

Data File : VW010844.D  
Acq On : 18 Jun 2019 14:09  
Operator : SY/VA  
Sample : VSTDCCC025EC  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02524

Quant Time: Jun 19 04:50:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jun 19 04:47:37 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 389621   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 348617   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 164514   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 120674   | 21.27    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.08% |
| 7) Chloroethane-d5             | 2.88   | 69    | 96308    | 22.38    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.52% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 264435   | 22.48    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 89.92% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 99449    | 44.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.34% |
| 24) Chloroform-d               | 7.65   | 84    | 176390   | 22.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 88.08% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 145661   | 22.33    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.32% |
| 29) Benzene-d6                 | 8.27   | 84    | 486292   | 23.36    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.44% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 156240   | 23.40    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 439230   | 23.49    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.96% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 69189    | 23.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.56% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 68772    | 43.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.20% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 126545   | 22.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 89.48% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 145773   | 23.28    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.12% |

#### Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.00 | 85  | 148370 | 23.781 | ug/L | 100    |
| 3) Chloromethane               | 2.21 | 50  | 164678 | 23.734 | ug/L | 98     |
| 5) Vinyl chloride              | 2.35 | 62  | 151765 | 23.858 | ug/L | 99     |
| 6) Bromomethane                | 2.77 | 94  | 69657  | 24.309 | ug/L | 99     |
| 8) Chloroethane                | 2.92 | 64  | 89457  | 24.013 | ug/L | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 205339 | 24.398 | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 115888 | 23.535 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 105354 | 23.255 | ug/L | 96     |
| 13) Acetone                    | 4.12 | 43  | 93131  | 38.934 | ug/L | 100    |
| 14) Carbon disulfide           | 4.38 | 76  | 294232 | 22.008 | ug/L | 99     |
| 15) Methyl Acetate             | 4.67 | 43  | 80851  | 21.053 | ug/L | 99     |
| 16) Methylene chloride         | 4.92 | 84  | 126240 | 23.611 | ug/L | 94     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 325095 | 21.670 | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 116414 | 23.046 | ug/L | 97     |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 249699 | 23.723 | ug/L | 100    |
| 21) 2-Butanone                 | 7.17 | 43  | 123248 | 37.722 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 132075 | 22.977 | ug/L | 99     |

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Response via : Initial Calibration

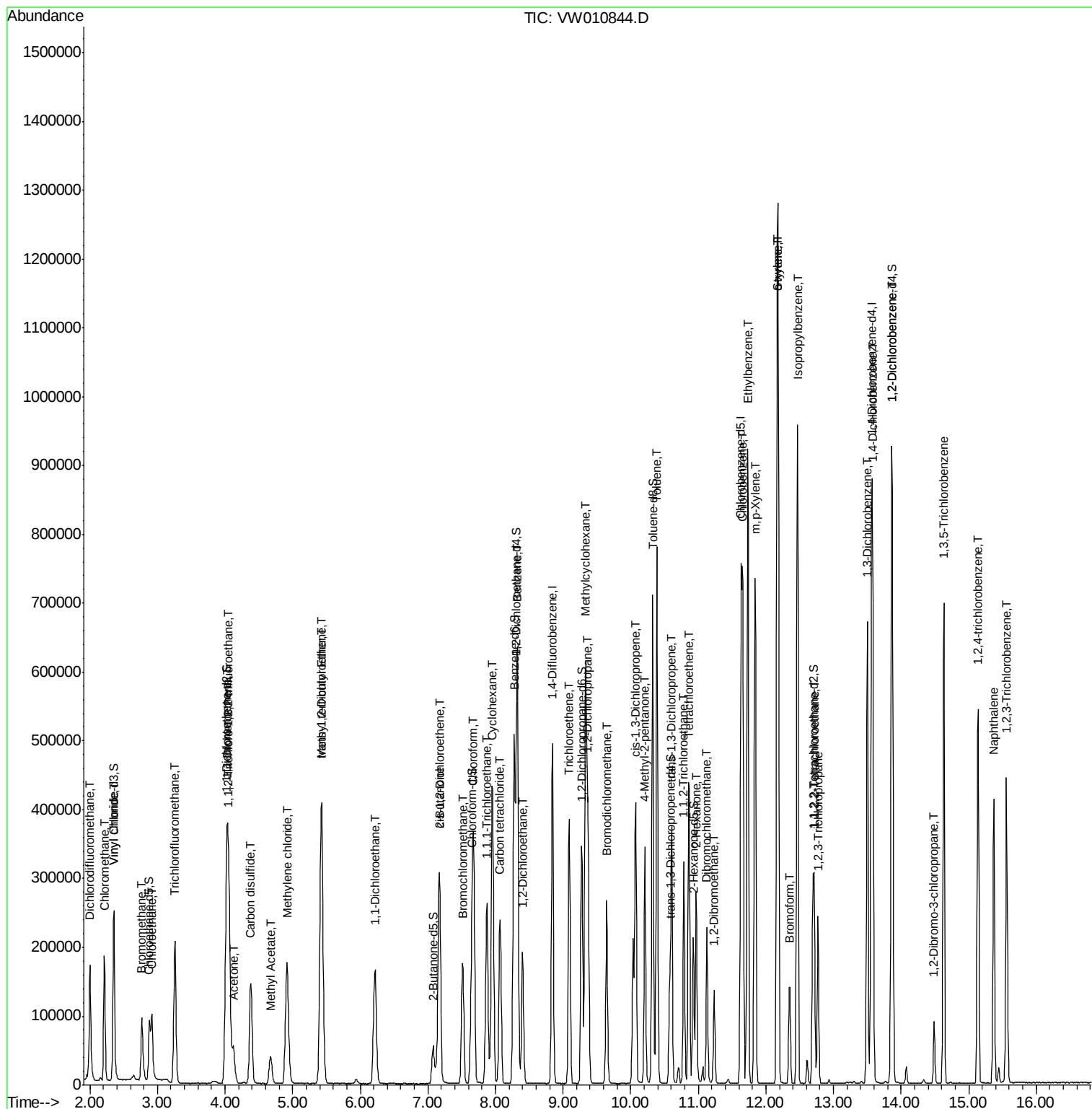
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 53590    | 22.728 | ug/L  | 97       |
| 25) Chloroform                 | 7.68  | 83   | 300450   | 24.802 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 172947   | 22.327 | ug/L  | 100      |
| 30) Cyclohexane                | 7.95  | 56   | 240132   | 23.247 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 204709   | 24.570 | ug/L  | 100      |
| 32) Carbon tetrachloride       | 8.07  | 117  | 174514   | 25.121 | ug/L  | 98       |
| 34) Benzene                    | 8.32  | 78   | 511730   | 23.865 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 130557   | 23.759 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 229240   | 23.680 | ug/L  | 100      |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 141592   | 23.691 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.65  | 83   | 170685   | 24.253 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 217207   | 23.741 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 244343   | 42.551 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 533056   | 23.736 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 188378   | 24.453 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 96284    | 22.630 | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.87 | 164  | 98567    | 23.938 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 183959   | 43.216 | ug/L  | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 110758   | 23.490 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 91337    | 22.420 | ug/L  | 97       |
| 52) Chlorobenzene              | 11.66 | 112  | 331947   | 23.708 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 619646   | 24.109 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 219176   | 23.664 | ug/L  | 100      |
| 55) o-xylene                   | 12.17 | 106  | 213051   | 23.722 | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 371869   | 23.795 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.47 | 105  | 598987   | 24.358 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 128287   | 22.504 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 99454    | 22.069 | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 63438    | 22.736 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 256441   | 24.158 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 253494   | 23.596 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 231724   | 23.333 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 22410    | 21.406 | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 197791   | 24.551 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 165168   | 24.566 | ug/L  | 100      |
| 69) Naphthalene                | 15.37 | 128  | 331349   | 23.310 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 147398   | 24.469 | ug/L  | 99       |

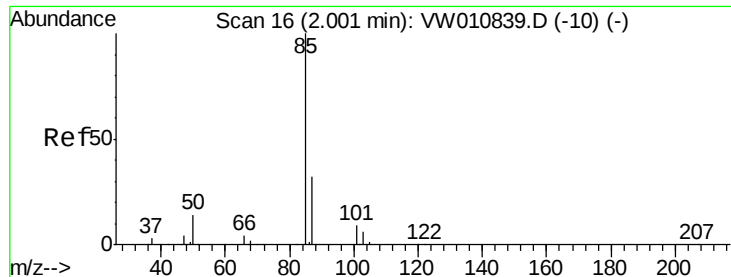
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.781 ug/L

RT: 2.00 min Scan# 16

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampled :

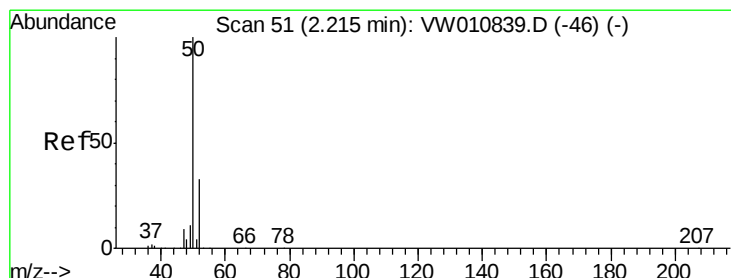
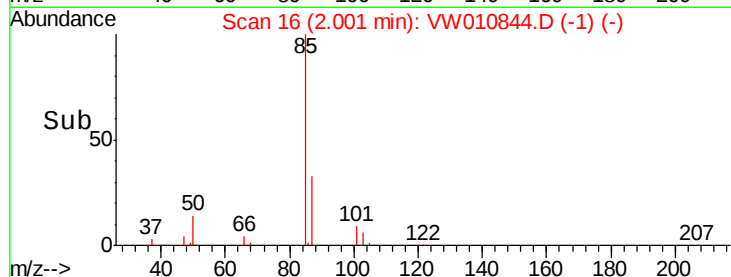
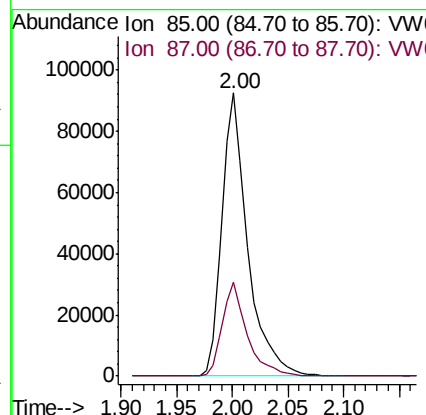
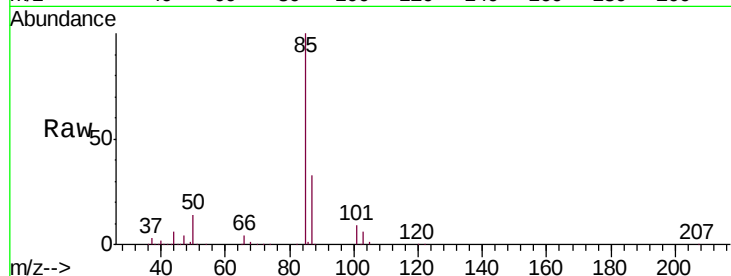
VSTD02524

Tgt Ion: 85 Resp: 148370

Ion Ratio Lower Upper

85 100

87 32.1 22.4 41.6



#3

Chloromethane

Concen: 23.734 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010844.D

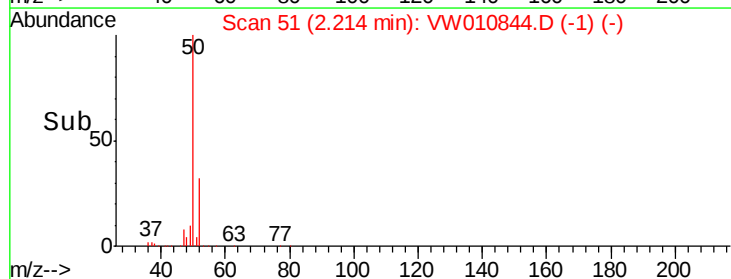
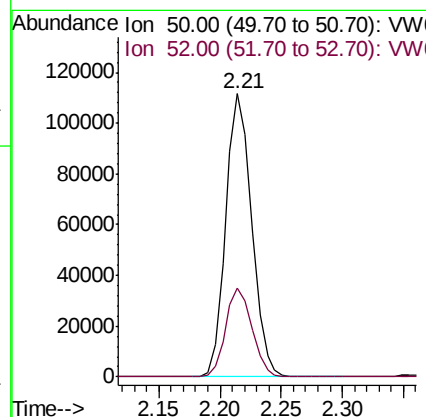
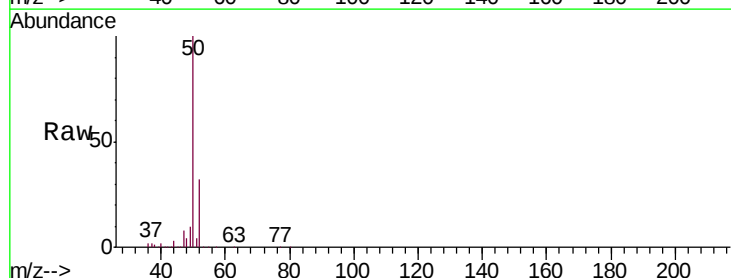
Acq: 18 Jun 2019 14:09

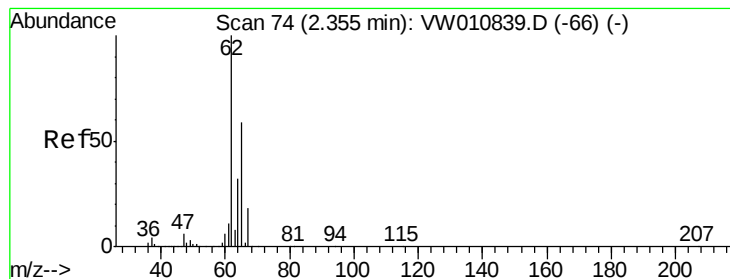
Tgt Ion: 50 Resp: 164678

Ion Ratio Lower Upper

50 100

52 31.6 22.8 42.4





#5

Vinyl chloride

Concen: 23.858 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

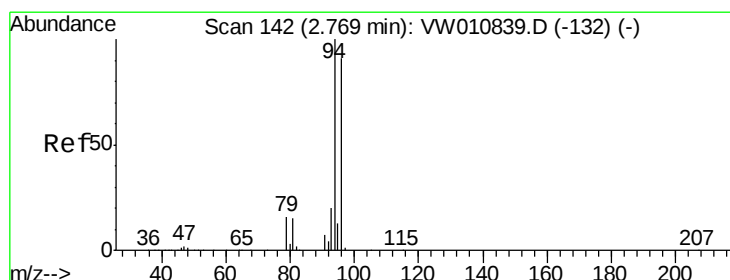
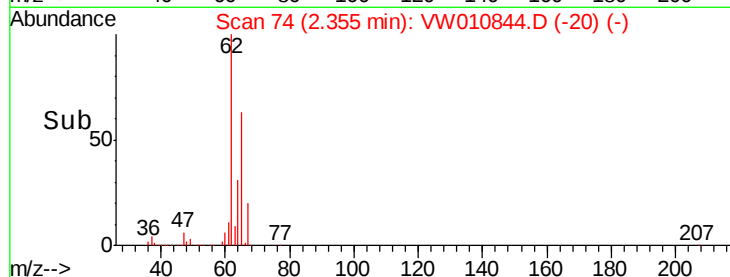
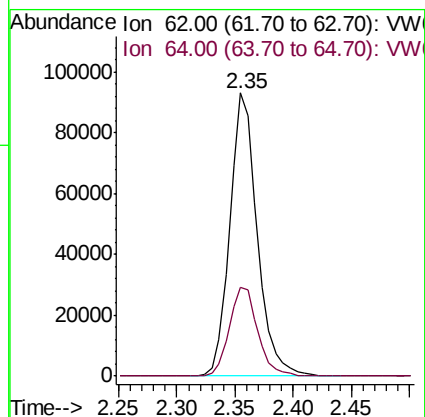
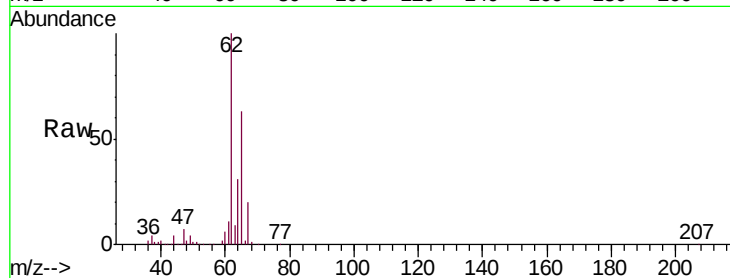
VSTD02524

Tgt Ion: 62 Resp: 151765

Ion Ratio Lower Upper

62 100

64 31.5 22.4 41.6



#6

Bromomethane

Concen: 24.309 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW010844.D

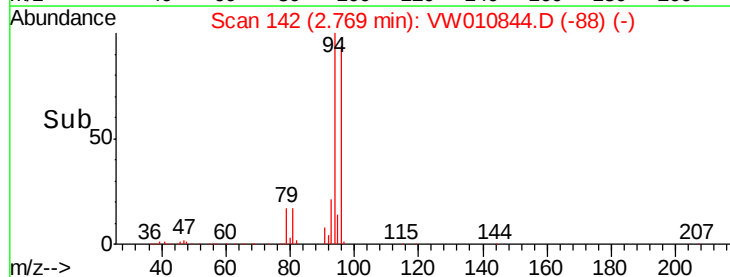
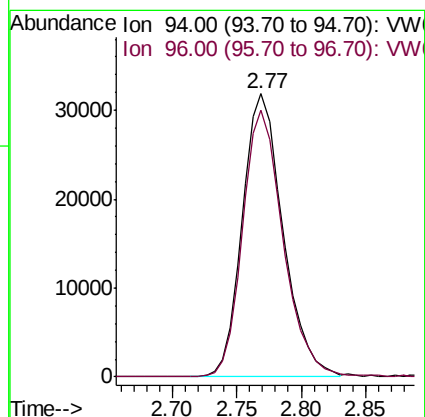
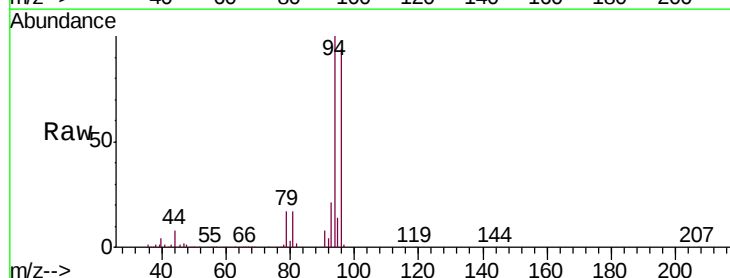
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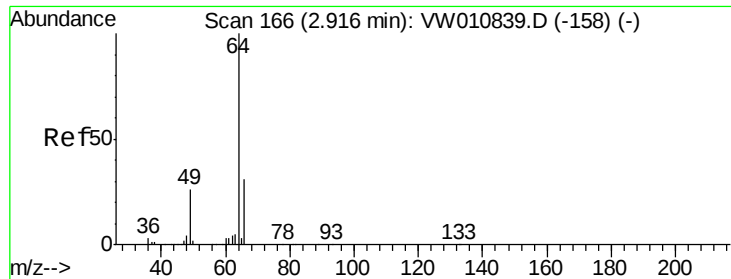
Tgt Ion: 94 Resp: 69657

