

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV071918\  
 Data File : VV006638.D  
 Acq On : 19 Jul 2018 12:36  
 Operator : SY/MD  
 Sample : VSTD0.564  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

Quant Time: Jul 20 04:43:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 20 04:43:40 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 260479   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 235384   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 103392   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 8483  | 0.46 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 6916  | 0.56 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.14  | 63  | 16765 | 0.48 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.95  | 46  | 17419 | 4.39 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 14570 | 0.47 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 6735  | 0.46 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 29829 | 0.47 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 9424  | 0.48 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 26467 | 0.45 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 2660  | 0.40 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 12921 | 3.85 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 6685  | 0.46 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 8897  | 0.48 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 10605 | 0.505 ug/L # | 83     |
| 3) Chloromethane               | 1.26 | 50  | 8981  | 0.429 ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 12122 | 0.448 ug/L # | 58     |
| 6) Bromomethane                | 1.54 | 94  | 5204  | 0.679 ug/L   | 100    |
| 8) Chloroethane                | 1.60 | 64  | 8080  | 0.520 ug/L # | 79     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 14235 | 0.438 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 9072  | 0.446 ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 8975  | 0.465 ug/L   | 97     |
| 13) Acetone                    | 2.20 | 43  | 14297 | 4.695 ug/L   | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 29360 | 0.469 ug/L   | 98     |
| 15) Methyl Acetate             | 2.46 | 43  | 3892  | 0.436 ug/L   | 99     |
| 16) Methylene chloride         | 2.54 | 84  | 16113 | 0.664 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 20484 | 0.430 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 9900  | 0.466 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 16992 | 0.453 ug/L   | 100    |
| 21) 2-Butanone                 | 4.04 | 43  | 22321 | 4.377 ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 9574  | 0.430 ug/L   | 97     |
| 23) Bromochloromethane         | 4.30 | 128 | 3926  | 0.433 ug/L   | 96     |
| 25) Chloroform                 | 4.43 | 83  | 15953 | 0.441 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 9092  | 0.430 ug/L   | 99     |
| 29) 1,1,1-Trichloroethane      | 4.67 | 97  | 12616 | 0.429 ug/L   | 98     |
| 30) Cyclohexane                | 4.73 | 56  | 13517 | 0.411 ug/L   | 97     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 10688 | 0.425 ug/L   | 98     |
| 33) Benzene                    | 5.15 | 78  | 35933 | 0.434 ug/L   | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 9464  | 0.452 ug/L   | 99     |
| 35) Methylcyclohexane          | 6.18 | 83  | 13718 | 0.392 ug/L   | 97     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 9361  | 0.443 ug/L # | 94     |
| 38) Bromodichloromethane       | 6.56 | 83  | 10012 | 0.427 ug/L   | 97     |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 10673 | 0.384 ug/L   | 96     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 45481 | 3.983 ug/L   | 97     |

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 Operator : SY/MD  
 Sample : VSTD0.564  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

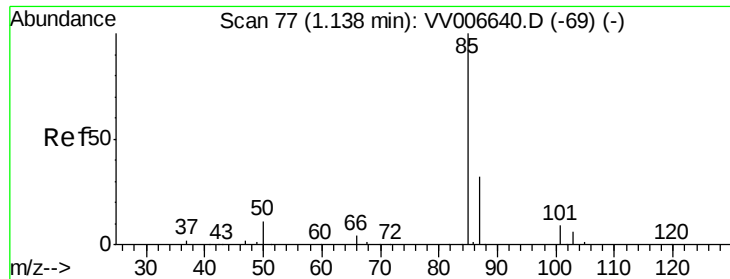
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

Quant Time: Jul 20 04:43:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 20 04:43:40 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| -----                          |       |      |          |       |       |          |
| 42) Toluene                    | 7.44  | 91   | 35897    | 0.419 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 8016     | 0.371 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 6353     | 0.447 | ug/L  | 90       |
| 47) Tetrachloroethene          | 8.02  | 164  | 7302     | 0.434 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.19  | 43   | 29791    | 3.732 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.30  | 129  | 6163     | 0.409 | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 5457     | 0.427 | ug/L  | 93       |
| 51) Chlorobenzene              | 8.93  | 112  | 24233    | 0.436 | ug/L  | 97       |
| 52) Ethylbenzene               | 9.06  | 91   | 36701    | 0.399 | ug/L  | 100      |
| 53) m,p-xylene                 | 9.19  | 106  | 13279    | 0.380 | ug/L  | 98       |
| 54) o-xylene                   | 9.59  | 106  | 13173    | 0.387 | ug/L  | 99       |
| 55) Styrene                    | 9.61  | 104  | 20669    | 0.362 | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 33774    | 0.378 | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 7151     | 0.420 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 5519     | 0.443 | ug/L  | 97       |
| 61) Bromoform                  | 9.78  | 173  | 3103     | 0.434 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 17333    | 0.460 | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 17411    | 0.455 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 16245    | 0.450 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 969      | 0.452 | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 12659    | 0.435 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 9760     | 0.423 | ug/L  | 99       |
| 69) Naphthalene                | 13.56 | 128  | 15199    | 0.380 | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 9492     | 0.436 | ug/L  | 97       |
| -----                          |       |      |          |       |       |          |

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





#2

Dichlorodifluoromethane

Concen: 0.505 ug/L

RT: 1.14 min Scan# 78

Delta R.T. 0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

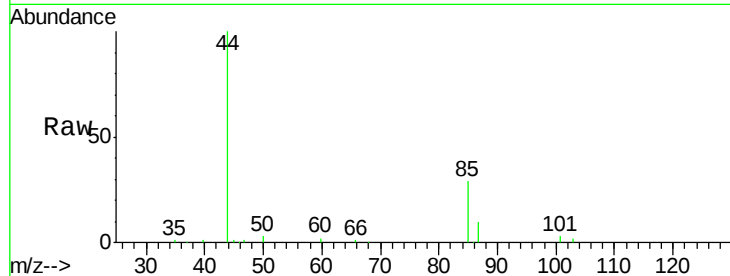
VSTD0.564

Tgt Ion: 85 Resp: 10605

Ion Ratio Lower Upper

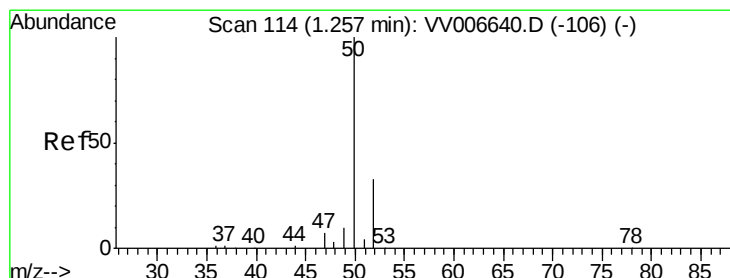
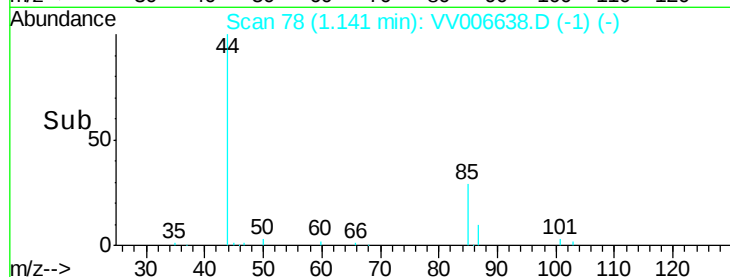
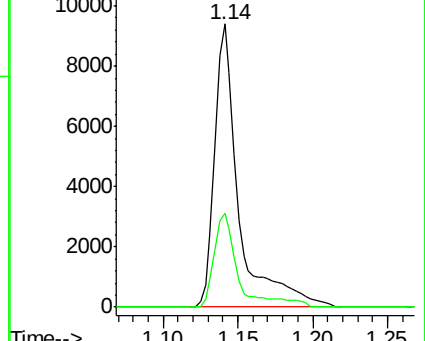
85 100

87 32.9 19.4 29.2#



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.429 ug/L

RT: 1.26 min Scan# 114

Delta R.T. -0.00 min

Lab File: VV006638.D

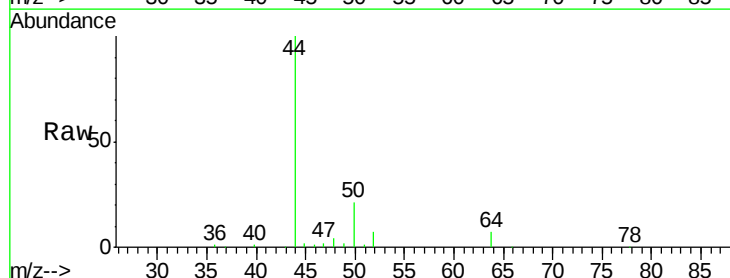
Acq: 19 Jul 2018 12:36

Tgt Ion: 50 Resp: 8981

Ion Ratio Lower Upper

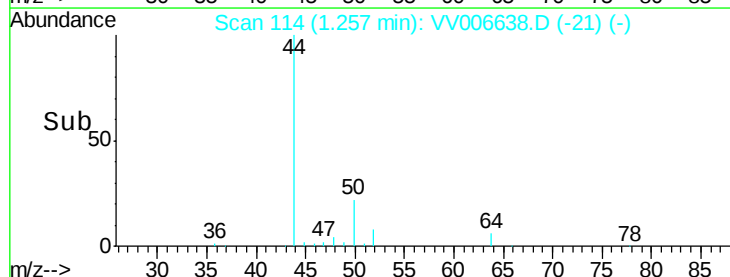
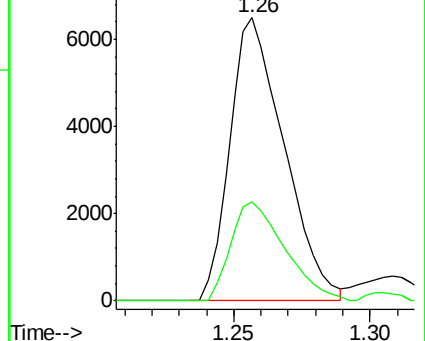
50 100

