

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV072318\  
 Data File : VV006699.D  
 Acq On : 23 Jul 2018 14:39  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01078

Quant Time: Jul 24 02:06:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072318WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 24 02:05:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 271064   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 254964   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 124090   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 145130 | 10.29  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 112320 | 10.14  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 278468 | 10.06  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.95  | 46  | 468639 | 106.32 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 273571 | 10.33  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 131723 | 10.21  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 539132 | 10.29  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 180312 | 10.18  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.37  | 98  | 480787 | 10.49  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 62360  | 10.79  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 415272 | 113.53 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 149207 | 10.33  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 187319 | 10.13  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 191522  | 8.891 ug/L   | # 86   |
| 3) Chloromethane               | 1.26 | 50  | 213552  | 10.312 ug/L  | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 259449  | 10.002 ug/L  | 95     |
| 6) Bromomethane                | 1.52 | 94  | 60550   | 9.538 ug/L   | 97     |
| 8) Chloroethane                | 1.59 | 64  | 133788  | 9.424 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 294468  | 9.896 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 181050  | 9.984 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 175153  | 9.864 ug/L   | 96     |
| 13) Acetone                    | 2.19 | 43  | 273626  | 97.565 ug/L  | 99     |
| 14) Carbon disulfide           | 2.31 | 76  | 589151  | 9.866 ug/L   | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 81444   | 9.796 ug/L   | 97     |
| 16) Methylene chloride         | 2.54 | 84  | 187305  | 9.201 ug/L   | 100    |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 434653  | 9.978 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 189961  | 9.849 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 349114  | 9.840 ug/L   | 100    |
| 21) 2-Butanone                 | 4.04 | 43  | 478532  | 101.869 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 201445  | 10.016 ug/L  | 99     |
| 23) Bromochloromethane         | 4.30 | 128 | 83215   | 10.055 ug/L  | 99     |
| 25) Chloroform                 | 4.43 | 83  | 325793  | 9.786 ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 191852  | 9.822 ug/L   | 99     |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 273428  | 9.968 ug/L   | 100    |
| 30) Cyclohexane                | 4.72 | 56  | 319639  | 10.408 ug/L  | 99     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 237948  | 10.149 ug/L  | 100    |
| 33) Benzene                    | 5.15 | 78  | 770241  | 10.049 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 189638  | 9.801 ug/L   | 99     |
| 35) Methylcyclohexane          | 6.18 | 83  | 338478  | 10.472 ug/L  | 99     |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 191853  | 9.750 ug/L   | 100    |
| 38) Bromodichloromethane       | 6.56 | 83  | 221795  | 10.092 ug/L  | 99     |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 268412  | 10.472 ug/L  | 98     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 1113956 | 102.987 ug/L | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV072318\  
 Data File : VV006699.D  
 Acq On : 23 Jul 2018 14:39  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

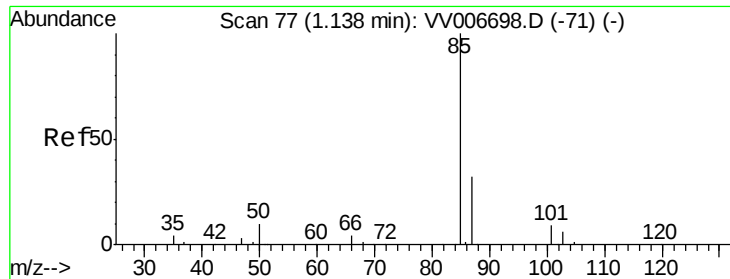
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01078

Quant Time: Jul 24 02:06:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072318WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 24 02:05:01 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.44  | 91   | 805774   | 10.209  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 214708   | 10.653  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 131867   | 9.951   | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 154284   | 10.039  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.19  | 43   | 796500   | 105.533 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.30  | 129  | 145545   | 10.378  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 119616   | 10.100  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.93  | 112  | 510741   | 9.949   | ug/L  | 100      |
| 52) Ethylbenzene               | 9.06  | 91   | 876278   | 10.415  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.19  | 106  | 337369   | 10.622  | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 329692   | 10.655  | ug/L  | 99       |
| 55) Styrene                    | 9.61  | 104  | 567679   | 10.878  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 867089   | 10.791  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 162989   | 10.054  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 115320   | 9.958   | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 75894    | 10.063  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 385267   | 10.044  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 389873   | 9.973   | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 372784   | 9.977   | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 22505    | 10.064  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 301772   | 10.304  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 245674   | 10.560  | ug/L  | 99       |
| 69) Naphthalene                | 13.56 | 128  | 447044   | 11.229  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 232691   | 10.569  | ug/L  | 99       |

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





#2

Dichlorodifluoromethane

Concen: 8.891 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

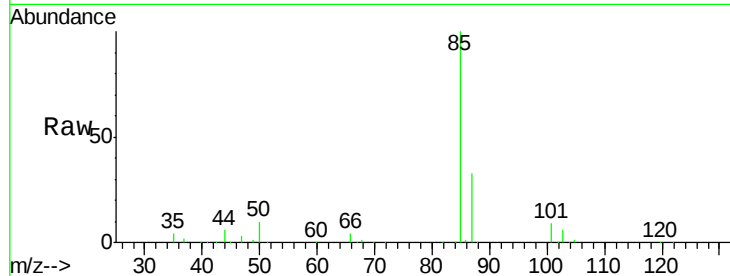
VSTD01078

Tgt Ion: 85 Resp: 191522

Ion Ratio Lower Upper

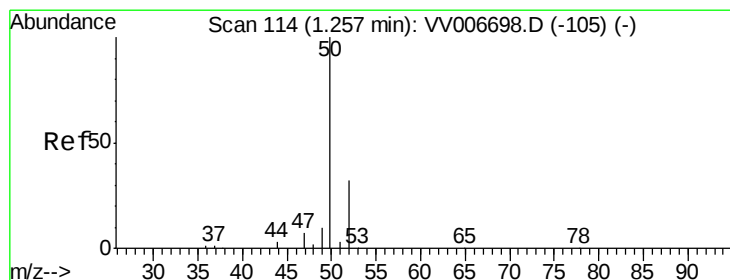
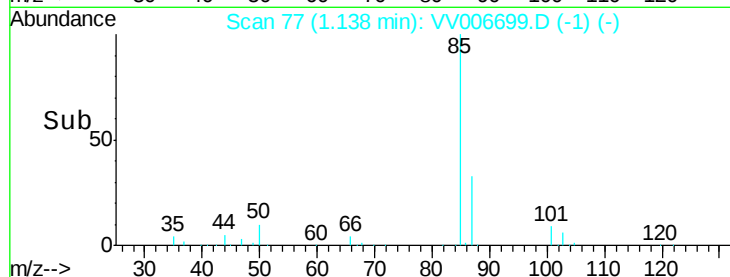
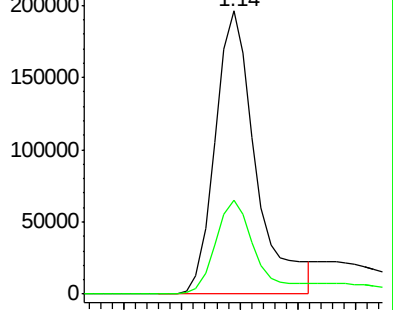
85 100

87 32.1 19.9 29.9#



Abundance Ion 85.00 (84.70 to 85.70): VV006699.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV006699.D (-1) (-)



#3

Chloromethane

Concen: 10.312 ug/L

RT: 1.26 min Scan# 116

Delta R.T. 0.01 min

Lab File: VV006699.D

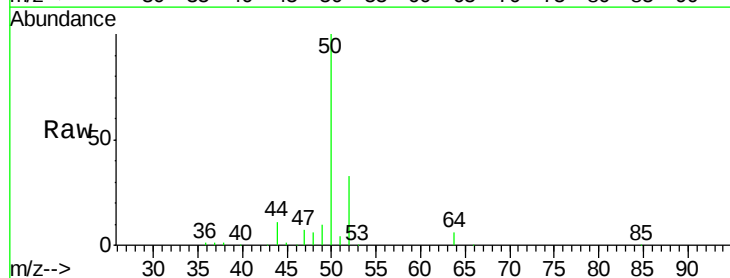
Acq: 23 Jul 2018 14:39

Tgt Ion: 50 Resp: 213552

Ion Ratio Lower Upper

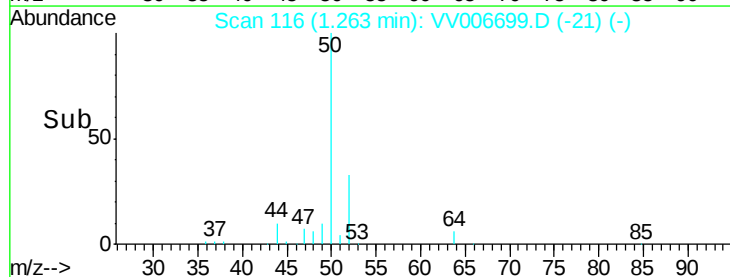
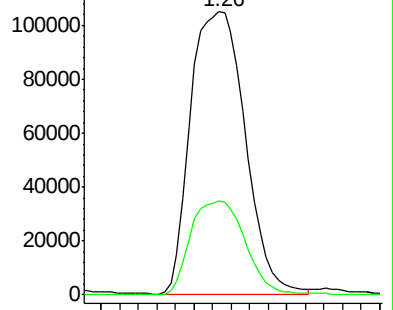
50 100

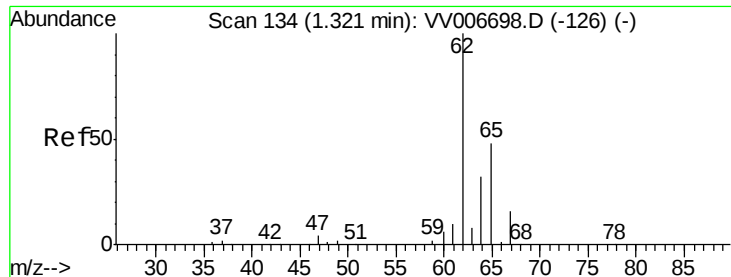
52 33.2 22.1 41.1



Abundance Ion 50.05 (49.75 to 50.75): VV006699.D (-21) (-)

Ion 52.05 (51.75 to 52.75): VV006699.D (-21) (-)





#5

Vinyl chloride

Concen: 10.002 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

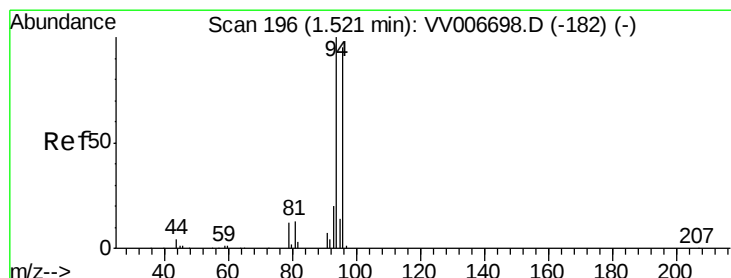
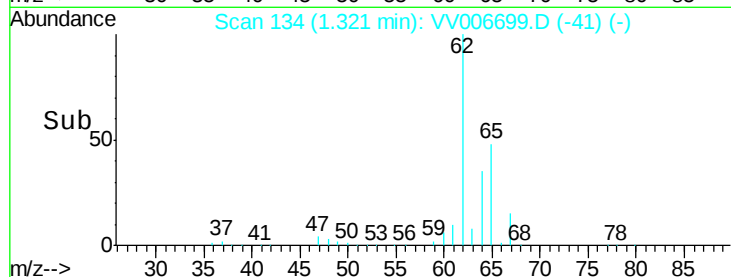
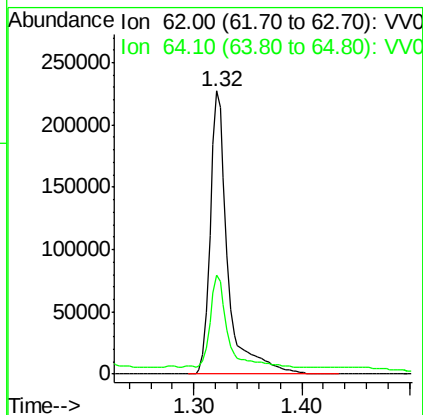
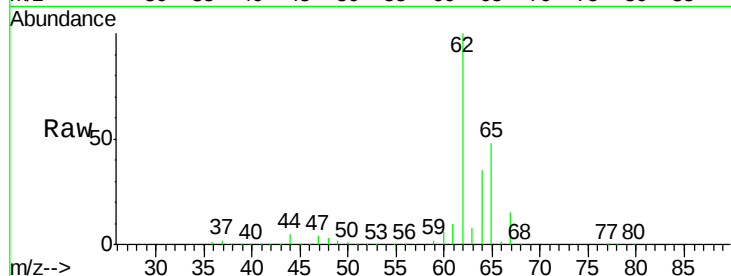
VSTD01078

Tgt Ion: 62 Resp: 259449

Ion Ratio Lower Upper

62 100

64 35.0 26.5 49.3



#6

Bromomethane

Concen: 9.538 ug/L

RT: 1.52 min Scan# 195

Delta R.T. -0.00 min

Lab File: VV006699.D

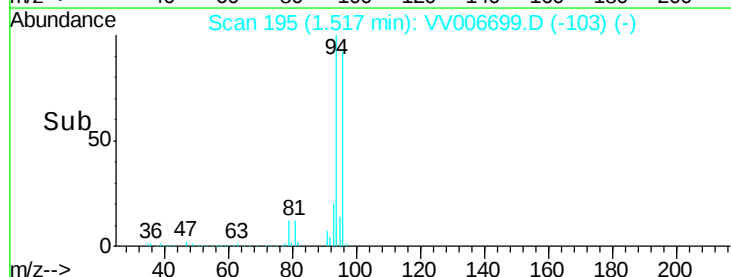
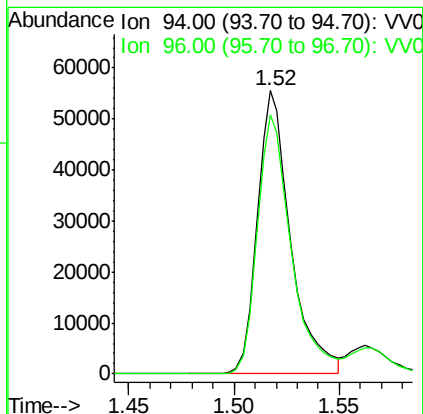
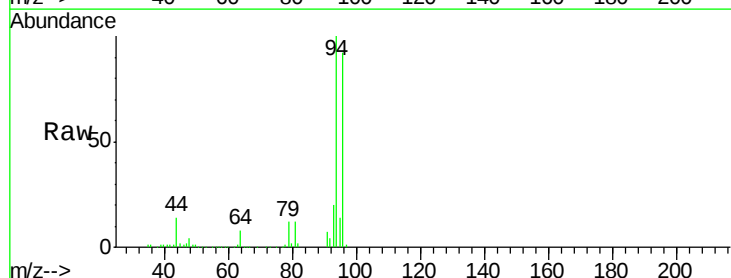
Acq: 23 Jul 2018 14:39

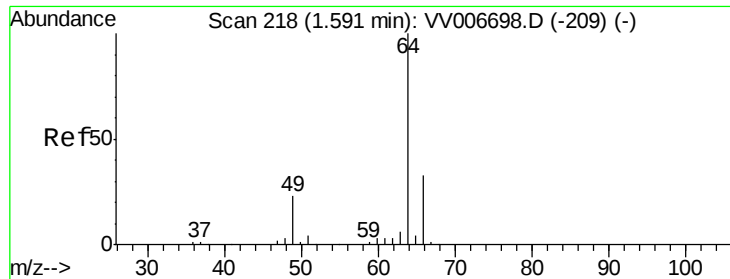
Tgt Ion: 94 Resp: 60550

Ion Ratio Lower Upper

94 100

96 91.6 66.4 123.4

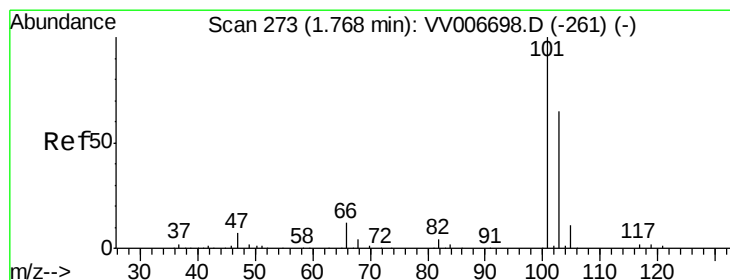
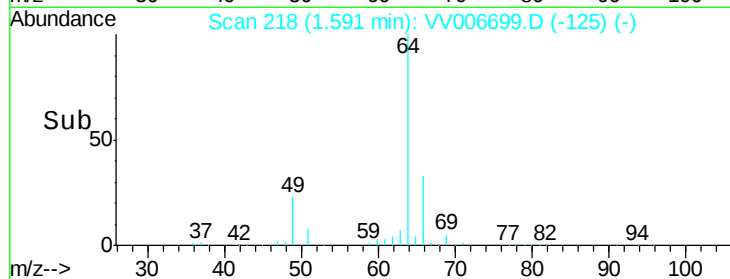
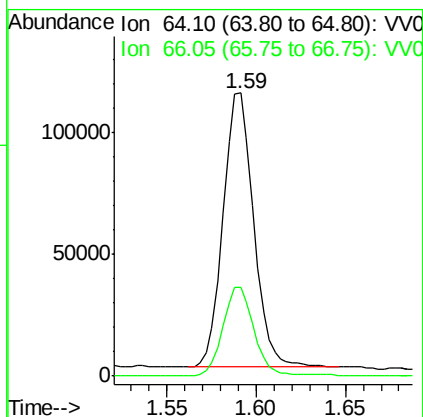
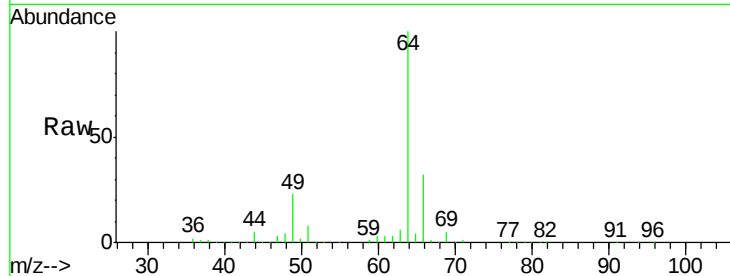




#8  
Chloroethane  
Concen: 9.424 ug/L  
RT: 1.59 min Scan# 218  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

