

Data File : VV006617.D  
Acq On : 17 Jul 2018 14:01  
Operator : SY/MD  
Sample : VSTD02079  
Misc : 25 mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Quant Time: Jul 17 14:21:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jul 17 13:43:50 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 252624   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 238165   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 121925   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 472116  | 34.37  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 317811  | 26.51  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 787427  | 30.82  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.96  | 46  | 670805  | 192.28 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 754371  | 27.92  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 365329  | 29.10  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 1579738 | 29.07  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 494650  | 28.07  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.37  | 98  | 1465150 | 30.19  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 188179  | 31.49  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 1012111 | 335.35 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 393777  | 28.41  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 548140  | 26.14  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 323152  | 16.310 ug/L  | # 80   |
| 3) Chloromethane               | 1.27 | 50  | 602004  | 24.842 ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 599481  | 26.656 ug/L  | 100    |
| 6) Bromomethane                | 1.51 | 94  | 148978  | 14.291 ug/L  | 98     |
| 8) Chloroethane                | 1.58 | 64  | 305003  | 22.343 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 631507  | 24.954 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 378521  | 24.212 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 393588  | 24.883 ug/L  | 98     |
| 13) Acetone                    | 2.19 | 43  | 636649  | 288.547 ug/L | 100    |
| 14) Carbon disulfide           | 2.31 | 76  | 1274025 | 26.931 ug/L  | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 187523  | 28.872 ug/L  | 99     |
| 16) Methylene chloride         | 2.54 | 84  | 445758  | 24.994 ug/L  | 100    |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 1040325 | 27.766 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 442084  | 25.619 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 814301  | 27.191 ug/L  | 98     |
| 21) 2-Butanone                 | 4.04 | 43  | 1167333 | 322.452 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 478552  | 25.813 ug/L  | 100    |
| 23) Bromochloromethane         | 4.30 | 128 | 196865  | 25.924 ug/L  | 98     |
| 25) Chloroform                 | 4.43 | 83  | 767445  | 25.763 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 455337  | 26.916 ug/L  | 98     |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 625594  | 25.071 ug/L  | 100    |
| 30) Cyclohexane                | 4.72 | 56  | 664399  | 25.021 ug/L  | 100    |
| 31) Carbon tetrachloride       | 4.88 | 117 | 524337  | 25.117 ug/L  | 100    |
| 33) Benzene                    | 5.15 | 78  | 1784843 | 25.109 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 437626  | 24.003 ug/L  | 99     |
| 35) Methylcyclohexane          | 6.18 | 83  | 715818  | 24.380 ug/L  | 99     |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 454319  | 26.131 ug/L  | 100    |
| 38) Bromodichloromethane       | 6.56 | 83  | 531059  | 27.089 ug/L  | 100    |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 663253  | 28.421 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 7.29 | 43  | 2681366 | 304.257 ug/L | 97     |

