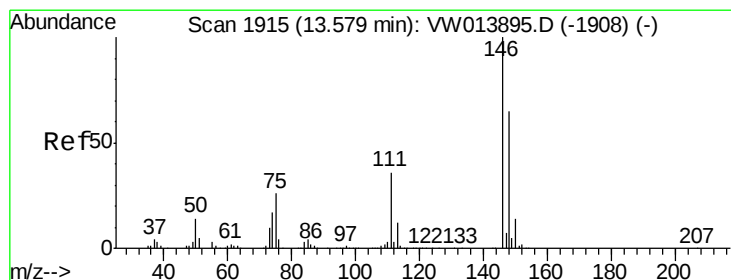
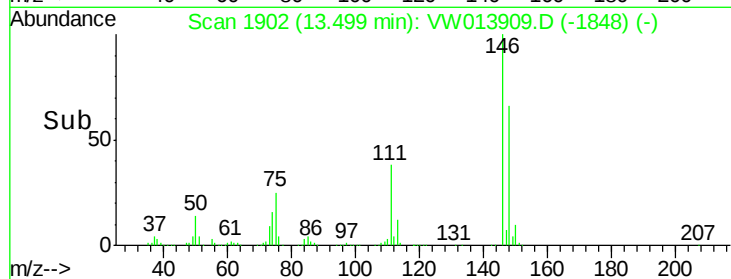
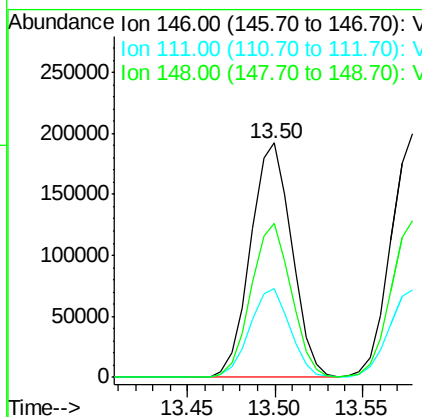
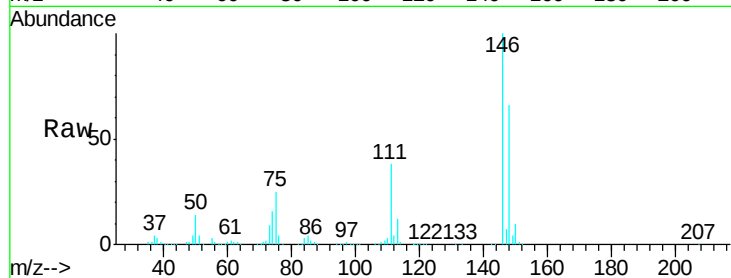




#63  
 1,3-Dichlorobenzene  
 Concen: 23.684 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

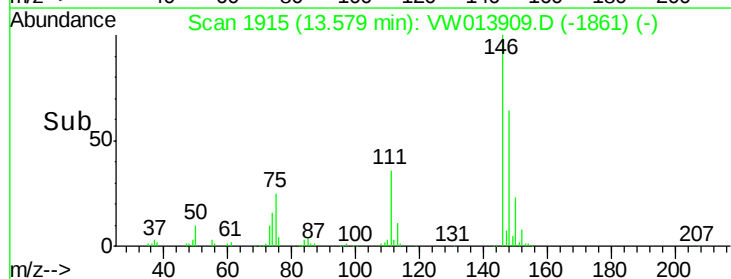
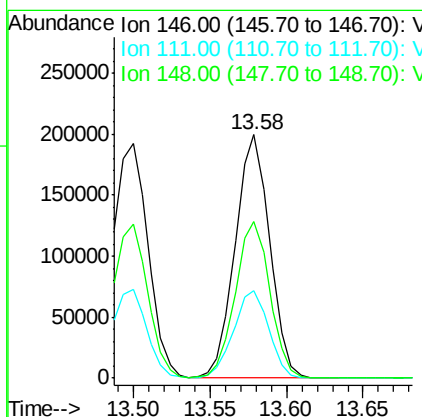
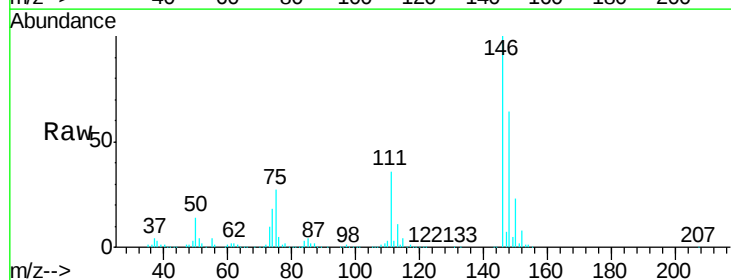
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02516