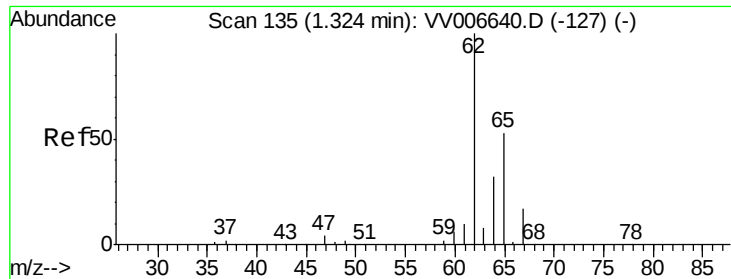
52 35.0 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 0.448 ug/L

RT: 1.32 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

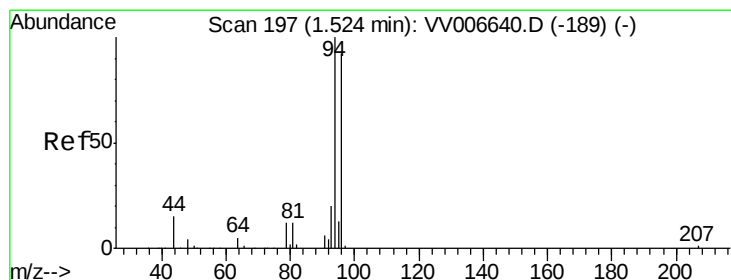
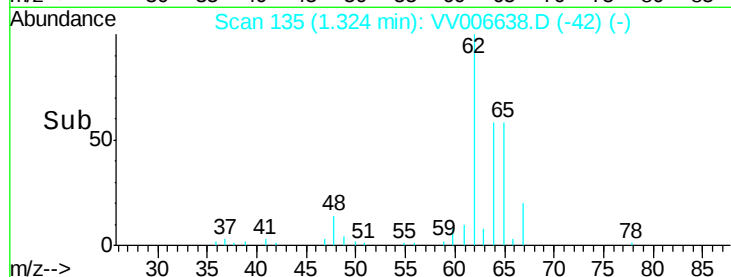
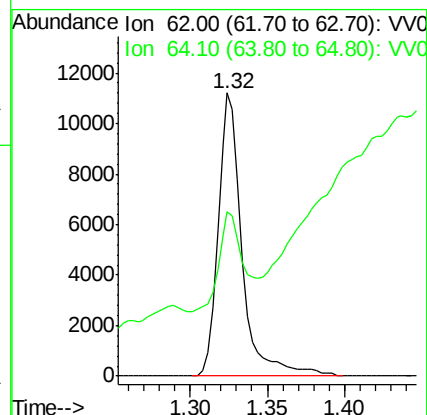
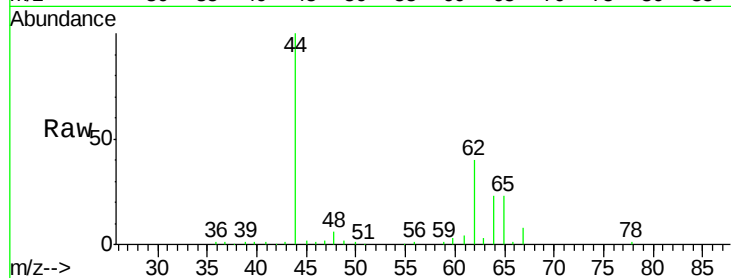
VSTD0.564

Tgt Ion: 62 Resp: 12122

Ion Ratio Lower Upper

62 100

64 58.0 23.7 44.1#



#6

Bromomethane

Concen: 0.679 ug/L

RT: 1.54 min Scan# 202

Delta R.T. 0.02 min

Lab File: VV006638.D

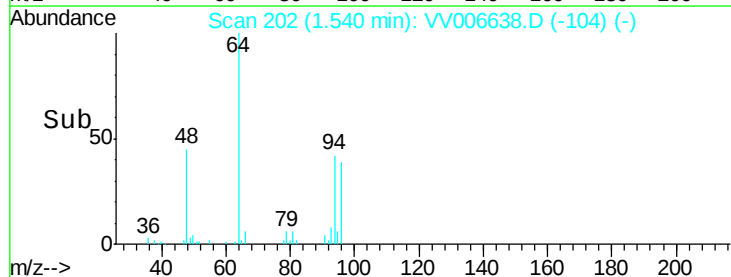
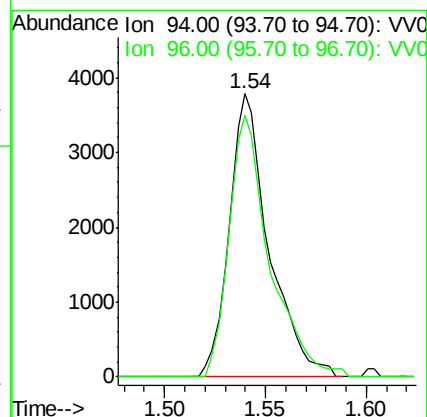
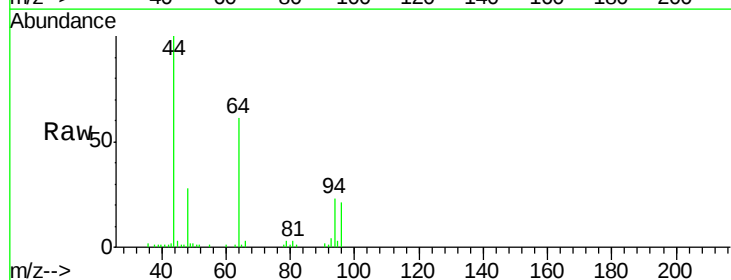
Acq: 19 Jul 2018 12:36

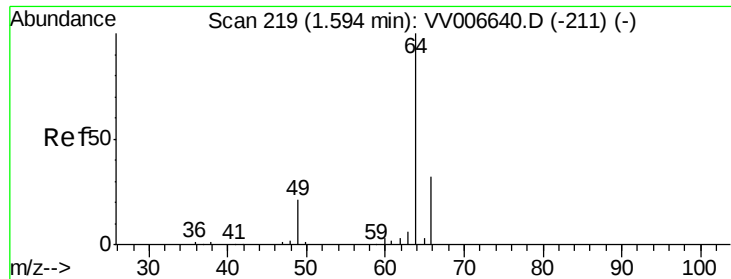
Tgt Ion: 94 Resp: 5204

Ion Ratio Lower Upper

94 100

96 92.3 64.5 119.7





#8

Chloroethane

Concen: 0.520 ug/L

RT: 1.60 min Scan# 222

Delta R.T. 0.01 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

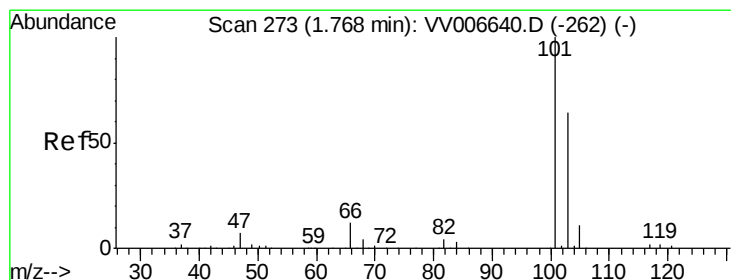
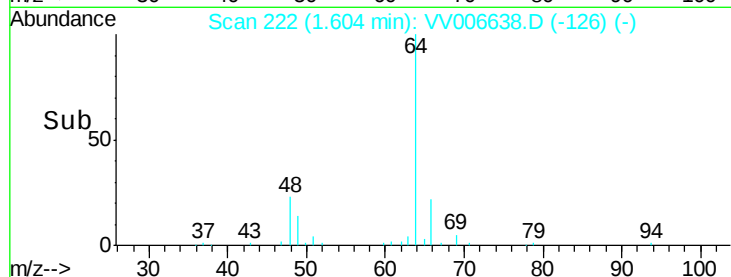
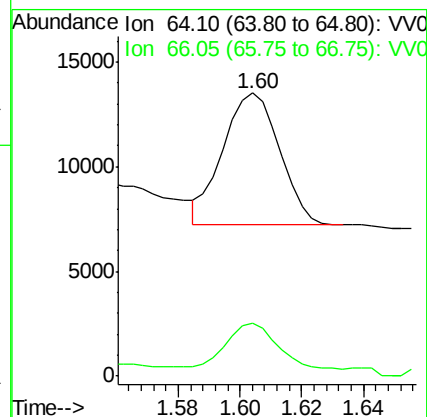
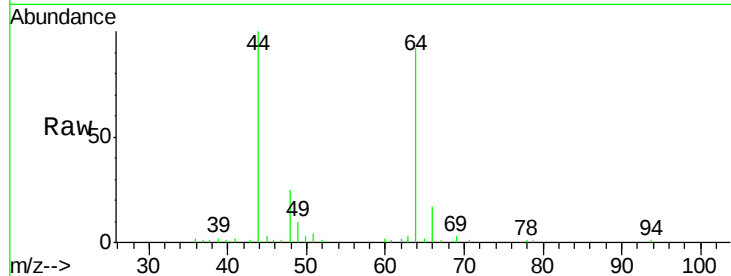
VSTD0.564

