

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV061518\  
 Data File : VV006271.D  
 Acq On : 15 Jun 2018 09:42  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

Quant Time: Jun 15 23:43:34 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 15 04:11:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 349403   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 314970   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 156954   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 83205    | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.20% |
| 7) Chloroethane-d5             | 1.59   | 69    | 69673    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.20% |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 171563   | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.60% |
| 20) 2-Butanone-d5              | 3.97   | 46    | 176912   | 43.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 87.32% |
| 24) Chloroform-d               | 4.41   | 84    | 151941   | 4.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.20% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 73040    | 4.09     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 81.80% |
| 32) Benzene-d6                 | 5.10   | 84    | 317493   | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 93617    | 4.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 82.20% |
| 41) Toluene-d8                 | 7.36   | 98    | 311335   | 4.31     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.20% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 38674    | 3.80     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 76.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 162306   | 36.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 73.84% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 63229    | 3.84     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 76.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 114101   | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 83.80% |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 112282 | 4.220 ug/L   | 99     |
| 3) Chloromethane               | 1.26 | 50  | 107094 | 4.812 ug/L   | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 124382 | 4.616 ug/L   | 100    |
| 6) Bromomethane                | 1.54 | 94  | 62850  | 4.391 ug/L   | 94     |
| 8) Chloroethane                | 1.60 | 64  | 78171  | 5.190 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 172485 | 4.934 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 108817 | 5.044 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 100098 | 4.992 ug/L   | 99     |
| 13) Acetone                    | 2.22 | 43  | 139922 | 63.726 ug/L  | 94     |
| 14) Carbon disulfide           | 2.32 | 76  | 281872 | 4.196 ug/L   | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 38215  | 5.848 ug/L   | 96     |
| 16) Methylene chloride         | 2.54 | 84  | 111301 | 5.028 ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 252294 | 5.085 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 109856 | 5.022 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 183372 | 4.984 ug/L   | 99     |
| 21) 2-Butanone                 | 4.05 | 43  | 214487 | 53.696 ug/L  | 95     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 114310 | 4.829 ug/L # | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV061518\  
 Data File : VV006271.D  
 Acq On : 15 Jun 2018 09:42  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

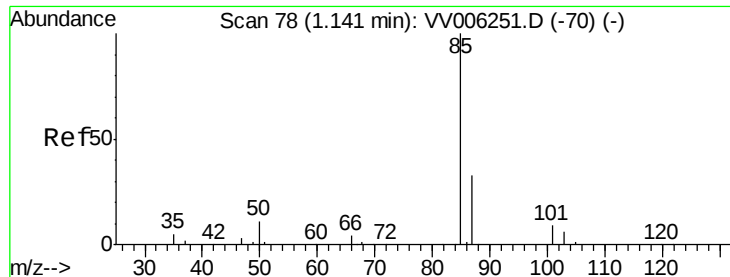
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

Quant Time: Jun 15 23:43:34 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 15 04:11:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 46008    | 4.845  | ug/L  | 100      |
| 25) Chloroform                 | 4.43  | 83   | 185406   | 4.879  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.19  | 62   | 106318   | 4.873  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 160537   | 4.614  | ug/L  | 100      |
| 30) Cyclohexane                | 4.73  | 56   | 159416   | 4.454  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.88  | 117  | 137586   | 4.483  | ug/L  | 99       |
| 33) Benzene                    | 5.15  | 78   | 415954   | 4.790  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 116025   | 4.895  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.18  | 83   | 187756   | 4.608  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.23  | 63   | 98919    | 4.755  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.56  | 83   | 125196   | 4.519  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.08  | 75   | 153070   | 4.514  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 518856   | 48.220 | ug/L  | 99       |
| 42) Toluene                    | 7.43  | 91   | 455299   | 4.750  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 122004   | 4.436  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 72829    | 4.946  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 93144    | 4.910  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.19  | 43   | 372634   | 49.275 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.30  | 129  | 82408    | 4.445  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 66997    | 4.883  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.93  | 112  | 302747   | 4.919  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 509810   | 4.774  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.19  | 106  | 198651   | 4.768  | ug/L  | 99       |
| 54) o-xylene                   | 9.59  | 106  | 194811   | 4.782  | ug/L  | 99       |
| 55) Styrene                    | 9.61  | 104  | 318023   | 4.745  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 520748   | 4.854  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 73565    | 4.362  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 58267    | 4.971  | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 42688    | 4.008  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 235894   | 4.771  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 235646   | 4.818  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 219695   | 4.815  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 11277    | 3.761  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 187576   | 4.929  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 146610   | 4.982  | ug/L  | 98       |
| 69) Naphthalene                | 13.56 | 128  | 225702   | 4.558  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 134090   | 4.960  | ug/L  | 100      |

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





#2

Dichlorodifluoromethane

Concen: 4.220 ug/L

RT: 1.14 min Scan# 78

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampled :

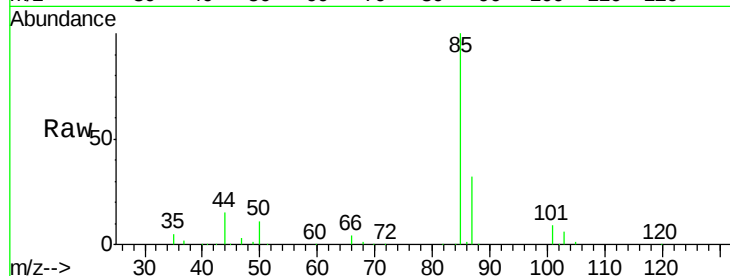
VSTD00565

Tgt Ion: 85 Resp: 112282

Ion Ratio Lower Upper

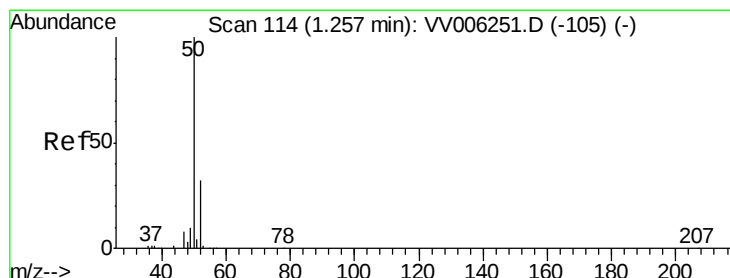
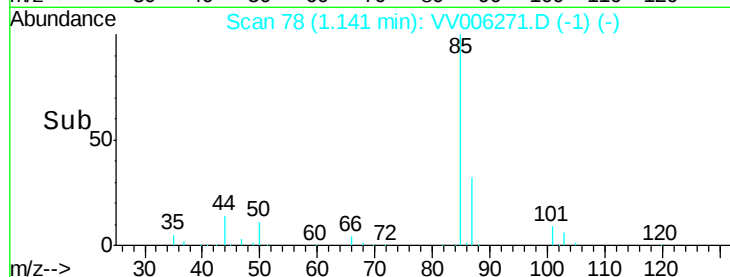
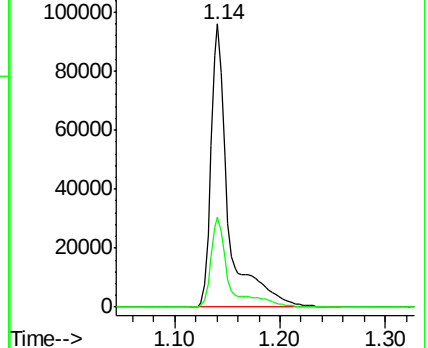
85 100

87 32.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.812 ug/L

RT: 1.26 min Scan# 115

Delta R.T. 0.00 min

Lab File: VV006271.D

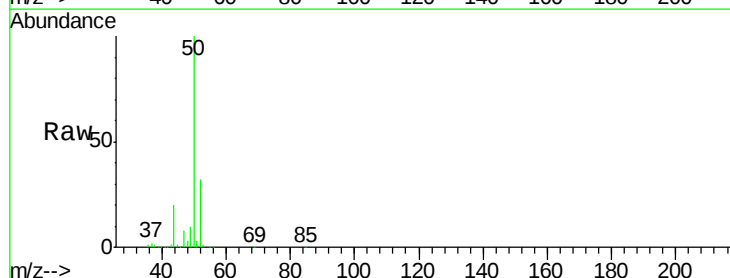
Acq: 15 Jun 2018 09:42

Tgt Ion: 50 Resp: 107094

Ion Ratio Lower Upper

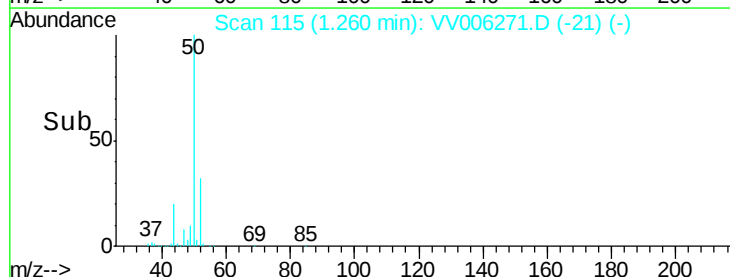
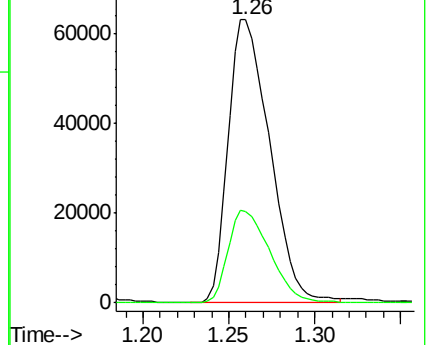
50 100

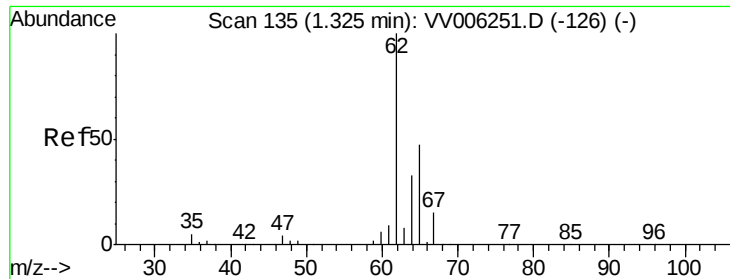
52 32.4 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.616 ug/L

RT: 1.32 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

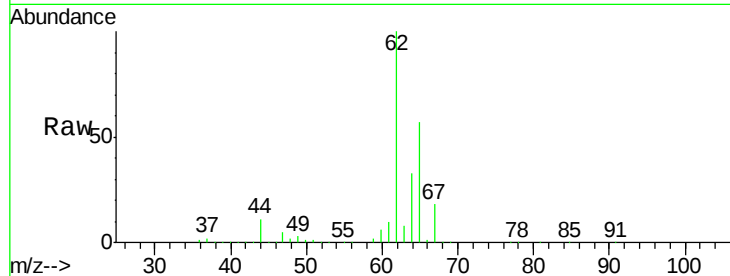
VSTD00565

Tgt Ion: 62 Resp: 124382

Ion Ratio Lower Upper

62 100

64 32.8 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

120000

100000

80000

60000

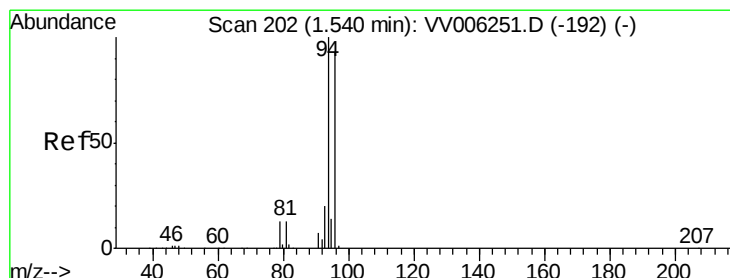
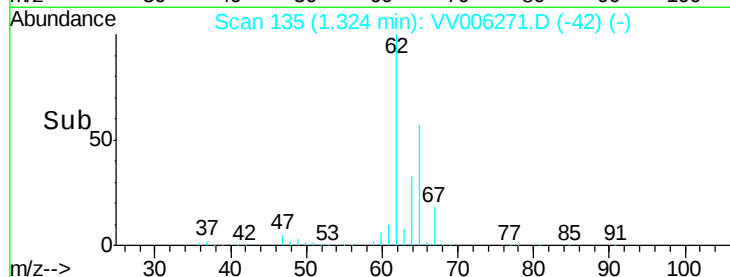
40000

20000

0

Time-->

1.30 1.40



#6

Bromomethane

Concen: 4.391 ug/L

RT: 1.54 min Scan# 202

Delta R.T. -0.00 min

Lab File: VV006271.D

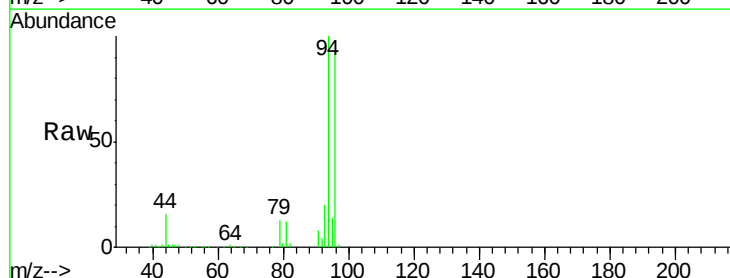
Acq: 15 Jun 2018 09:42

Tgt Ion: 94 Resp: 62850

Ion Ratio Lower Upper

94 100

96 92.1 68.9 127.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

60000

50000

40000

30000

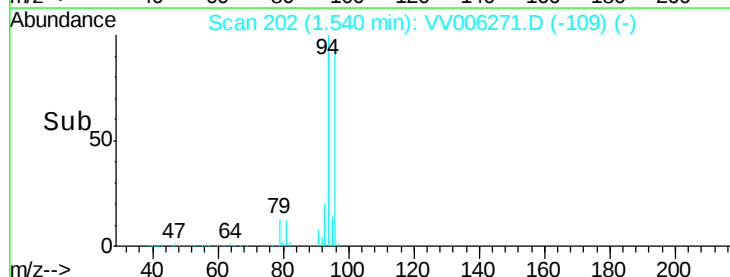
20000

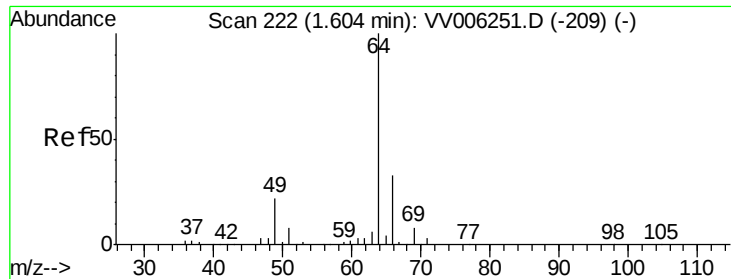
10000

0

Time-->

1.50 1.55 1.60





#8

Chloroethane

Concen: 5.190 ug/L

RT: 1.60 min Scan# 222

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

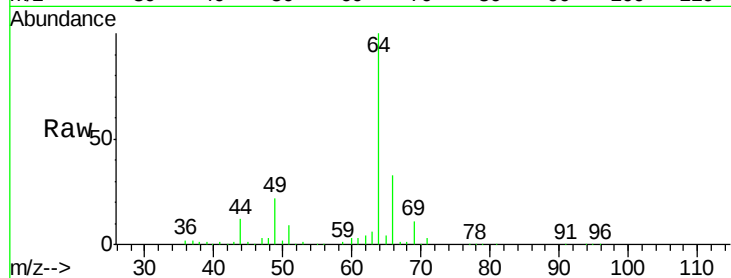
VSTD00565

Tgt Ion: 64 Resp: 78171

Ion Ratio Lower Upper

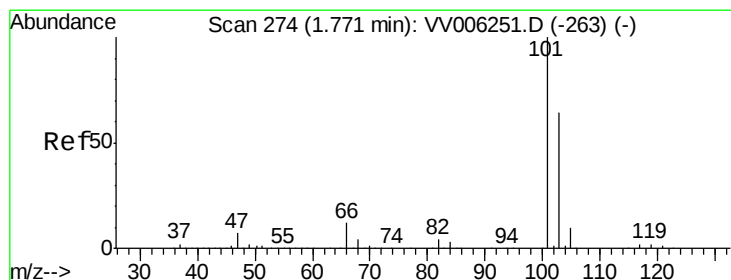
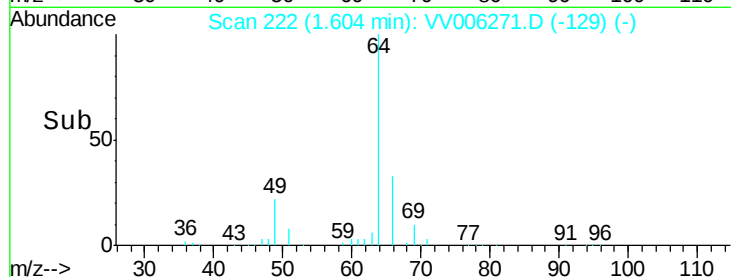
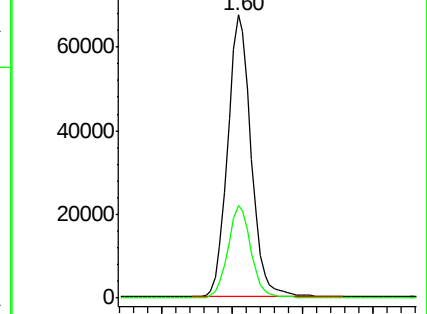
64 100

66 32.6 22.5 41.7



Abundance Ion 64.10 (63.80 to 64.80): VV006271.D (-129) (-)

Ion 66.05 (65.75 to 66.75): VV006271.D (-129) (-)



#9

Trichlorofluoromethane

Concen: 4.934 ug/L

RT: 1.77 min Scan# 275

Delta R.T. 0.00 min

Lab File: VV006271.D

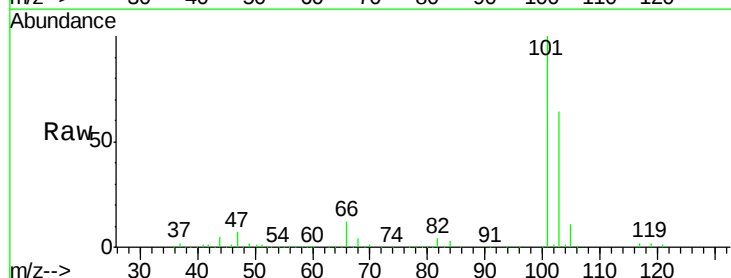
Acq: 15 Jun 2018 09:42

Tgt Ion: 101 Resp: 172485

Ion Ratio Lower Upper

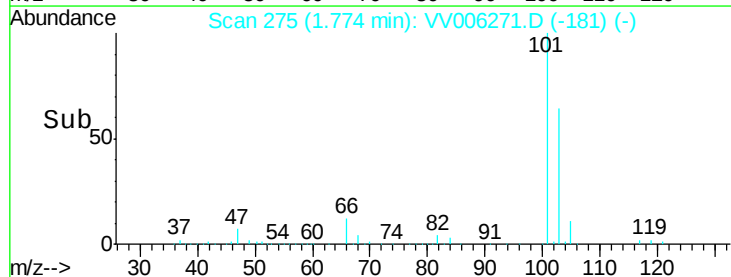
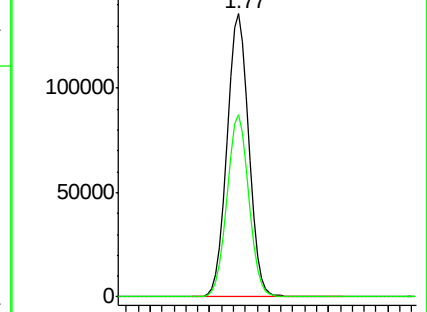
101 100