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Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Quant Time: Jul 17 14:21:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jul 17 13:43:50 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.44  | 91   | 1856152  | 25.104  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 531081   | 29.481  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 313349   | 25.758  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 343654   | 22.921  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.19  | 43   | 1949574  | 311.990 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.30  | 129  | 356244   | 28.080  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 289755   | 26.165  | ug/L  | 98       |
| 51) Chlorobenzene              | 8.93  | 112  | 1200390  | 24.817  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.06  | 91   | 2034400  | 25.897  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.19  | 106  | 787815   | 26.030  | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 783235   | 26.438  | ug/L  | 97       |
| 55) Styrene                    | 9.61  | 104  | 1363215  | 27.366  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.98  | 105  | 1992734  | 26.228  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.30 | 83   | 402639   | 28.052  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.33 | 75   | 284046   | 27.456  | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 193297   | 27.675  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 933371   | 24.271  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 943350   | 24.132  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 903454   | 24.321  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 58942    | 29.692  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 744795   | 24.448  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 643329   | 26.540  | ug/L  | 100      |
| 69) Naphthalene                | 13.56 | 128  | 1266988  | 30.783  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 604788   | 26.616  | ug/L  | 100      |

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

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Sample : VSTD02079

Misc : 25 mL/MSVOA V/WATER

```
ALS Vial      : 1      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD02079

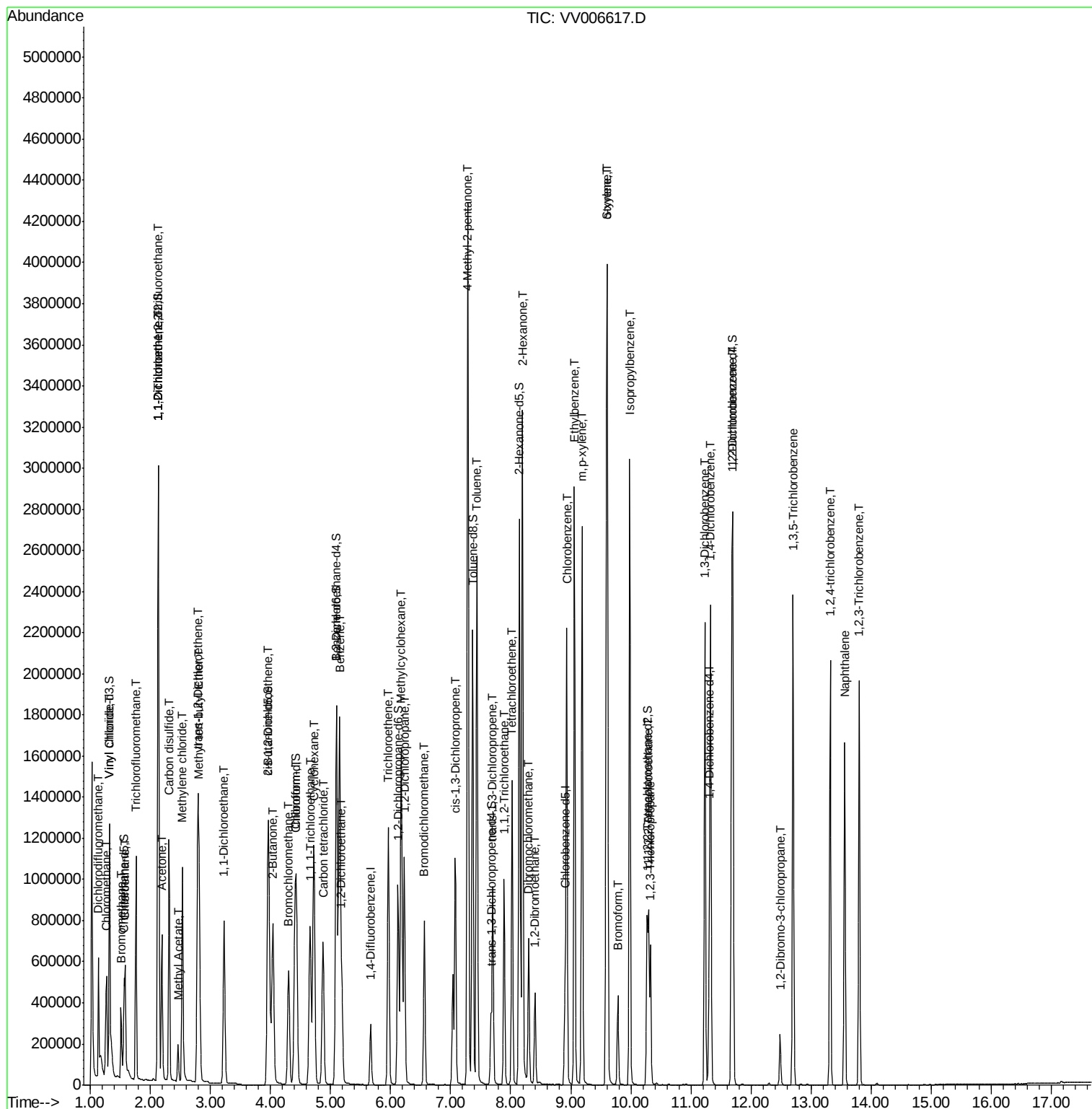
Quant Time: Jul 17 14:21:02 2018

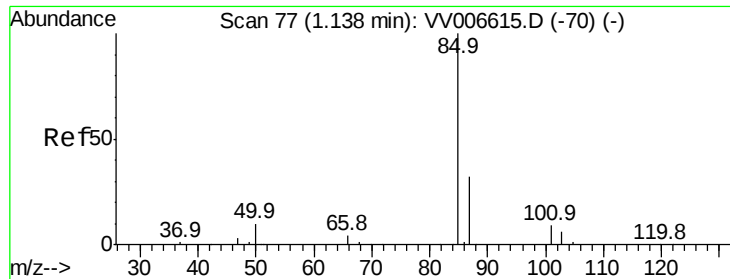
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Tue Jul 17 13:43:50 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 16.310 ug/L

RT: 1.14 min Scan# 77

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

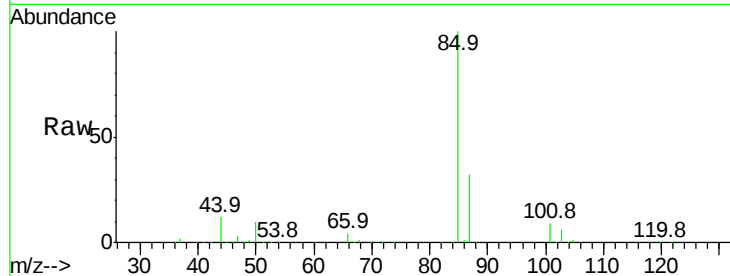
VSTD02079

Tgt Ion: 85 Resp: 323152

Ion Ratio Lower Upper

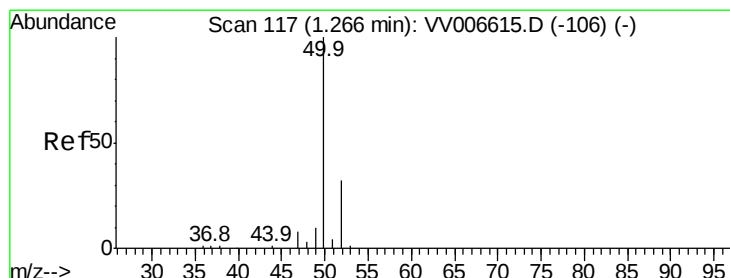
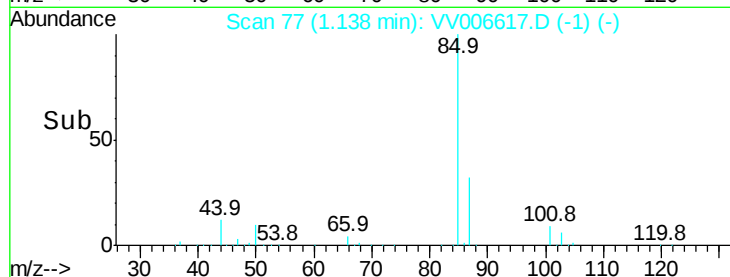
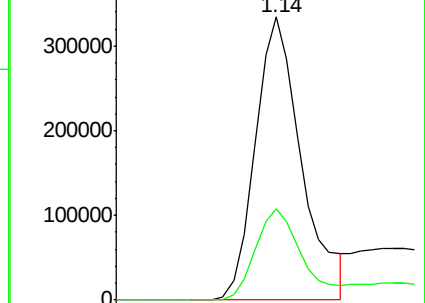
85 100

87 32.4 18.3 27.5#



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 24.842 ug/L

RT: 1.27 min Scan# 118

Delta R.T. 0.00 min

Lab File: VV006617.D

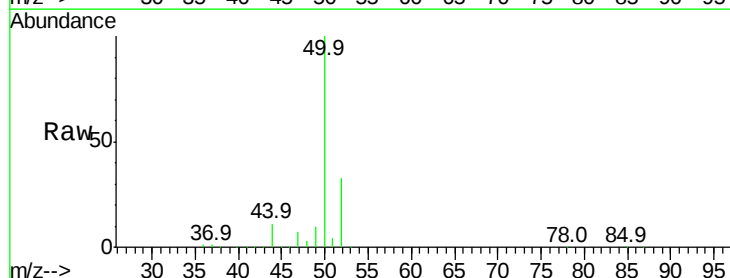
Acq: 17 Jul 2018 14:01

Tgt Ion: 50 Resp: 602004

Ion Ratio Lower Upper

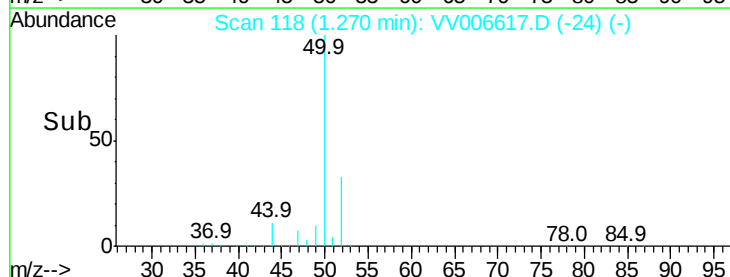
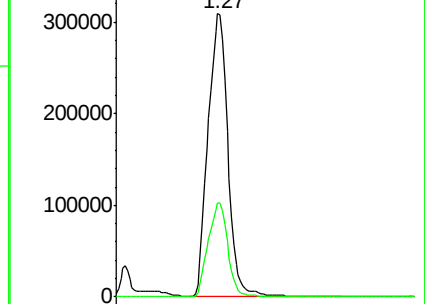
50 100

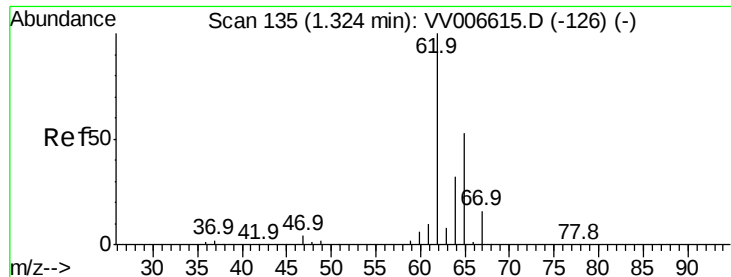
52 33.0 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 26.656 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

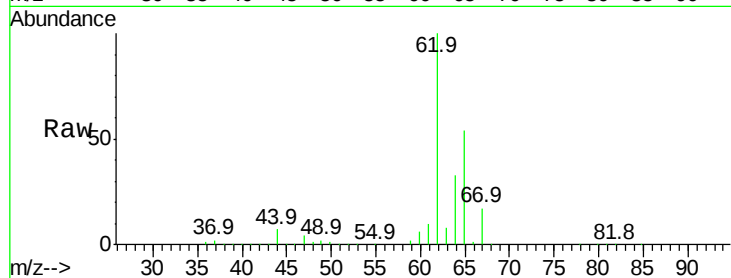
VSTD02079

Tgt Ion: 62 Resp: 599481

Ion Ratio Lower Upper

62 100

64 32.6 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

400000

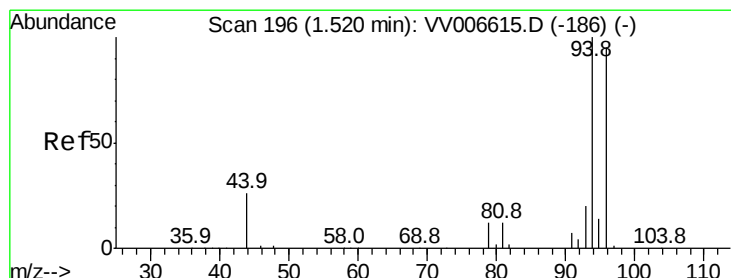
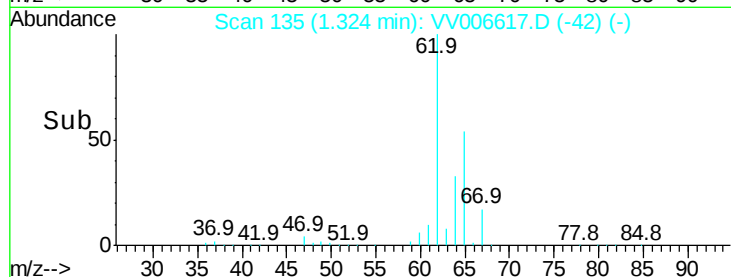
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 14.291 ug/L

RT: 1.51 min Scan# 194

Delta R.T. -0.01 min

Lab File: VV006617.D

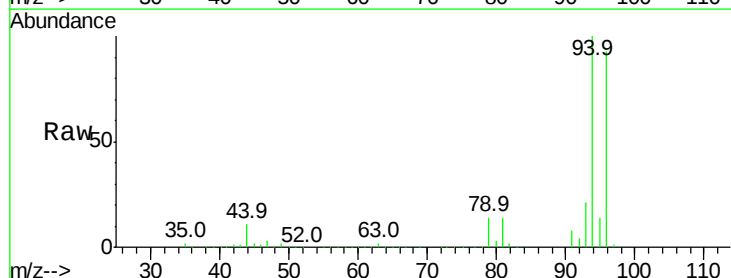