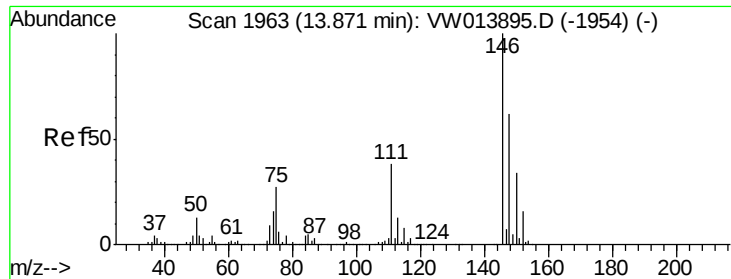
Tgt Ion:146 Resp: 314549  
 Ion Ratio Lower Upper  
 146 100  
 111 38.0 27.4 51.0  
 148 65.6 44.6 82.8



#64  
 1,4-Dichlorobenzene  
 Concen: 23.452 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

Tgt Ion:146 Resp: 312220  
 Ion Ratio Lower Upper  
 146 100  
 111 35.8 25.9 48.1  
 148 64.2 46.3 86.1





#65

1,2-Dichlorobenzene

Concen: 23.407 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02516

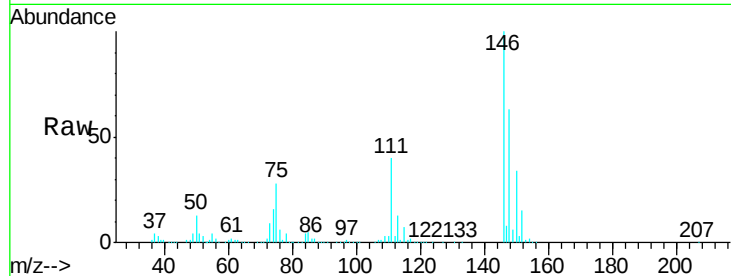
Tgt Ion:146 Resp: 281085

Ion Ratio Lower Upper

146 100

111 39.6 31.6 47.4

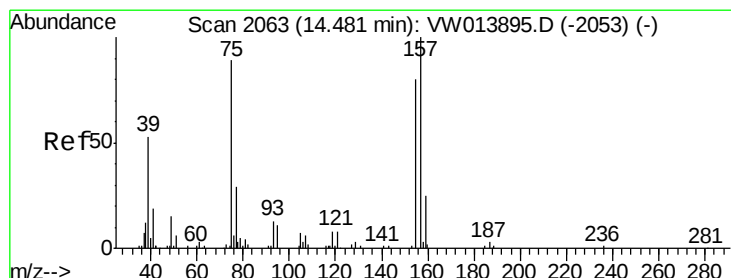
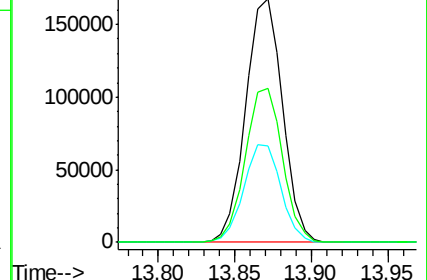
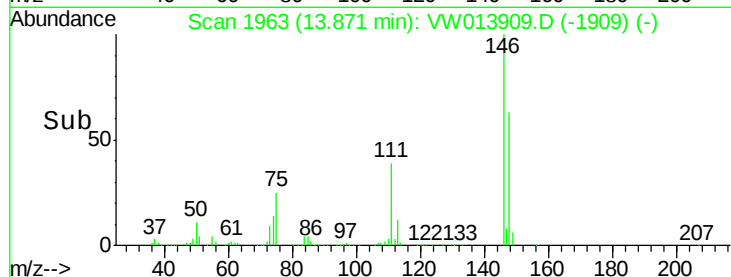
148 63.5 50.7 76.1