Tgt Ion: 64 Resp: 8080

Ion Ratio Lower Upper

64 100

66 18.8 21.1 39.3#



#9

Trichlorofluoromethane

Concen: 0.438 ug/L

RT: 1.77 min Scan# 275

Delta R.T. 0.01 min

Lab File: VV006638.D

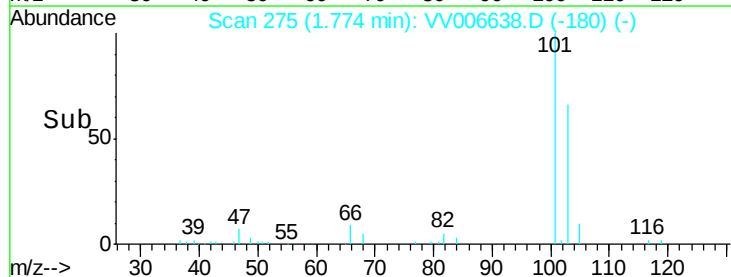
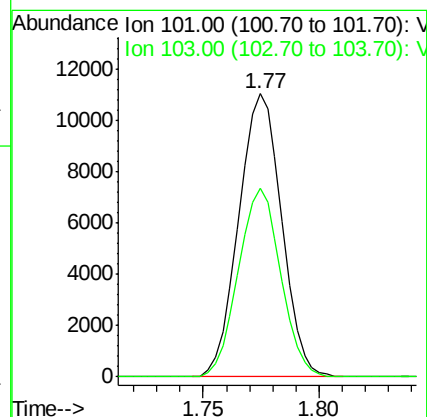
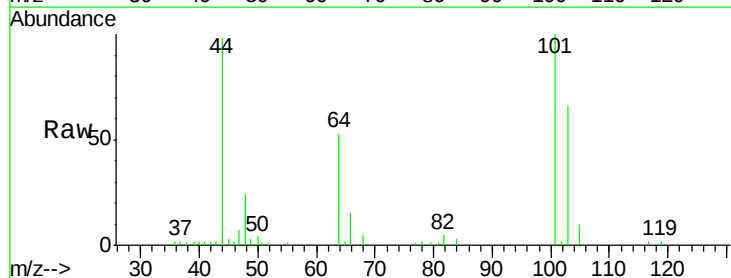
Acq: 19 Jul 2018 12:36

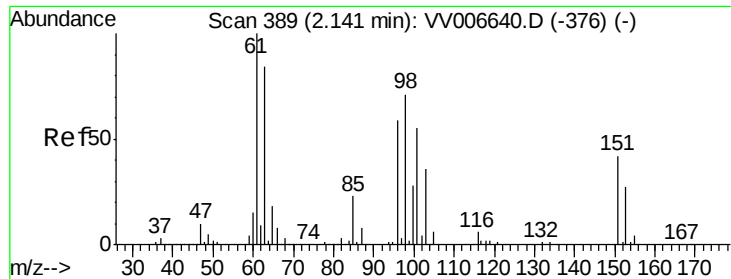
Tgt Ion: 101 Resp: 14235

Ion Ratio Lower Upper

101 100

103 65.5 51.1 76.7





#10

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

Concen: 0.446 ug/L

RT: 2.14 min Scan# 390

Delta R.T. 0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

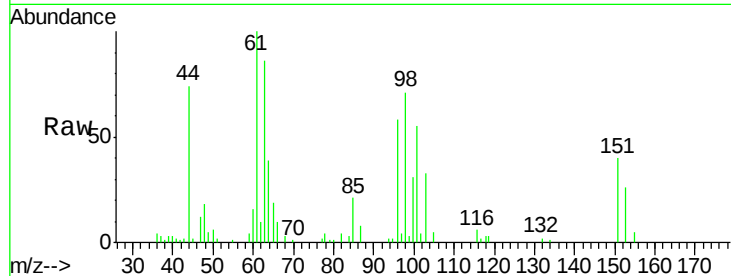
Tgt Ion:101 Resp: 9072

Ion Ratio Lower Upper

101 100

85 40.1 33.7 50.5

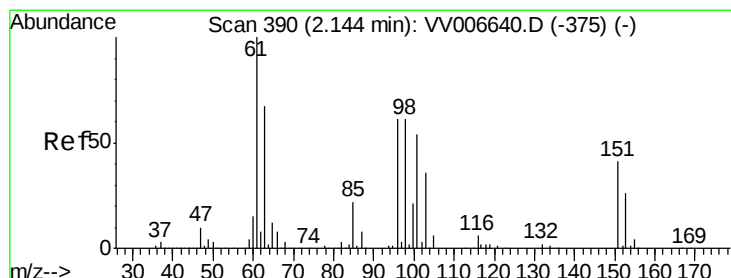
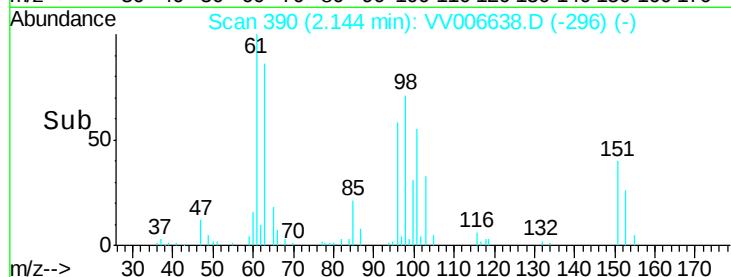
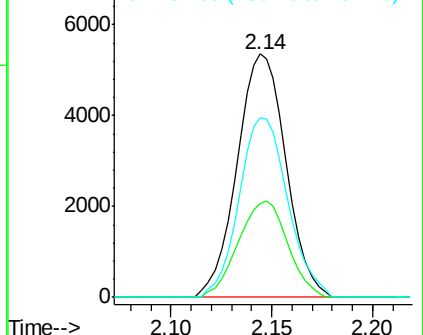
151 73.7 61.0 91.6



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: 0.465 ug/L

RT: 2.15 min Scan# 391

Delta R.T. 0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

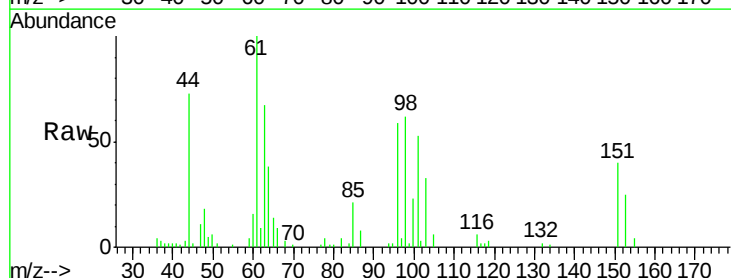
Tgt Ion: 96 Resp: 8975

Ion Ratio Lower Upper

96 100

61 169.4 115.1 213.8

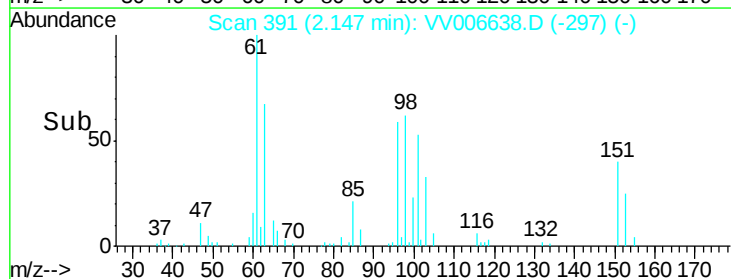
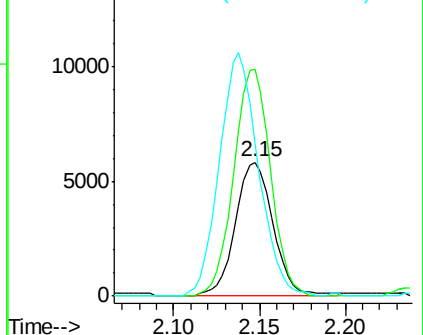
63 113.5 77.2 143.4

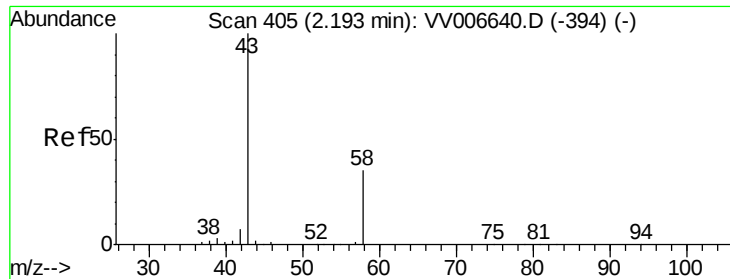


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 4.695 ug/L

RT: 2.20 min Scan# 407

Delta R.T. 0.01 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

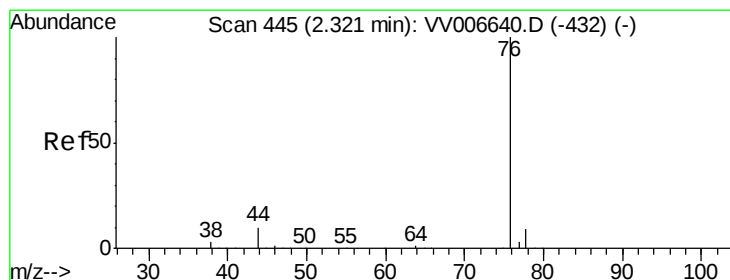
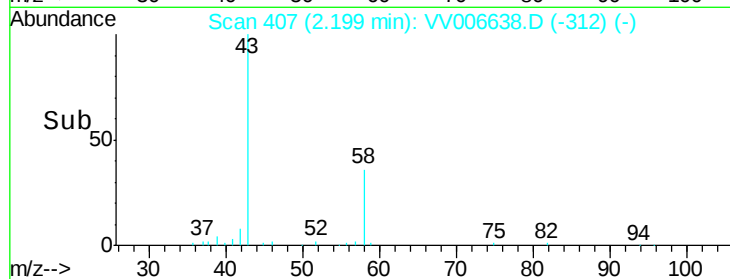
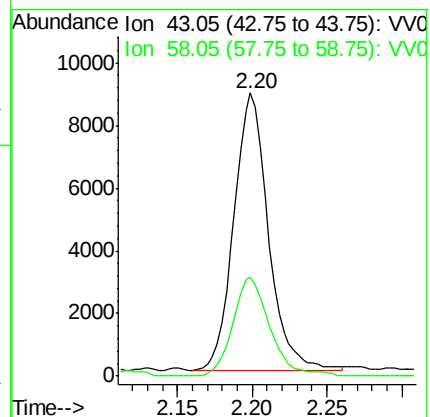
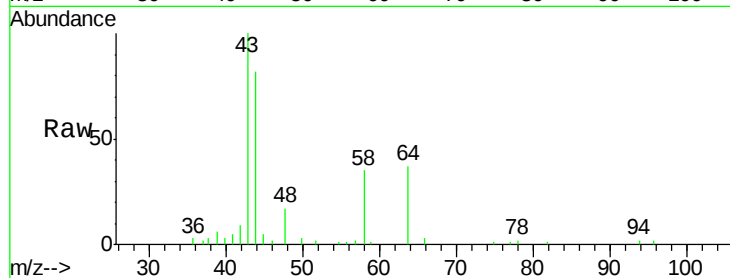
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD0.564