Acq: 17 Jul 2018 14:01

Tgt Ion: 94 Resp: 148978

Ion Ratio Lower Upper

94 100

96 93.0 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

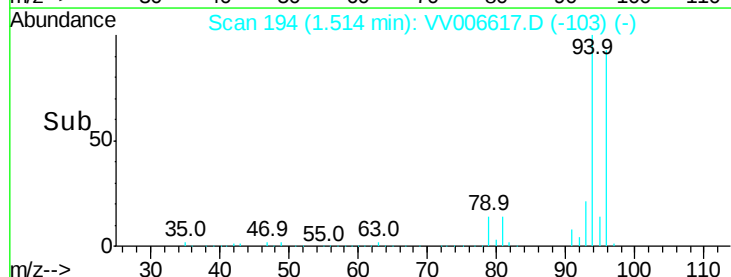
1.51

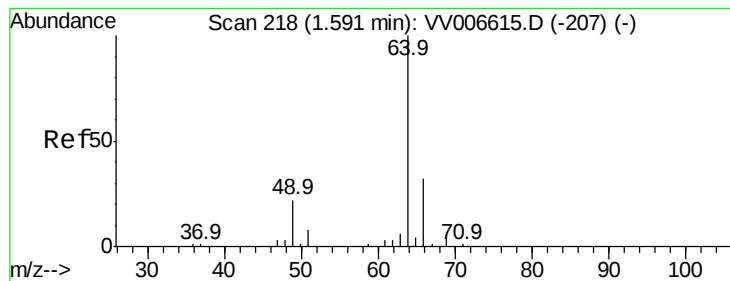
100000

50000

0

Time-->





#8

Chloroethane

Concen: 22.343 ug/L

RT: 1.58 min Scan# 216

Delta R.T. -0.01 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

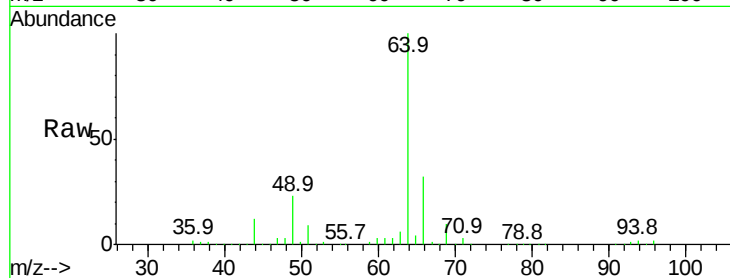
VSTD02079

Tgt Ion: 64 Resp: 305003

Ion Ratio Lower Upper

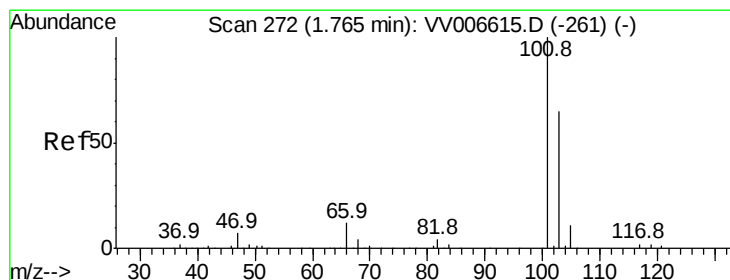
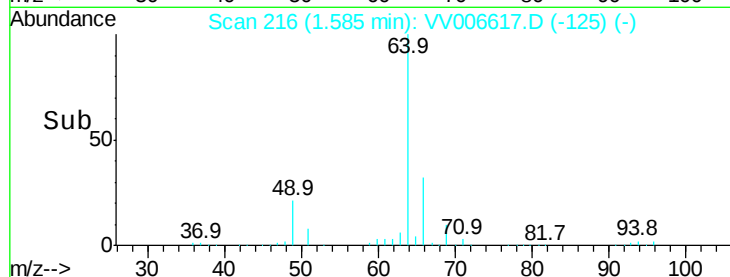
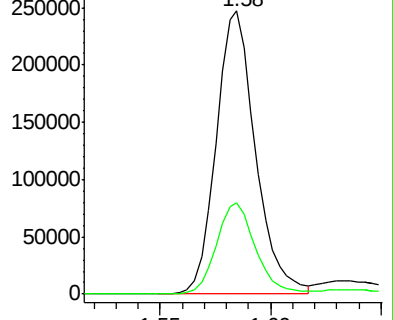
64 100

66 32.2 22.5 41.9



Abundance Ion 64.10 (63.80 to 64.80): VV006617.D (-207) (-)

Ion 66.05 (65.75 to 66.75): VV006617.D (-207) (-)



#9

Trichlorofluoromethane

Concen: 24.954 ug/L

RT: 1.76 min Scan# 271

Delta R.T. -0.00 min

Lab File: VV006617.D

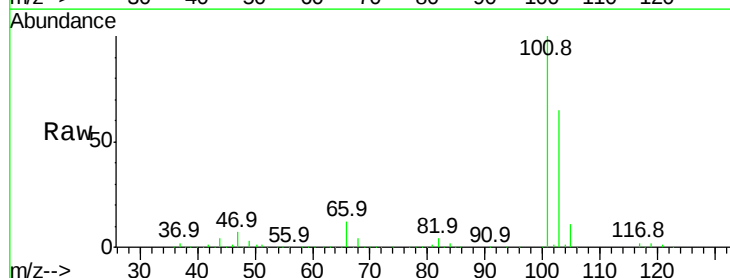
Acq: 17 Jul 2018 14:01

Tgt Ion: 101 Resp: 631507

Ion Ratio Lower Upper

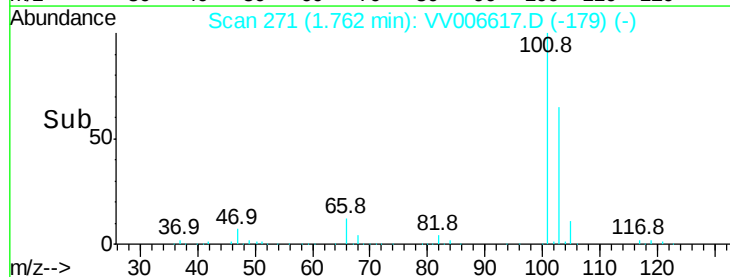
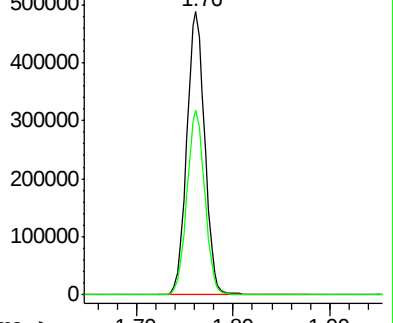
101 100

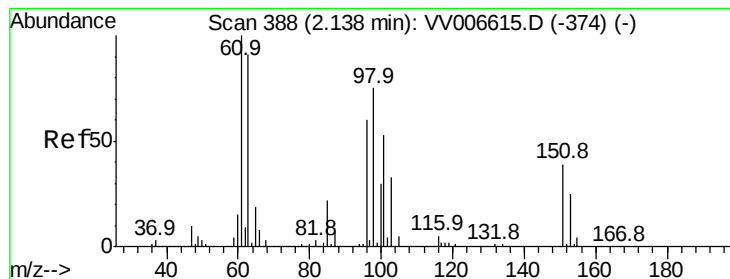
103 64.8 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV006617.D (-179) (-)

Ion 103.00 (102.70 to 103.70): VV006617.D (-179) (-)





#10

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

Concen: 24.212 ug/L

RT: 2.13 min Scan# 387

Delta R.T. -0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

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ClientSampleId :

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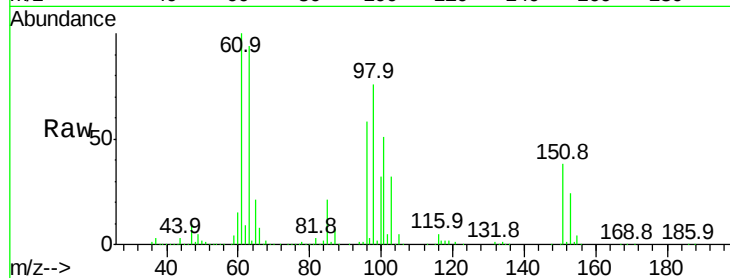
Tgt Ion:101 Resp: 378521

Ion Ratio Lower Upper

101 100

85 41.8 33.9 50.9

151 75.0 60.5 90.7

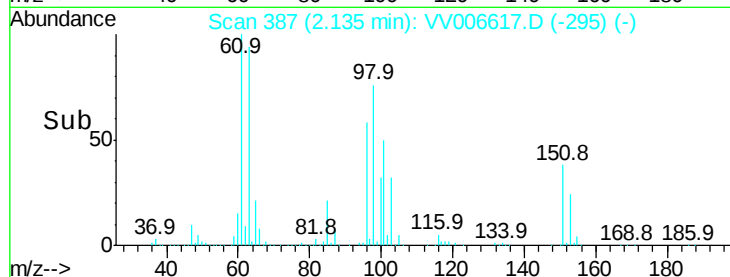


Abundance Ion 101.00 (100.70 to 101.70): VV006617.D (-295) (-)

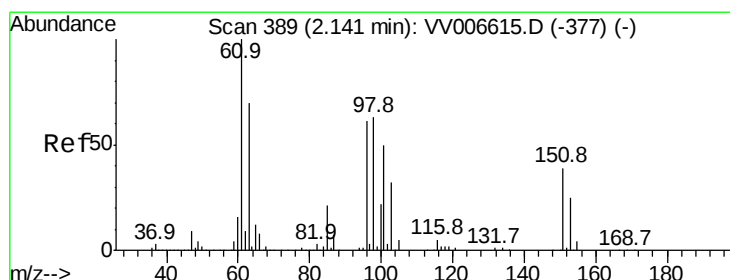
Ion 85.00 (84.70 to 85.70): VV006617.D (-295) (-)

Ion 151.00 (150.70 to 151.70): VV006617.D (-295) (-)

Time-->



Time-->



#12

1,1-Dichloroethene

Concen: 24.883 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

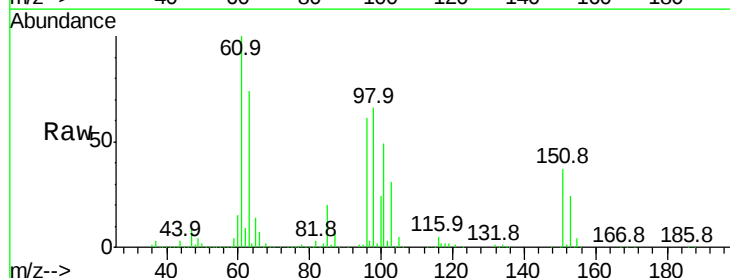
Tgt Ion: 96 Resp: 393588

Ion Ratio Lower Upper

96 100

61 164.6 114.9 213.5

63 121.2 81.9 152.1

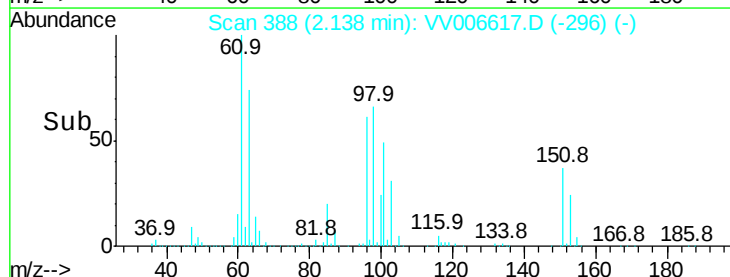


Abundance Ion 96.00 (95.70 to 96.70): VV006617.D (-296) (-)

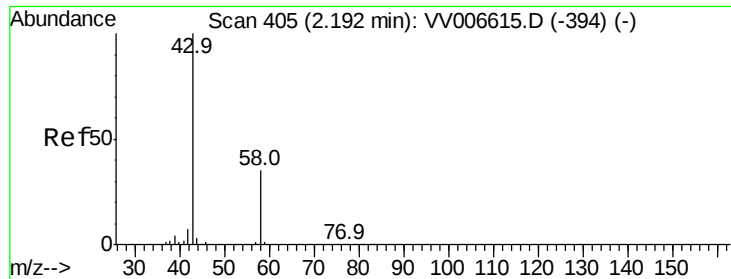
Ion 61.05 (60.75 to 61.75): VV006617.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VV006617.D (-296) (-)

Time-->



Time-->



#13

Acetone

Concen: 288.547 ug/L

RT: 2.19 min Scan# 405

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

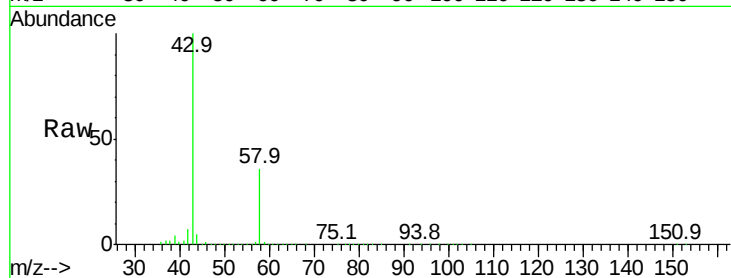
VSTD02079

Tgt Ion: 43 Resp: 636649

Ion Ratio Lower Upper

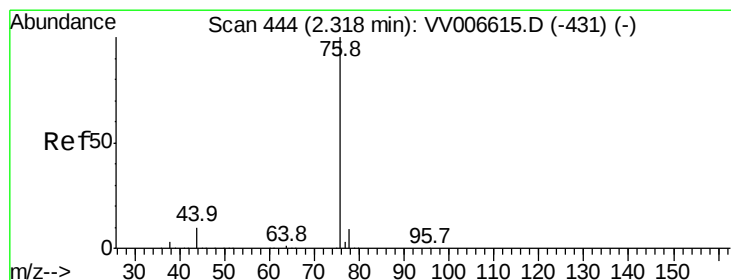
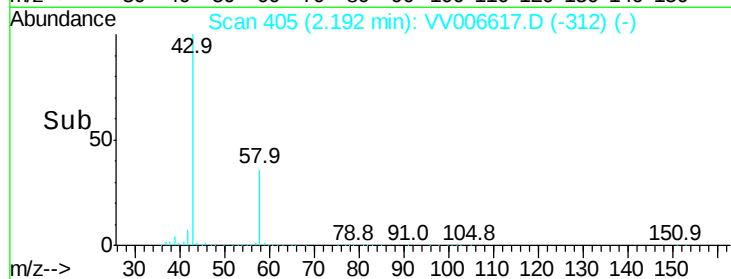
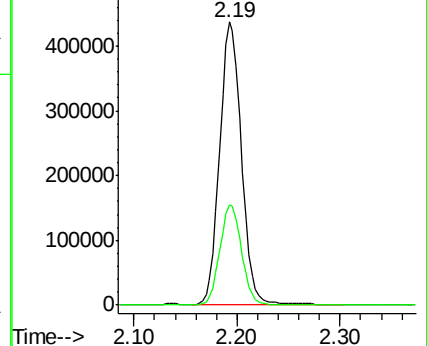
43 100

58 35.7 0.0 70.8



Abundance Ion 43.05 (42.75 to 43.75): VV006617.D (-312) (-)

Ion 58.05 (57.75 to 58.75): VV006617.D (-312) (-)



#14

Carbon disulfide

Concen: 26.931 ug/L

RT: 2.31 min Scan# 443

Delta R.T. -0.00 min

Lab File: VV006617.D

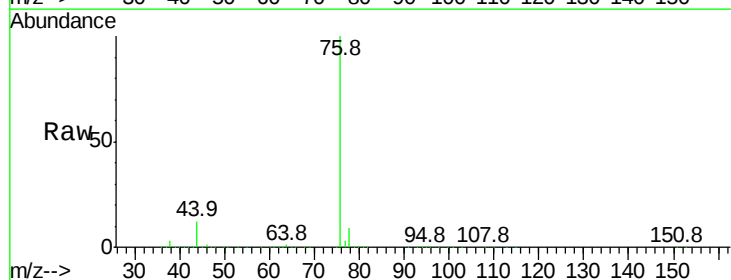
Acq: 17 Jul 2018 14:01

Tgt Ion: 76 Resp: 1274025

Ion Ratio Lower Upper

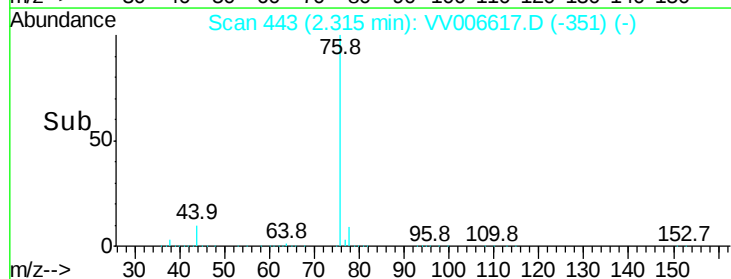
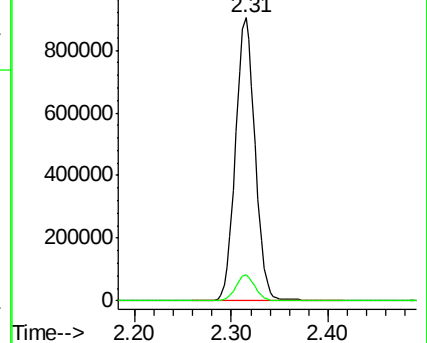
76 100

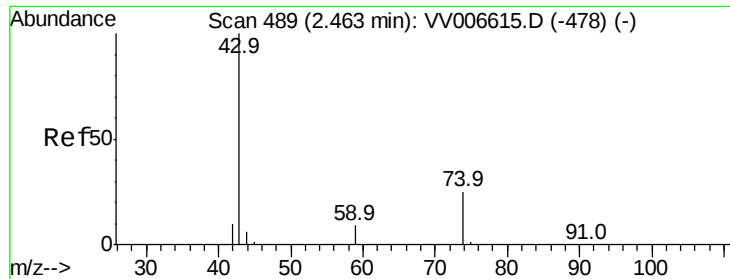
78 9.1 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV006617.D (-351) (-)

Ion 78.00 (77.70 to 78.70): VV006617.D (-351) (-)

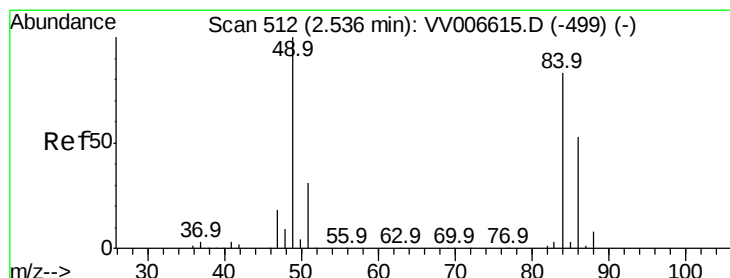
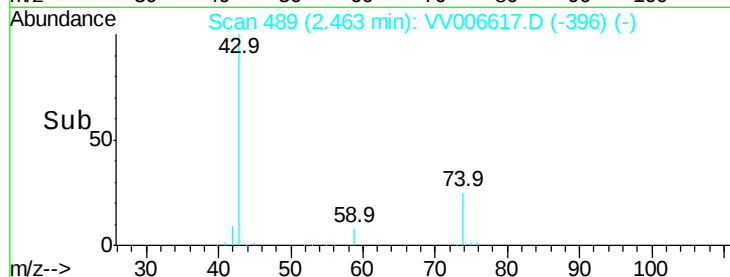
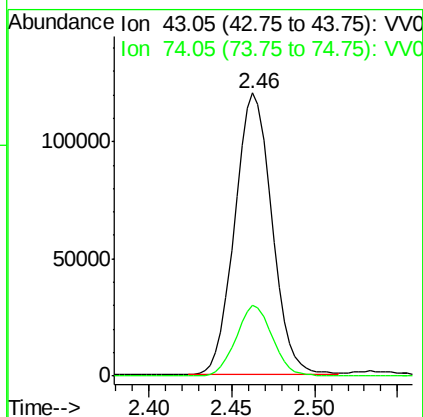
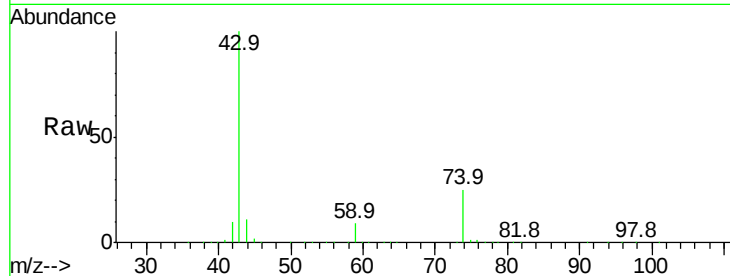




#15  
Methyl Acetate  
Concen: 28.872 ug/L  
RT: 2.46 min Scan# 489  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

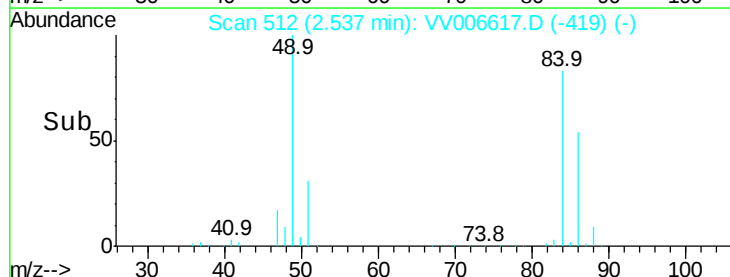