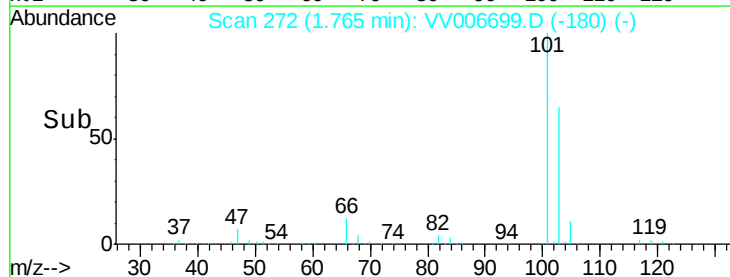
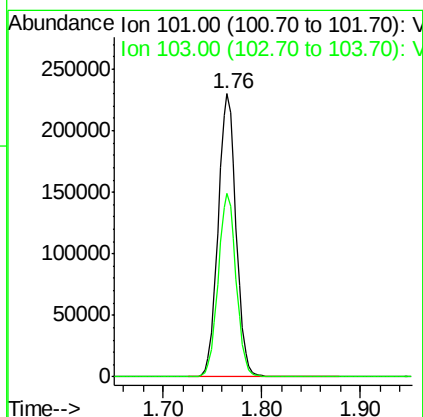
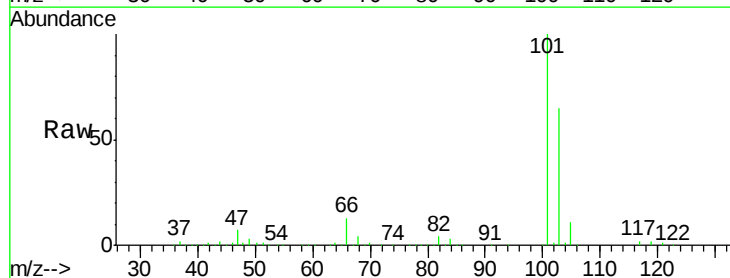
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01078

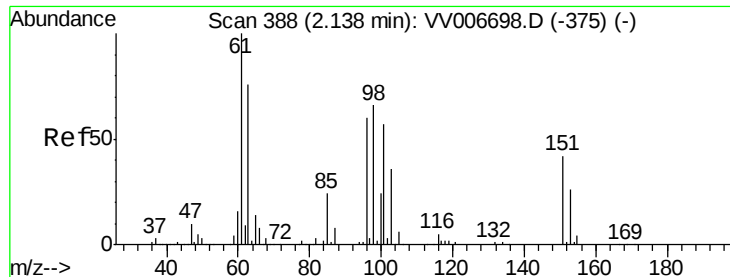
Tgt Ion: 64 Resp: 133788  
Ion Ratio Lower Upper  
64 100  
66 31.5 21.8 40.4



#9  
Trichlorofluoromethane  
Concen: 9.896 ug/L  
RT: 1.76 min Scan# 272  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Tgt Ion: 101 Resp: 294468  
Ion Ratio Lower Upper  
101 100  
103 64.9 51.8 77.6





#10

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

Concen: 9.984 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

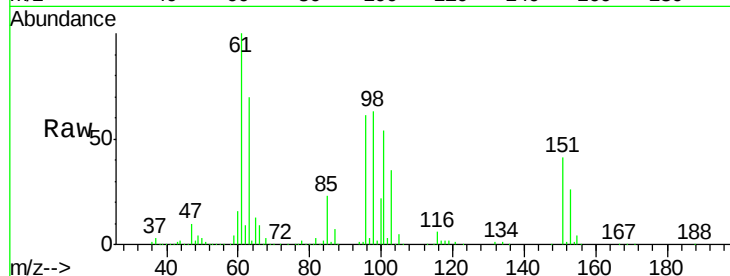
Tgt Ion: 101 Resp: 181050

Ion Ratio Lower Upper

101 100

85 42.2 33.1 49.7

151 75.4 59.7 89.5

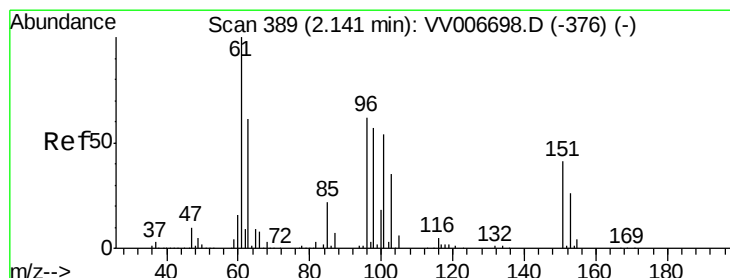
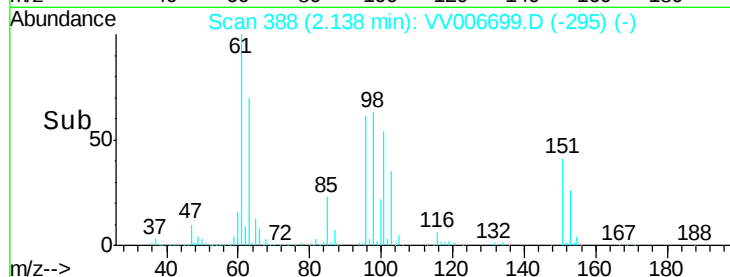


Abundance Ion 101.00 (100.70 to 101.70): VV006699.D (-295) (-)

Ion 85.00 (84.70 to 85.70): VV006699.D (-295) (-)

Ion 151.00 (150.70 to 151.70): VV006699.D (-295) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 9.864 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

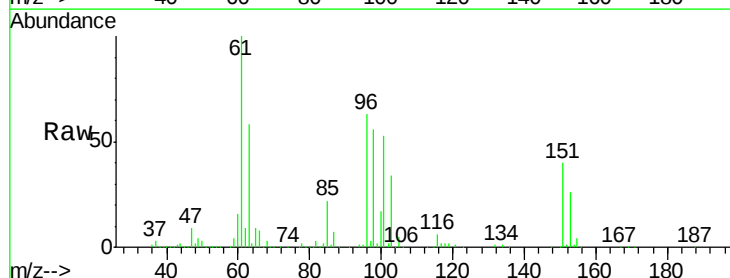
Tgt Ion: 96 Resp: 175153

Ion Ratio Lower Upper

96 100

61 159.4 113.5 210.9

63 92.4 69.5 129.1

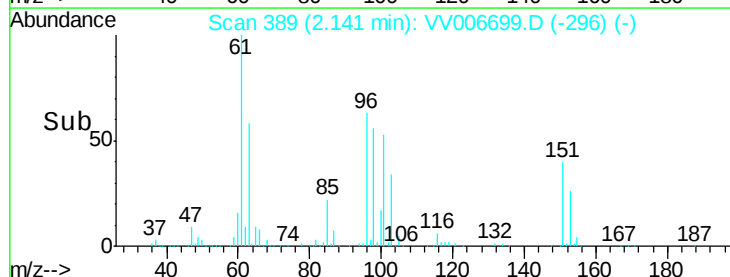


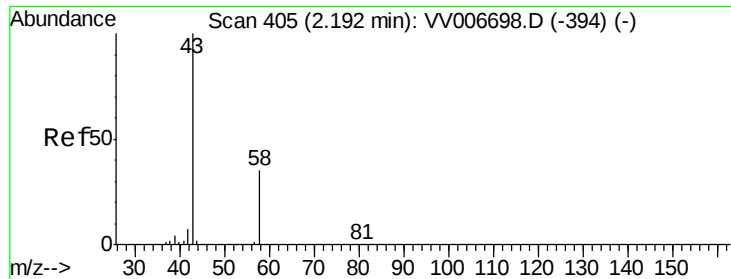
Abundance Ion 96.00 (95.70 to 96.70): VV006699.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VV006699.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VV006699.D (-296) (-)

Time-->





#13

Acetone

Concen: 97.565 ug/L

RT: 2.19 min Scan# 405

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

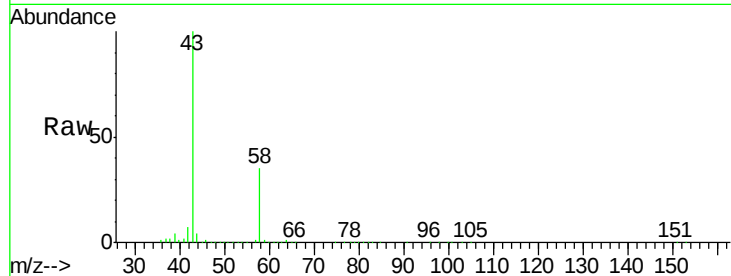
VSTD01078

Tgt Ion: 43 Resp: 273626

Ion Ratio Lower Upper

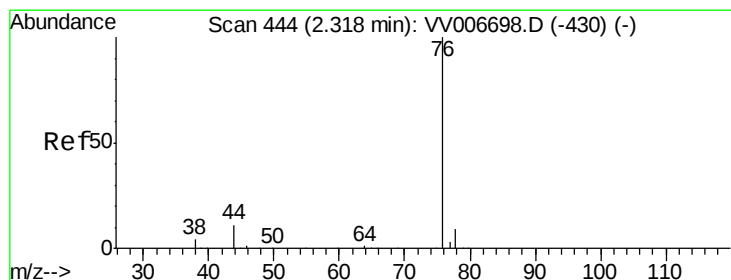
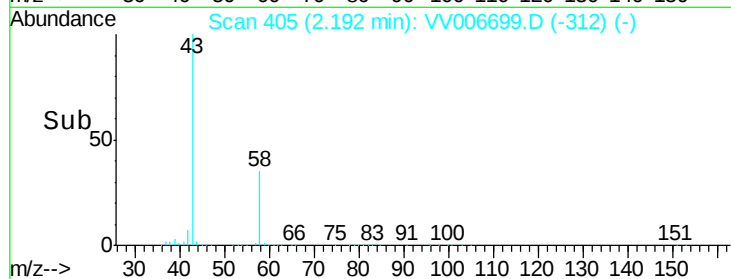
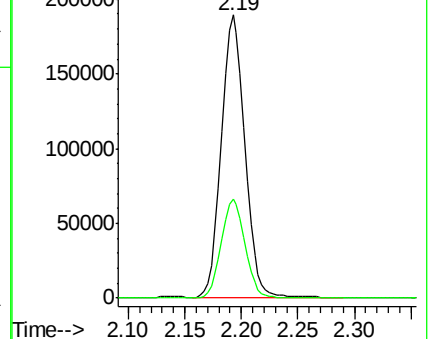
43 100

58 35.2 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV006699.D (-312) (-)

Ion 58.05 (57.75 to 58.75): VV006699.D (-312) (-)



#14

Carbon disulfide

Concen: 9.866 ug/L

RT: 2.31 min Scan# 443

Delta R.T. -0.00 min

Lab File: VV006699.D

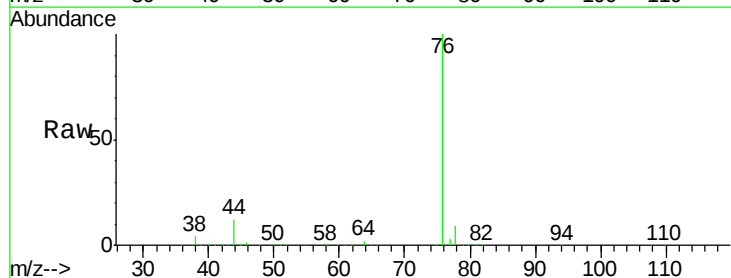
Acq: 23 Jul 2018 14:39

Tgt Ion: 76 Resp: 589151

Ion Ratio Lower Upper

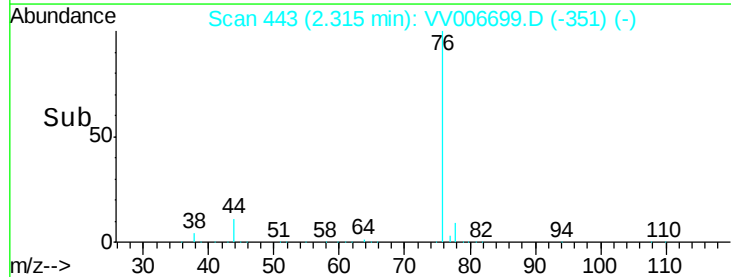
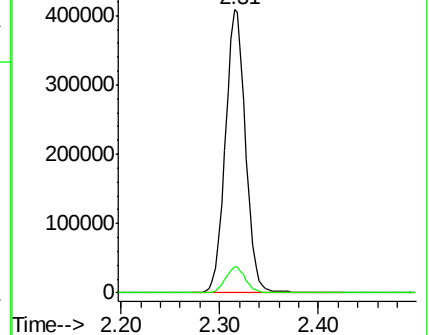
76 100

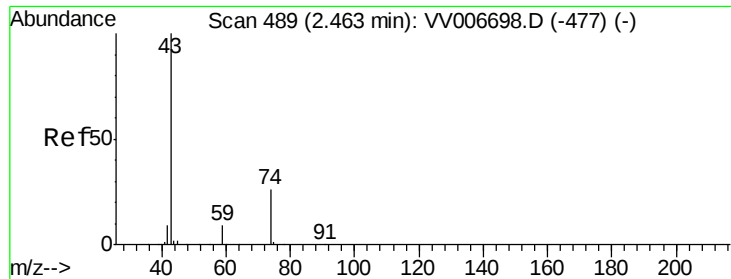
78 9.1 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV006699.D (-351) (-)

Ion 78.00 (77.70 to 78.70): VV006699.D (-351) (-)





#15

Methyl Acetate

Concen: 9.796 ug/L

RT: 2.46 min Scan# 489

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

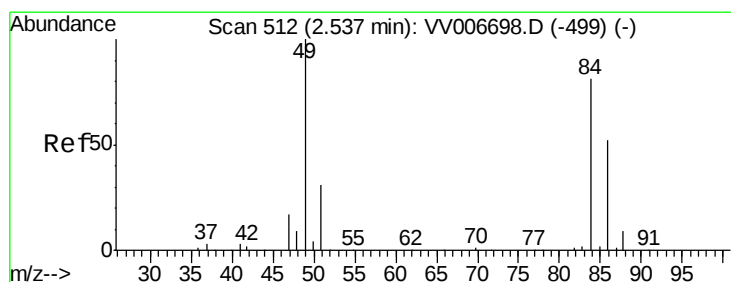
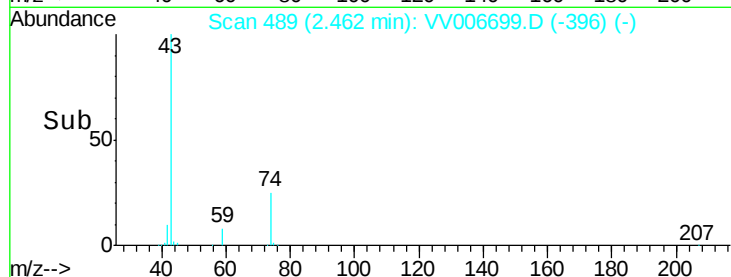
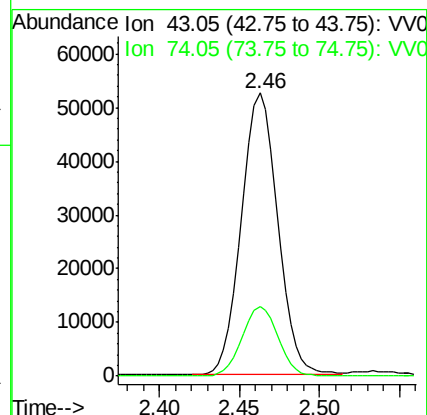
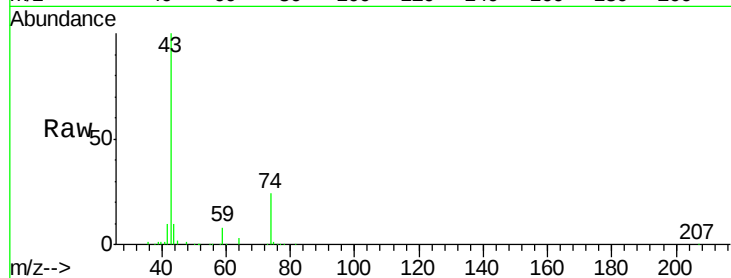
VSTD01078

Tgt Ion: 43 Resp: 81444

Ion Ratio Lower Upper

43 100

74 24.5 20.6 31.0



#16

Methylene chloride

Concen: 9.201 ug/L

RT: 2.54 min Scan# 512

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

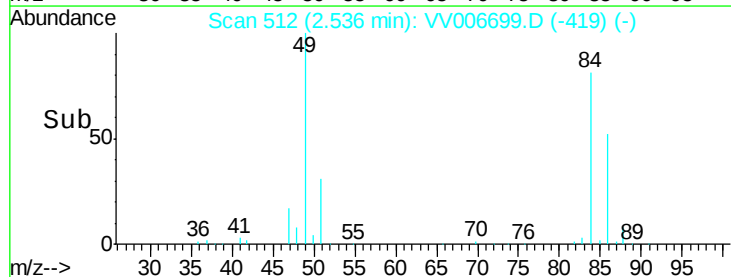
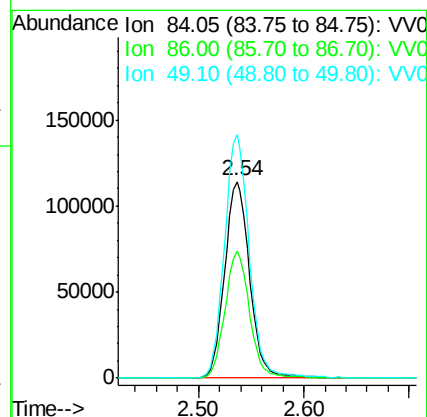
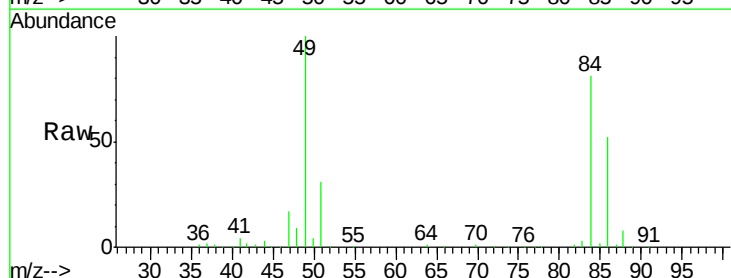
Tgt Ion: 84 Resp: 187305