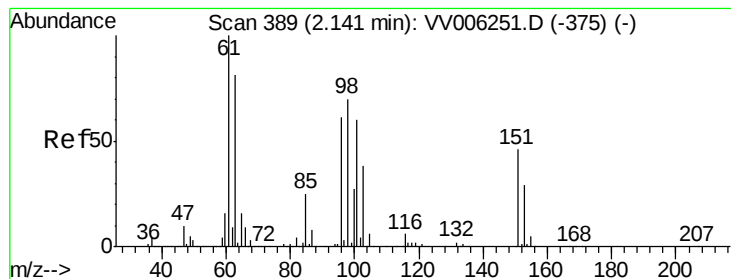
103 64.4 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VV006271.D (-181) (-)

Ion 103.00 (102.70 to 103.70): VV006271.D (-181) (-)





#10

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

Concen: 5.044 ug/L

RT: 2.14 min Scan# 390

Delta R.T. 0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

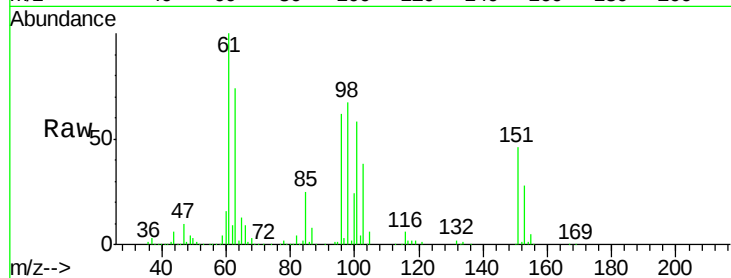
Tgt Ion: 101 Resp: 108817

Ion Ratio Lower Upper

101 100

85 42.1 32.6 49.0

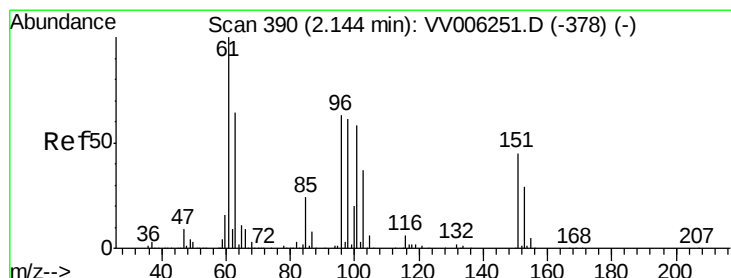
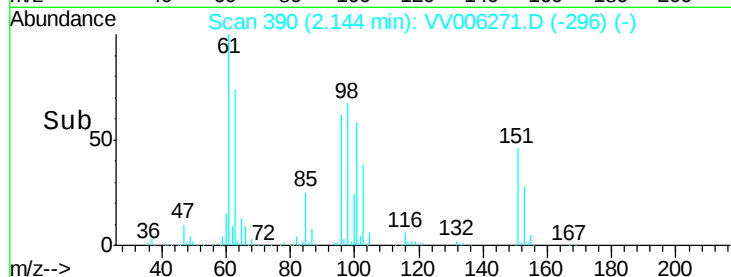
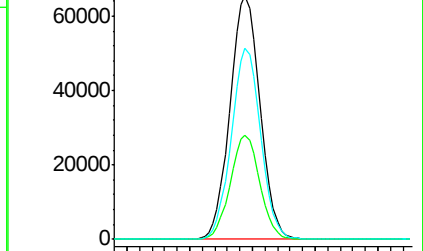
151 76.8 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): VV006271.D (-296) (-)

Ion 85.00 (84.70 to 85.70): VV006271.D (-296) (-)

Ion 151.00 (150.70 to 151.70): VV006271.D (-296) (-)



#12

1,1-Dichloroethene

Concen: 4.992 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

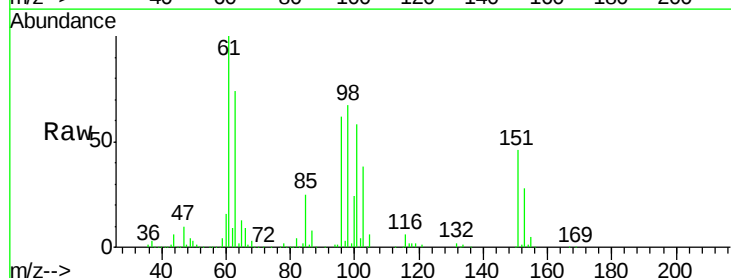
Tgt Ion: 96 Resp: 100098

Ion Ratio Lower Upper

96 100

61 162.2 114.2 212.2

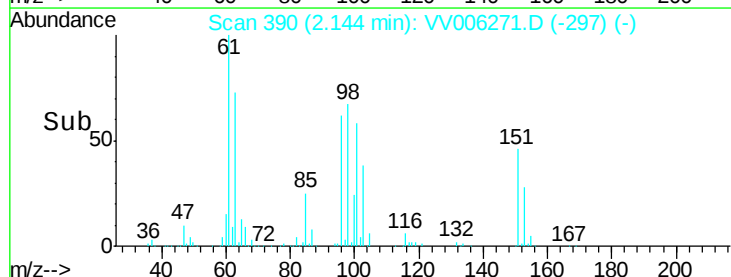
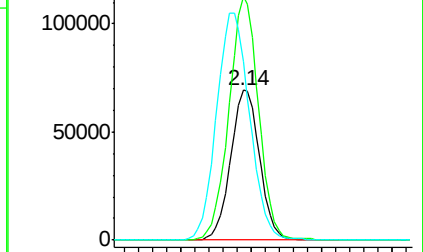
63 119.2 85.0 157.8

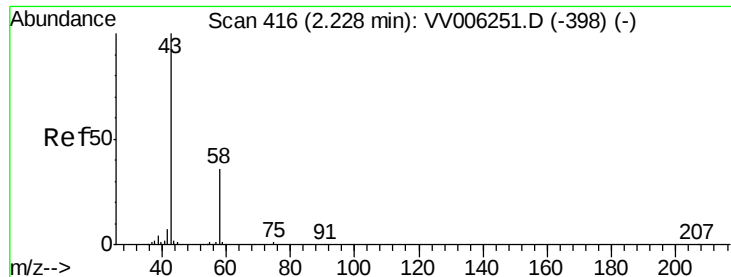


Abundance Ion 96.00 (95.70 to 96.70): VV006271.D (-297) (-)

Ion 61.05 (60.75 to 61.75): VV006271.D (-297) (-)

Ion 63.00 (62.70 to 63.70): VV006271.D (-297) (-)





#13

Acetone

Concen: 63.726 ug/L

RT: 2.22 min Scan# 414

Delta R.T. -0.01 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

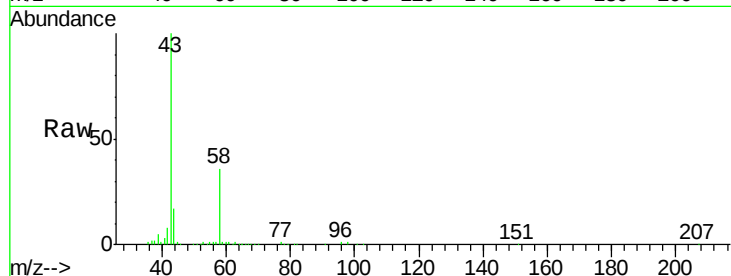
VSTD00565

Tgt Ion: 43 Resp: 139922

Ion Ratio Lower Upper

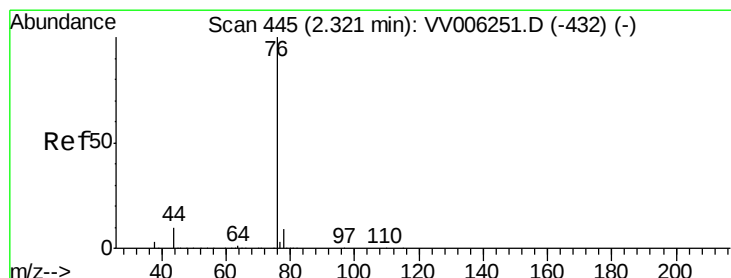
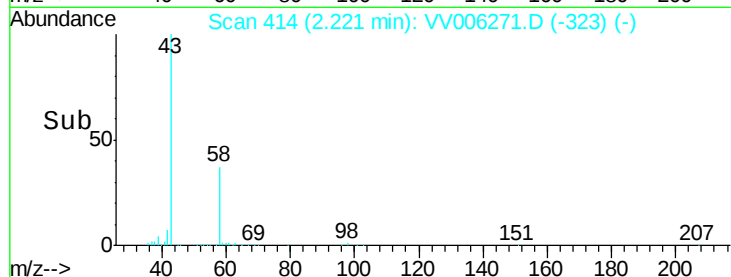
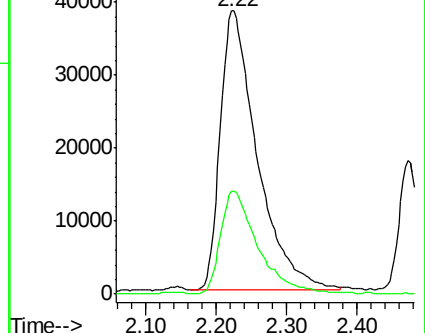
43 100

58 37.3 0.0 67.4



Abundance Ion 43.05 (42.75 to 43.75): VV006271.D (-323) (-)

Ion 58.05 (57.75 to 58.75): VV006271.D (-323) (-)



#14

Carbon disulfide

Concen: 4.196 ug/L

RT: 2.32 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV006271.D

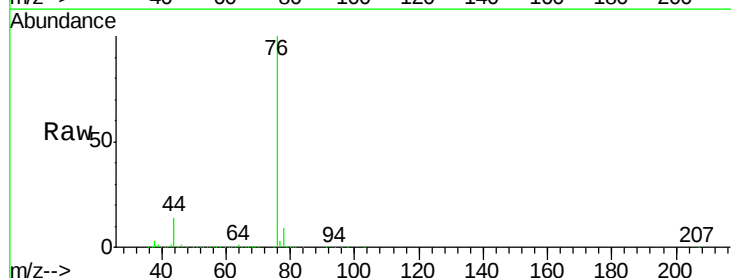
Acq: 15 Jun 2018 09:42

Tgt Ion: 76 Resp: 281872

Ion Ratio Lower Upper

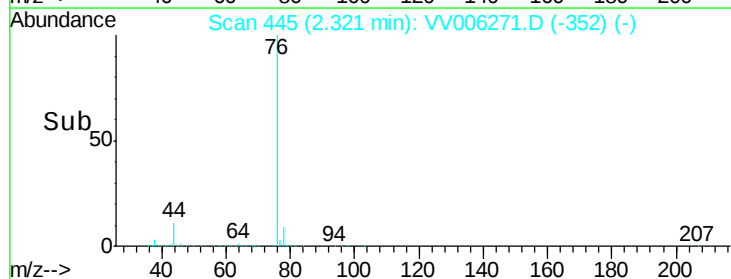
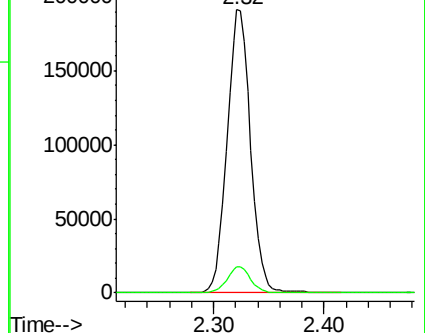
76 100

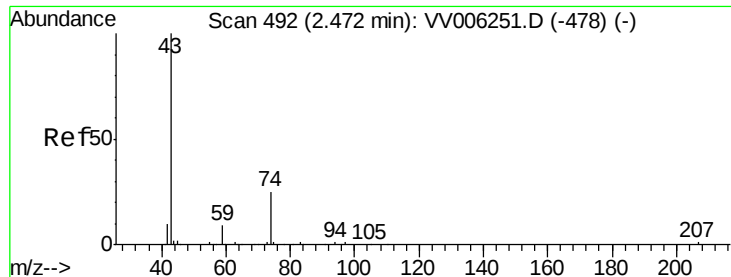
78 9.2 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV006271.D (-352) (-)

Ion 78.00 (77.70 to 78.70): VV006271.D (-352) (-)

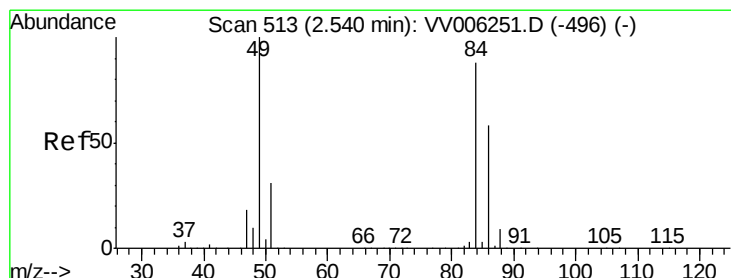
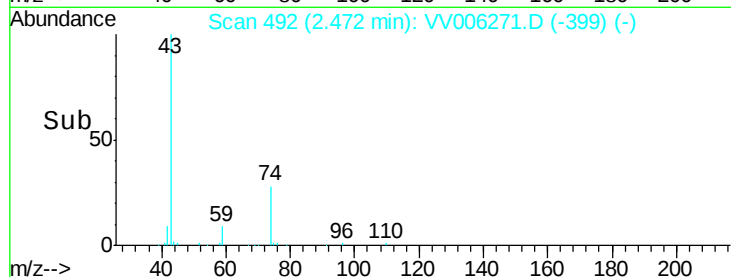
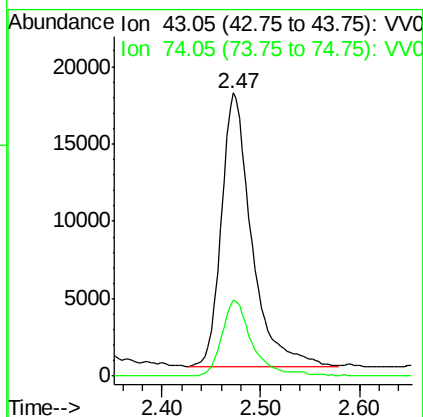
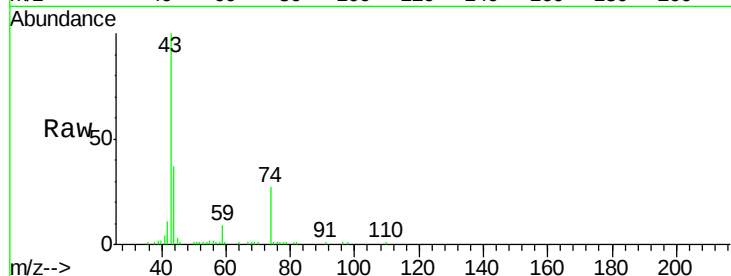




#15  
Methyl Acetate  
Concen: 5.848 ug/L  
RT: 2.47 min Scan# 492  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

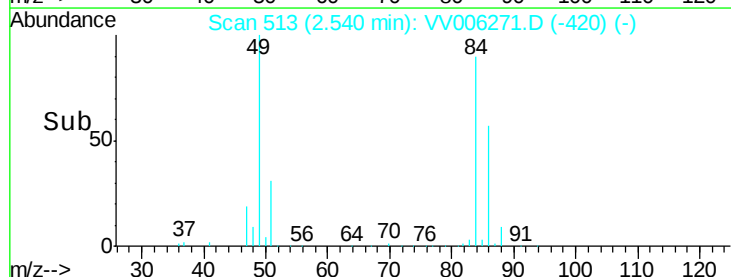
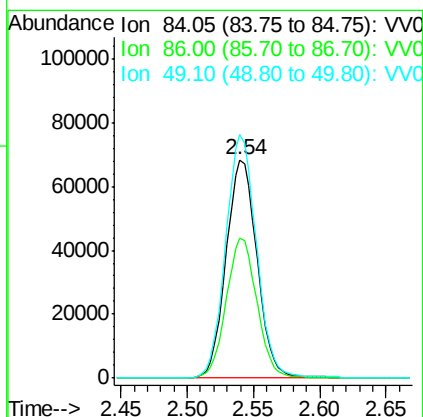
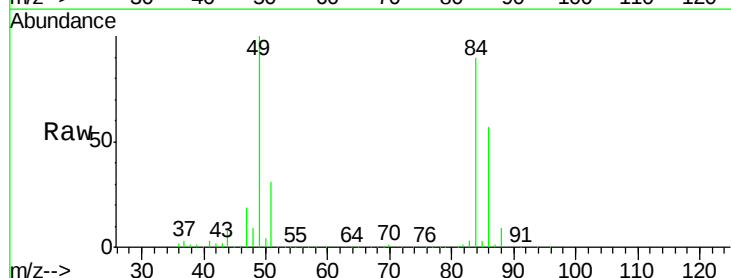
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00565

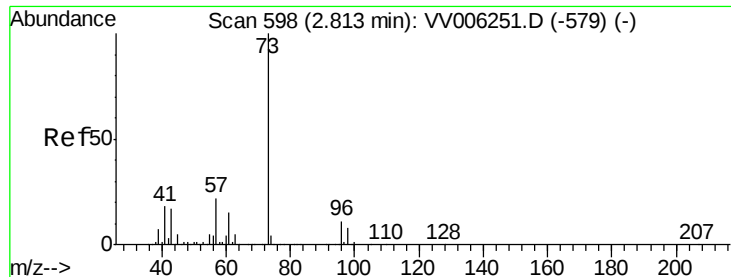
Tgt Ion: 43 Resp: 38215  
Ion Ratio Lower Upper  
43 100  
74 26.9 23.4 35.0



#16  
Methylene chloride  
Concen: 5.028 ug/L  
RT: 2.54 min Scan# 513  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Tgt Ion: 84 Resp: 111301  
Ion Ratio Lower Upper  
84 100  
86 64.1 44.2 82.0  
49 111.6 78.8 146.4