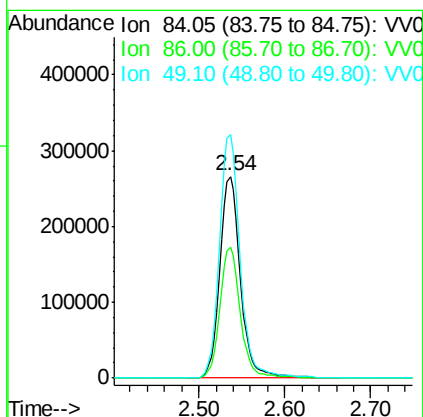
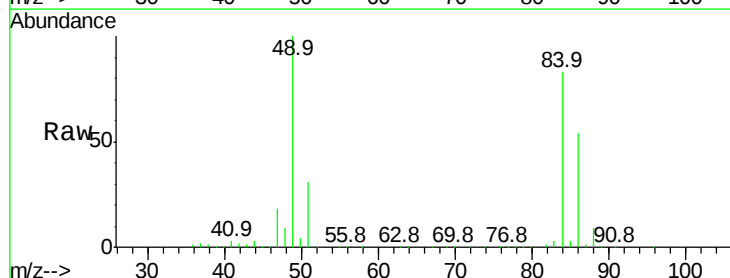
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD02079

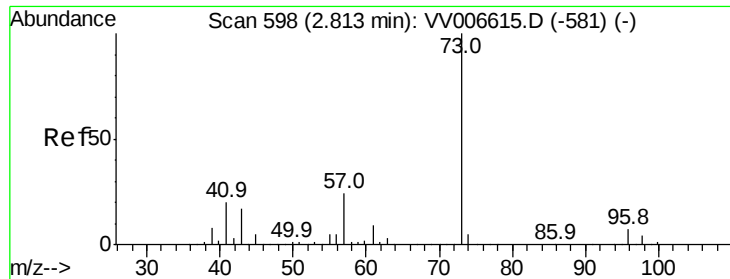
Tgt Ion: 43 Resp: 187523  
Ion Ratio Lower Upper  
43 100  
74 24.7 20.2 30.4



#16  
Methylene chloride  
Concen: 24.994 ug/L  
RT: 2.54 min Scan# 512  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Tgt Ion: 84 Resp: 445758  
Ion Ratio Lower Upper  
84 100  
86 64.7 45.2 84.0  
49 120.8 84.5 156.9

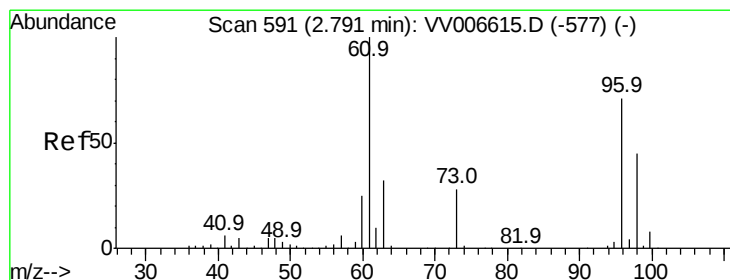
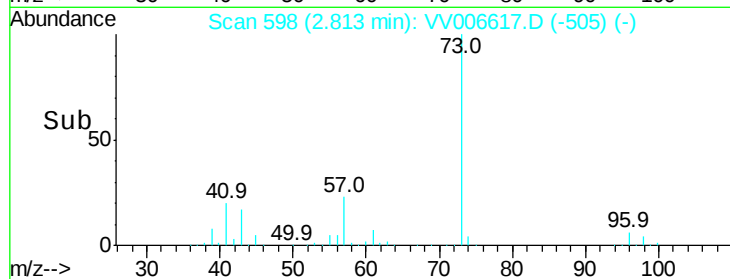
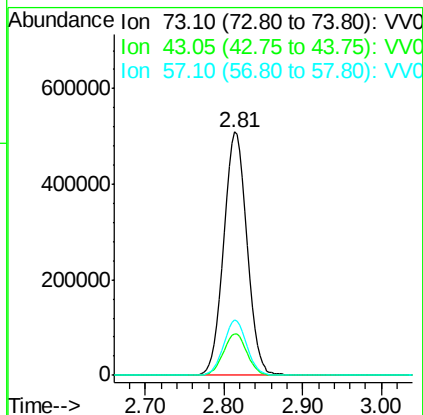
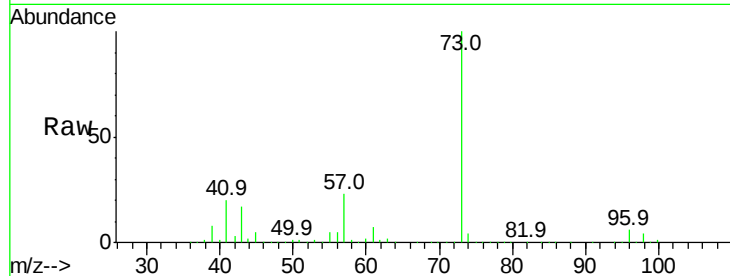




#17  
Methyl tert-butyl Ether  
Concen: 27.766 ug/L  
RT: 2.81 min Scan# 598  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

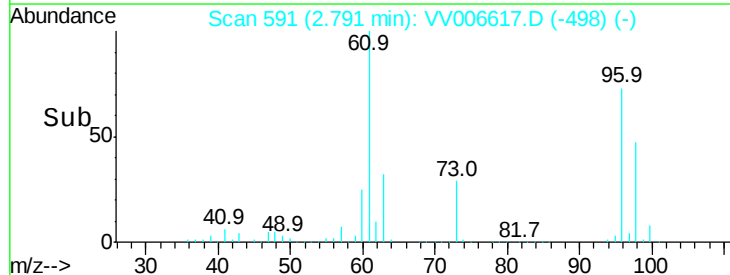
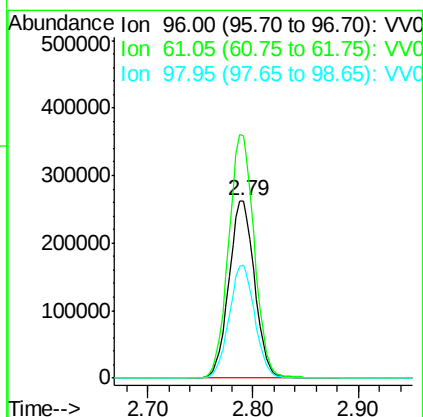
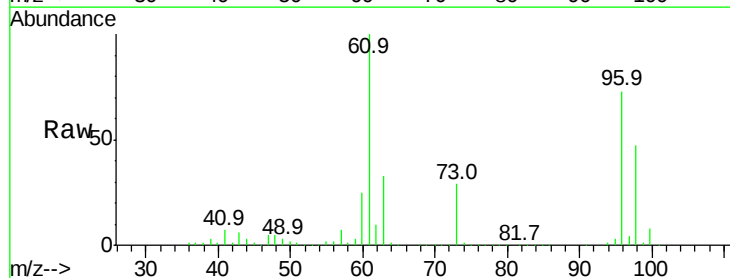
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

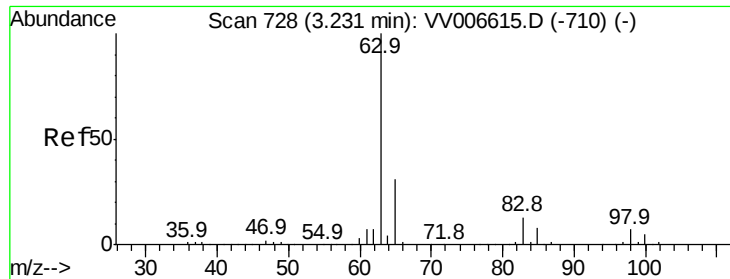
Tgt Ion: 73 Resp: 1040325  
Ion Ratio Lower Upper  
73 100  
43 17.1 13.7 20.5  
57 22.6 18.4 27.6



#18  
trans-1,2-Dichloroethene  
Concen: 25.619 ug/L  
RT: 2.79 min Scan# 591  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Tgt Ion: 96 Resp: 442084  
Ion Ratio Lower Upper  
96 100  
61 137.0 98.1 182.1  
98 64.0 44.4 82.4

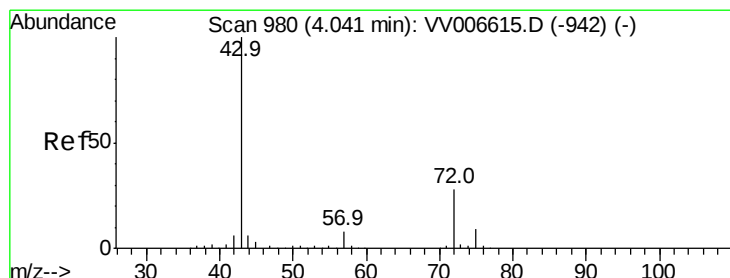
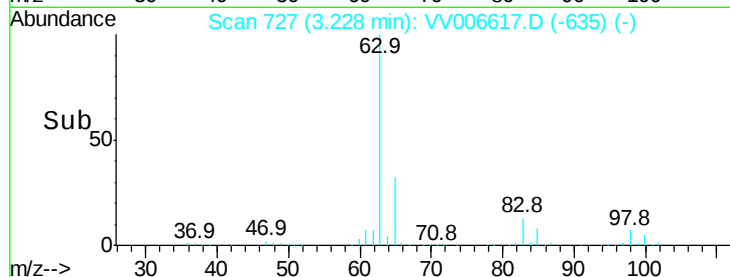
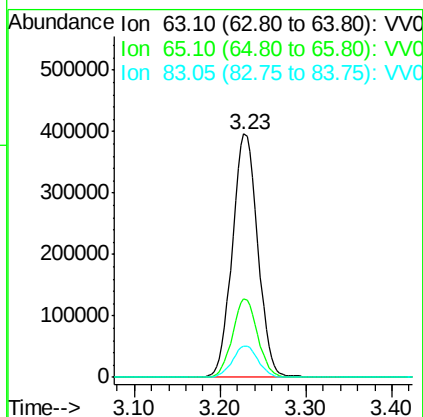
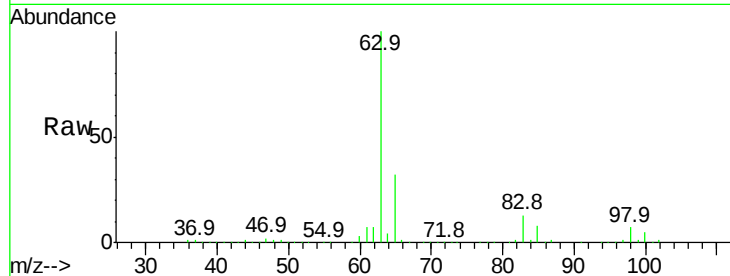




#19  
 1,1-Dichloroethane  
 Concen: 27.191 ug/L  
 RT: 3.23 min Scan# 727  
 Delta R.T. -0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

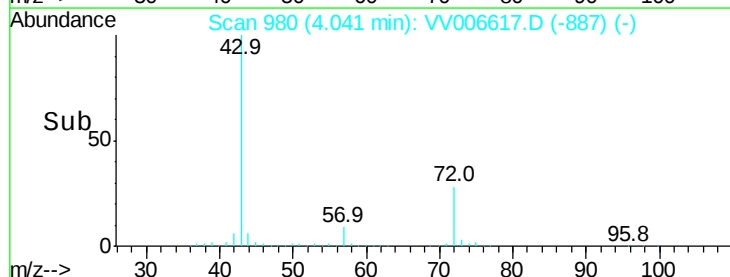
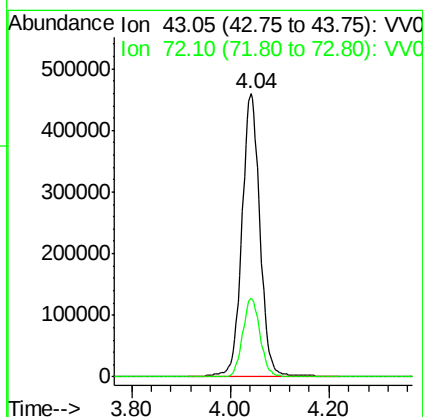
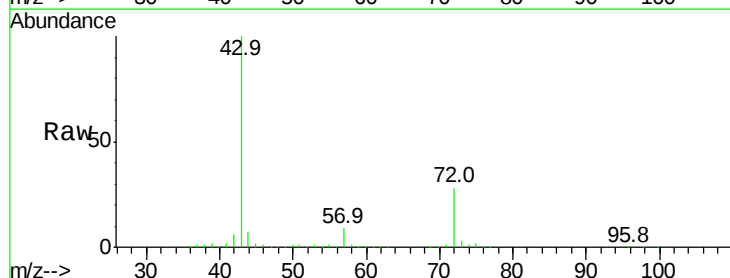
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02079

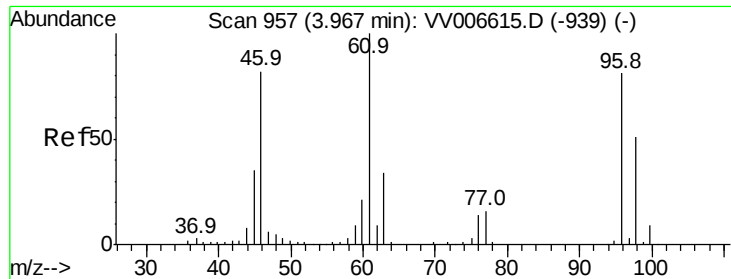
Tgt Ion: 63 Resp: 814301  
 Ion Ratio Lower Upper  
 63 100  
 65 32.3 21.7 40.3  
 83 13.0 9.3 17.3



#21  
 2-Butanone  
 Concen: 322.452 ug/L  
 RT: 4.04 min Scan# 980  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

Tgt Ion: 43 Resp: 1167333  
 Ion Ratio Lower Upper  
 43 100  
 72 26.5 13.4 40.1



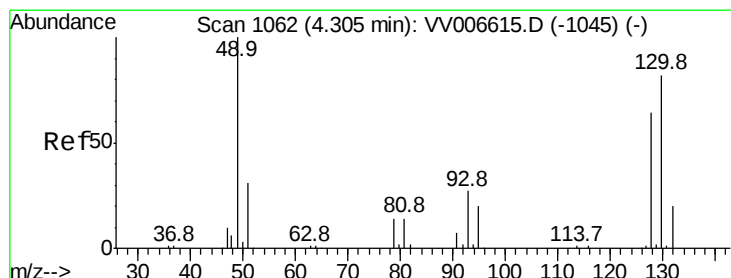
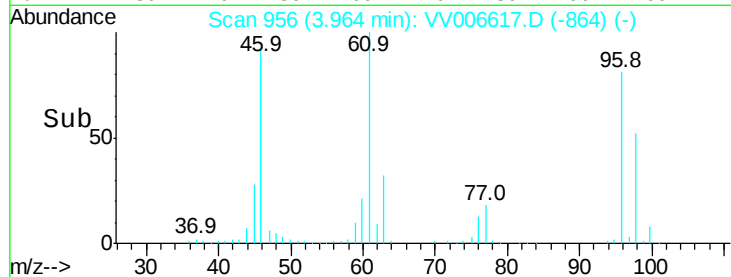
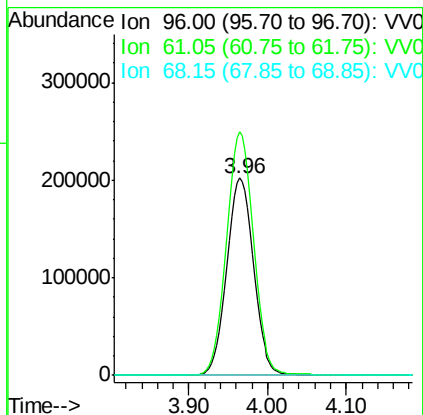
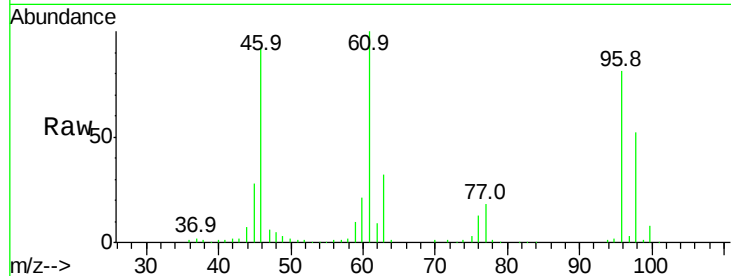


#22

cis-1,2-Dichloroethene  
Concen: 25.813 ug/L  
RT: 3.96 min Scan# 956  
Delta R.T. -0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

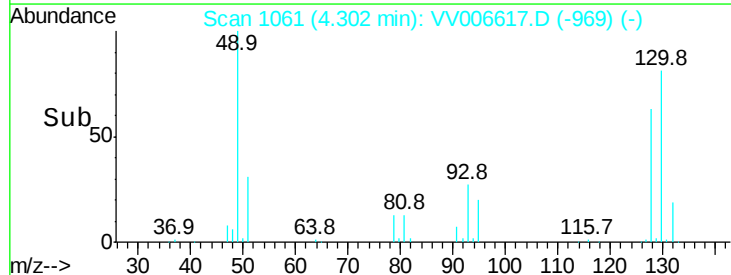
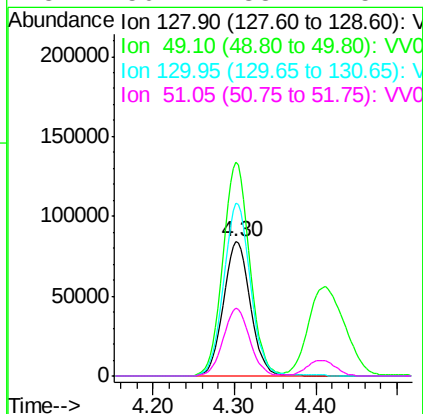
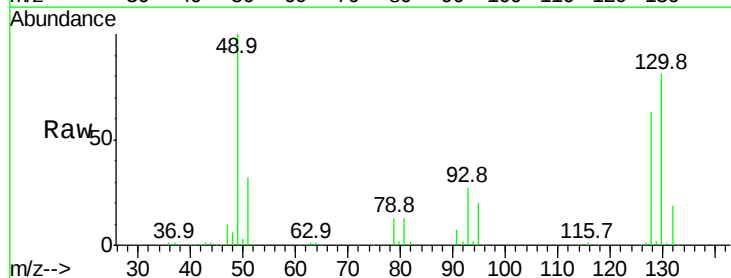
Tgt Ion: 96 Resp: 478552  
Ion Ratio Lower Upper  
96 100  
61 123.6 86.2 160.2  
68 0.0 0.0 0.0

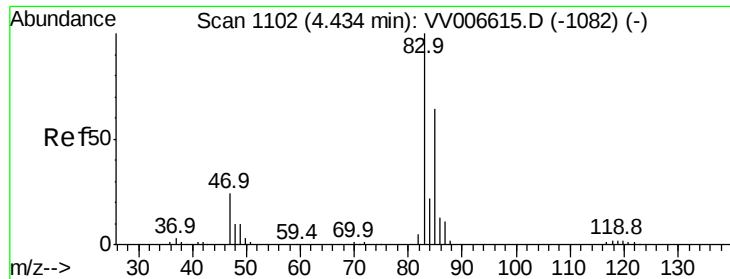


#23

Bromochloromethane  
Concen: 25.924 ug/L  
RT: 4.30 min Scan# 1061  
Delta R.T. -0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Tgt Ion: 128 Resp: 196865  
Ion Ratio Lower Upper  
128 100  
49 159.1 108.6 201.6  
130 128.4 89.4 166.0  
51 50.7 38.2 57.4





#25

Chloroform

Concen: 25.763 ug/L

RT: 4.43 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

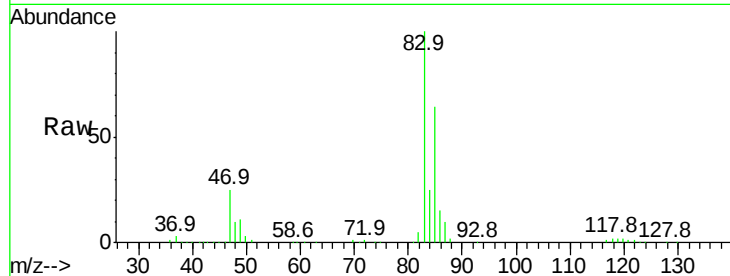
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Tgt Ion: 83 Resp: 767445

Ion Ratio Lower Upper

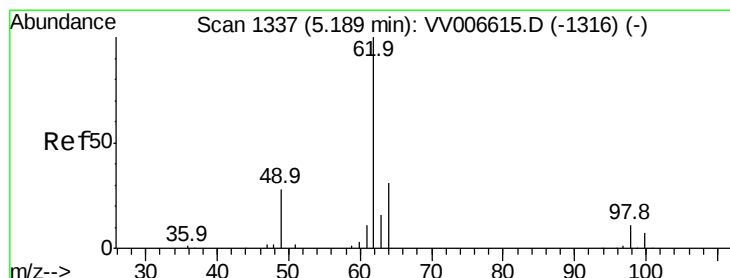
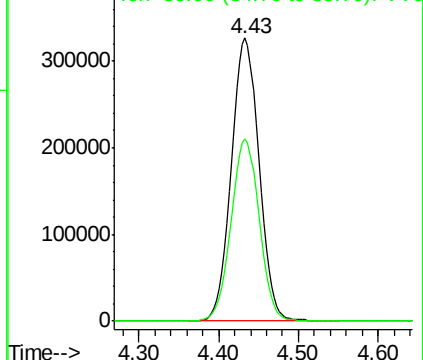
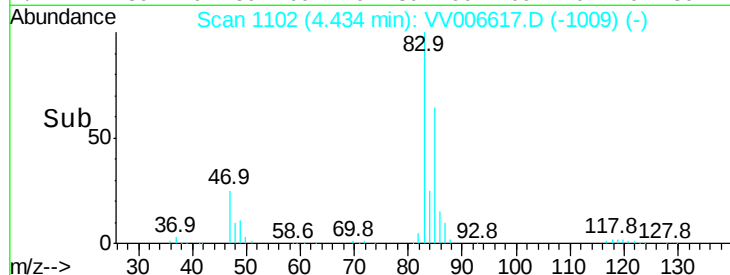
83 100

85 64.4 44.9 83.5



Abundance Ion 83.05 (82.75 to 83.75): VV006617.D (-1009) (-)

Ion 85.00 (84.70 to 85.70): VV006617.D (-1009) (-)



#27

1,2-Dichloroethane

Concen: 26.916 ug/L

RT: 5.19 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VV006617.D

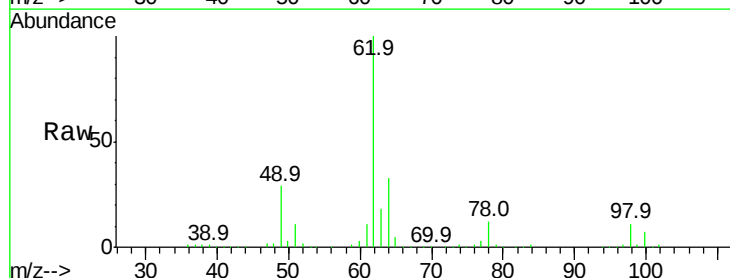
Acq: 17 Jul 2018 14:01

Tgt Ion: 62 Resp: 455337

Ion Ratio Lower Upper

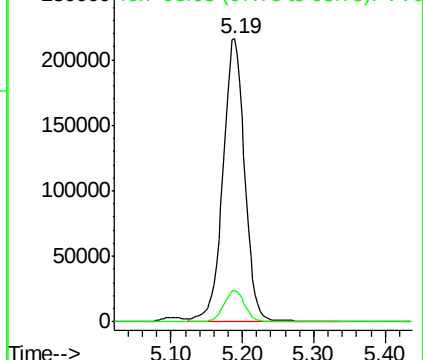
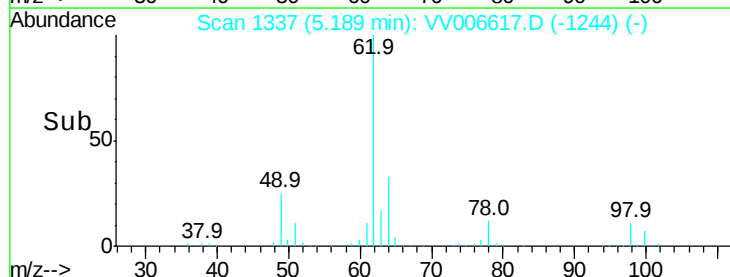
