

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080918\  
 Data File : VV006952.D  
 Acq On : 09 Aug 2018 14:37  
 Operator : SY/MD  
 Sample : VSTD02079  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 10 01:55:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 10 01:53:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 245015   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 237974   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 120790   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 320208  | 20.25  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 261222  | 19.47  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 588288  | 19.82  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.97  | 46  | 1076762 | 236.74 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 659888  | 20.57  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 347010  | 21.42  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 1300926 | 21.28  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 436728  | 20.90  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 1166839 | 22.43  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 166776  | 22.93  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 901603  | 303.22 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 359635  | 22.08  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 421613  | 20.06  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |         | Qvalue   |
|--------------------------------|------|-----|---------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 467159  | 19.578  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 447507  | 19.488  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 463132  | 19.516  | ug/L 99  |
| 6) Bromomethane                | 1.54 | 94  | 102279  | 19.855  | ug/L 97  |
| 8) Chloroethane                | 1.60 | 64  | 273464  | 18.991  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 583903  | 19.335  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 352293  | 19.439  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 333642  | 18.963  | ug/L 94  |
| 13) Acetone                    | 2.21 | 43  | 487872  | 208.315 | ug/L 99  |
| 14) Carbon disulfide           | 2.32 | 76  | 1126992 | 19.403  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 140520  | 21.319  | ug/L 94  |
| 16) Methylene chloride         | 2.54 | 84  | 364757  | 17.194  | ug/L 100 |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 878654  | 20.828  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 372784  | 19.788  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 650686  | 19.131  | ug/L 99  |
| 21) 2-Butanone                 | 4.05 | 43  | 1179237 | 231.910 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 421042  | 19.695  | ug/L 94  |
| 23) Bromochloromethane         | 4.30 | 128 | 175397  | 20.128  | ug/L 97  |
| 25) Chloroform                 | 4.43 | 83  | 725249  | 19.490  | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 477816  | 20.589  | ug/L 99  |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 614818  | 19.376  | ug/L 99  |
| 30) Cyclohexane                | 4.72 | 56  | 725465  | 21.965  | ug/L 97  |
| 31) Carbon tetrachloride       | 4.88 | 117 | 521426  | 19.594  | ug/L 100 |
| 33) Benzene                    | 5.15 | 78  | 1699707 | 20.617  | ug/L 100 |
| 34) Trichloroethene            | 5.96 | 95  | 397279  | 20.096  | ug/L 97  |
| 35) Methylcyclohexane          | 6.18 | 83  | 726993  | 22.907  | ug/L 98  |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 455719  | 20.194  | ug/L 99  |
| 38) Bromodichloromethane       | 6.56 | 83  | 515411  | 20.100  | ug/L 100 |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 610462  | 22.392  | ug/L 99  |
| 40) 4-Methyl-2-pentanone       | 7.29 | 43  | 3007931 | 246.748 | ug/L 97  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080918\  
 Data File : VV006952.D  
 Acq On : 09 Aug 2018 14:37  
 Operator : SY/MD  
 Sample : VSTD02079  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

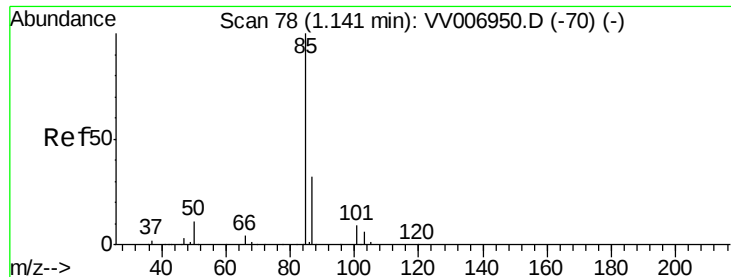
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 10 01:55:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 10 01:53:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 42) Toluene                    | 7.44  | 91   | 1721919  | 21.735  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 507923   | 22.698  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 296655   | 20.207  | ug/L   | 95       |
| 47) Tetrachloroethene          | 8.02  | 164  | 318822   | 19.891  | ug/L   | 99       |
| 48) 2-Hexanone                 | 8.20  | 43   | 2190176  | 254.744 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.30  | 129  | 330033   | 21.430  | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 263303   | 21.232  | ug/L # | 99       |
| 51) Chlorobenzene              | 8.93  | 112  | 1047696  | 20.747  | ug/L   | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 1852572  | 23.418  | ug/L   | 100      |
| 53) m,p-xylene                 | 9.19  | 106  | 699121   | 23.707  | ug/L   | 99       |
| 54) o-xylene                   | 9.59  | 106  | 665453   | 23.815  | ug/L   | 100      |
| 55) Styrene                    | 9.61  | 104  | 1190831  | 25.281  | ug/L   | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 1776811  | 24.236  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 382903   | 21.459  | ug/L   | 96       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 279344   | 22.114  | ug/L   | 99       |
| 61) Bromoform                  | 9.78  | 173  | 181787   | 19.871  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 778012   | 19.905  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 805551   | 20.108  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 775772   | 20.178  | ug/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 56174    | 20.581  | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 613646   | 20.744  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 499582   | 23.011  | ug/L   | 99       |
| 69) Naphthalene                | 13.56 | 128  | 860303   | 27.594  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 486980   | 23.270  | ug/L   | 99       |
| -----                          |       |      |          |         |        |          |

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





#2

Dichlorodifluoromethane

Concen: 19.578 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

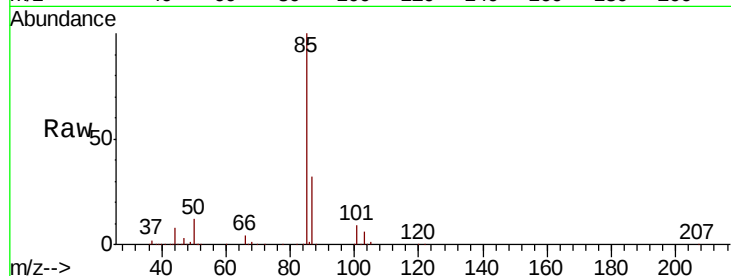
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 85 Resp: 467159

Ion Ratio Lower Upper

85 100

87 32.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV006952.D (-70) (-)

Ion 87.00 (86.70 to 87.70): VV006952.D (-70) (-)

1.14

400000

300000

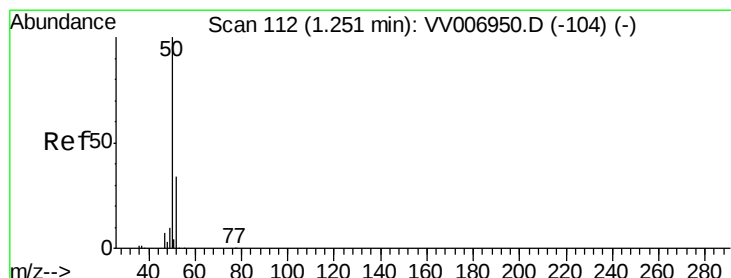
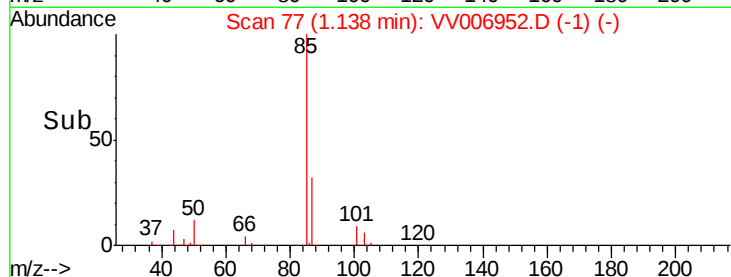
200000

100000

0

Time-->

1.05 1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 19.488 ug/L

RT: 1.25 min Scan# 112

Delta R.T. -0.00 min

Lab File: VV006952.D

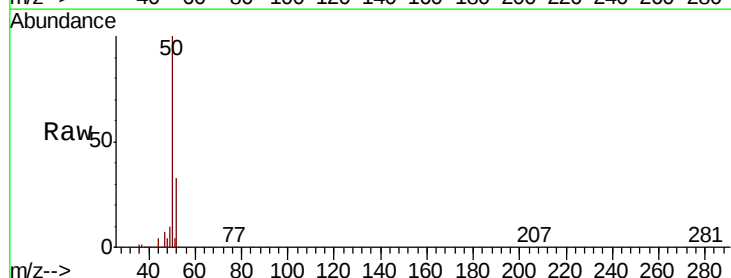
Acq: 09 Aug 2018 14:37

Tgt Ion: 50 Resp: 447507

Ion Ratio Lower Upper

50 100

52 33.1 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VV006952.D (-19) (-)

Ion 52.05 (51.75 to 52.75): VV006952.D (-19) (-)

1.25

400000

300000

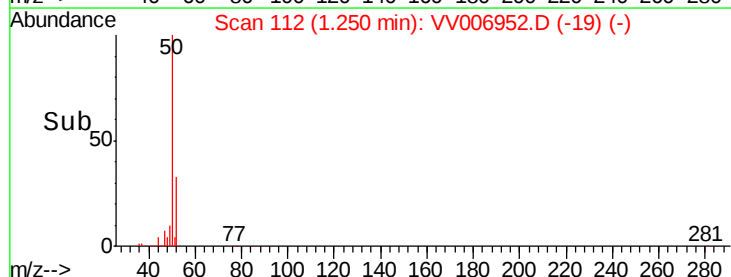
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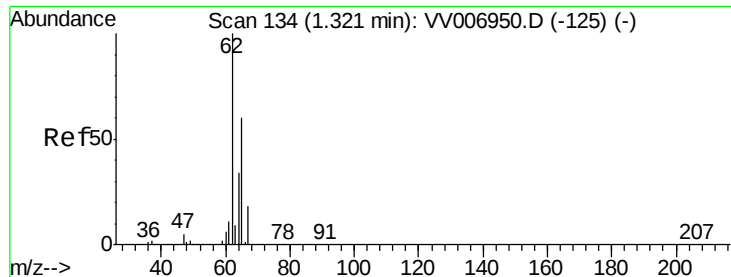
100000

0

Time-->

1.20 1.25 1.30





#5

Vinyl chloride

Concen: 19.516 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

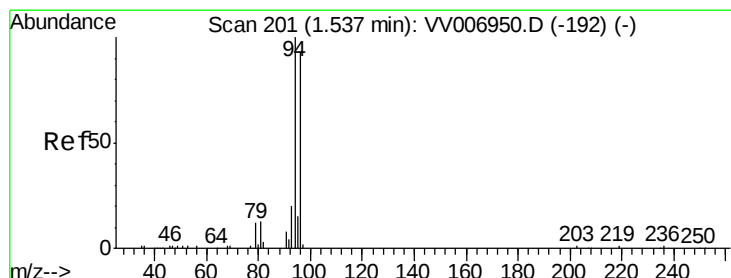
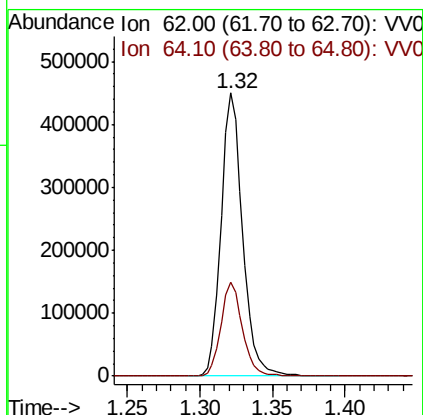
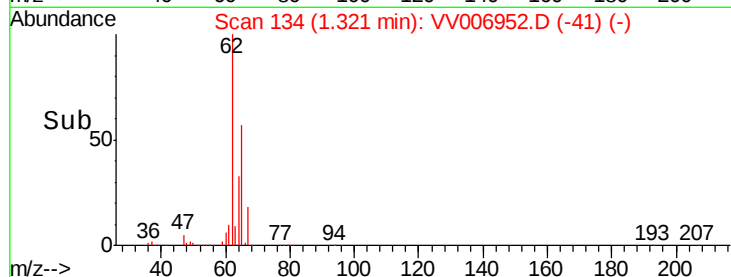
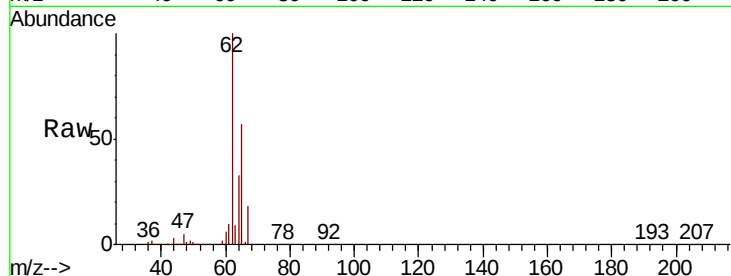
ClientSampled :

Tot Ion: 62 Resp: 463132

Ion Ratio Lower Upper

62 100

64 33.0 23.5 43.7



#6

Bromomethane

Concen: 19.855 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV006952.D

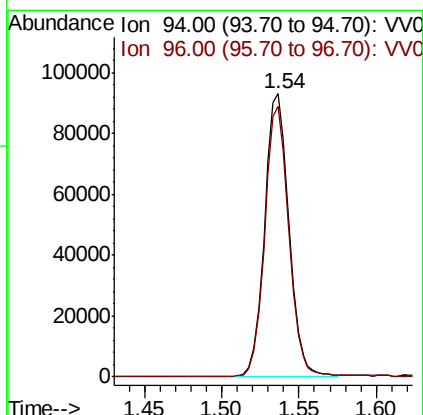
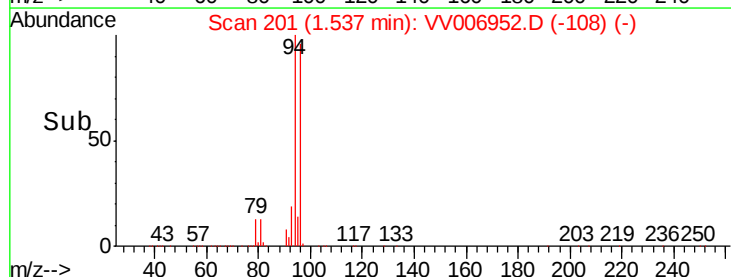
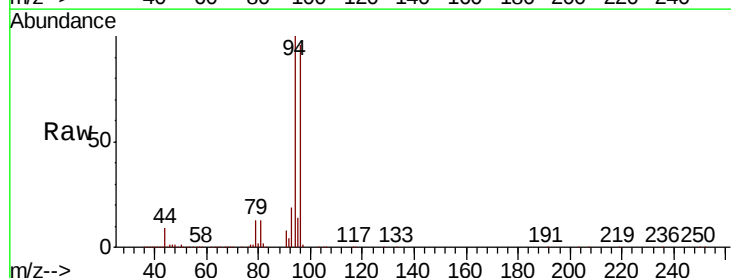
Acq: 09 Aug 2018 14:37

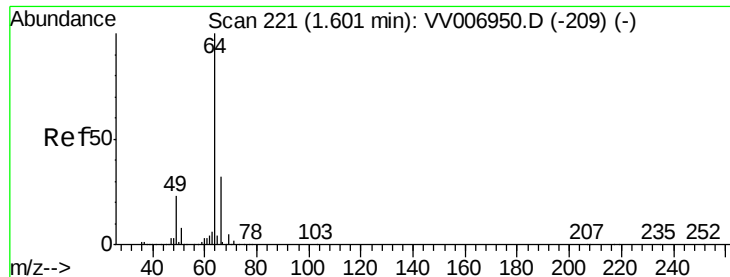
Tgt Ion: 94 Resp: 102279

Ion Ratio Lower Upper

94 100

96 95.6 65.0 120.6





#8

Chloroethane

Concen: 18.991 ug/L

RT: 1.60 min Scan# 220

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

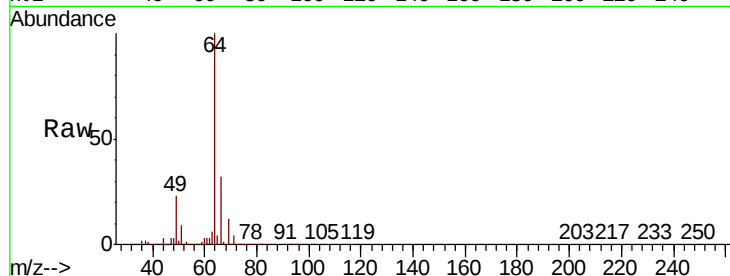
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 273464

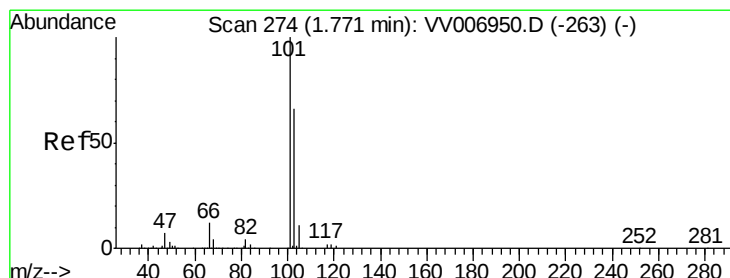
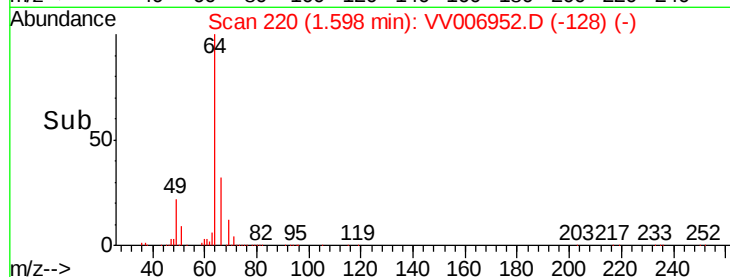
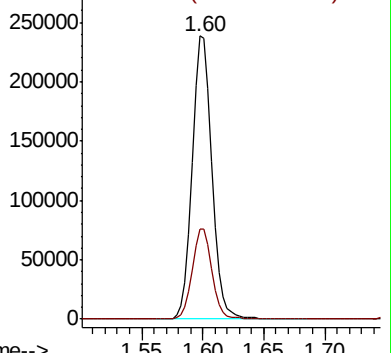
Ion Ratio Lower Upper

64 100

66 31.6 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV006952.D (-209) (-)