Ion Ratio Lower Upper

94 100

96 94.2 9.5 180.7





#8

Chloroethane

Concen: 24.013 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

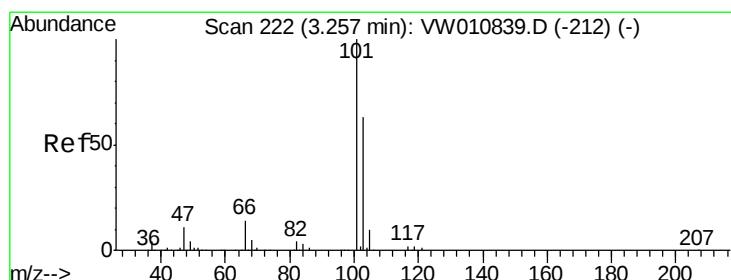
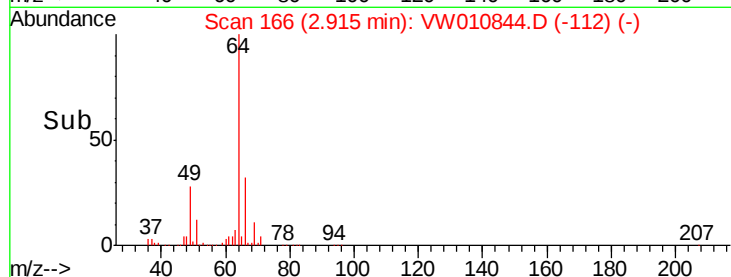
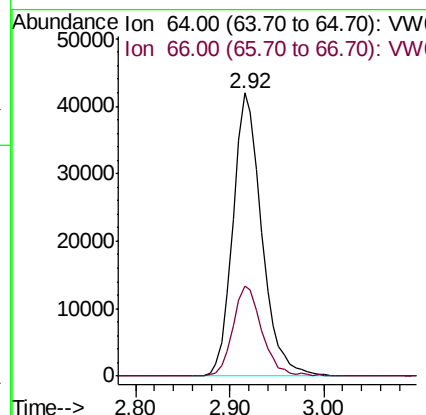
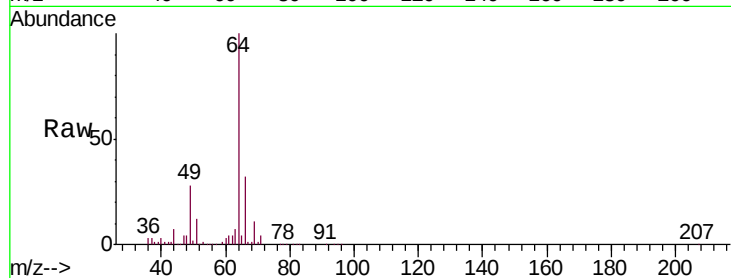
VSTD02524

Tgt Ion: 64 Resp: 89457

Ion Ratio Lower Upper

64 100

66 32.0 21.8 40.4



#9

Trichlorofluoromethane

Concen: 24.398 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW010844.D

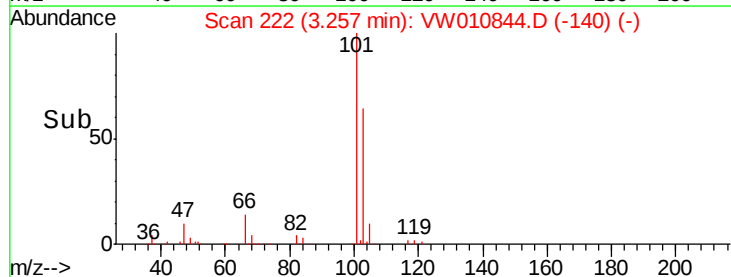
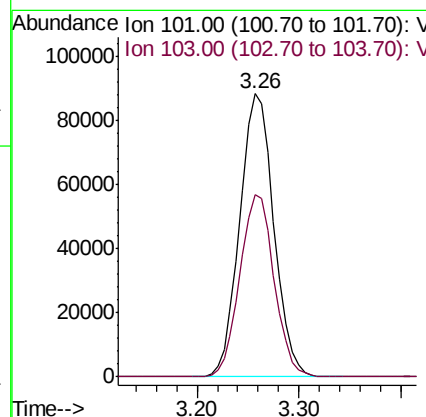
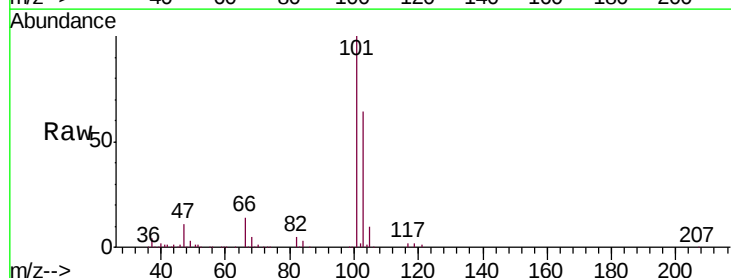
Acq: 18 Jun 2019 14:09

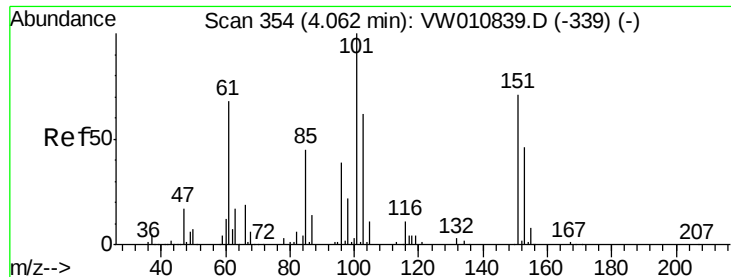
Tgt Ion: 101 Resp: 205339

Ion Ratio Lower Upper

101 100

103 64.5 45.1 83.7





#11

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

Concen: 23.535 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

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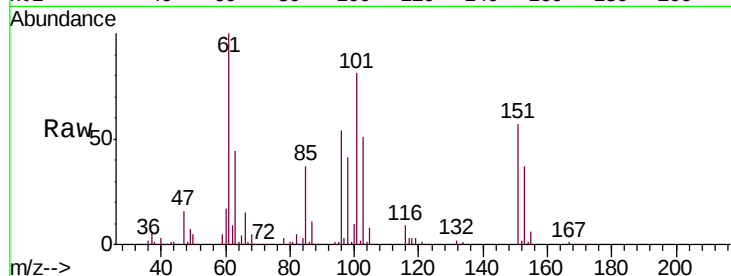
Tgt Ion:101 Resp: 115888

Ion Ratio Lower Upper

101 100

85 45.2 35.9 53.9

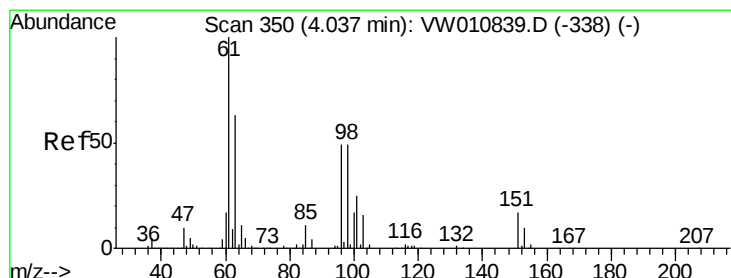
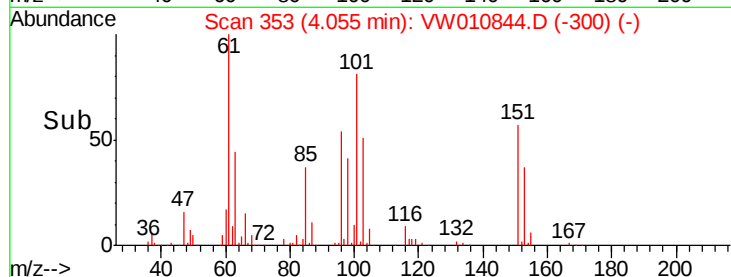
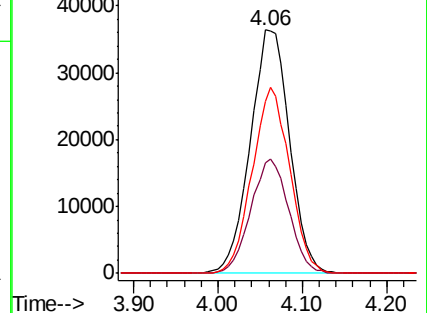
151 72.7 58.6 88.0



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: 23.255 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

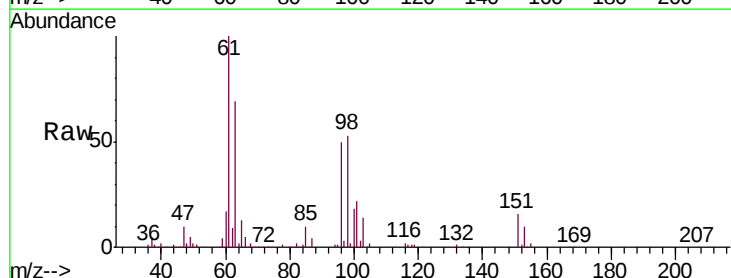
Tgt Ion: 96 Resp: 105354

Ion Ratio Lower Upper

96 100

61 200.2 139.9 259.7

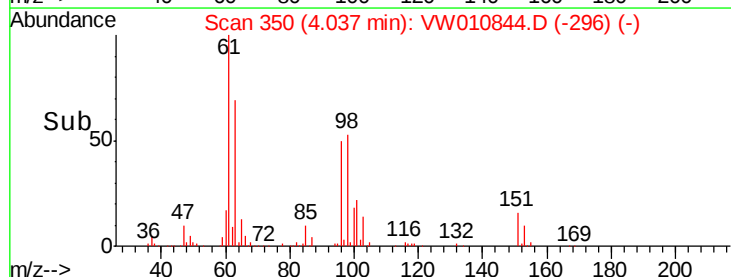
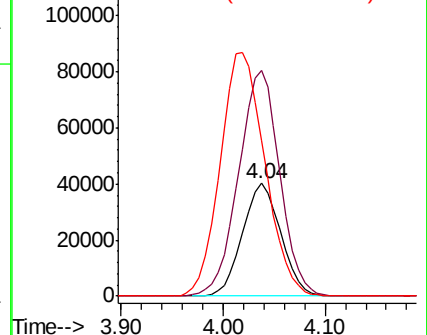
63 138.4 89.2 165.8

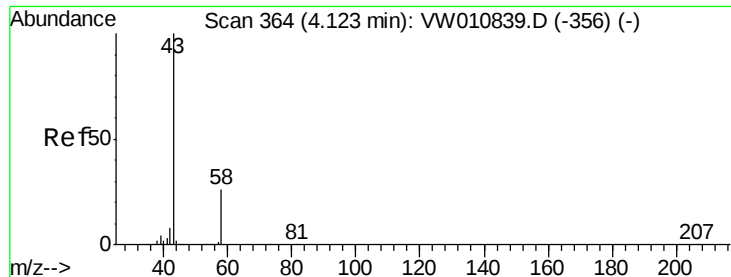


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 38.934 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

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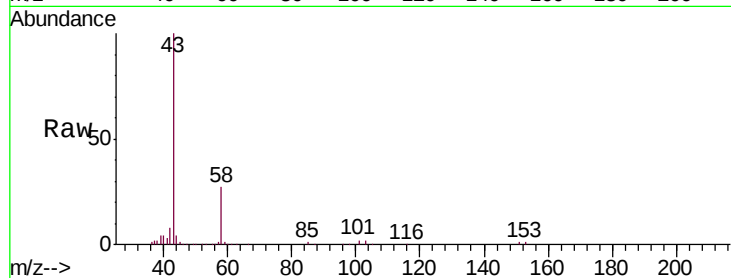
VSTD02524

Tgt Ion: 43 Resp: 93131

Ion Ratio Lower Upper

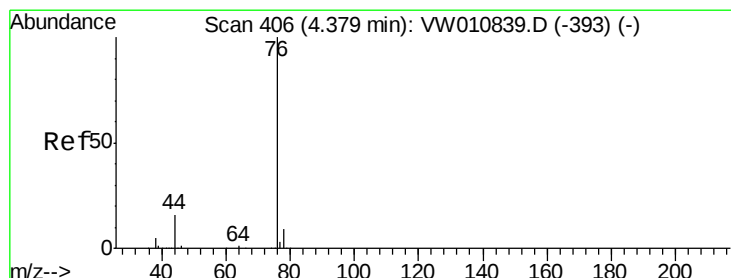
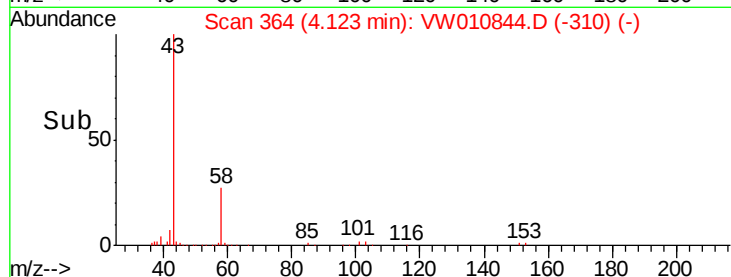
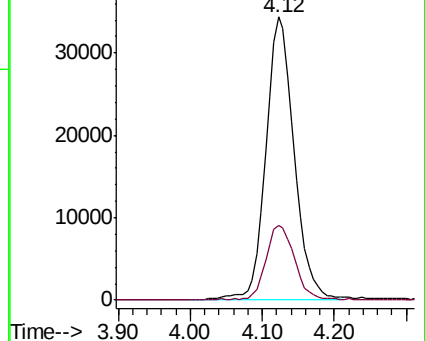
43 100

58 27.1 0.0 54.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 22.008 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW010844.D

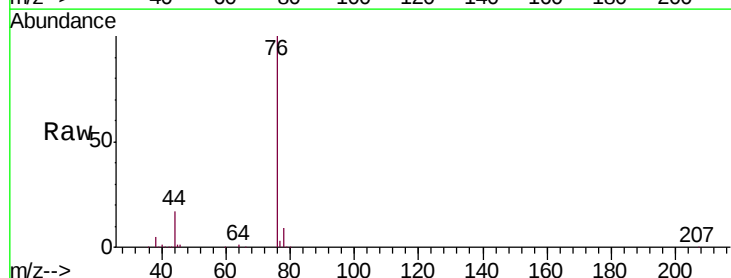
Acq: 18 Jun 2019 14:09

Tgt Ion: 76 Resp: 294232

Ion Ratio Lower Upper

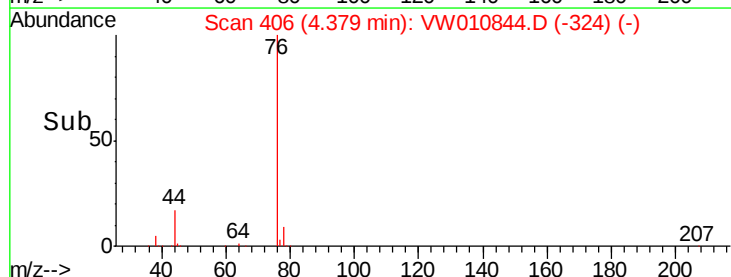
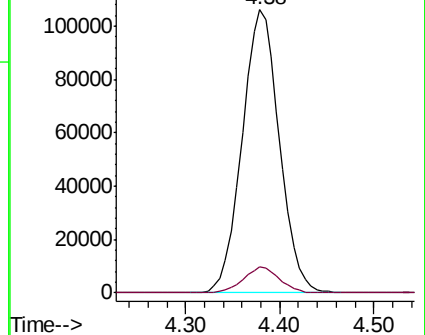
76 100

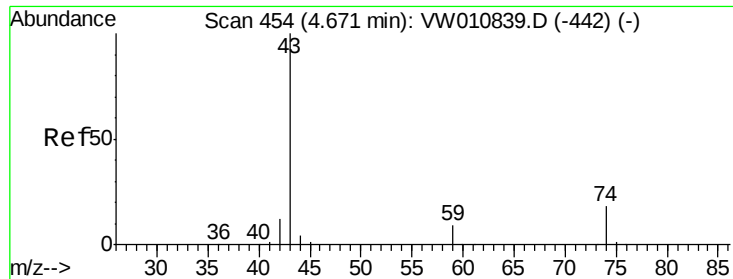
78 9.0 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

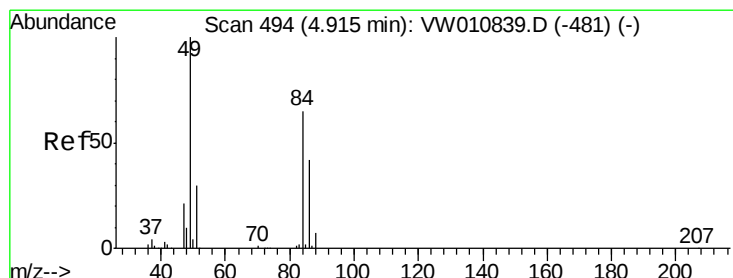
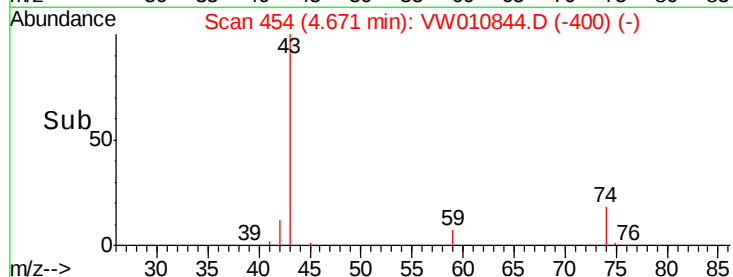
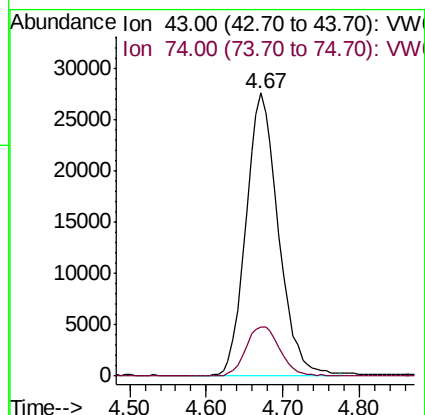
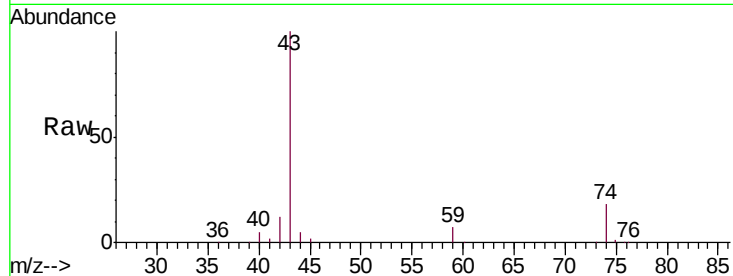




#15  
Methyl Acetate  
Concen: 21.053 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