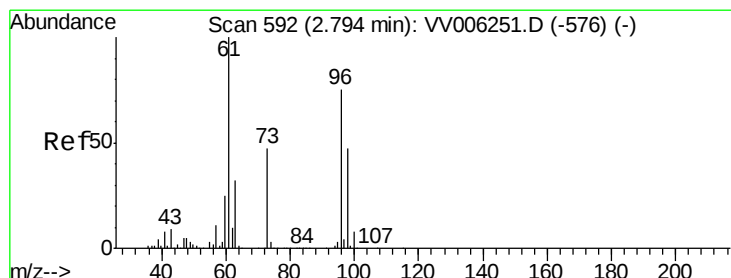
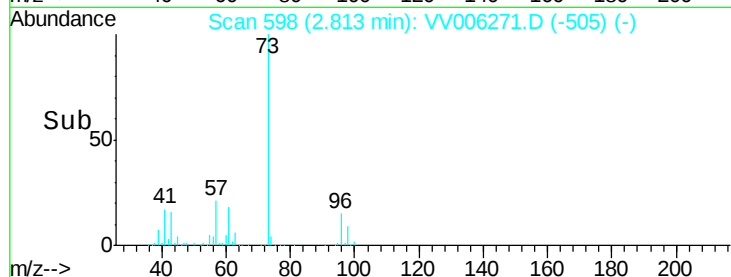
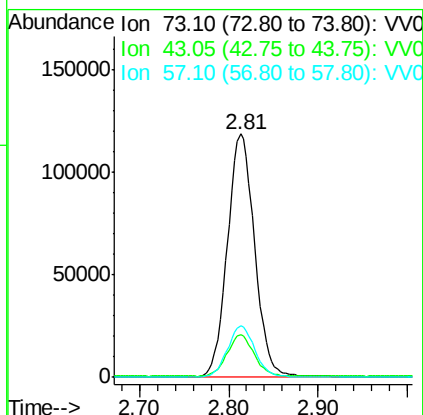
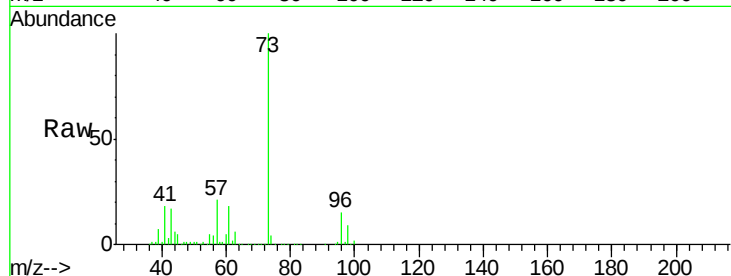




#17  
Methyl tert-butyl Ether  
Concen: 5.085 ug/L  
RT: 2.81 min Scan# 598  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

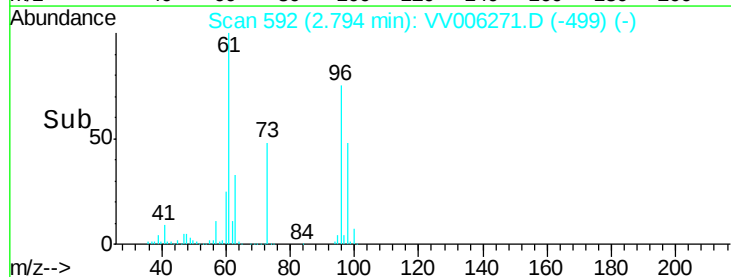
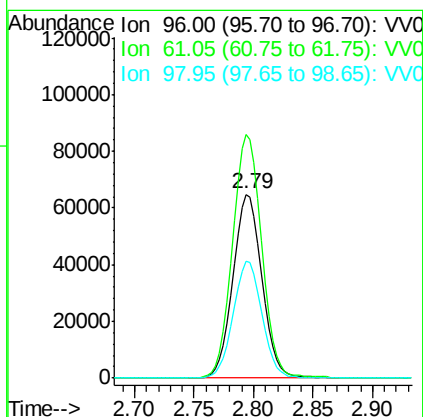
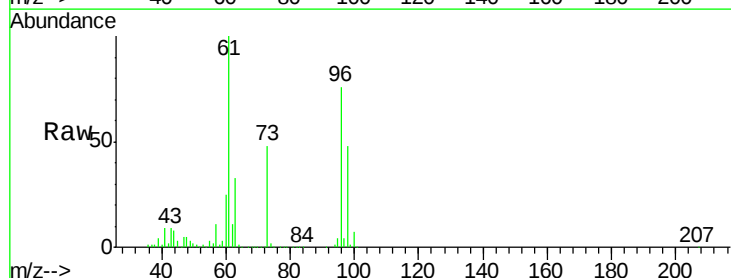
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00565

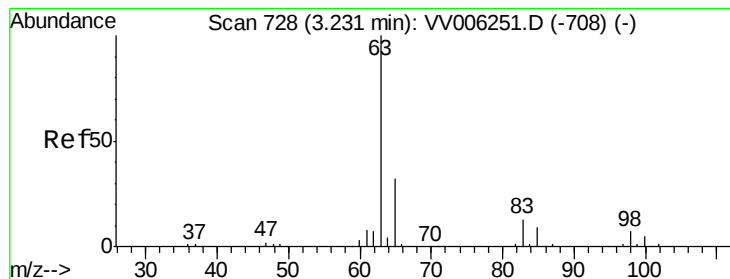
Tgt Ion: 73 Resp: 252294  
Ion Ratio Lower Upper  
73 100  
43 16.8 14.2 21.4  
57 21.0 16.8 25.2



#18  
trans-1,2-Dichloroethene  
Concen: 5.022 ug/L  
RT: 2.79 min Scan# 592  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Tgt Ion: 96 Resp: 109856  
Ion Ratio Lower Upper  
96 100  
61 132.4 96.3 178.9  
98 63.4 45.4 84.2





#19

1,1-Dichloroethane

Concen: 4.984 ug/L

RT: 3.23 min Scan# 728

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

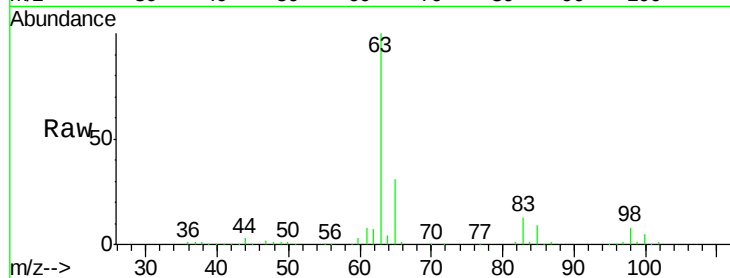
Tgt Ion: 63 Resp: 183372

Ion Ratio Lower Upper

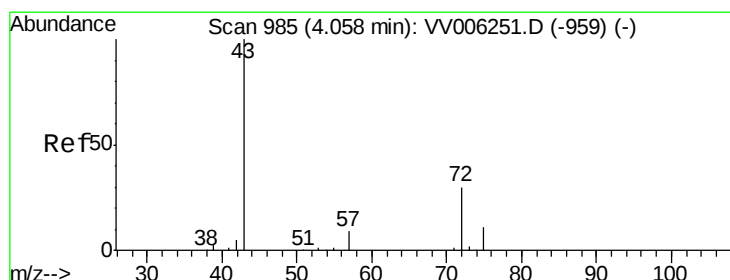
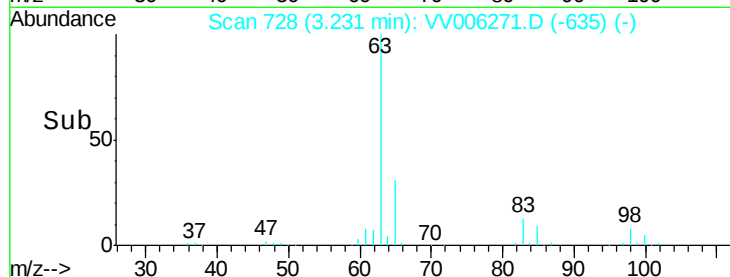
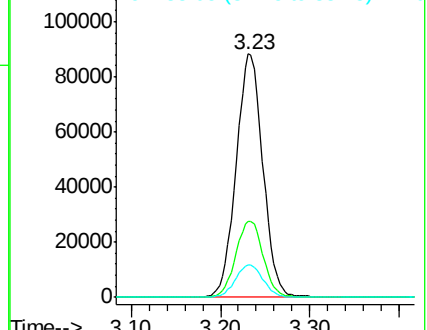
63 100

65 31.4 22.3 41.3

83 13.5 10.0 18.6



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 65.10 (64.80 to 65.80): VV0  
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 53.696 ug/L

RT: 4.05 min Scan# 984

Delta R.T. -0.00 min

Lab File: VV006271.D

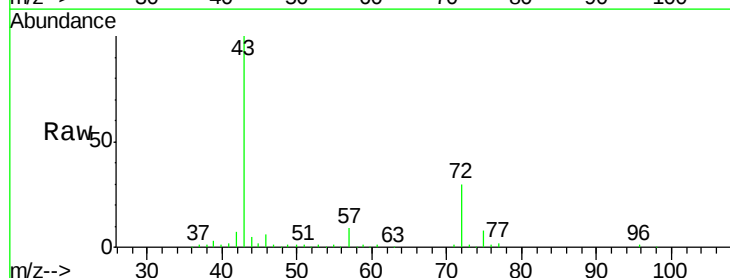
Acq: 15 Jun 2018 09:42

Tgt Ion: 43 Resp: 214487

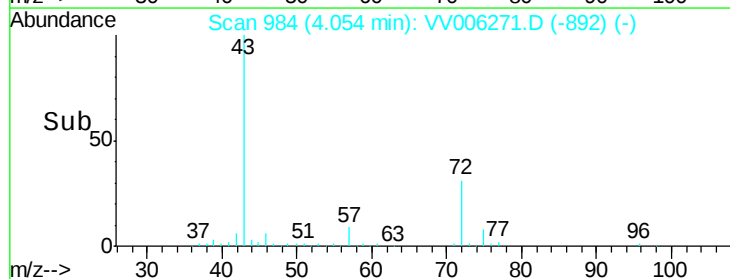
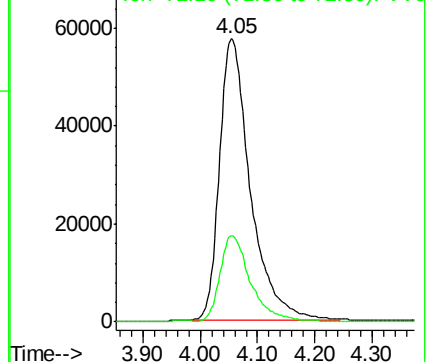
Ion Ratio Lower Upper

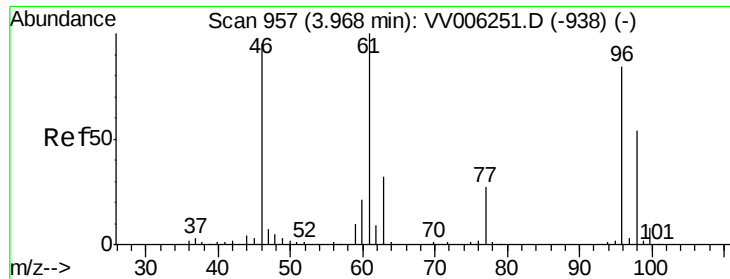
43 100

72 30.2 13.8 41.3



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 72.10 (71.80 to 72.80): VV0



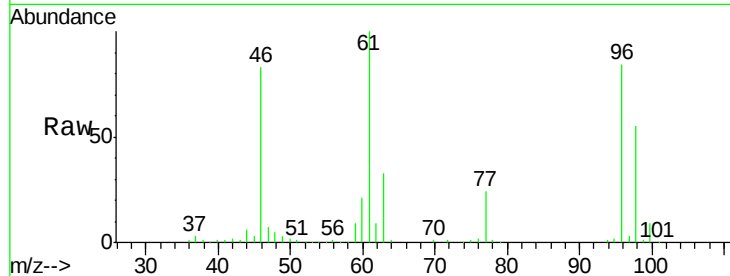


#22

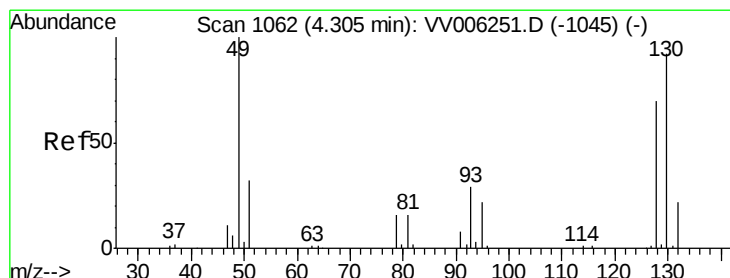
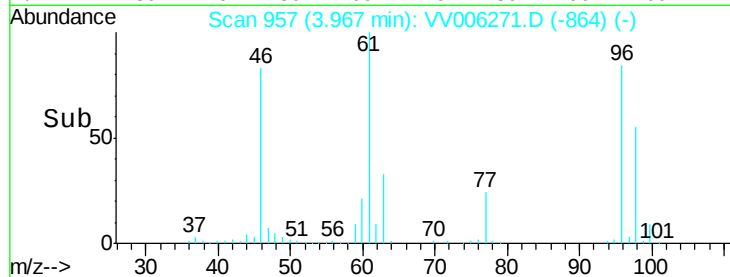
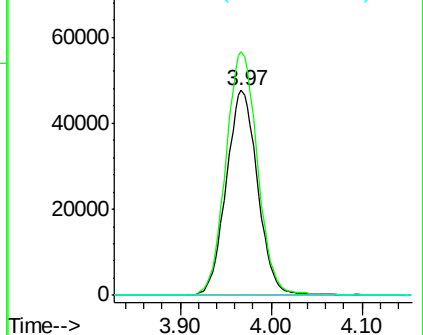
cis-1,2-Dichloroethene  
 Concen: 4.829 ug/L  
 RT: 3.97 min Scan# 957  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

Tgt Ion: 96 Resp: 114310  
 Ion Ratio Lower Upper  
 96 100  
 61 119.0 84.1 156.3  
 68 0.0 0.3 0.5#



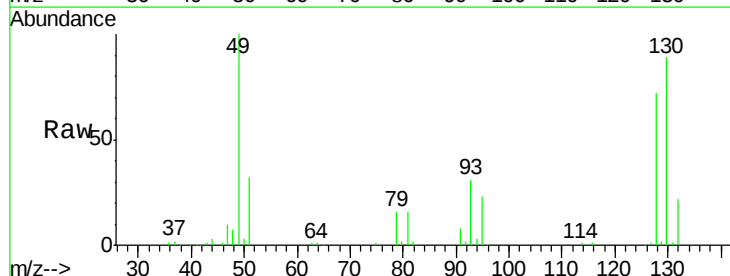
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 68.15 (67.85 to 68.85): VV0



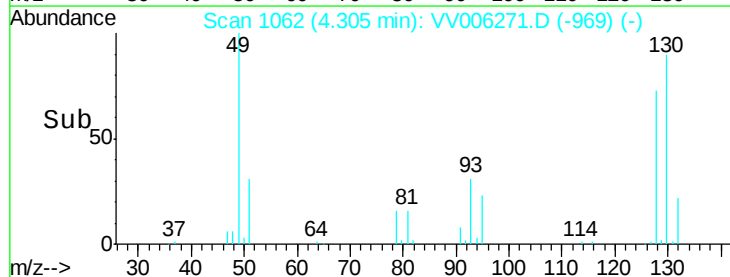
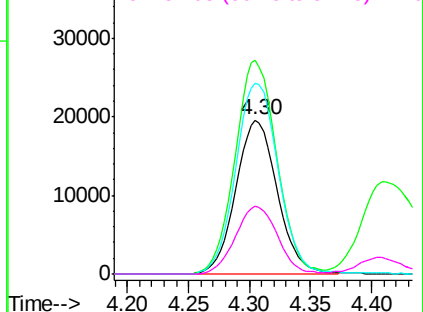
#23

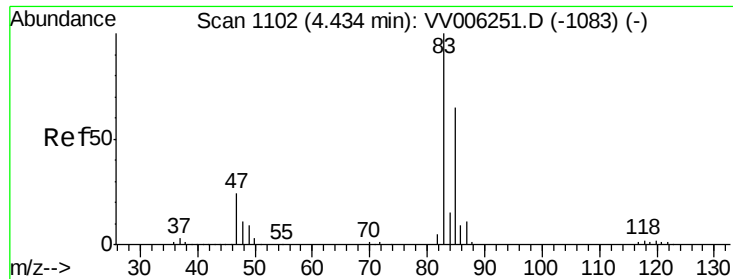
Bromochloromethane  
 Concen: 4.845 ug/L  
 RT: 4.30 min Scan# 1062  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Tgt Ion: 128 Resp: 46008  
 Ion Ratio Lower Upper  
 128 100  
 49 138.7 97.1 180.3  
 130 123.7 86.6 160.8  
 51 43.9 35.9 53.9



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VV0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VV0

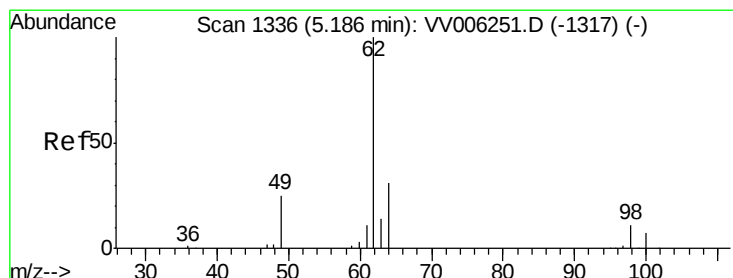
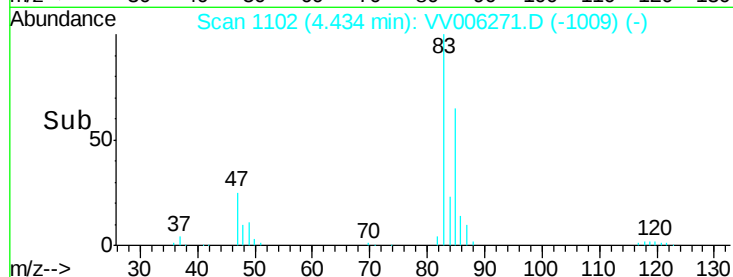
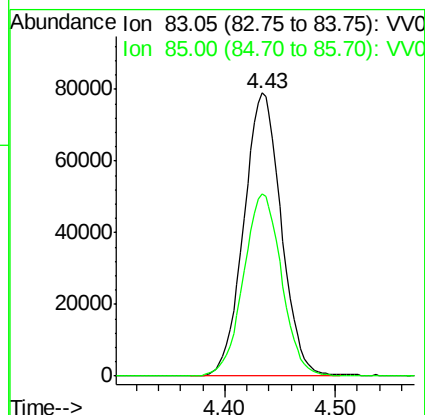
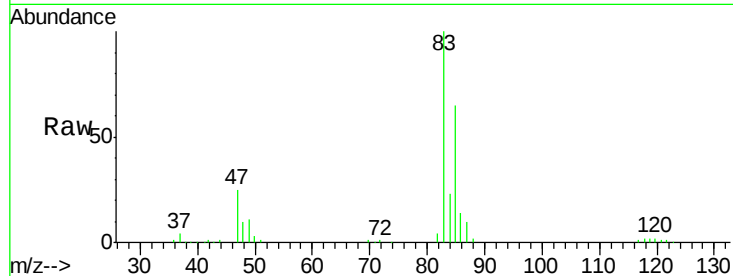