Tgt Ion: 43 Resp: 14297

Ion Ratio Lower Upper

43 100

58 38.0 0.0 72.8



#14

Carbon disulfide

Concen: 0.469 ug/L

RT: 2.32 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV006638.D

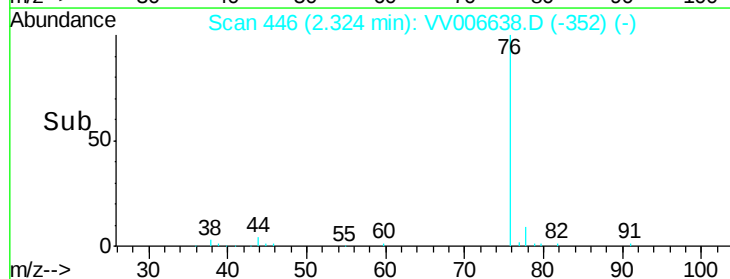
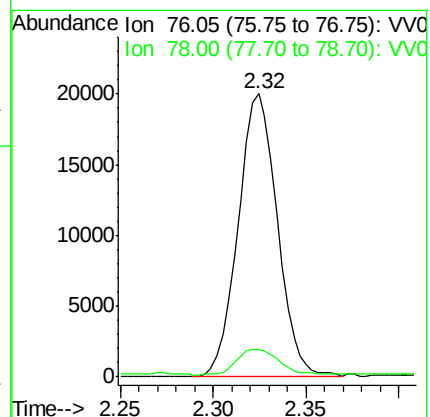
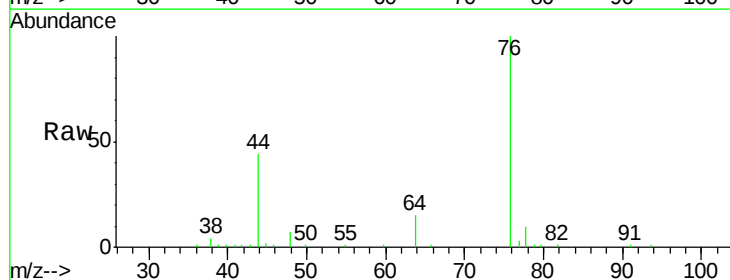
Acq: 19 Jul 2018 12:36

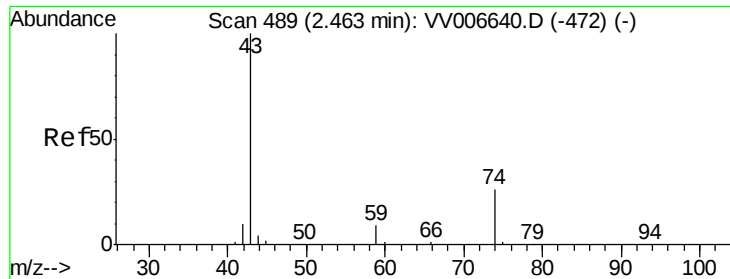
Tgt Ion: 76 Resp: 29360

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9

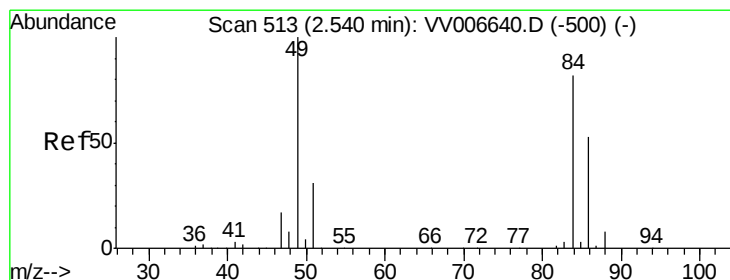
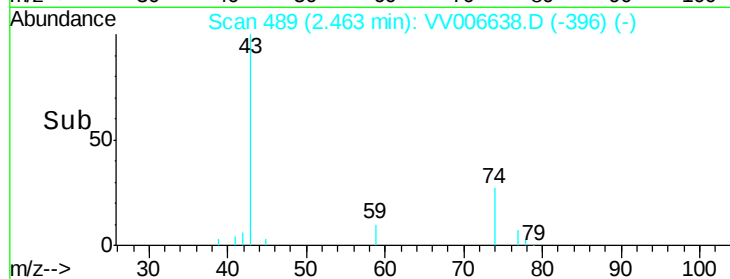
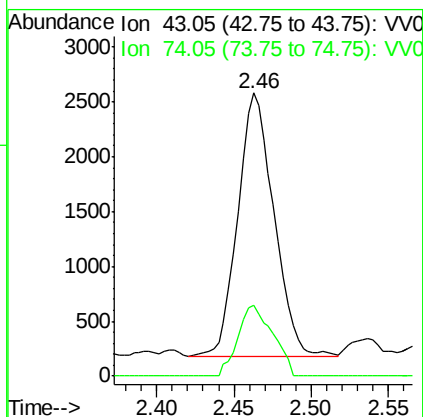
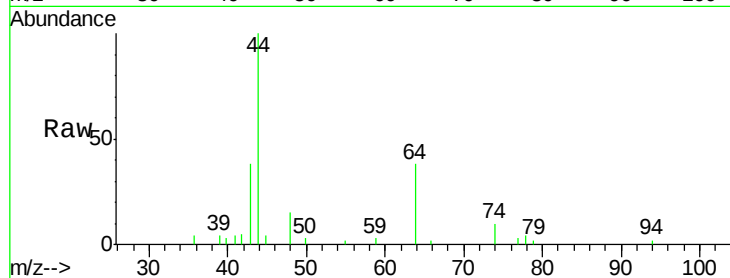




#15  
Methyl Acetate  
Concen: 0.436 ug/L  
RT: 2.46 min Scan# 489  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

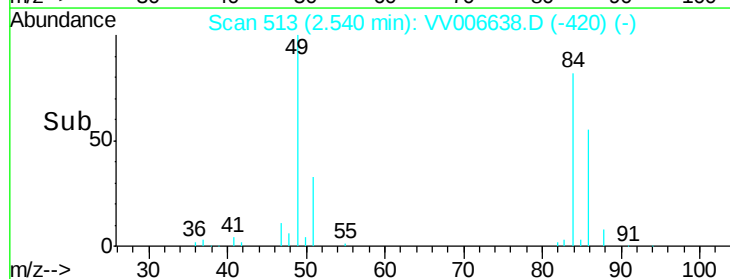
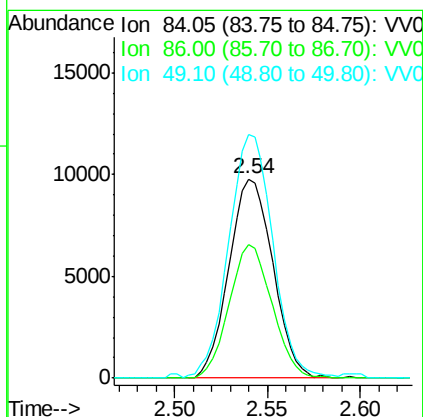
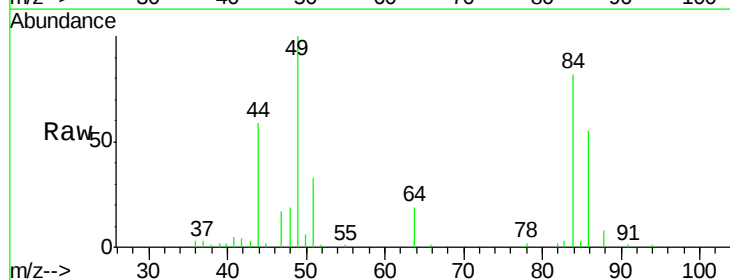
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.564

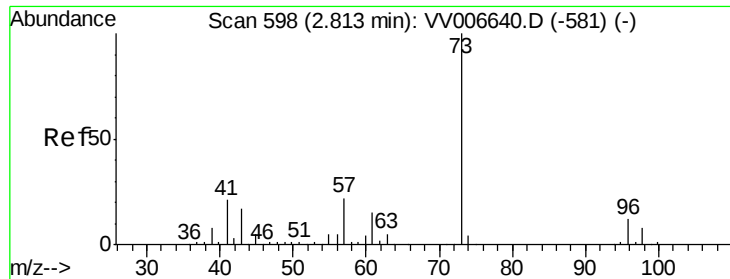
Tgt Ion: 43 Resp: 3892  
Ion Ratio Lower Upper  
43 100  
74 25.8 20.3 30.5



#16  
Methylene chloride  
Concen: 0.664 ug/L  
RT: 2.54 min Scan# 513  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

Tgt Ion: 84 Resp: 16113  
Ion Ratio Lower Upper  
84 100  
86 67.4 45.4 84.2  
49 122.3 85.1 158.1