#9

Trichlorofluoromethane

Concen: 19.335 ug/L

RT: 1.77 min Scan# 273

Delta R.T. -0.00 min

Lab File: VV006952.D

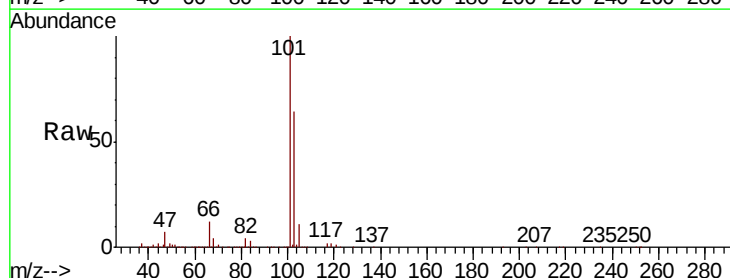
Acq: 09 Aug 2018 14:37

Tgt Ion: 101 Resp: 583903

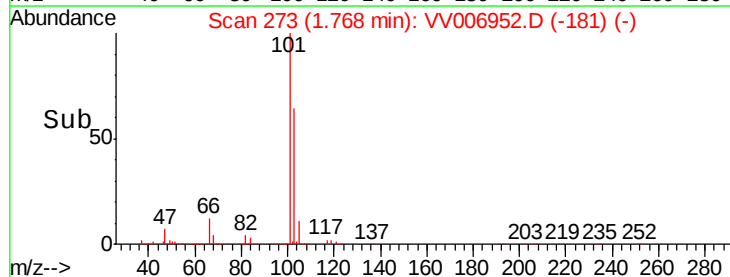
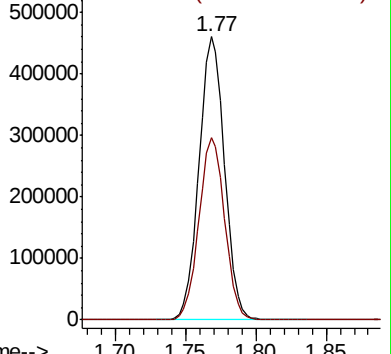
Ion Ratio Lower Upper

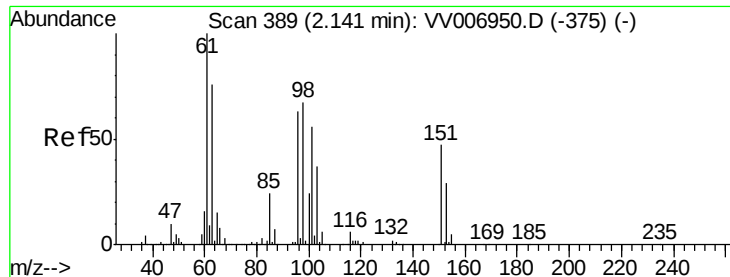
101 100

103 65.0 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VV006952.D (-263) (-)





#10

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

Concen: 19.439 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

ClientSampleId :

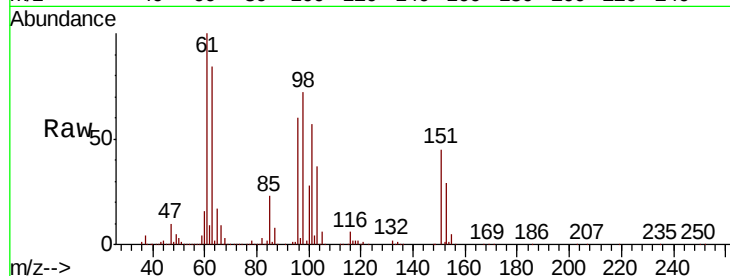
Tot Ion:101 Resp: 352293

Ion Ratio Lower Upper

101 100

85 41.7 33.9 50.9

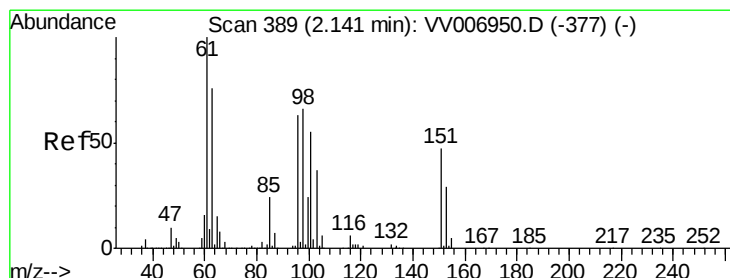
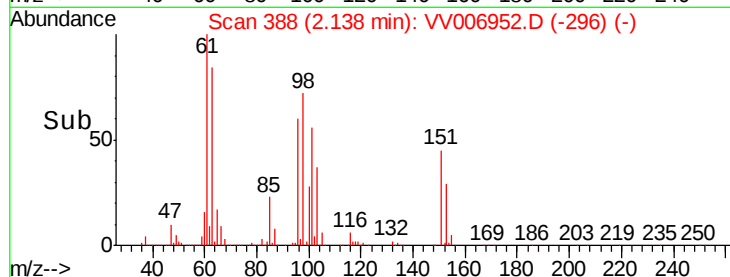
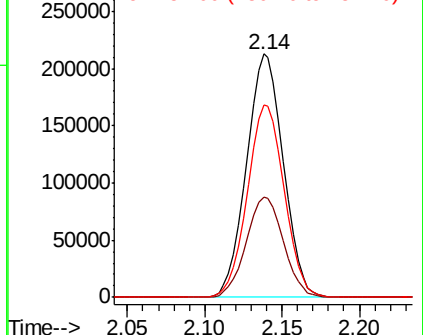
151 79.5 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 18.963 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

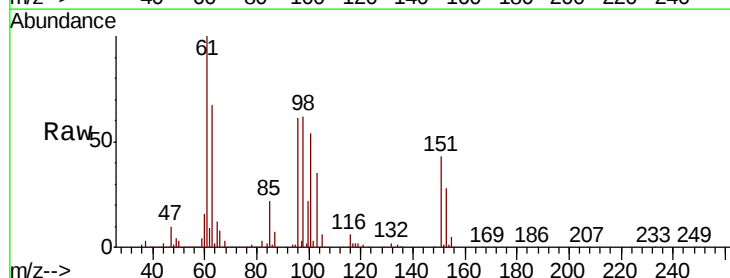
Tgt Ion: 96 Resp: 333642

Ion Ratio Lower Upper

96 100

61 163.3 111.6 207.4

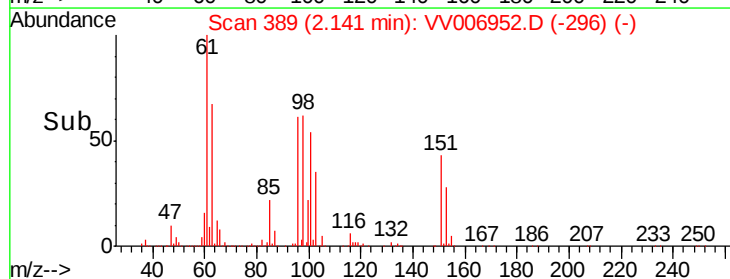
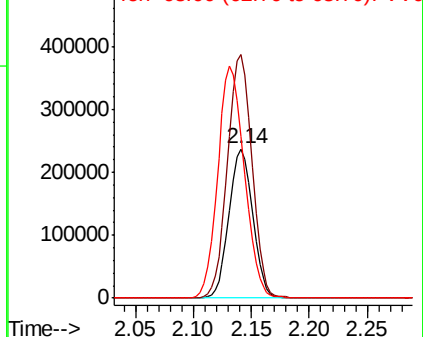
63 108.8 84.9 157.7

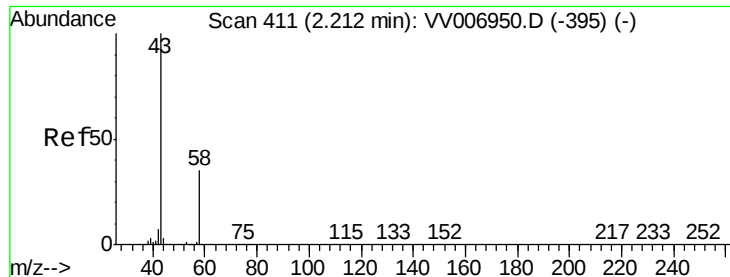


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 208.315 ug/L

RT: 2.21 min Scan# 411

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

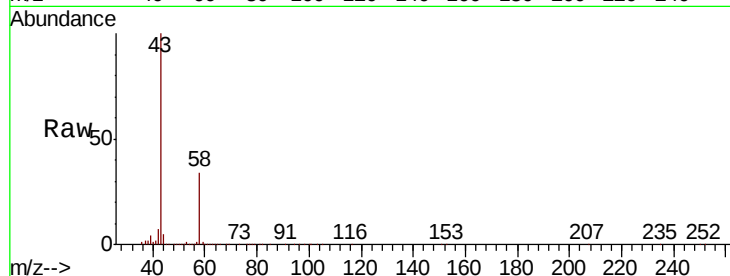
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 487872

Ion Ratio Lower Upper

43 100

58 34.9 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV006950.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VV006950.D (-395) (-)

2.21

200000

150000

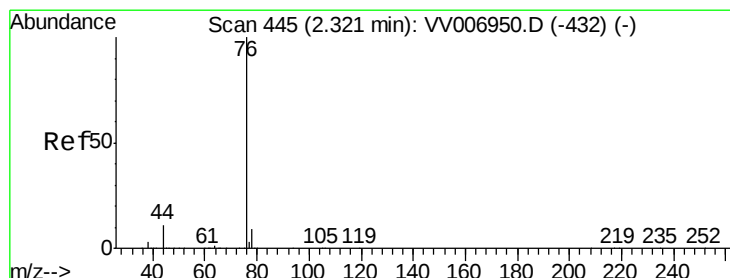
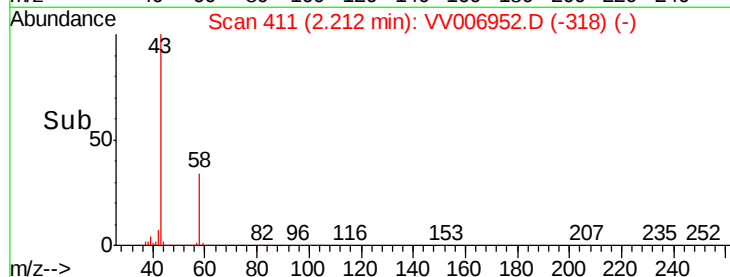
100000

50000

0

2.15 2.20 2.25 2.30

Time-->



#14

Carbon disulfide

Concen: 19.403 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV006952.D

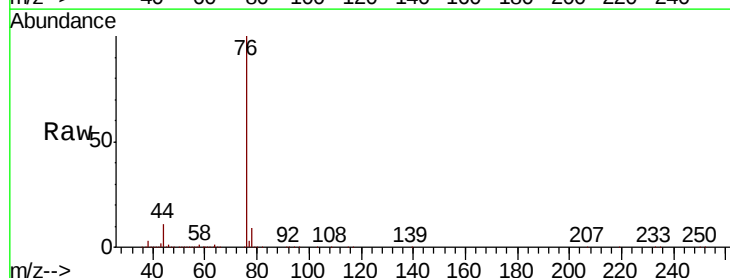
Acq: 09 Aug 2018 14:37

Tgt Ion: 76 Resp: 1126992

Ion Ratio Lower Upper

76 100

78 9.3 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV006950.D (-432) (-)

Ion 78.00 (77.70 to 78.70): VV006950.D (-432) (-)

2.32

800000

600000

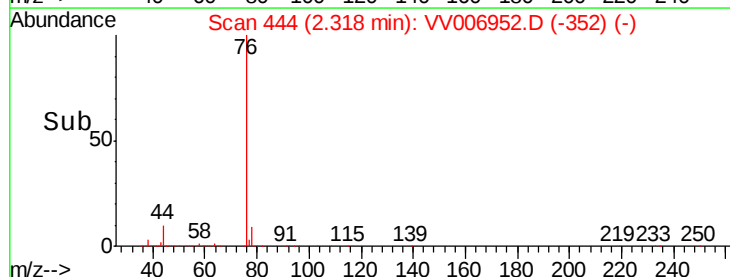
400000

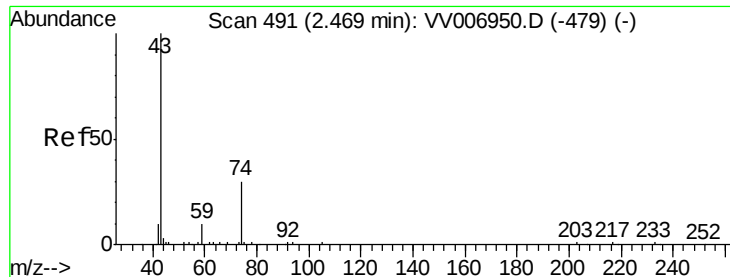
200000

0

2.20 2.30 2.40

Time-->





#15

Methvl Acetate

Concen: 21.319 ug/L

RT: 2.47 min Scan# 492

Delta R.T. 0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

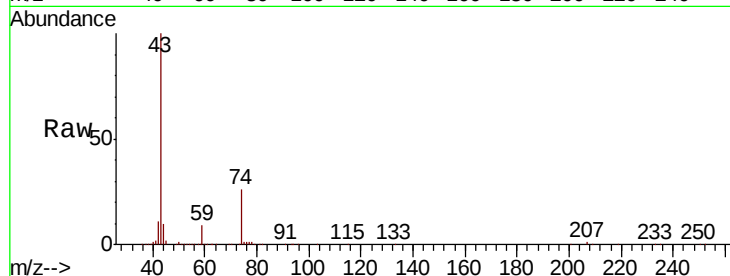
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 140520

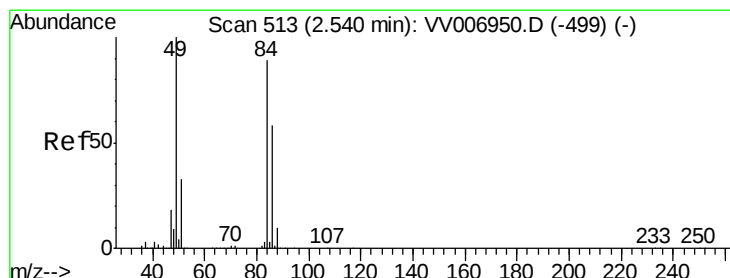
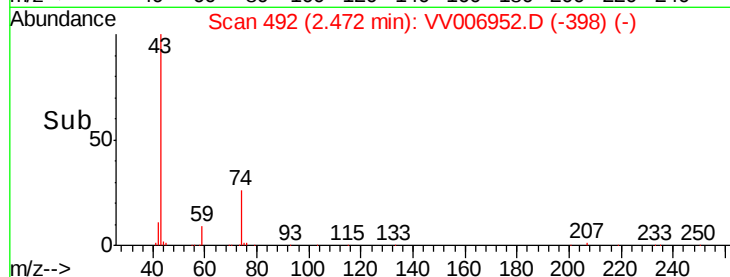
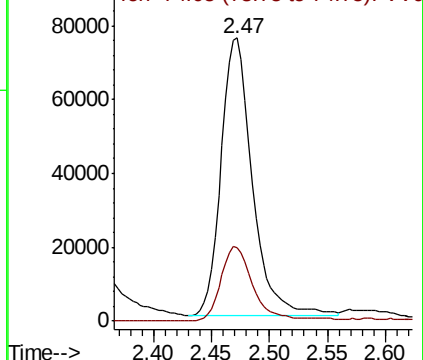
Ion Ratio Lower Upper

43 100

74 27.6 24.6 37.0



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 17.194 ug/L

RT: 2.54 min Scan# 512

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

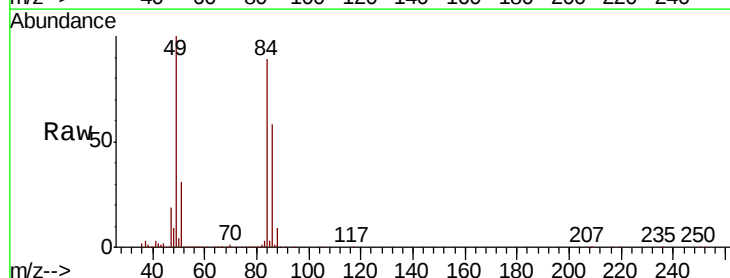
Tgt Ion: 84 Resp: 364757

Ion Ratio Lower Upper

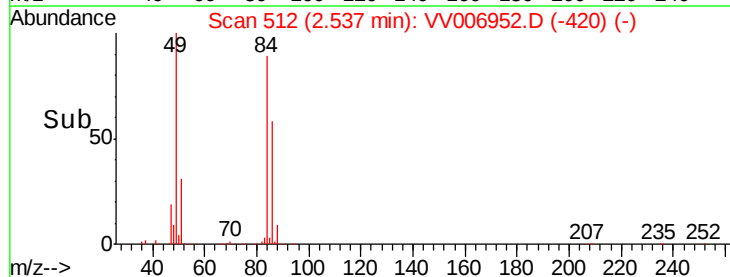
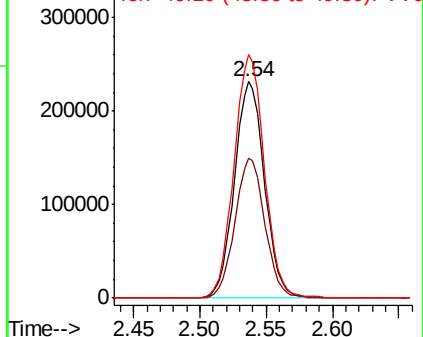
84 100

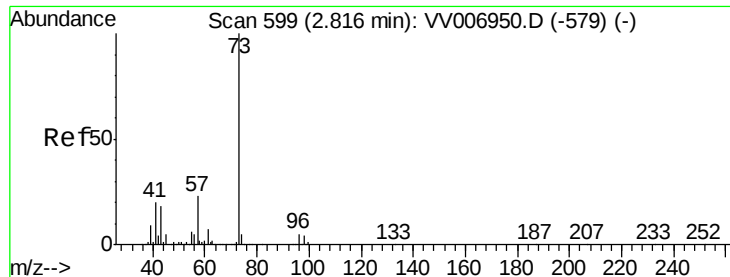
86 64.9 45.7 84.9

49 112.6 78.8 146.4



Abundance Ion 84.05 (83.75 to 84.75): VV0  
Ion 86.00 (85.70 to 86.70): VV0  
Ion 49.10 (48.80 to 49.80): VV0

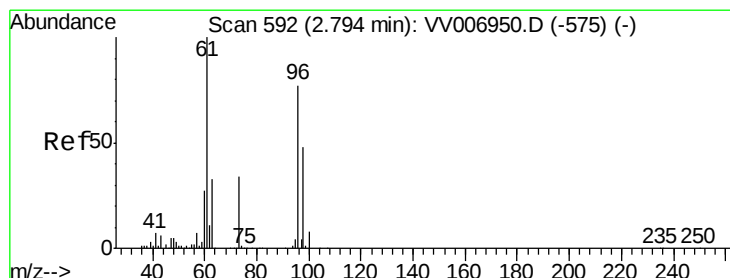
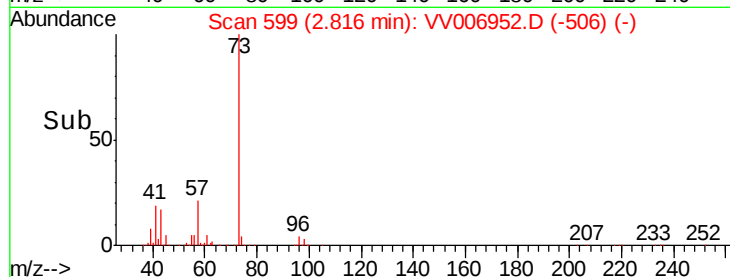
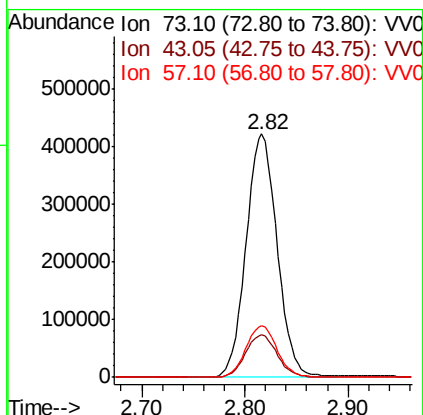
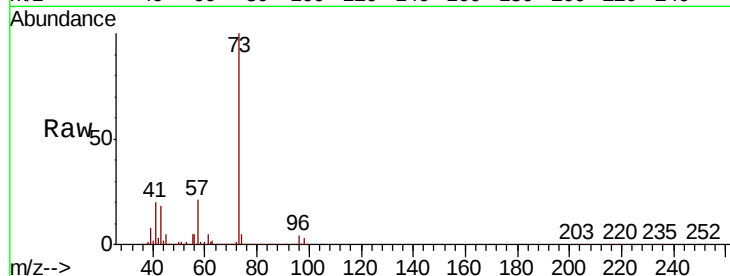