#25  
Chloroform  
Concen: 4.879 ug/L  
RT: 4.43 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

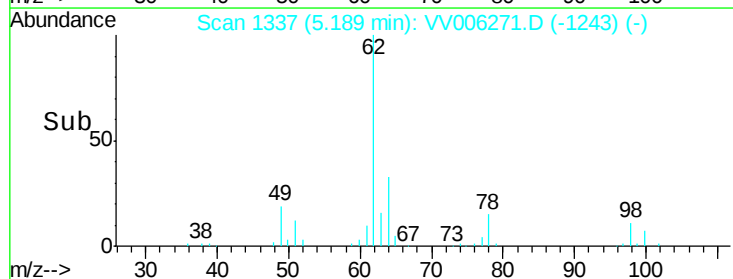
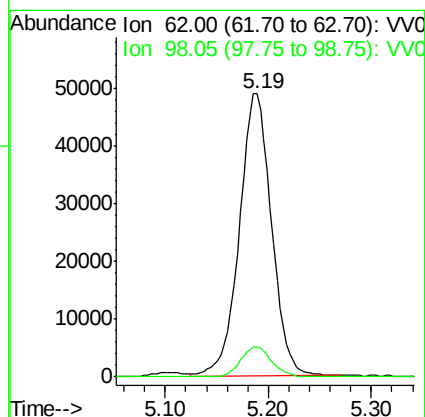
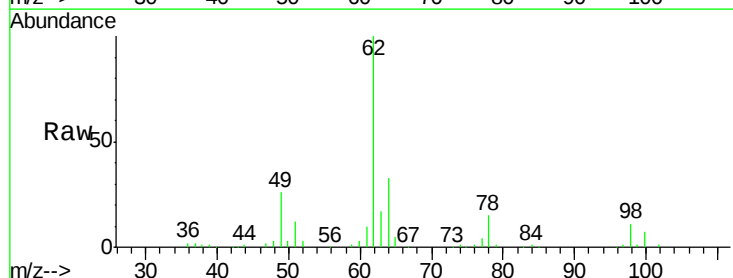
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00565

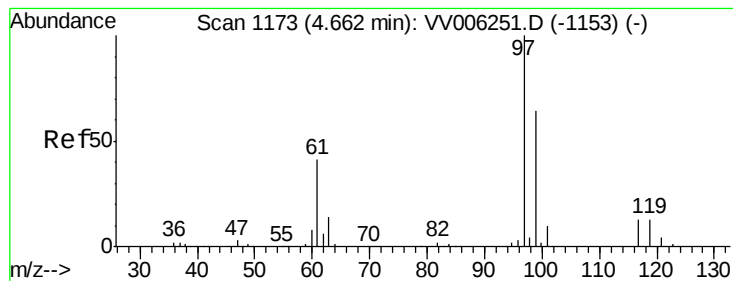
Tgt Ion: 83 Resp: 185406  
Ion Ratio Lower Upper  
83 100  
85 64.6 46.2 85.8



#27  
1,2-Dichloroethane  
Concen: 4.873 ug/L  
RT: 5.19 min Scan# 1337  
Delta R.T. 0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Tgt Ion: 62 Resp: 106318  
Ion Ratio Lower Upper  
62 100  
98 10.6 8.6 12.8





#29

1,1,1-Trichloroethane

Concen: 4.614 ug/L

RT: 4.66 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

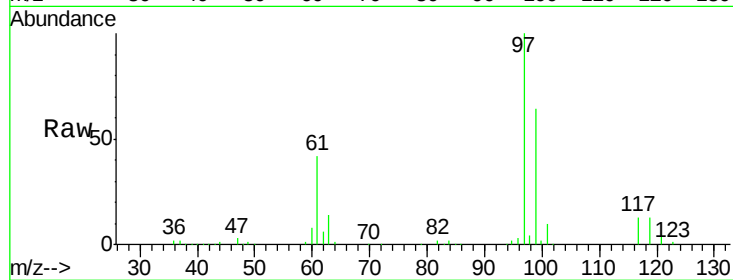
Tgt Ion: 97 Resp: 160537

Ion Ratio Lower Upper

97 100

99 64.5 51.5 77.3

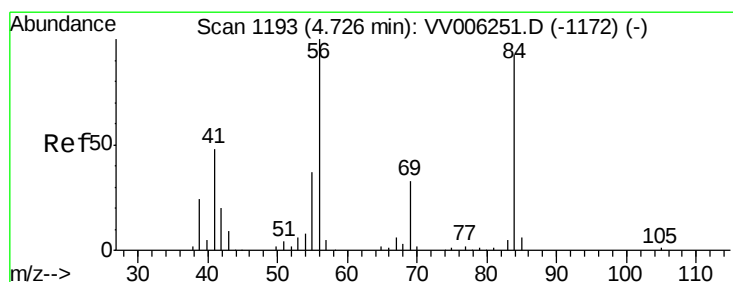
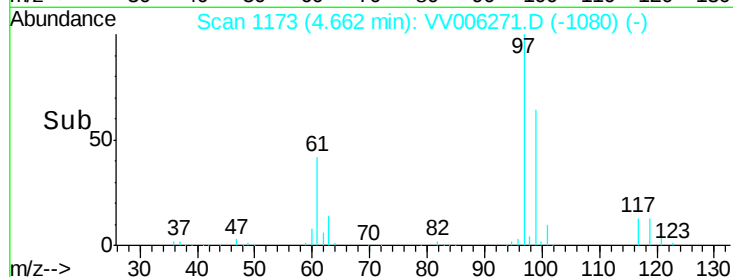
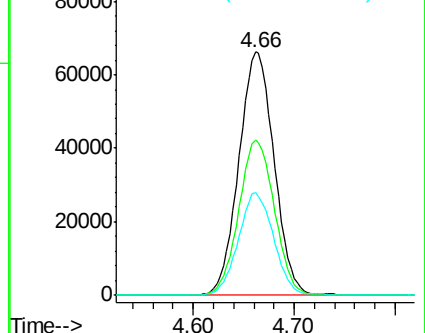
61 42.5 33.7 50.5



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.454 ug/L

RT: 4.73 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

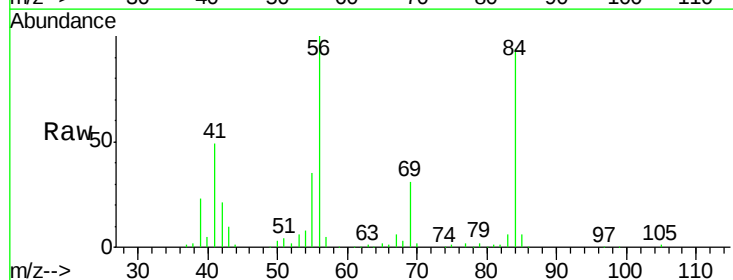
Tgt Ion: 56 Resp: 159416

Ion Ratio Lower Upper

56 100

69 32.3 26.4 39.6

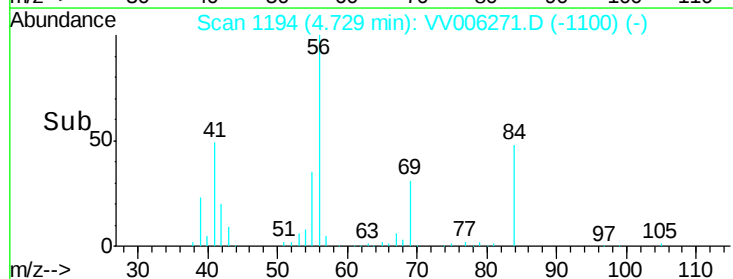
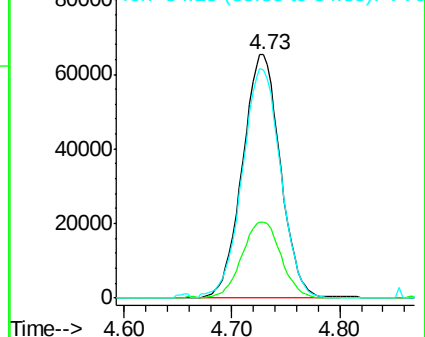
84 95.7 78.9 118.3

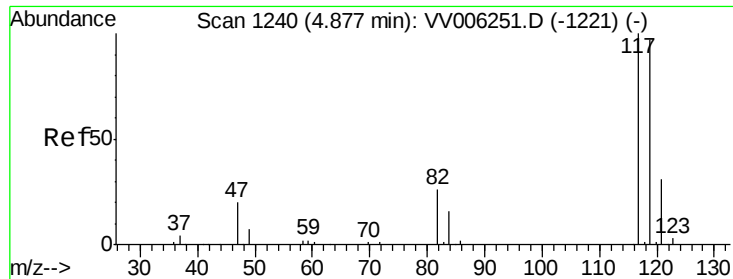


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.483 ug/L

RT: 4.88 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

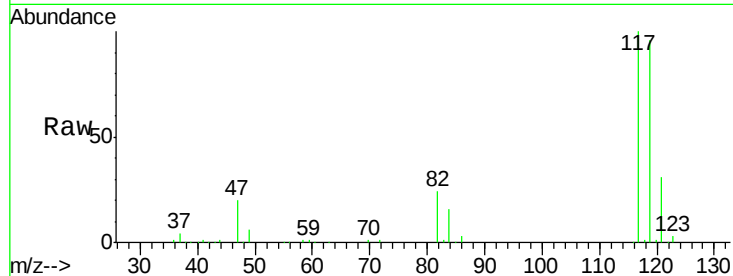
VSTD00565

Tgt Ion:117 Resp: 137586

Ion Ratio Lower Upper

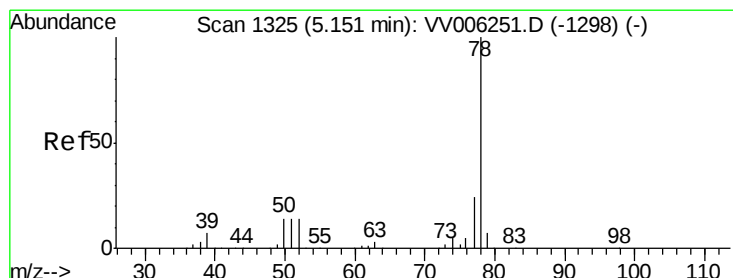
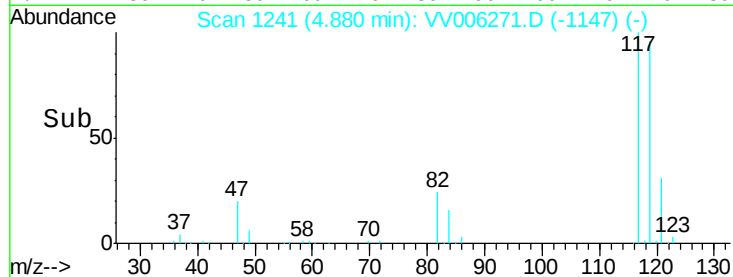
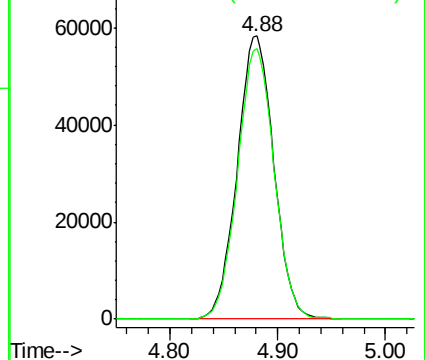
117 100

119 95.9 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.790 ug/L

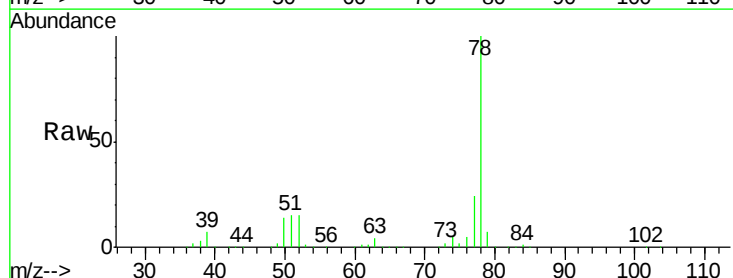
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

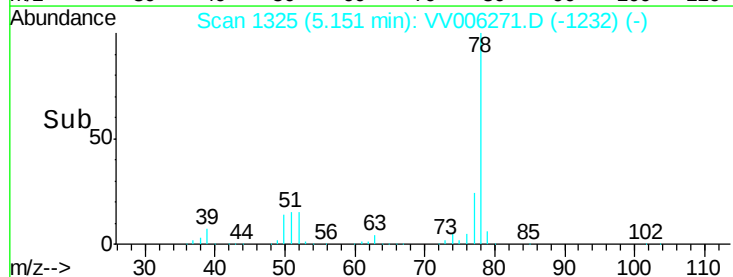
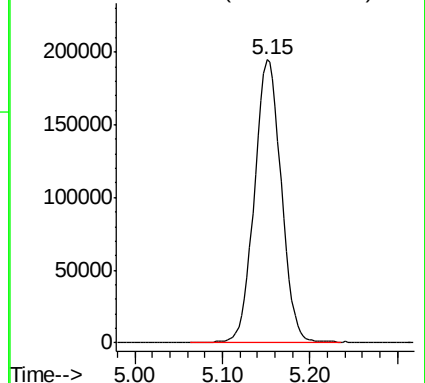
Lab File: VV006271.D

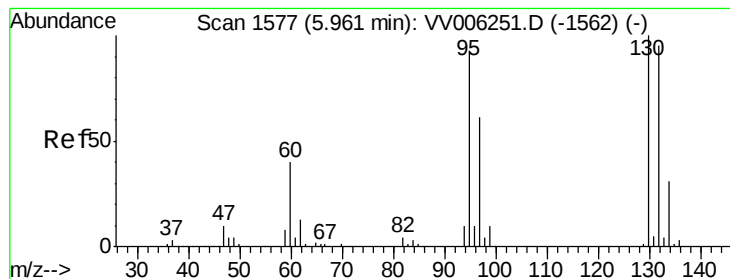
Acq: 15 Jun 2018 09:42

Tgt Ion: 78 Resp: 415954



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.895 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

Tgt Ion: 95 Resp: 116025

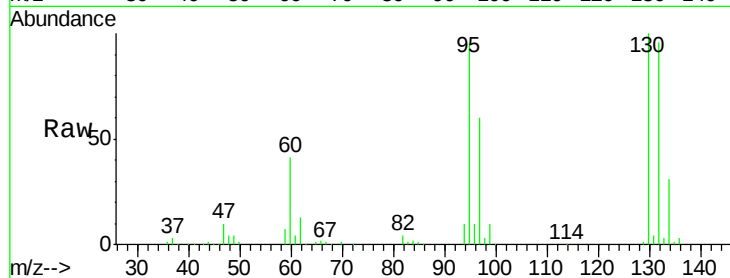
Ion Ratio Lower Upper

95 100

97 63.5 45.1 83.9

132 101.5 69.0 128.1

130 105.3 72.8 135.2

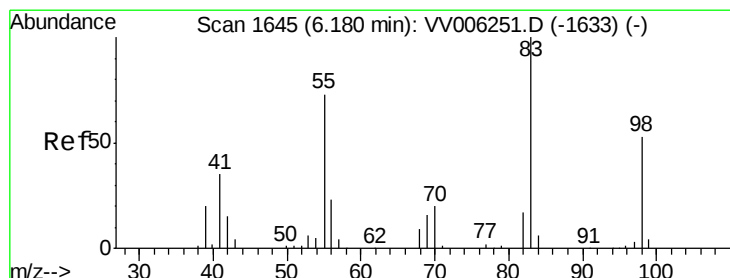
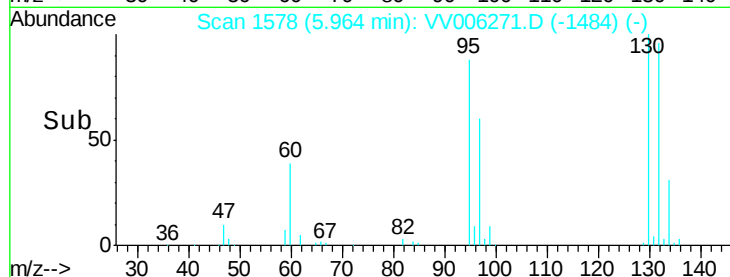
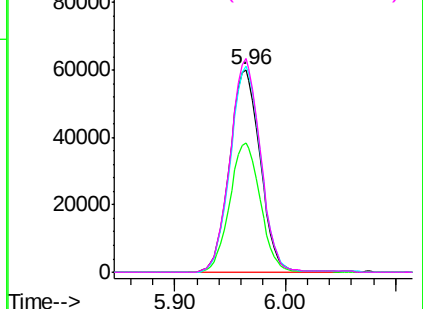


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 4.608 ug/L

RT: 6.18 min Scan# 1645

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

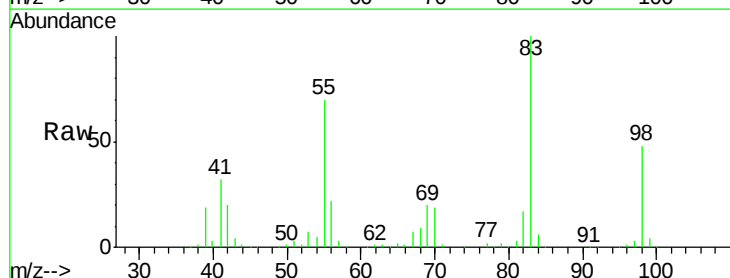
Tgt Ion: 83 Resp: 187756

Ion Ratio Lower Upper

83 100

55 70.3 57.5 86.3

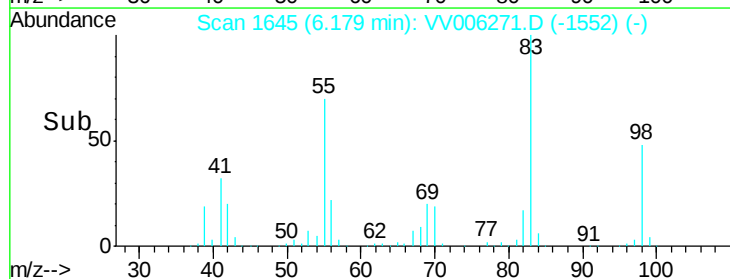
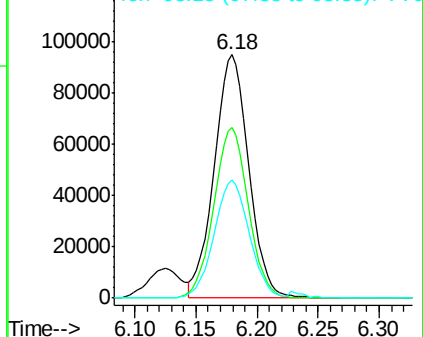
98 49.5 39.8 59.8