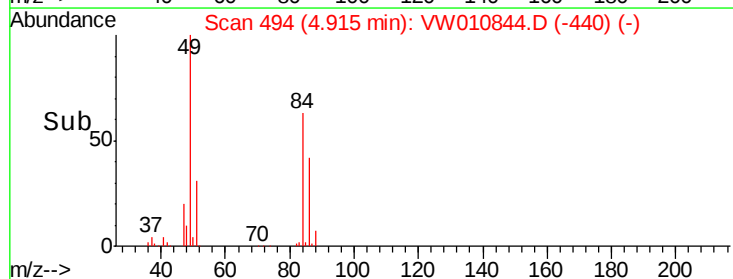
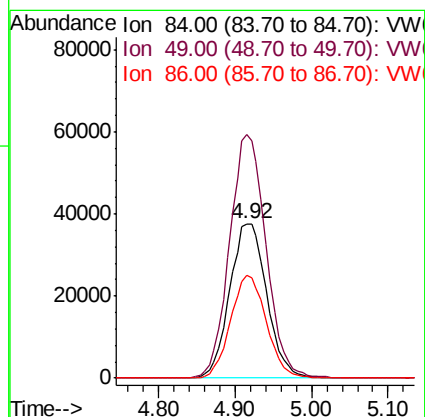
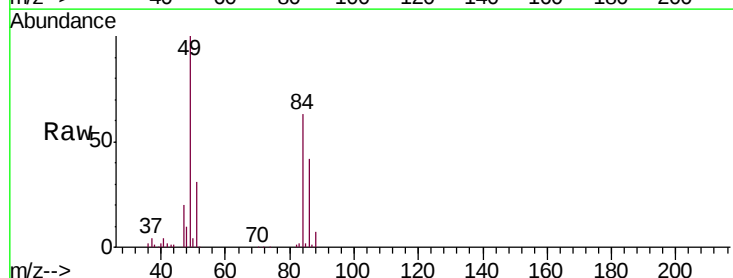
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02524

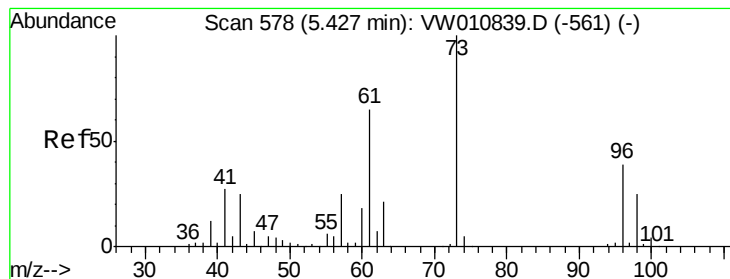
Tgt Ion: 43 Resp: 80851  
Ion Ratio Lower Upper  
43 100  
74 18.5 15.0 22.6



#16  
Methylene chloride  
Concen: 23.611 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

Tgt Ion: 84 Resp: 126240  
Ion Ratio Lower Upper  
84 100  
49 157.9 105.2 195.4  
86 66.3 43.7 81.1





#17

Methyl tert-butyl Ether

Concen: 21.670 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

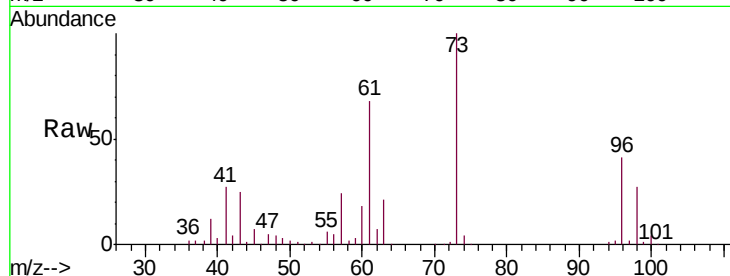
Tgt Ion: 73 Resp: 325095

Ion Ratio Lower Upper

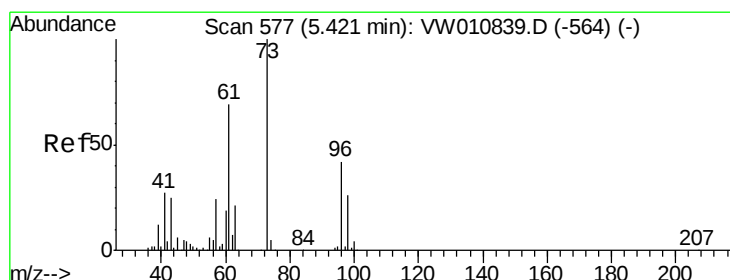
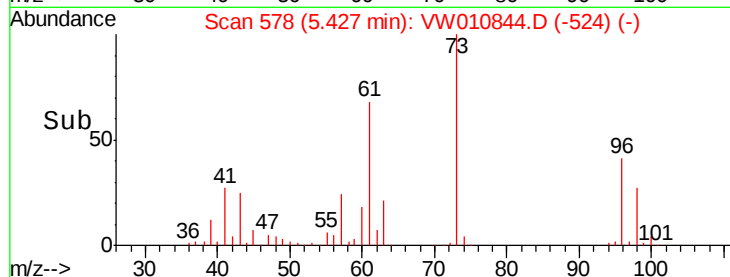
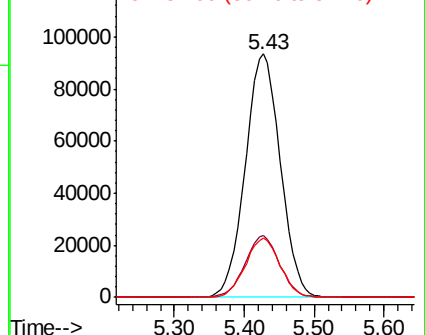
73 100

43 25.1 19.8 29.6

57 24.0 19.2 28.8



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: 23.046 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

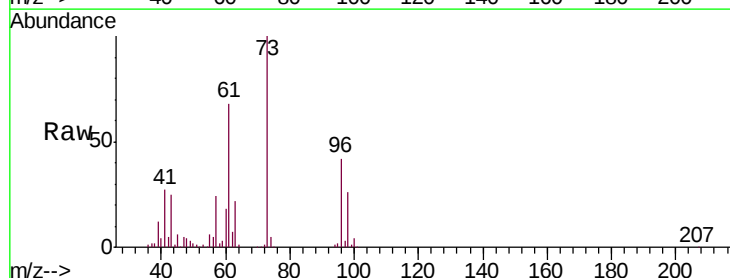
Tgt Ion: 96 Resp: 116414

Ion Ratio Lower Upper

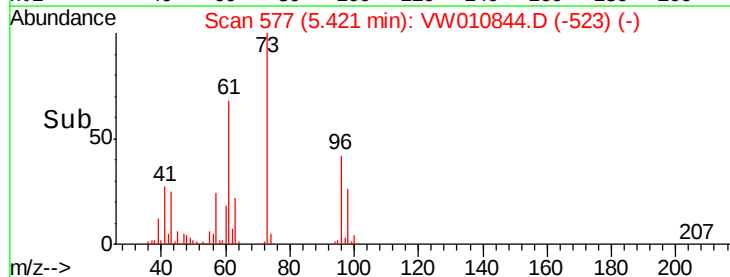
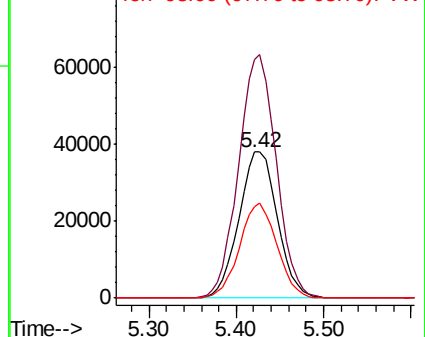
96 100

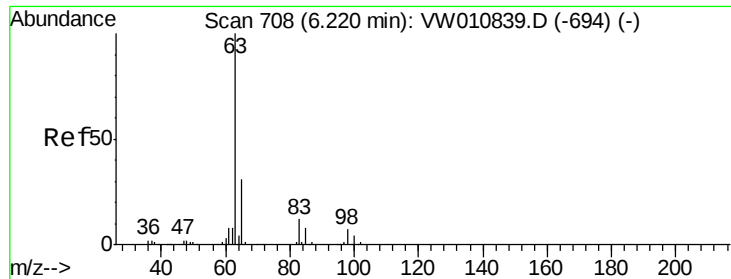
61 163.6 111.5 207.1

98 62.3 44.1 81.9



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

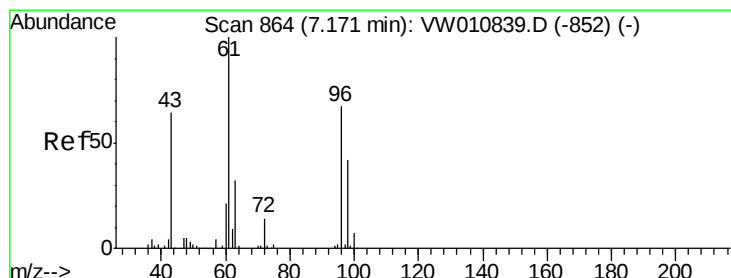
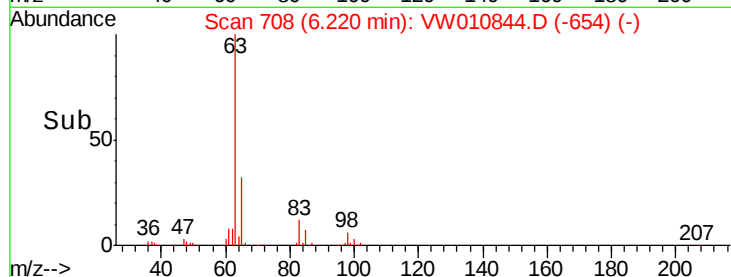
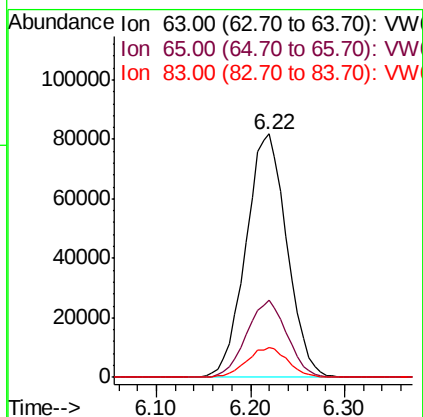
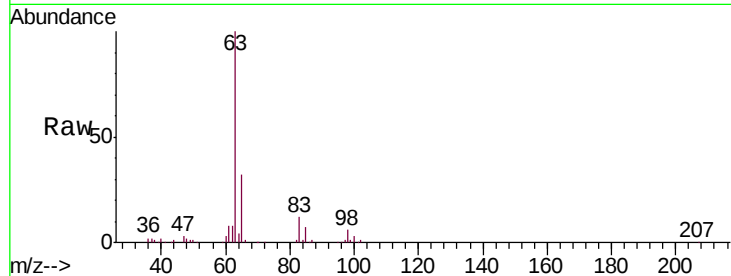




#19  
 1,1-Dichloroethane  
 Concen: 23.723 ug/L  
 RT: 6.22 min Scan# 708  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

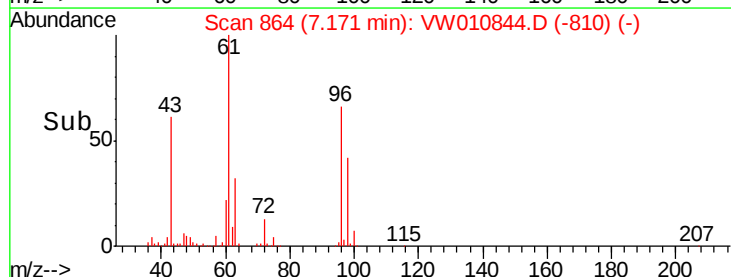
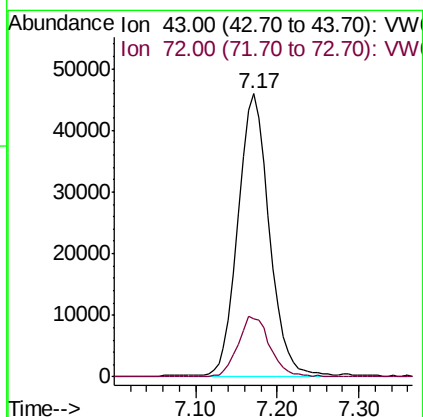
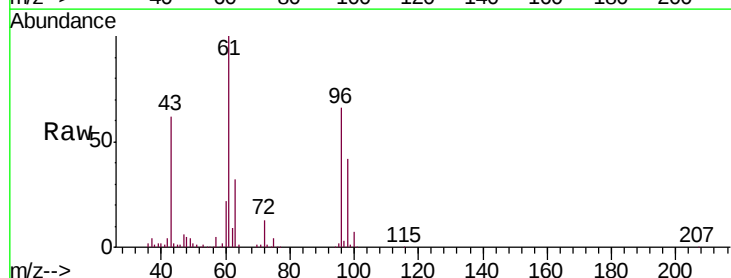
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02524

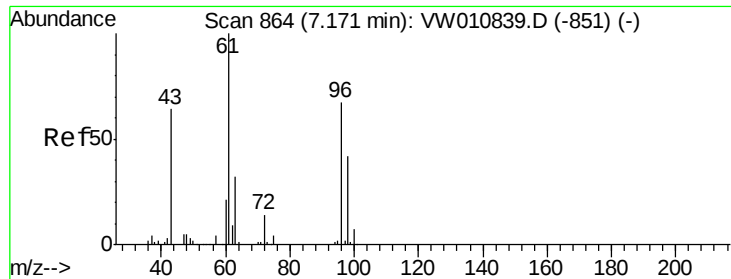
Tgt Ion: 63 Resp: 249699  
 Ion Ratio Lower Upper  
 63 100  
 65 31.6 22.2 41.2  
 83 12.4 8.6 16.0



#21  
 2-Butanone  
 Concen: 37.722 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Tgt Ion: 43 Resp: 123248  
 Ion Ratio Lower Upper  
 43 100  
 72 21.5 11.0 33.0



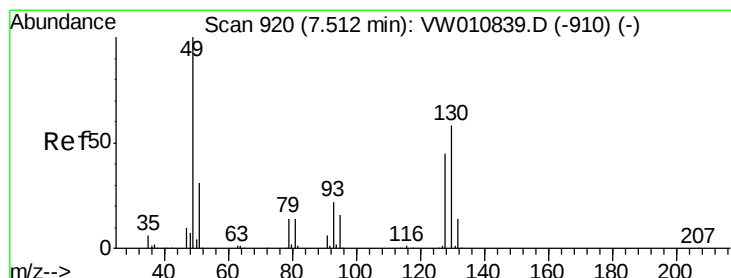
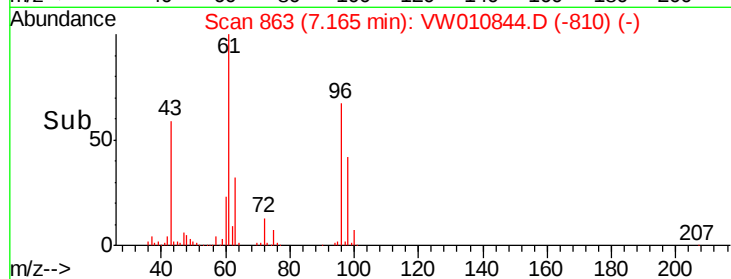
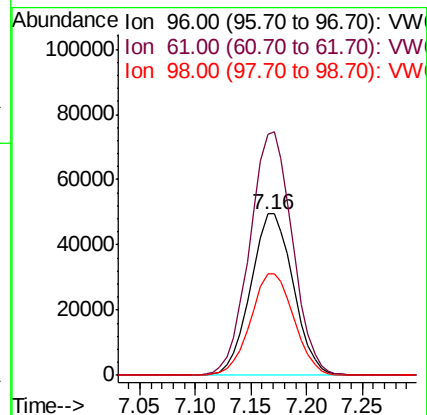
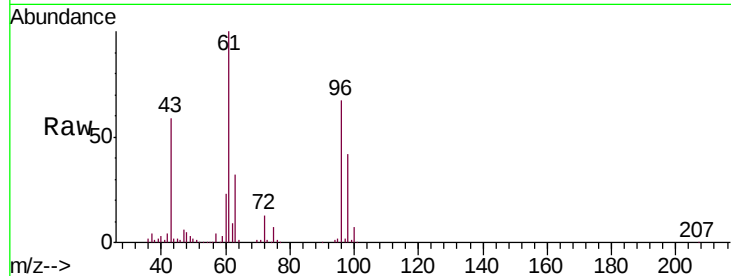


#22

cis-1,2-Dichloroethene  
 Concen: 22.977 ug/L  
 RT: 7.16 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02524

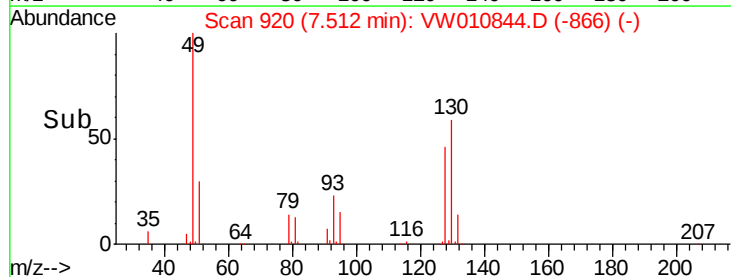
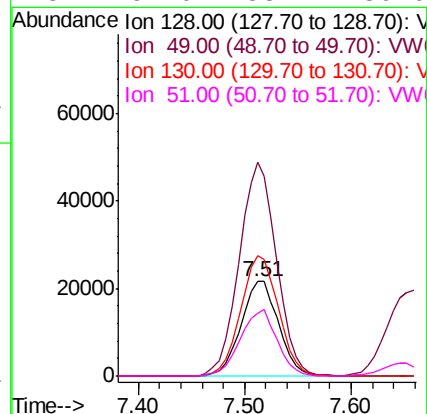
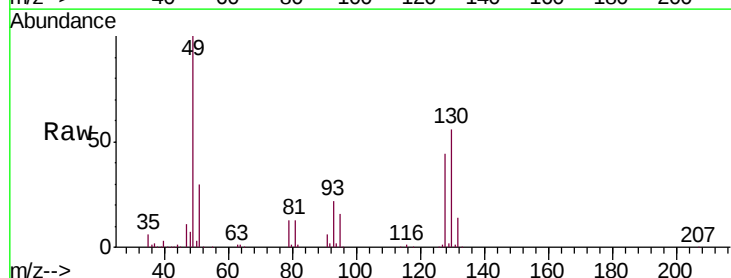
Tgt Ion: 96 Resp: 132075  
 Ion Ratio Lower Upper  
 96 100  
 61 149.2 105.3 195.6  
 98 63.0 44.6 82.8

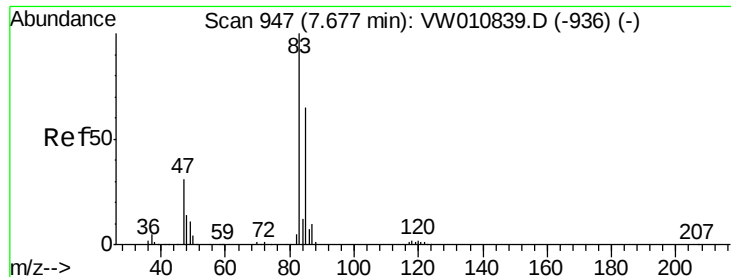


#23

Bromochloromethane  
 Concen: 22.728 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Tgt Ion: 128 Resp: 53590  
 Ion Ratio Lower Upper  
 128 100  
 49 226.6 155.1 288.1  
 130 127.4 91.3 169.6  
 51 67.0 53.4 80.0