#17

Methyl tert-butyl Ether

Concen: 0.430 ug/L

RT: 2.81 min Scan# 597

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

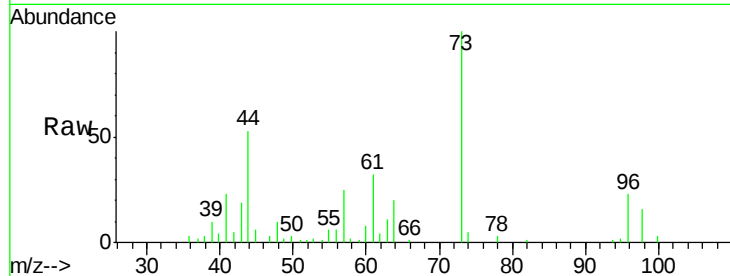
Tgt Ion: 73 Resp: 20484

Ion Ratio Lower Upper

73 100

43 17.0 13.9 20.9

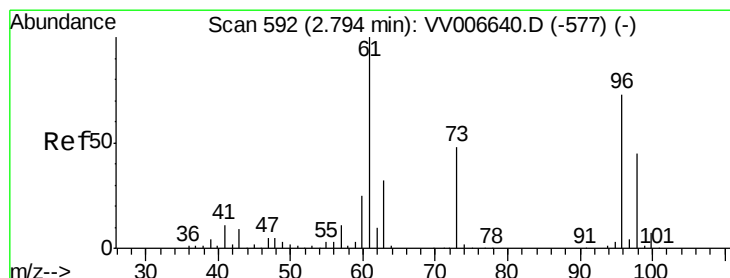
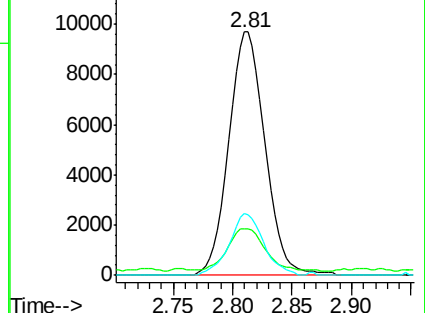
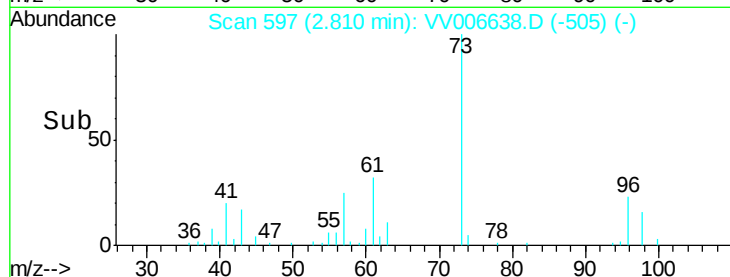
57 24.1 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VV006638.D (-505) (-)

Ion 43.05 (42.75 to 43.75): VV006638.D (-505) (-)

Ion 57.10 (56.80 to 57.80): VV006638.D (-505) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.466 ug/L

RT: 2.79 min Scan# 592

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

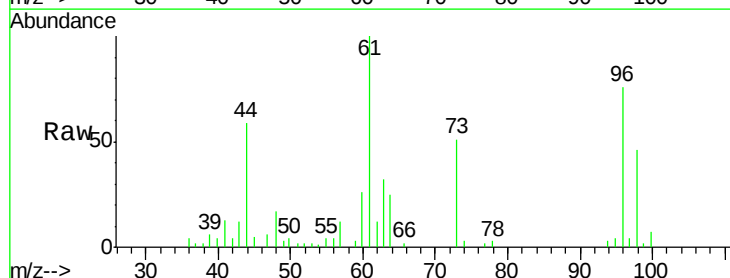
Tgt Ion: 96 Resp: 9900

Ion Ratio Lower Upper

96 100

61 132.3 96.0 178.4

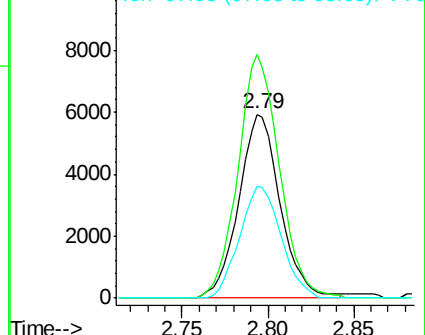
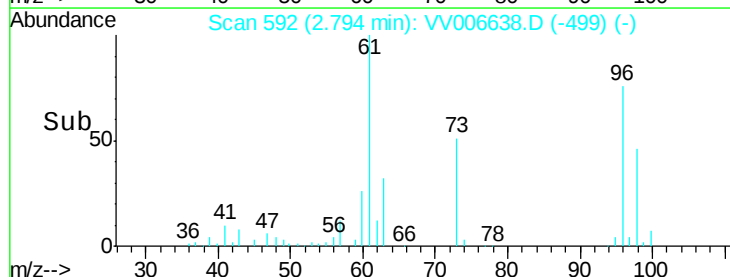
98 60.8 43.5 80.9

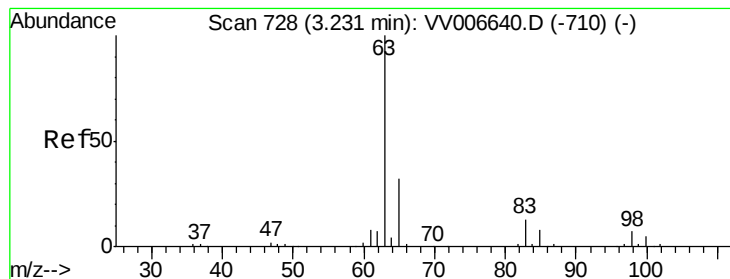


Abundance Ion 96.00 (95.70 to 96.70): VV006638.D (-499) (-)

Ion 61.05 (60.75 to 61.75): VV006638.D (-499) (-)

Ion 97.95 (97.65 to 98.65): VV006638.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 0.453 ug/L

RT: 3.23 min Scan# 728

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

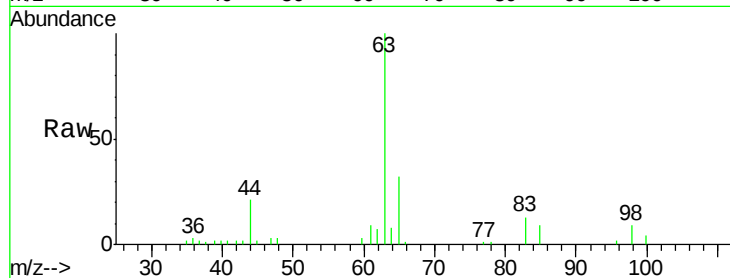
Tgt Ion: 63 Resp: 16992

Ion Ratio Lower Upper

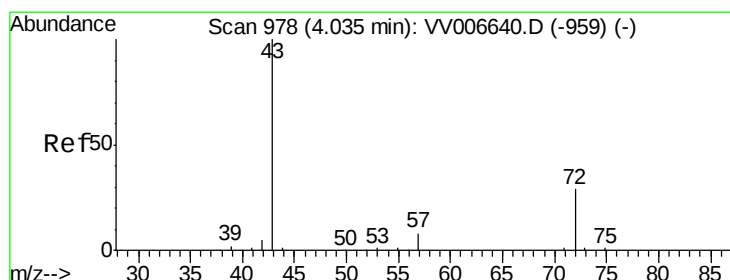
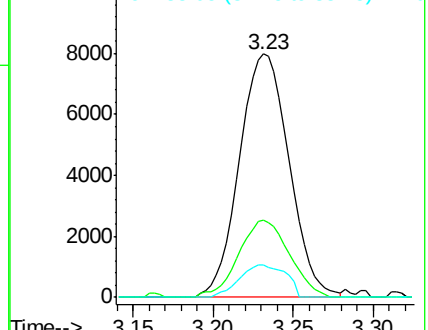
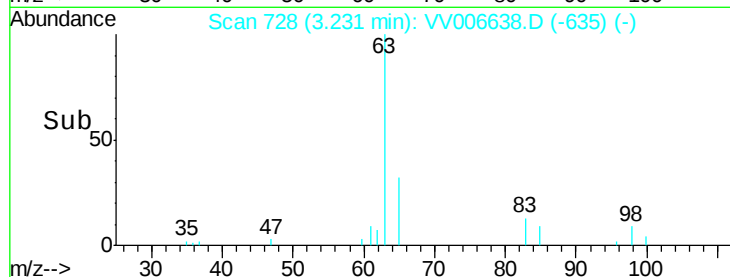
63 100

65 31.6 22.1 41.1

83 13.4 9.2 17.0



Abundance Ion 63.10 (62.80 to 63.80): VV006638.D (-635) (-)



#21

2-Butanone

Concen: 4.377 ug/L

RT: 4.04 min Scan# 979

Delta R.T. 0.00 min

Lab File: VV006638.D

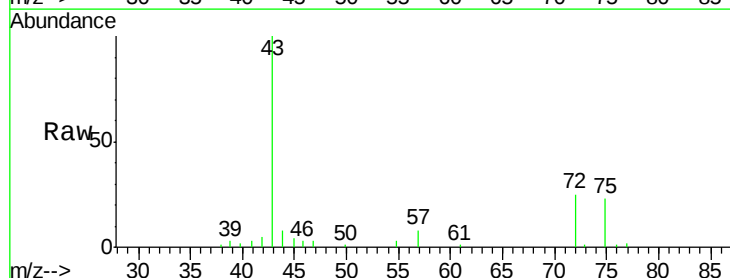
Acq: 19 Jul 2018 12:36

Tgt Ion: 43 Resp: 22321

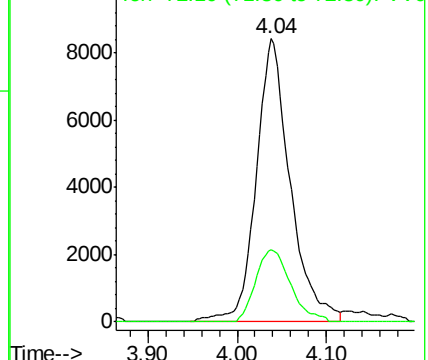
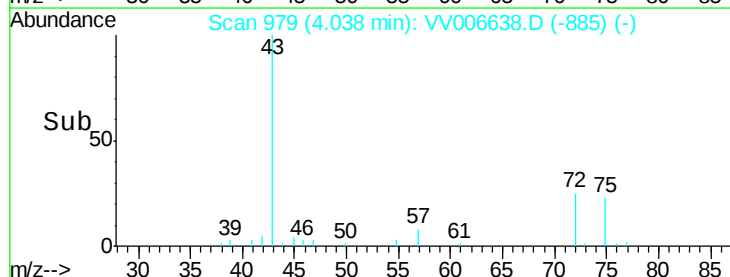
Ion Ratio Lower Upper