62 100

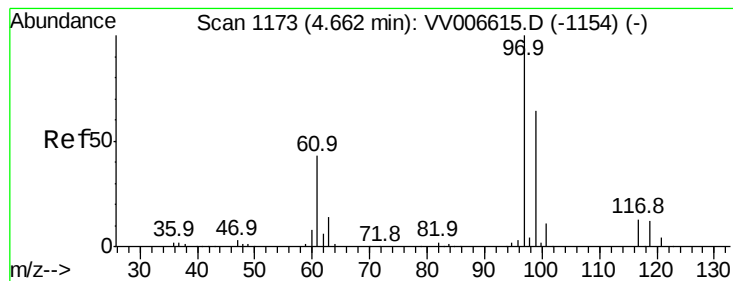
98 11.1 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VV006617.D (-1244) (-)

Ion 98.05 (97.75 to 98.75): VV006617.D (-1244) (-)





#29

1,1,1-Trichloroethane

Concen: 25.071 ug/L

RT: 4.66 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02079

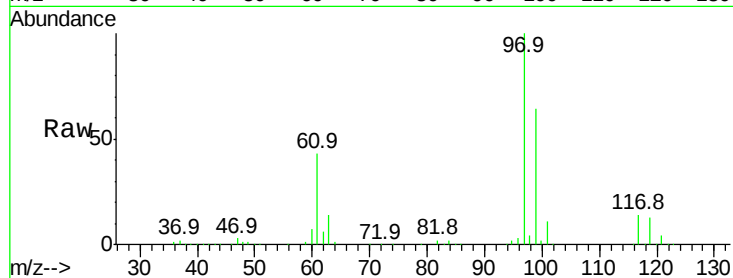
Tgt Ion: 97 Resp: 625594

Ion Ratio Lower Upper

97 100

99 64.3 51.6 77.4

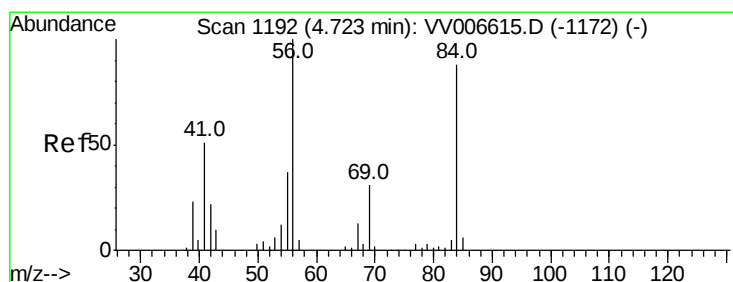
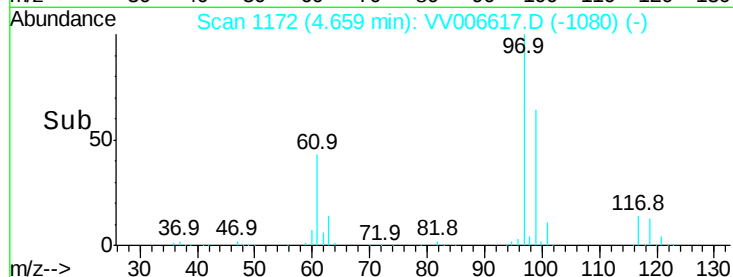
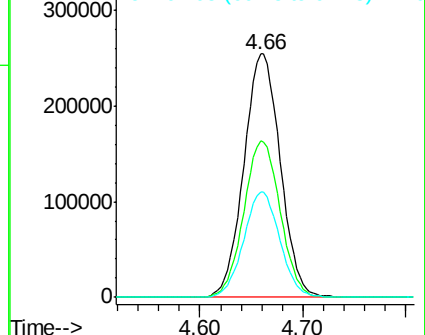
61 43.1 34.7 52.1



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: 25.021 ug/L

RT: 4.72 min Scan# 1192

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

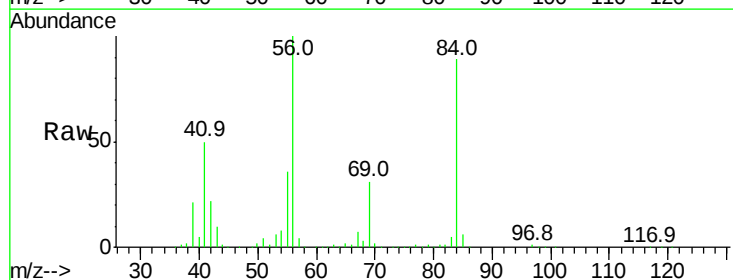
Tgt Ion: 56 Resp: 664399

Ion Ratio Lower Upper

56 100

69 31.1 24.9 37.3

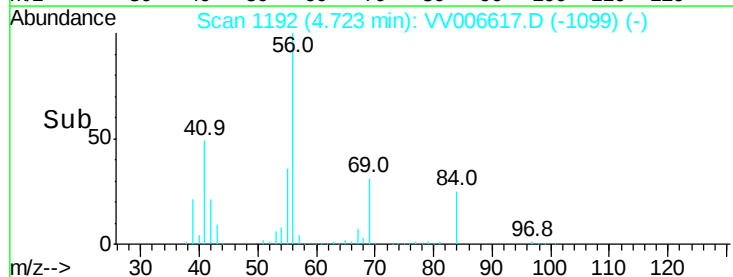
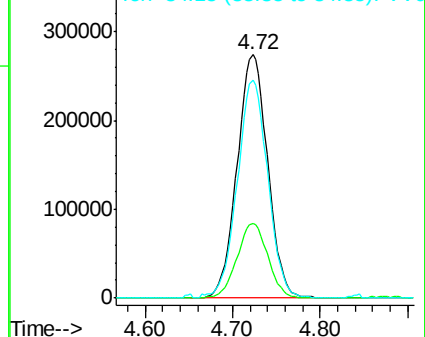
84 89.1 71.3 106.9

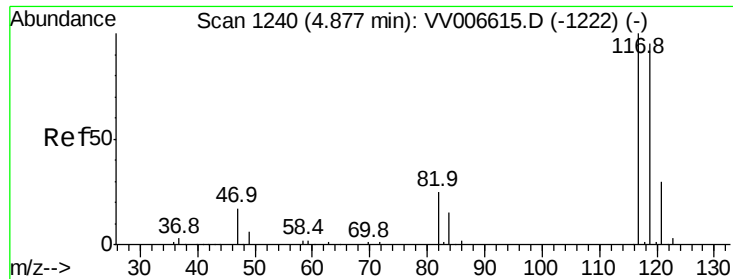


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 25.117 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

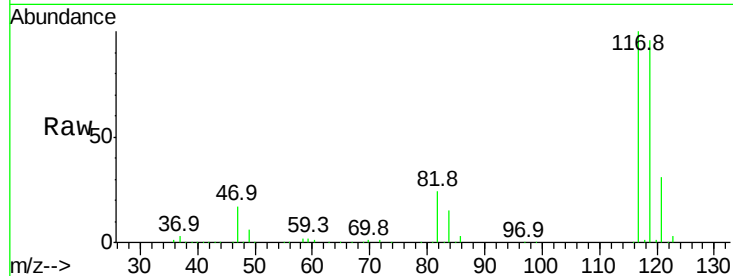
VSTD02079

Tgt Ion:117 Resp: 524337

Ion Ratio Lower Upper

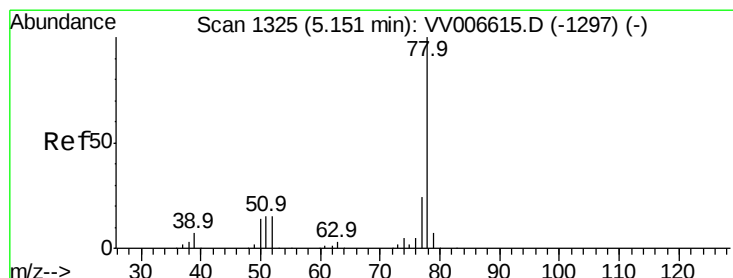
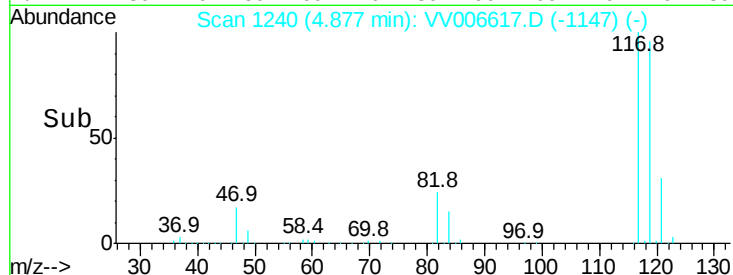
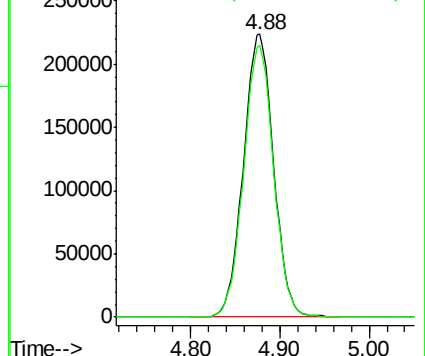
117 100

119 96.0 76.5 114.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 25.109 ug/L

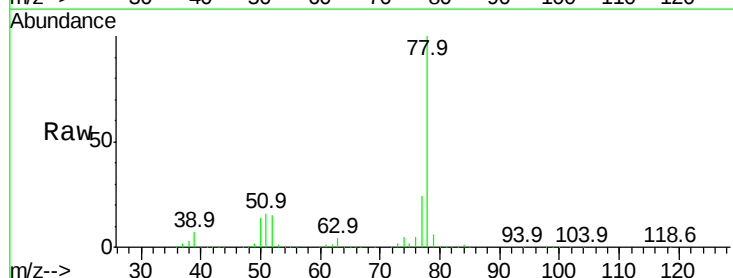
RT: 5.15 min Scan# 1325

Delta R.T. 0.00 min

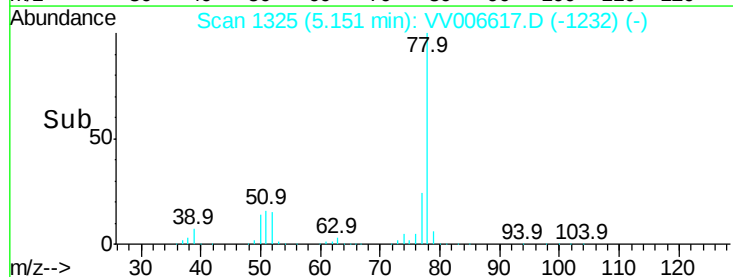
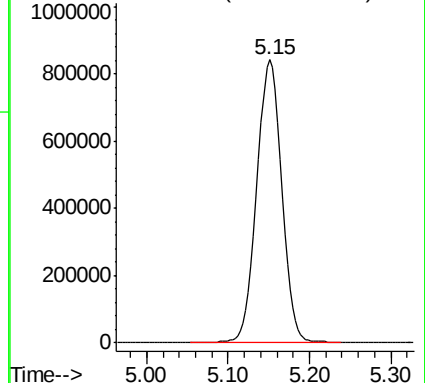
Lab File: VV006617.D

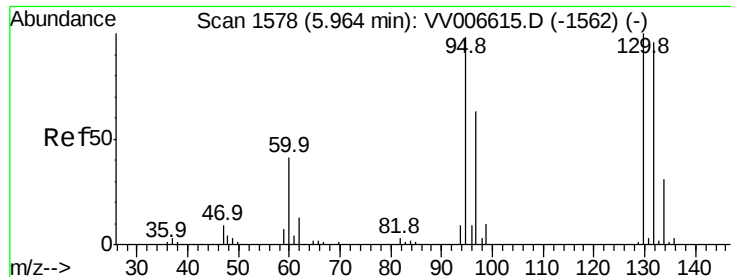
Acq: 17 Jul 2018 14:01

Tgt Ion: 78 Resp: 1784843



Abundance Ion 78.10 (77.80 to 78.80): VV0

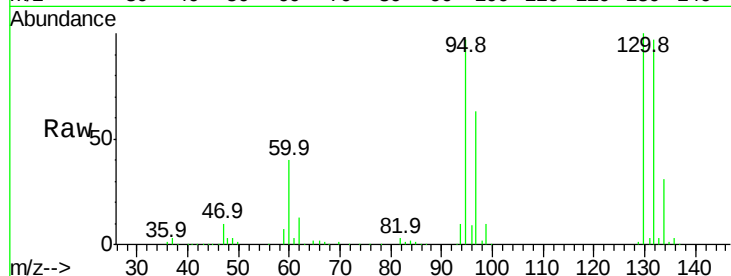




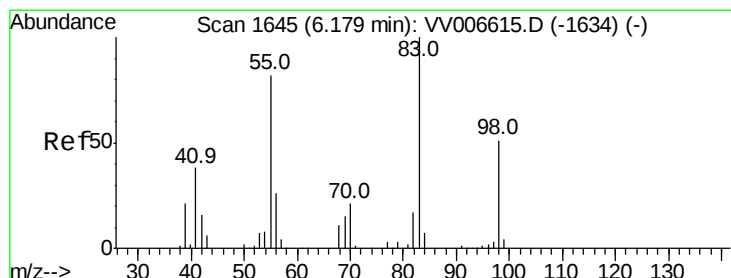
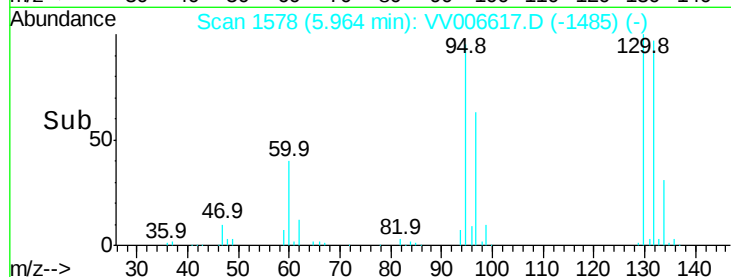
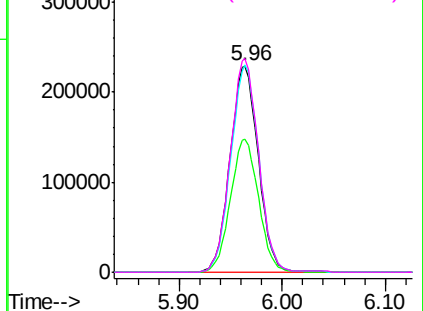
#34  
 Trichloroethene  
 Concen: 24.003 ug/L  
 RT: 5.96 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02079

Tgt Ion: 95 Resp: 437626  
 Ion Ratio Lower Upper  
 95 100  
 97 64.7 45.1 83.7  
 132 100.4 69.0 128.2  
 130 103.4 71.7 133.1

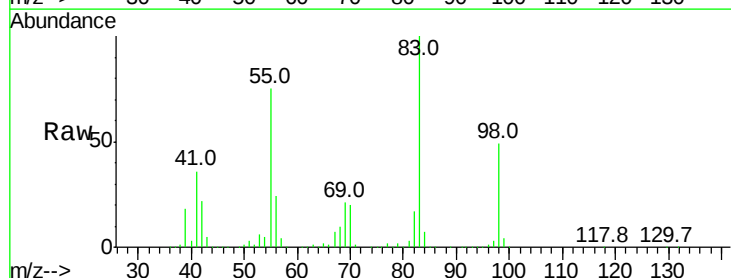


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

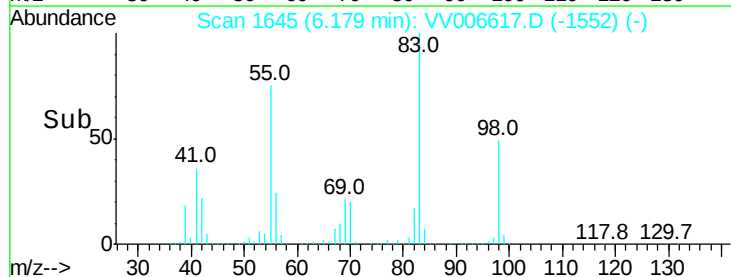
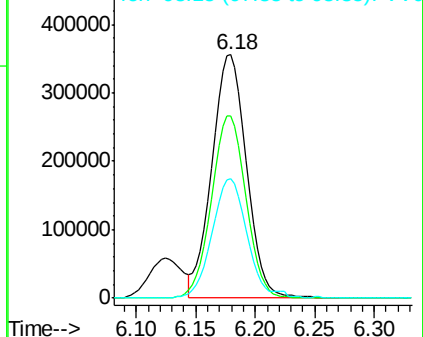


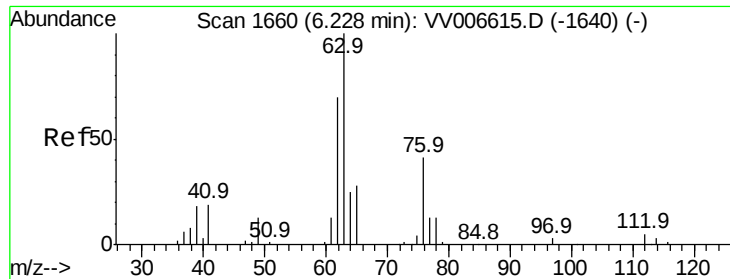
#35  
 Methylcyclohexane  
 Concen: 24.380 ug/L  
 RT: 6.18 min Scan# 1645  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

Tgt Ion: 83 Resp: 715818  
 Ion Ratio Lower Upper  
 83 100  
 55 75.2 60.7 91.1  
 98 49.9 39.1 58.7



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: 26.131 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. 0.00 min

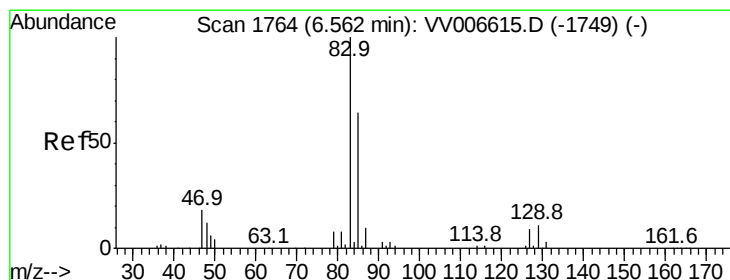
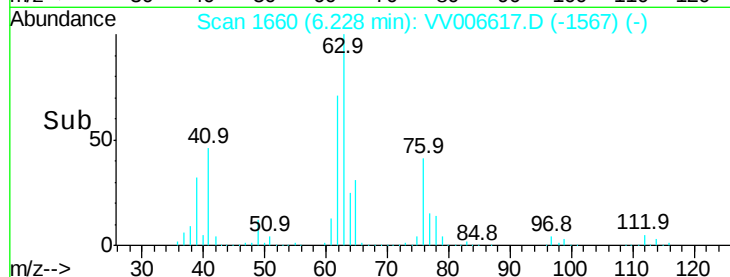
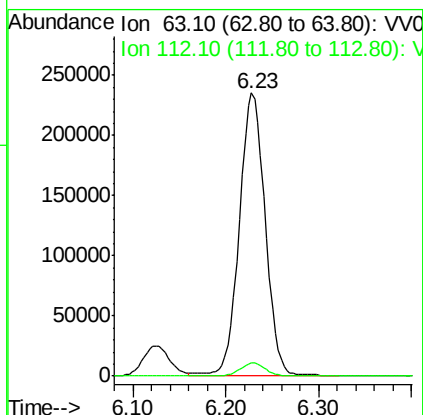
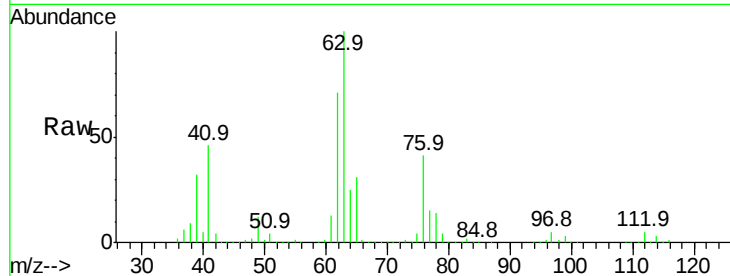
Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Tgt Ion: 63 Resp: 454319

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 112 | 4.6   | 3.7   | 5.5   |



#38

Bromodichloromethane

Concen: 27.089 ug/L

RT: 6.56 min Scan# 1764

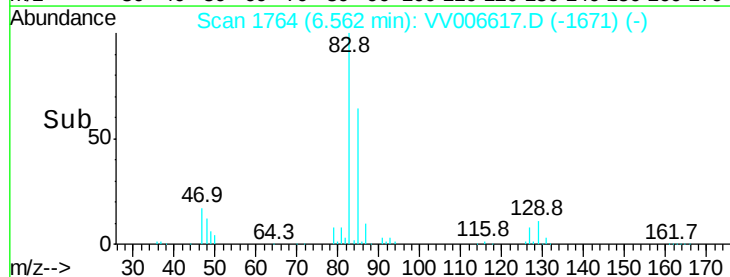
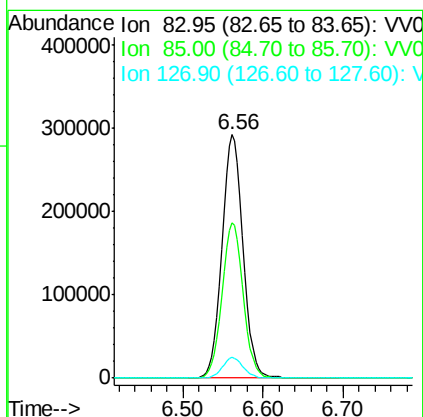
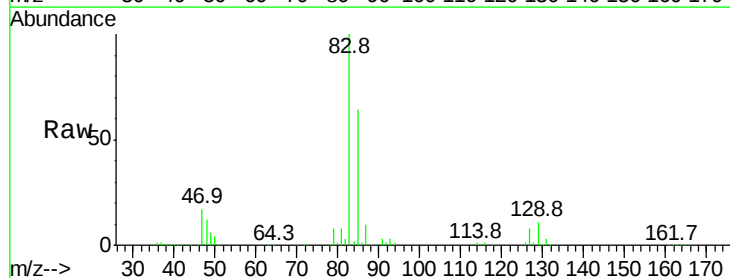
Delta R.T. 0.00 min

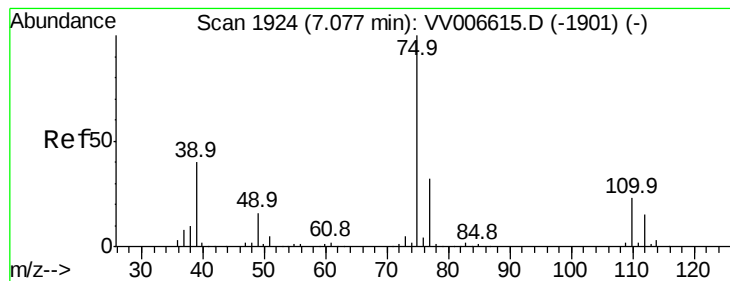
Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Tgt Ion: 83 Resp: 531059

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.8  | 44.7  | 83.1  |
| 127 | 8.3   | 6.8   | 10.2  |



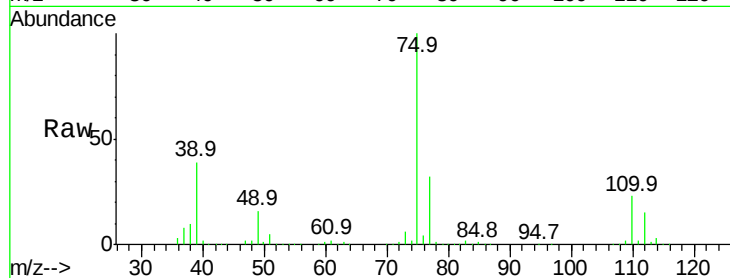


#39

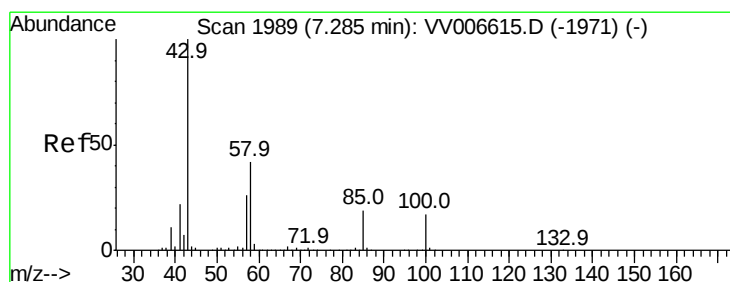
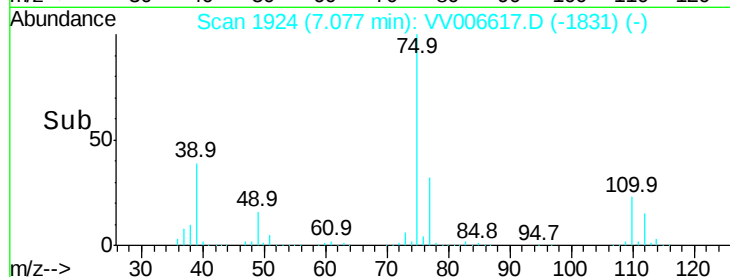
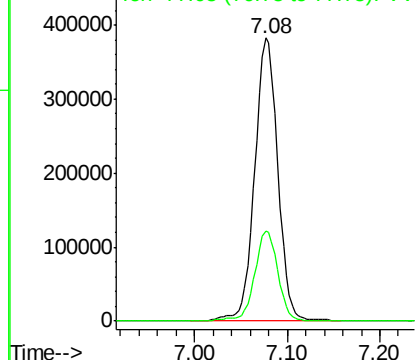
cis-1,3-Dichloropropene  
Concen: 28.421 ug/L  
RT: 7.08 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Tgt Ion: 75 Resp: 663253  