#25

Chloroform

Concen: 24.802 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

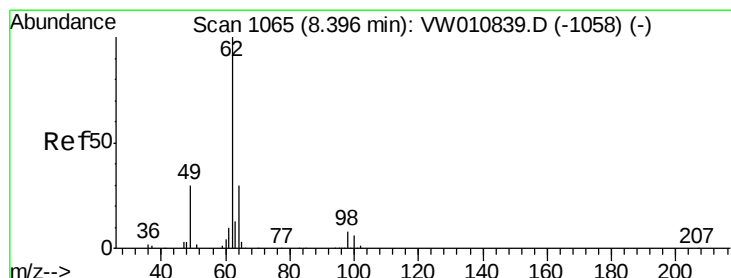
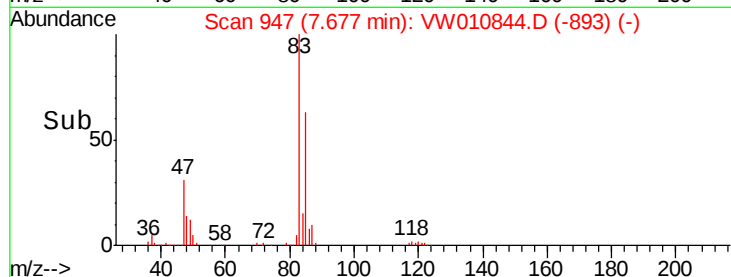
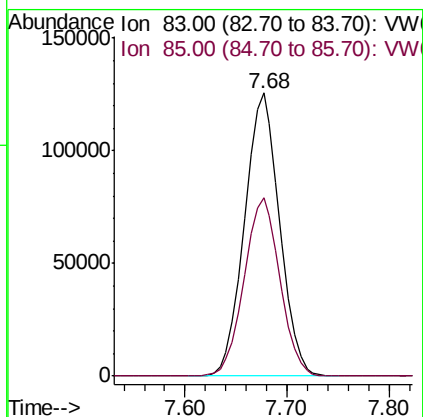
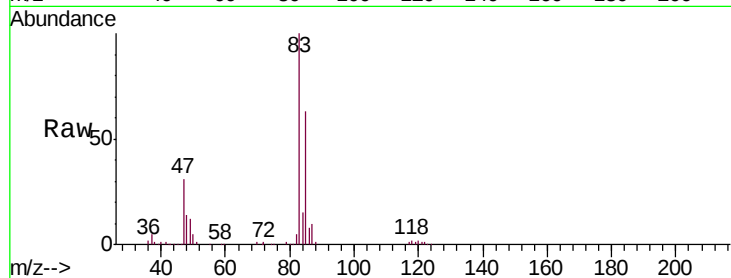
VSTD02524

Tgt Ion: 83 Resp: 300450

Ion Ratio Lower Upper

83 100

85 64.2 45.4 84.4



#27

1,2-Dichloroethane

Concen: 22.327 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW010844.D

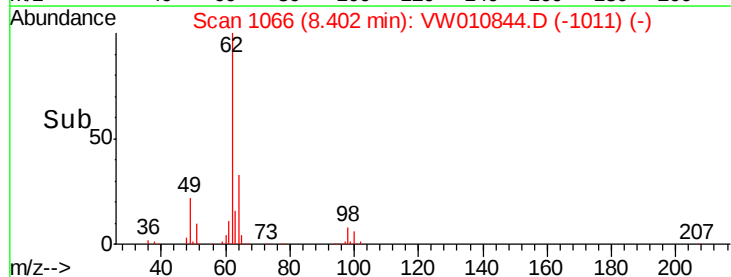
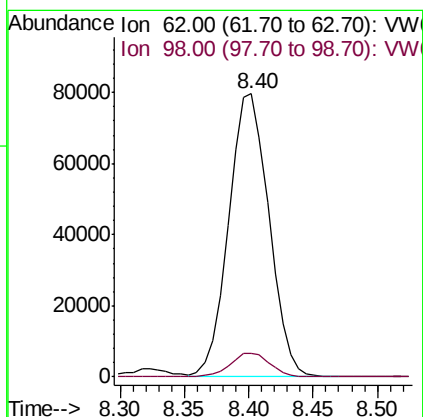
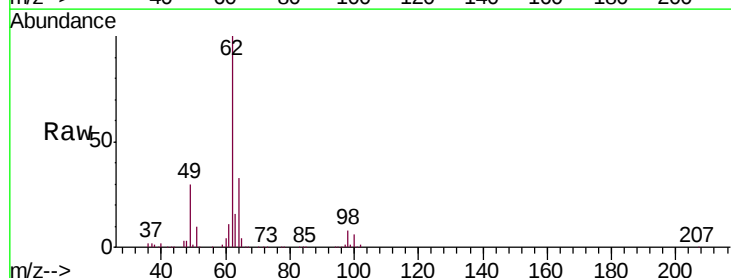
Acq: 18 Jun 2019 14:09

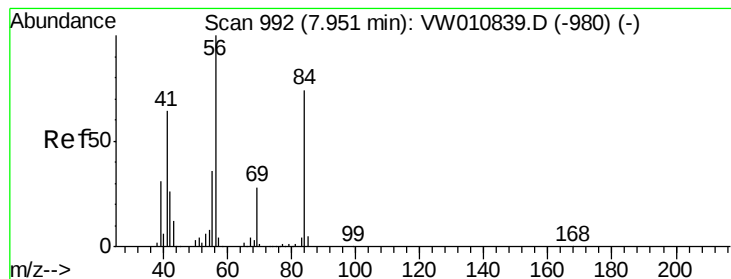
Tgt Ion: 62 Resp: 172947

Ion Ratio Lower Upper

62 100

98 8.2 6.6 10.0





#30

Cyclohexane

Concen: 23.247 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

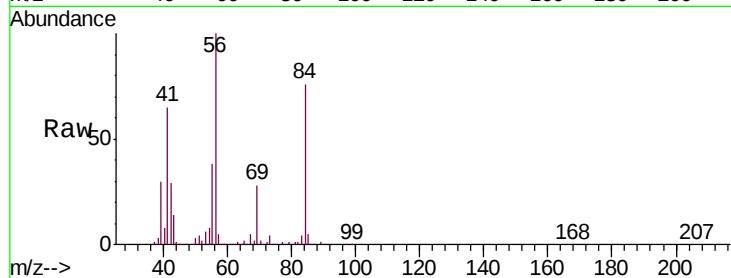
Tgt Ion: 56 Resp: 240132

Ion Ratio Lower Upper

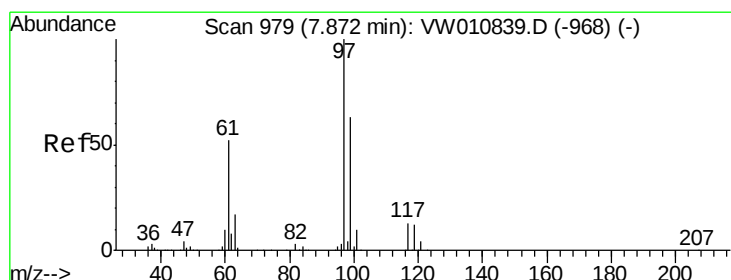
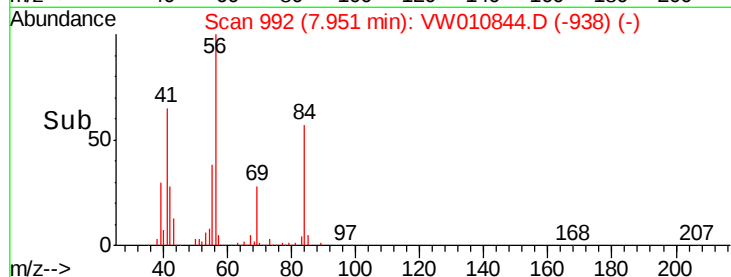
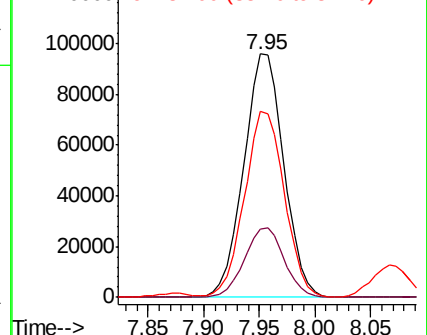
56 100

69 28.4 22.6 33.8

84 76.3 61.1 91.7



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: 24.570 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

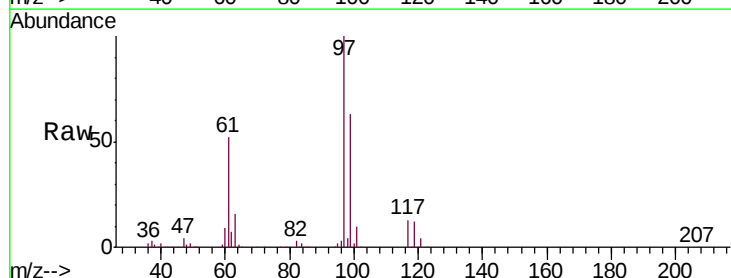
Tgt Ion: 97 Resp: 204709

Ion Ratio Lower Upper

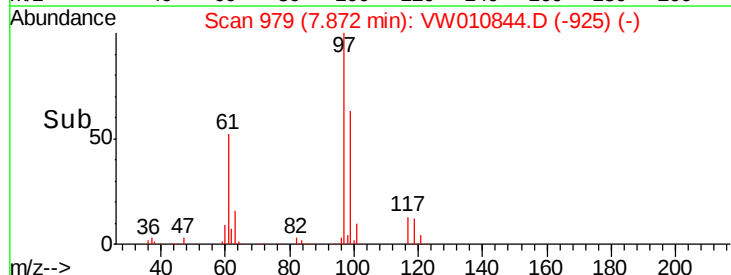
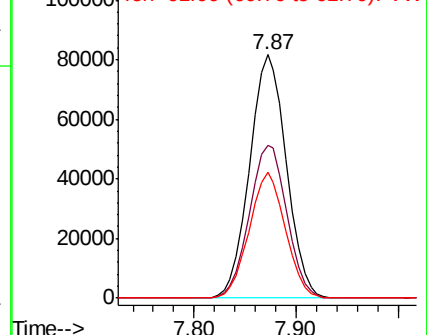
97 100

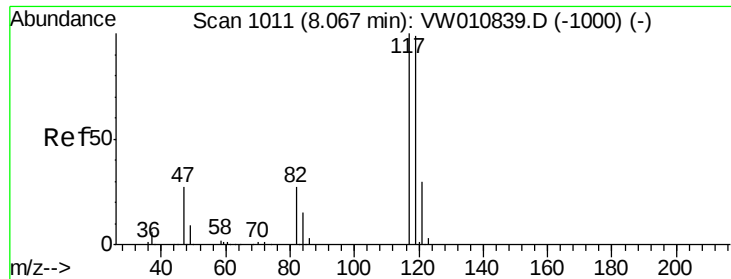
99 63.9 51.0 76.4

61 50.9 40.4 60.6



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

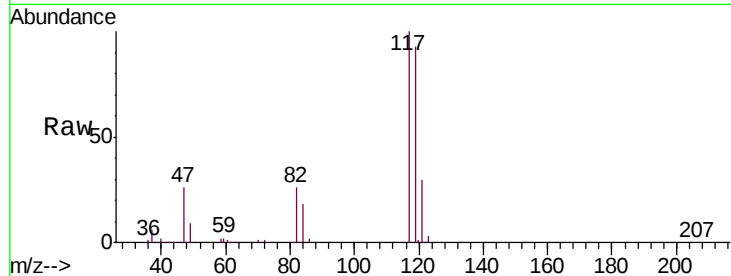




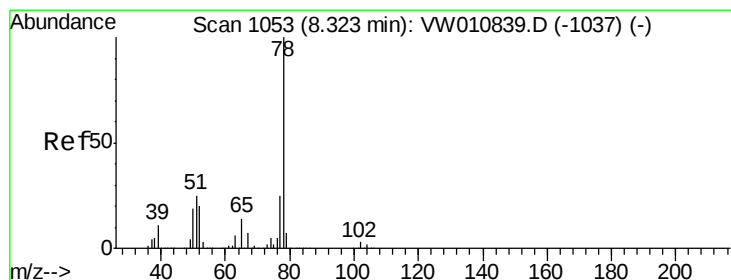
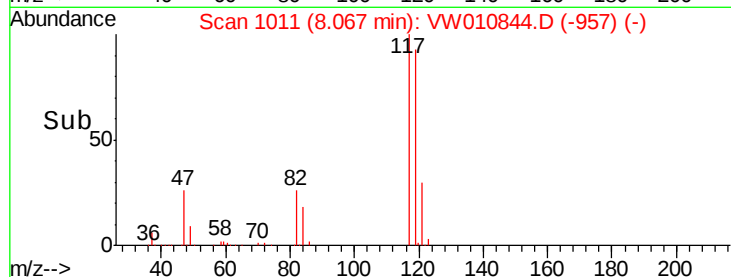
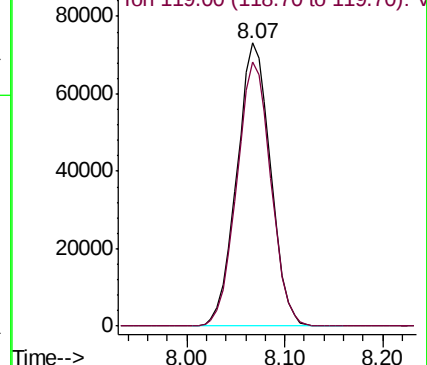
#32  
Carbon tetrachloride  
Concen: 25.121 ug/L  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02524

Tgt Ion: 117 Resp: 174514  
Ion Ratio Lower Upper  
117 100  
119 94.1 77.0 115.4

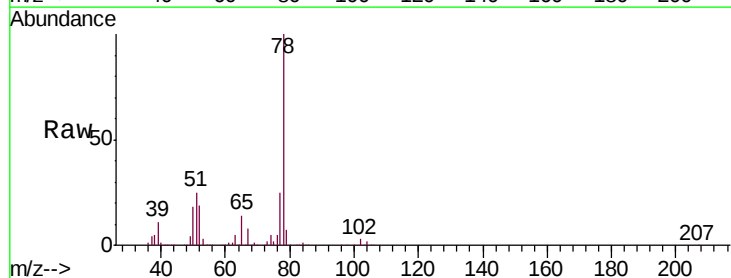


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V

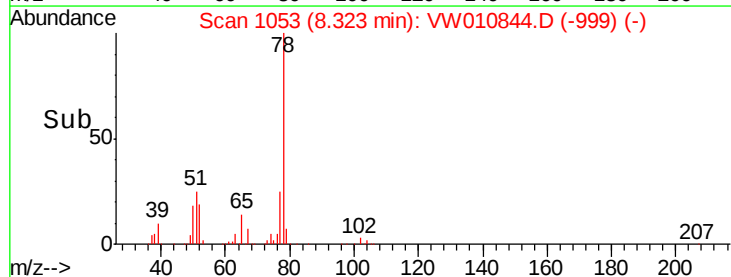
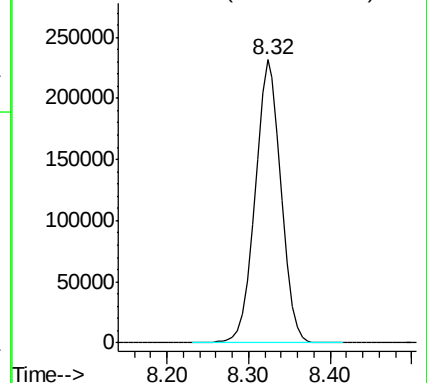


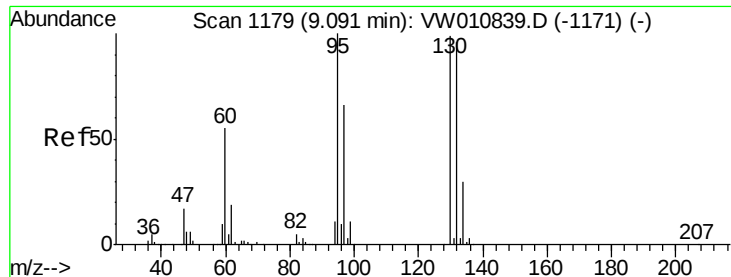
#34  
Benzene  
Concen: 23.865 ug/L  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

Tgt Ion: 78 Resp: 511730



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.759 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

Tgt Ion: 95 Resp: 130557

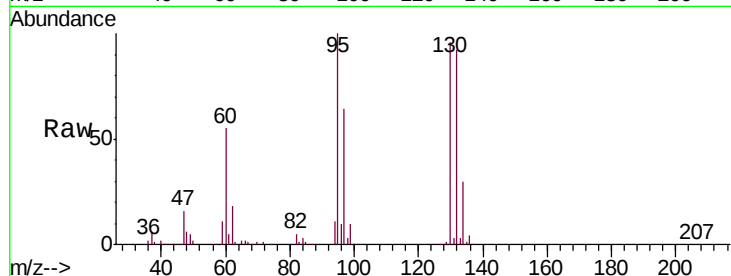
Ion Ratio Lower Upper

95 100

97 64.0 45.4 84.2

132 92.2 65.0 120.6

130 96.5 68.3 126.9

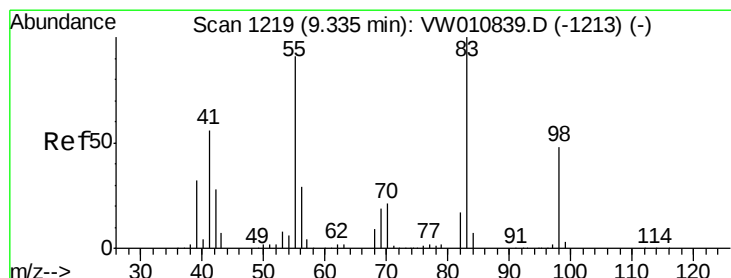
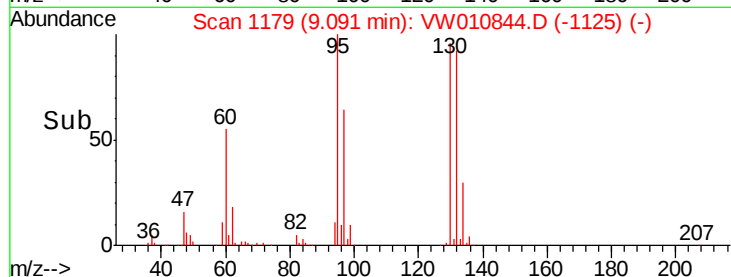
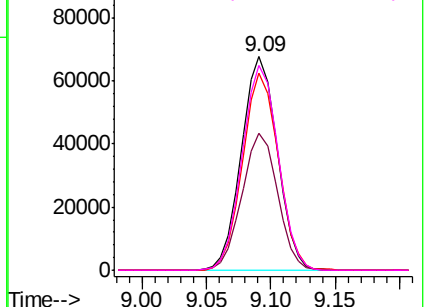


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 23.680 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