#17  
Methvl tert-butvl Ether  
Concen: 20.828 ug/L  
RT: 2.82 min Scan# 599  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

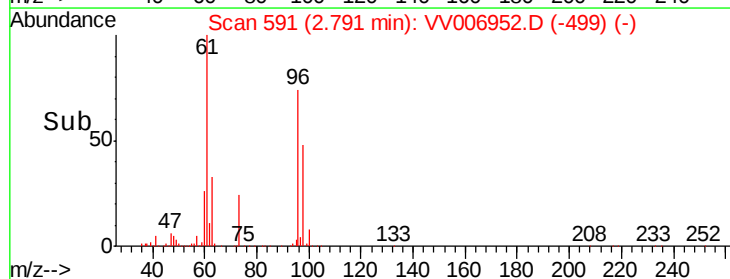
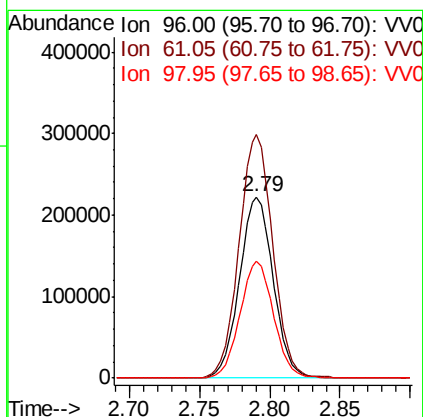
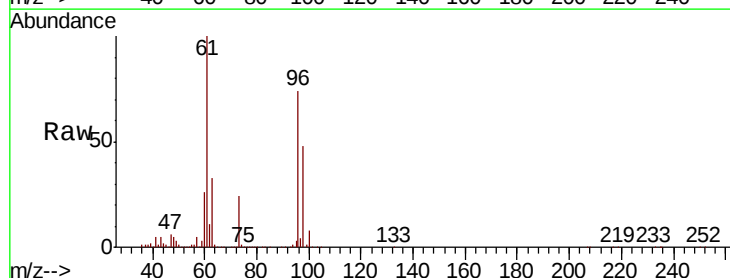
Instrument :  
MSVOA\_V  
ClientSampled :

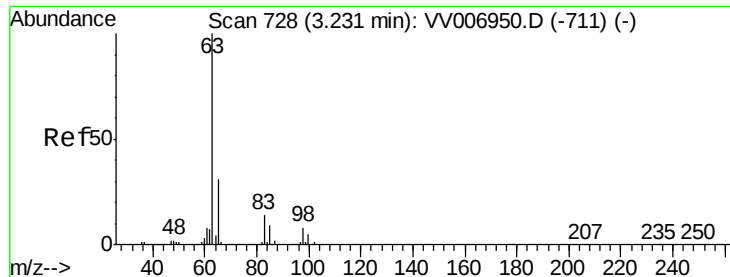
Tot Ion: 73 Resp: 878654  
Ion Ratio Lower Upper  
73 100  
43 17.7 14.4 21.6  
57 21.4 17.9 26.9



#18  
trans-1,2-Dichloroethene  
Concen: 19.788 ug/L  
RT: 2.79 min Scan# 591  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

Tgt Ion: 96 Resp: 372784  
Ion Ratio Lower Upper  
96 100  
61 134.3 91.1 169.3  
98 64.3 43.5 80.9

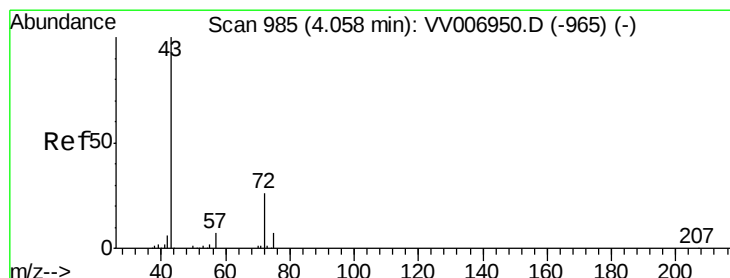
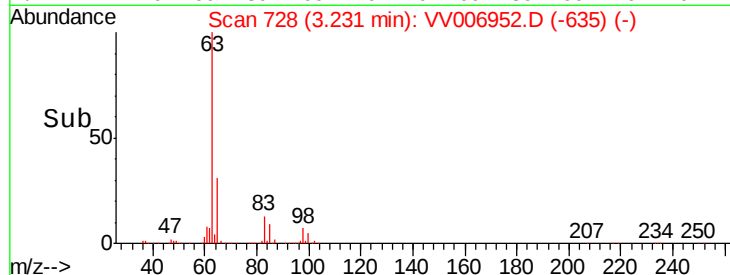
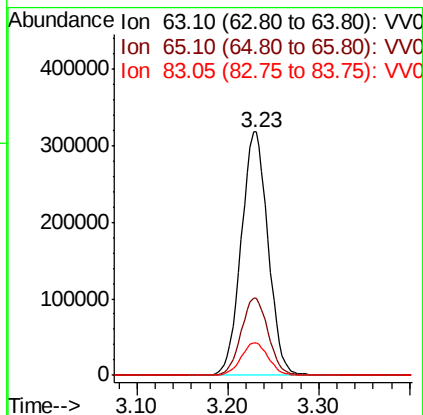
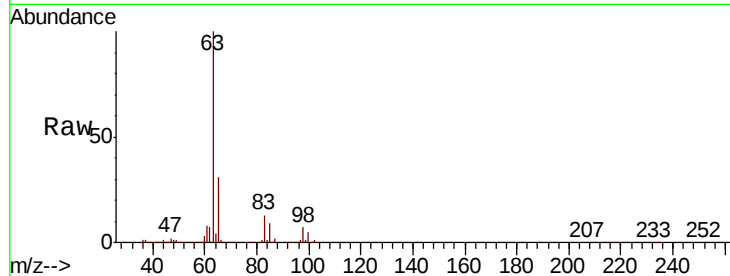




#19  
 1,1-Dichloroethane  
 Concen: 19.131 ug/L  
 RT: 3.23 min Scan# 728  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

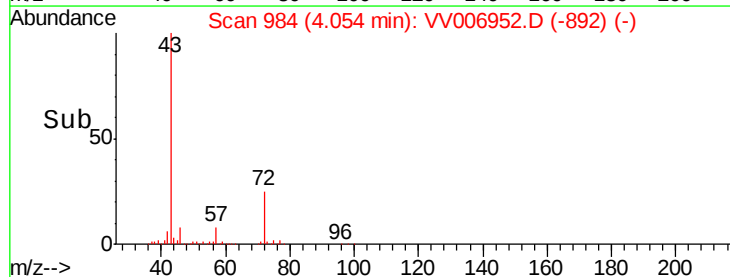
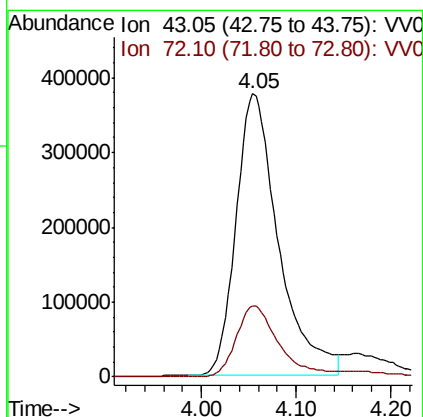
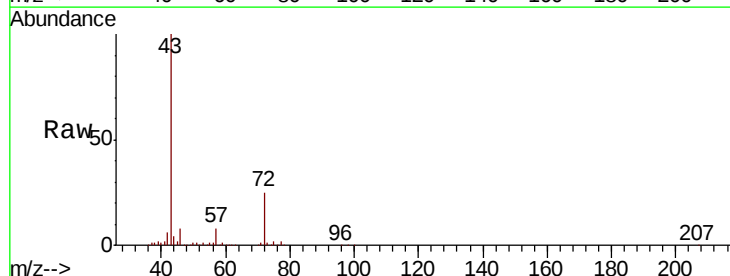
Instrument :  
 MSVOA\_V  
 ClientSampleId :

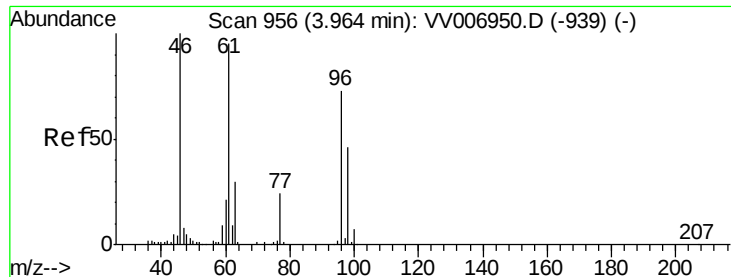
Tot Ion: 63 Resp: 650686  
 Ion Ratio Lower Upper  
 63 100  
 65 31.5 21.7 40.3  
 83 13.3 10.0 18.6



#21  
 2-Butanone  
 Concen: 231.910 ug/L  
 RT: 4.05 min Scan# 984  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

Tgt Ion: 43 Resp: 1179237  
 Ion Ratio Lower Upper  
 43 100  
 72 25.0 12.4 37.2



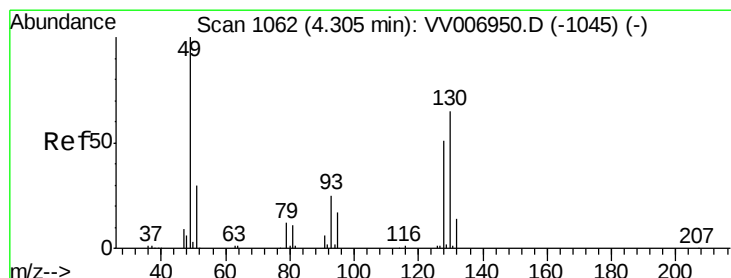
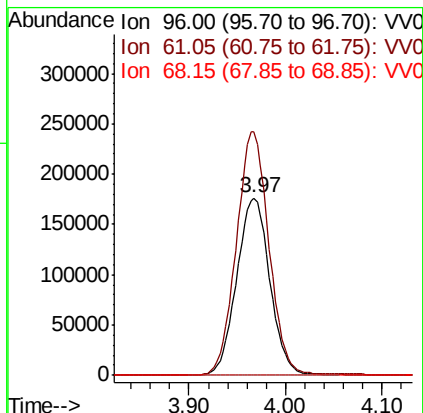
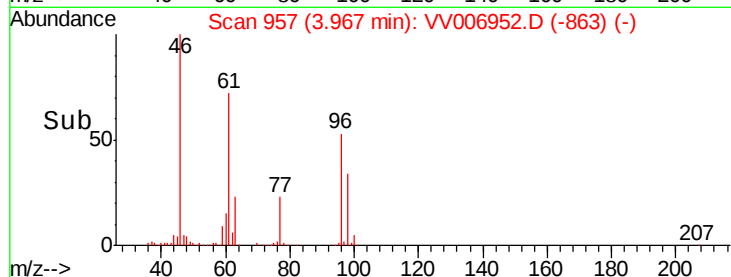
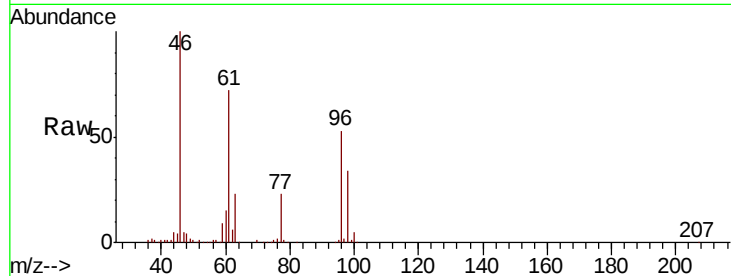


#22

cis-1,2-Dichloroethene  
 Concen: 19.695 ug/L  
 RT: 3.97 min Scan# 957  
 Delta R.T. 0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

Instrument :  
 MSVOA\_V  
 ClientSampleId :

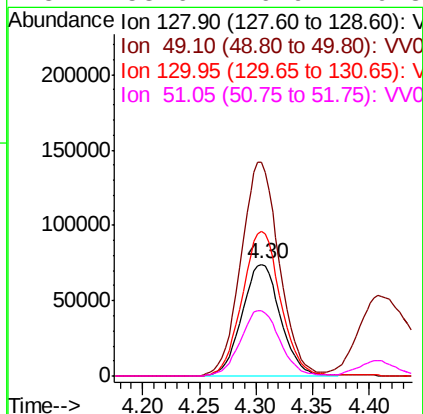
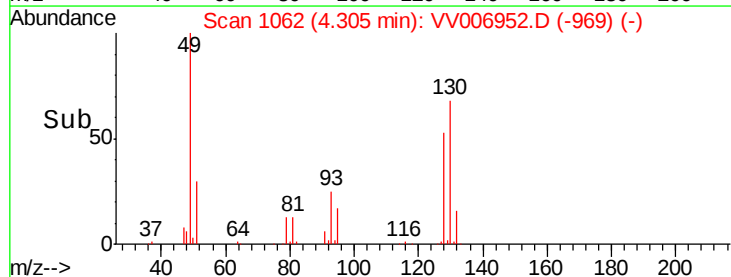
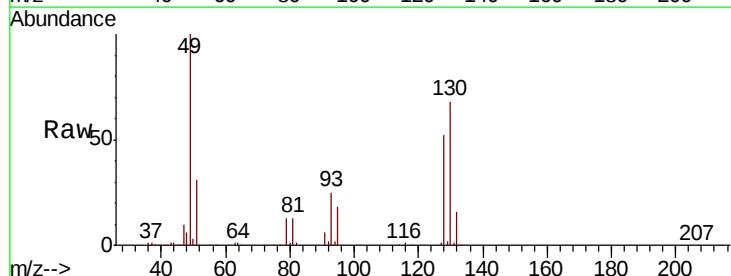
Tot Ion: 96 Resp: 421042  
 Ion Ratio Lower Upper  
 96 100  
 61 137.4 91.1 169.1  
 68 0.0 0.0 0.0

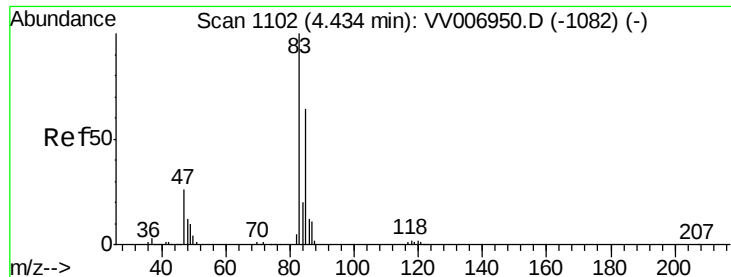


#23

Bromochloromethane  
 Concen: 20.128 ug/L  
 RT: 4.30 min Scan# 1062  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

Tgt Ion: 128 Resp: 175397  
 Ion Ratio Lower Upper  
 128 100  
 49 190.6 138.6 257.4  
 130 129.2 90.0 167.2  
 51 58.6 46.9 70.3





#25

Chloroform

Concen: 19.490 ug/L

RT: 4.43 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

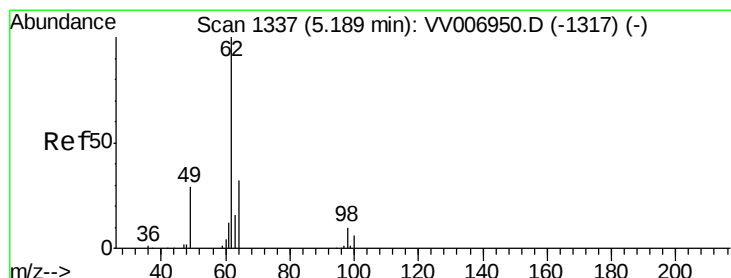
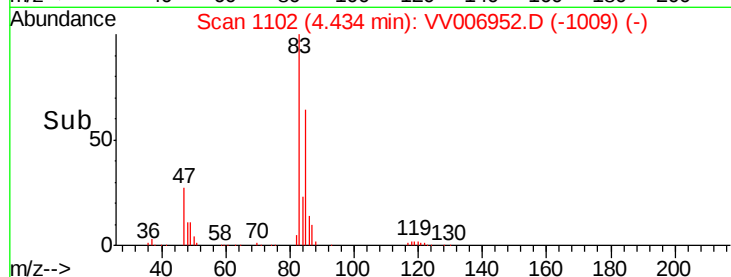
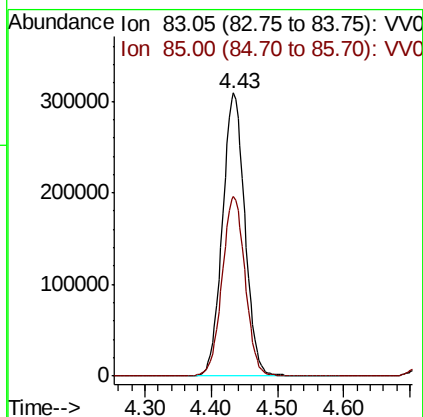
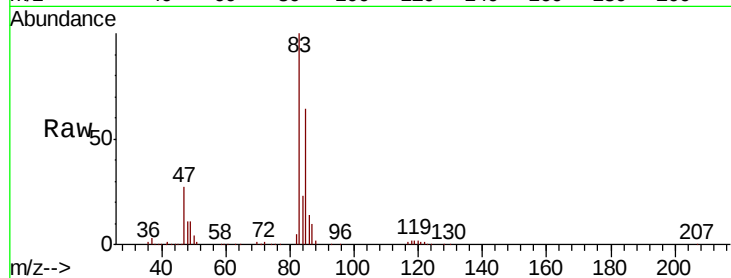
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 725249