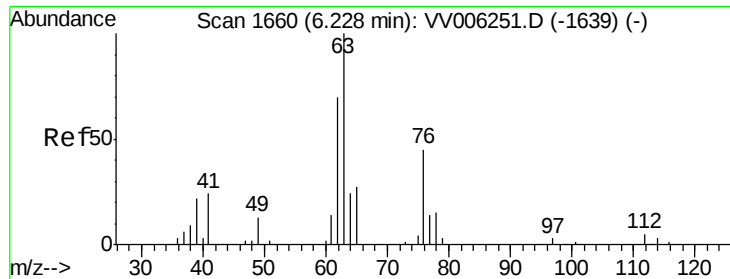


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

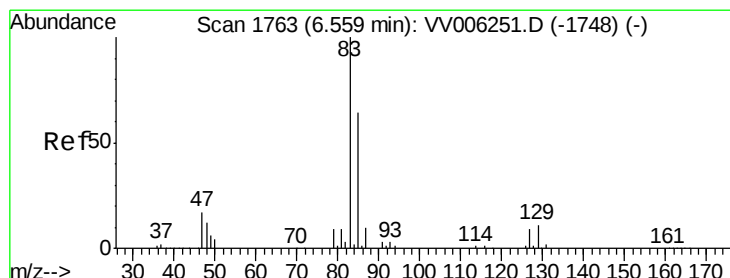
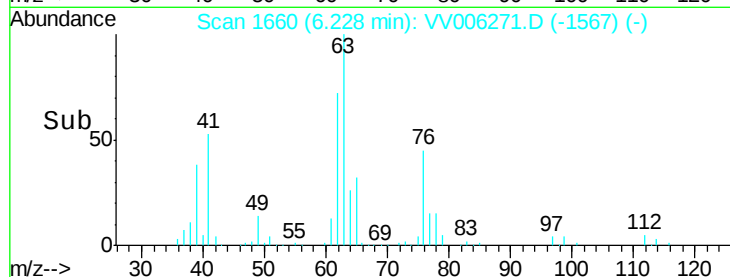
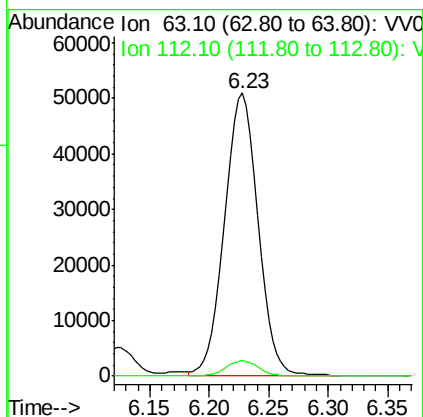
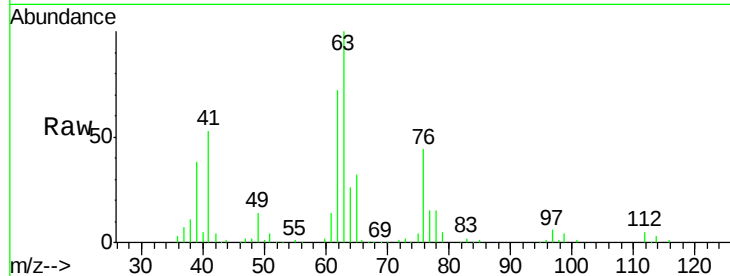




#37  
 1,2-Dichloropropane  
 Concen: 4.755 ug/L  
 RT: 6.23 min Scan# 1660  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

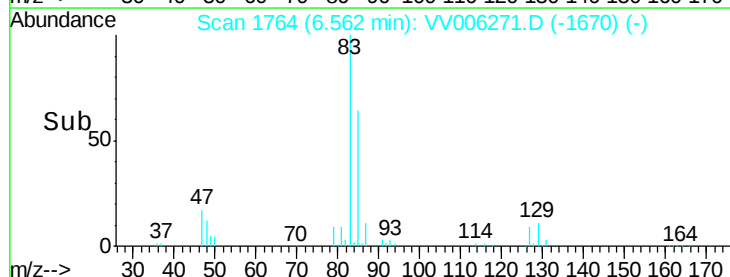
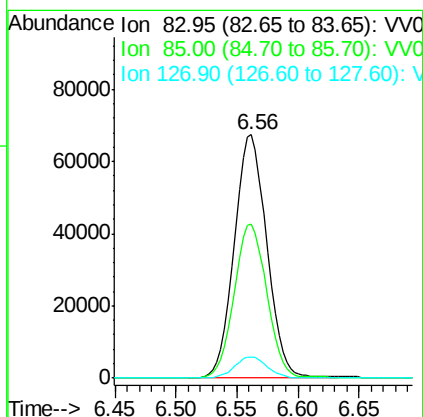
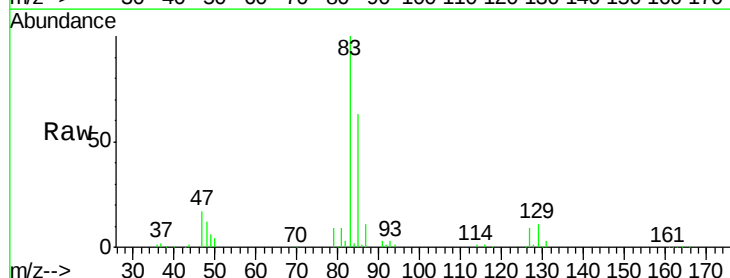
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

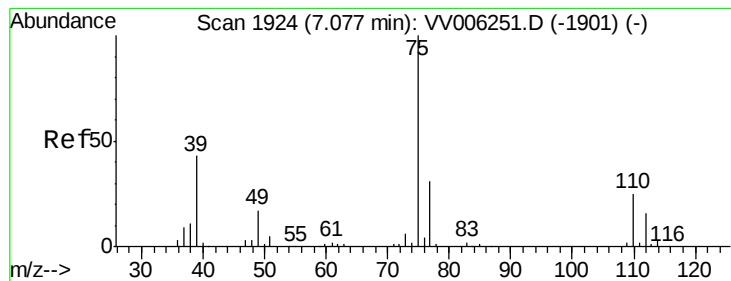
Tgt Ion: 63 Resp: 98919  
 Ion Ratio Lower Upper  
 63 100  
 112 5.3 4.1 6.1



#38  
 Bromodichloromethane  
 Concen: 4.519 ug/L  
 RT: 6.56 min Scan# 1764  
 Delta R.T. 0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Tgt Ion: 83 Resp: 125196  
 Ion Ratio Lower Upper  
 83 100  
 85 63.4 44.9 83.5  
 127 8.8 7.0 10.4



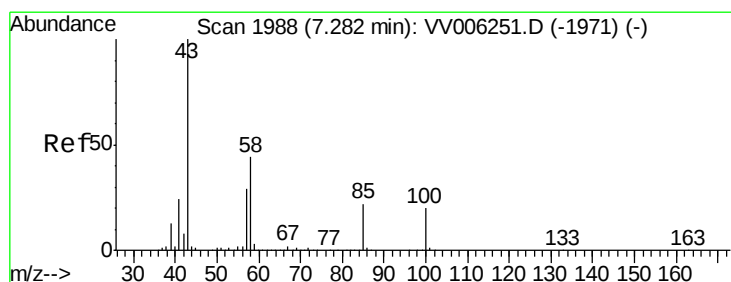
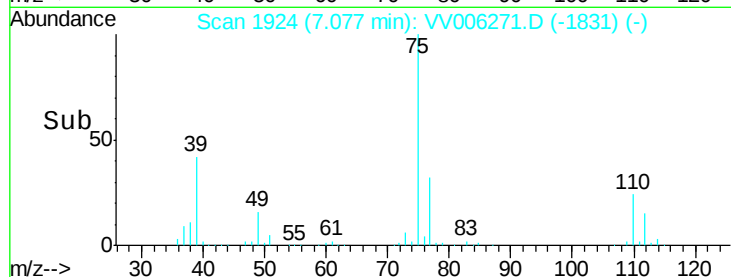
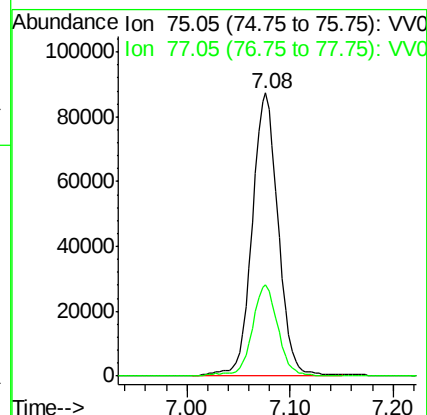
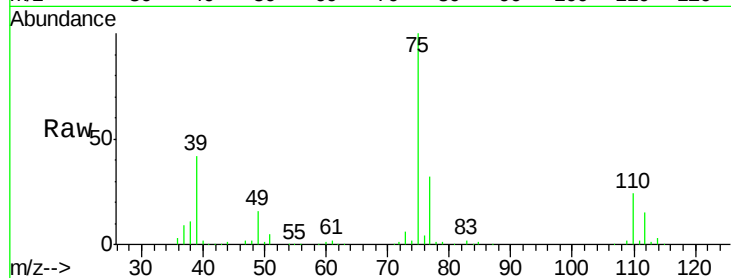


#39

cis-1,3-Dichloropropene  
 Concen: 4.514 ug/L  
 RT: 7.08 min Scan# 1924  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

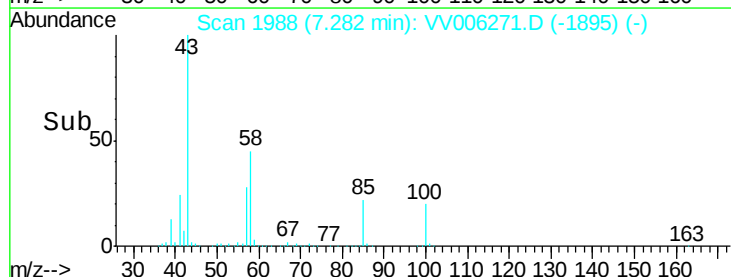
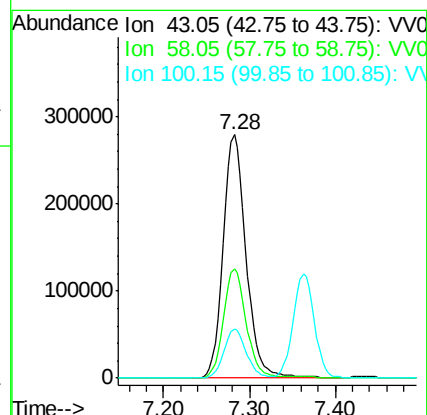
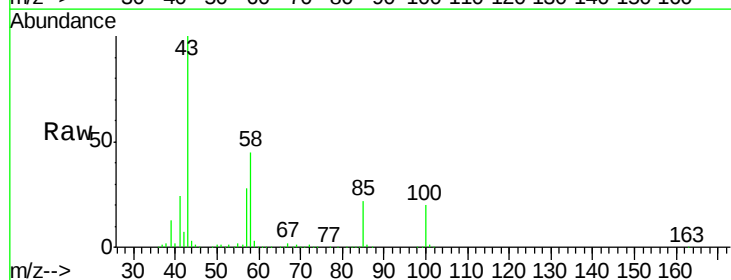
Tgt Ion: 75 Resp: 153070  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 22.5 41.7

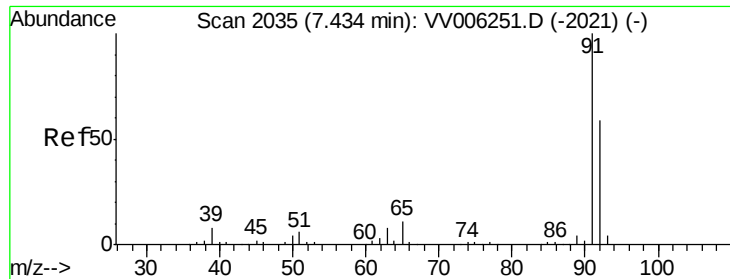


#40

4-Methyl-2-pentanone  
 Concen: 48.220 ug/L  
 RT: 7.28 min Scan# 1988  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Tgt Ion: 43 Resp: 518856  
 Ion Ratio Lower Upper  
 43 100  
 58 44.3 36.0 54.0  
 100 19.5 15.4 23.2





#42

Toluene

Concen: 4.750 ug/L

RT: 7.43 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

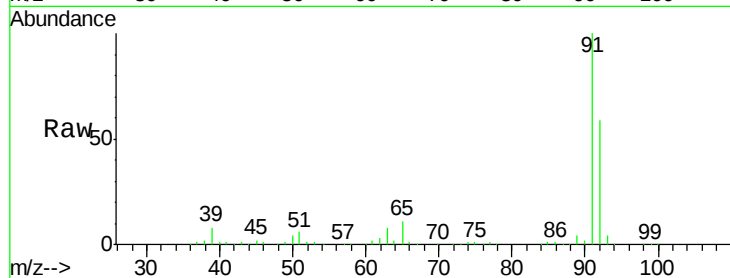
VSTD00565

Tgt Ion: 91 Resp: 455299

Ion Ratio Lower Upper

91 100

92 59.1 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

250000

200000

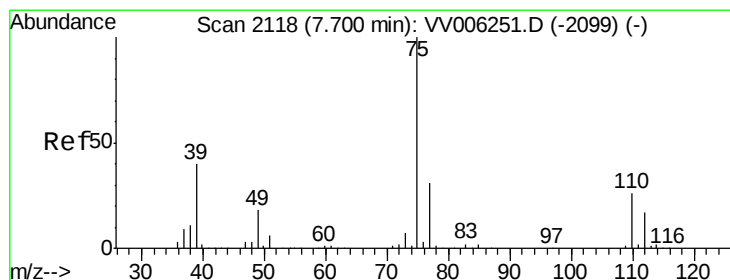
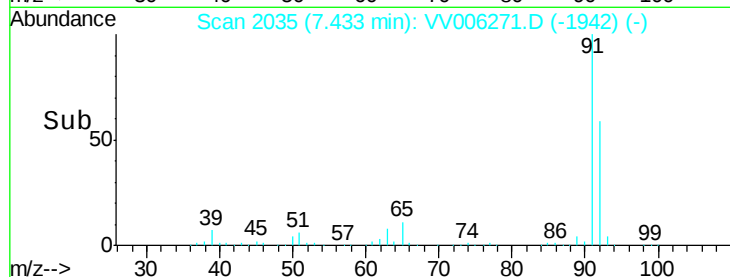
150000

100000

50000

0

Time--> 7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 4.436 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006271.D

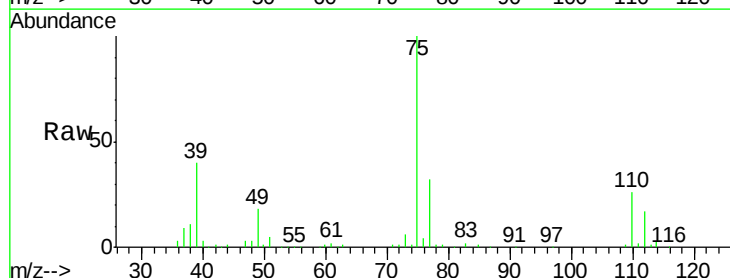
Acq: 15 Jun 2018 09:42

Tgt Ion: 75 Resp: 122004

Ion Ratio Lower Upper

75 100

77 31.6 23.0 42.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.70

80000

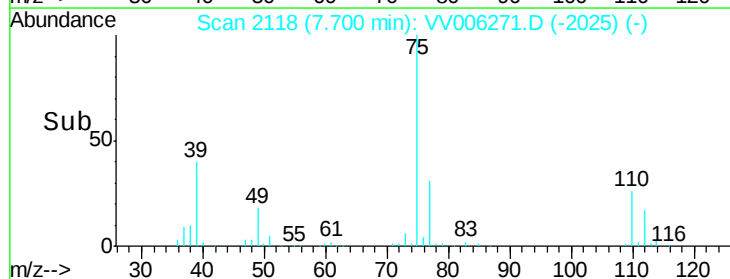
60000

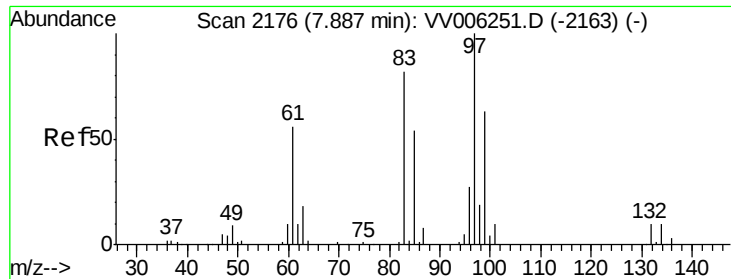
40000

20000

0

Time--> 7.60 7.70 7.80

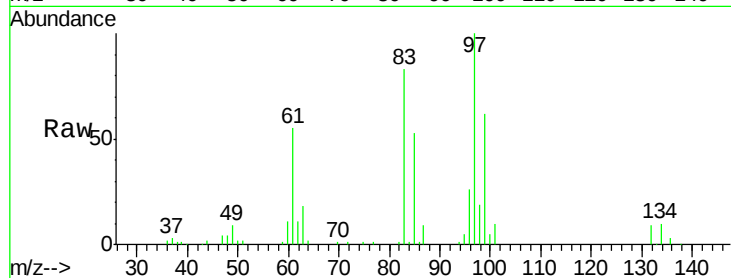




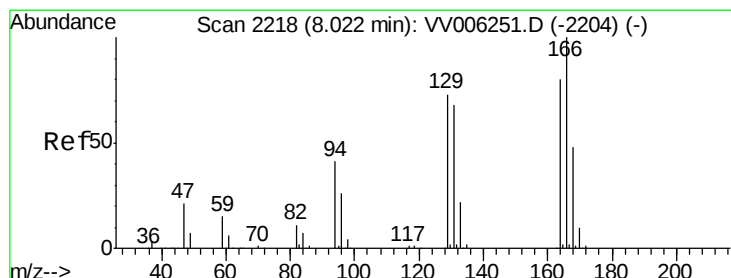
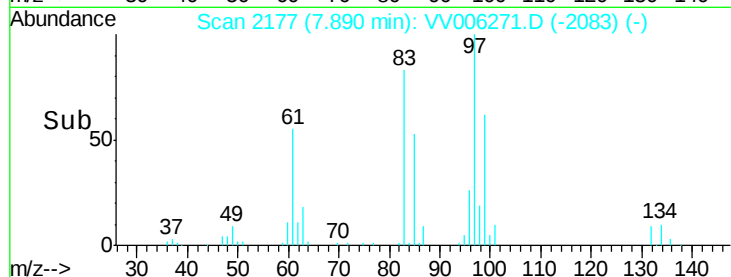
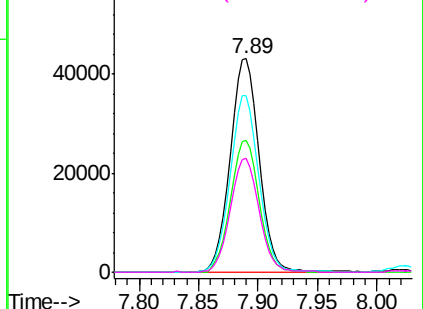
#45  
1,1,2-Trichloroethane  
Concen: 4.946 ug/L  
RT: 7.89 min Scan# 2177  
Delta R.T. 0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00565