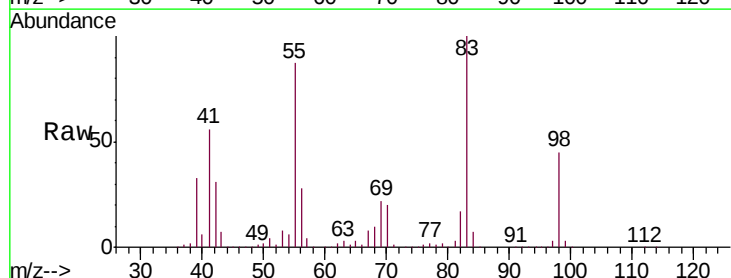
Tgt Ion: 83 Resp: 229240

Ion Ratio Lower Upper

83 100

55 89.4 71.6 107.4

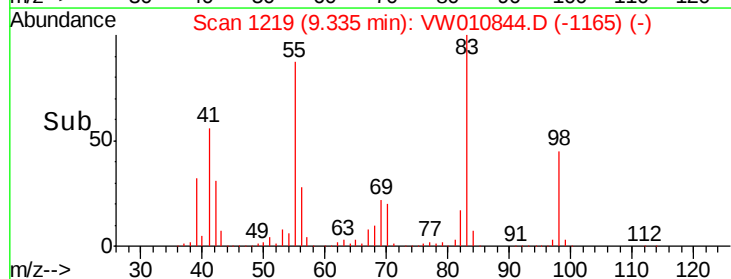
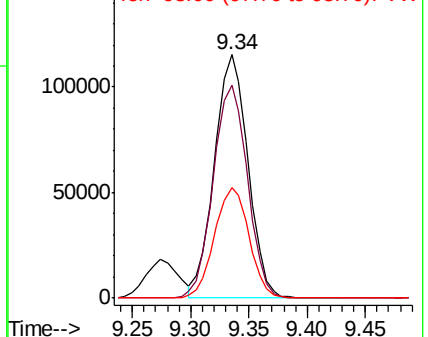
98 47.0 38.2 57.2

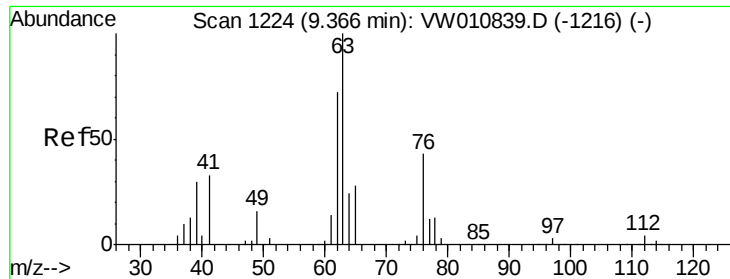


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

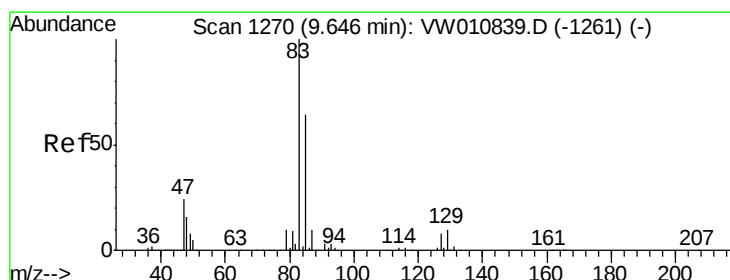
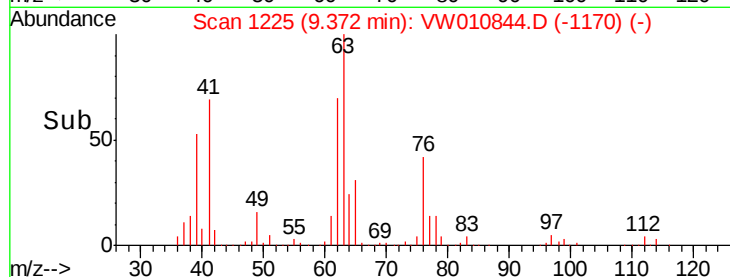
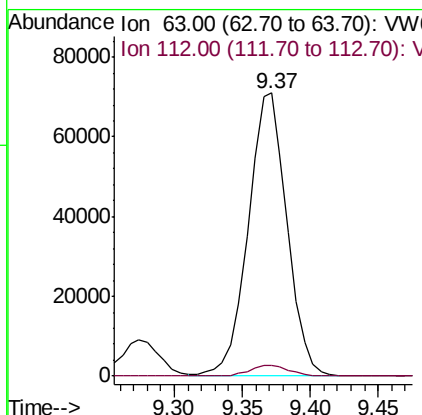
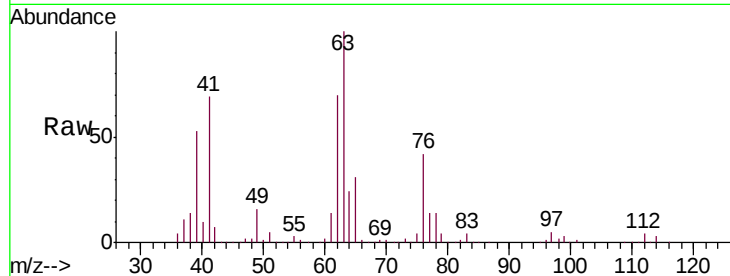




#40  
 1,2-Dichloropropane  
 Concen: 23.691 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.01 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

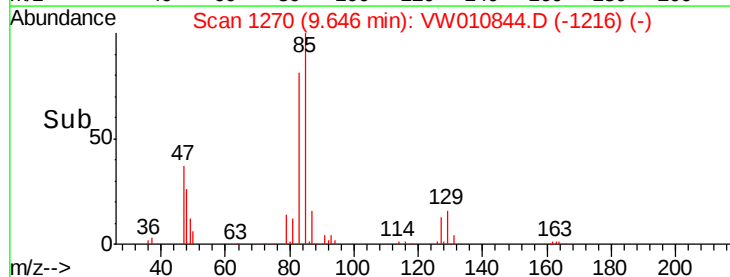
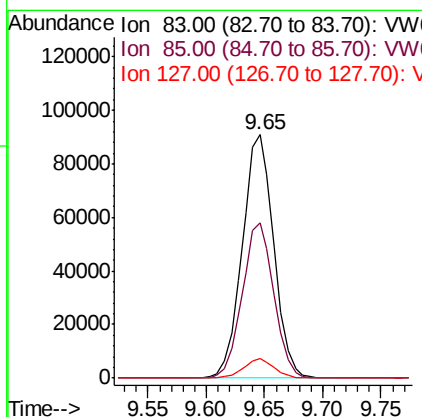
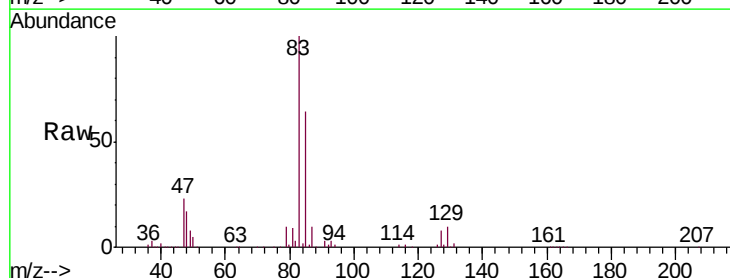
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02524

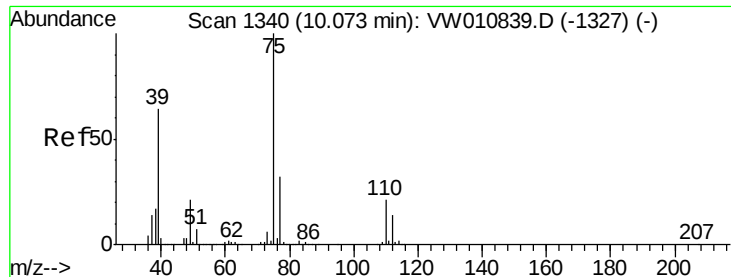
Tgt Ion: 63 Resp: 141592  
 Ion Ratio Lower Upper  
 63 100  
 112 4.0 3.1 4.7



#41  
 Bromodichloromethane  
 Concen: 24.253 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Tgt Ion: 83 Resp: 170685  
 Ion Ratio Lower Upper  
 83 100  
 85 63.6 44.7 82.9  
 127 8.2 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 23.741 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

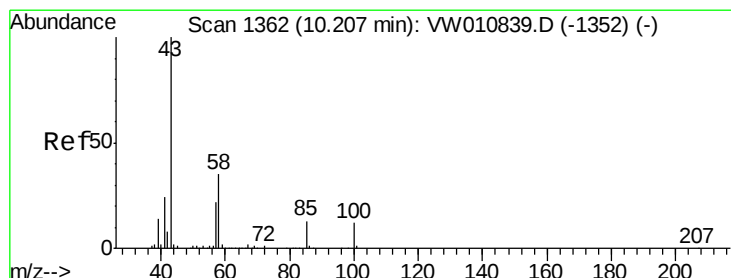
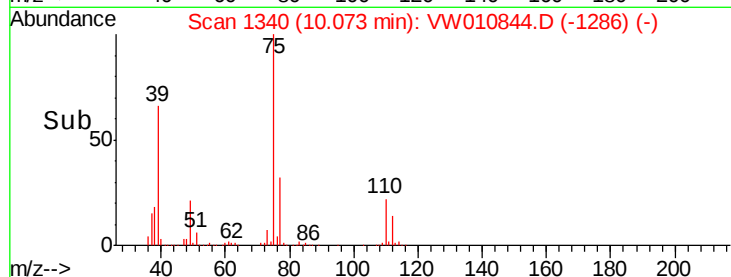
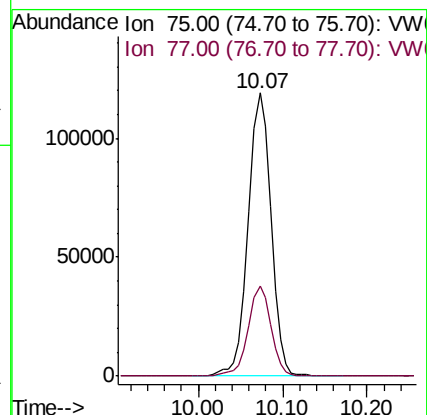
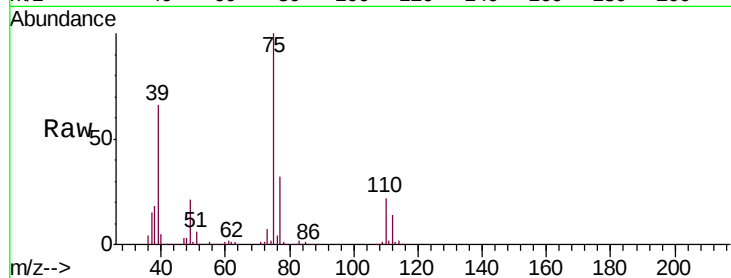
VSTD02524

Tgt Ion: 75 Resp: 217207

Ion Ratio Lower Upper

75 100

77 31.7 22.0 41.0



#43

4-Methyl-2-pentanone

Concen: 42.551 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

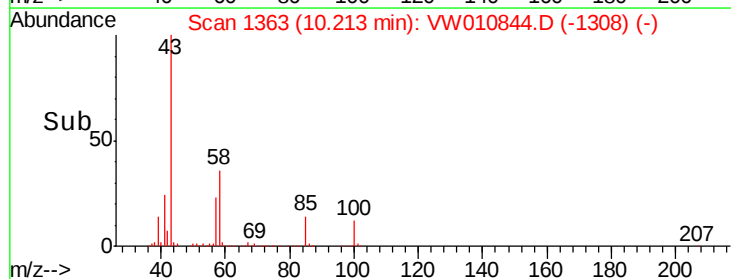
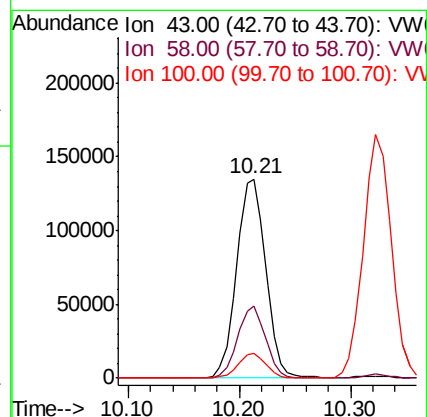
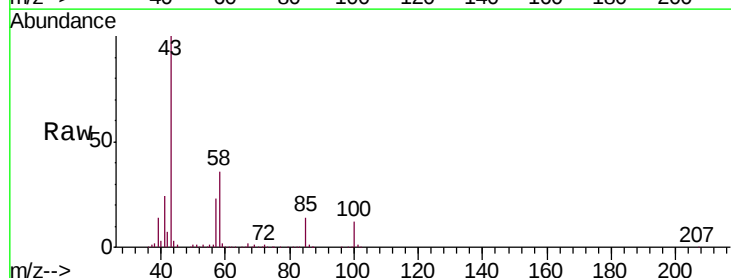
Tgt Ion: 43 Resp: 244343

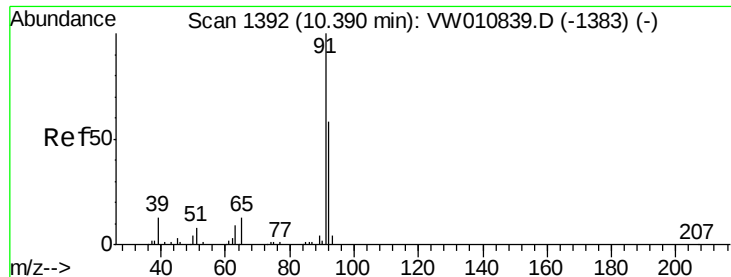
Ion Ratio Lower Upper

43 100

58 34.7 28.0 42.0

100 11.9 9.8 14.6





#44

Toluene

Concen: 23.736 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

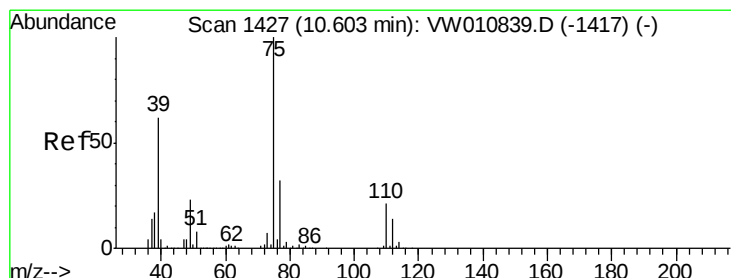
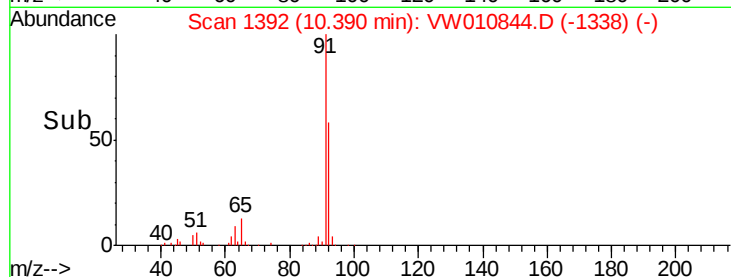
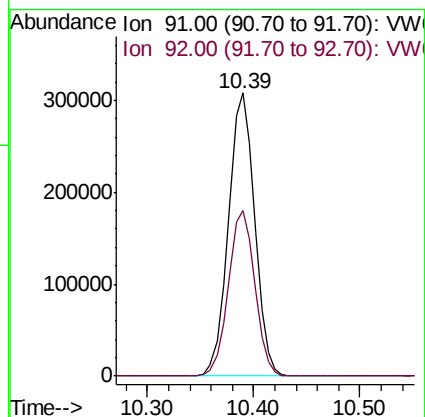
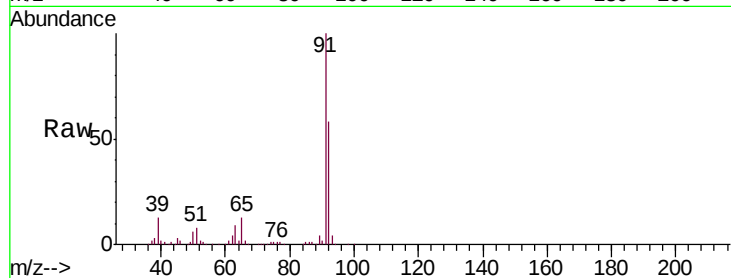
VSTD02524

Tgt Ion: 91 Resp: 533056

Ion Ratio Lower Upper

91 100

92 58.5 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 24.453 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010844.D

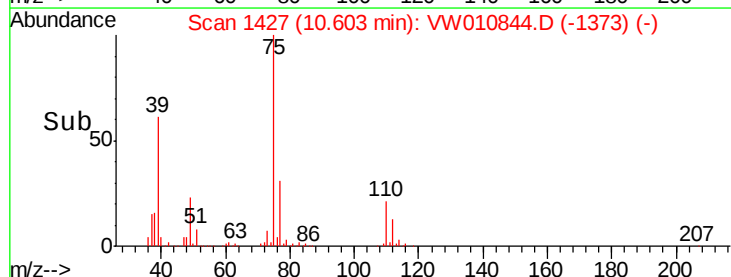
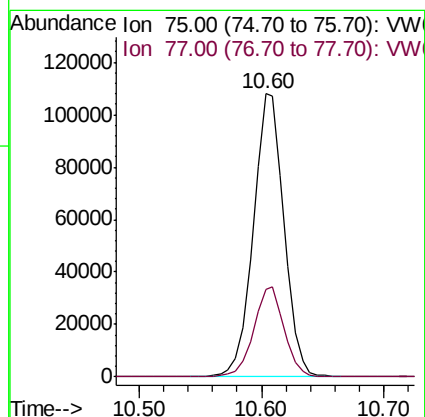
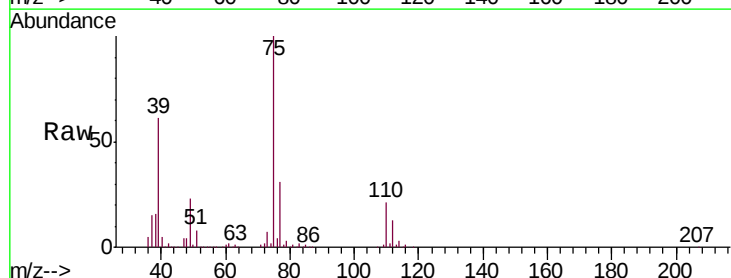
Acq: 18 Jun 2019 14:09

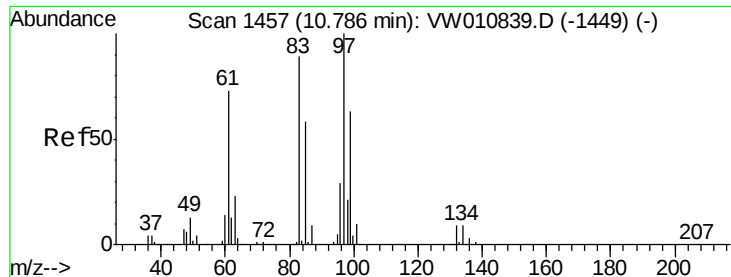
Tgt Ion: 75 Resp: 188378

Ion Ratio Lower Upper

75 100

77 30.8 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 22.630 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