Ion Ratio Lower Upper

83 100

85 63.6 44.7 82.9



#27

1,2-Dichloroethane

Concen: 20.589 ug/L

RT: 5.19 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VV006952.D

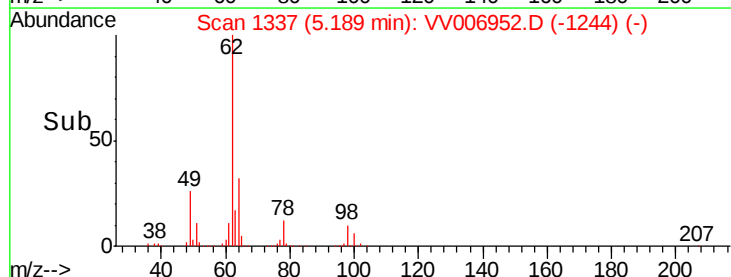
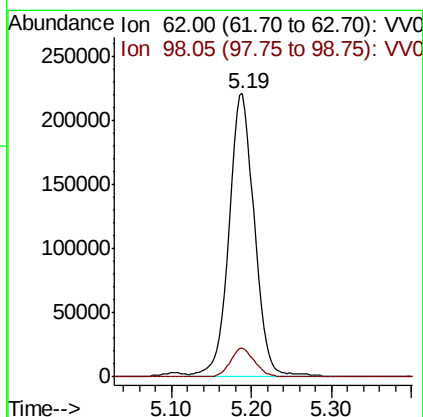
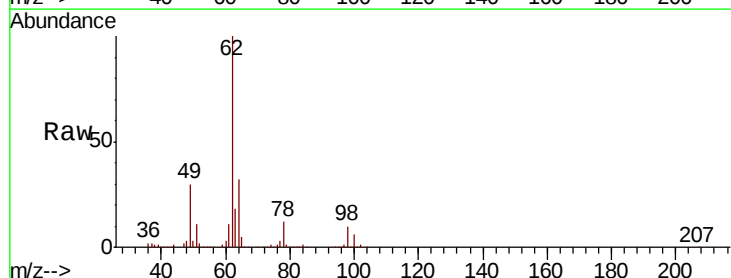
Acq: 09 Aug 2018 14:37

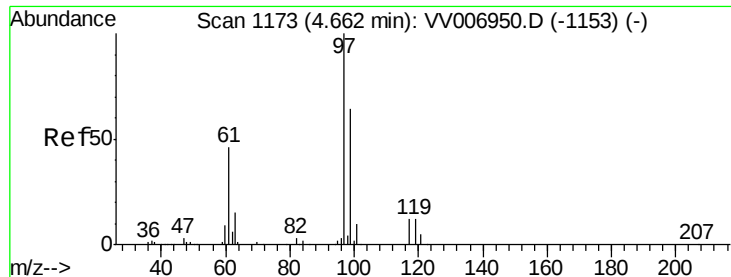
Tgt Ion: 62 Resp: 477816

Ion Ratio Lower Upper

62 100

98 9.9 7.6 11.4

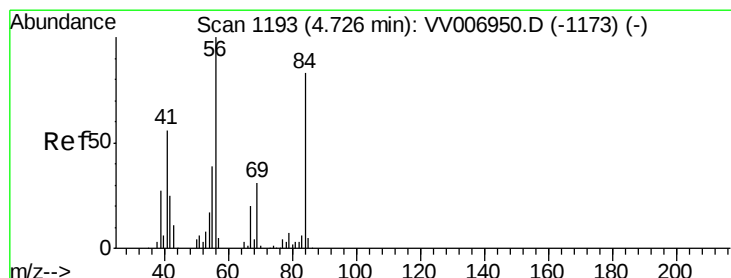
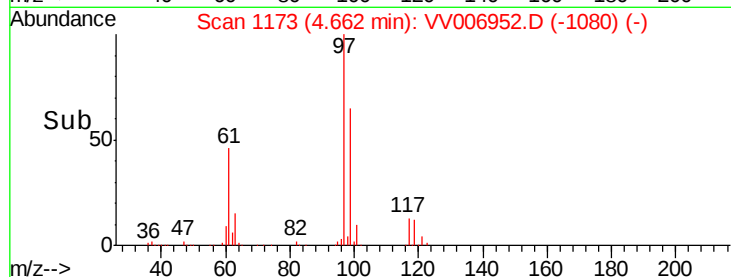
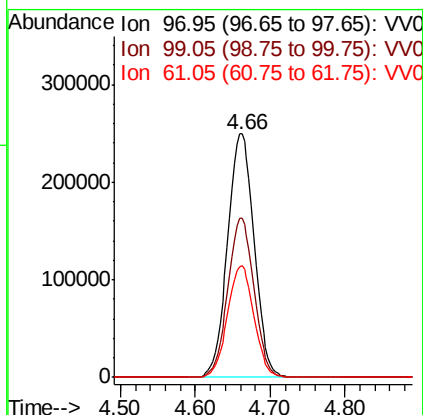
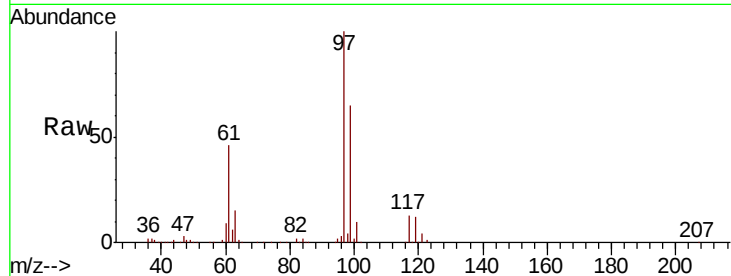




#29  
 1,1,1-Trichloroethane  
 Concen: 19.376 ug/L  
 RT: 4.66 min Scan# 1173  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

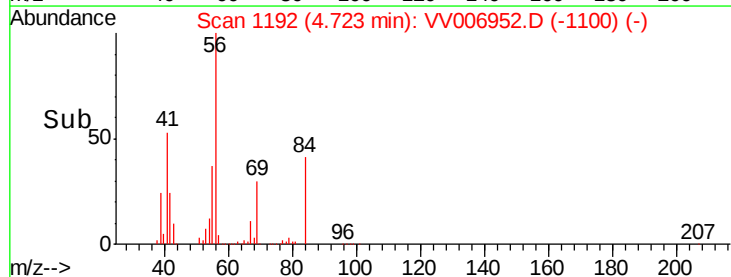
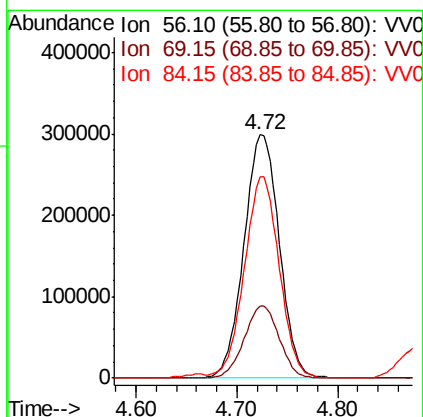
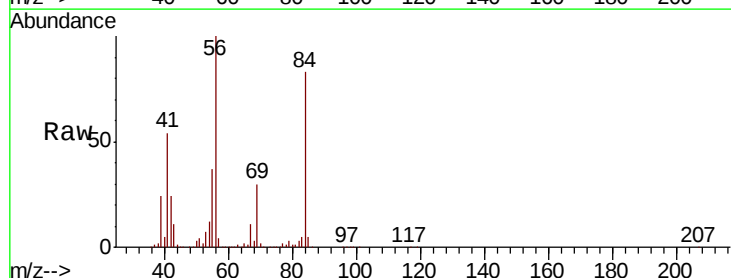
Instrument :  
 MSVOA\_V  
 ClientSampleId :

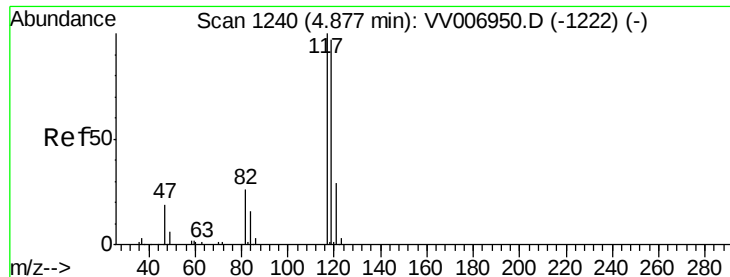
Tot Ion: 97 Resp: 614818  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 51.0 76.6  
 61 45.9 36.6 54.8



#30  
 Cyclohexane  
 Concen: 21.965 ug/L  
 RT: 4.72 min Scan# 1192  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

Tgt Ion: 56 Resp: 725465  
 Ion Ratio Lower Upper  
 56 100  
 69 29.1 23.8 35.6  
 84 81.9 67.9 101.9





#31

Carbon tetrachloride

Concen: 19.594 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

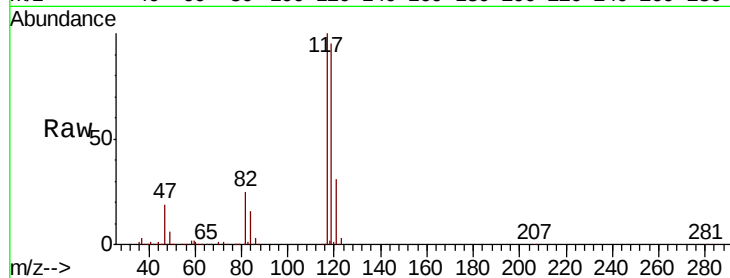
ClientSampleId :

Tot Ion:117 Resp: 521426

Ion Ratio Lower Upper

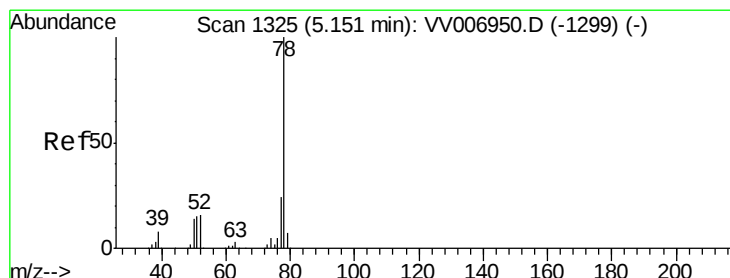
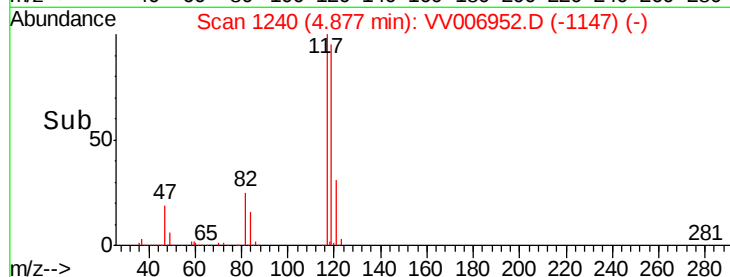
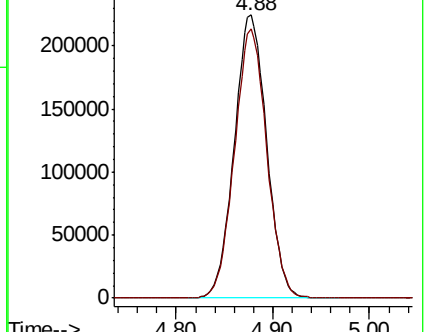
117 100

119 95.1 76.2 114.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.617 ug/L

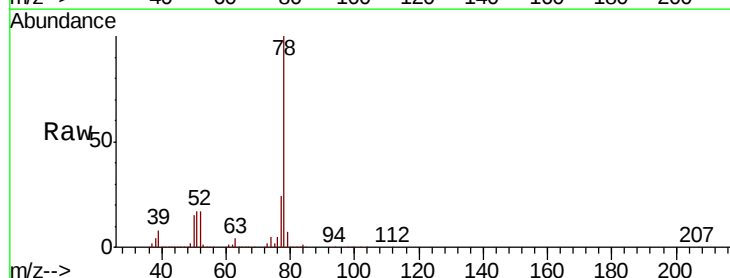
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

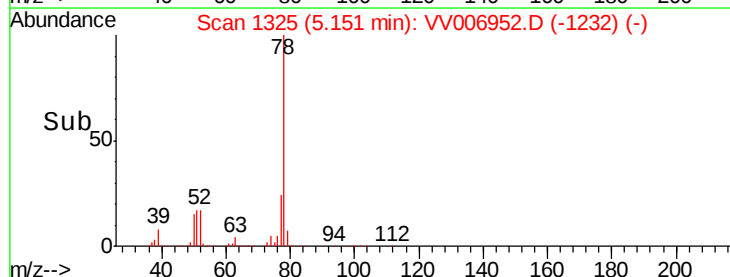
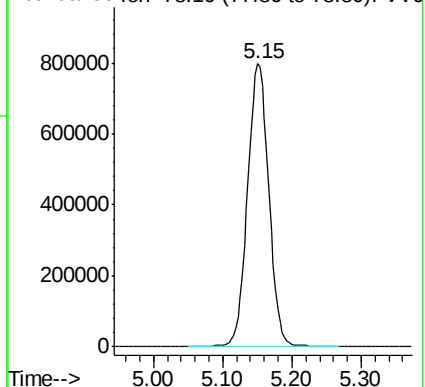
Lab File: VV006952.D

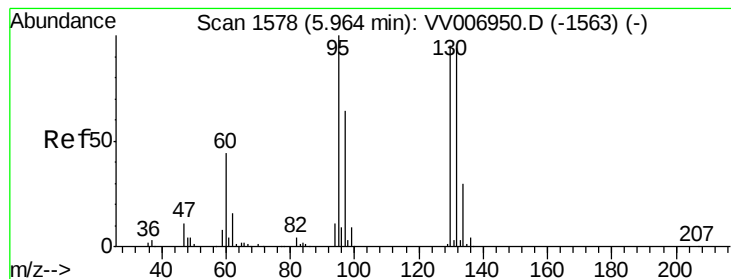
Acq: 09 Aug 2018 14:37

Tgt Ion: 78 Resp: 1699707



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 20.096 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 397279

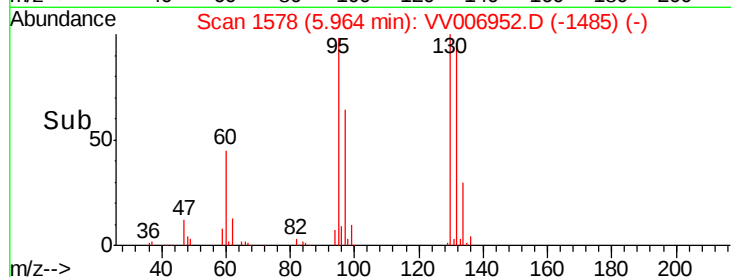
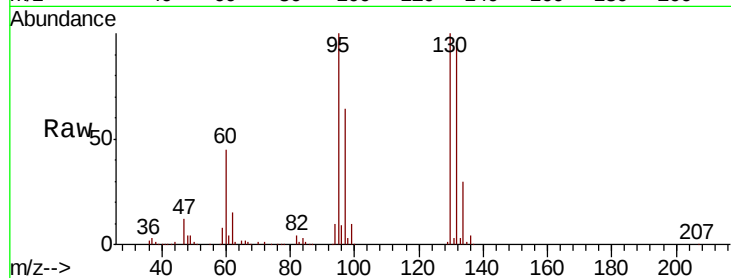
Ion Ratio Lower Upper

95 100

97 64.0 44.8 83.2

132 95.7 65.5 121.6

130 99.9 66.4 123.4



Abundance Ion 95.00 (94.70 to 95.70): VV006952.D (-1485) (-)

Ion 96.95 (96.65 to 97.65): VV006952.D (-1485) (-)

Ion 131.95 (131.65 to 132.65): VV006952.D (-1485) (-)

Ion 129.95 (129.65 to 130.65): VV006952.D (-1485) (-)

Time-->

5.96

200000

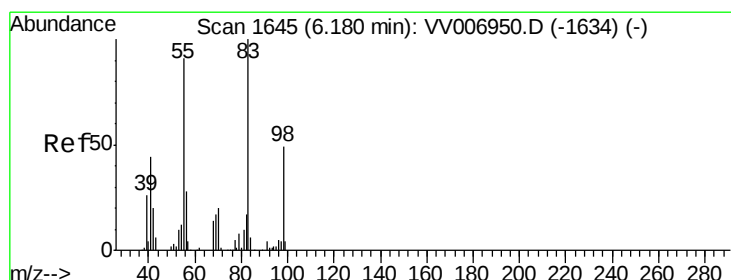
150000

100000

50000

0

5.90 6.00 6.10



#35

Methylcyclohexane

Concen: 22.907 ug/L

RT: 6.18 min Scan# 1645

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

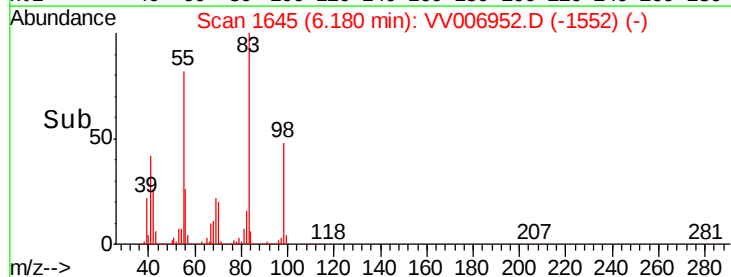
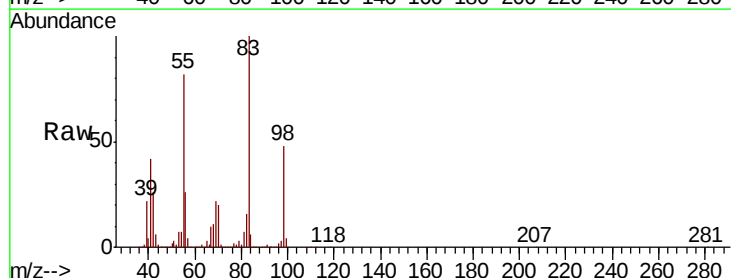
Tgt Ion: 83 Resp: 726993

Ion Ratio Lower Upper

83 100

55 82.6 68.1 102.1

98 47.7 37.9 56.9



Abundance Ion 83.15 (82.85 to 83.85): VV006952.D (-1552) (-)

Ion 55.10 (54.80 to 55.80): VV006952.D (-1552) (-)

Ion 98.15 (97.85 to 98.85): VV006952.D (-1552) (-)