Ion Ratio Lower Upper  
75 100  
77 31.9 22.2 41.2



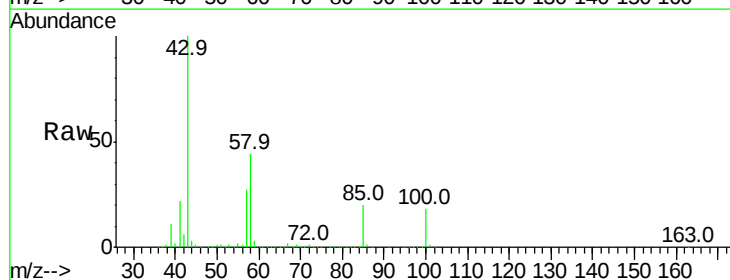
Abundance Ion 75.05 (74.75 to 75.75): VV0  
Ion 77.05 (76.75 to 77.75): VV0



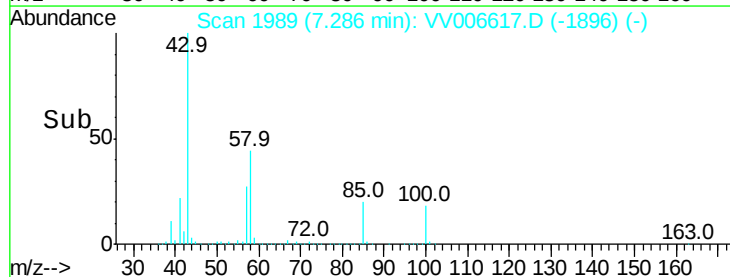
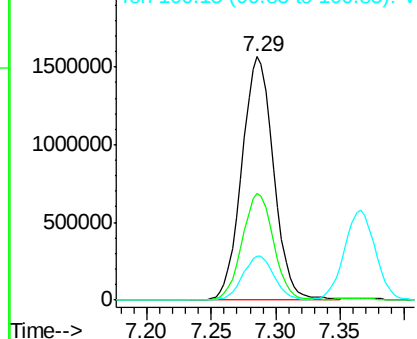
#40

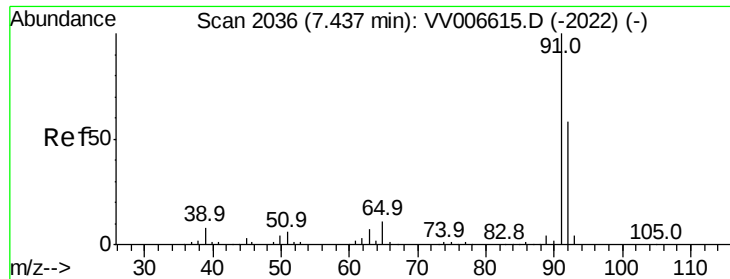
4-Methyl-2-pentanone  
Concen: 304.257 ug/L  
RT: 7.29 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Tgt Ion: 43 Resp: 2681366  
Ion Ratio Lower Upper  
43 100  
58 43.5 33.2 49.8  
100 17.9 13.5 20.3



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





#42

Toluene

Concen: 25.104 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

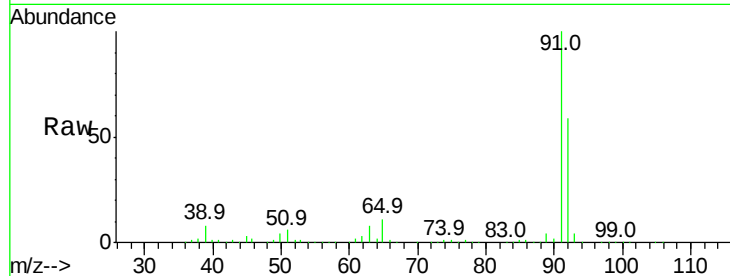
VSTD02079

Tgt Ion: 91 Resp: 1856152

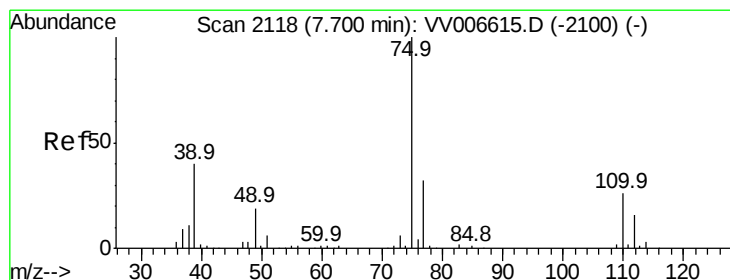
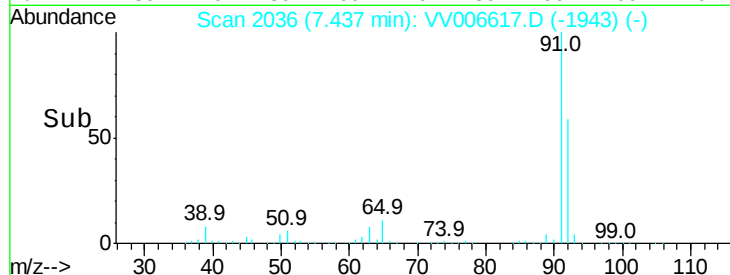
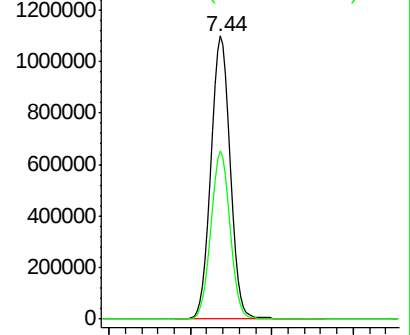
Ion Ratio Lower Upper

91 100

92 59.3 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV006617.D (-1943) (-)



#44

trans-1,3-Dichloropropene

Concen: 29.481 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV006617.D

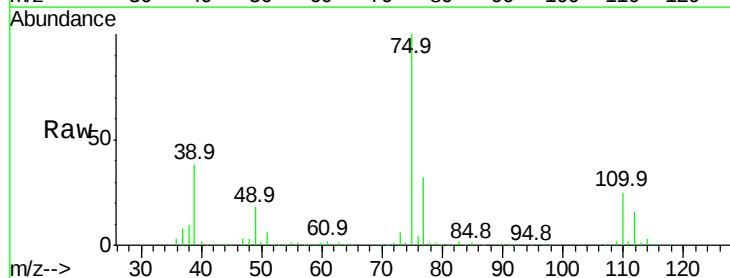
Acq: 17 Jul 2018 14:01

Tgt Ion: 75 Resp: 531081

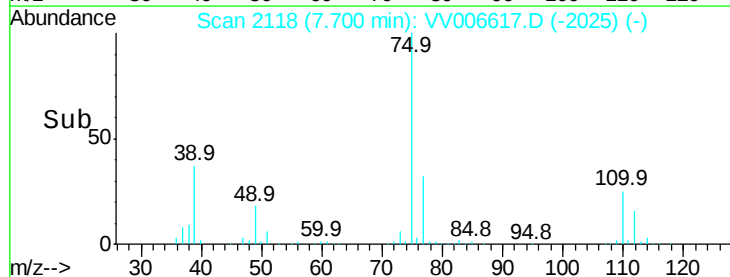
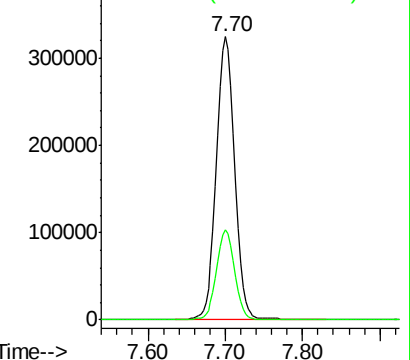
Ion Ratio Lower Upper

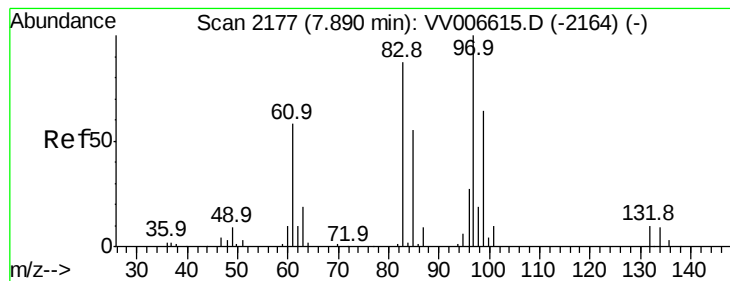
75 100

77 31.8 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VV006617.D (-2025) (-)





#45

1,1,2-Trichloroethane

Concen: 25.758 ug/L

RT: 7.89 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02079

Tgt Ion: 97 Resp: 313349

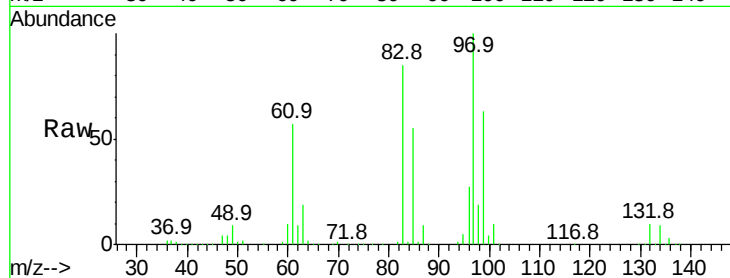
Ion Ratio Lower Upper

97 100

99 63.3 44.9 83.3

83 85.4 61.1 113.5

85 55.1 38.4 71.4



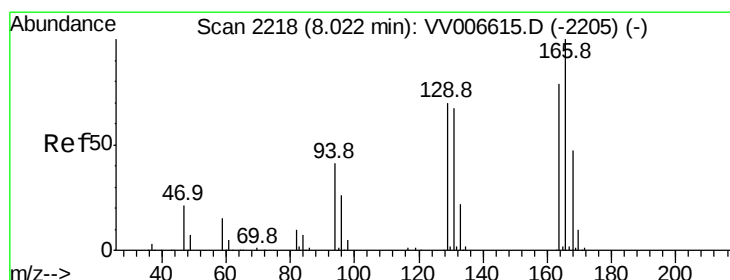
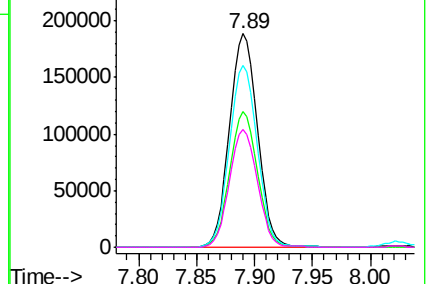
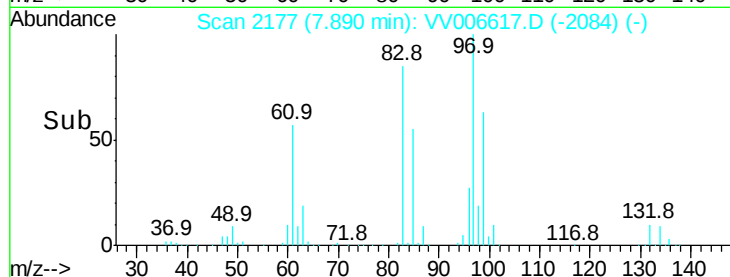
Abundance

Ion 96.95 (96.65 to 97.65): VV006617.D (-2164) (-)

Ion 99.05 (98.75 to 99.75): VV006617.D (-2164) (-)

Ion 82.95 (82.65 to 83.65): VV006617.D (-2164) (-)

Ion 85.00 (84.70 to 85.70): VV006617.D (-2164) (-)



#47

Tetrachloroethene

Concen: 22.921 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Tgt Ion: 164 Resp: 343654

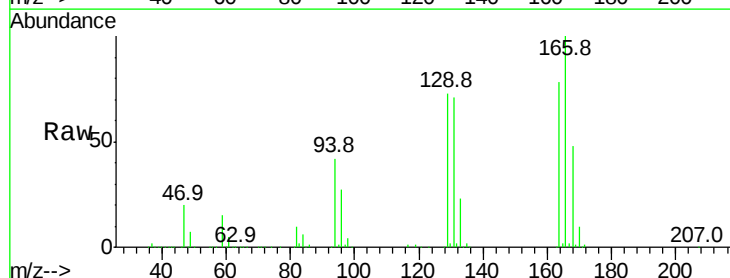
Ion Ratio Lower Upper

164 100

129 94.0 62.7 116.5

131 90.4 60.0 111.4

166 128.2 89.0 165.4



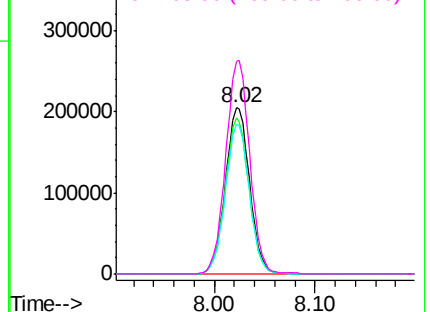
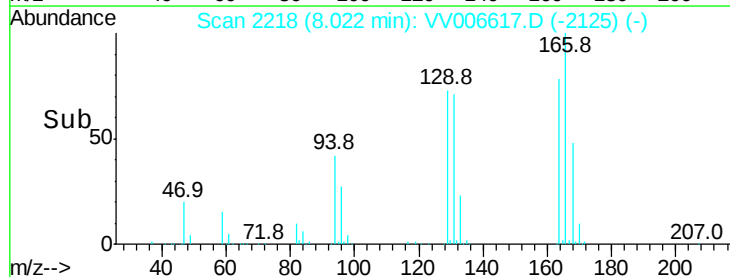
Abundance

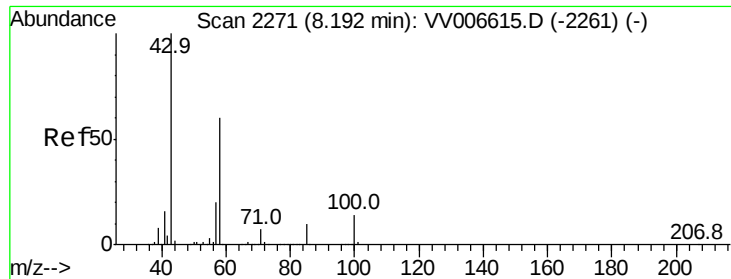
Ion 163.90 (163.60 to 164.60): VV006617.D (-2215) (-)

Ion 128.95 (128.65 to 129.65): VV006617.D (-2215) (-)

Ion 130.95 (130.65 to 131.65): VV006617.D (-2215) (-)

Ion 165.90 (165.60 to 166.60): VV006617.D (-2215) (-)



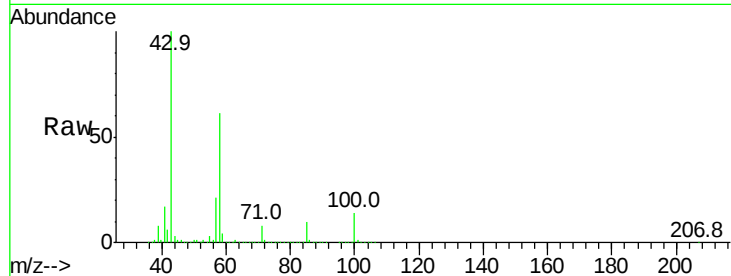


#48  
2-Hexanone  
Concen: 311.990 ug/L  
RT: 8.19 min Scan# 2271  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Tgt Ion: 43 Resp: 1949574

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 61.1  | 48.2  | 72.4  |
| 57  | 20.5  | 16.2  | 24.4  |
| 100 | 14.3  | 11.0  | 16.4  |

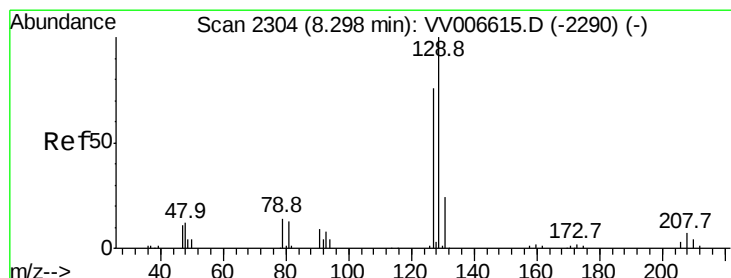
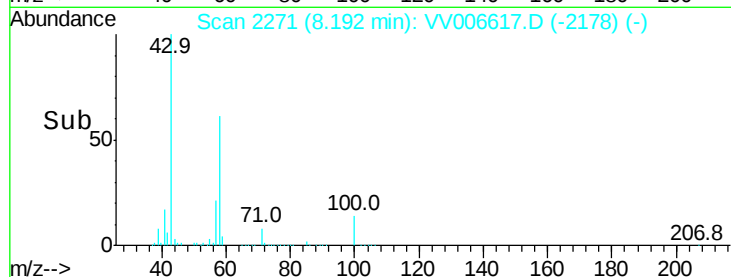
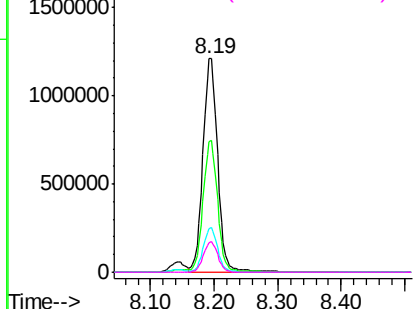


Abundance Ion 43.05 (42.75 to 43.75): VV006617.D (-2178) (-)

Ion 58.05 (57.75 to 58.75): VV006617.D (-2178) (-)

Ion 57.20 (56.90 to 57.90): VV006617.D (-2178) (-)

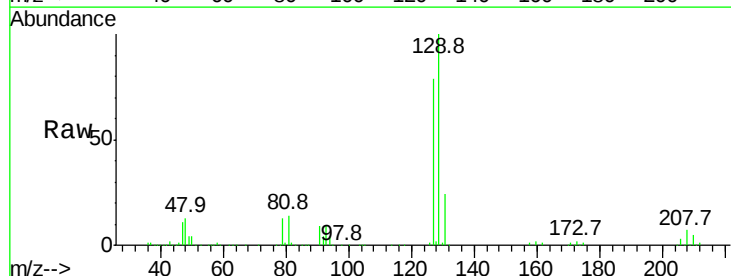
Ion 100.15 (99.85 to 100.85): VV006617.D (-2178) (-)



#49  
Dibromochloromethane  
Concen: 28.080 ug/L  
RT: 8.30 min Scan# 2304  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

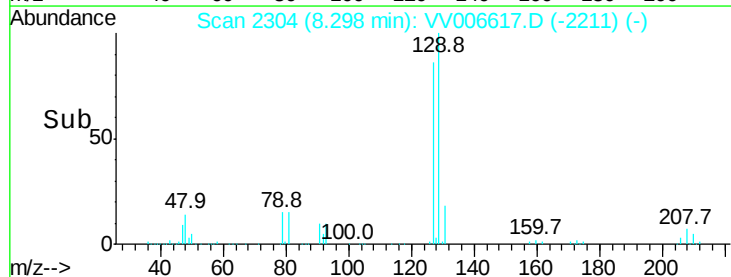
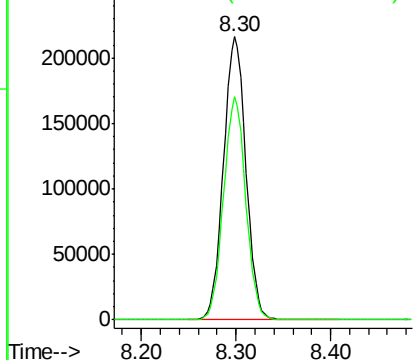
Tgt Ion: 129 Resp: 356244

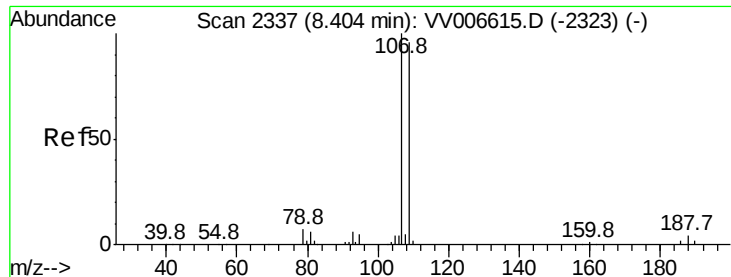
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.6  | 53.2  | 98.8  |



Abundance Ion 128.95 (128.65 to 129.65): VV006617.D (-2211) (-)