Tgt Ion: 97 Resp: 96284

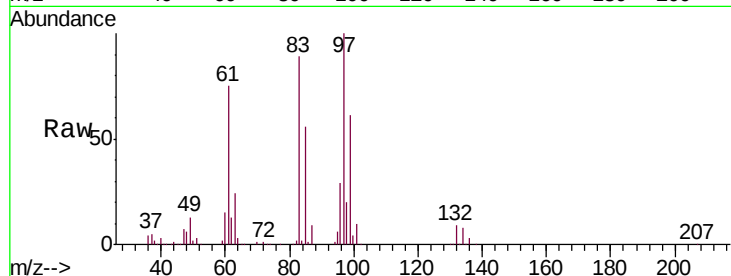
Ion Ratio Lower Upper

97 100

83 89.3 60.8 113.0

85 55.6 39.8 73.8

99 60.9 42.7 79.3



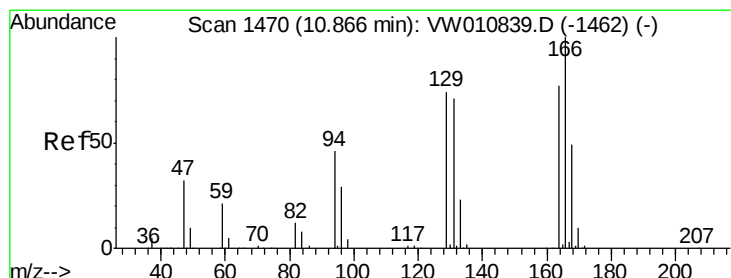
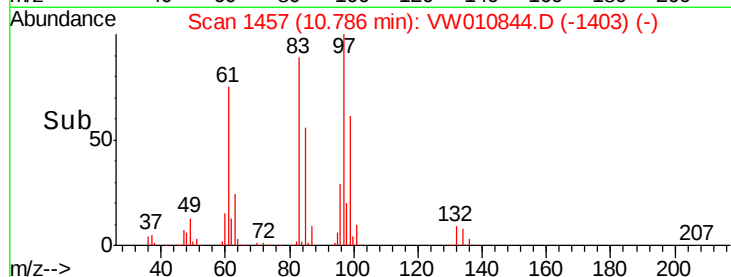
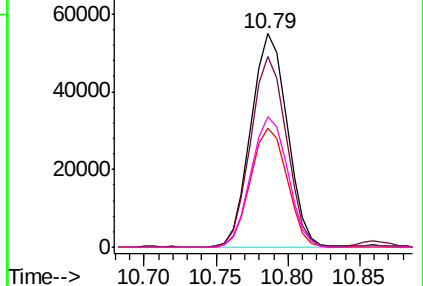
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 23.938 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Tgt Ion: 164 Resp: 98567

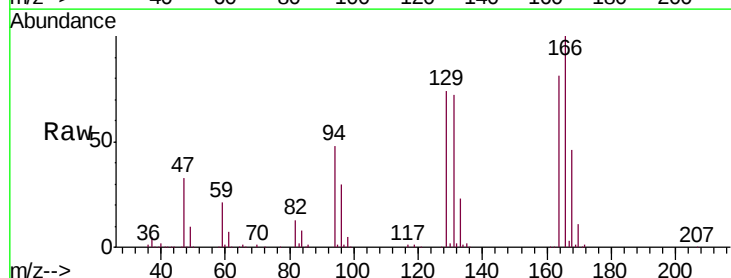
Ion Ratio Lower Upper

164 100

129 92.1 64.5 119.7

131 89.9 63.6 118.0

166 124.2 85.8 159.3



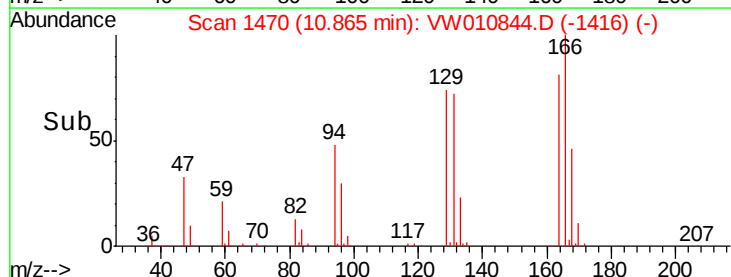
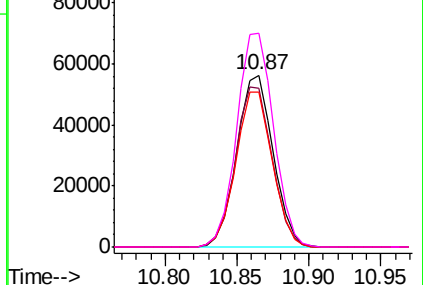
Abundance

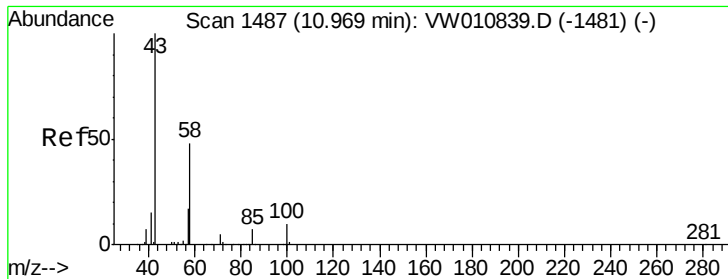
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

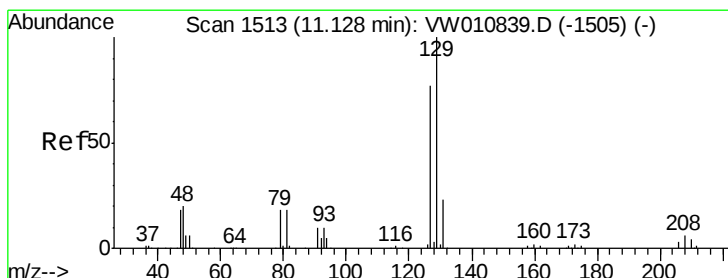
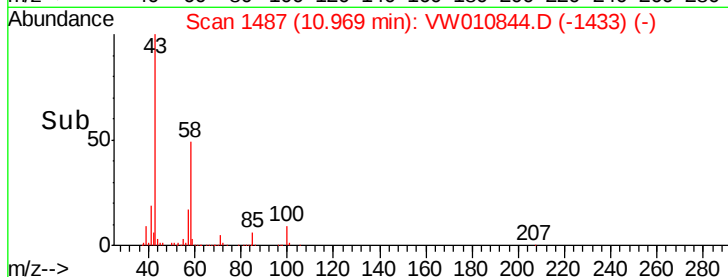
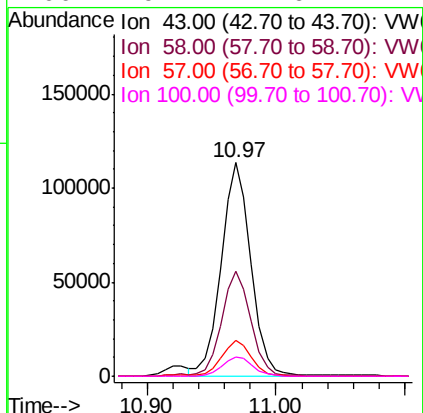
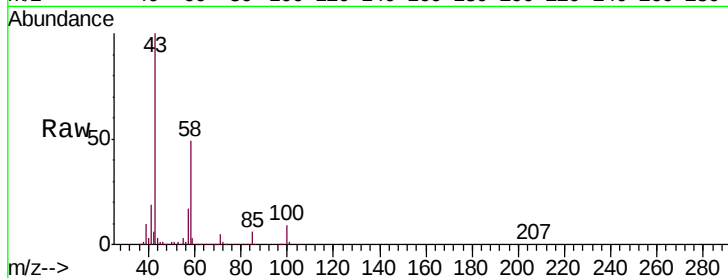




#49  
2-Hexanone  
Concen: 43.216 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

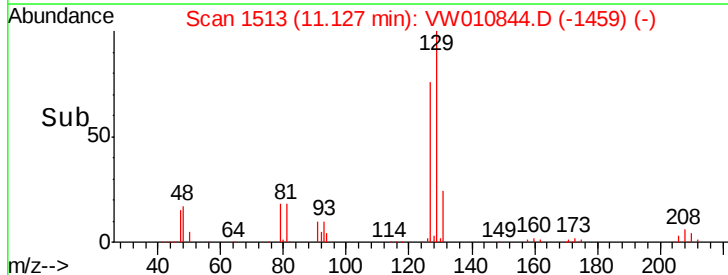
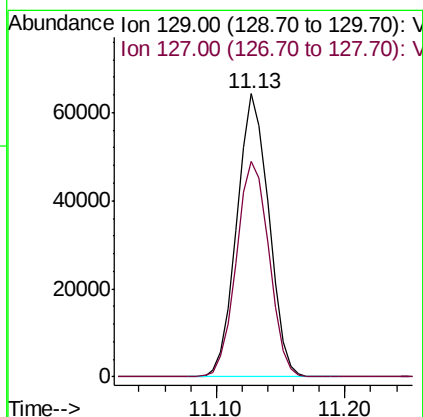
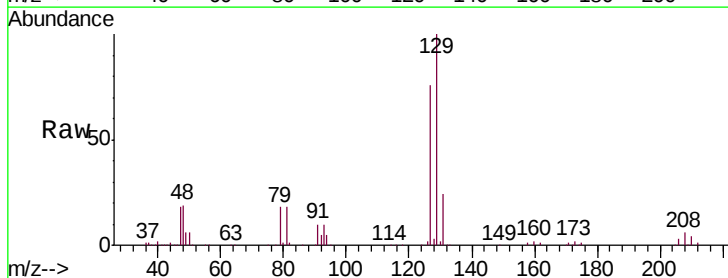
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02524

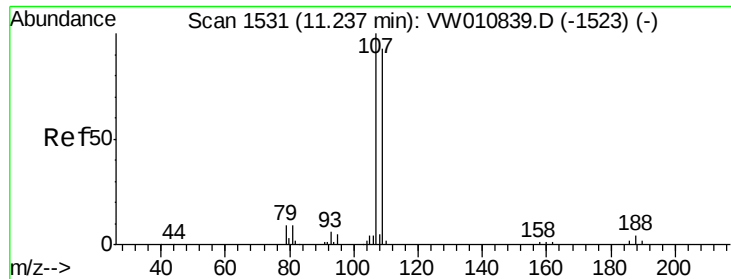
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 183959 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 48.1  | 39.5  | 59.3   |
| 57       | 16.8  | 13.8  | 20.8   |
| 100      | 9.4   | 7.6   | 11.4   |



#50  
Dibromochloromethane  
Concen: 23.490 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 110758 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 76.0  | 53.1  | 98.7   |





#51

1,2-Dibromoethane

Concen: 22.420 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

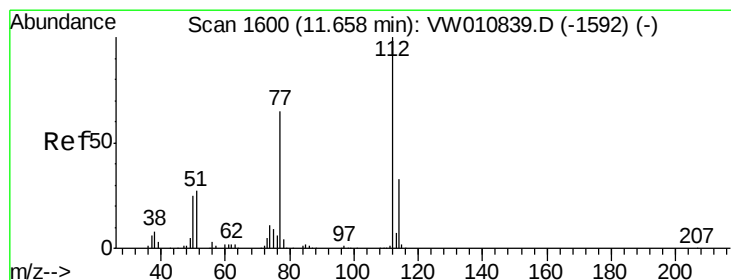
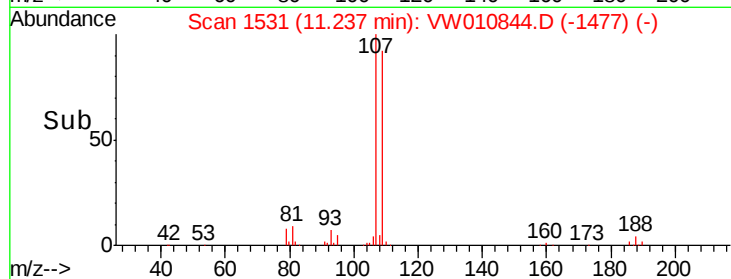
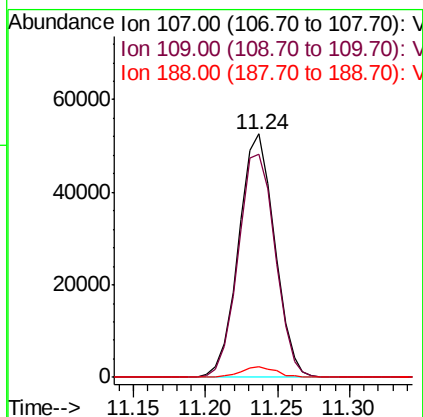
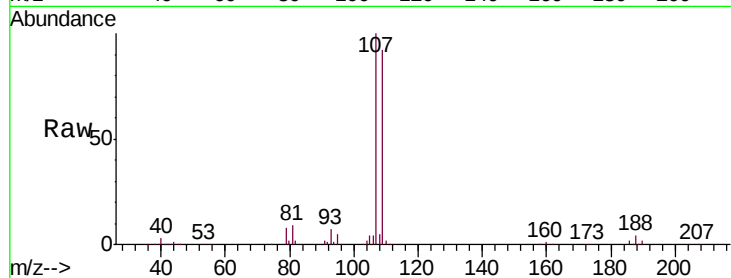
Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 91337 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 91.7  | 66.0  | 122.6 |
| 188      | 4.4   | 3.1   | 4.7   |



#52

Chlorobenzene

Concen: 23.708 ug/L

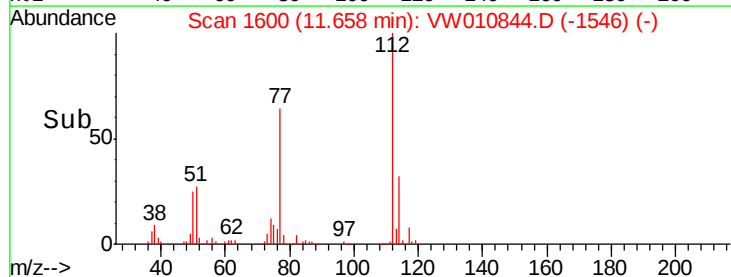
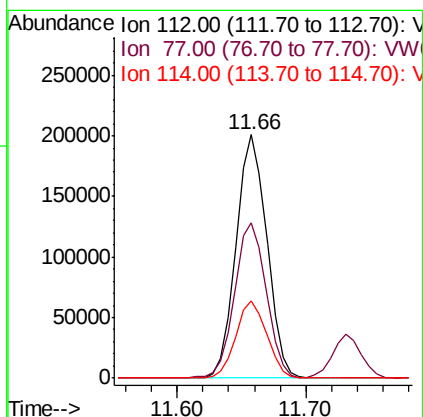
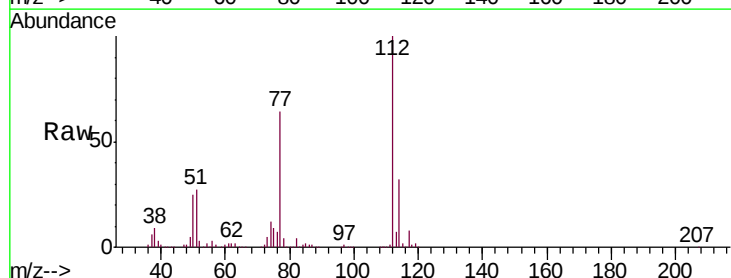
RT: 11.66 min Scan# 1600

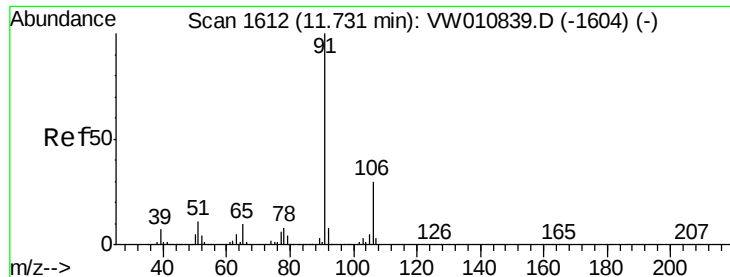
Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 331947 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 77       | 63.9  | 51.8  | 77.8   |
| 114      | 31.5  | 22.1  | 41.1   |





#53

Ethylbenzene

Concen: 24.109 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

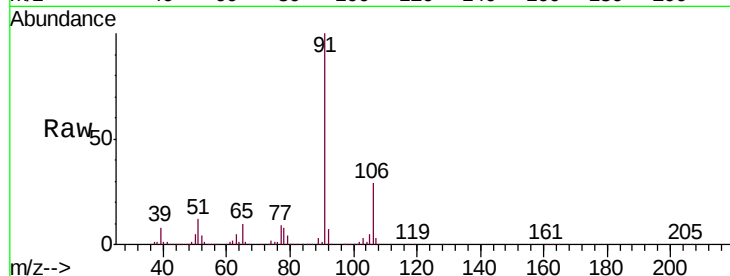
VSTD02524

Tgt Ion: 91 Resp: 619646

Ion Ratio Lower Upper

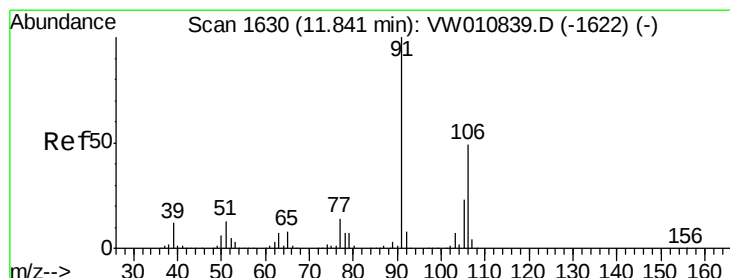
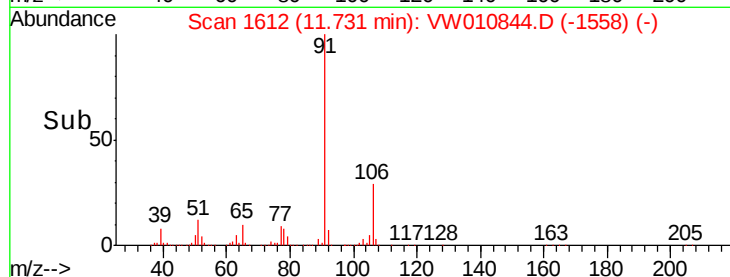
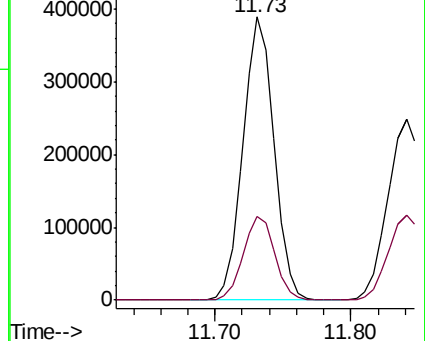
91 100

106 29.4 21.1 39.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 23.664 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW010844.D