Time-->

6.18

500000

400000

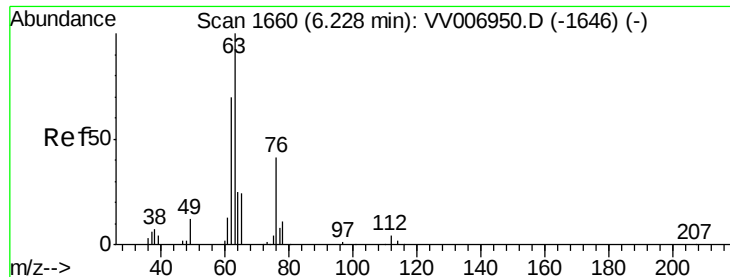
300000

200000

100000

0

6.10 6.15 6.20 6.25 6.30



#37

1,2-Dichloropropane

Concen: 20.194 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

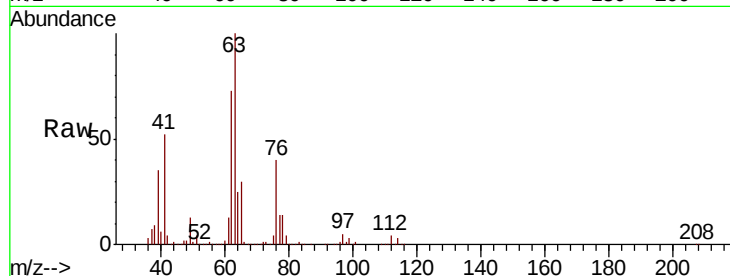
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 63 Resp: 455719

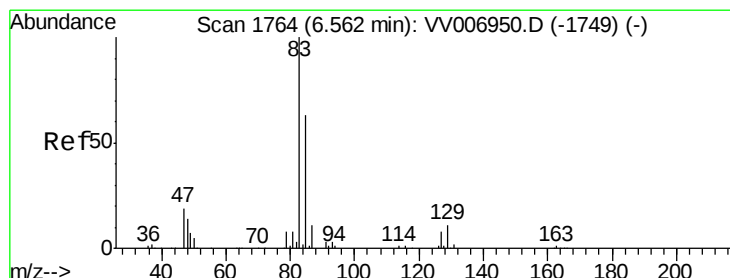
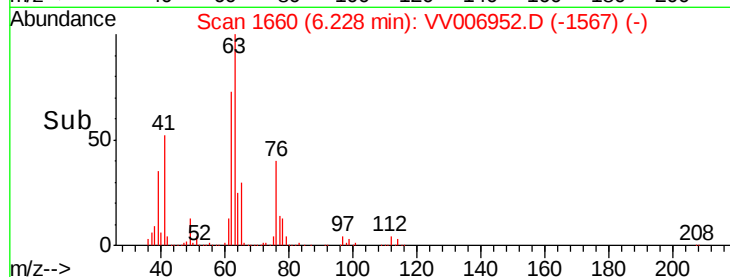
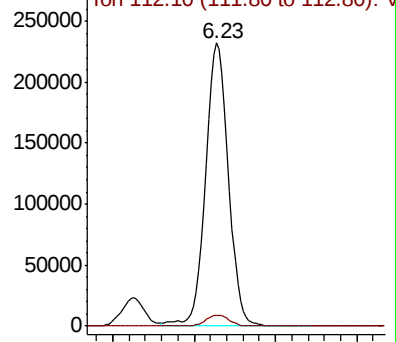
Ion Ratio Lower Upper

63 100

112 3.9 3.5 5.3



Abundance Ion 63.10 (62.80 to 63.80): VV006950.D (-1646) (-)



#38

Bromodichloromethane

Concen: 20.100 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

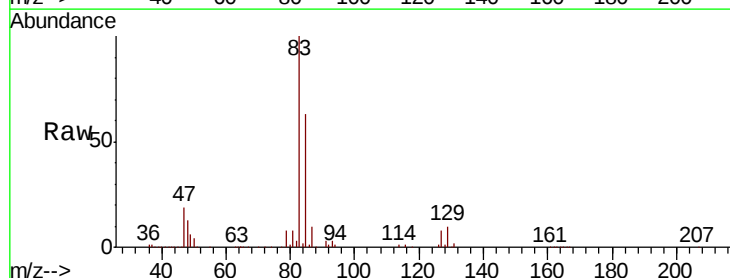
Tgt Ion: 83 Resp: 515411

Ion Ratio Lower Upper

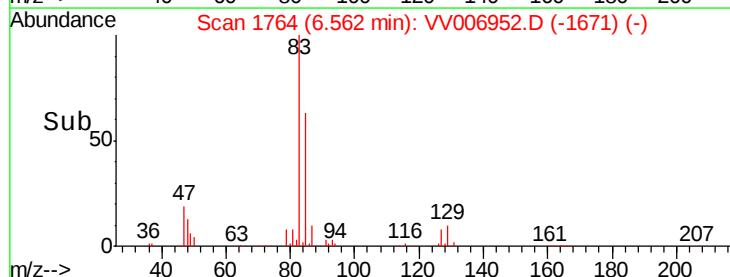
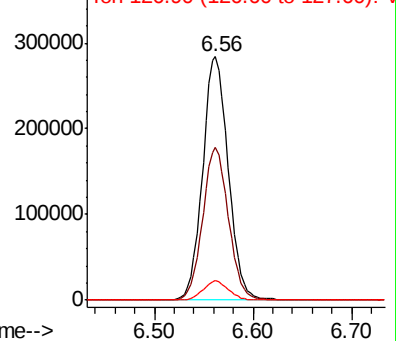
83 100

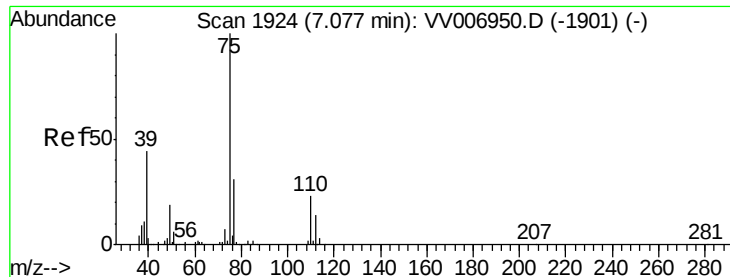
85 62.6 43.8 81.4

127 8.0 6.6 10.0



Abundance Ion 82.95 (82.65 to 83.65): VV006950.D (-1749) (-)

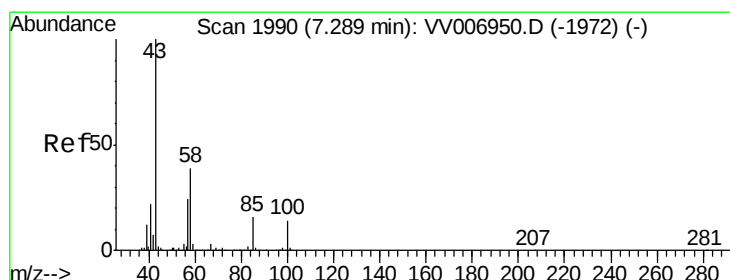
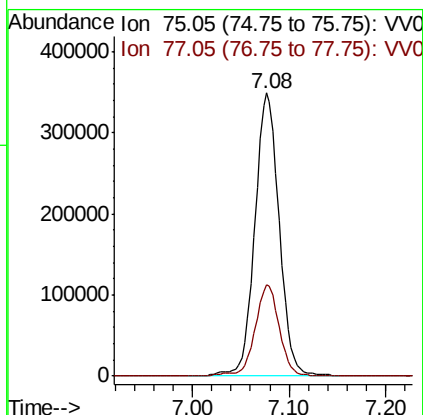
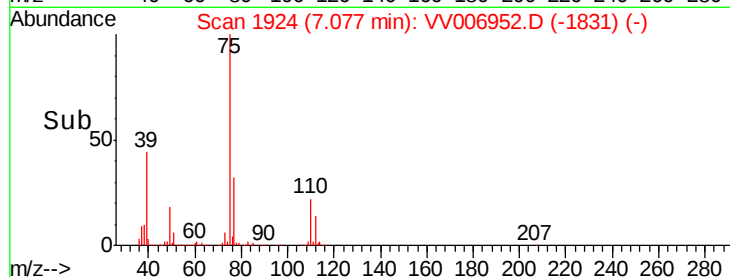
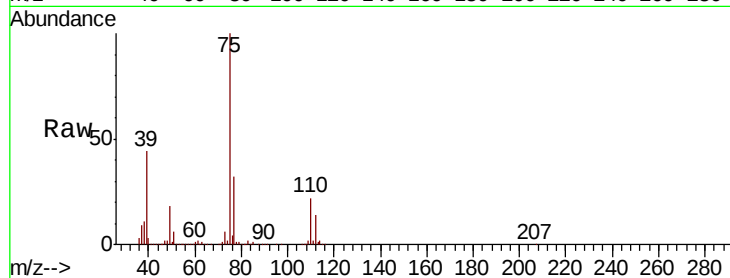




#39  
 cis-1,3-Dichloropropene  
 Concen: 22.392 ug/L  
 RT: 7.08 min Scan# 1924  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

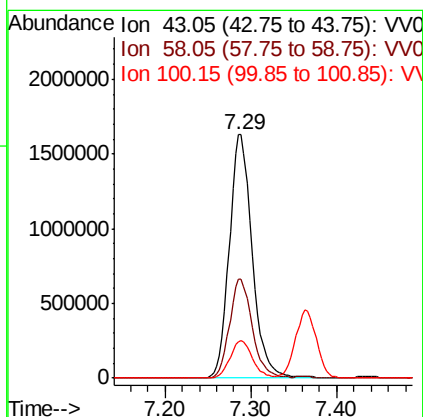
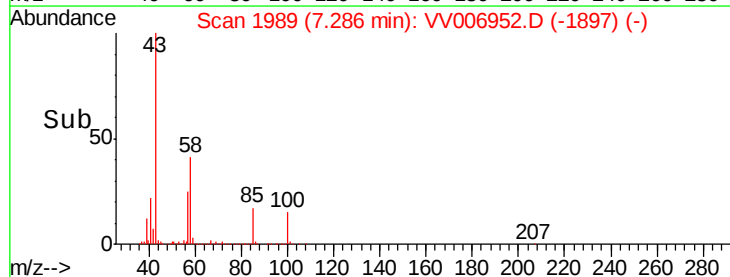
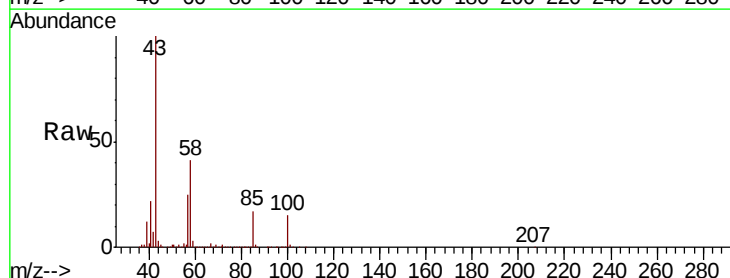
Instrument :  
 MSVOA\_V  
 ClientSampleId :

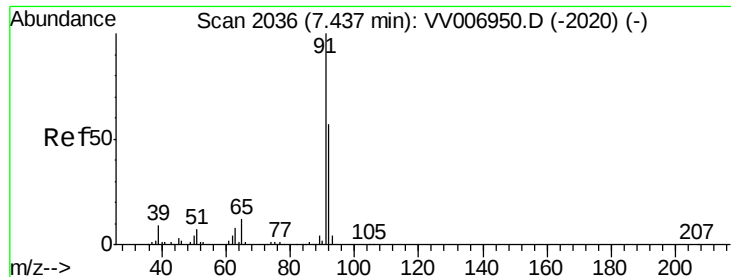
Tot Ion: 75 Resp: 610462  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 22.0 40.8



#40  
 4-Methyl-2-pentanone  
 Concen: 246.748 ug/L  
 RT: 7.29 min Scan# 1989  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

Tgt Ion: 43 Resp: 3007931  
 Ion Ratio Lower Upper  
 43 100  
 58 40.3 30.7 46.1  
 100 15.0 11.2 16.8





#42

Toluene

Concen: 21.735 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

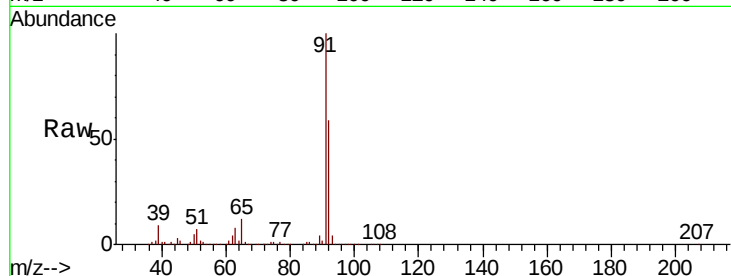
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 91 Resp: 1721919

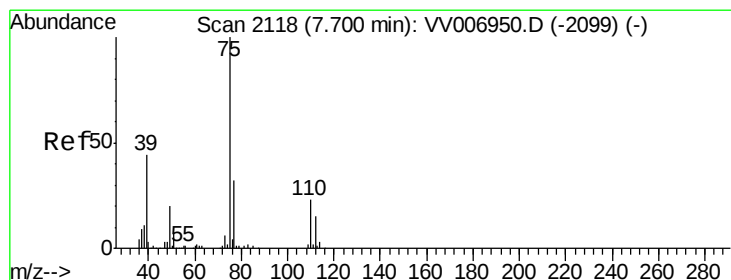
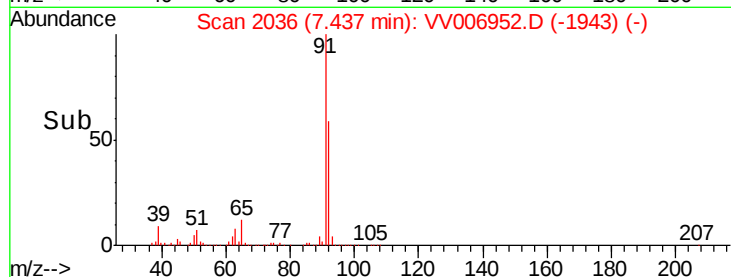
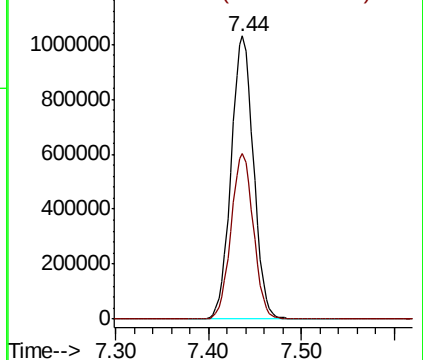
Ion Ratio Lower Upper

91 100

92 58.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV0  
Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 22.698 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006952.D

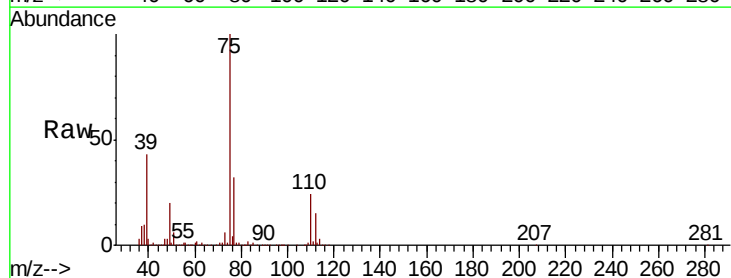
Acq: 09 Aug 2018 14:37

Tgt Ion: 75 Resp: 507923

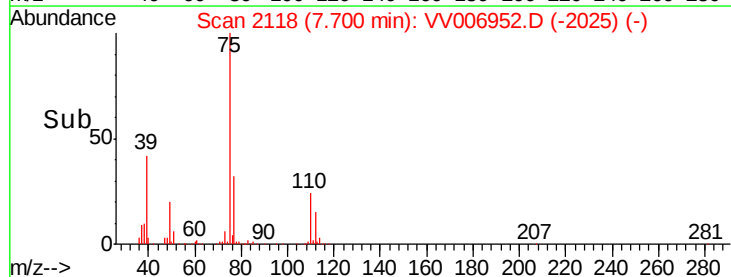
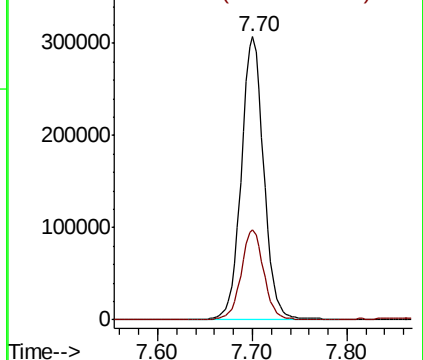
Ion Ratio Lower Upper

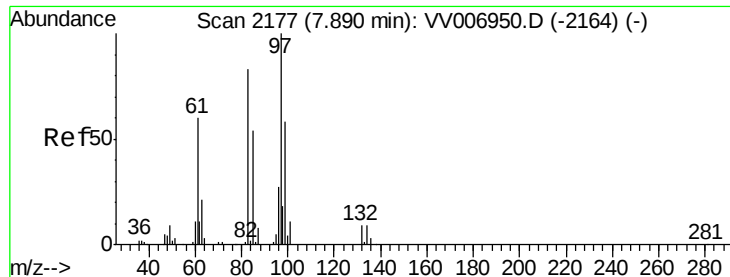
75 100

77 31.8 22.3 41.3



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

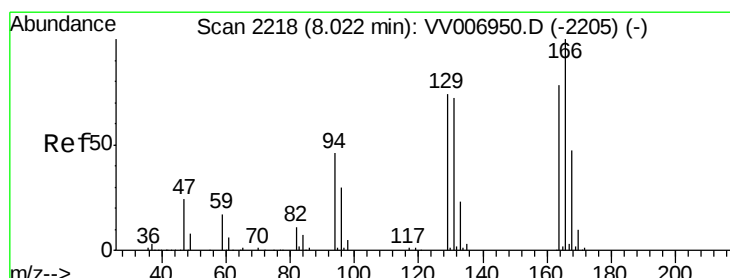
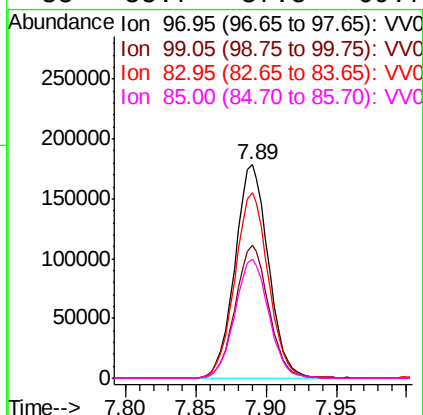
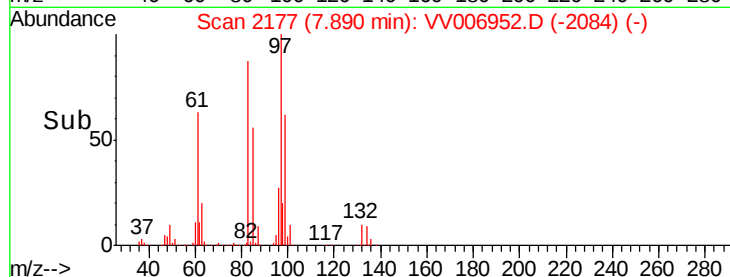
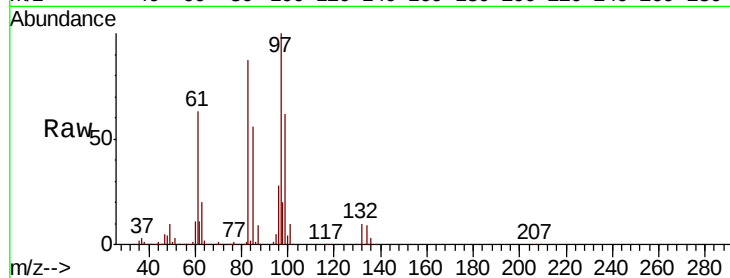