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 72829 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.0  | 43.8  | 81.3  |
| 83       | 83.0  | 58.2  | 108.2 |
| 85       | 53.1  | 39.3  | 73.1  |

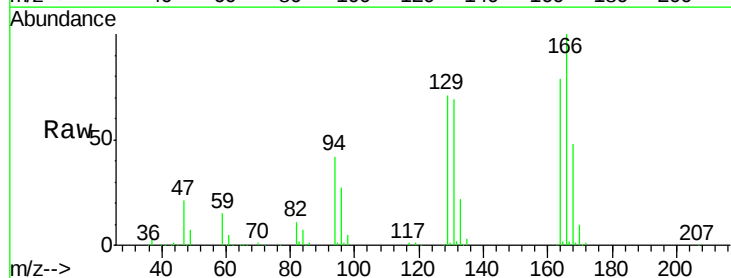


Abundance Ion 96.95 (96.65 to 97.65): VV006271.D (-2177) (-)

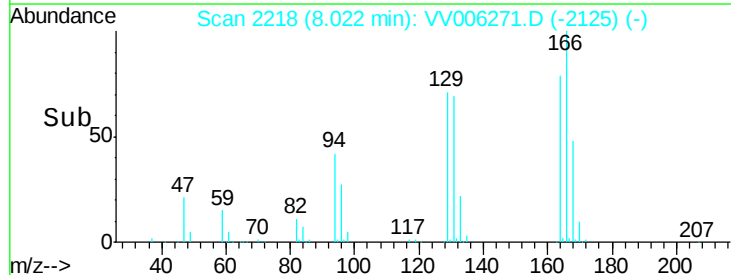
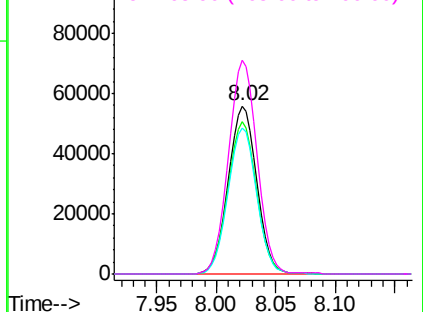


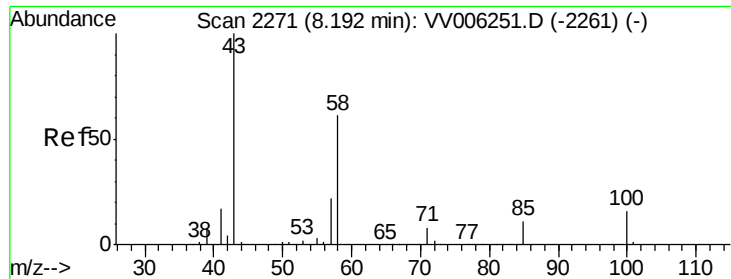
#47  
Tetrachloroethene  
Concen: 4.910 ug/L  
RT: 8.02 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 93144 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 90.3  | 62.7  | 116.5 |
| 131      | 87.1  | 61.0  | 113.2 |
| 166      | 127.1 | 89.5  | 166.3 |



Abundance Ion 163.90 (163.60 to 164.60): VV006271.D (-2218) (-)

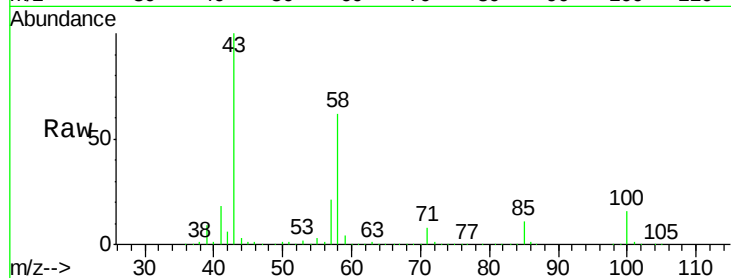




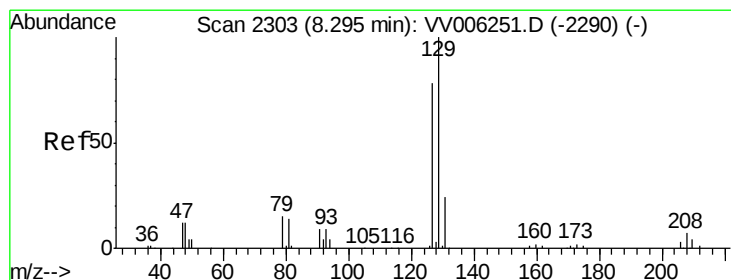
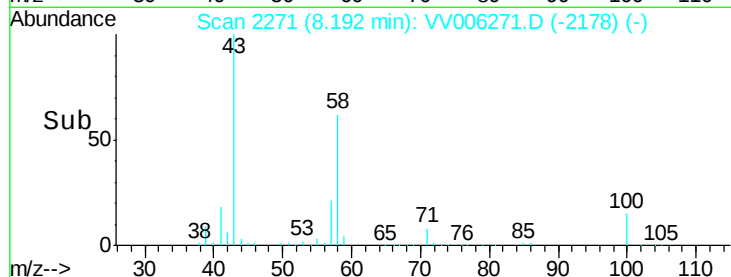
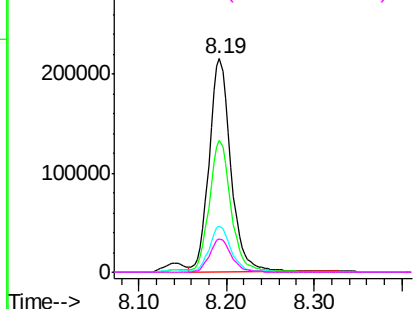
#48  
2-Hexanone  
Concen: 49.275 ug/L  
RT: 8.19 min Scan# 2271  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00565

Tgt Ion: 43 Resp: 372634  
Ion Ratio Lower Upper  
43 100  
58 61.4 48.6 72.8  
57 21.5 17.5 26.3  
100 15.7 12.6 18.8

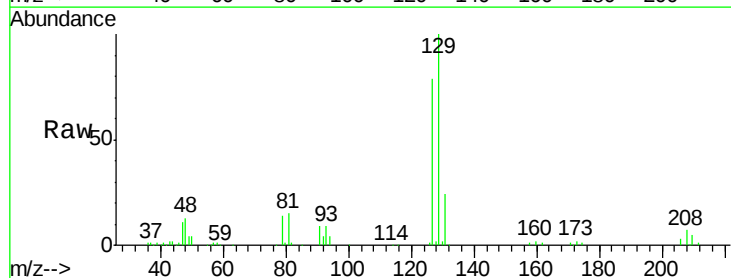


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

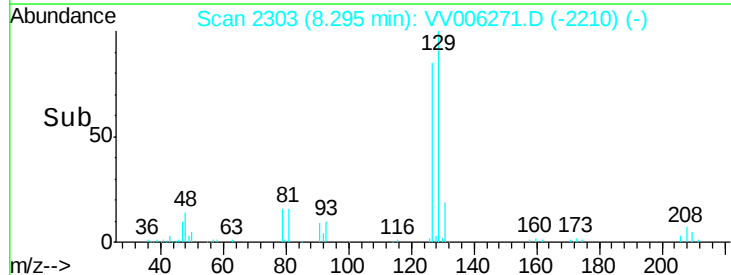
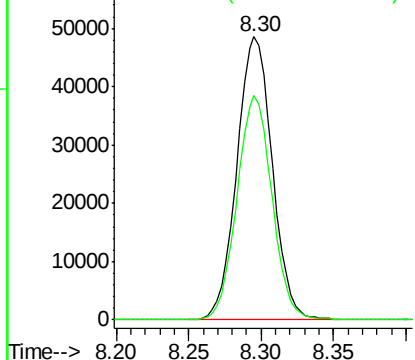


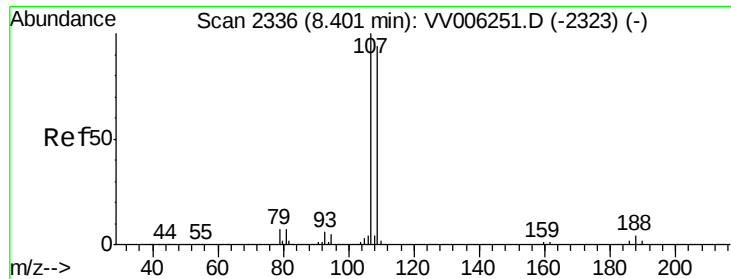
#49  
Dibromochloromethane  
Concen: 4.445 ug/L  
RT: 8.30 min Scan# 2303  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Tgt Ion: 129 Resp: 82408  
Ion Ratio Lower Upper  
129 100  
127 79.3 55.2 102.4



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

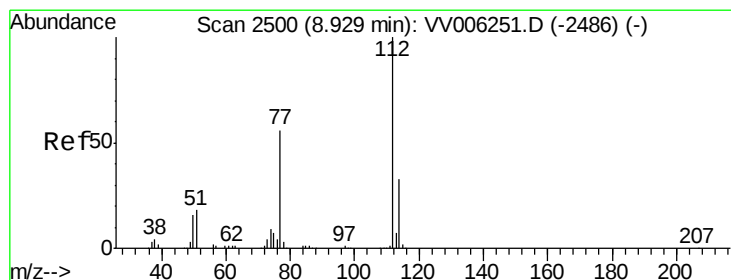
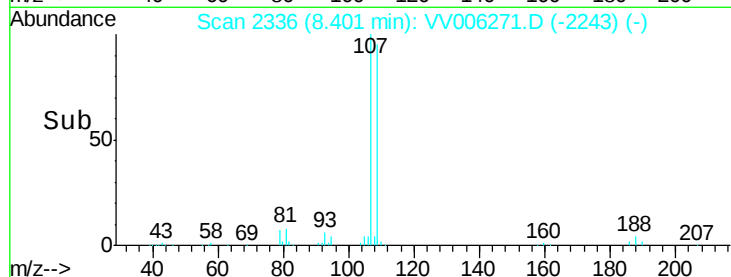
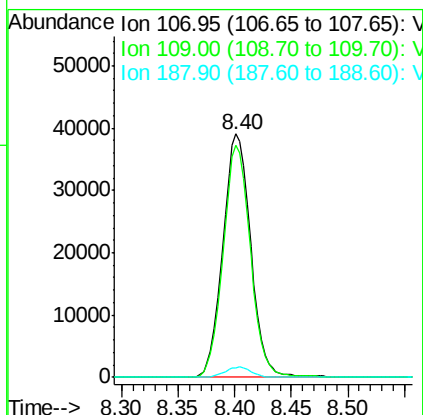
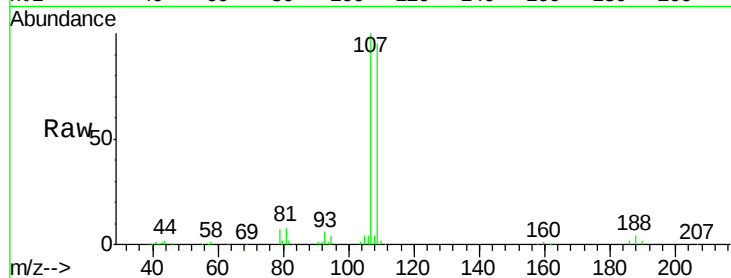




#50  
1,2-Dibromoethane  
Concen: 4.883 ug/L  
RT: 8.40 min Scan# 2336  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

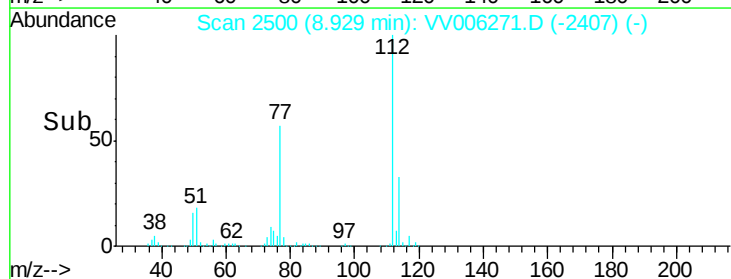
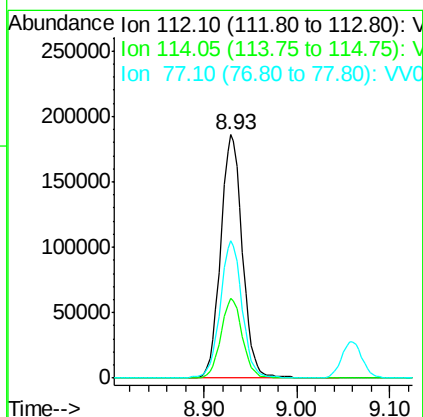
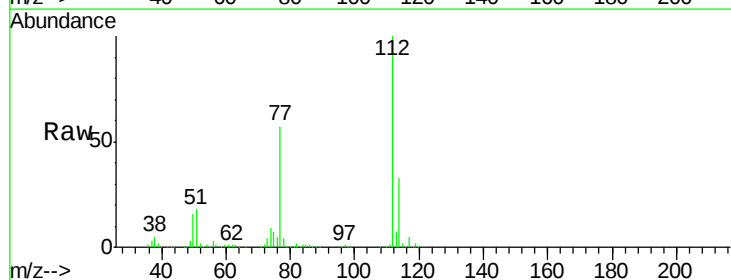
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00565

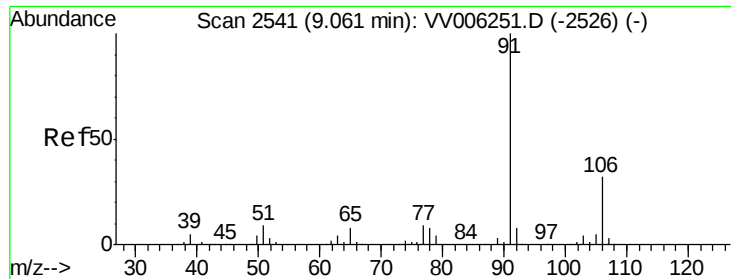
Tgt Ion:107 Resp: 66997  
Ion Ratio Lower Upper  
107 100  
109 95.1 66.8 124.2  
188 4.1 3.4 5.0



#51  
Chlorobenzene  
Concen: 4.919 ug/L  
RT: 8.93 min Scan# 2500  
Delta R.T. -0.00 min  
Lab File: VV006271.D  
Acq: 15 Jun 2018 09:42

Tgt Ion:112 Resp: 302747  
Ion Ratio Lower Upper  
112 100  
114 32.6 22.2 41.2  
77 56.5 45.2 67.8





#52

Ethylbenzene

Concen: 4.774 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

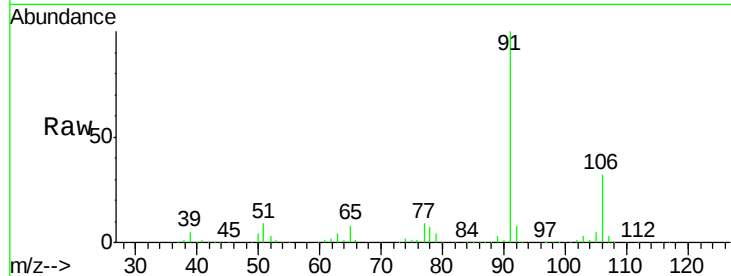
VSTD00565

Tgt Ion: 91 Resp: 509810

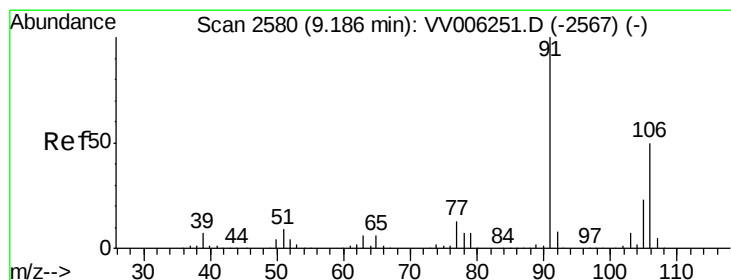
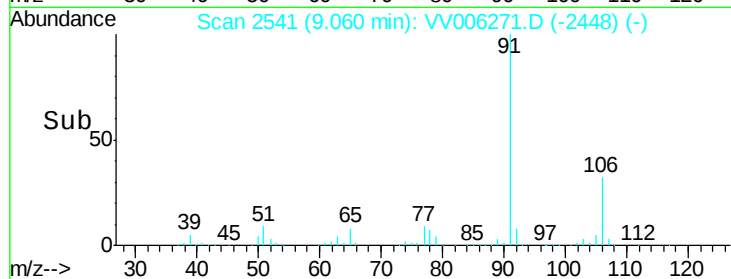
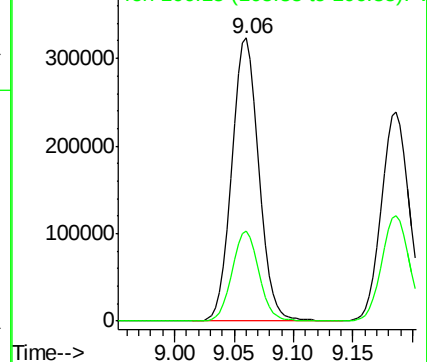
Ion Ratio Lower Upper

91 100

106 31.8 21.9 40.7



Abundance Ion 91.15 (90.85 to 91.85): VV006271.D (-2448) (-)



#53

m,p-xylene

Concen: 4.768 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006271.D

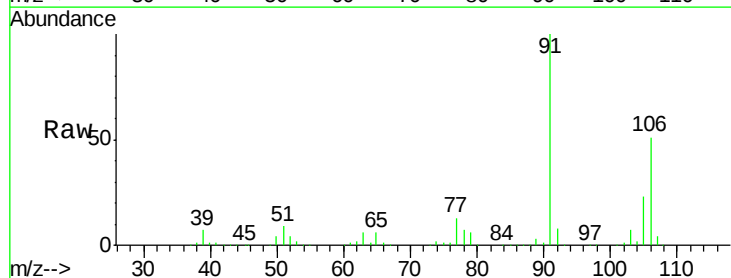
Acq: 15 Jun 2018 09:42

Tgt Ion: 106 Resp: 198651

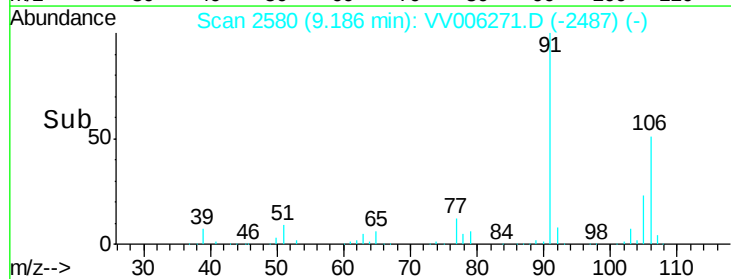
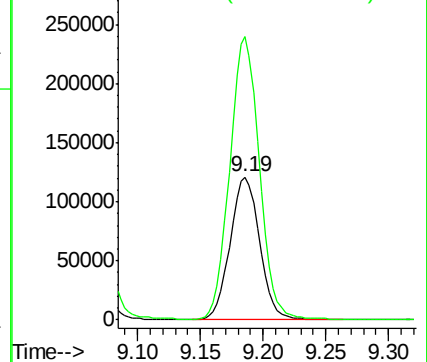
Ion Ratio Lower Upper