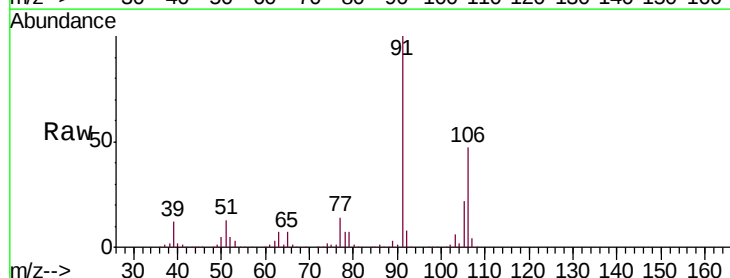
Acq: 18 Jun 2019 14:09

Tgt Ion: 106 Resp: 219176

Ion Ratio Lower Upper

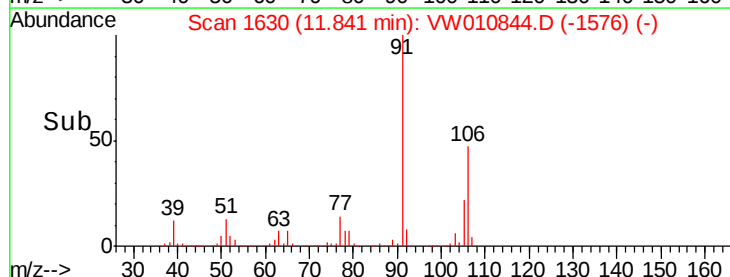
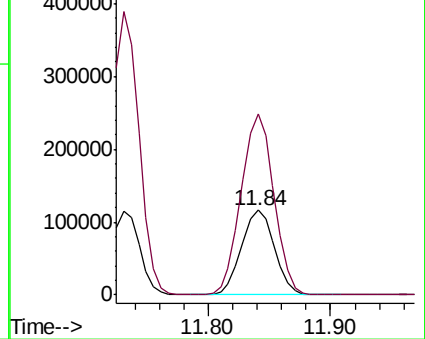
106 100

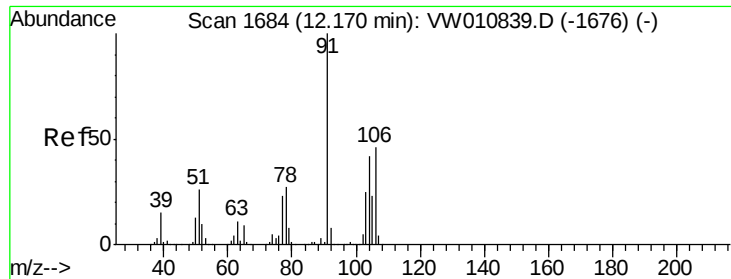
91 212.5 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

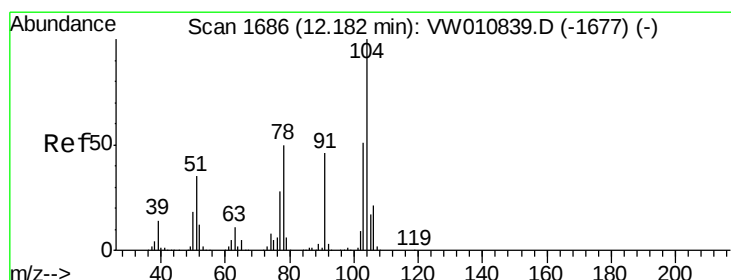
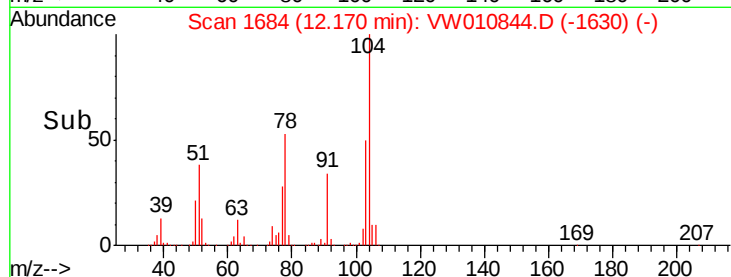
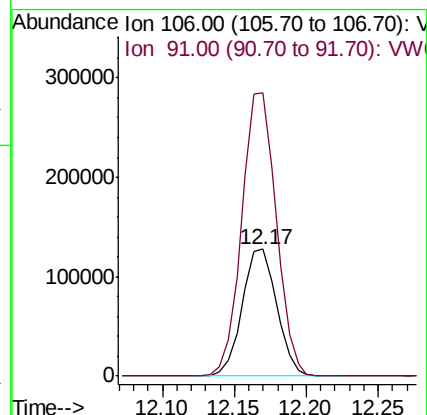
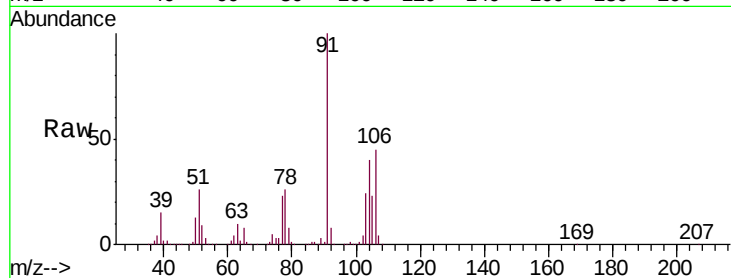




#55  
o-xylene  
Concen: 23.722 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

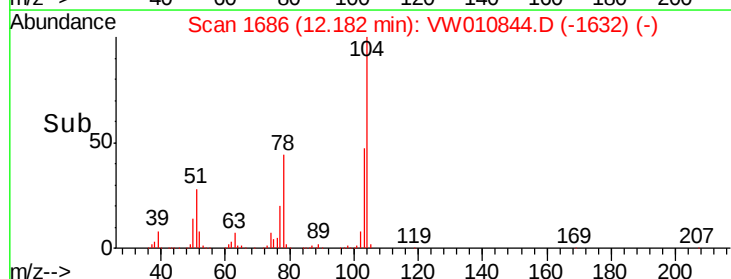
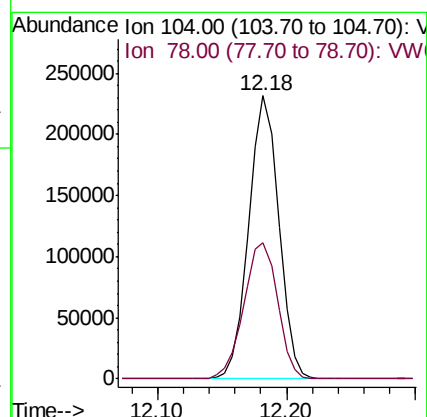
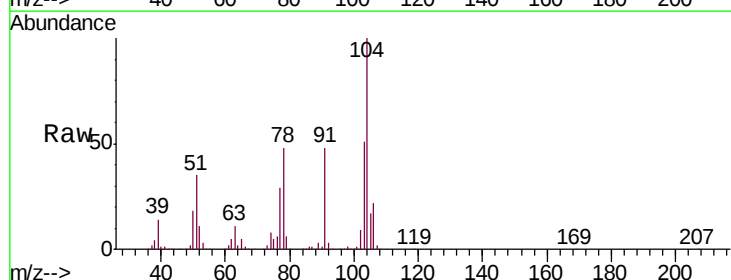
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02524

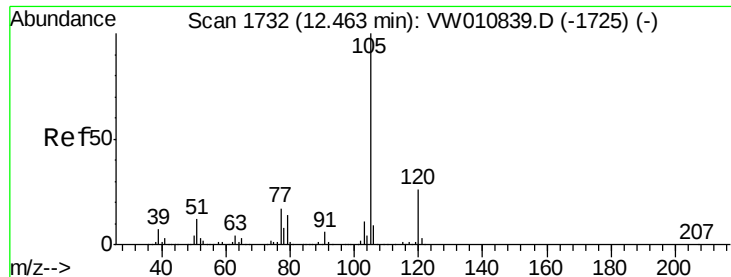
Tgt Ion:106 Resp: 213051  
Ion Ratio Lower Upper  
106 100  
91 223.1 157.8 293.1



#56  
Styrene  
Concen: 23.795 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW010844.D  
Acq: 18 Jun 2019 14:09

Tgt Ion:104 Resp: 371869  
Ion Ratio Lower Upper  
104 100  
78 48.3 34.2 63.4





#57

Isopropylbenzene

Concen: 24.358 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

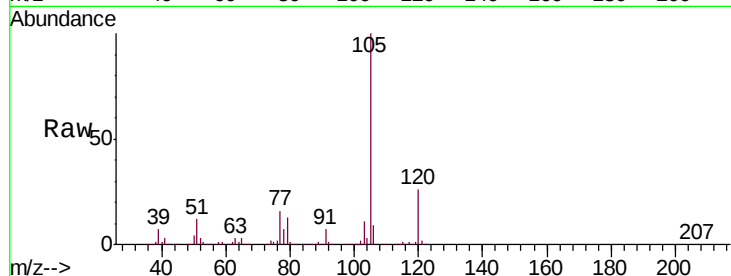
Tgt Ion: 105 Resp: 598987

Ion Ratio Lower Upper

105 100

120 26.0 20.5 30.7

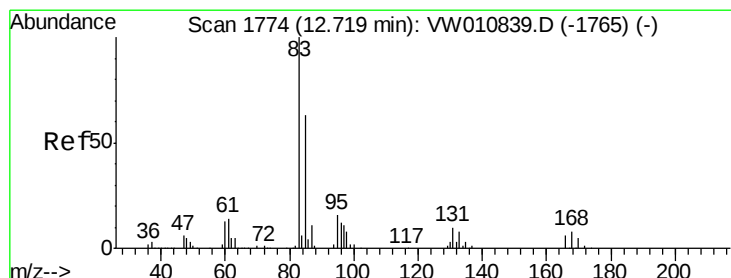
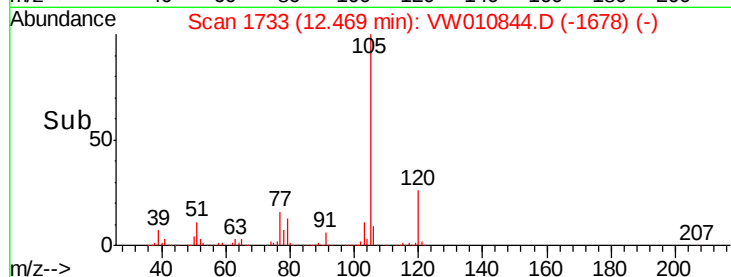
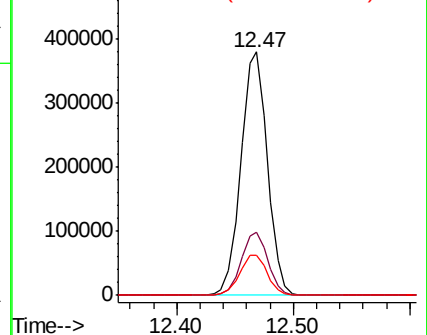
77 17.0 13.6 20.4



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: 22.504 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

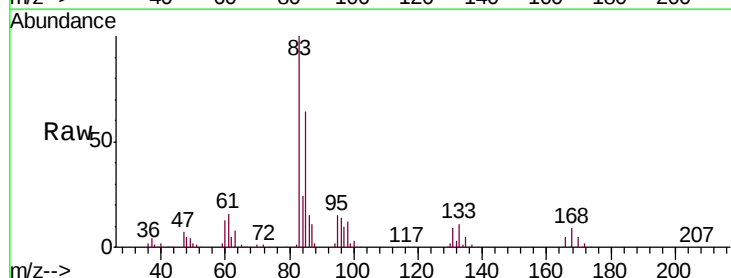
Tgt Ion: 83 Resp: 128287

Ion Ratio Lower Upper

83 100

85 63.7 44.0 81.6

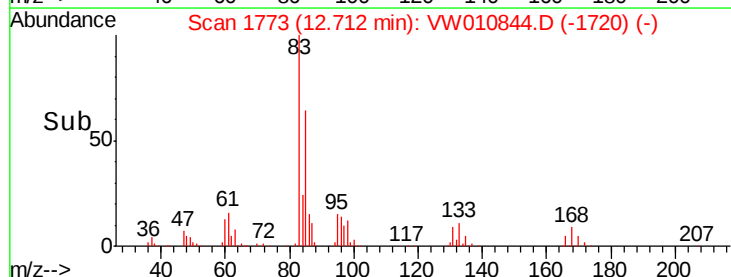
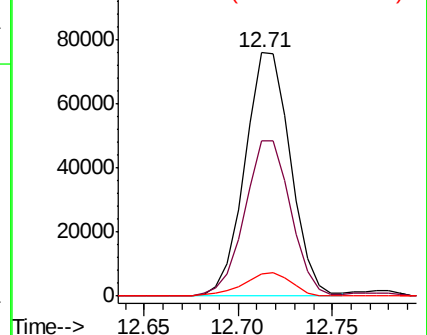
131 9.0 7.0 10.6

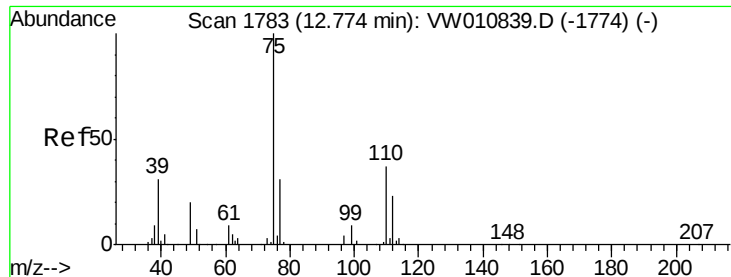


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.069 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

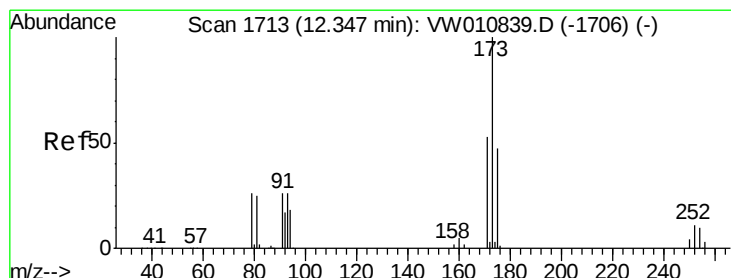
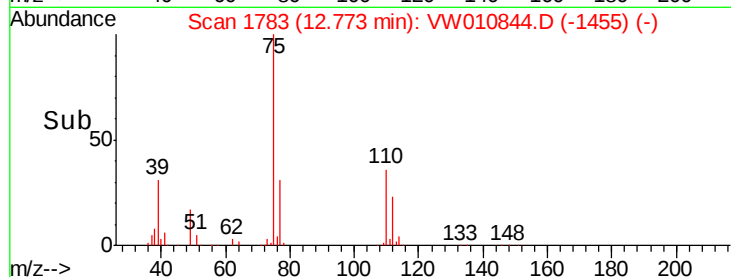
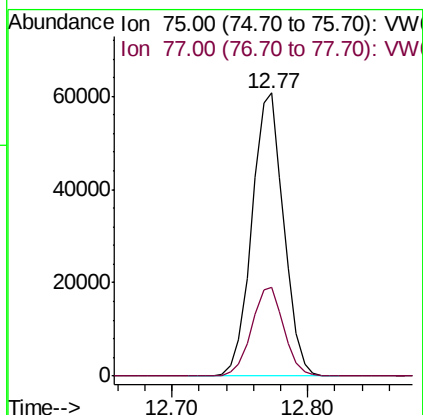
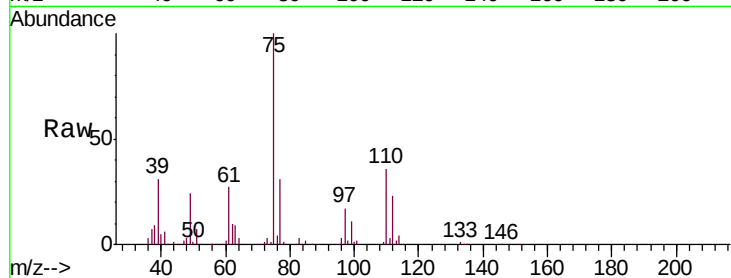
VSTD02524

Tgt Ion: 75 Resp: 99454

Ion Ratio Lower Upper

75 100

77 31.9 25.6 38.4



#62

Bromoform

Concen: 22.736 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

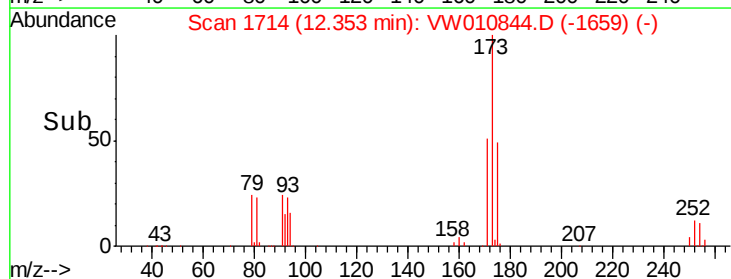
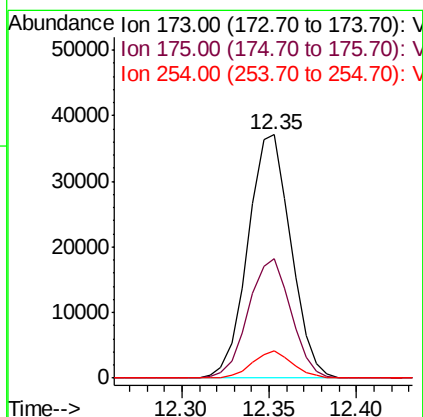
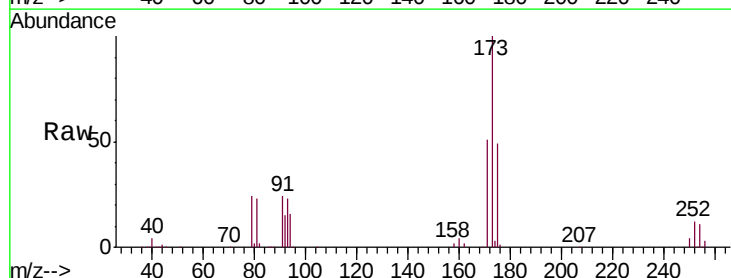
Tgt Ion: 173 Resp: 63438

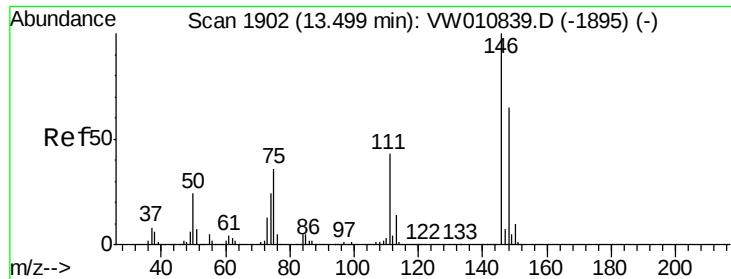
Ion Ratio Lower Upper

173 100

175 48.8 38.7 58.1

254 10.4 8.6 13.0

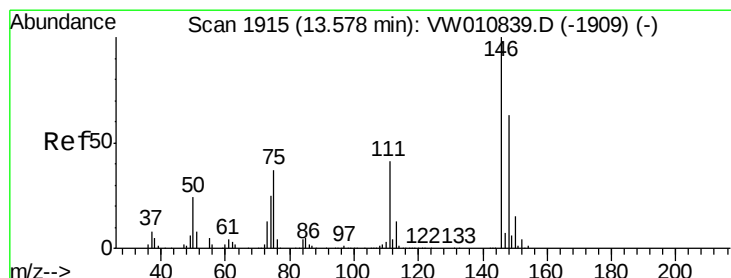
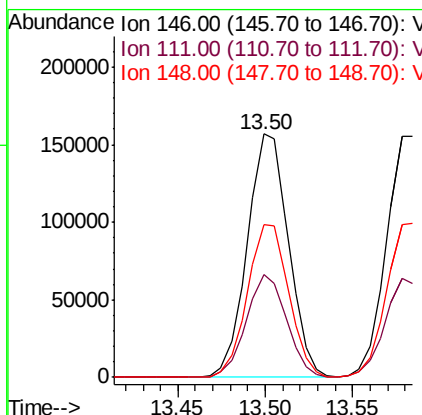
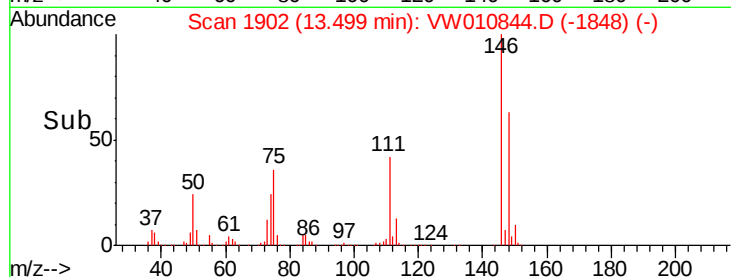
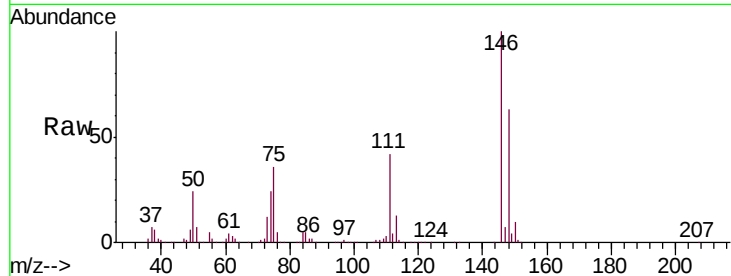