Ion 126.90 (126.60 to 127.60): VV006617.D (-2211) (-)

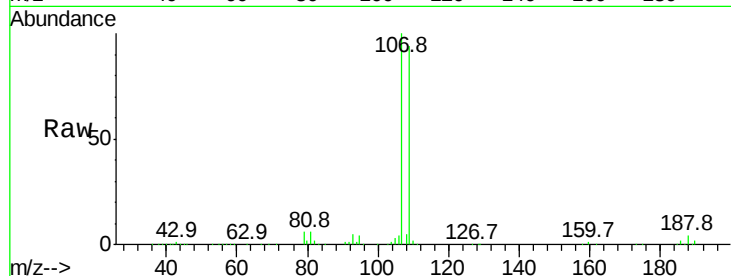




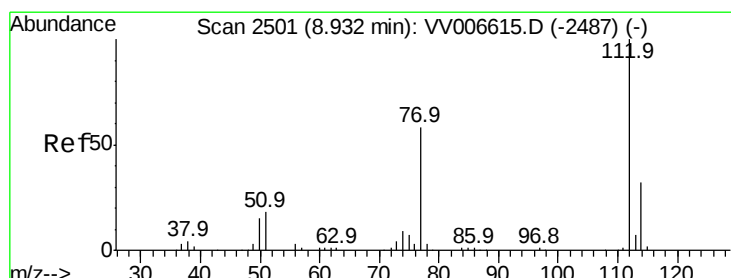
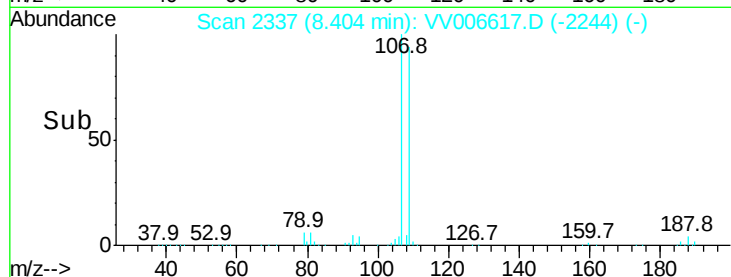
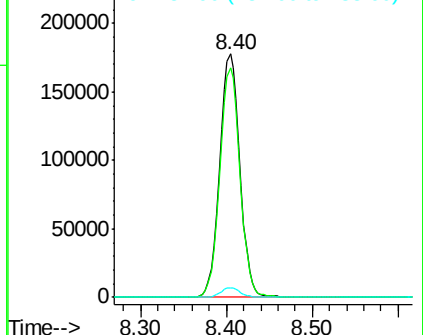
#50  
1,2-Dibromoethane  
Concen: 26.165 ug/L  
RT: 8.40 min Scan# 2337  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02079

Tgt Ion:107 Resp: 289755  
Ion Ratio Lower Upper  
107 100  
109 94.2 67.1 124.5  
188 4.1 3.3 4.9

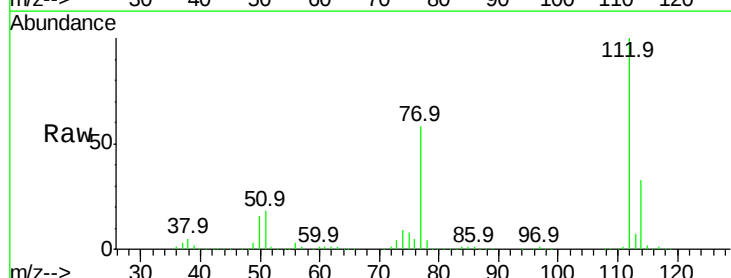


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

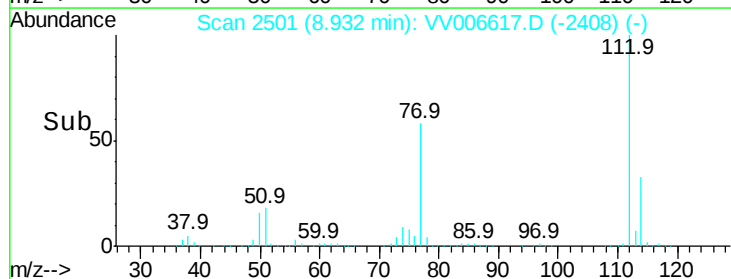
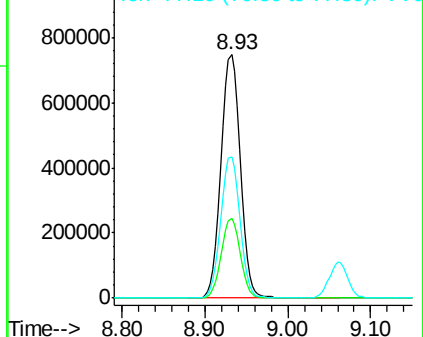


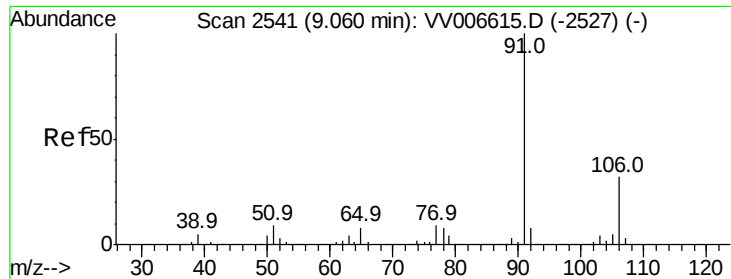
#51  
Chlorobenzene  
Concen: 24.817 ug/L  
RT: 8.93 min Scan# 2501  
Delta R.T. 0.00 min  
Lab File: VV006617.D  
Acq: 17 Jul 2018 14:01

Tgt Ion:112 Resp: 1200390  
Ion Ratio Lower Upper  
112 100  
114 32.6 22.6 42.0  
77 57.8 46.2 69.4



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: 25.897 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

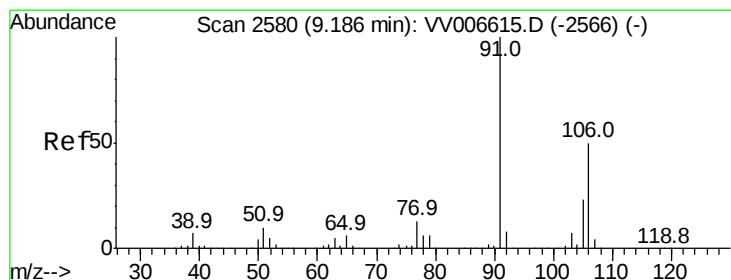
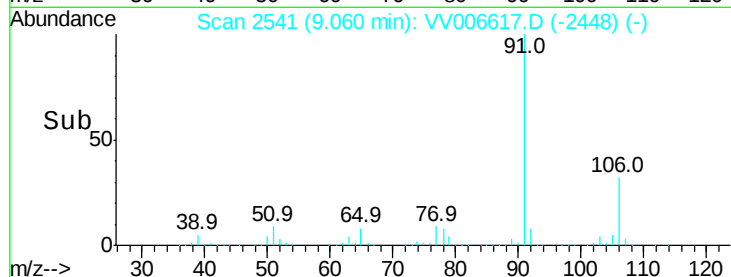
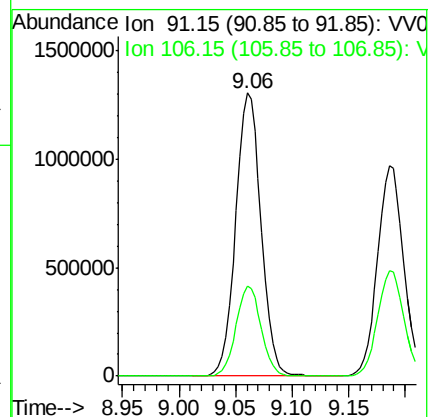
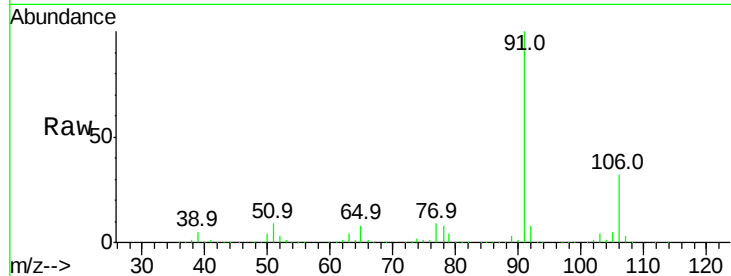
VSTD02079

Tgt Ion: 91 Resp: 2034400

Ion Ratio Lower Upper

91 100

106 31.7 22.2 41.2



#53

m,p-xylene

Concen: 26.030 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. 0.00 min

Lab File: VV006617.D

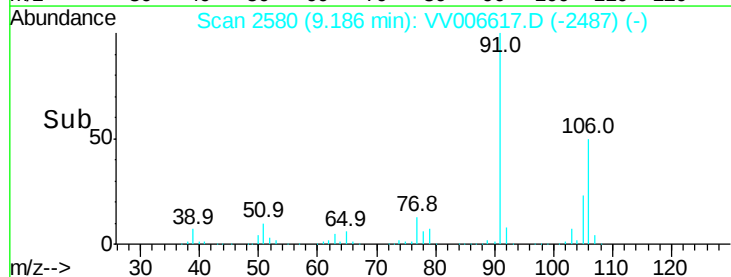
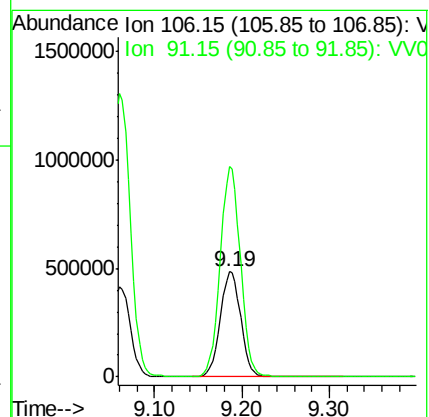
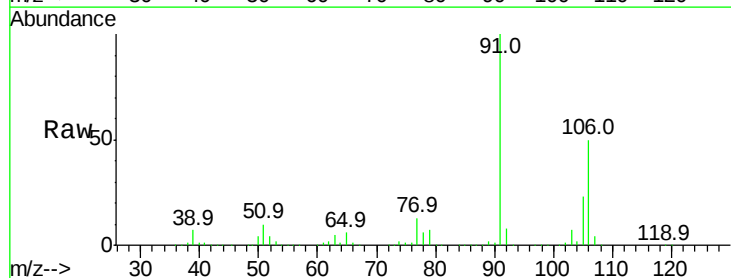
Acq: 17 Jul 2018 14:01

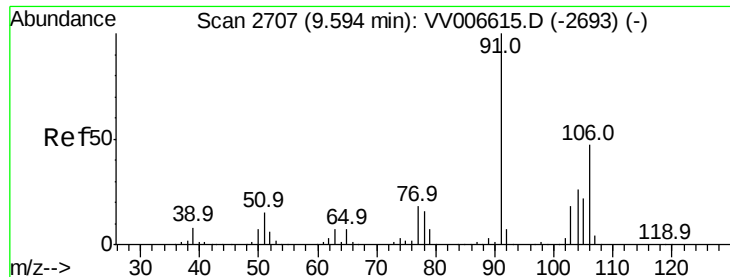
Tgt Ion: 106 Resp: 787815

Ion Ratio Lower Upper

106 100

91 200.1 140.3 260.5





#54

o-xylene

Concen: 26.438 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

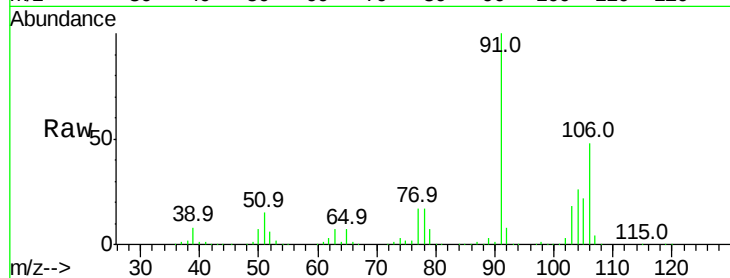
VSTD02079

Tgt Ion:106 Resp: 783235

Ion Ratio Lower Upper

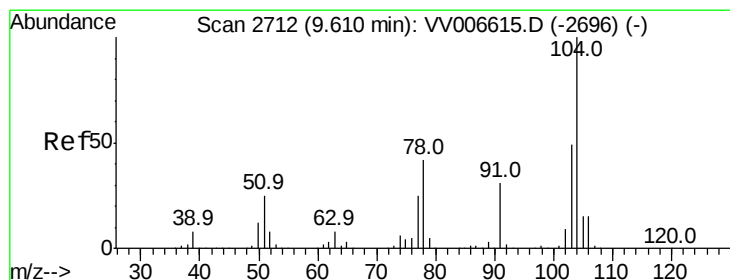
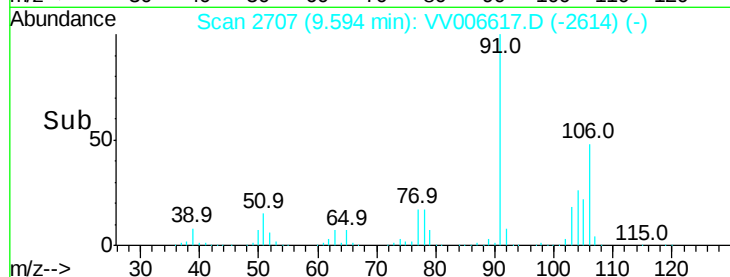
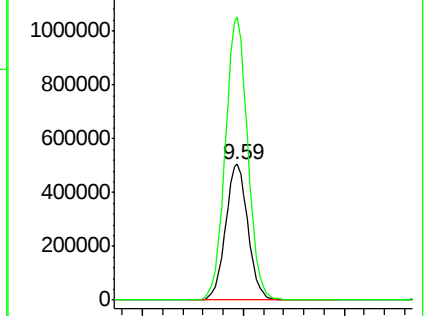
106 100

91 208.3 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 27.366 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. 0.00 min

Lab File: VV006617.D

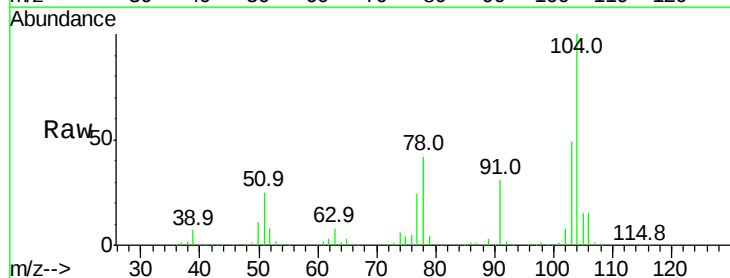
Acq: 17 Jul 2018 14:01

Tgt Ion:104 Resp: 1363215

Ion Ratio Lower Upper

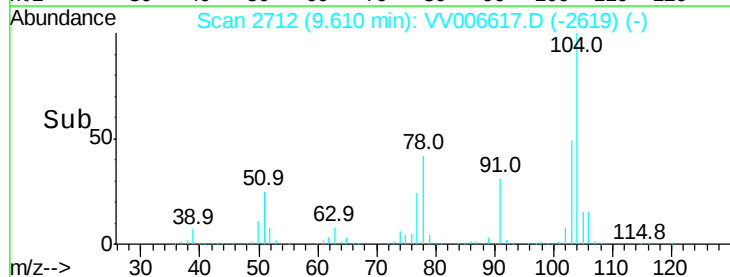
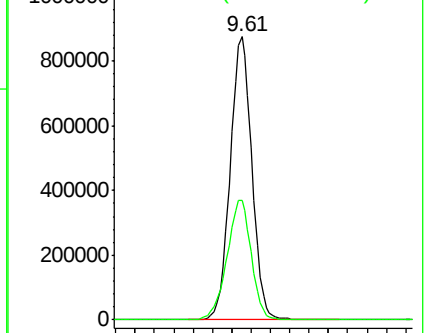
104 100

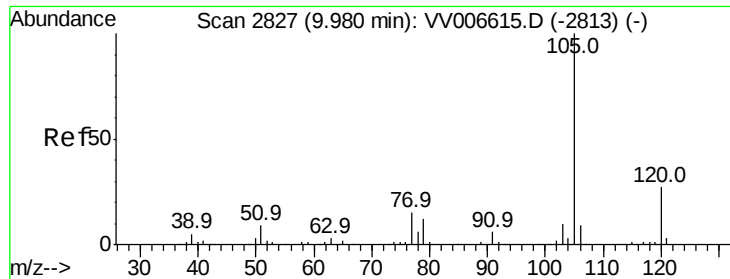
78 42.1 29.6 55.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 26.228 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02079

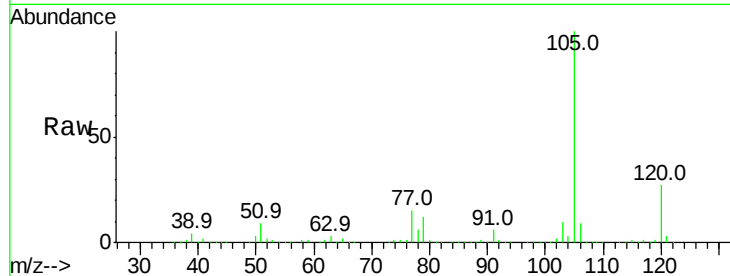
Tgt Ion:105 Resp: 1992734

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

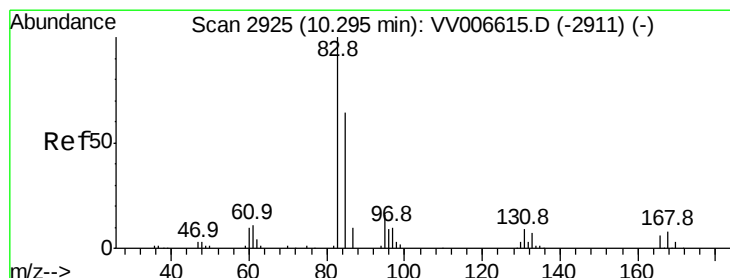
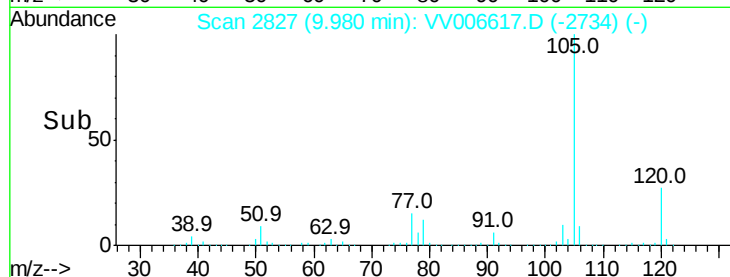
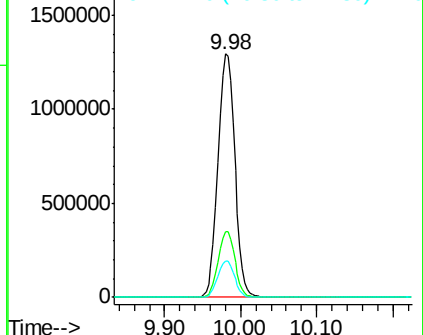
77 14.9 12.0 18.0



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: 28.052 ug/L

RT: 10.30 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

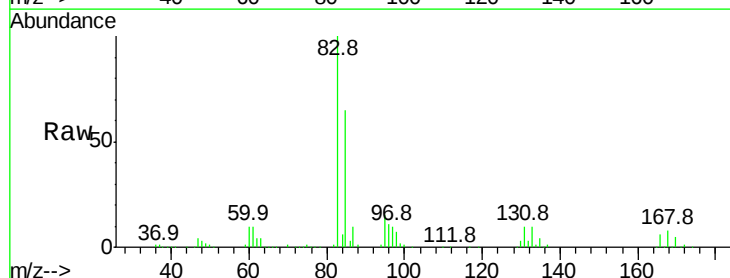
Tgt Ion: 83 Resp: 402639

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

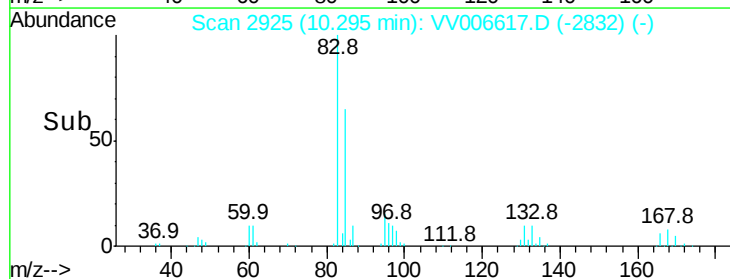
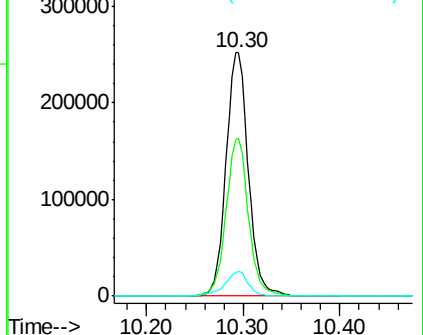
131 10.2 7.7 11.5

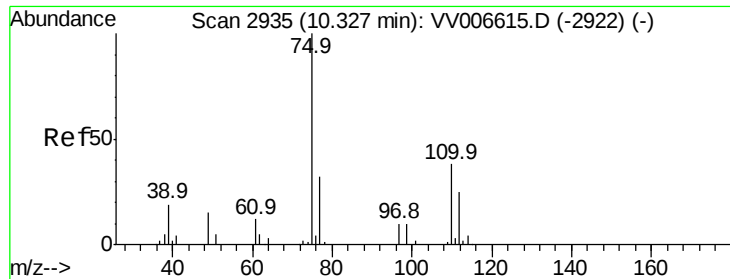


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 27.456 ug/L

RT: 10.33 min Scan# 2935

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

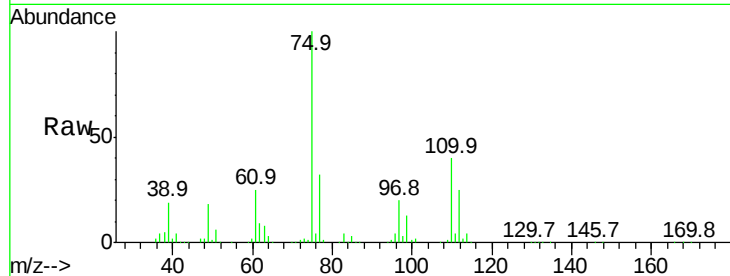
VSTD02079

Tgt Ion: 75 Resp: 284046

Ion Ratio Lower Upper

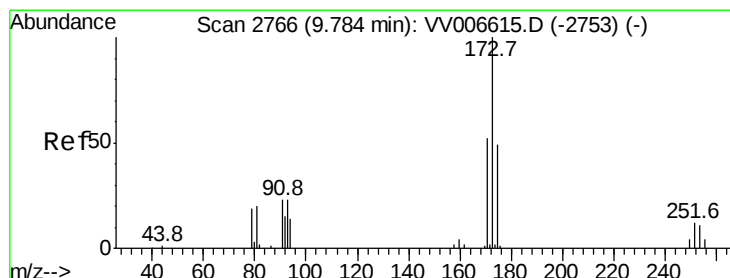
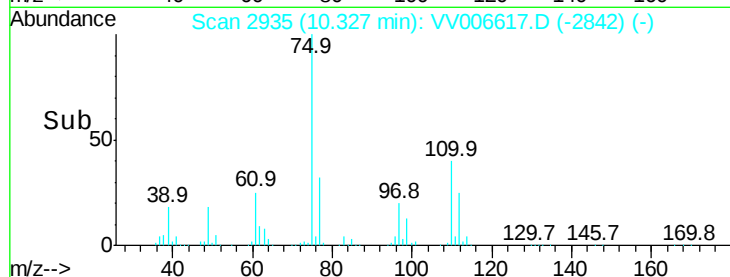
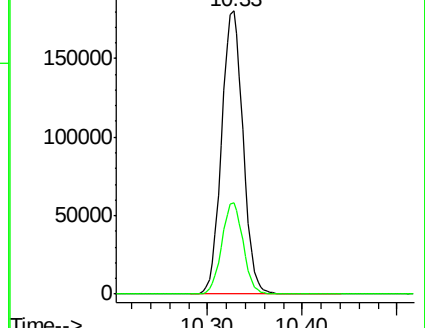
75 100

77 32.0 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV006617.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV006617.D (-2922) (-)



#61

Bromoform

Concen: 27.675 ug/L

RT: 9.78 min Scan# 2766

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