#45  
 1,1,2-Trichloroethane  
 Concen: 20.207 ug/L  
 RT: 7.89 min Scan# 2177  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

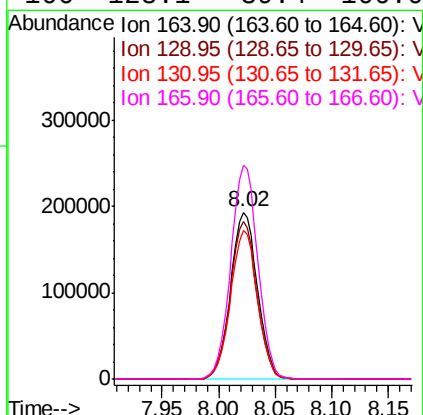
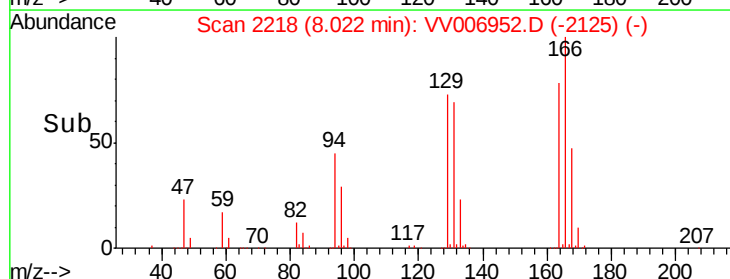
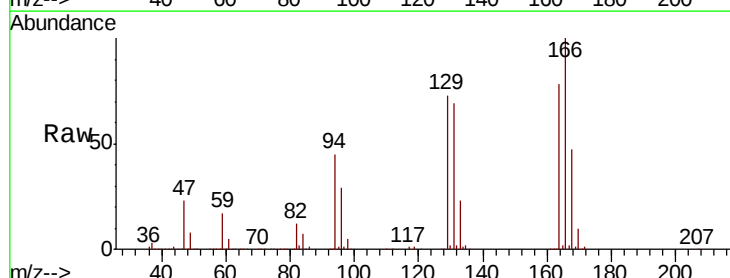
Instrument :  
 MSVOA\_V  
 ClientSampleId :

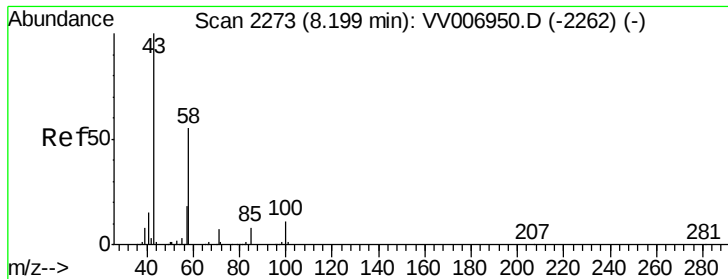
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 296655 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 62.3  | 40.6  | 75.4   |
| 83       | 87.1  | 58.0  | 107.8  |
| 85       | 55.7  | 37.5  | 69.7   |



#47  
 Tetrachloroethene  
 Concen: 19.891 ug/L  
 RT: 8.02 min Scan# 2218  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 318822 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 94.1  | 65.9  | 122.3  |
| 131      | 88.9  | 64.2  | 119.2  |
| 166      | 128.1 | 89.4  | 166.0  |

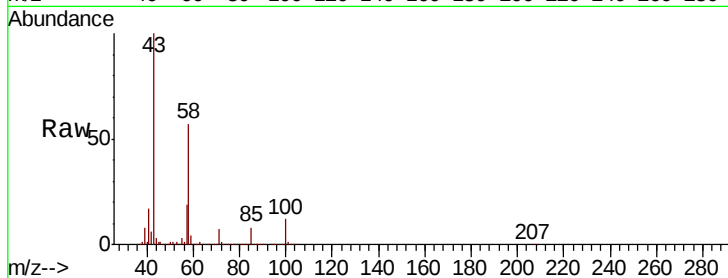




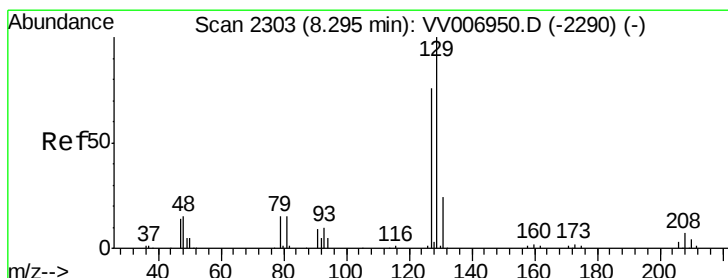
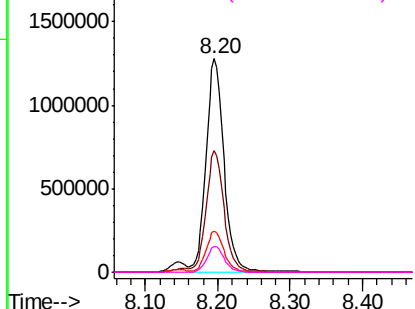
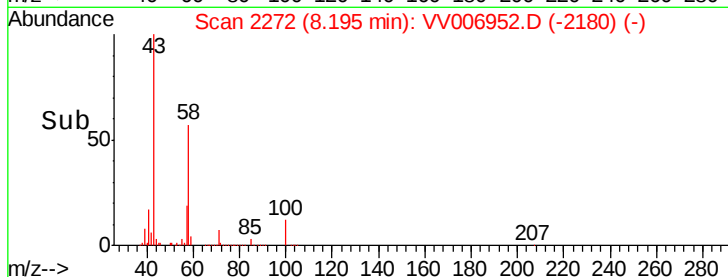
#48  
2-Hexanone  
Concen: 254.744 ug/L  
RT: 8.20 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 2190176  
Ion Ratio Lower Upper  
43 100  
58 56.4 44.2 66.2  
57 19.3 14.8 22.2  
100 11.7 8.8 13.2

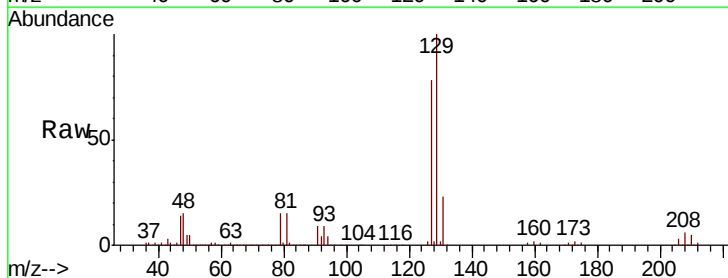


Abundance Ion 43.05 (42.75 to 43.75): VV006952.D (-2262) (-)  
Ion 58.05 (57.75 to 58.75): VV006952.D (-2262) (-)  
Ion 57.20 (56.90 to 57.90): VV006952.D (-2262) (-)  
Ion 100.15 (99.85 to 100.85): VV006952.D (-2262) (-)

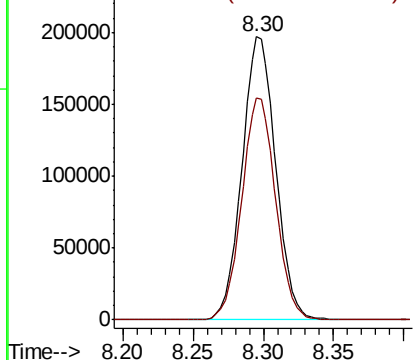
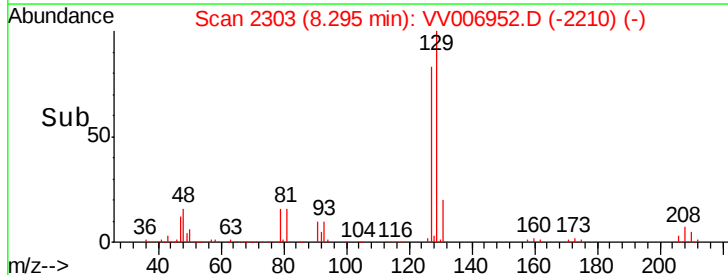


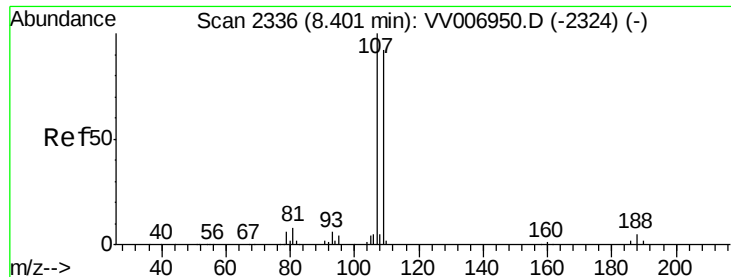
#49  
Dibromochloromethane  
Concen: 21.430 ug/L  
RT: 8.30 min Scan# 2303  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

Tgt Ion: 129 Resp: 330033  
Ion Ratio Lower Upper  
129 100  
127 78.4 53.3 98.9



Abundance Ion 128.95 (128.65 to 129.65): VV006952.D (-2290) (-)  
Ion 126.90 (126.60 to 127.60): VV006952.D (-2290) (-)

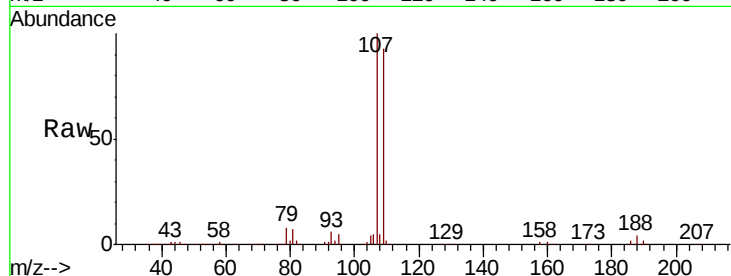




#50  
1,2-Dibromoethane  
Concen: 21.232 ug/L  
RT: 8.40 min Scan# 2336  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

Instrument :  
MSVOA\_V  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.7  | 64.1  | 119.1 |
| 188     | 3.7   | 4.0   | 6.0   |

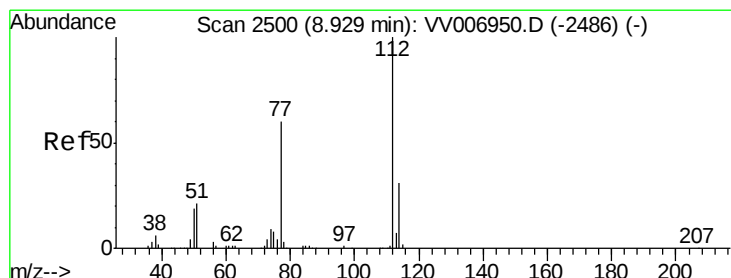
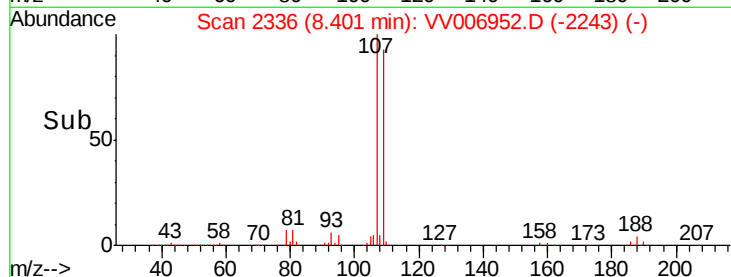
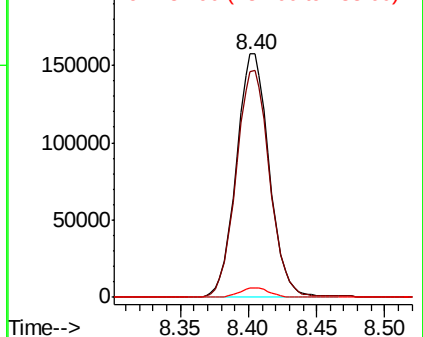


Abundance

Ion 106.95 (106.65 to 107.65): V

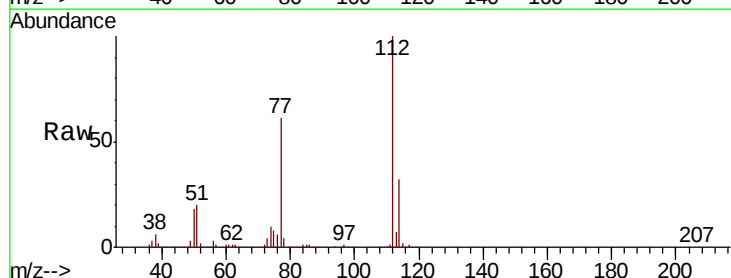
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51  
Chlorobenzene  
Concen: 20.747 ug/L  
RT: 8.93 min Scan# 2501  
Delta R.T. 0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.7  | 21.8  | 40.6  |
| 77      | 60.9  | 48.0  | 72.0  |

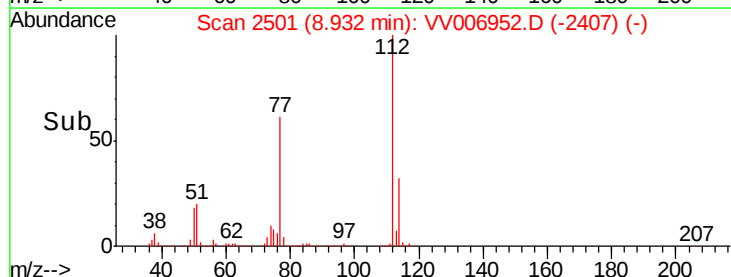
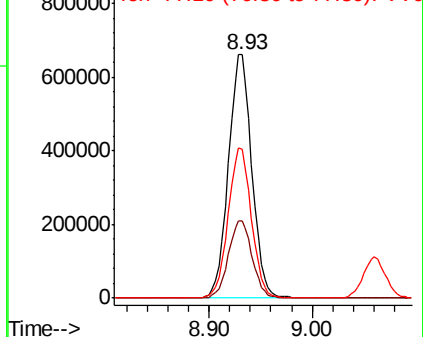


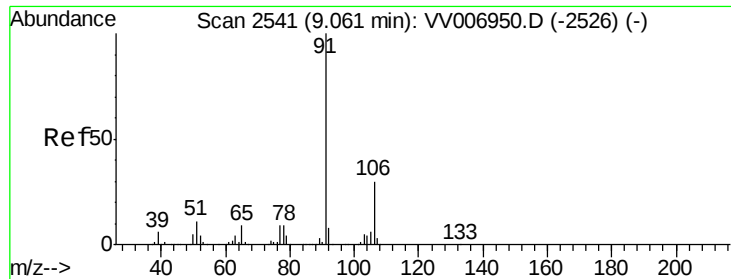
Abundance

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): VV0





#52

Ethylbenzene

Concen: 23.418 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

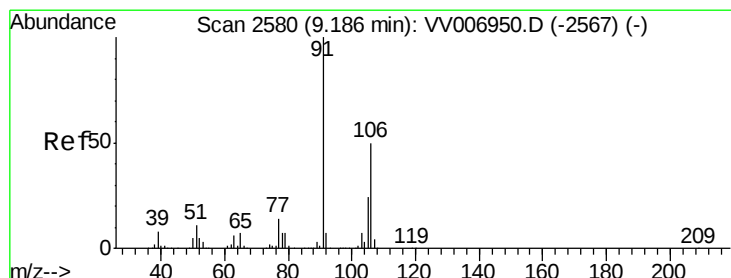
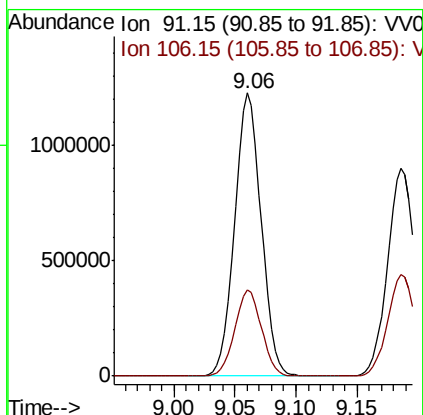
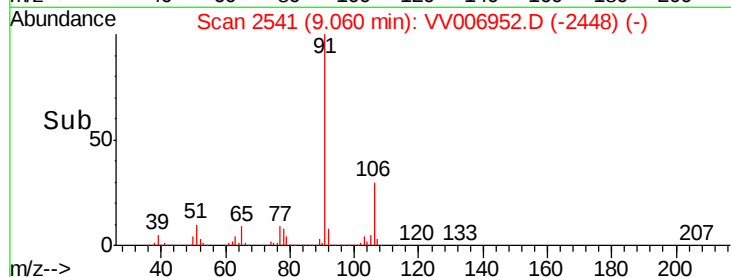
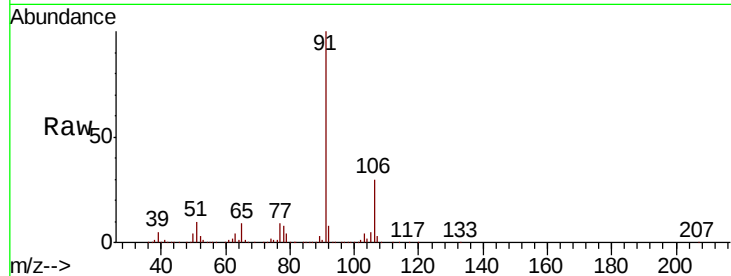
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 1852572

Ion Ratio Lower Upper

91 100

106 30.5 21.3 39.5



#53

m,p-xylene

Concen: 23.707 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006952.D

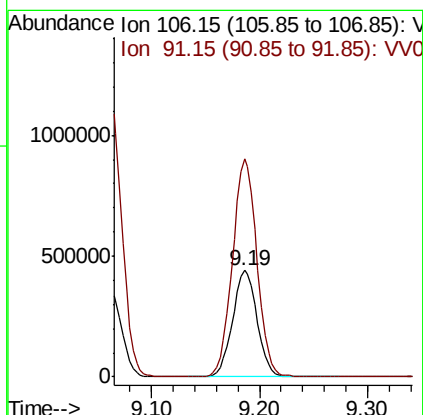
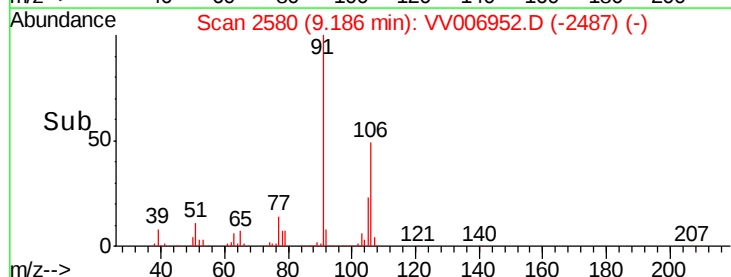
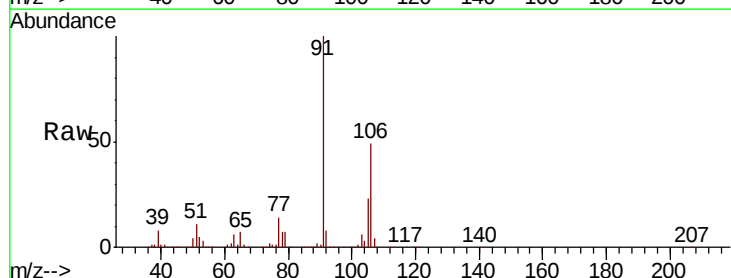
Acq: 09 Aug 2018 14:37