#63  
 1,3-Dichlorobenzene  
 Concen: 24.158 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

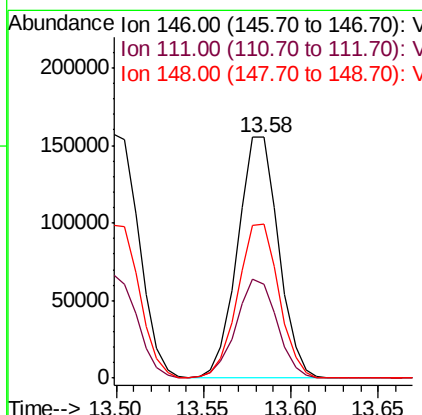
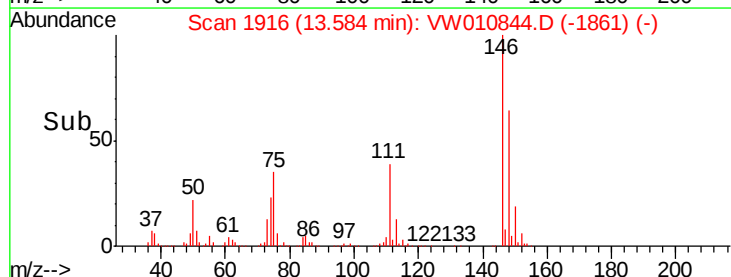
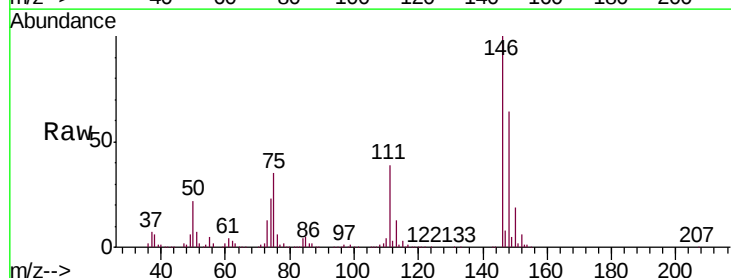
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD02524

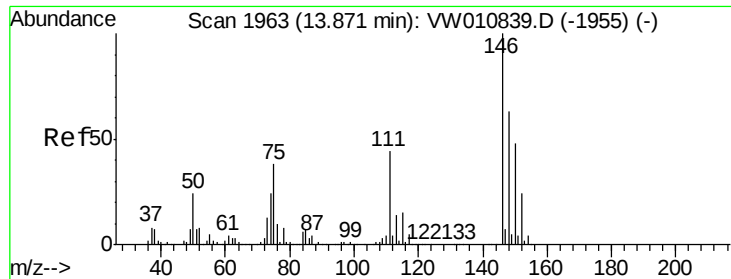
Tgt Ion:146 Resp: 256441  
 Ion Ratio Lower Upper  
 146 100  
 111 42.0 28.6 53.2  
 148 62.7 44.4 82.5



#64  
 1,4-Dichlorobenzene  
 Concen: 23.596 ug/L  
 RT: 13.58 min Scan# 1916  
 Delta R.T. 0.01 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Tgt Ion:146 Resp: 253494  
 Ion Ratio Lower Upper  
 146 100  
 111 38.9 29.0 53.9  
 148 64.1 44.4 82.4

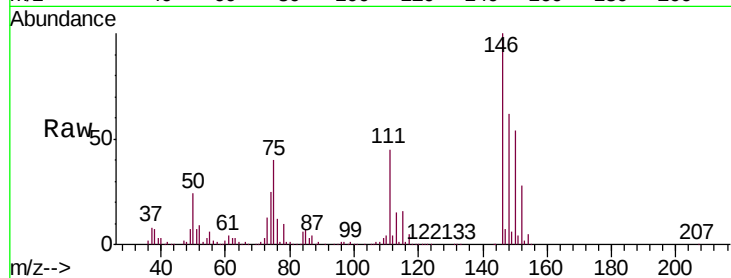




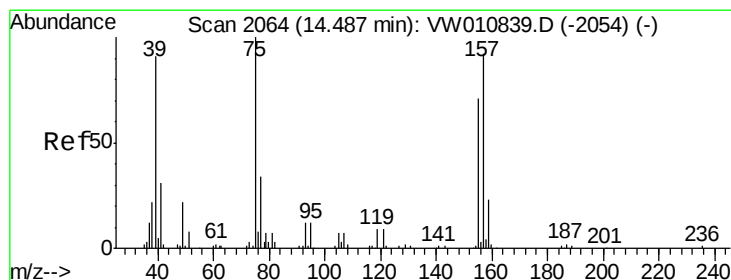
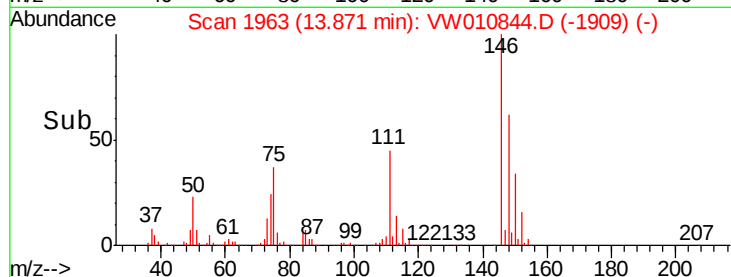
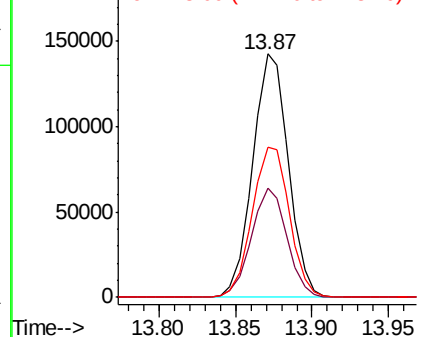
#65  
 1,2-Dichlorobenzene  
 Concen: 23.333 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02524

Tgt Ion: 146 Resp: 231724  
 Ion Ratio Lower Upper  
 146 100  
 111 44.7 35.3 52.9  
 148 61.8 51.9 77.9

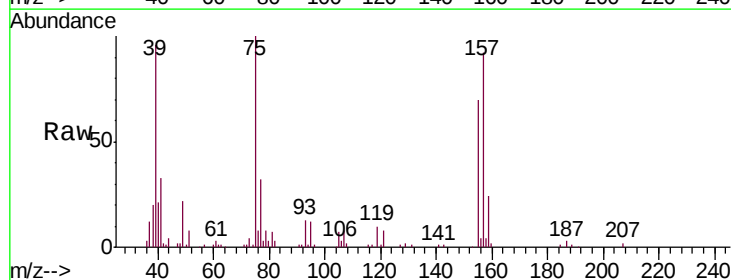


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

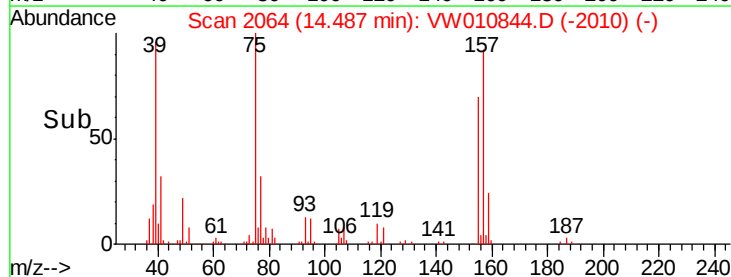
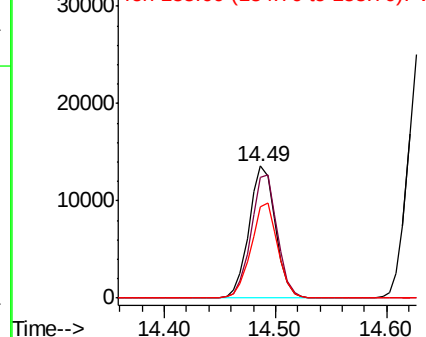


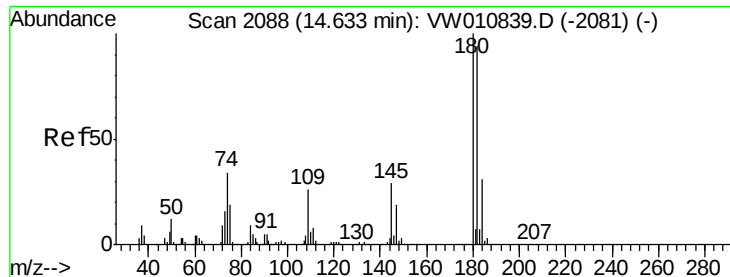
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 21.406 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Tgt Ion: 75 Resp: 22410  
 Ion Ratio Lower Upper  
 75 100  
 157 91.9 79.1 118.7  
 155 69.8 62.0 93.0



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

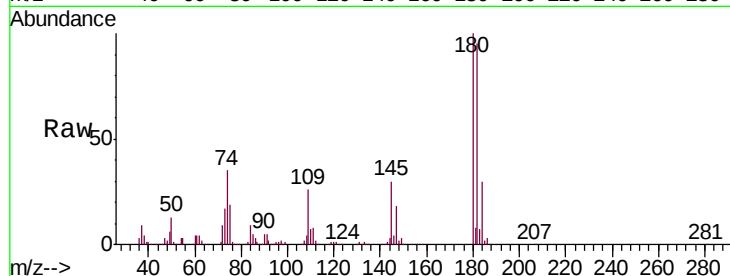




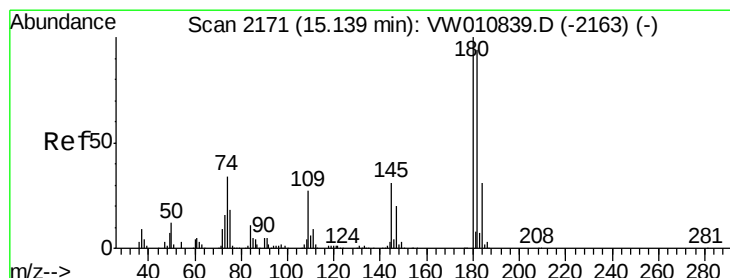
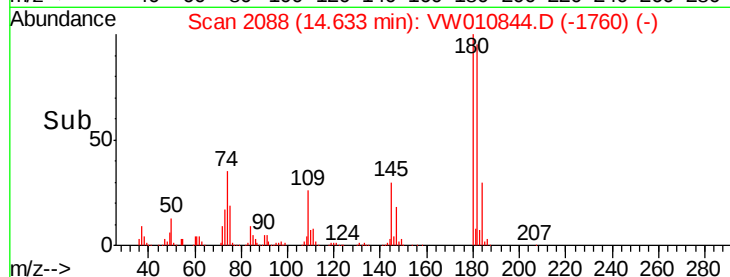
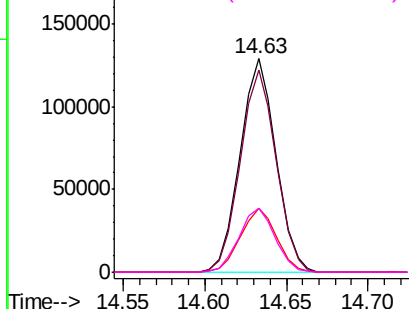
#67  
 1,3,5-Trichlorobenzene  
 Concen: 24.551 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02524

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 197791 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.8  | 76.5  | 114.7  |
| 184      | 30.0  | 24.6  | 37.0   |
| 145      | 30.1  | 24.1  | 36.1   |

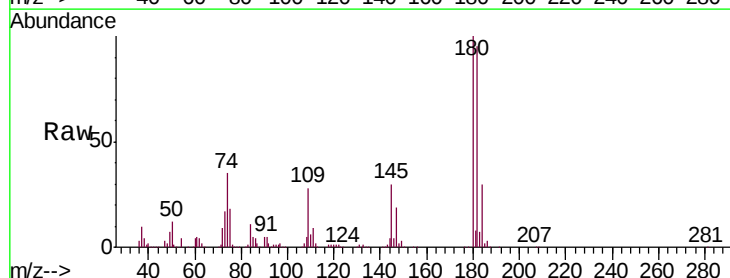


Abundance Ion 180.00 (179.70 to 180.70): V  
 200000  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

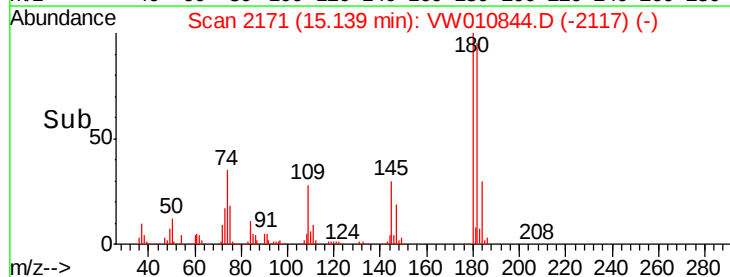
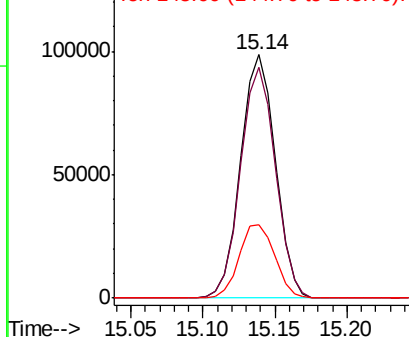


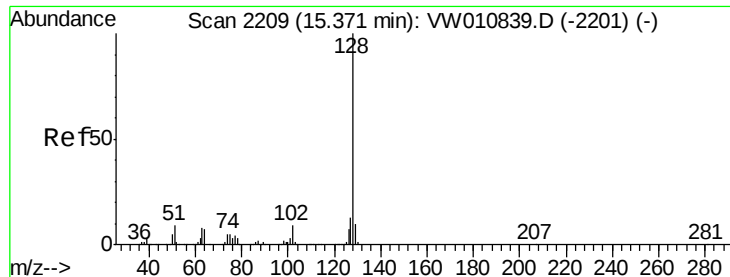
#68  
 1,2,4-trichlorobenzene  
 Concen: 24.566 ug/L  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW010844.D  
 Acq: 18 Jun 2019 14:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 165168 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.0  | 76.4  | 114.6  |
| 145      | 31.0  | 24.8  | 37.2   |



Abundance Ion 180.00 (179.70 to 180.70): V  
 100000  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 23.310 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02524

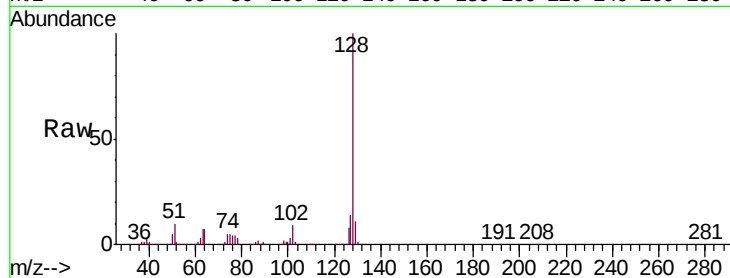
Tgt Ion:128 Resp: 331349

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

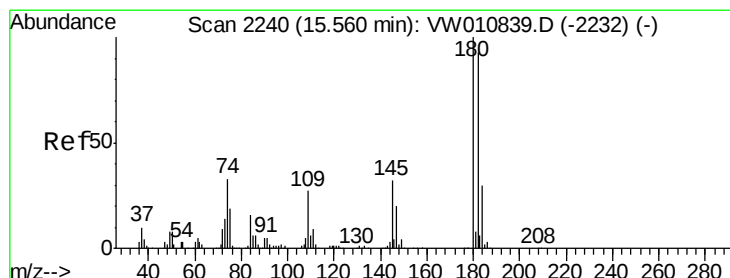
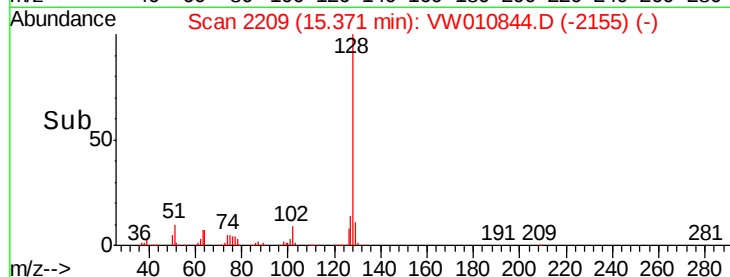
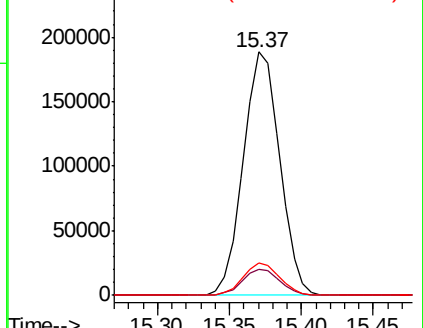
127 13.4 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.469 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010844.D

Acq: 18 Jun 2019 14:09

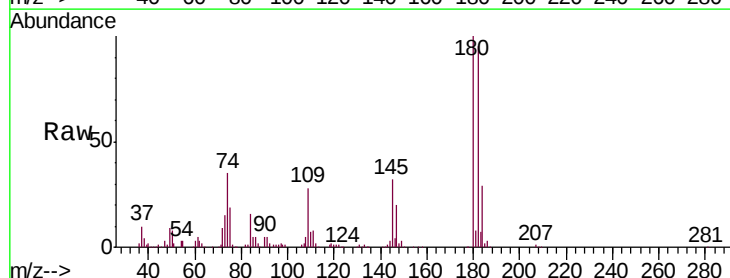
Tgt Ion:180 Resp: 147398

Ion Ratio Lower Upper

180 100

182 94.6 76.6 115.0

145 32.5 25.8 38.8



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