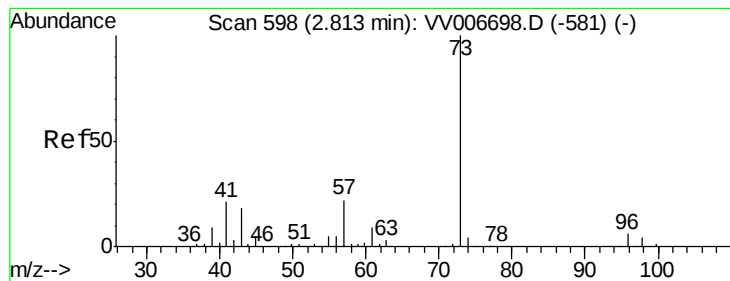
Ion Ratio Lower Upper

84 100

86 64.4 44.7 83.1

49 123.9 86.7 160.9





#17

Methyl tert-butyl Ether

Concen: 9.978 ug/L

RT: 2.81 min Scan# 598

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

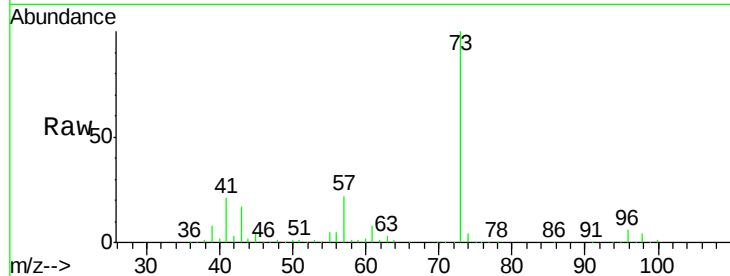
Tgt Ion: 73 Resp: 434653

Ion Ratio Lower Upper

73 100

43 17.4 14.2 21.4

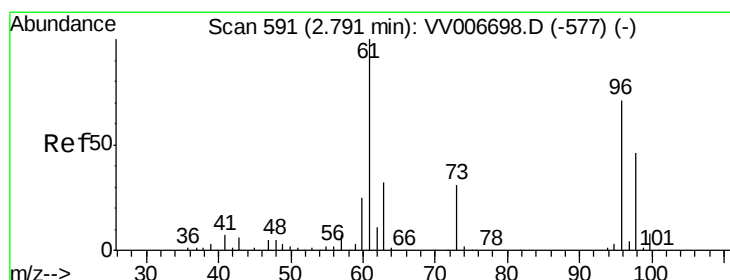
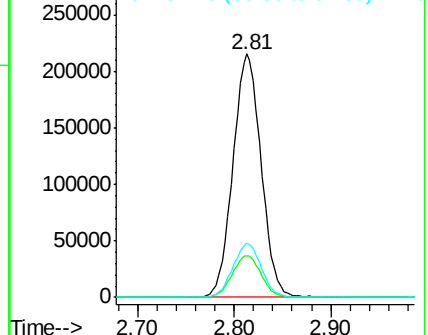
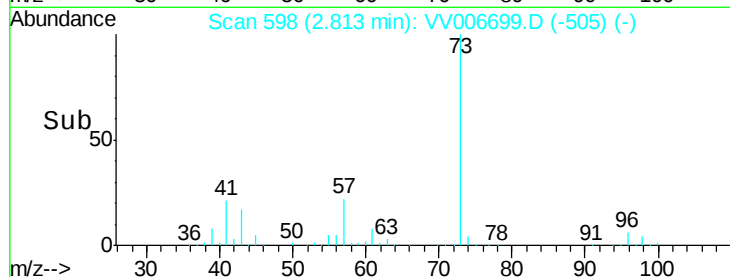
57 22.5 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VV006699.D (-505) (-)

Ion 43.05 (42.75 to 43.75): VV006699.D (-505) (-)

Ion 57.10 (56.80 to 57.80): VV006699.D (-505) (-)



#18

trans-1,2-Dichloroethene

Concen: 9.849 ug/L

RT: 2.79 min Scan# 591

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

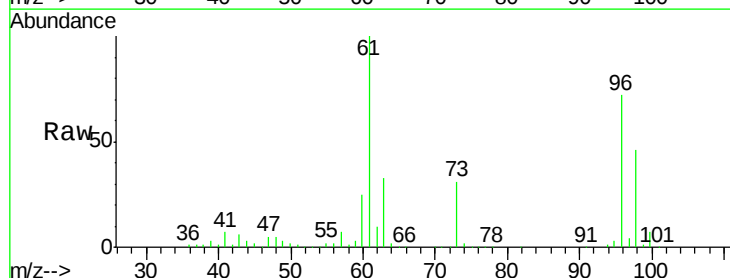
Tgt Ion: 96 Resp: 189961

Ion Ratio Lower Upper

96 100

61 138.5 98.5 182.9

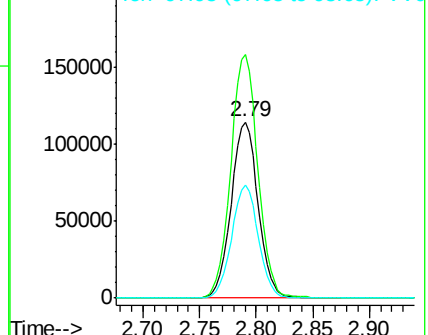
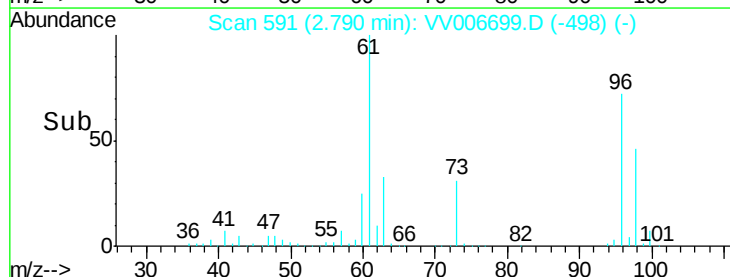
98 64.0 45.4 84.4

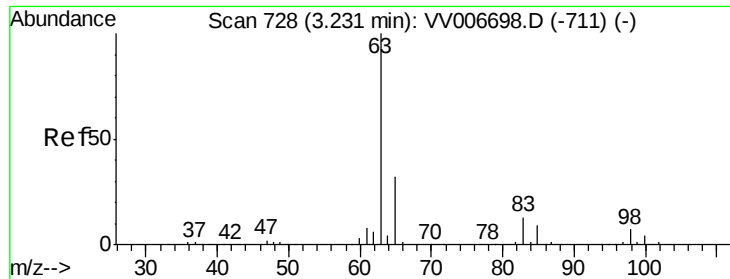


Abundance Ion 96.00 (95.70 to 96.70): VV006699.D (-498) (-)

Ion 61.05 (60.75 to 61.75): VV006699.D (-498) (-)

Ion 97.95 (97.65 to 98.65): VV006699.D (-498) (-)

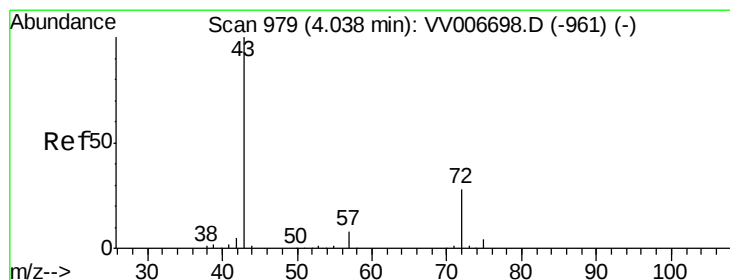
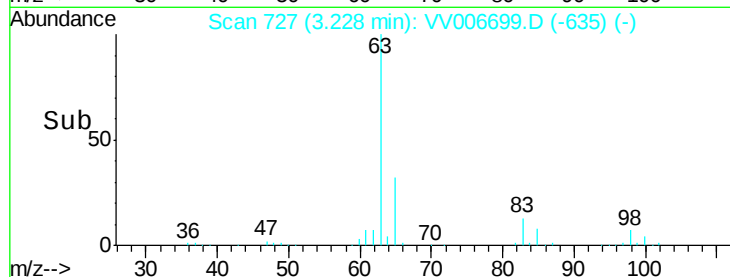
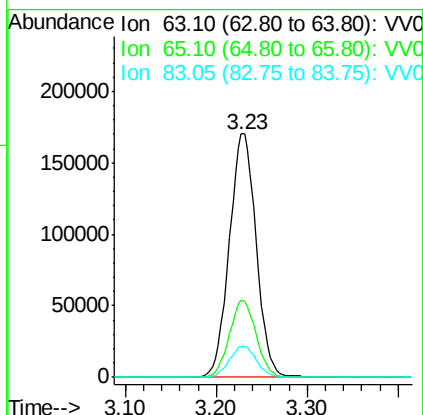
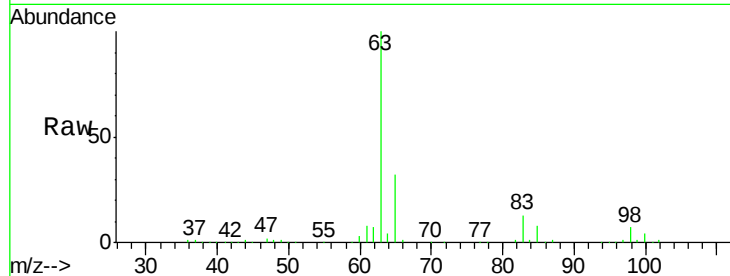




#19  
 1,1-Dichloroethane  
 Concen: 9.840 ug/L  
 RT: 3.23 min Scan# 727  
 Delta R.T. -0.00 min  
 Lab File: VV006699.D  
 Acq: 23 Jul 2018 14:39

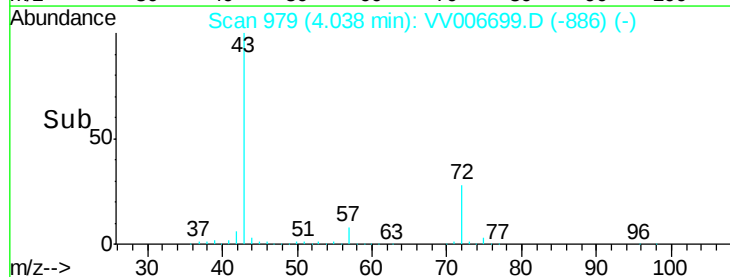
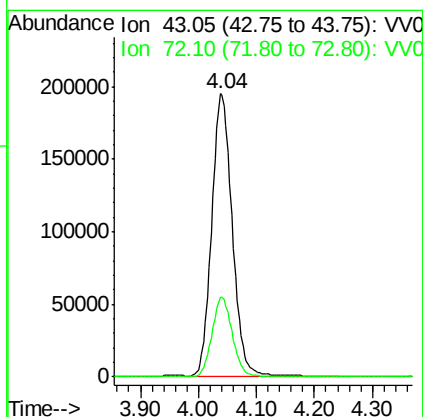
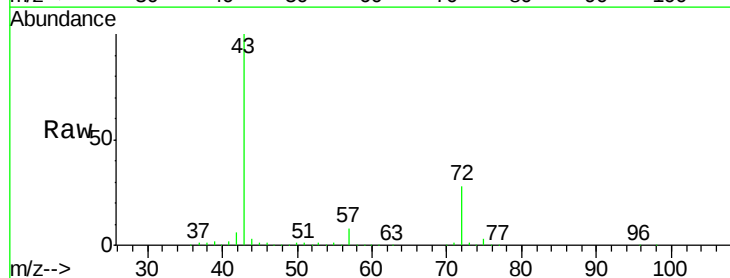
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01078

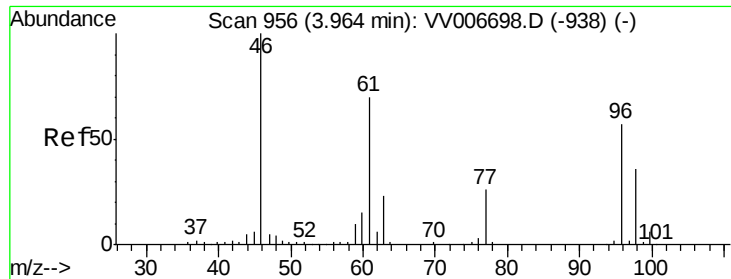
Tgt Ion: 63 Resp: 349114  
 Ion Ratio Lower Upper  
 63 100  
 65 31.7 22.4 41.6  
 83 12.9 9.0 16.8



#21  
 2-Butanone  
 Concen: 101.869 ug/L  
 RT: 4.04 min Scan# 979  
 Delta R.T. -0.00 min  
 Lab File: VV006699.D  
 Acq: 23 Jul 2018 14:39

Tgt Ion: 43 Resp: 478532  
 Ion Ratio Lower Upper  
 43 100  
 72 28.1 13.8 41.4



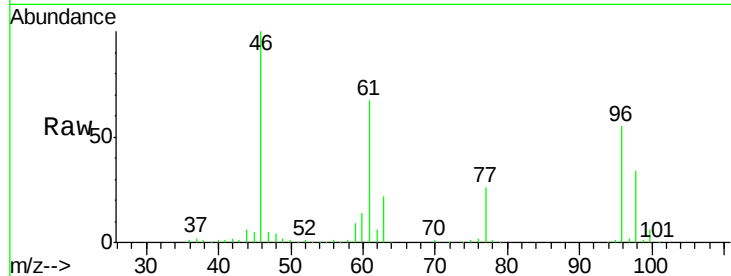


#22

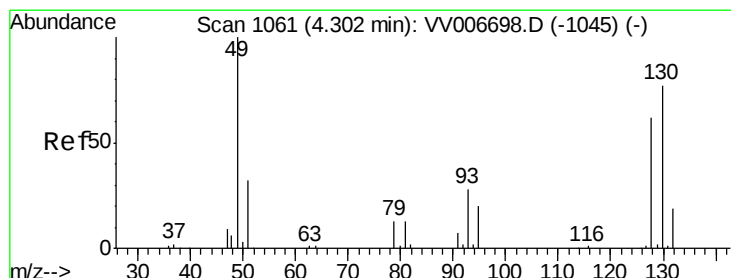
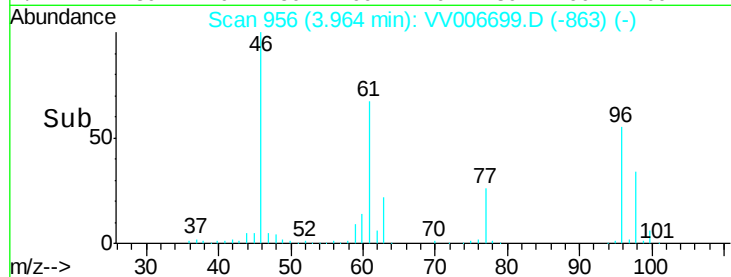
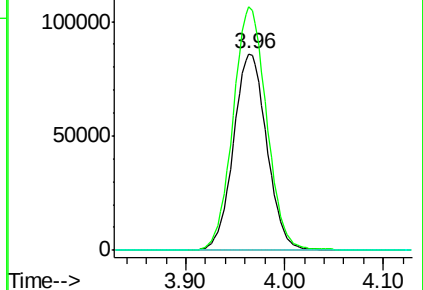
cis-1,2-Dichloroethene  
Concen: 10.016 ug/L  
RT: 3.96 min Scan# 956  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01078

Tgt Ion: 96 Resp: 201445  
Ion Ratio Lower Upper  
96 100  
61 123.7 85.5 158.9  
68 0.0 0.0 0.0



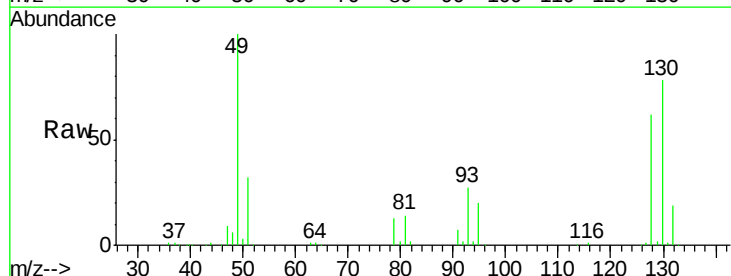
Abundance Ion 96.00 (95.70 to 96.70): VV006699.D (-963) (-)  
Ion 61.05 (60.75 to 61.75): VV006699.D (-963) (-)  
Ion 68.15 (67.85 to 68.85): VV006699.D (-963) (-)



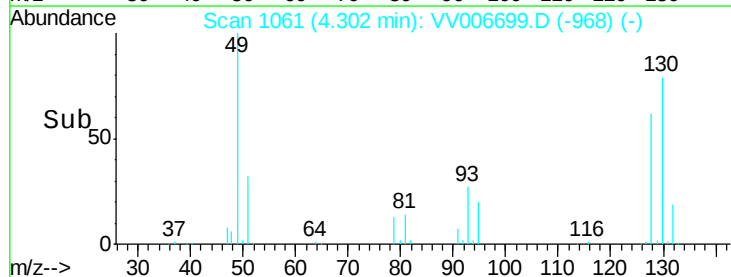
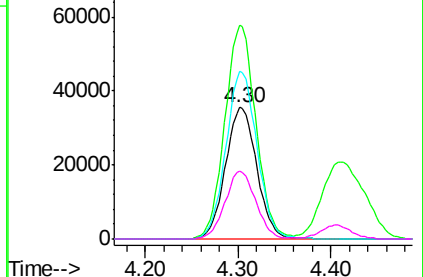
#23

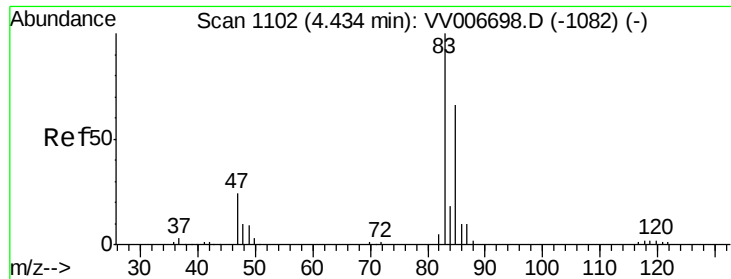
Bromochloromethane  
Concen: 10.055 ug/L  
RT: 4.30 min Scan# 1061  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Tgt Ion: 128 Resp: 83215  
Ion Ratio Lower Upper  
128 100  
49 162.1 112.6 209.0  
130 127.2 87.1 161.7  
51 51.3 40.9 61.3



Abundance Ion 127.90 (127.60 to 128.60): VV006699.D (-968) (-)  
Ion 49.10 (48.80 to 49.80): VV006699.D (-968) (-)  
Ion 129.95 (129.65 to 130.65): VV006699.D (-968) (-)  
Ion 51.05 (50.75 to 51.75): VV006699.D (-968) (-)

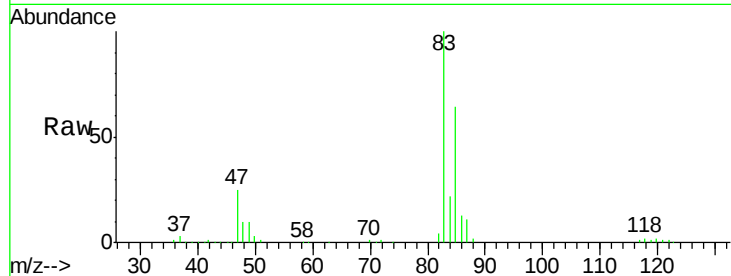




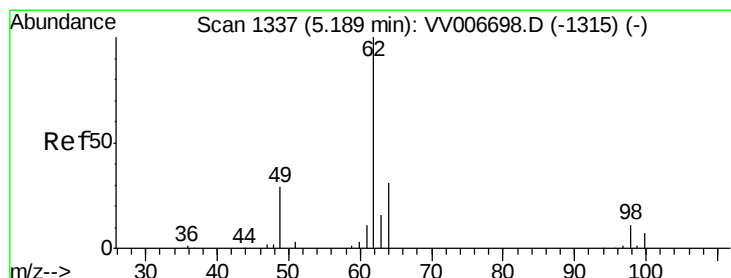
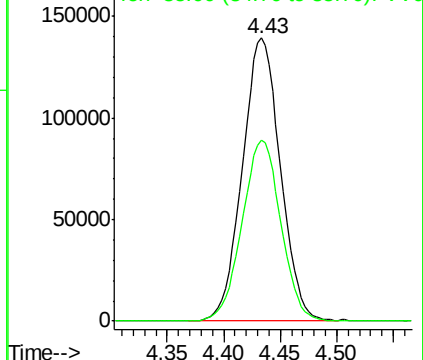
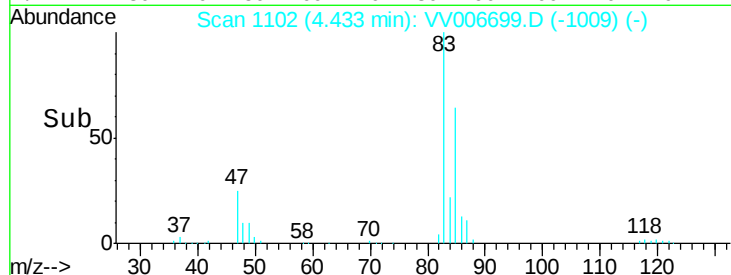
#25  
Chloroform  
Concen: 9.786 ug/L  
RT: 4.43 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01078