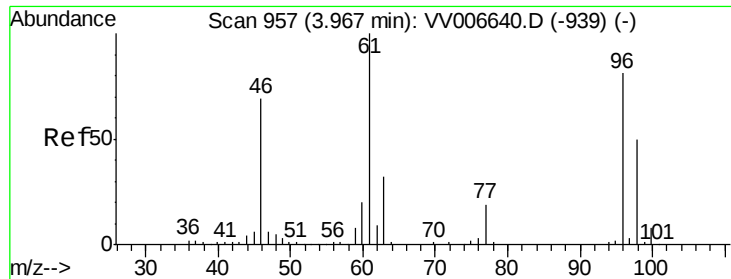
43 100

72 26.2 13.9 41.6



Abundance Ion 43.05 (42.75 to 43.75): VV006638.D (-885) (-)

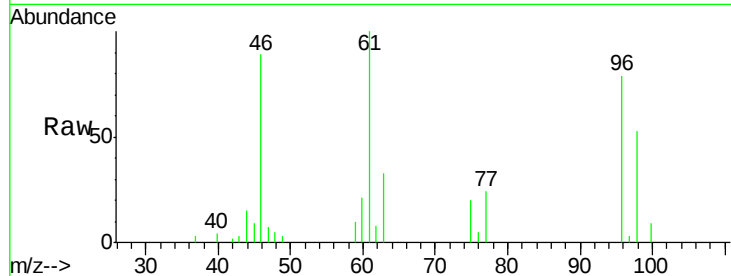




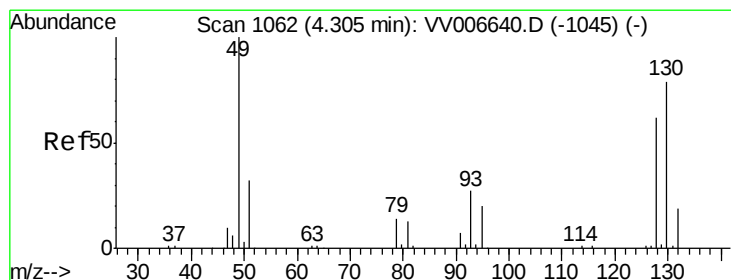
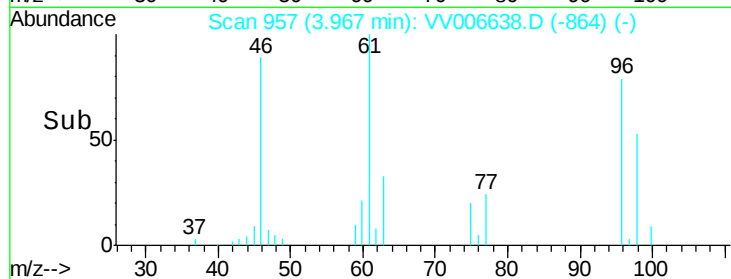
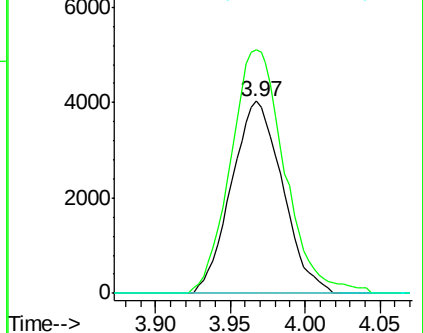
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.430 ug/L  
 RT: 3.97 min Scan# 957  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

Tgt Ion: 96 Resp: 9574  
 Ion Ratio Lower Upper  
 96 100  
 61 126.7 86.2 160.0  
 68 0.0 0.0 0.0

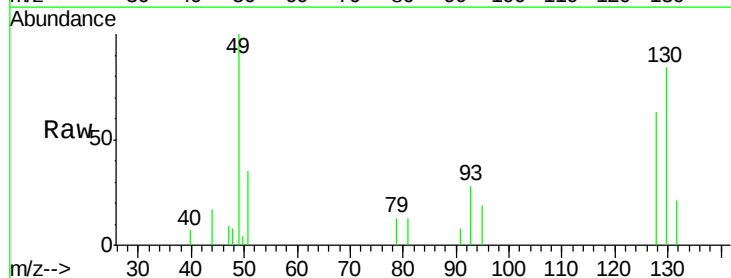


Abundance Ion 96.00 (95.70 to 96.70): VV006638.D (-864) (-)  
 Ion 61.05 (60.75 to 61.75): VV006638.D (-864) (-)  
 Ion 68.15 (67.85 to 68.85): VV006638.D (-864) (-)

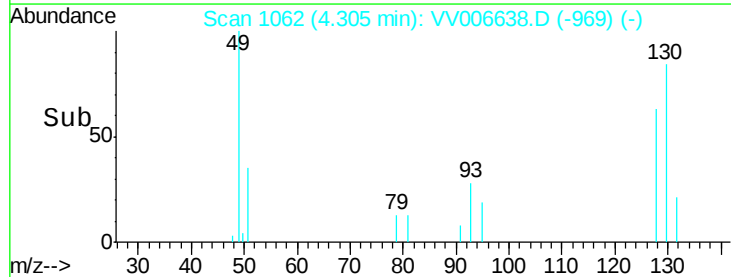
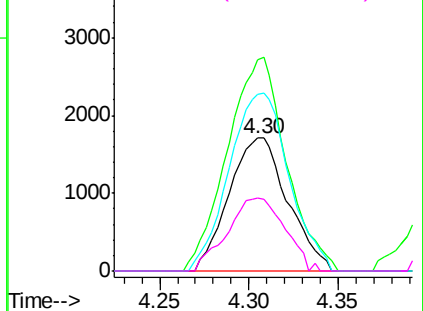


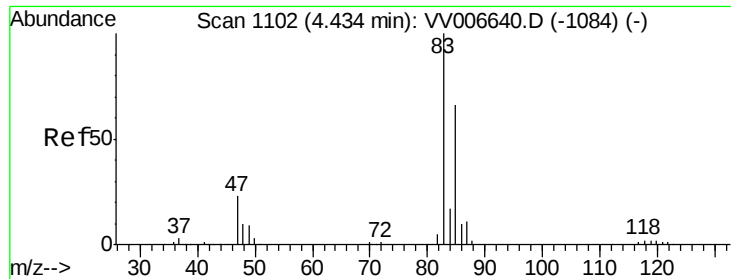
#23  
 Bromochloromethane  
 Concen: 0.433 ug/L  
 RT: 4.30 min Scan# 1062  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion: 128 Resp: 3926  
 Ion Ratio Lower Upper  
 128 100  
 49 164.5 113.0 209.8  
 130 133.2 89.3 165.9  
 51 55.0 40.9 61.3



Abundance Ion 127.90 (127.60 to 128.60): VV006638.D (-969) (-)  
 Ion 49.10 (48.80 to 49.80): VV006638.D (-969) (-)  
 Ion 129.95 (129.65 to 130.65): VV006638.D (-969) (-)  
 Ion 51.05 (50.75 to 51.75): VV006638.D (-969) (-)

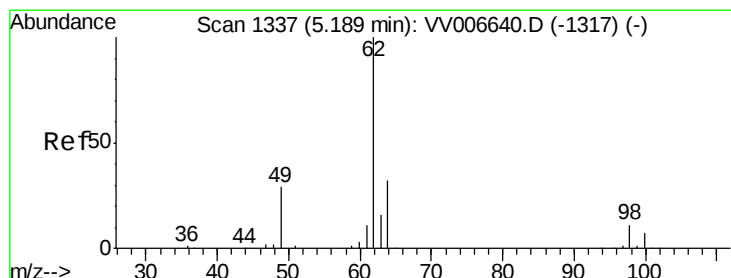
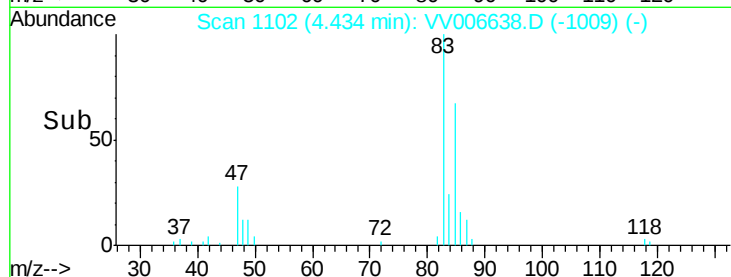
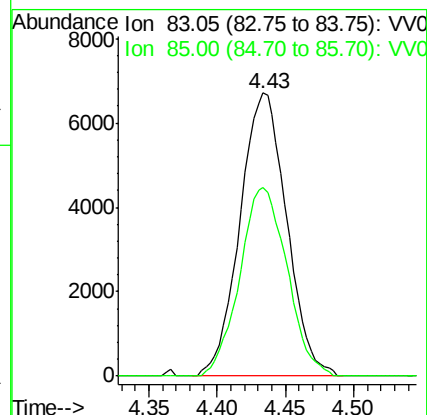
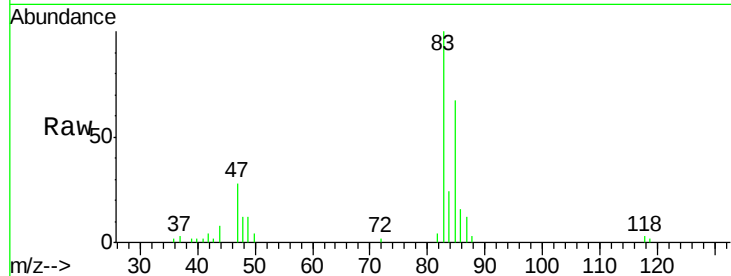




#25  
Chloroform  
Concen: 0.441 ug/L  
RT: 4.43 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