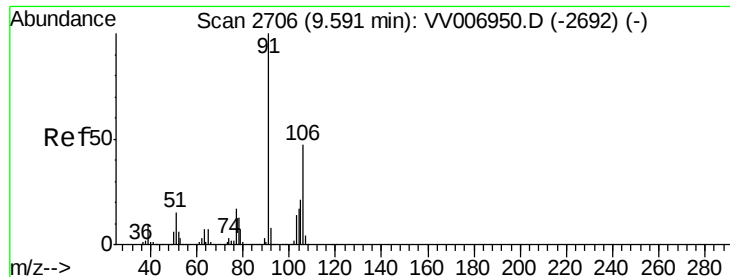
Tgt Ion:106 Resp: 699121

Ion Ratio Lower Upper

106 100

91 204.5 141.6 263.0





#54

o-xylene

Concen: 23.815 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

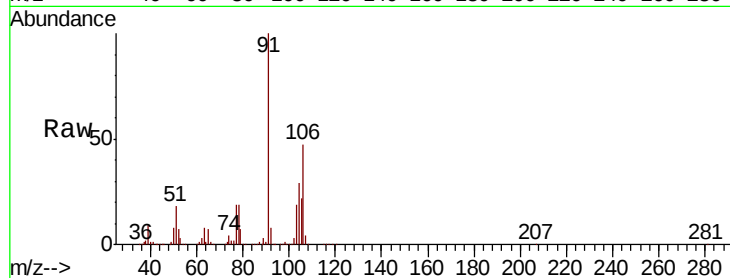
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 665453

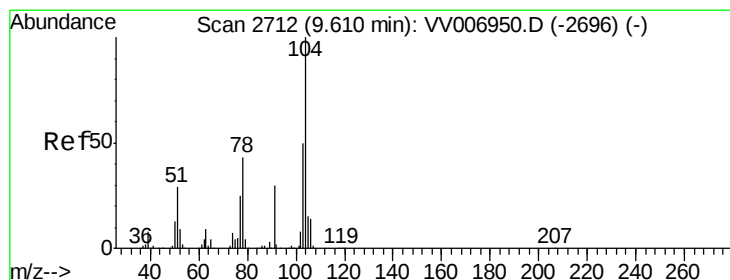
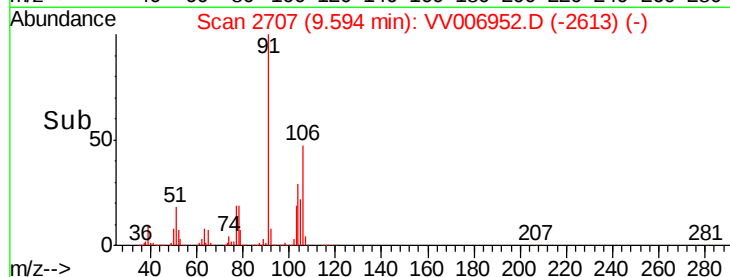
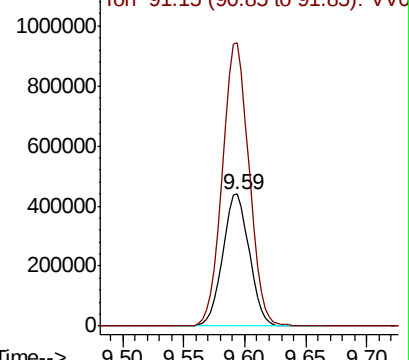
Ion Ratio Lower Upper

106 100

91 214.2 149.8 278.2



Abundance Ion 106.15 (105.85 to 106.85): V



#55

Styrene

Concen: 25.281 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. -0.00 min

Lab File: VV006952.D

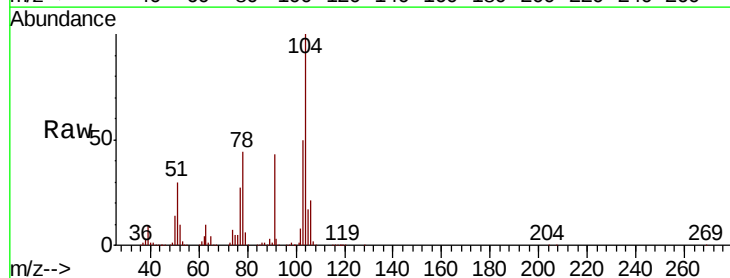
Acq: 09 Aug 2018 14:37

Tgt Ion:104 Resp: 1190831

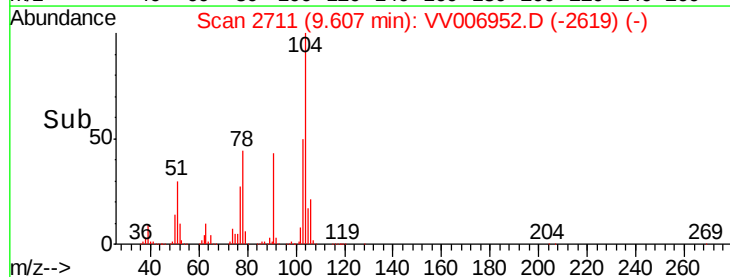
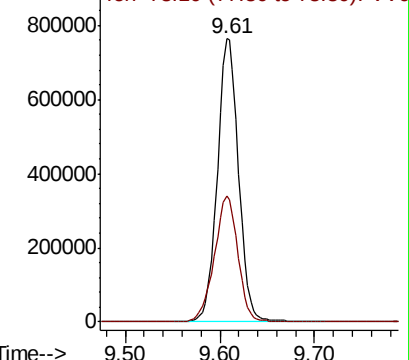
Ion Ratio Lower Upper

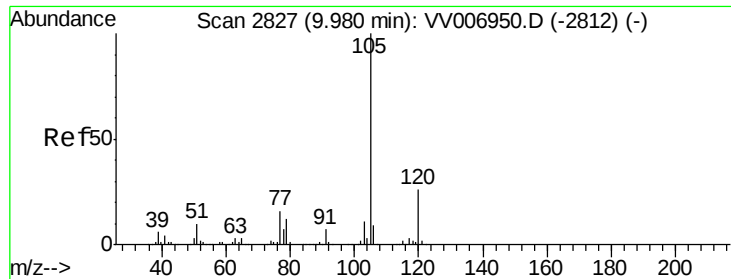
104 100

78 44.4 30.4 56.5



Abundance Ion 104.10 (103.80 to 104.80): V

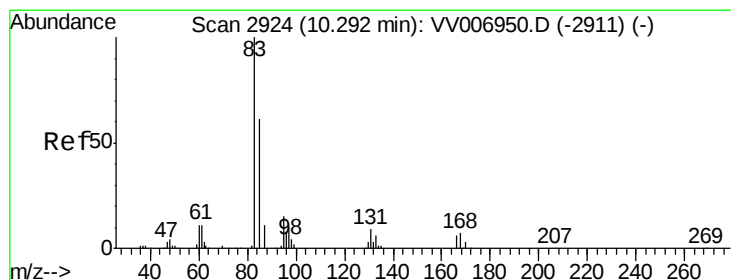
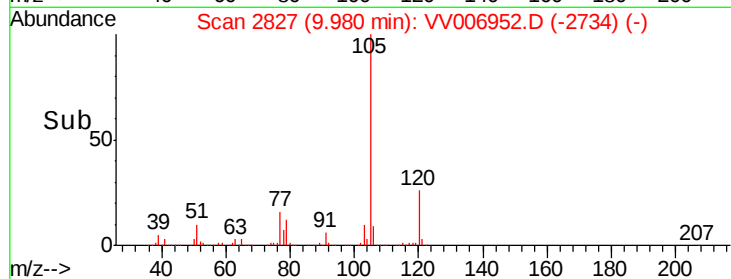
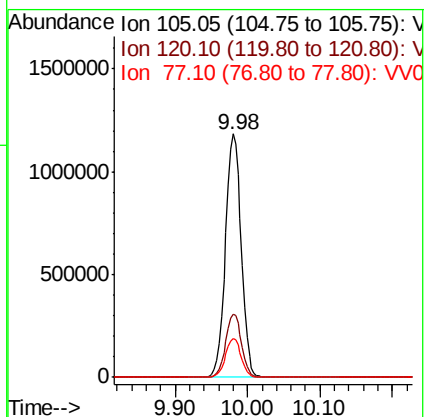
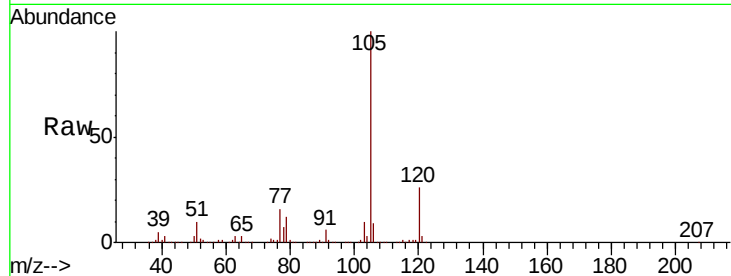




#56  
Isopropylbenzene  
Concen: 24.236 ug/L  
RT: 9.98 min Scan# 2827  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

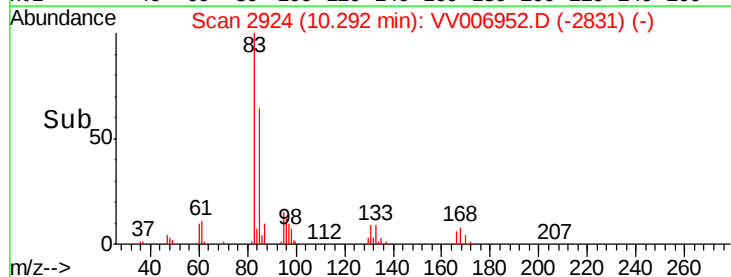
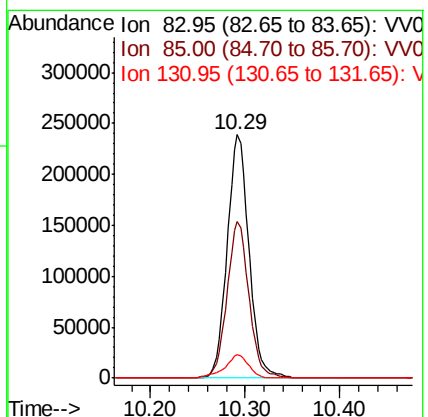
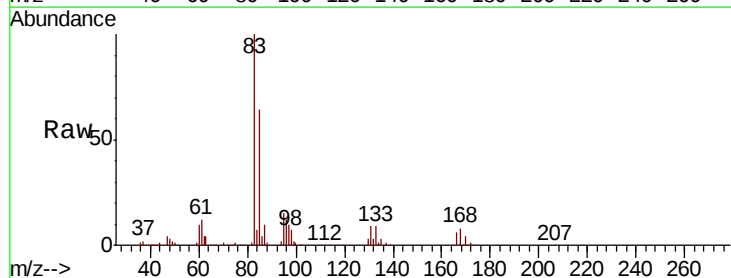
Instrument :  
MSVOA\_V  
ClientSampleId :

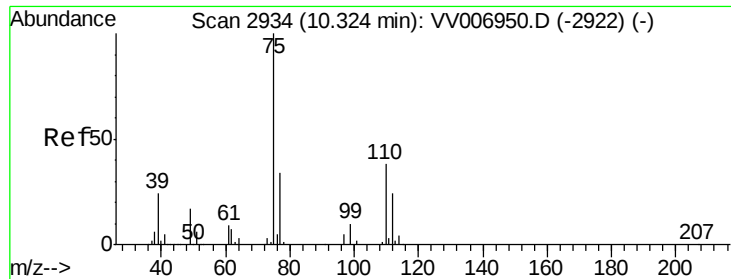
Tot Ion:105 Resp: 1776811  
Ion Ratio Lower Upper  
105 100  
120 26.0 21.1 31.7  
77 15.9 13.0 19.4



#58  
1,1,2,2-Tetrachloroethane  
Concen: 21.459 ug/L  
RT: 10.29 min Scan# 2924  
Delta R.T. -0.00 min  
Lab File: VV006952.D  
Acq: 09 Aug 2018 14:37

Tgt Ion: 83 Resp: 382903  
Ion Ratio Lower Upper  
83 100  
85 64.4 43.0 79.8  
131 9.5 7.4 11.2





#59

1,2,3-Trichloropropane

Concen: 22.114 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

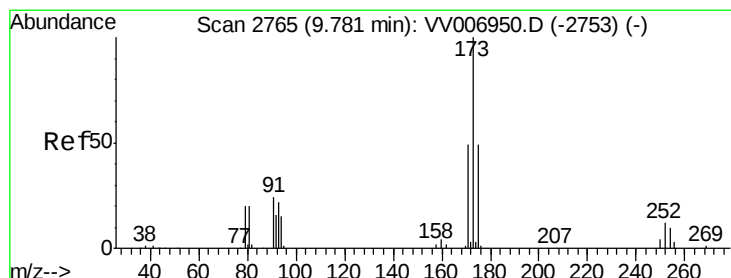
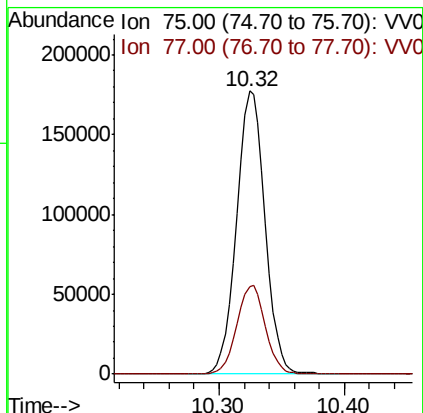
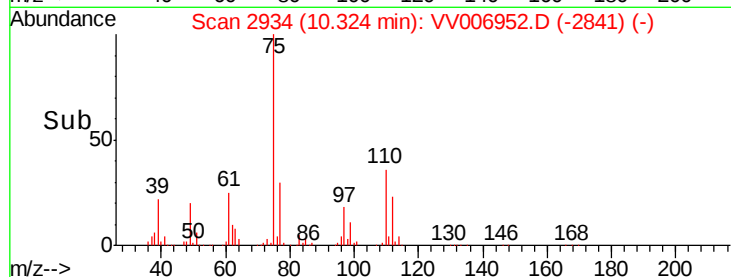
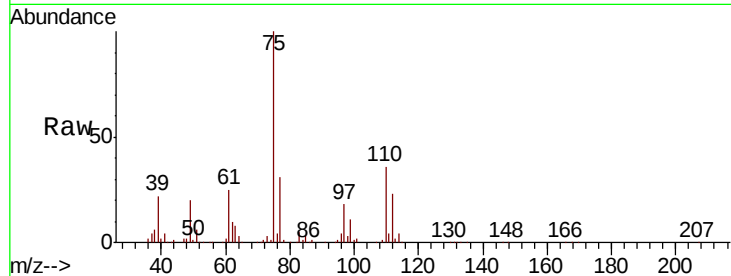
ClientSampleId :

Tot Ion: 75 Resp: 279344

Ion Ratio Lower Upper

75 100

77 31.2 25.4 38.0



#61

Bromoform

Concen: 19.871 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

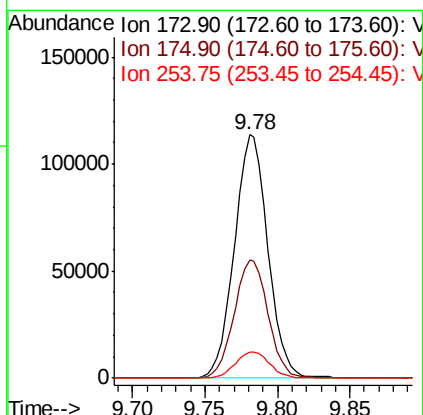
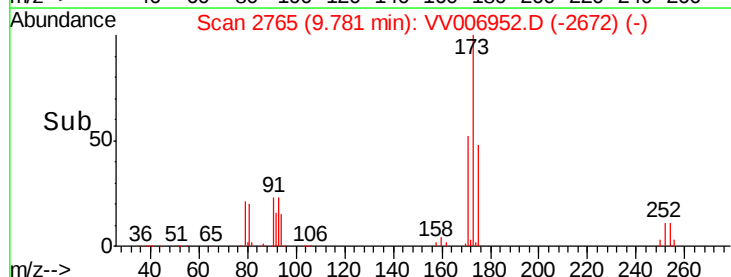
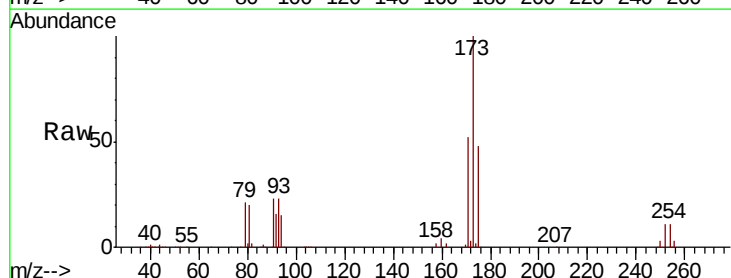
Tgt Ion:173 Resp: 181787

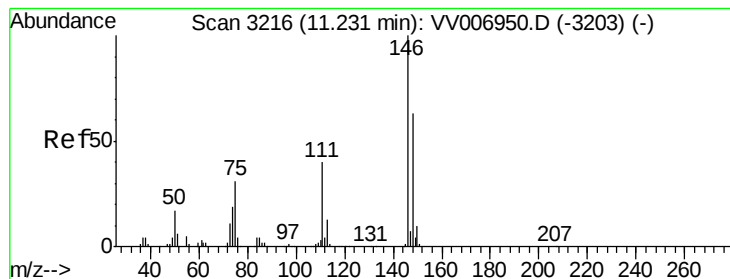
Ion Ratio Lower Upper

173 100

175 49.1 39.3 58.9

254 11.1 8.3 12.5





#62

1,3-Dichlorobenzene

Concen: 19.905 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

ClientSampleId :