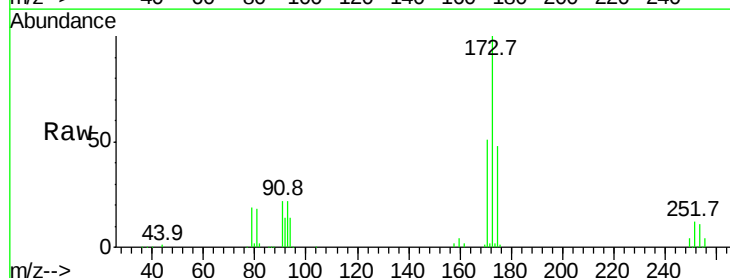
Tgt Ion: 173 Resp: 193297

Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.6

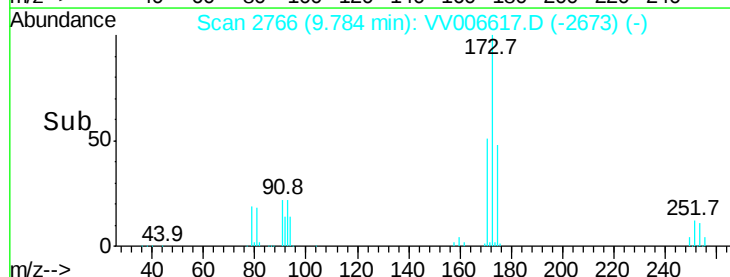
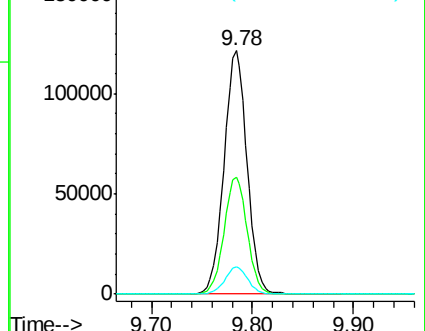
254 11.2 8.7 13.1

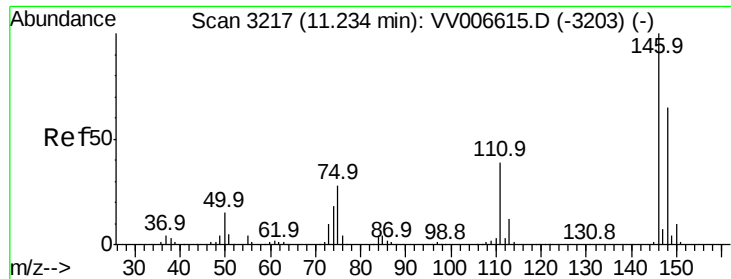


Abundance Ion 172.90 (172.60 to 173.60): VV006617.D (-2753) (-)

Ion 174.90 (174.60 to 175.60): VV006617.D (-2753) (-)

Ion 253.75 (253.45 to 254.45): VV006617.D (-2753) (-)





#62

1,3-Dichlorobenzene

Concen: 24.271 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02079

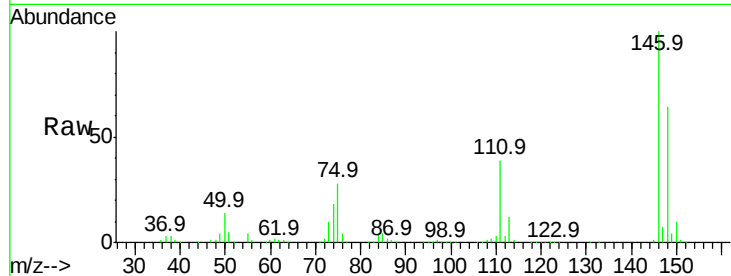
Tgt Ion:146 Resp: 933371

Ion Ratio Lower Upper

146 100

111 39.2 27.4 51.0

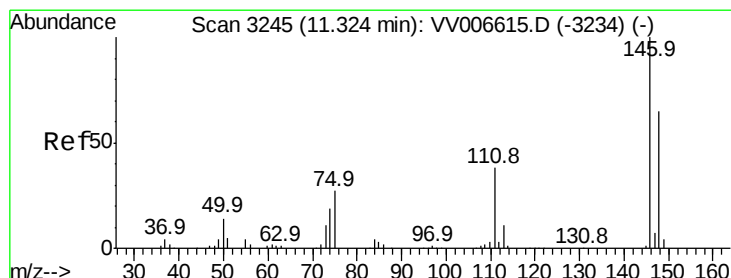
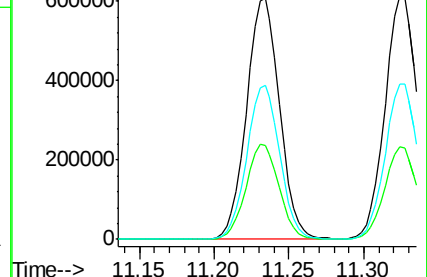
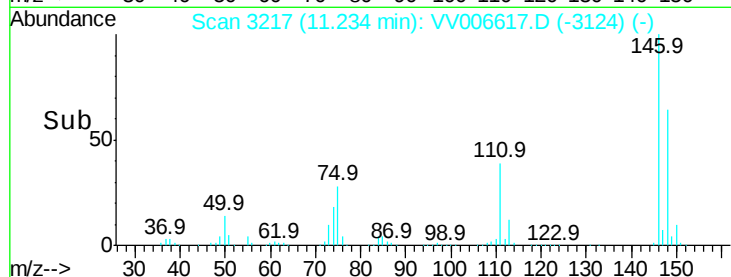
148 64.1 45.2 84.0



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: 24.132 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

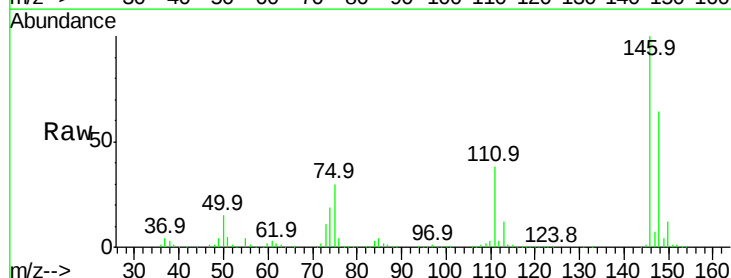
Tgt Ion:146 Resp: 943350

Ion Ratio Lower Upper

146 100

111 38.0 27.1 50.3

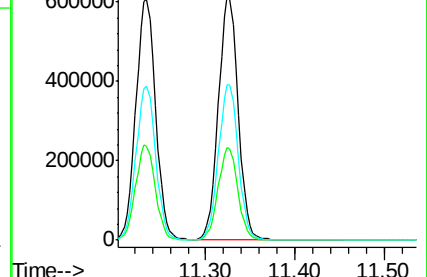
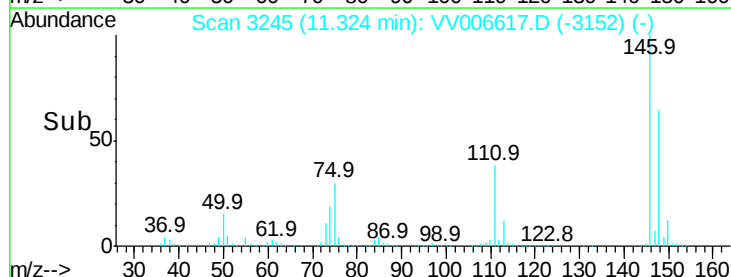
148 64.0 45.7 84.9

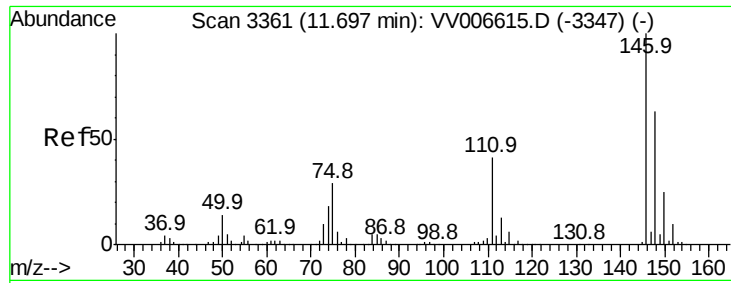


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

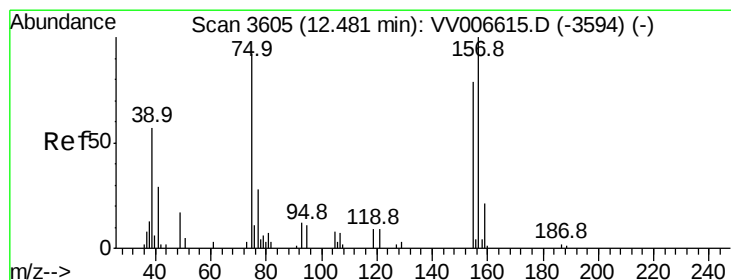
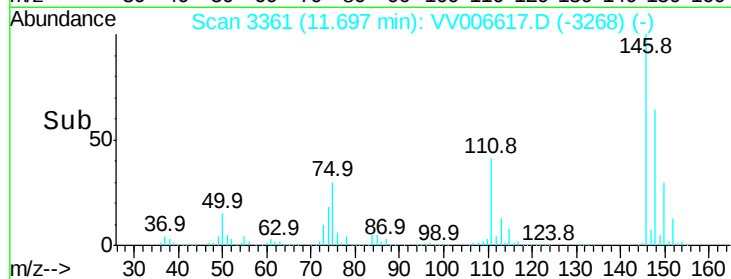
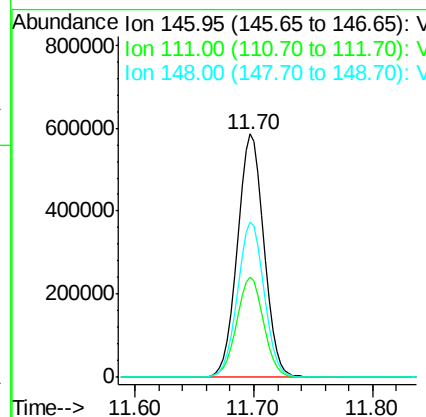
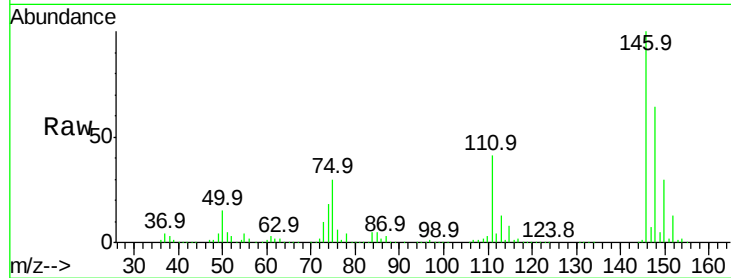




#65  
 1,2-Dichlorobenzene  
 Concen: 24.321 ug/L  
 RT: 11.70 min Scan# 3361  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

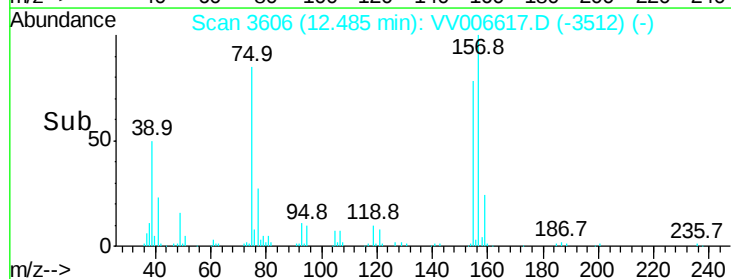
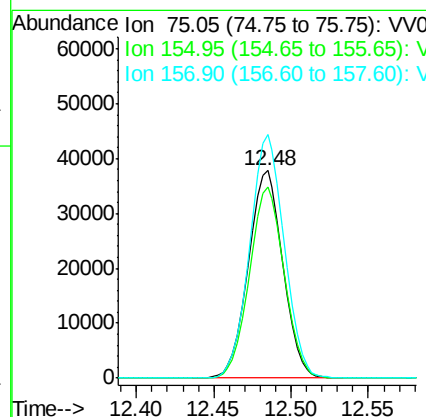
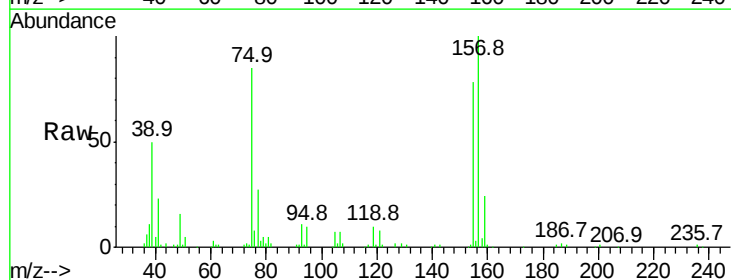
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02079

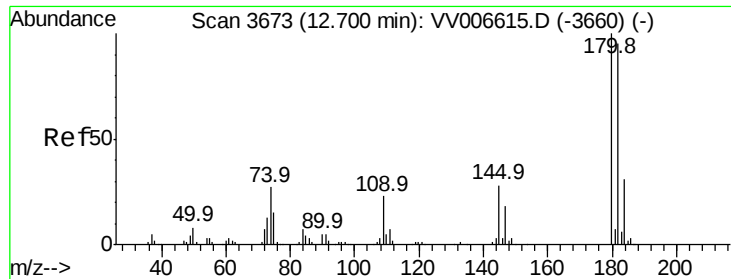
Tgt Ion: 146 Resp: 903454  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 32.6 48.8  
 148 63.8 50.8 76.2



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 29.692 ug/L  
 RT: 12.48 min Scan# 3606  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

Tgt Ion: 75 Resp: 58942  
 Ion Ratio Lower Upper  
 75 100  
 155 92.1 68.9 103.3  
 157 117.5 87.0 130.6

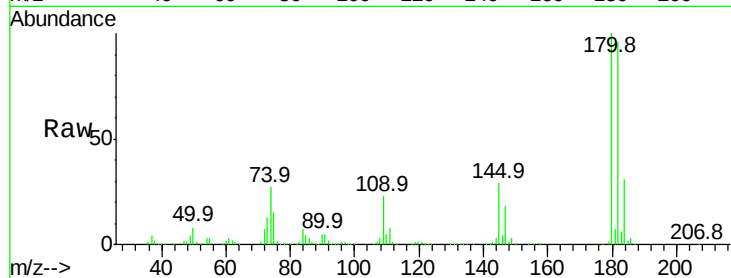




#67  
 1,3,5-Trichlorobenzene  
 Concen: 24.448 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02079

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.2  | 76.2  | 114.2 |
| 184     | 30.5  | 24.3  | 36.5  |
| 145     | 28.7  | 23.0  | 34.4  |

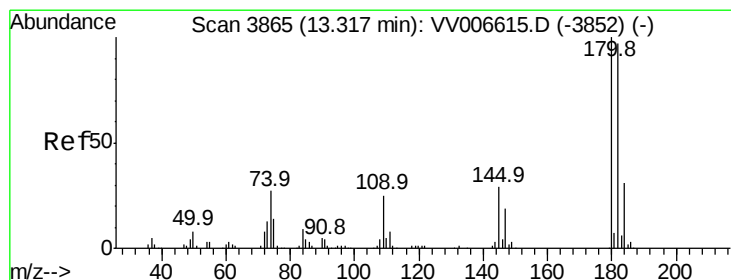
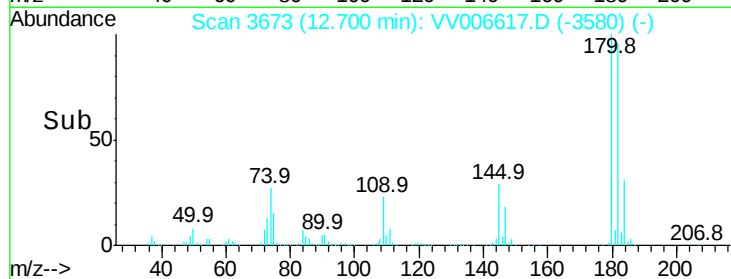
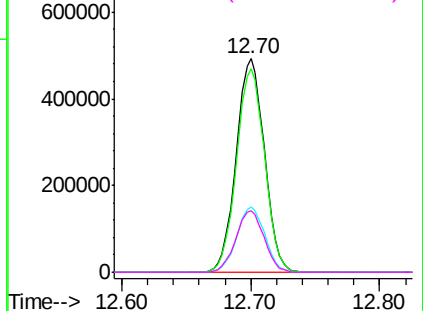


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

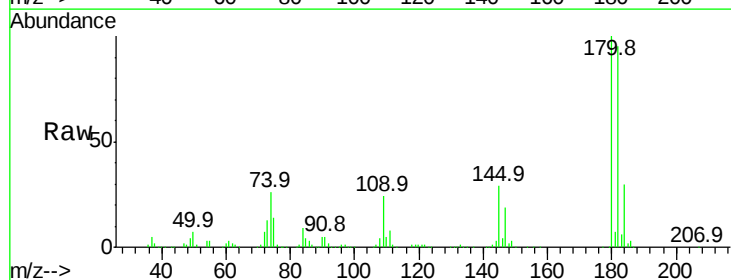
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.540 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. 0.00 min  
 Lab File: VV006617.D  
 Acq: 17 Jul 2018 14:01

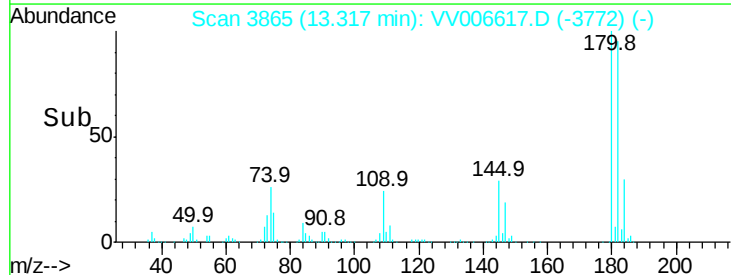
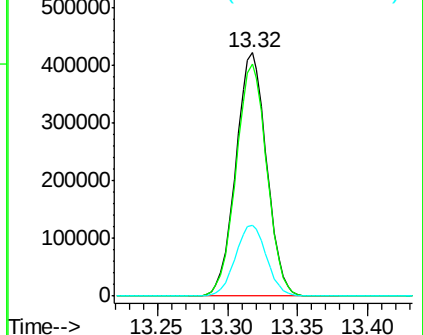
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 76.6  | 114.8 |
| 145     | 29.5  | 23.4  | 35.0  |

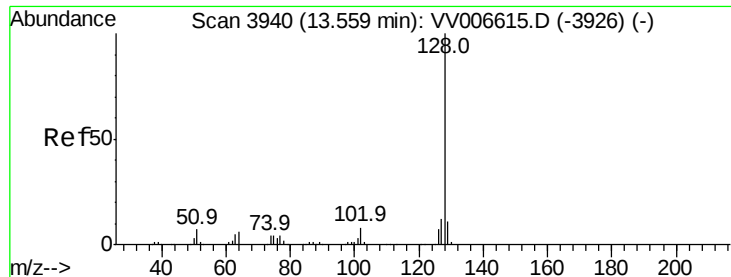


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 30.783 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02079

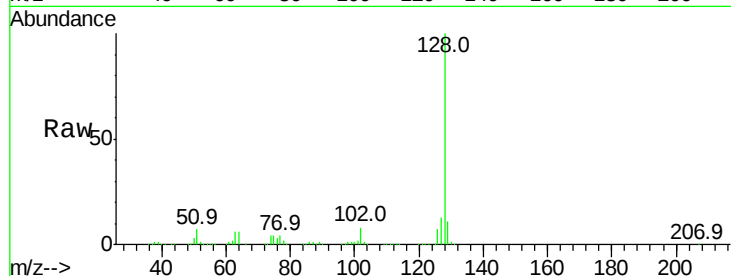
Tgt Ion:128 Resp: 1266988

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

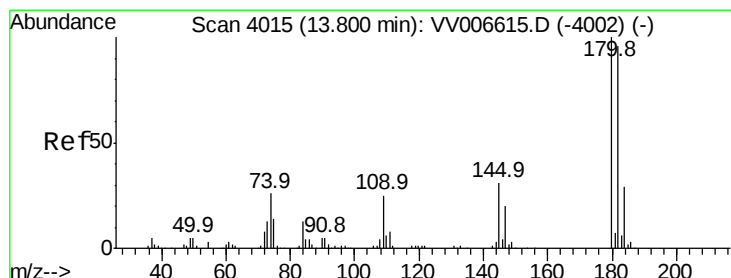
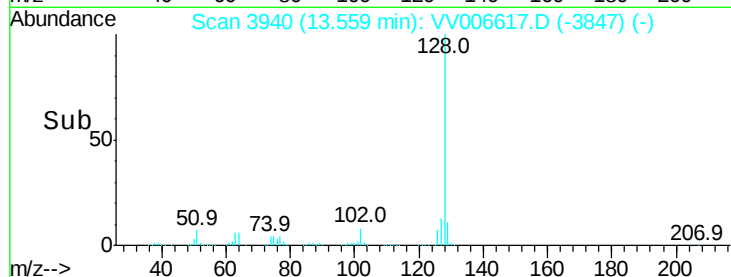
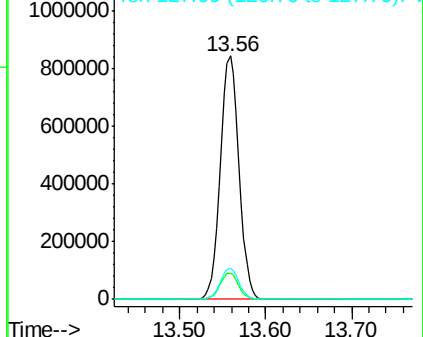
127 12.8 10.1 15.1



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: 26.616 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. 0.00 min

Lab File: VV006617.D

Acq: 17 Jul 2018 14:01

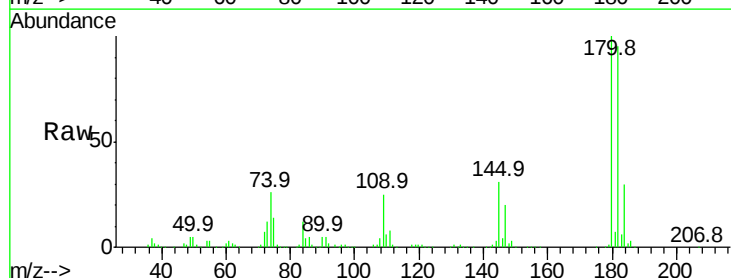
Tgt Ion:180 Resp: 604788

Ion Ratio Lower Upper

180 100

182 94.9 76.2 114.2

145 30.8 24.6 37.0



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