Tgt Ion: 83 Resp: 325793  
Ion Ratio Lower Upper  
83 100  
85 63.8 46.1 85.5

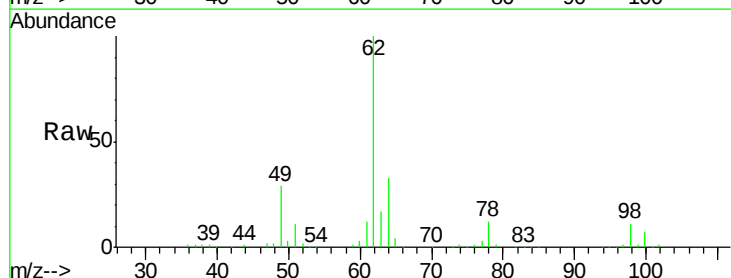


Abundance Ion 83.05 (82.75 to 83.75): VV006699.D (-1009) (-)  
Ion 85.00 (84.70 to 85.70): VV006699.D (-1009) (-)

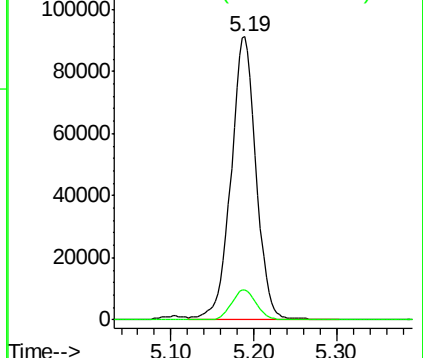
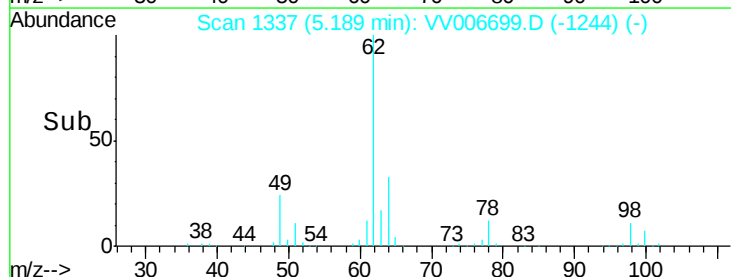


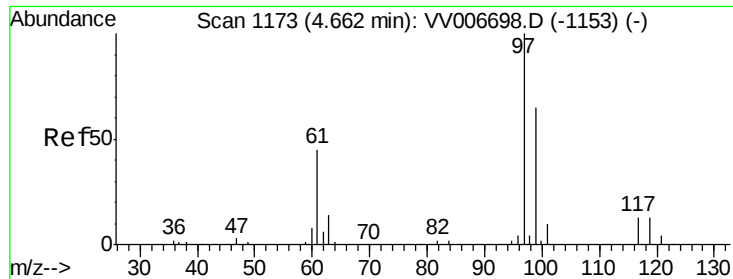
#27  
1,2-Dichloroethane  
Concen: 9.822 ug/L  
RT: 5.19 min Scan# 1337  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Tgt Ion: 62 Resp: 191852  
Ion Ratio Lower Upper  
62 100  
98 10.8 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VV006699.D (-1244) (-)  
Ion 98.05 (97.75 to 98.75): VV006699.D (-1244) (-)

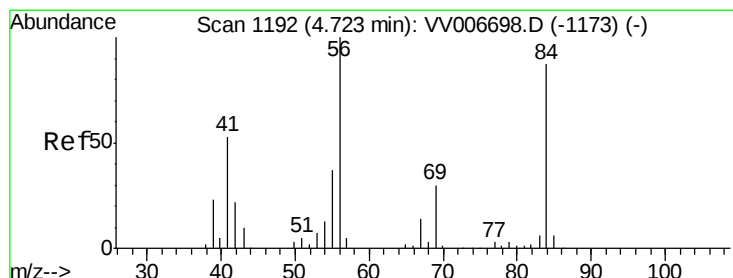
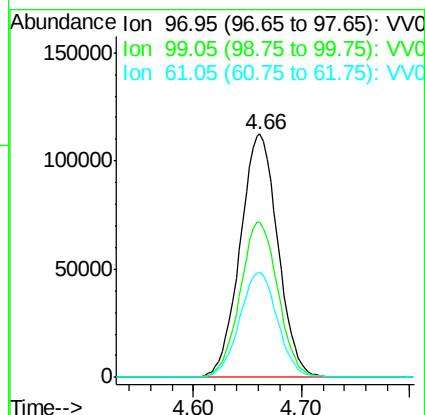
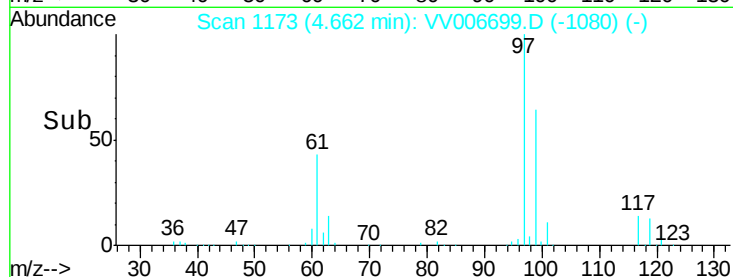
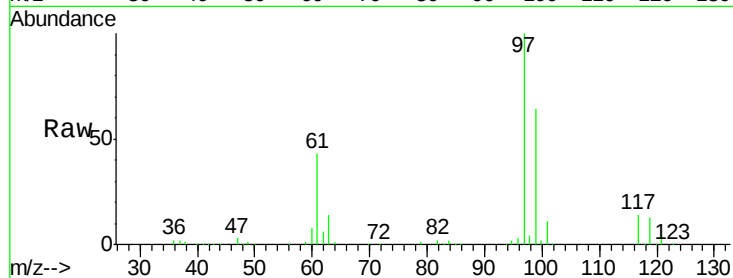




#29  
 1,1,1-Trichloroethane  
 Concen: 9.968 ug/L  
 RT: 4.66 min Scan# 1173  
 Delta R.T. -0.00 min  
 Lab File: VV006699.D  
 Acq: 23 Jul 2018 14:39

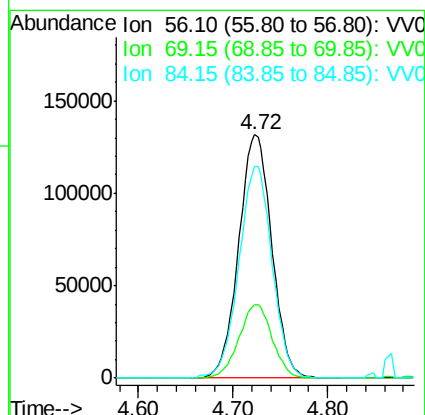
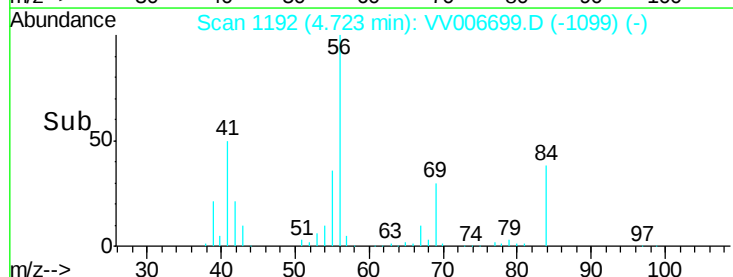
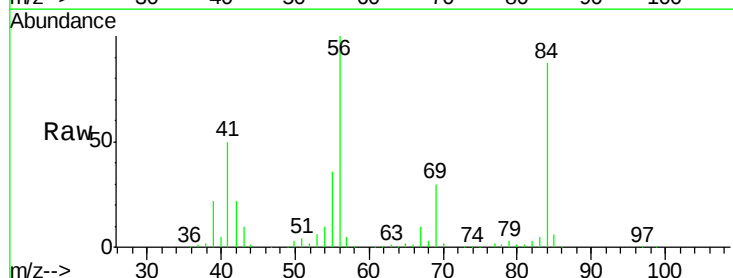
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01078

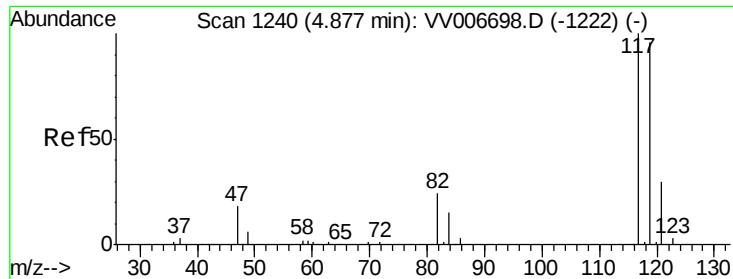
Tgt Ion: 97 Resp: 273428  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 51.7 77.5  
 61 43.5 34.9 52.3



#30  
 Cyclohexane  
 Concen: 10.408 ug/L  
 RT: 4.72 min Scan# 1192  
 Delta R.T. -0.00 min  
 Lab File: VV006699.D  
 Acq: 23 Jul 2018 14:39

Tgt Ion: 56 Resp: 319639  
 Ion Ratio Lower Upper  
 56 100  
 69 30.6 24.6 36.8  
 84 87.6 71.4 107.2





#31

Carbon tetrachloride

Concen: 10.149 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

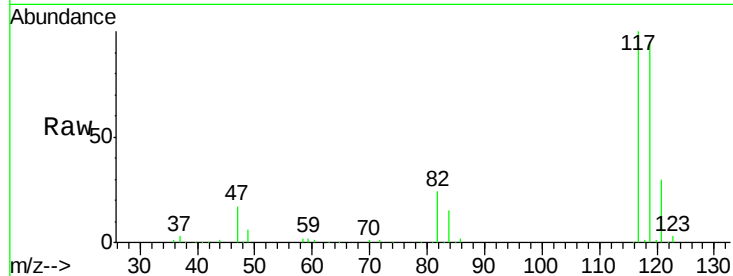
VSTD01078

Tgt Ion:117 Resp: 237948

Ion Ratio Lower Upper

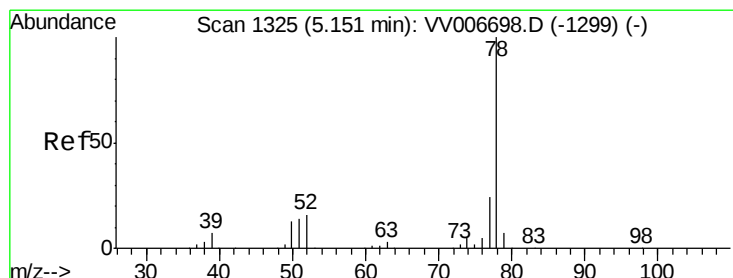
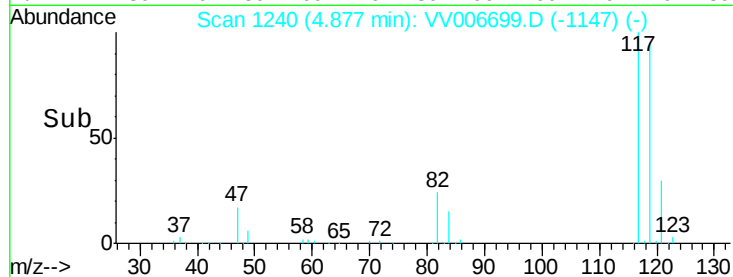
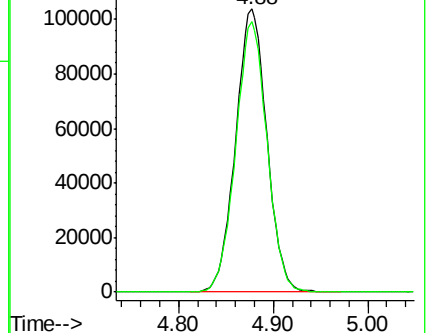
117 100

119 95.9 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 10.049 ug/L

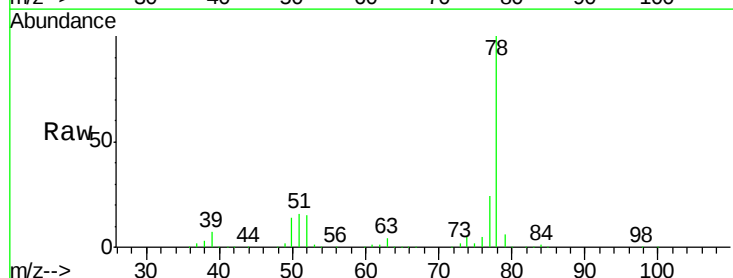
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

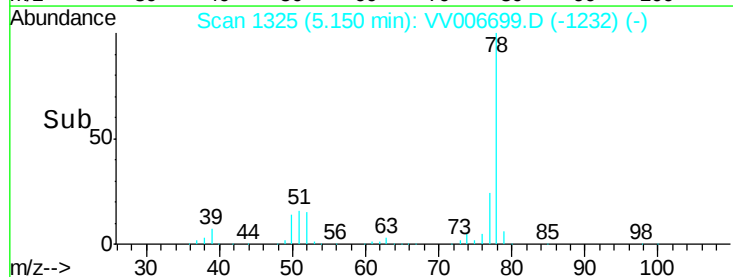
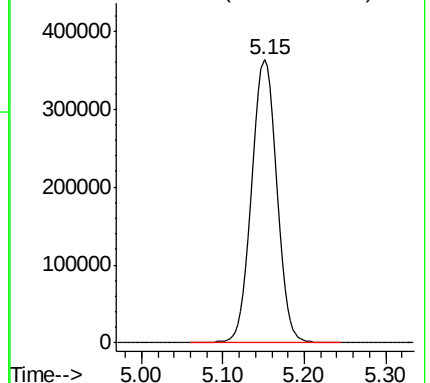
Lab File: VV006699.D

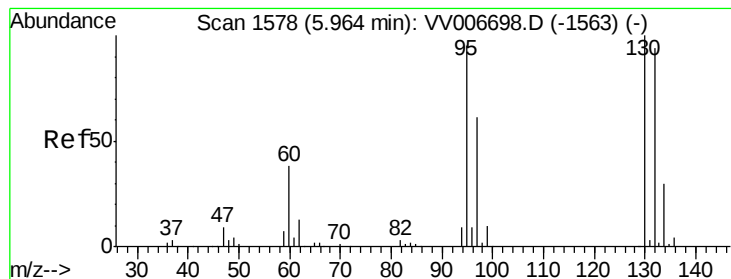
Acq: 23 Jul 2018 14:39

Tgt Ion: 78 Resp: 770241



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 9.801 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

Tgt Ion: 95 Resp: 189638

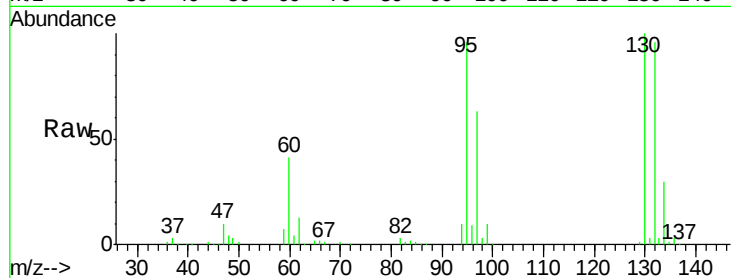
Ion Ratio Lower Upper

95 100

97 65.2 44.9 83.3

132 99.9 68.9 127.9

130 103.8 73.4 136.4

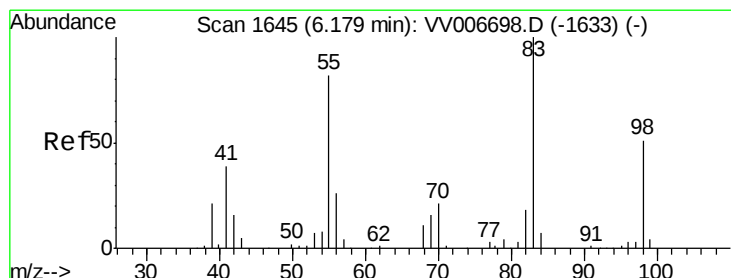
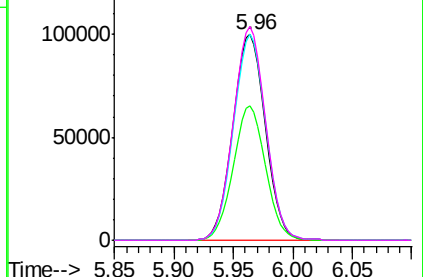
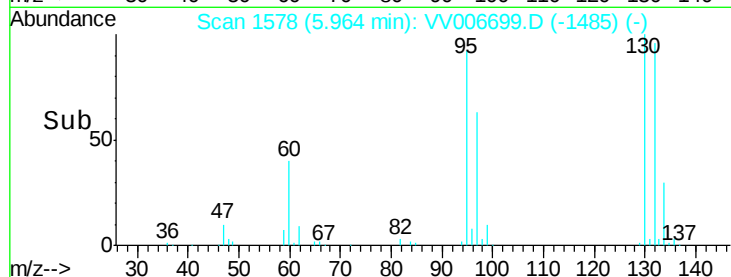