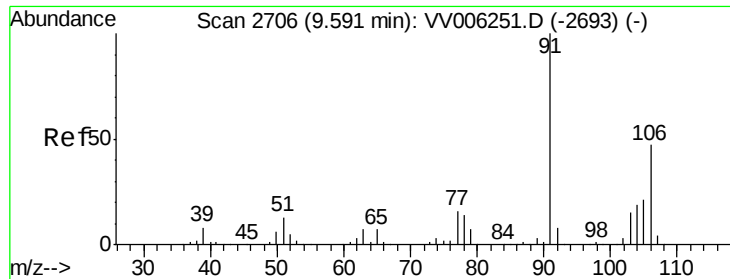
106 100

91 197.9 139.7 259.4



Abundance Ion 106.15 (105.85 to 106.85): VV006271.D (-2487) (-)





#54

o-xylene

Concen: 4.782 ug/L

RT: 9.59 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

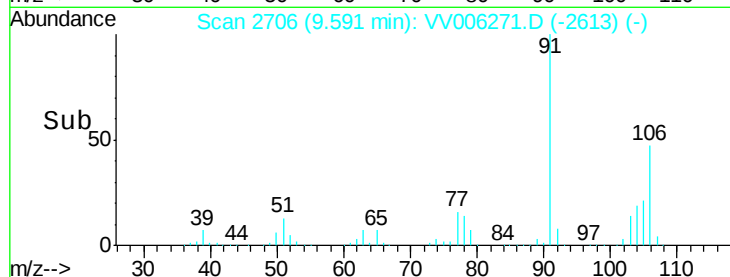
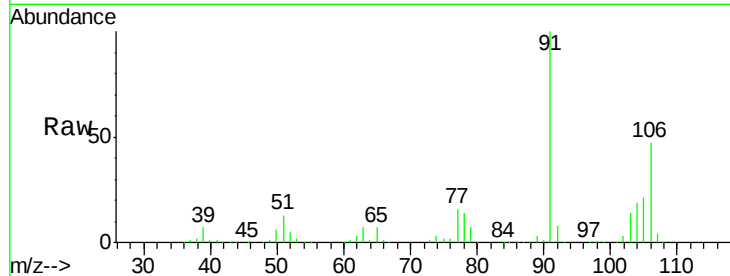
VSTD00565

Tgt Ion:106 Resp: 194811

Ion Ratio Lower Upper

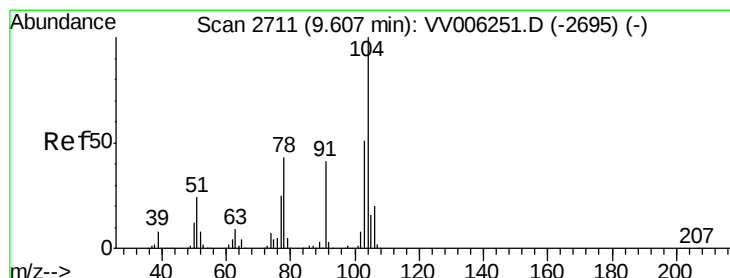
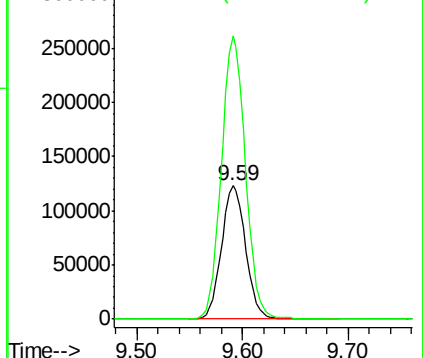
106 100

91 212.3 147.9 274.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.745 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. -0.00 min

Lab File: VV006271.D

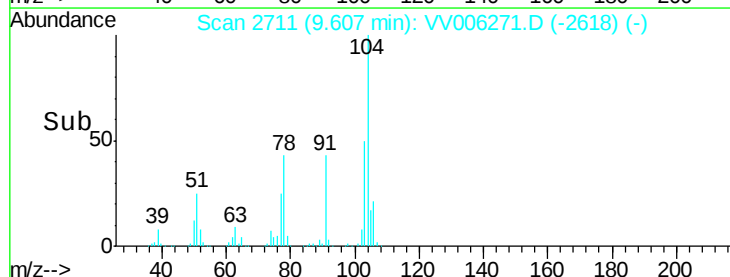
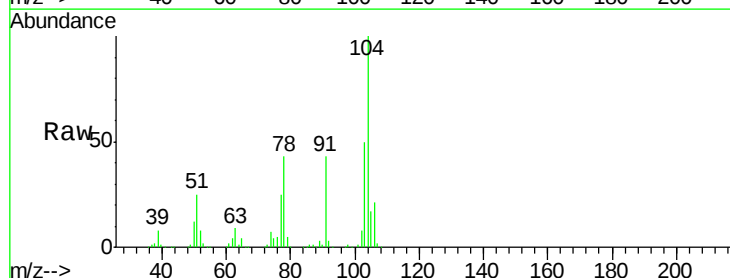
Acq: 15 Jun 2018 09:42

Tgt Ion:104 Resp: 318023

Ion Ratio Lower Upper

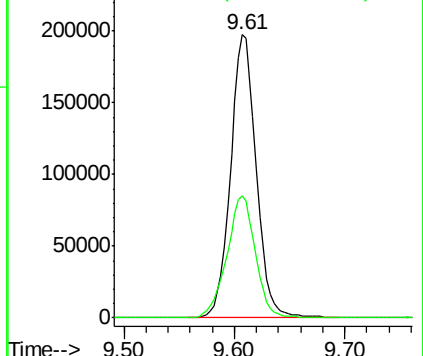
104 100

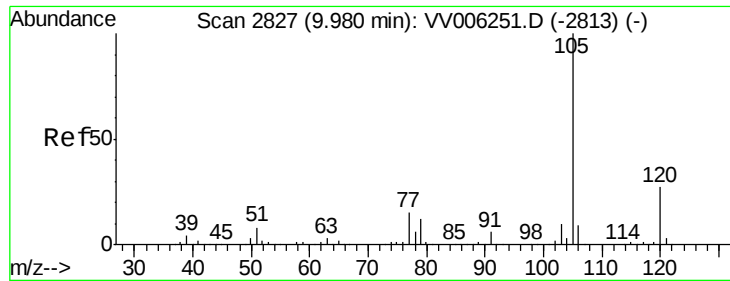
78 43.2 30.6 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.854 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

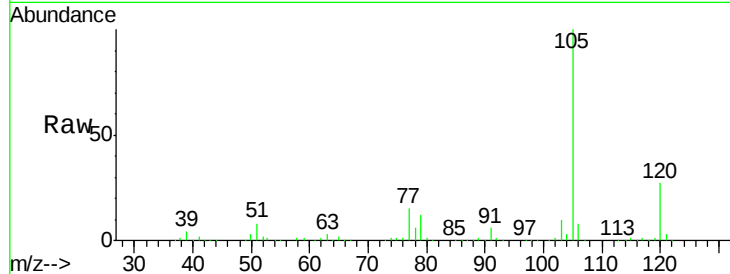
Tgt Ion: 105 Resp: 520748

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.2

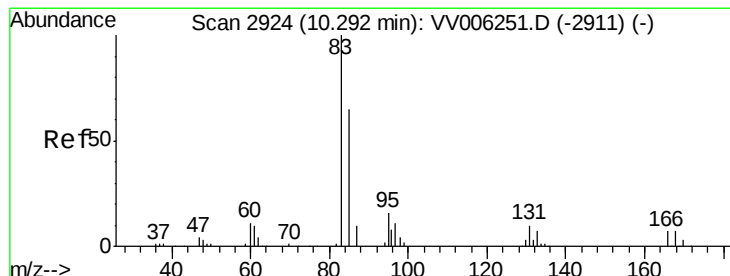
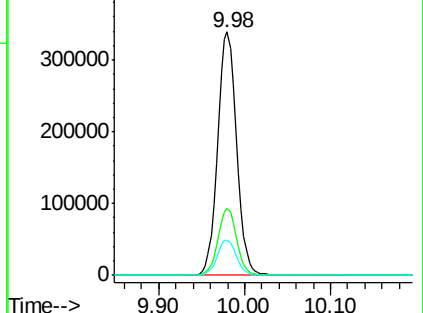
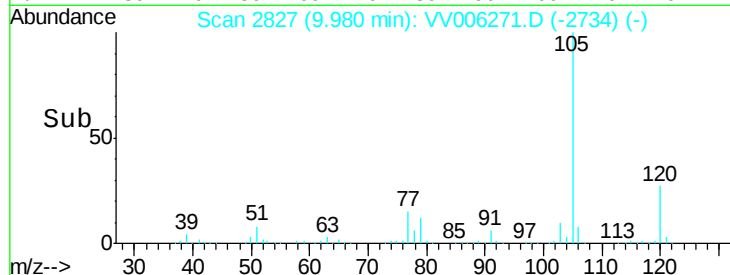
77 14.7 11.9 17.9



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: 4.362 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

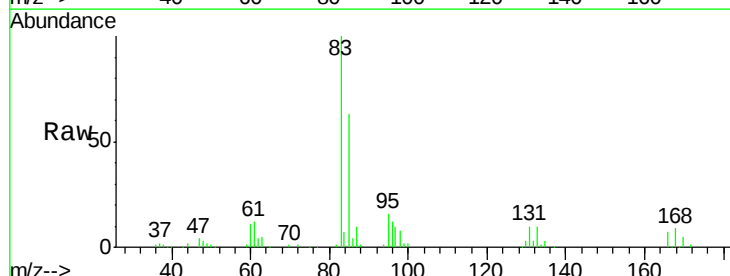
Tgt Ion: 83 Resp: 73565

Ion Ratio Lower Upper

83 100

85 63.5 45.0 83.6

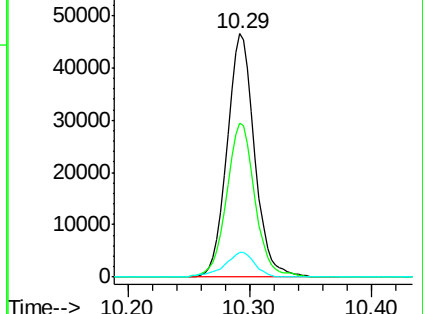
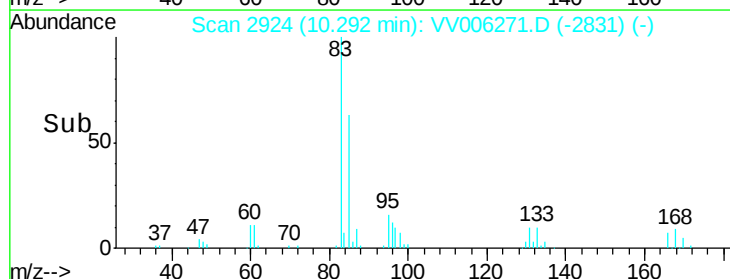
131 10.2 8.3 12.5

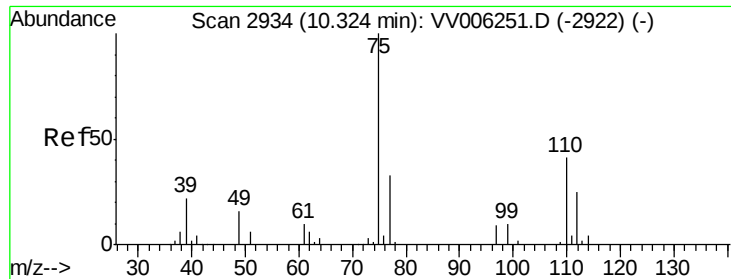


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

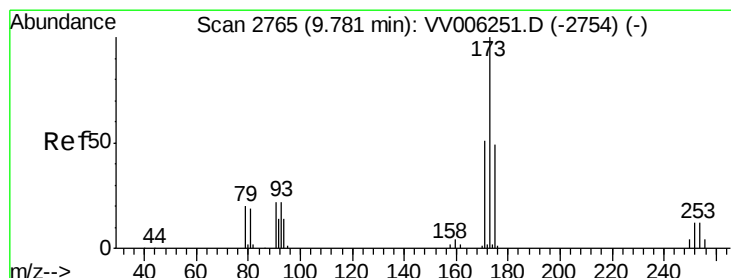
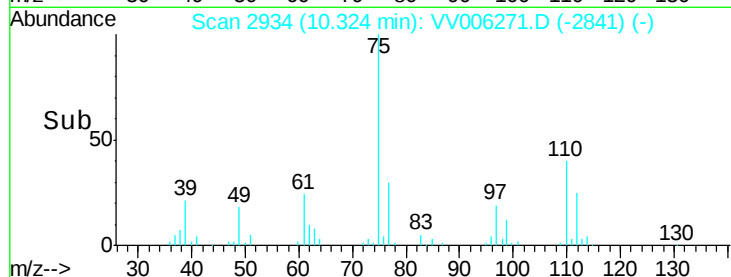
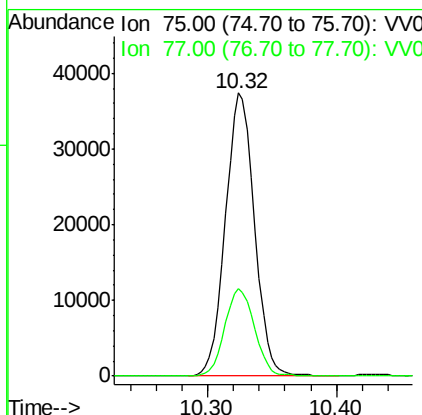
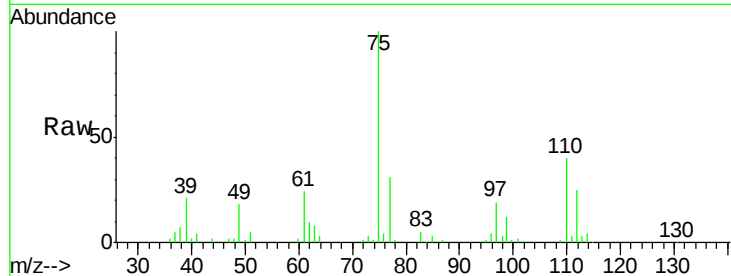




#59  
 1,2,3-Trichloropropane  
 Concen: 4.971 ug/L  
 RT: 10.32 min Scan# 2934  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

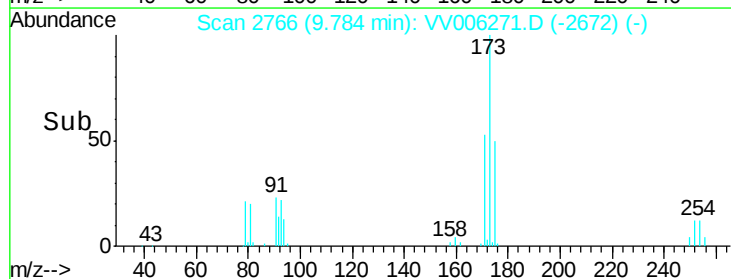
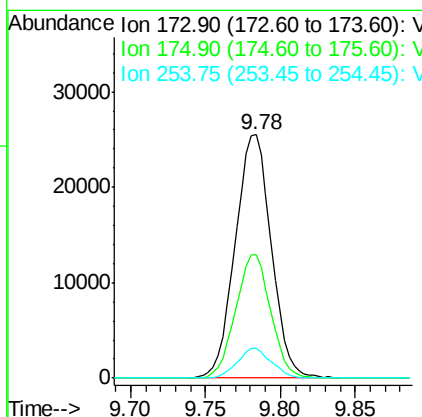
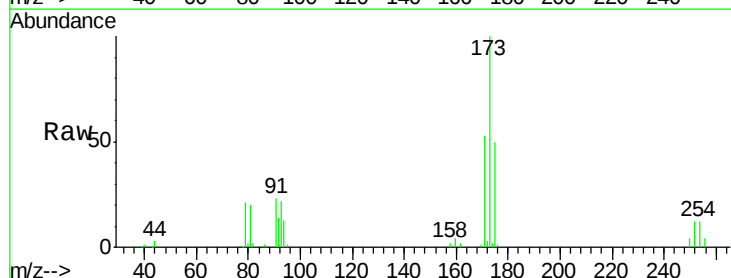
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

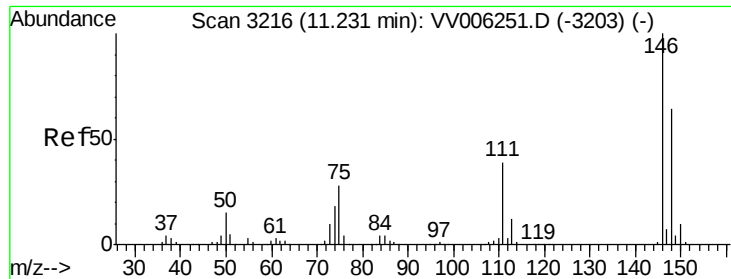
Tgt Ion: 75 Resp: 58267  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 25.7 38.5



#61  
 Bromoform  
 Concen: 4.008 ug/L  
 RT: 9.78 min Scan# 2766  
 Delta R.T. 0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Tgt Ion: 173 Resp: 42688  
 Ion Ratio Lower Upper  
 173 100  
 175 49.2 39.3 58.9  
 254 11.6 9.1 13.7