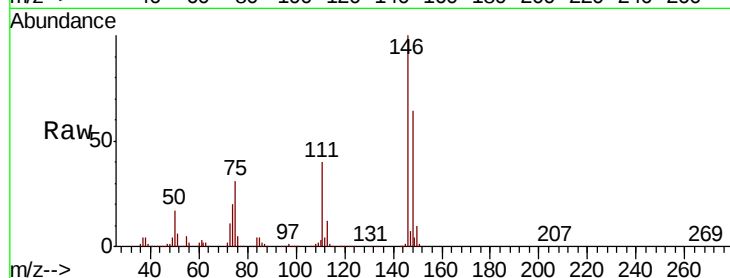
Tot Ion:146 Resp: 778012

Ion Ratio Lower Upper

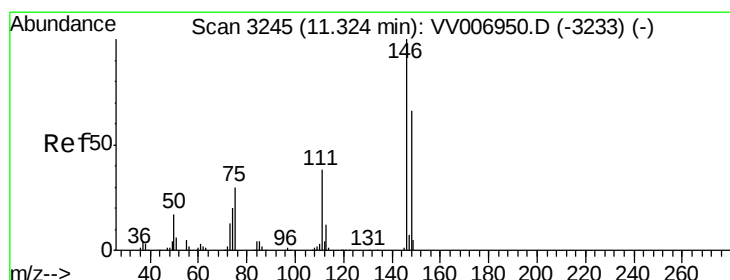
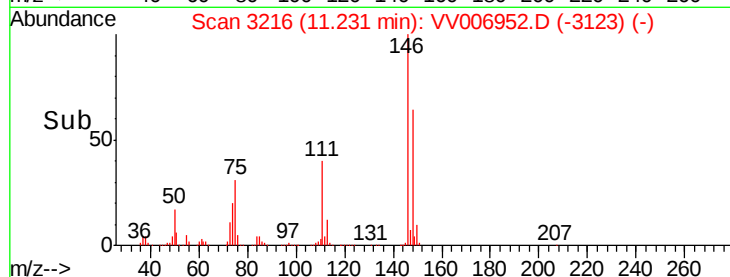
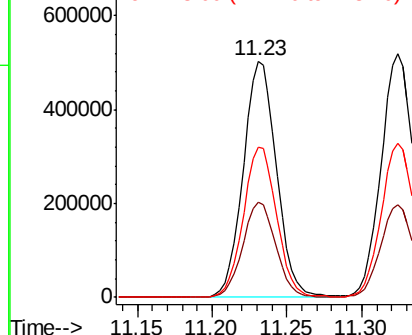
146 100

111 40.3 28.1 52.3

148 63.9 44.2 82.2



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



#63

1,4-Dichlorobenzene

Concen: 20.108 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

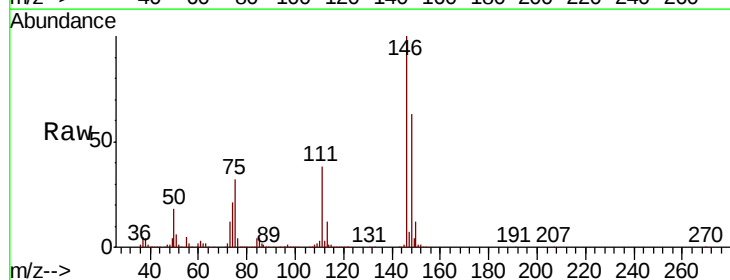
Tgt Ion:146 Resp: 805551

Ion Ratio Lower Upper

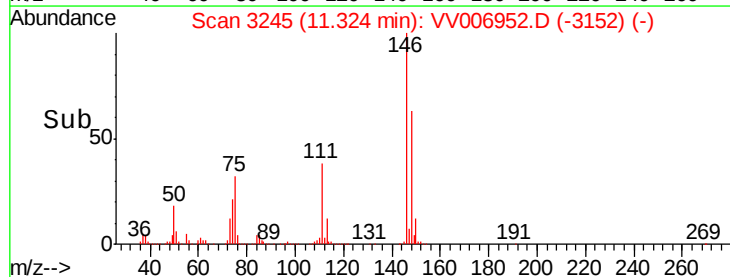
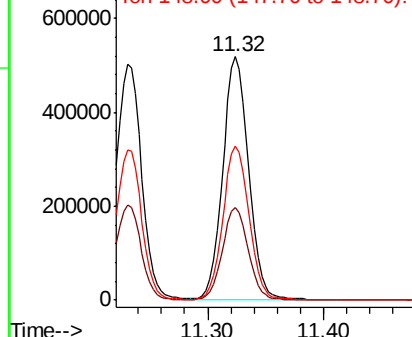
146 100

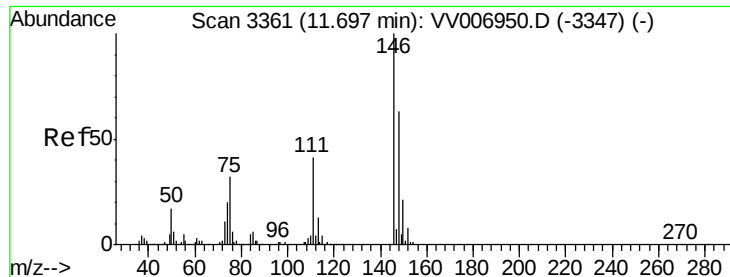
111 38.2 26.6 49.4

148 63.4 46.4 86.2



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





#65

1,2-Dichlorobenzene

Concen: 20.178 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

ClientSampleId :

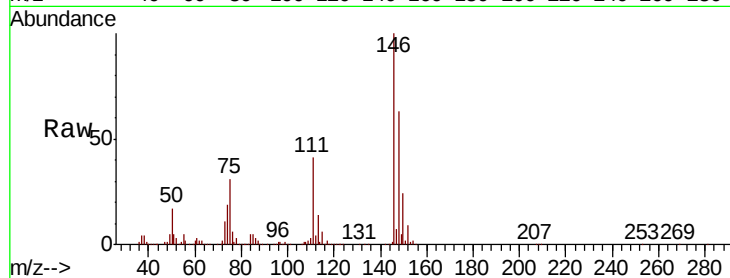
Tot Ion:146 Resp: 775772

Ion Ratio Lower Upper

146 100

111 41.2 33.0 49.6

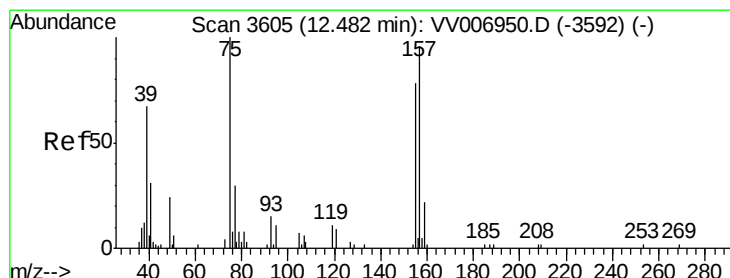
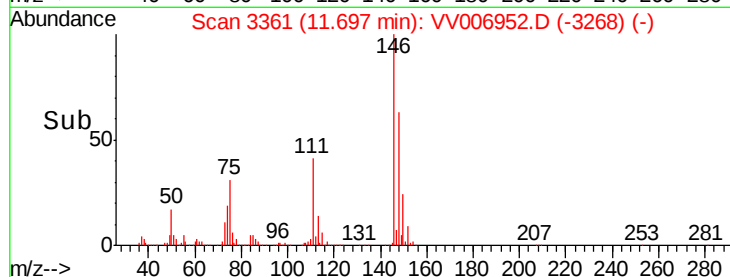
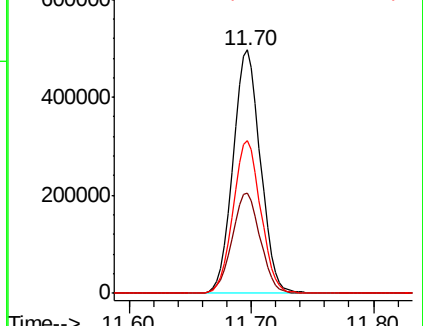
148 62.9 50.6 75.8



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: 20.581 ug/L

RT: 12.48 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

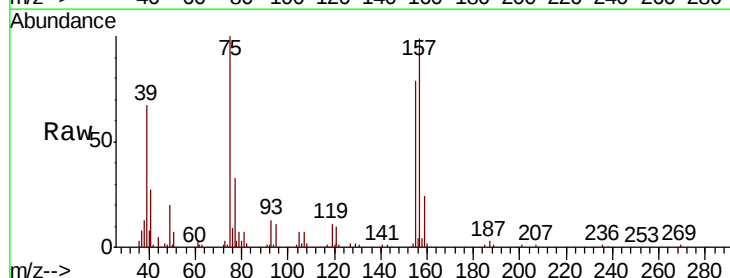
Tgt Ion: 75 Resp: 56174

Ion Ratio Lower Upper

75 100

155 78.8 62.6 94.0

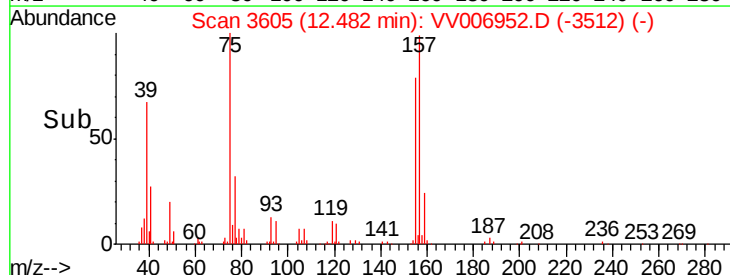
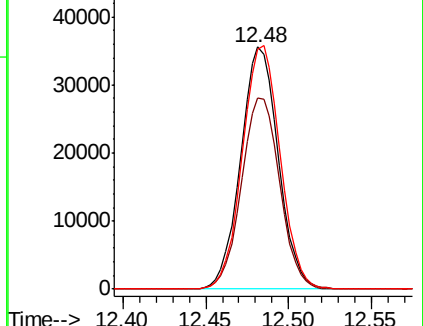
157 99.3 77.0 115.6

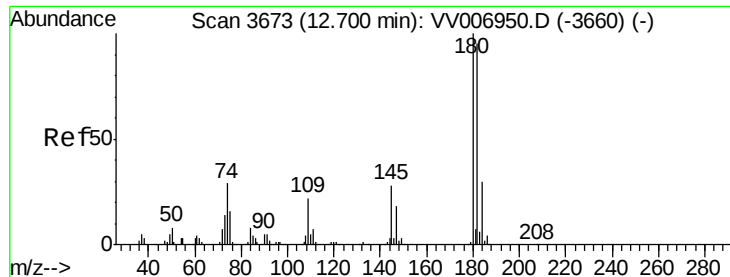


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

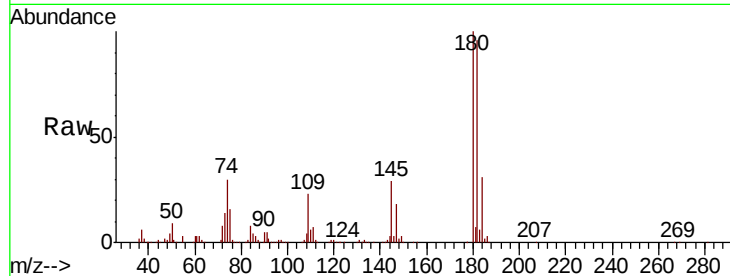




#67  
 1,3,5-Trichlorobenzene  
 Concen: 20.744 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 75.1  | 112.7 |
| 184     | 30.5  | 23.8  | 35.8  |
| 145     | 28.7  | 21.9  | 32.9  |



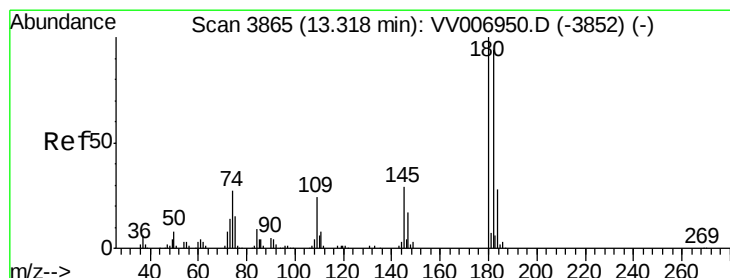
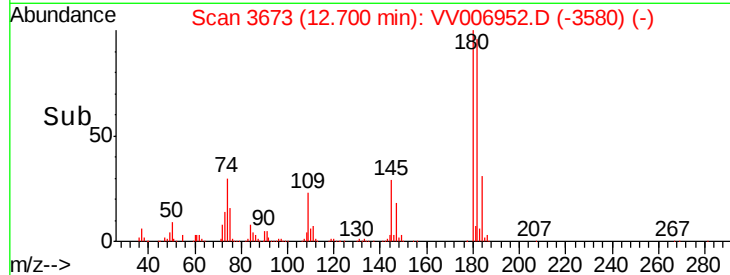
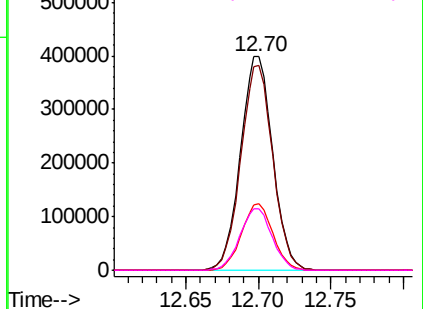
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

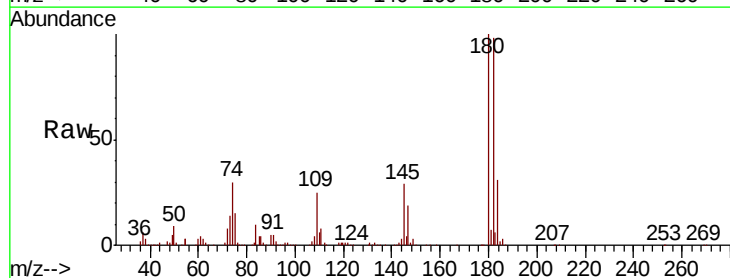
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 23.011 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. -0.00 min  
 Lab File: VV006952.D  
 Acq: 09 Aug 2018 14:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.3  | 76.5  | 114.7 |
| 145     | 29.1  | 23.6  | 35.4  |

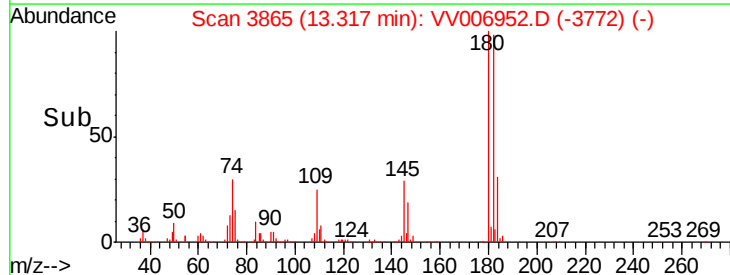
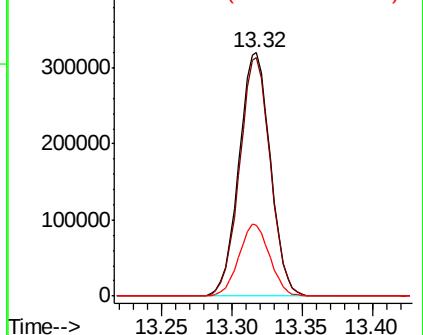


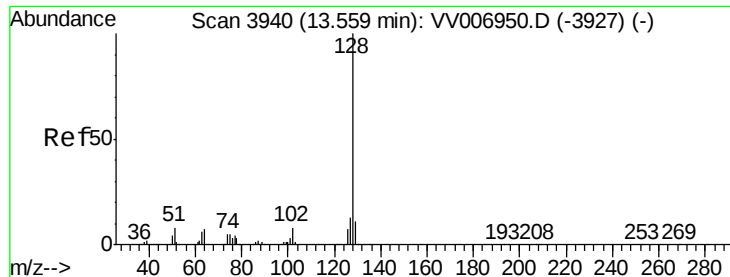
Abundance

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: 27.594 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

Instrument :

MSVOA\_V

ClientSampleId :

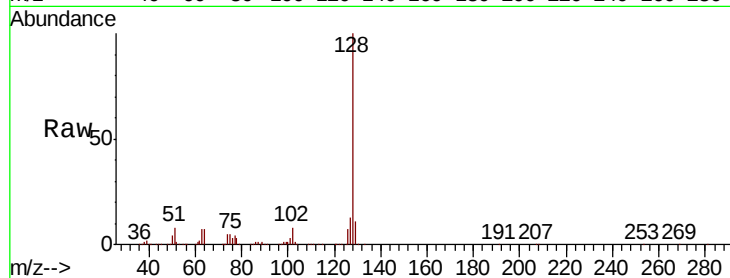
Tot Ion:128 Resp: 860303

Ion Ratio Lower Upper

128 100

129 10.8 8.5 12.7

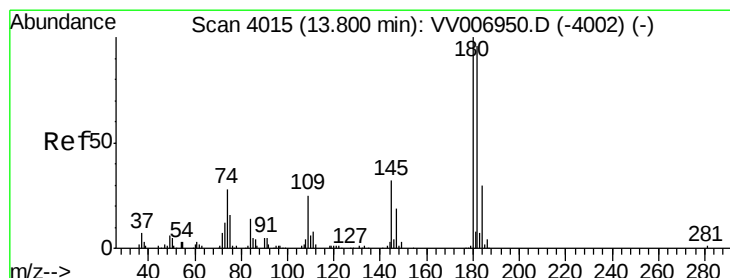
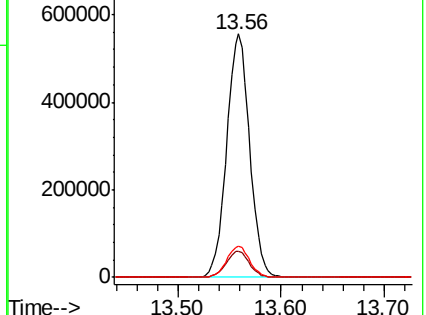
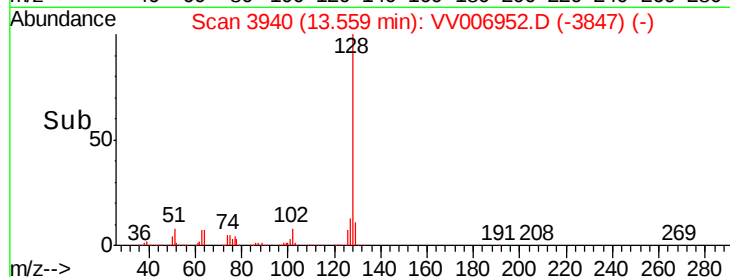
127 13.0 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.270 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006952.D

Acq: 09 Aug 2018 14:37

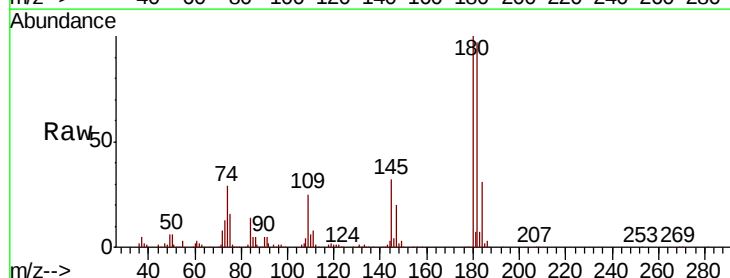
Tgt Ion:180 Resp: 486980

Ion Ratio Lower Upper

180 100

182 95.7 76.1 114.1

145 31.5 24.6 36.8



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