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 10.472 ug/L

RT: 6.18 min Scan# 1645

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

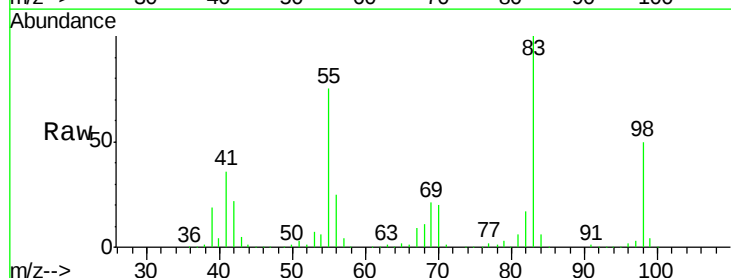
Tgt Ion: 83 Resp: 338478

Ion Ratio Lower Upper

83 100

55 76.1 61.9 92.9

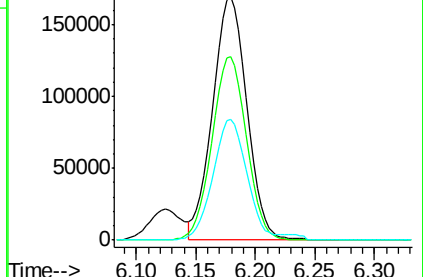
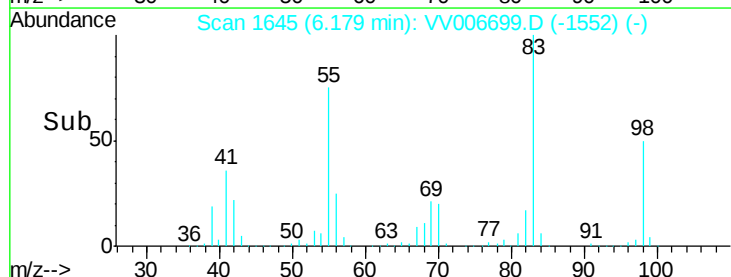
98 49.1 39.7 59.5

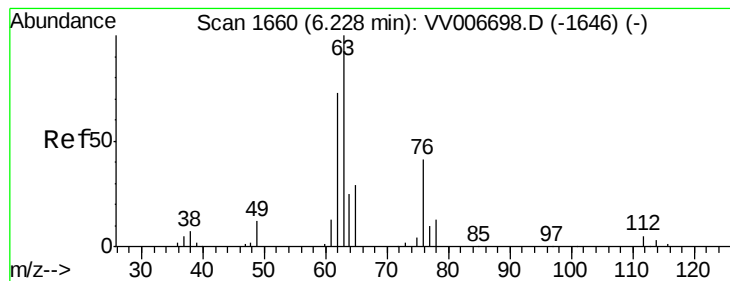


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 9.750 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

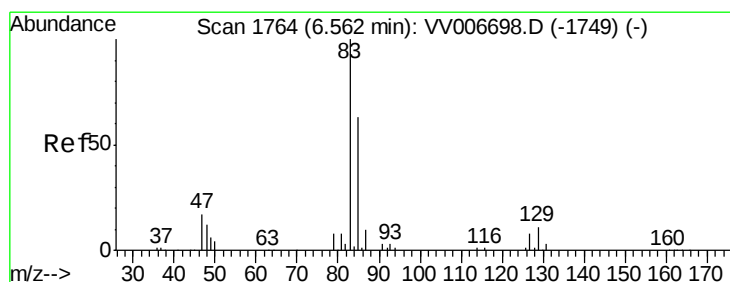
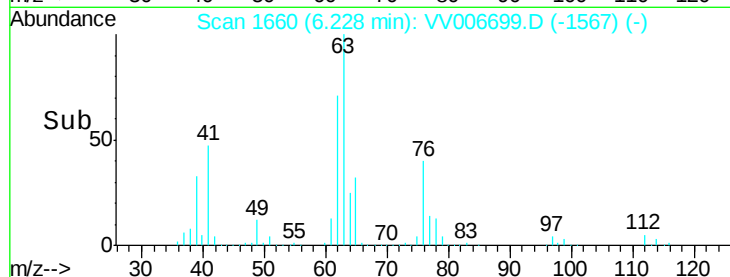
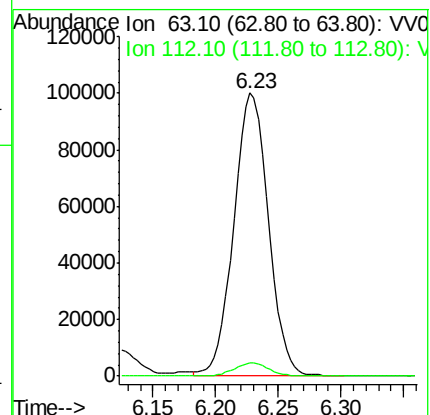
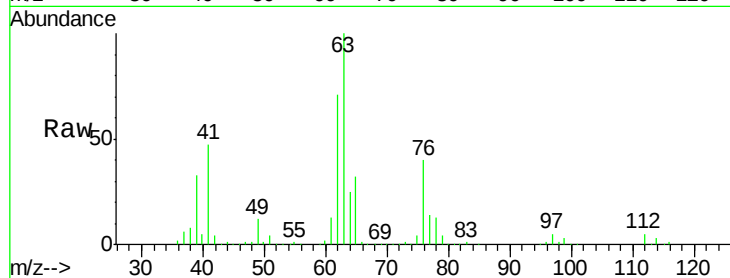
VSTD01078

Tgt Ion: 63 Resp: 191853

Ion Ratio Lower Upper

63 100

112 4.6 3.8 5.6



#38

Bromodichloromethane

Concen: 10.092 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

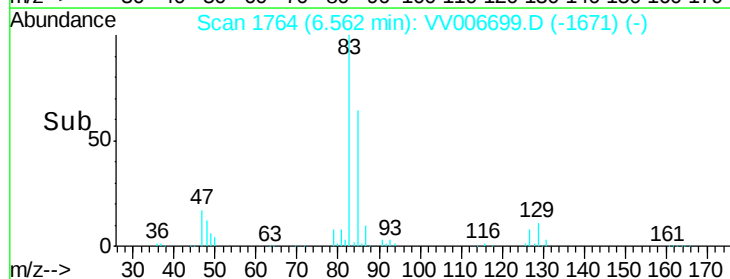
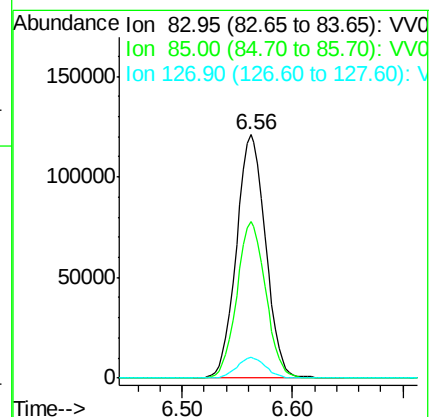
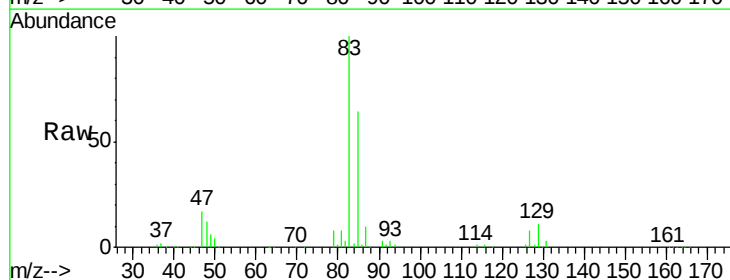
Tgt Ion: 83 Resp: 221795

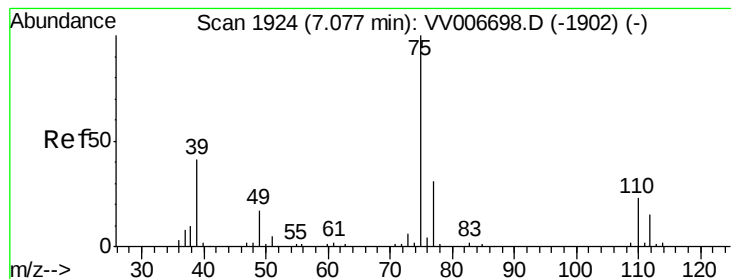
Ion Ratio Lower Upper

83 100

85 64.1 44.4 82.4

127 8.4 6.6 9.8



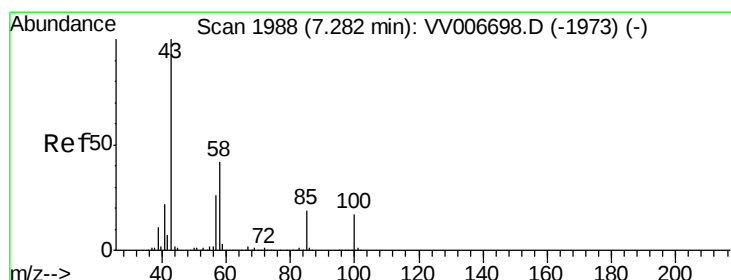
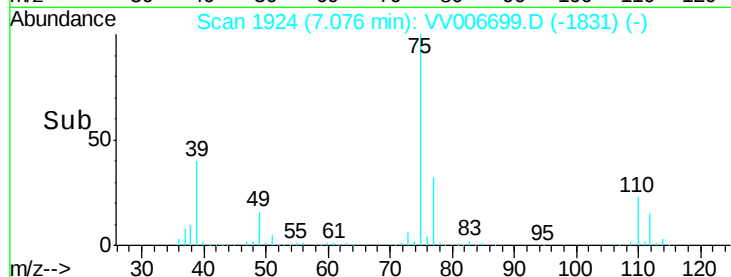
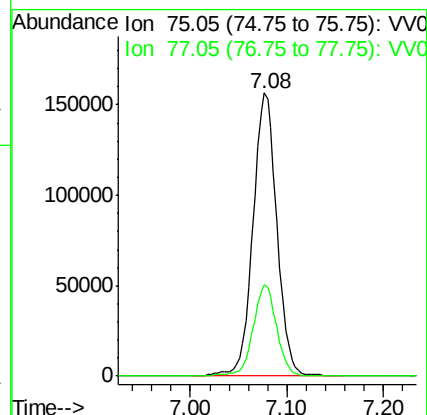
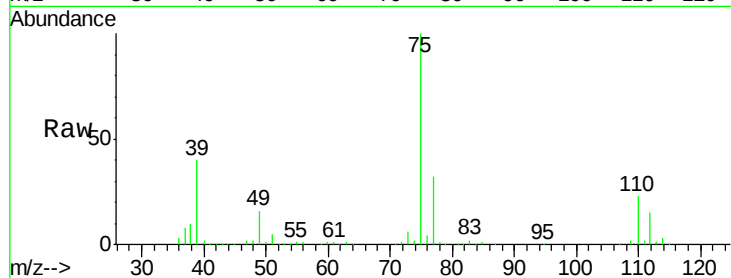


#39

cis-1,3-Dichloropropene  
Concen: 10.472 ug/L  
RT: 7.08 min Scan# 1924  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01078

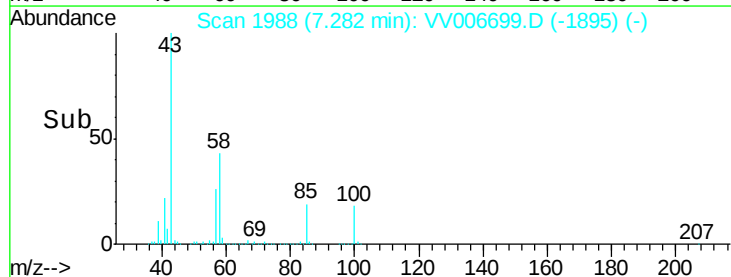
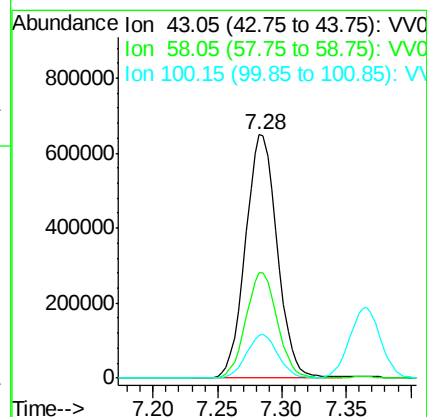
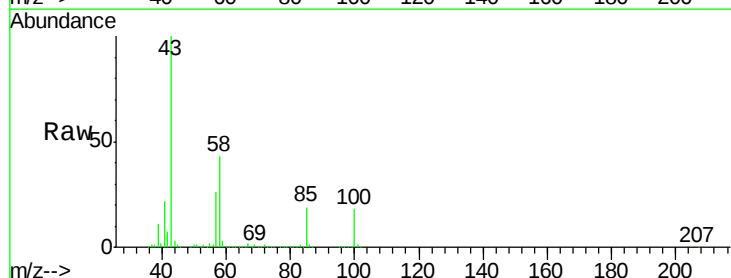
Tgt Ion: 75 Resp: 268412  
Ion Ratio Lower Upper  
75 100  
77 32.4 22.0 40.8

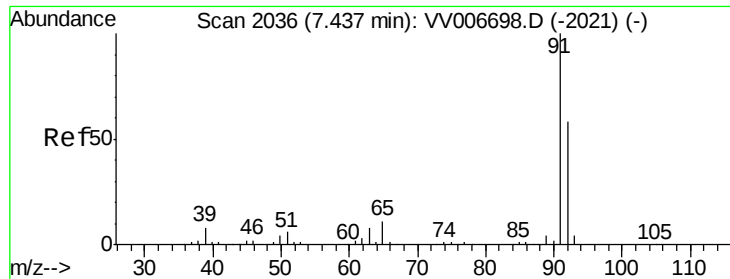


#40

4-Methyl-2-pentanone  
Concen: 102.987 ug/L  
RT: 7.28 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Tgt Ion: 43 Resp: 1113956  
Ion Ratio Lower Upper  
43 100  
58 42.9 33.4 50.0  
100 17.6 13.6 20.4





#42

Toluene

Concen: 10.209 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

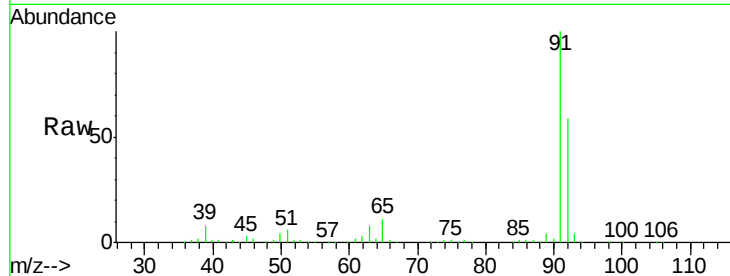
VSTD01078

Tgt Ion: 91 Resp: 805774

Ion Ratio Lower Upper

91 100

92 58.8 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.44

500000

400000

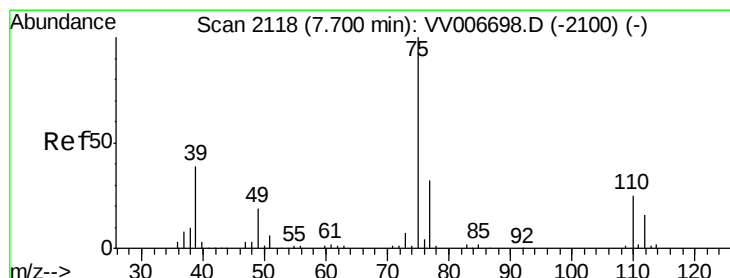
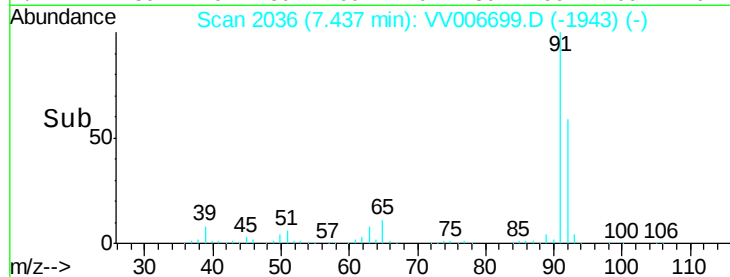
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 10.653 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006699.D

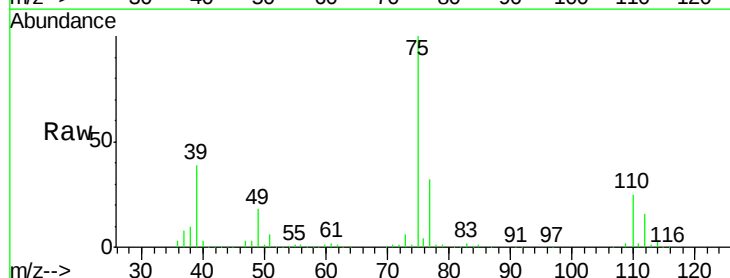
Acq: 23 Jul 2018 14:39

Tgt Ion: 75 Resp: 214708

Ion Ratio Lower Upper

75 100

77 32.0 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.70

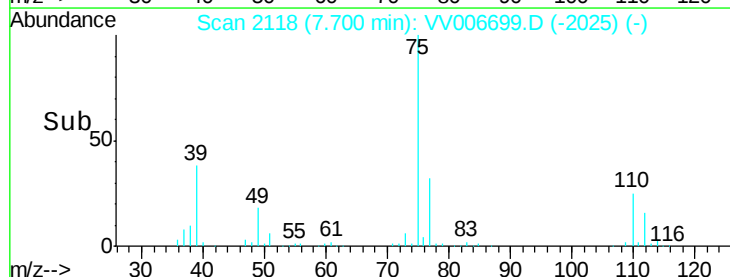
150000

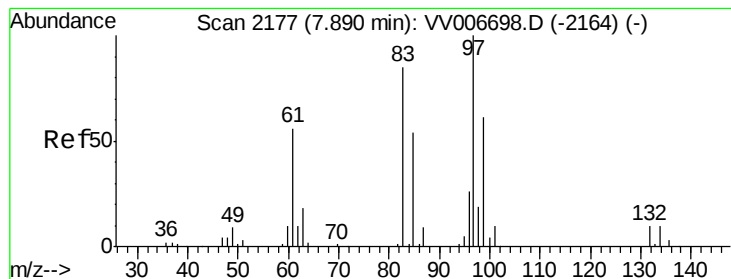
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 9.951 ug/L

RT: 7.89 min Scan# 2177

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

Tgt Ion: 97 Resp: 131867

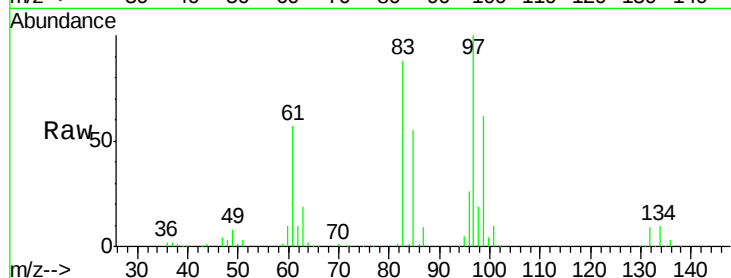
Ion Ratio Lower Upper

97 100

99 61.8 43.0 79.8

83 87.6 59.4 110.4

85 55.1 37.5 69.7

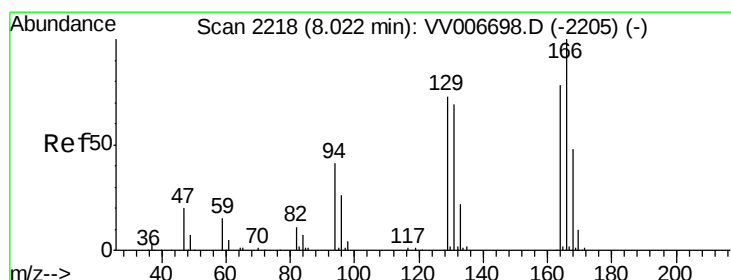
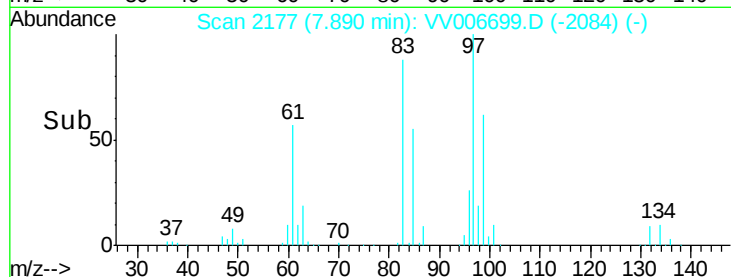
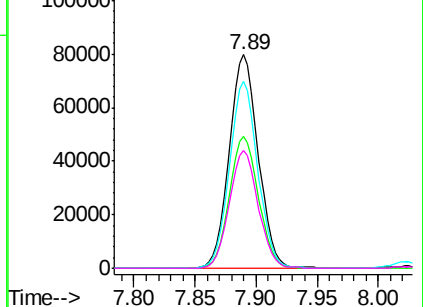