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: 19.336 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

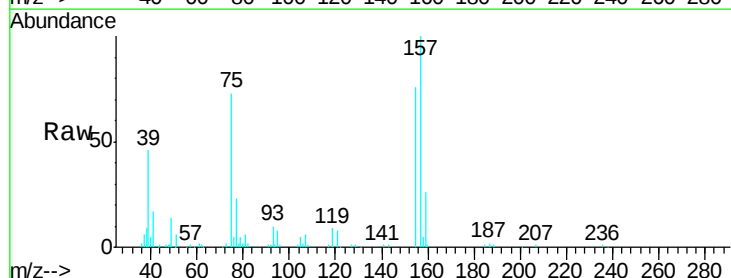
Tgt Ion: 75 Resp: 18601

Ion Ratio Lower Upper

75 100

157 136.8 91.0 136.6#

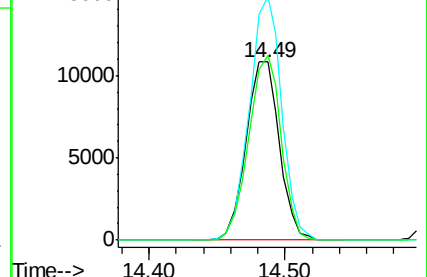
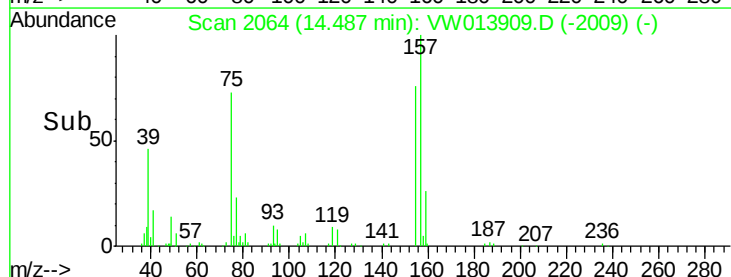
155 103.9 74.7 112.1