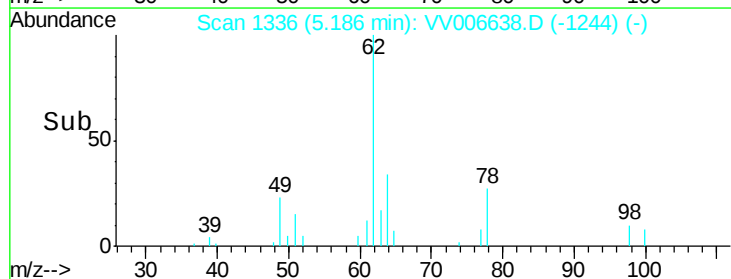
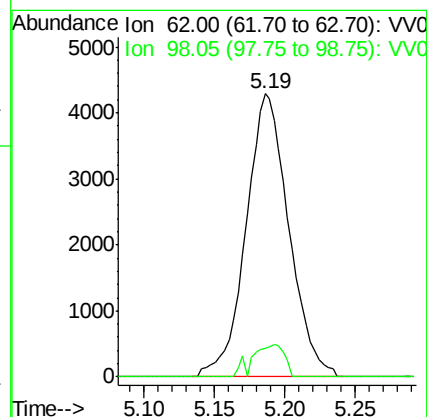
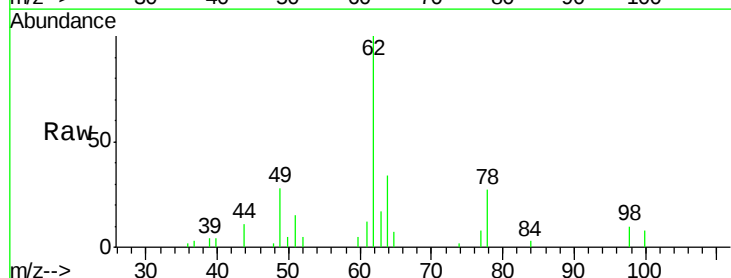
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.564

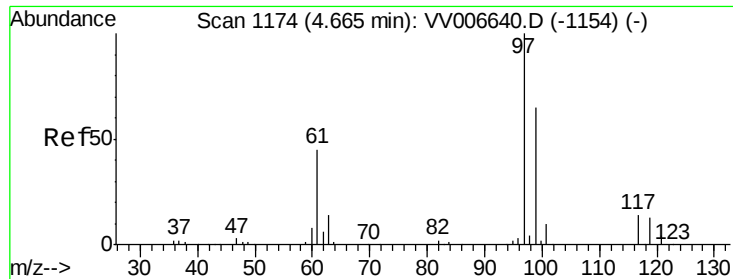
Tgt Ion: 83 Resp: 15953  
Ion Ratio Lower Upper  
83 100  
85 66.7 46.1 85.7



#27  
1,2-Dichloroethane  
Concen: 0.430 ug/L  
RT: 5.19 min Scan# 1336  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

Tgt Ion: 62 Resp: 9092  
Ion Ratio Lower Upper  
62 100  
98 10.0 8.4 12.6

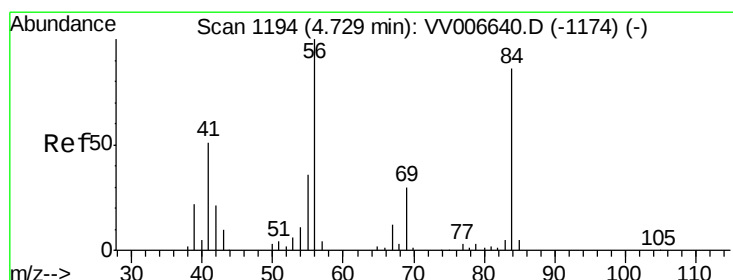
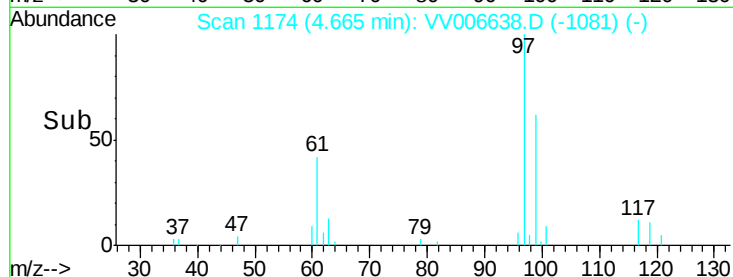
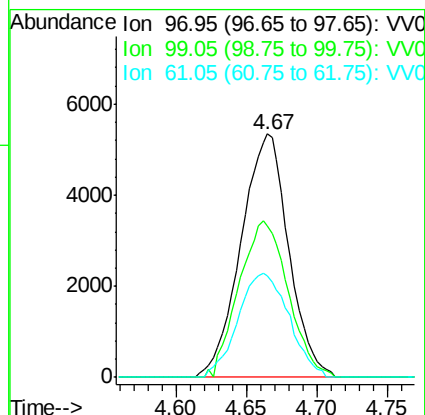
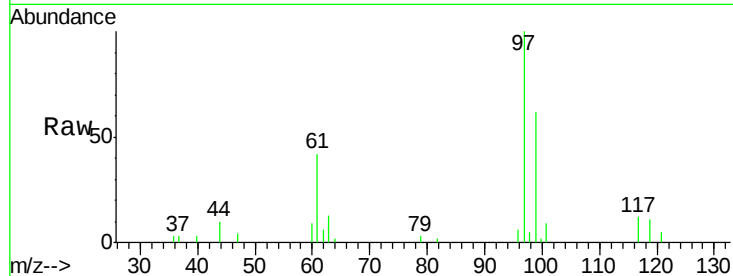




#29  
 1,1,1-Trichloroethane  
 Concen: 0.429 ug/L  
 RT: 4.67 min Scan# 1174  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

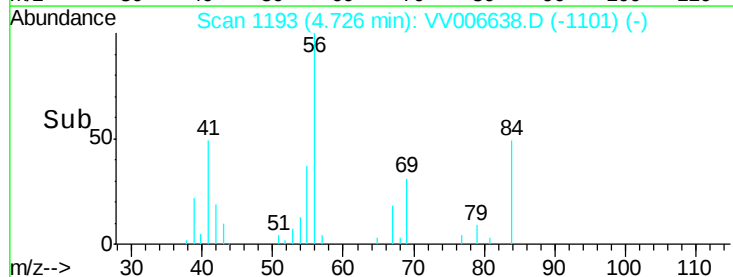
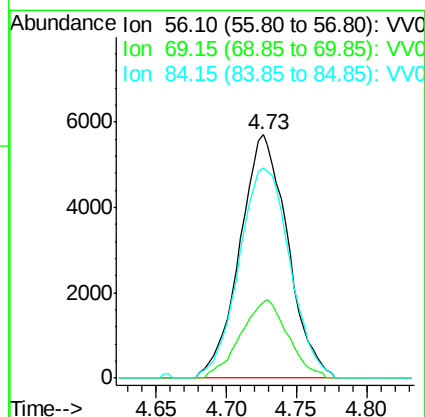
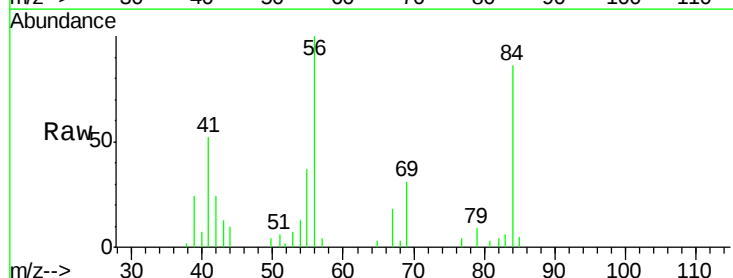
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

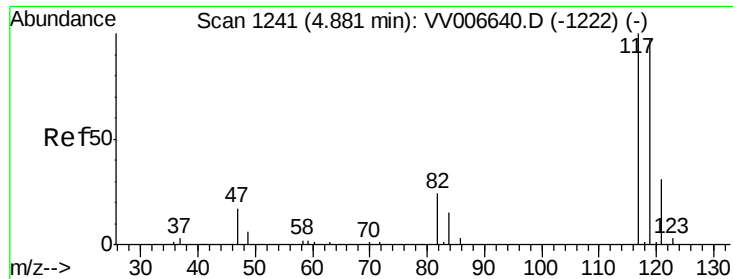
Tgt Ion: 97 Resp: 12616  
 Ion Ratio Lower Upper  
 97 100  
 99 66.4 51.5 77.3  
 61 45.6 35.4 53.2



#30  
 Cyclohexane  
 Concen: 0.411 ug/L  
 RT: 4.73 min Scan# 1193  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion: 56 Resp: 13517  
 Ion Ratio Lower Upper  
 56 100  
 69 31.6 24.0 36.0  
 84 92.1 71.0 106.6