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 10.039 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Tgt Ion: 164 Resp: 154284

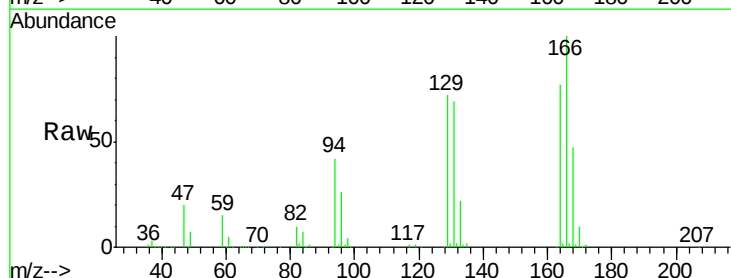
Ion Ratio Lower Upper

164 100

129 92.7 65.0 120.8

131 89.4 61.9 115.1

166 129.1 89.3 165.9

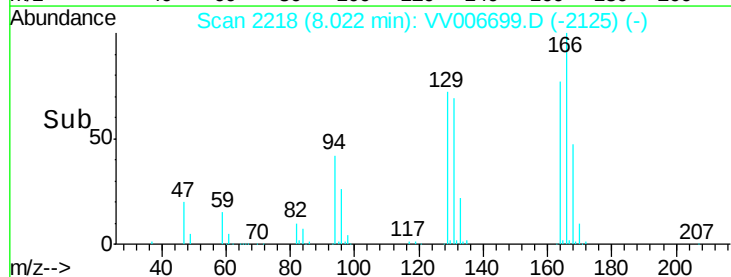
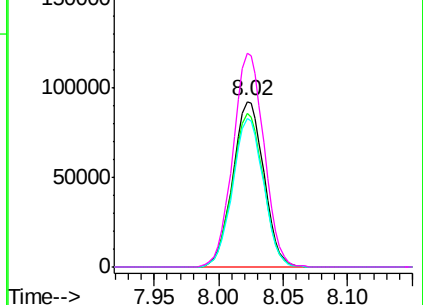


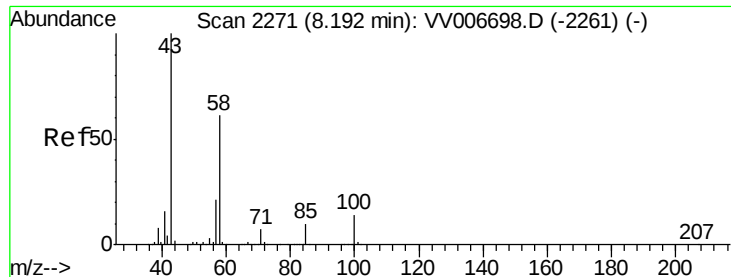
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

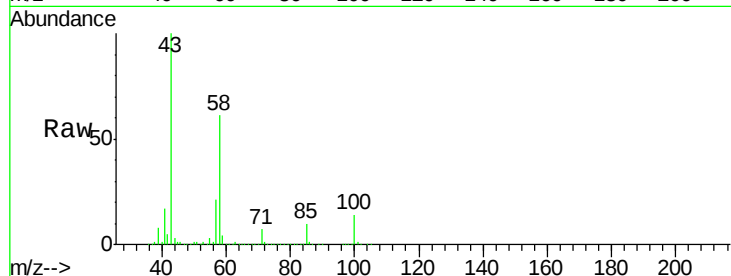




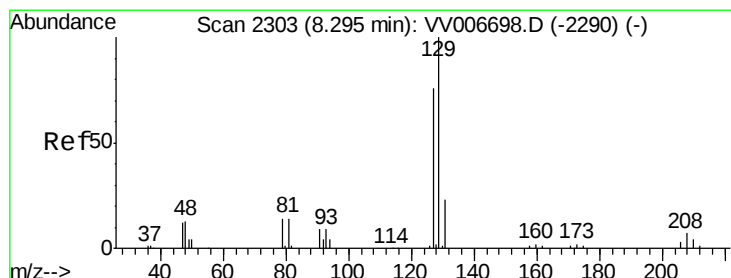
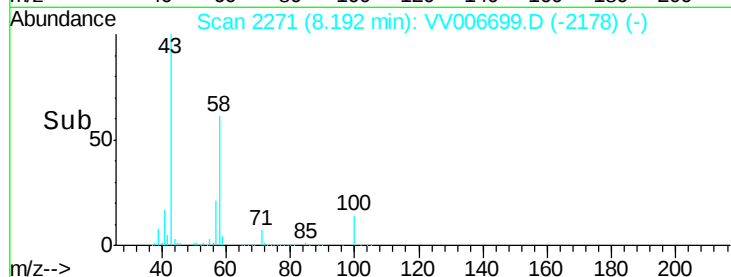
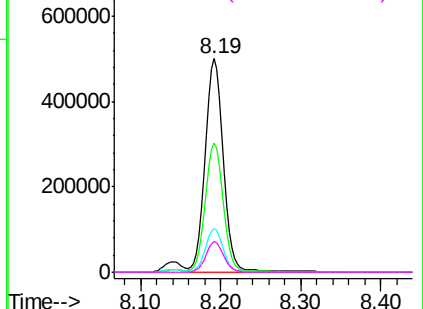
#48  
2-Hexanone  
Concen: 105.533 ug/L  
RT: 8.19 min Scan# 2271  
Delta R.T. -0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01078

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 796500 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 59.3  | 47.2  | 70.8   |
| 57       | 20.1  | 16.1  | 24.1   |
| 100      | 13.9  | 11.1  | 16.7   |

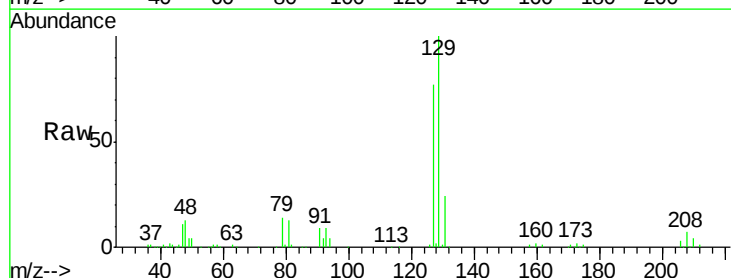


Abundance Ion 43.05 (42.75 to 43.75): VV006699.D (-2178) (-)  
Ion 58.05 (57.75 to 58.75): VV006699.D (-2178) (-)  
Ion 57.20 (56.90 to 57.90): VV006699.D (-2178) (-)  
Ion 100.15 (99.85 to 100.85): VV006699.D (-2178) (-)

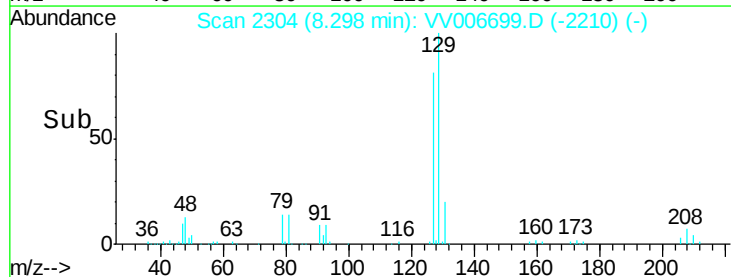
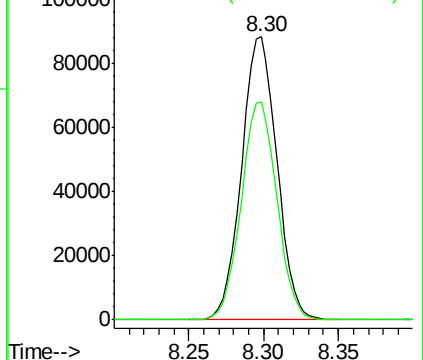


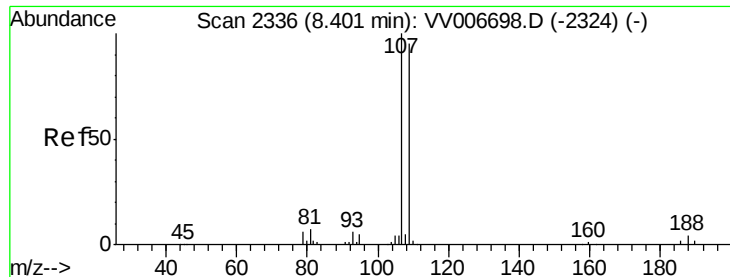
#49  
Dibromochloromethane  
Concen: 10.378 ug/L  
RT: 8.30 min Scan# 2304  
Delta R.T. 0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 145545 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.0  | 53.5  | 99.5   |



Abundance Ion 128.95 (128.65 to 129.65): VV006699.D (-2210) (-)  
Ion 126.90 (126.60 to 127.60): VV006699.D (-2210) (-)

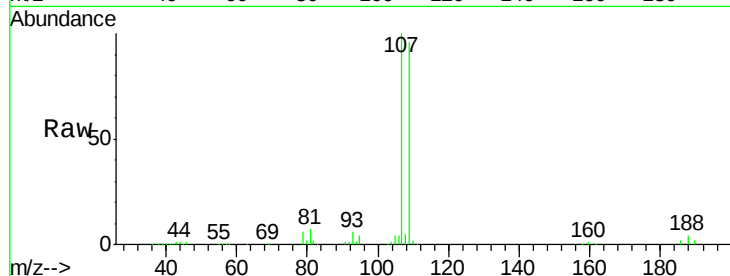




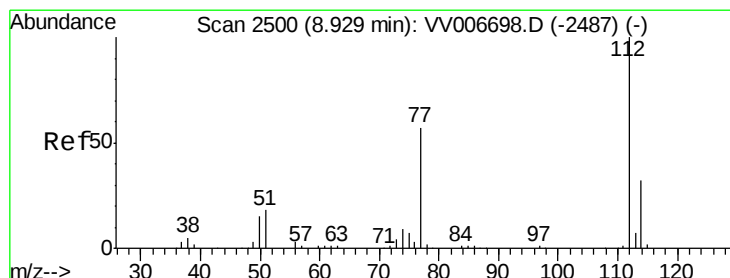
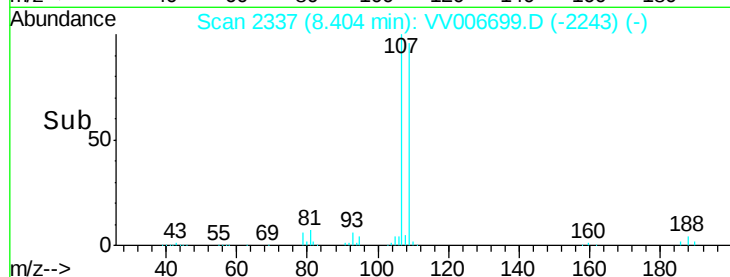
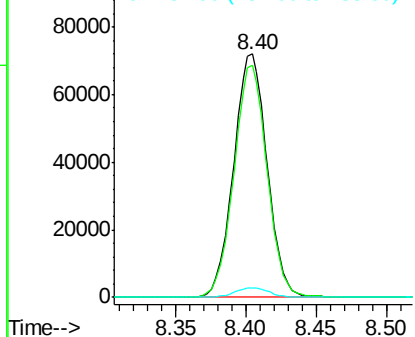
#50  
1,2-Dibromoethane  
Concen: 10.100 ug/L  
RT: 8.40 min Scan# 2337  
Delta R.T. 0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01078

Tgt Ion:107 Resp: 119616  
Ion Ratio Lower Upper  
107 100  
109 95.6 66.8 124.0  
188 4.0 3.1 4.7

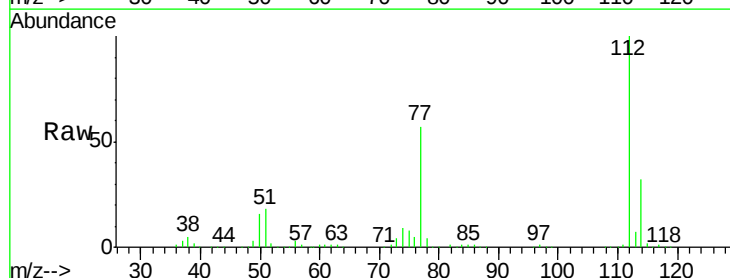


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

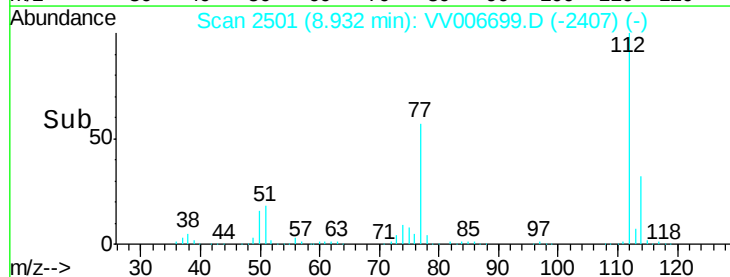
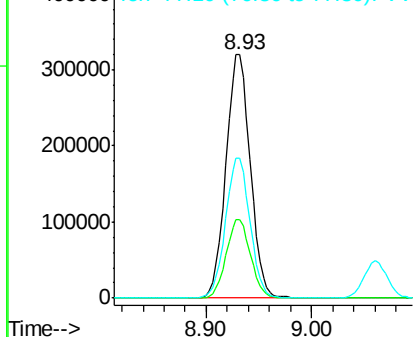


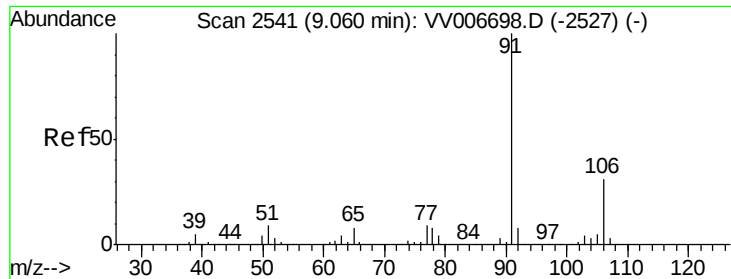
#51  
Chlorobenzene  
Concen: 9.949 ug/L  
RT: 8.93 min Scan# 2501  
Delta R.T. 0.00 min  
Lab File: VV006699.D  
Acq: 23 Jul 2018 14:39

Tgt Ion:112 Resp: 510741  
Ion Ratio Lower Upper  
112 100  
114 32.4 22.5 41.9  
77 57.3 46.2 69.2



Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 10.415 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

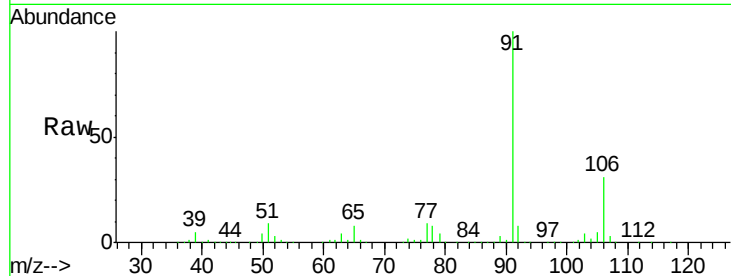
VSTD01078

Tgt Ion: 91 Resp: 876278

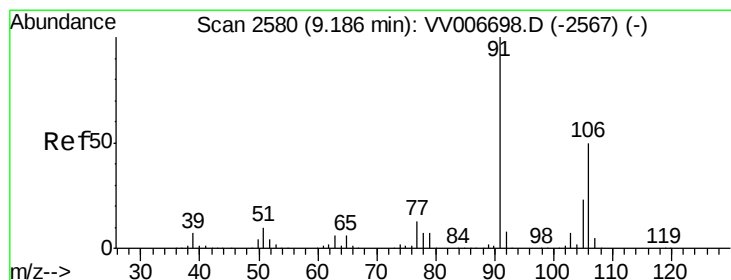
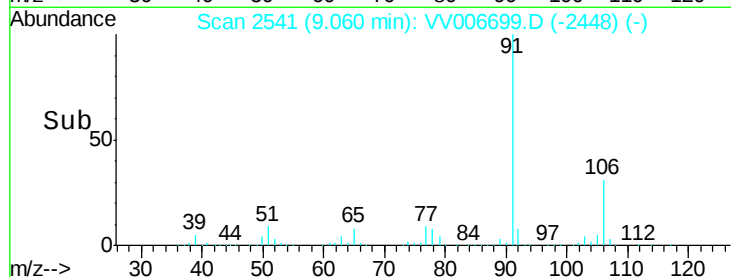
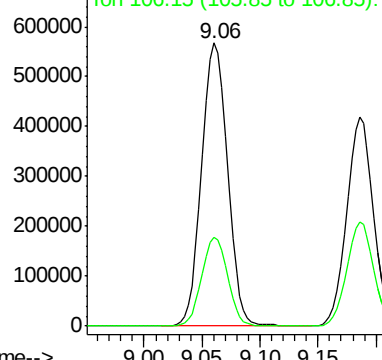
Ion Ratio Lower Upper

91 100

106 31.4 21.8 40.6



Abundance Ion 91.15 (90.85 to 91.85): VV006699.D (-2448) (-)