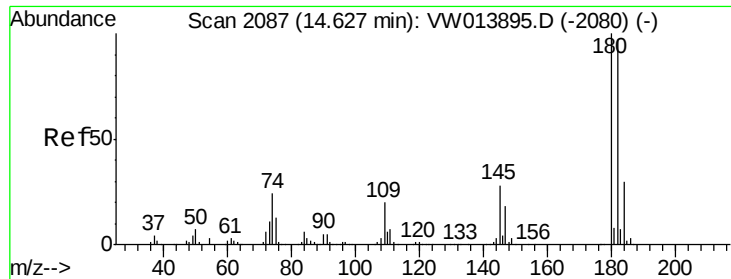


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

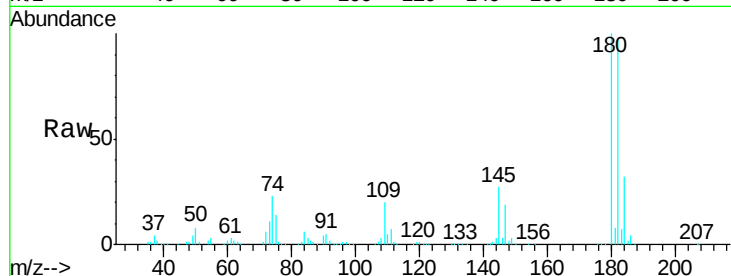




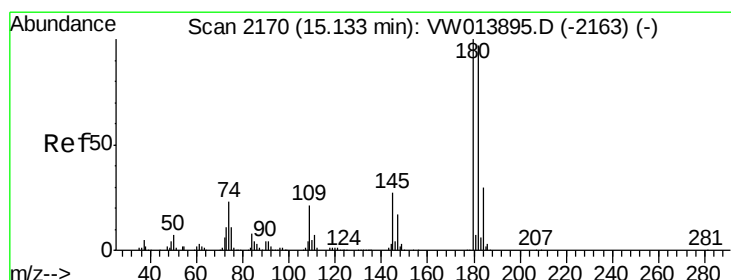
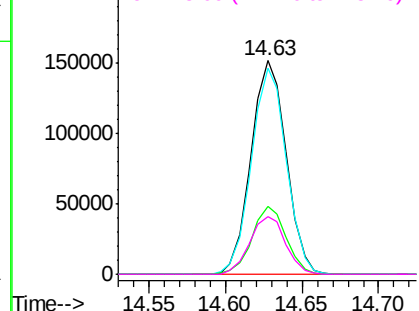
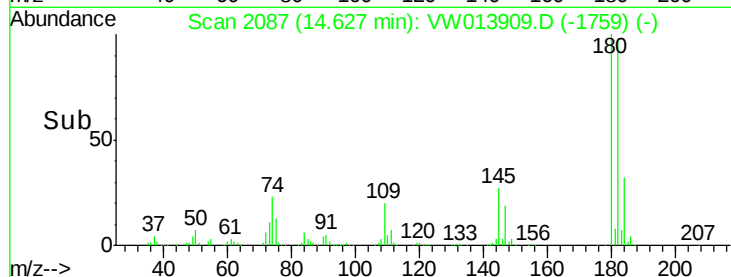
#67  
 1,3,5-Trichlorobenzene  
 Concen: 24.225 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02516

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 242319 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.9  | 76.8  | 115.2  |
| 184      | 30.7  | 23.8  | 35.8   |
| 145      | 27.4  | 21.9  | 32.9   |

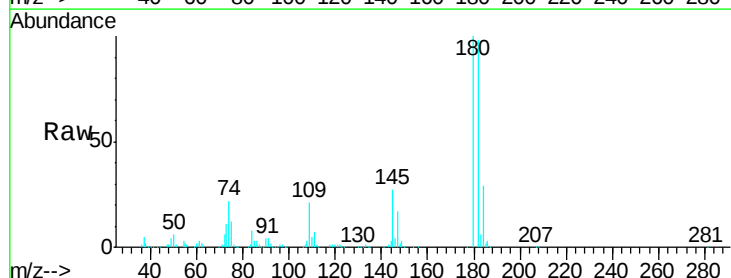


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

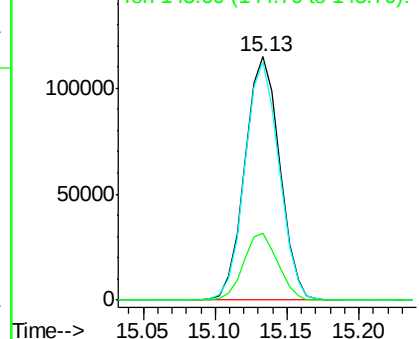
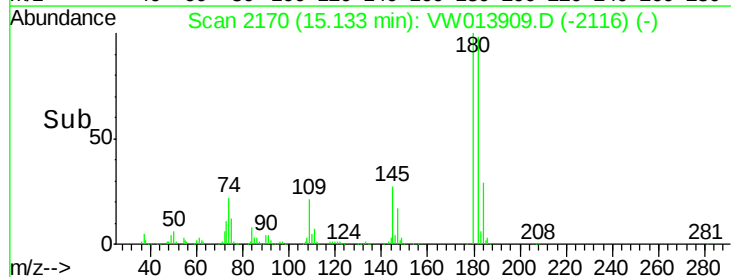


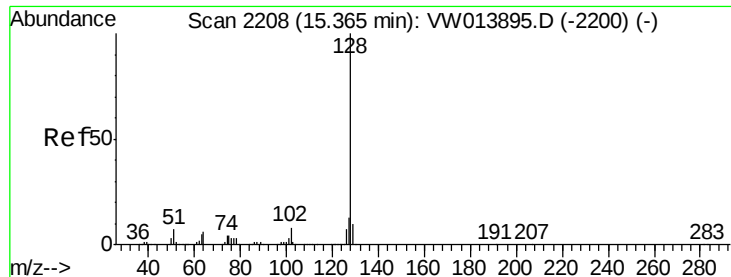
#68  
 1,2,4-trichlorobenzene  
 Concen: 23.705 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW013909.D  
 Acq: 04 Nov 2019 09:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 191965 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 96.2  | 78.9  | 118.3  |
| 145      | 27.1  | 22.7  | 34.1   |