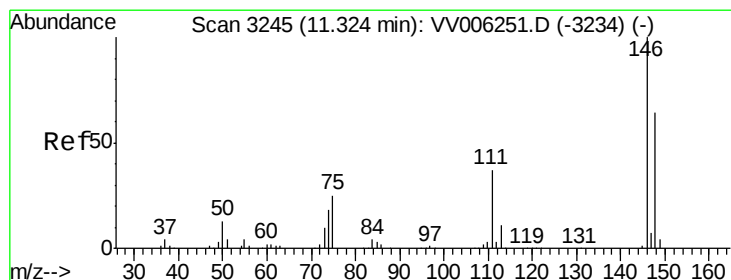
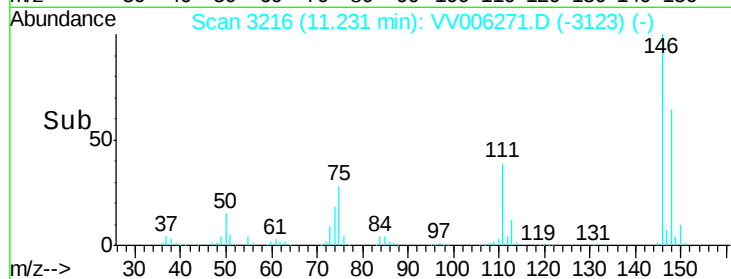
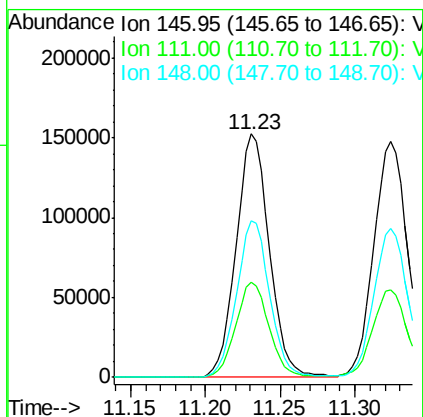
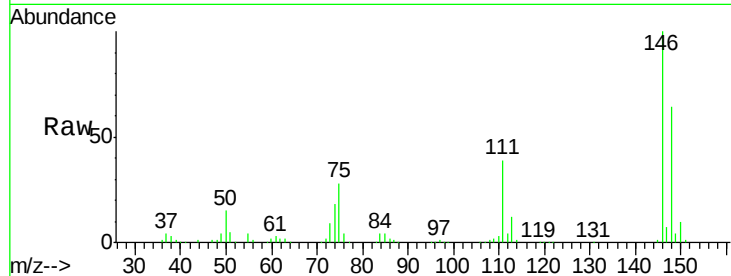




#62  
 1,3-Dichlorobenzene  
 Concen: 4.771 ug/L  
 RT: 11.23 min Scan# 3216  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

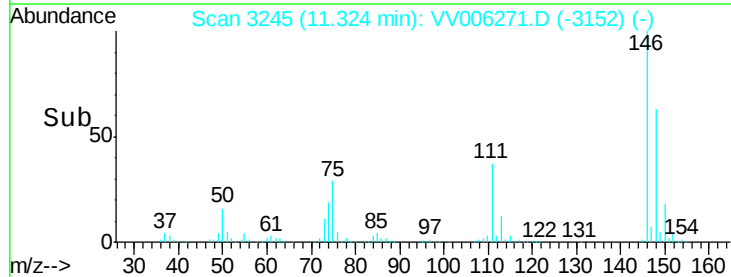
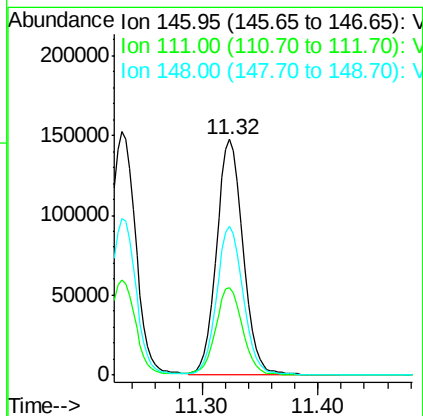
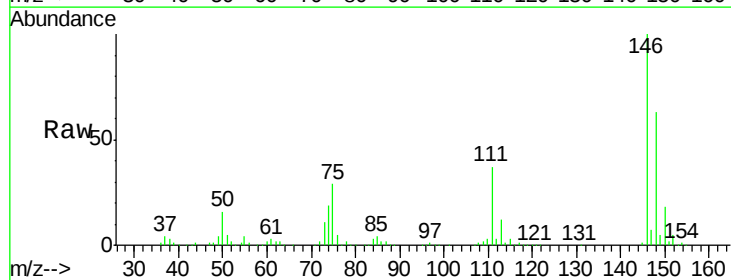
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

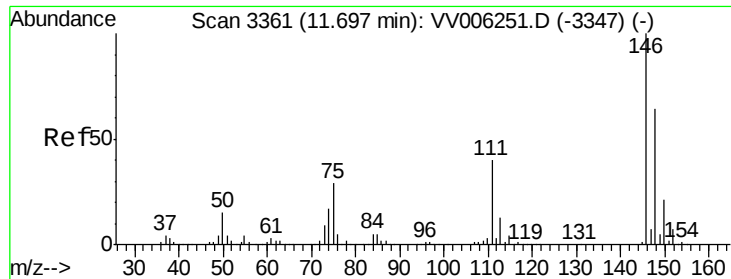
Tgt Ion:146 Resp: 235894  
 Ion Ratio Lower Upper  
 146 100  
 111 39.2 27.6 51.2  
 148 64.4 45.1 83.7



#63  
 1,4-Dichlorobenzene  
 Concen: 4.818 ug/L  
 RT: 11.32 min Scan# 3245  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Tgt Ion:146 Resp: 235646  
 Ion Ratio Lower Upper  
 146 100  
 111 37.3 26.9 50.1  
 148 63.0 44.8 83.2





#65

1,2-Dichlorobenzene

Concen: 4.815 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

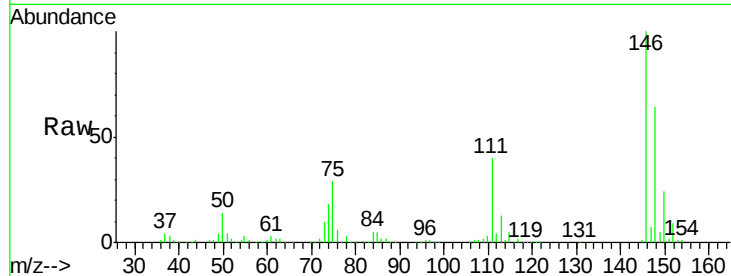
Tgt Ion: 146 Resp: 219695

Ion Ratio Lower Upper

146 100

111 40.4 32.8 49.2

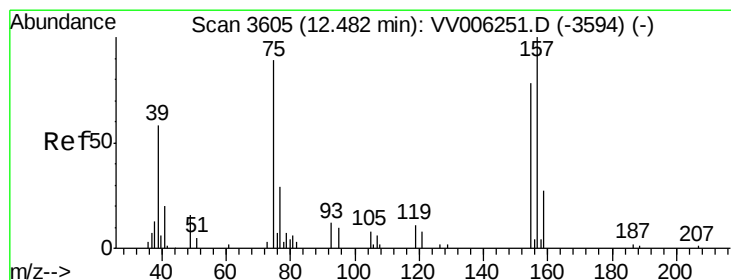
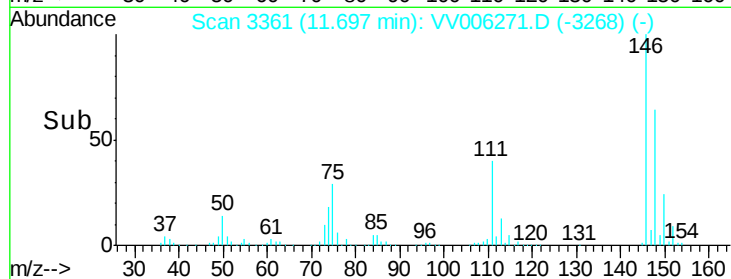
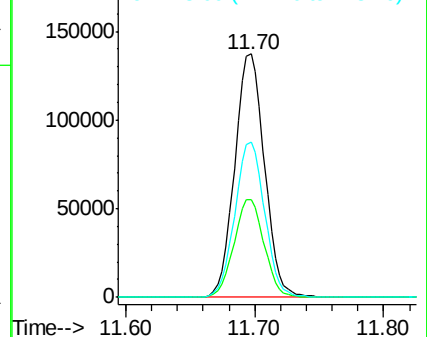
148 64.0 51.4 77.2



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: 3.761 ug/L

RT: 12.48 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

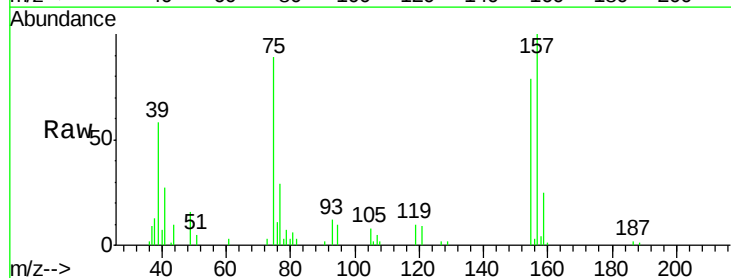
Tgt Ion: 75 Resp: 11277

Ion Ratio Lower Upper

75 100

155 88.8 70.3 105.5

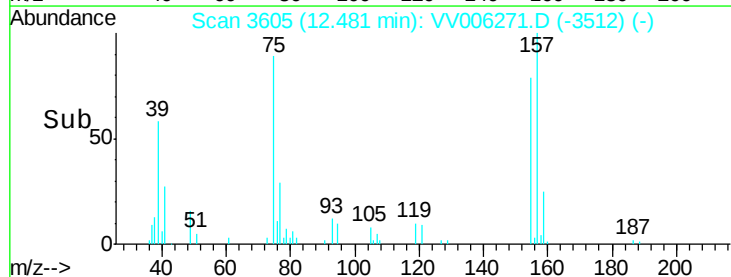
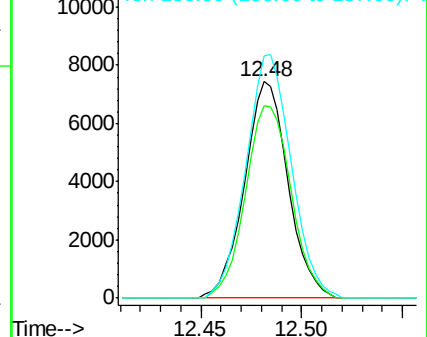
157 111.9 93.8 140.6

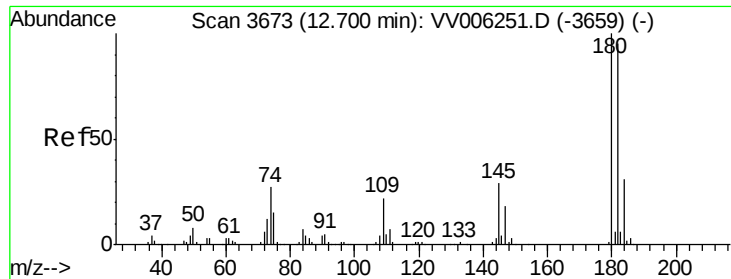


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

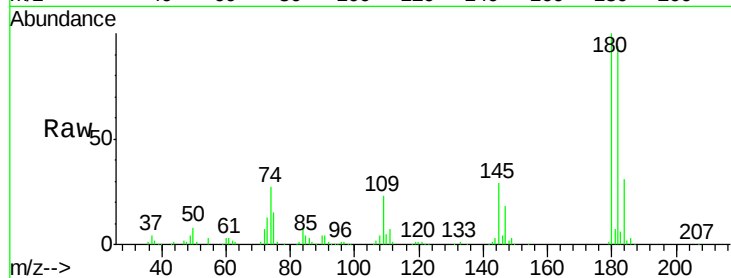




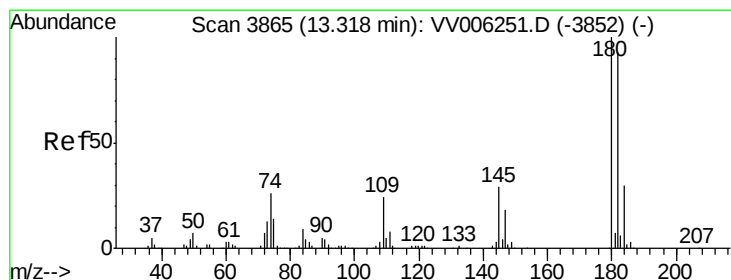
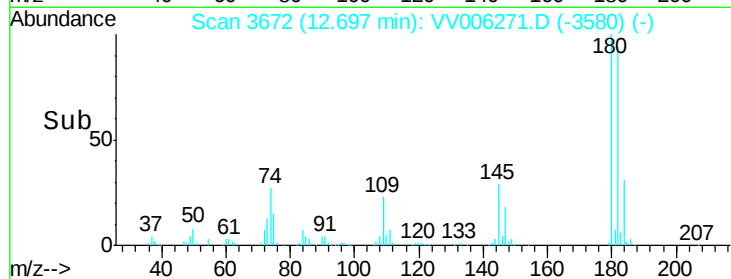
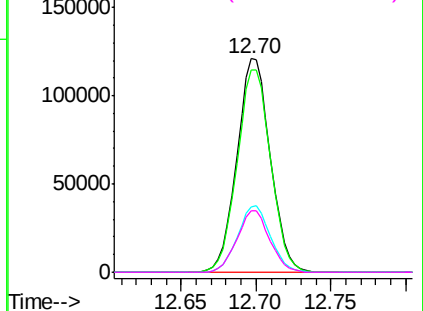
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.929 ug/L  
 RT: 12.70 min Scan# 3672  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00565

Tgt Ion:180 Resp: 187576  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 75.4 113.2  
 184 30.5 24.3 36.5  
 145 28.3 23.1 34.7

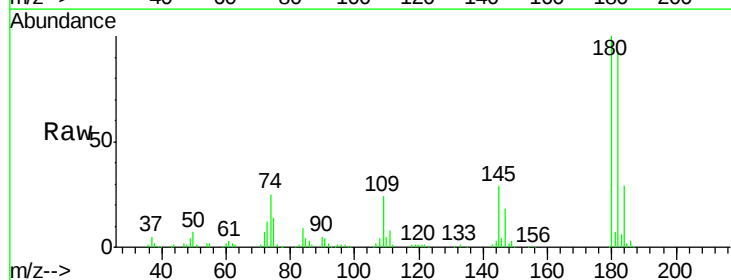


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

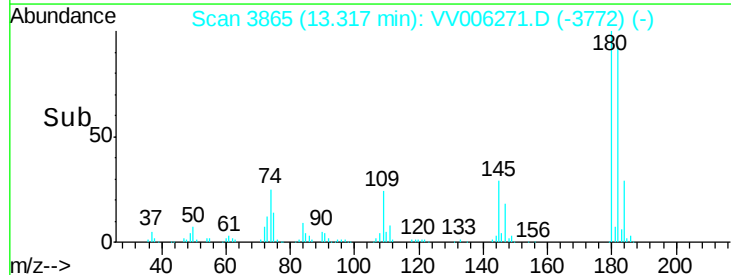
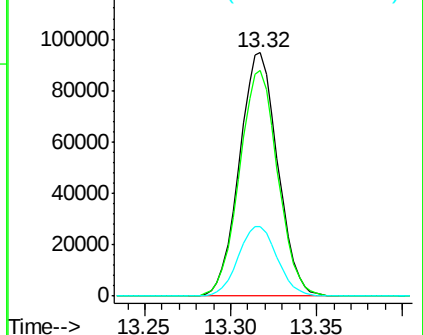


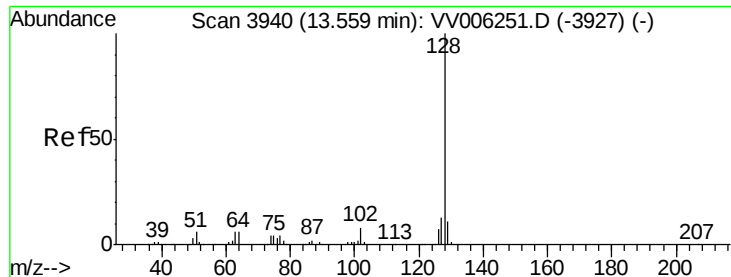
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.982 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. -0.00 min  
 Lab File: VV006271.D  
 Acq: 15 Jun 2018 09:42

Tgt Ion:180 Resp: 146610  
 Ion Ratio Lower Upper  
 180 100  
 182 93.1 76.7 115.1  
 145 29.1 23.7 35.5



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: 4.558 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00565

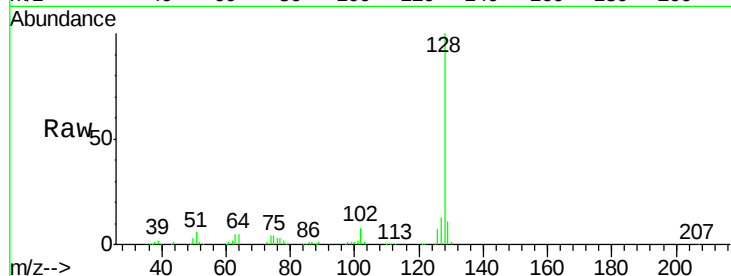
Tgt Ion:128 Resp: 225702

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

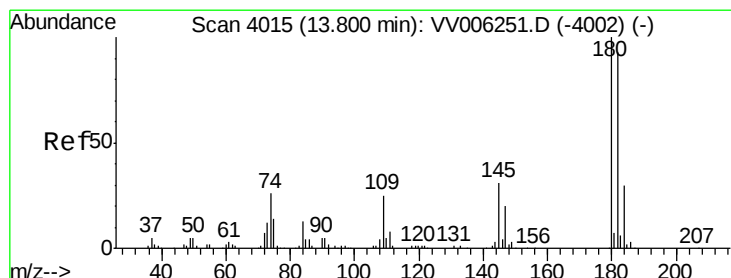
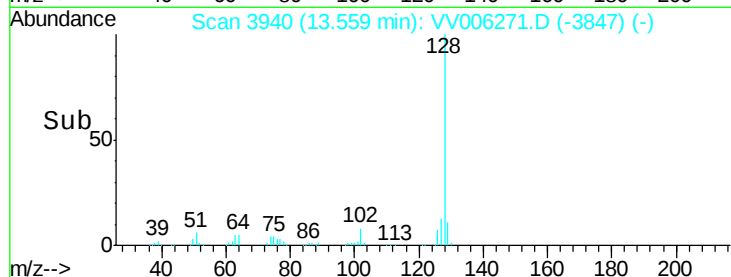
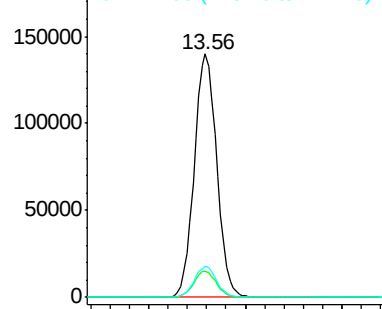
127 12.6 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.960 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006271.D

Acq: 15 Jun 2018 09:42

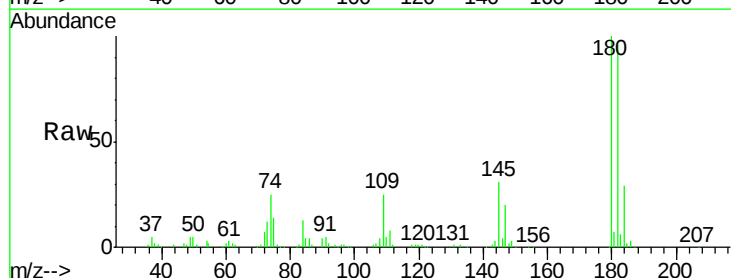
Tgt Ion:180 Resp: 134090

Ion Ratio Lower Upper

180 100

182 95.7 76.2 114.2

145 31.1 25.0 37.4



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