#53

m,p-xylene

Concen: 10.622 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006699.D

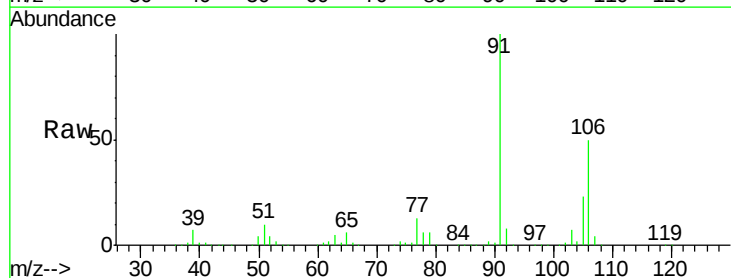
Acq: 23 Jul 2018 14:39

Tgt Ion: 106 Resp: 337369

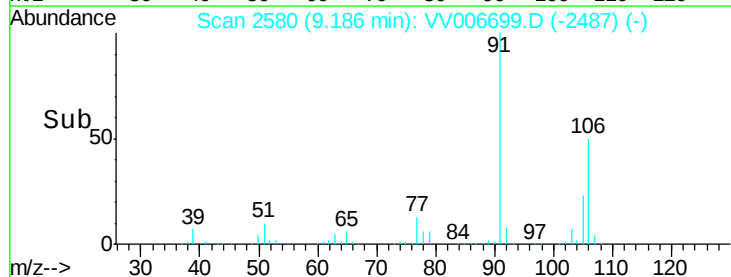
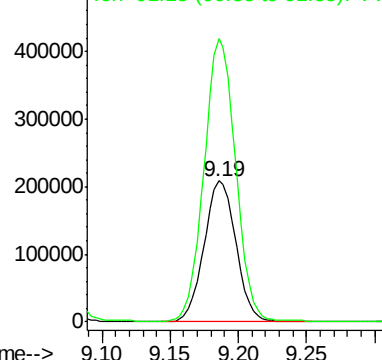
Ion Ratio Lower Upper

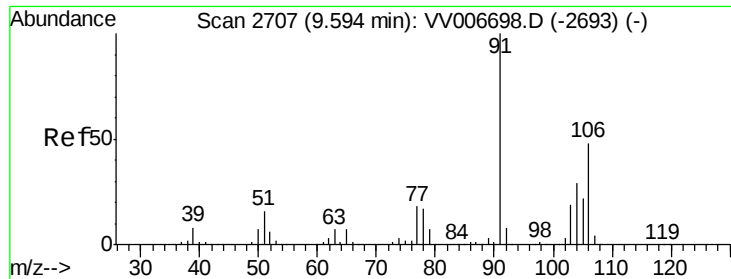
106 100

91 201.0 140.3 260.5



Abundance Ion 106.15 (105.85 to 106.85): VV006699.D (-2487) (-)





#54

o-xylene

Concen: 10.655 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

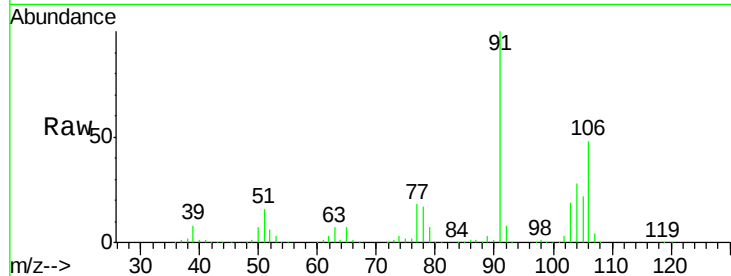
VSTD01078

Tgt Ion:106 Resp: 329692

Ion Ratio Lower Upper

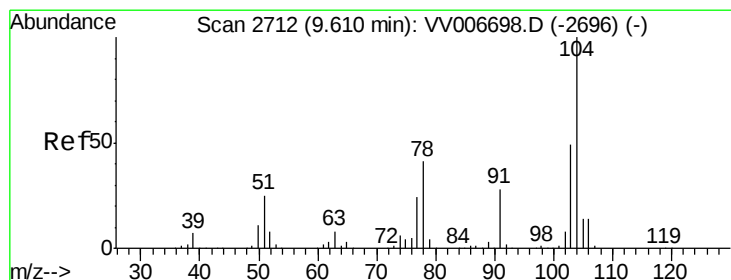
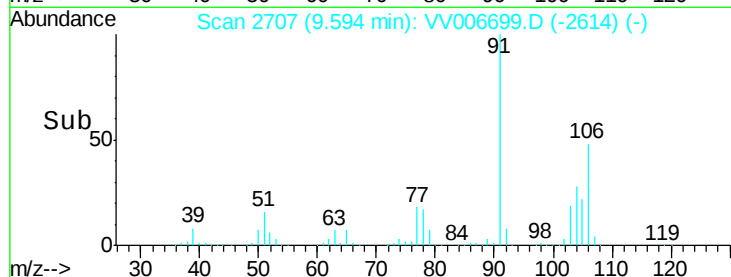
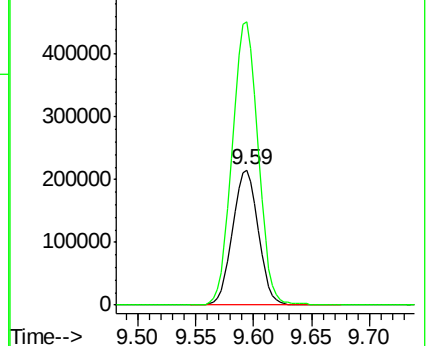
106 100

91 209.8 146.0 271.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 10.878 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. -0.00 min

Lab File: VV006699.D

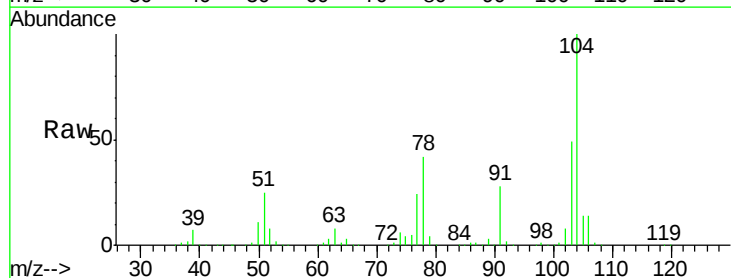
Acq: 23 Jul 2018 14:39

Tgt Ion:104 Resp: 567679

Ion Ratio Lower Upper

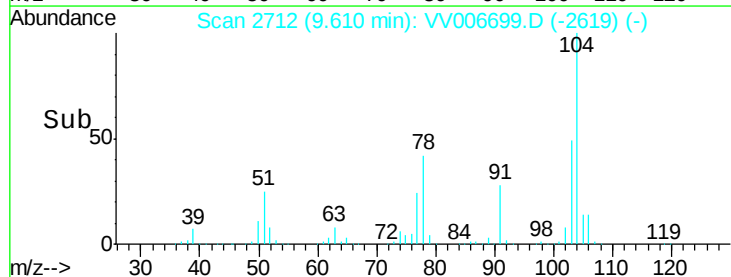
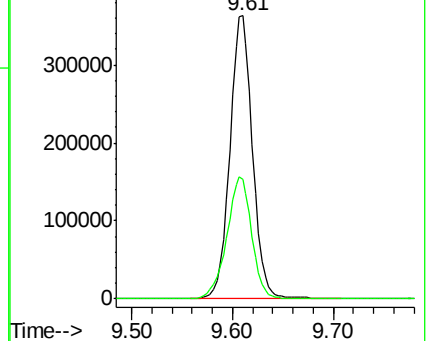
104 100

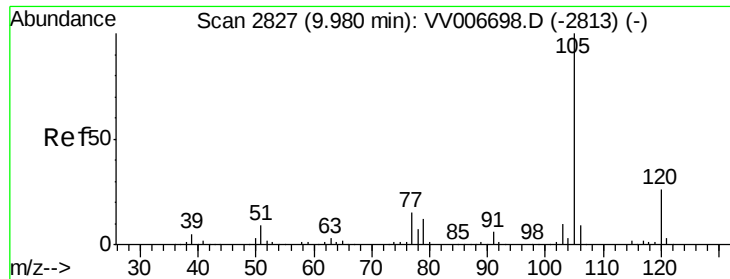
78 42.1 29.0 53.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 10.791 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

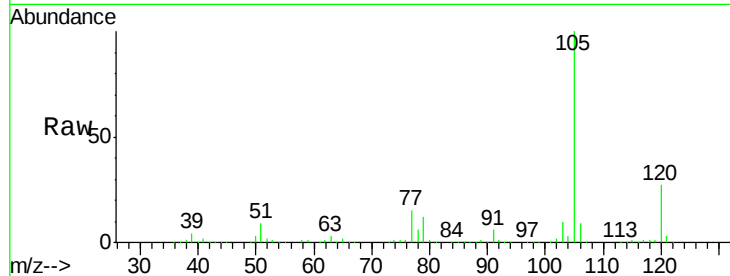
Tgt Ion:105 Resp: 867089

Ion Ratio Lower Upper

105 100

120 26.6 21.5 32.3

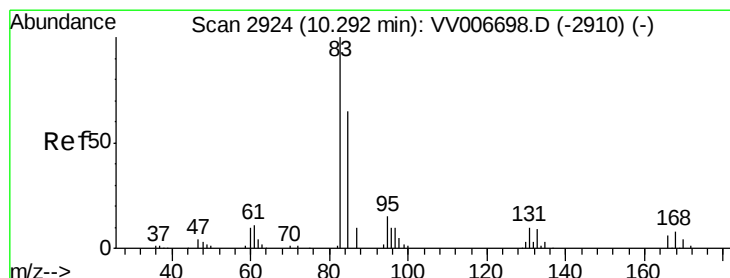
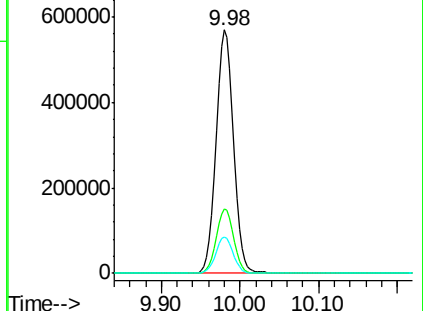
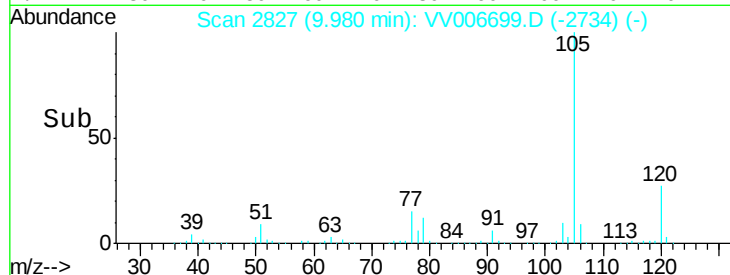
77 14.9 12.2 18.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.054 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

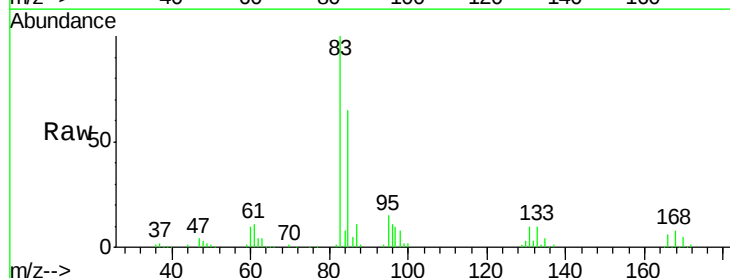
Tgt Ion: 83 Resp: 162989

Ion Ratio Lower Upper

83 100

85 64.5 45.6 84.6

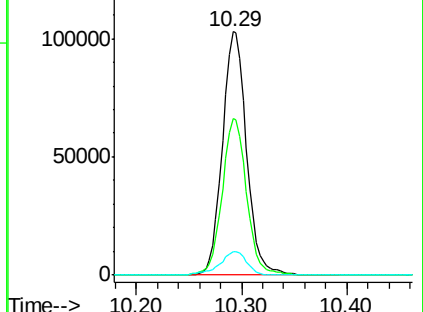
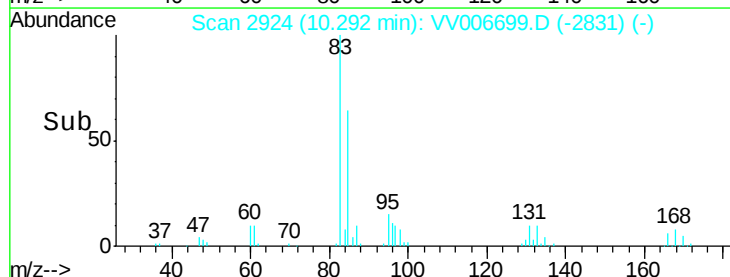
131 9.7 8.0 12.0

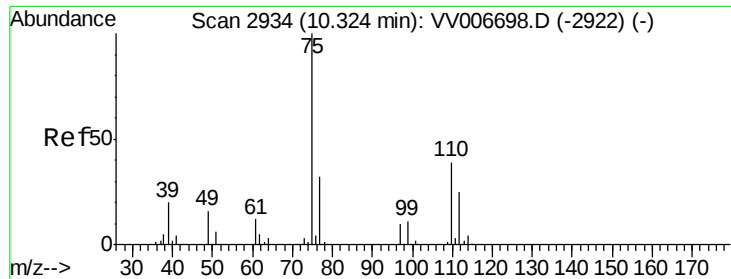


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 9.958 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

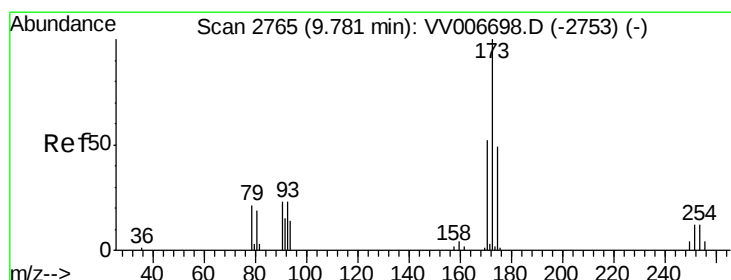
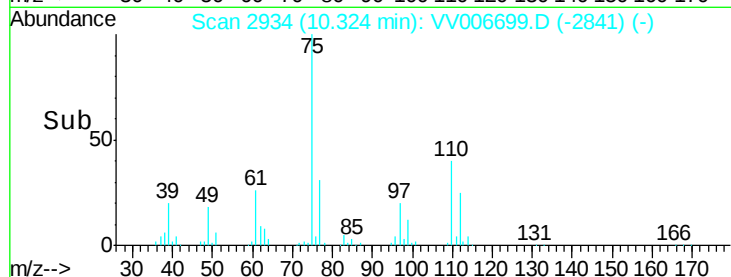
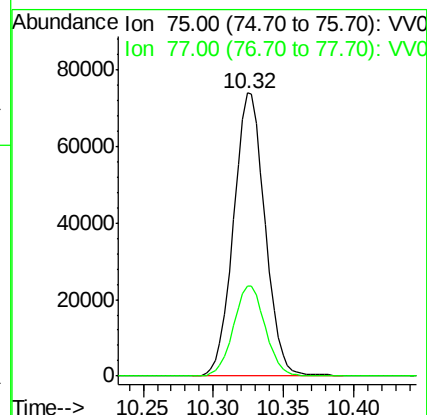
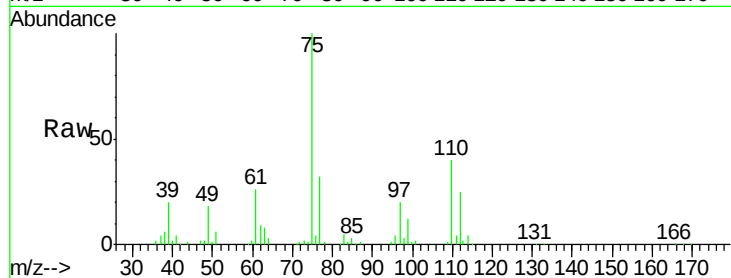
VSTD01078

Tgt Ion: 75 Resp: 115320

Ion Ratio Lower Upper

75 100

77 32.3 26.1 39.1



#61

Bromoform

Concen: 10.063 ug/L

RT: 9.78 min Scan# 2766

Delta R.T. 0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

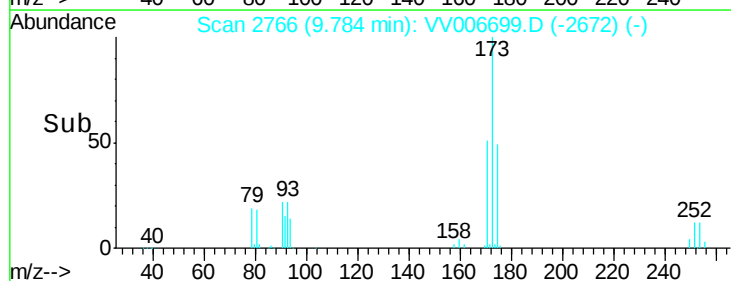
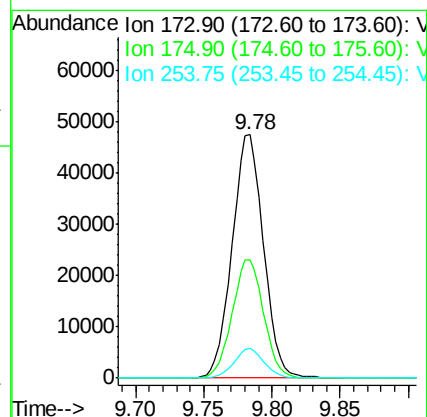
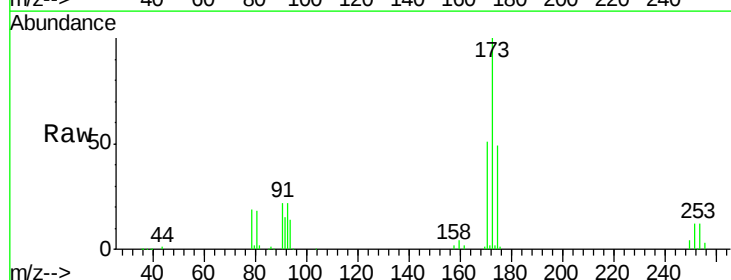
Tgt Ion: 173 Resp: 75894

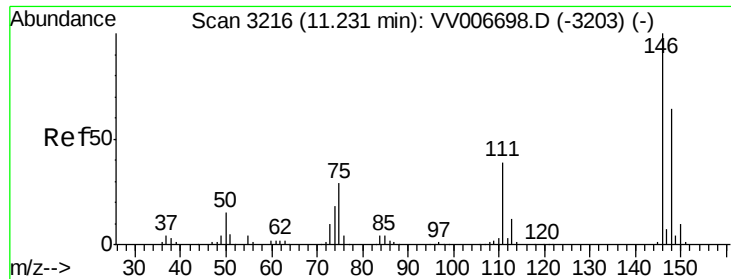
Ion Ratio Lower Upper

173 100

175 48.6 39.1 58.7

254 11.6 9.1 13.7





#62

1,3-Dichlorobenzene

Concen: 10.044 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. 0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