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





#69

Naphthalene

Concen: 22.231 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

Instrument :

MSVOA\_W

ClientSampled :

VSTD02516

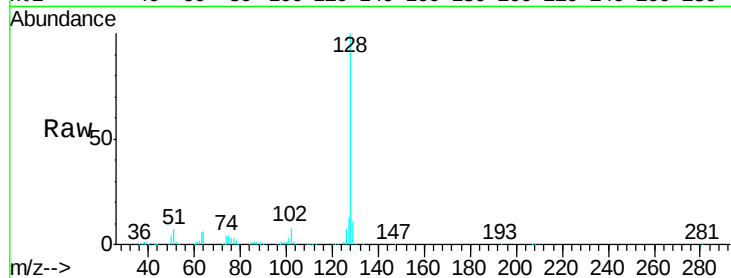
Tgt Ion:128 Resp: 341553

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

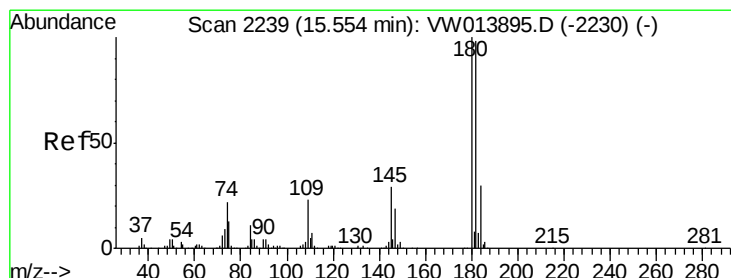
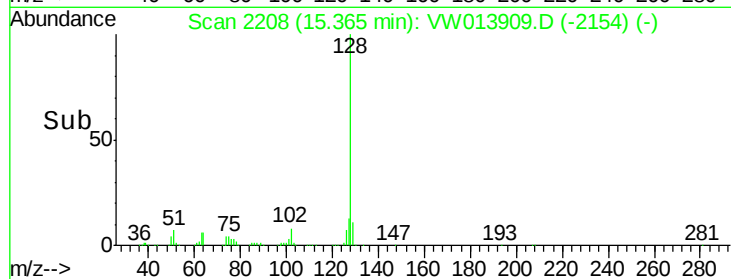
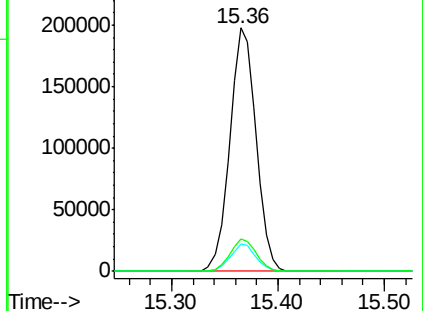
127 13.2 10.6 16.0



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: 22.695 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013909.D

Acq: 04 Nov 2019 09:46

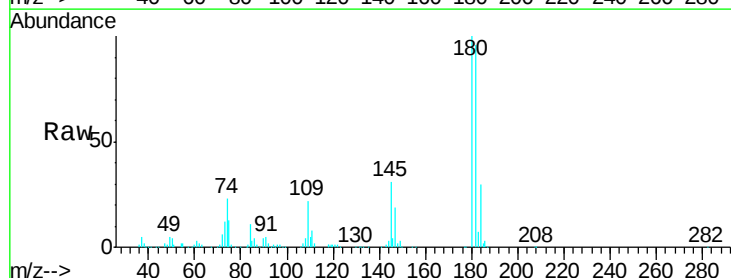
Tgt Ion:180 Resp: 169363

Ion Ratio Lower Upper

180 100

182 94.9 77.0 115.6

145 29.3 24.0 36.0



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