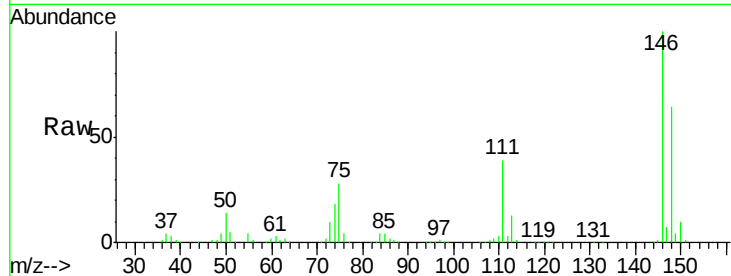
Tgt Ion:146 Resp: 385267

Ion Ratio Lower Upper

146 100

111 39.0 27.5 51.1

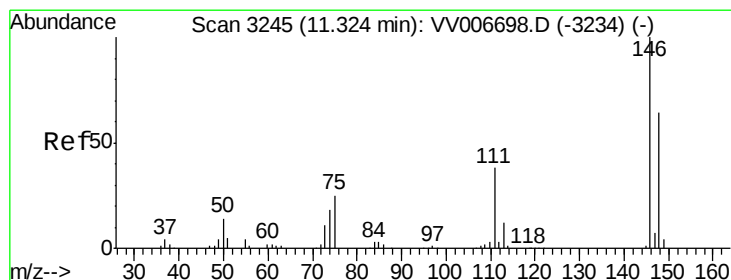
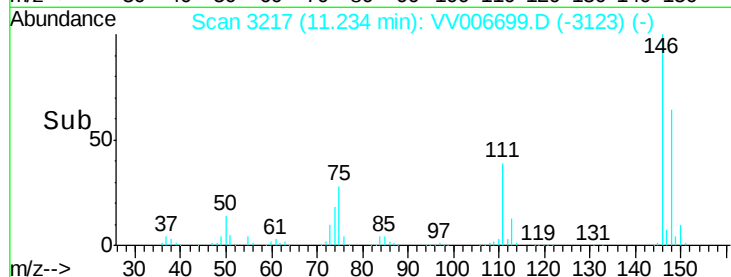
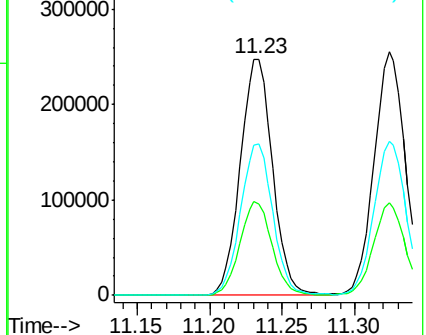
148 64.2 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 9.973 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

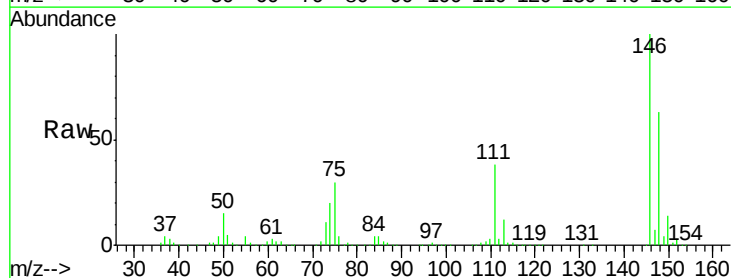
Tgt Ion:146 Resp: 389873

Ion Ratio Lower Upper

146 100

111 37.8 27.0 50.2

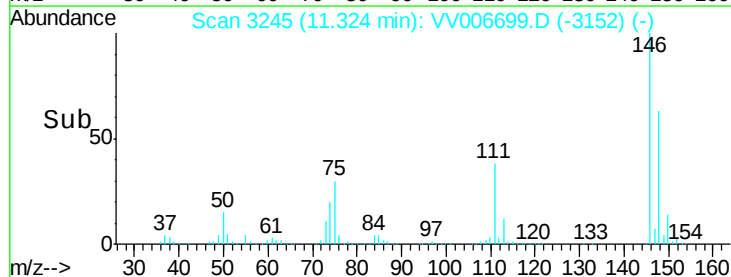
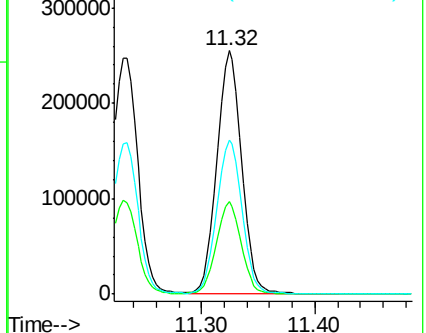
148 63.3 45.1 83.7

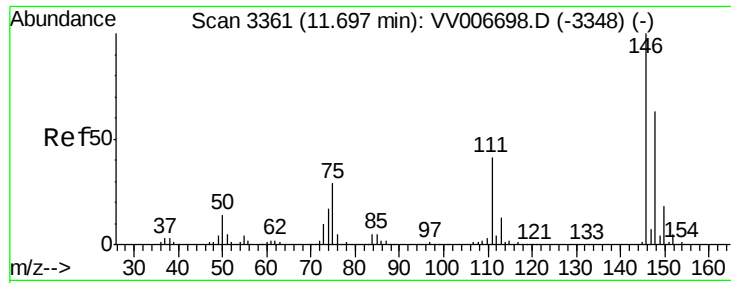


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.977 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

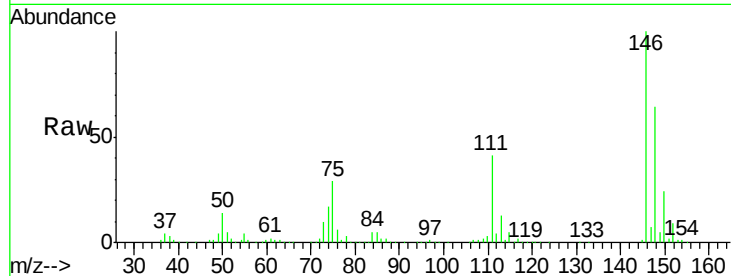
Tgt Ion:146 Resp: 372784

Ion Ratio Lower Upper

146 100

111 40.8 32.9 49.3

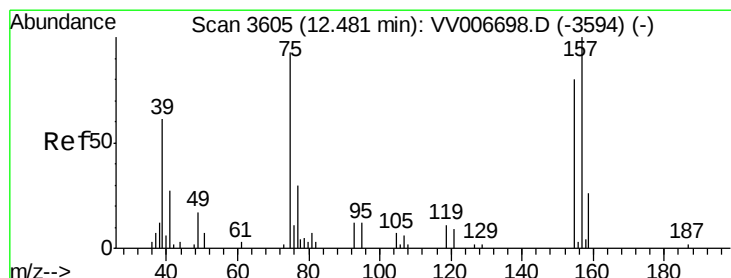
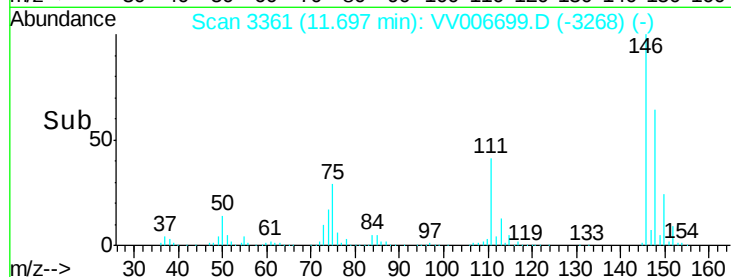
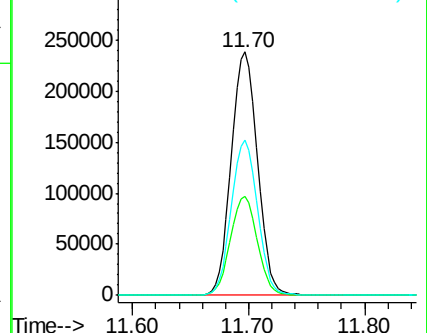
148 63.6 50.2 75.4



Abundance Ion 145.95 (145.65 to 146.65): 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: 10.064 ug/L

RT: 12.48 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

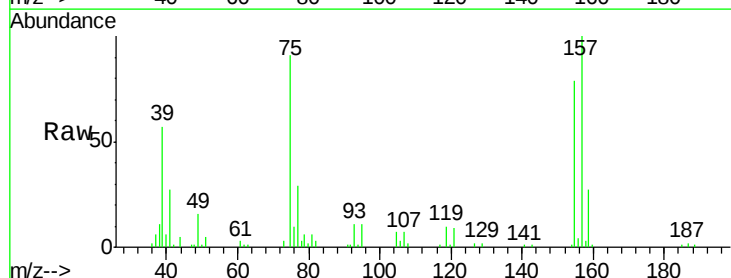
Tgt Ion: 75 Resp: 22505

Ion Ratio Lower Upper

75 100

155 87.6 68.8 103.2

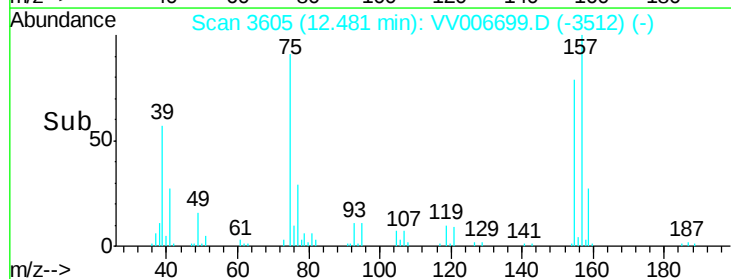
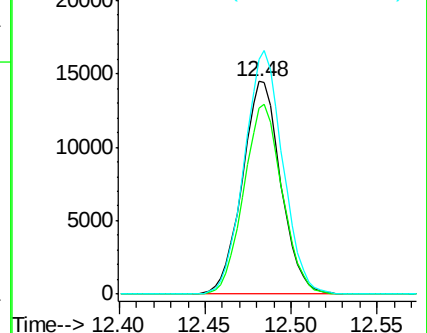
157 110.4 85.6 128.4

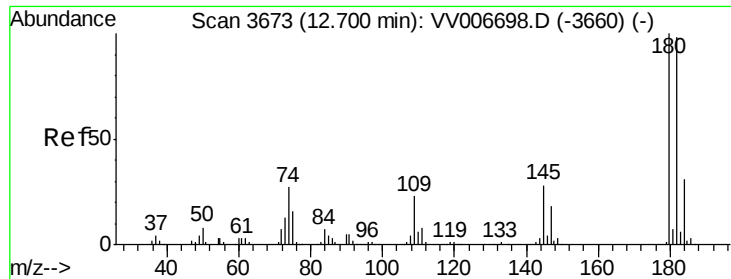


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

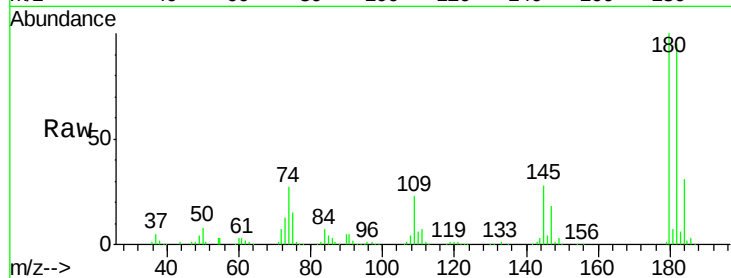




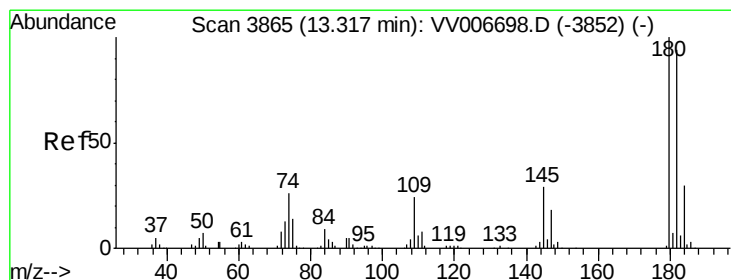
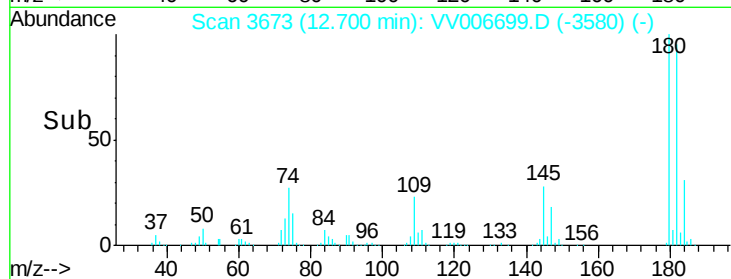
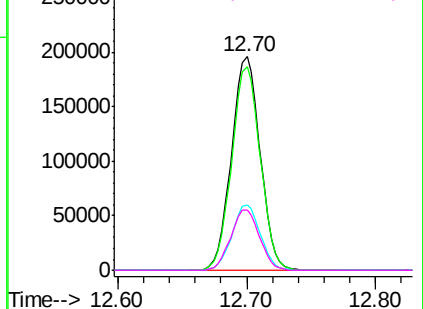
#67  
 1,3,5-Trichlorobenzene  
 Concen: 10.304 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. -0.00 min  
 Lab File: VV006699.D  
 Acq: 23 Jul 2018 14:39

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01078

Tgt Ion:180 Resp: 301772  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 76.8 115.2  
 184 30.3 24.6 37.0  
 145 28.5 22.8 34.2

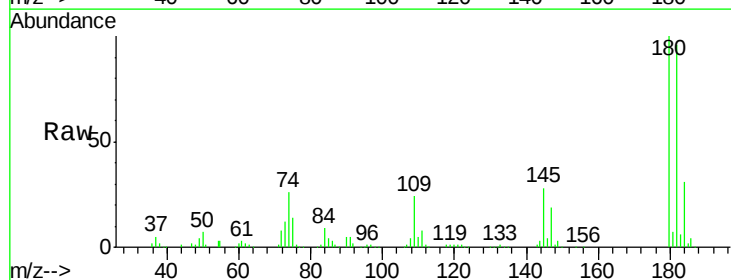


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

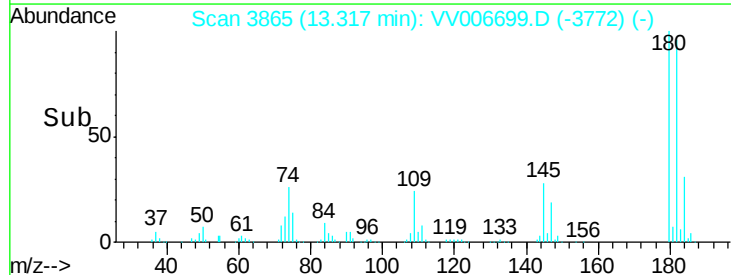
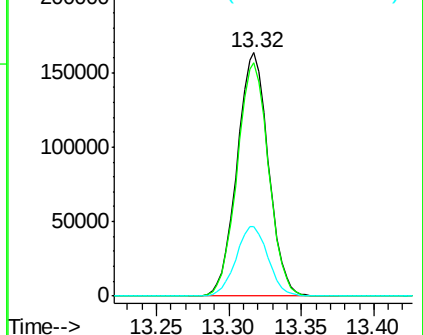


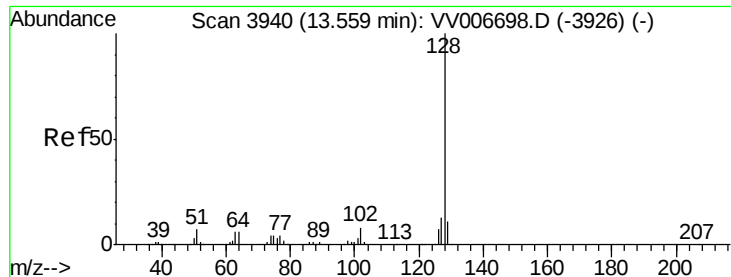
#68  
 1,2,4-trichlorobenzene  
 Concen: 10.560 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. -0.00 min  
 Lab File: VV006699.D  
 Acq: 23 Jul 2018 14:39

Tgt Ion:180 Resp: 245674  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 76.2 114.4  
 145 29.0 23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 11.229 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01078

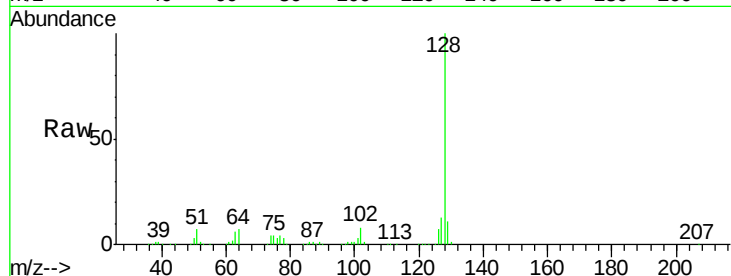
Tgt Ion:128 Resp: 447044

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

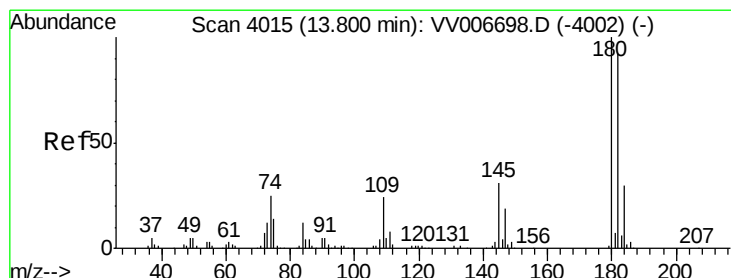
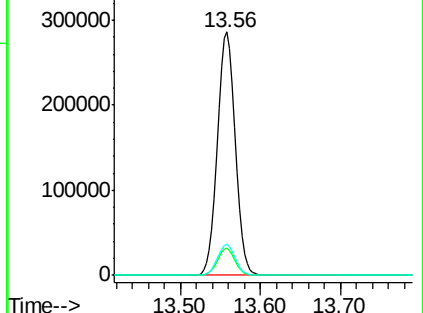
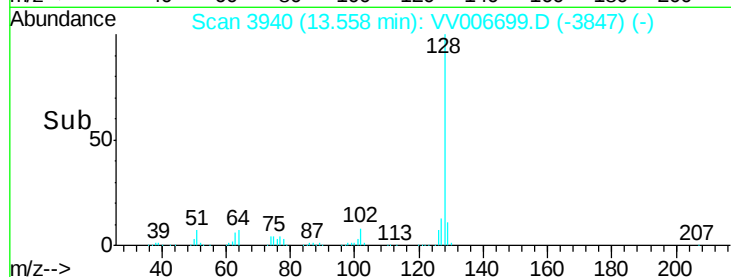
127 12.7 10.3 15.5



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: 10.569 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006699.D

Acq: 23 Jul 2018 14:39

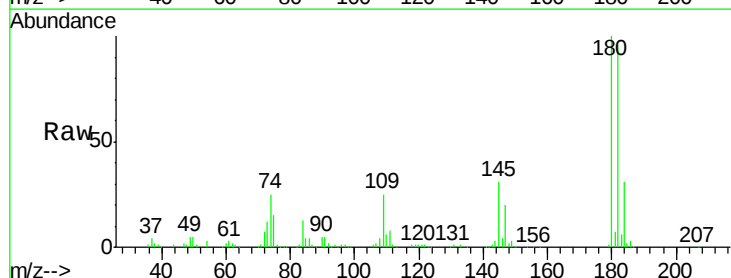
Tgt Ion:180 Resp: 232691

Ion Ratio Lower Upper

180 100

182 95.6 75.3 112.9

145 31.3 24.5 36.7



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