#31

Carbon tetrachloride

Concen: 0.425 ug/L

RT: 4.88 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

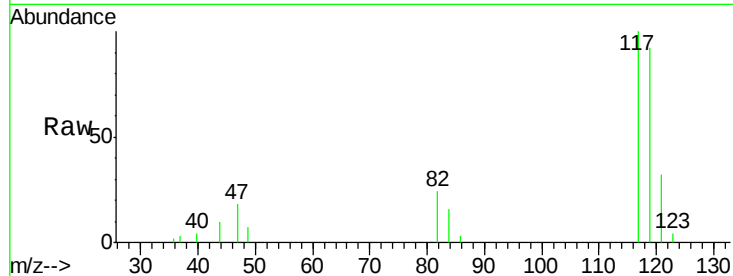
VSTD0.564

Tgt Ion:117 Resp: 10688

Ion Ratio Lower Upper

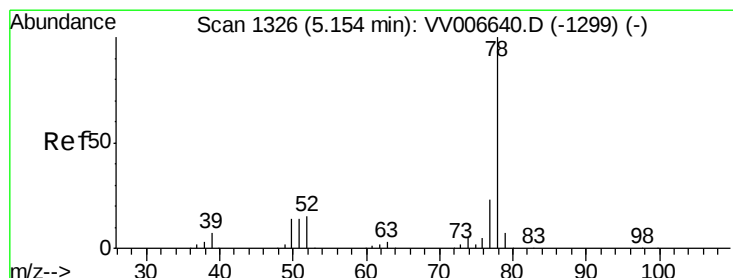
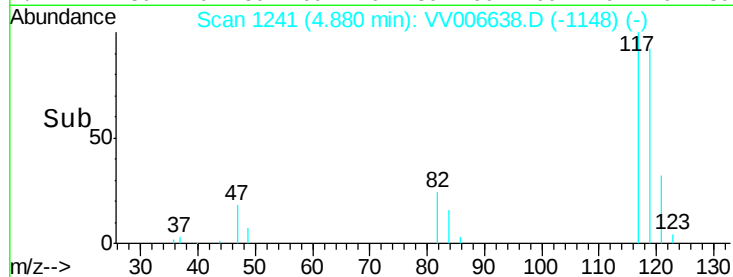
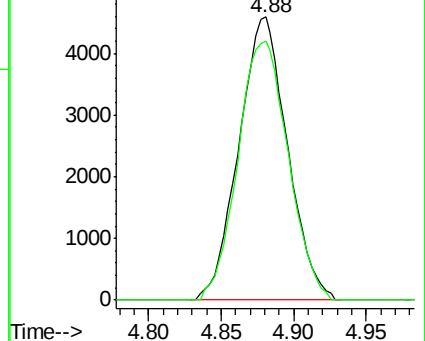
117 100

119 94.7 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.434 ug/L

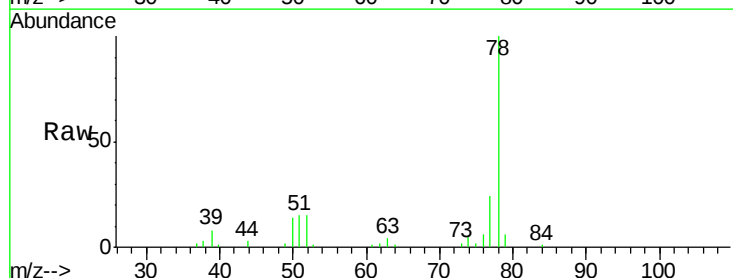
RT: 5.15 min Scan# 1326

Delta R.T. -0.00 min

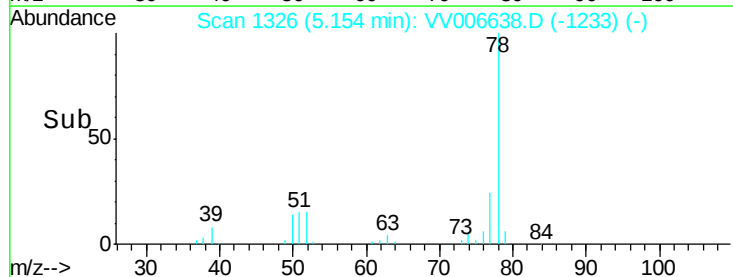
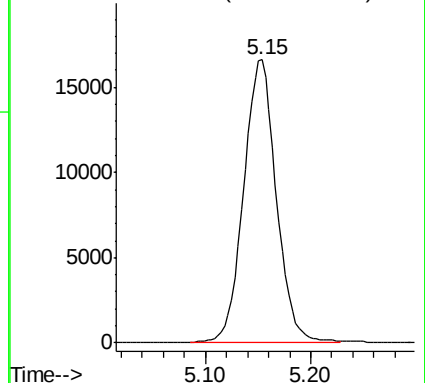
Lab File: VV006638.D

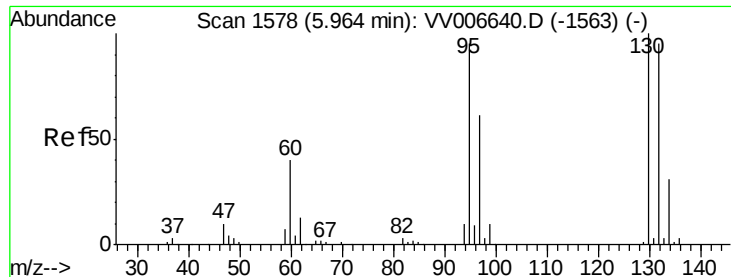
Acq: 19 Jul 2018 12:36

Tgt Ion: 78 Resp: 35933



Abundance Ion 78.10 (77.80 to 78.80): VV0

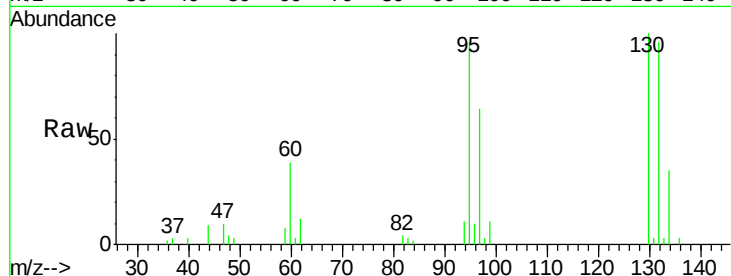




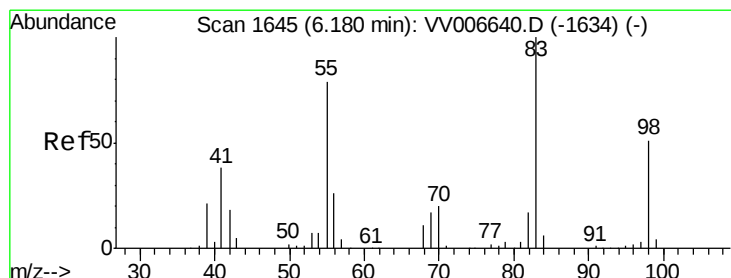
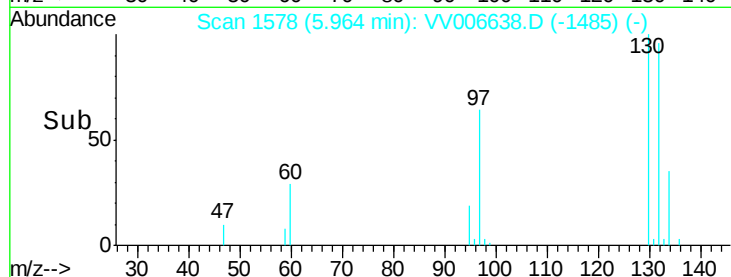
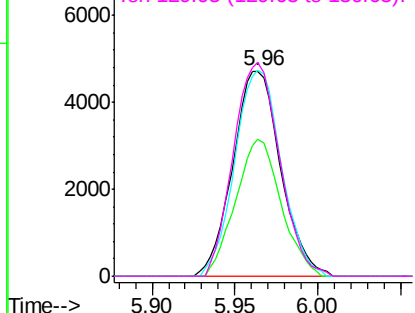
#34  
 Trichloroethene  
 Concen: 0.452 ug/L  
 RT: 5.96 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

Tgt Ion: 95 Resp: 9464  
 Ion Ratio Lower Upper  
 95 100  
 97 66.9 45.3 84.1  
 132 100.3 70.3 130.7  
 130 104.0 73.7 136.9

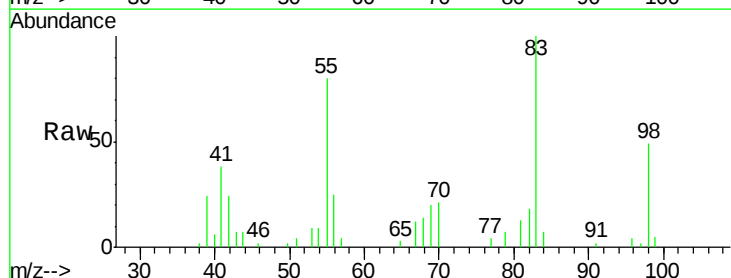


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

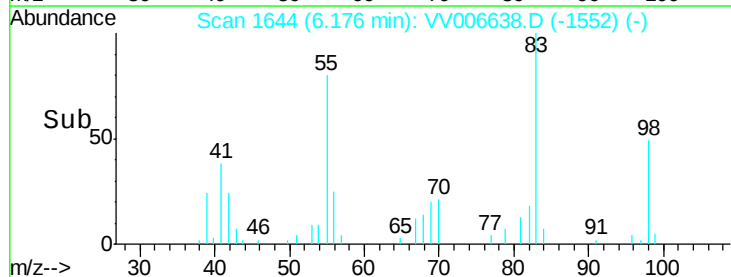
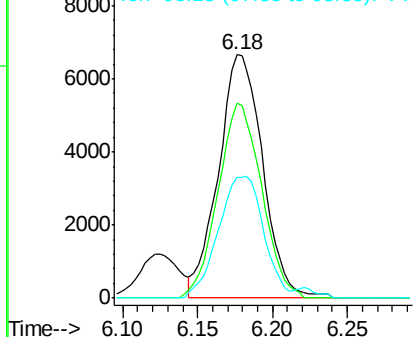


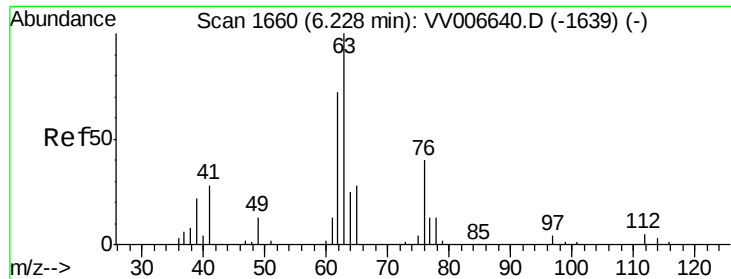
#35  
 Methylcyclohexane  
 Concen: 0.392 ug/L  
 RT: 6.18 min Scan# 1644  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion: 83 Resp: 13718  
 Ion Ratio Lower Upper  
 83 100  
 55 78.9 61.3 91.9  
 98 50.9 39.4 59.0



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

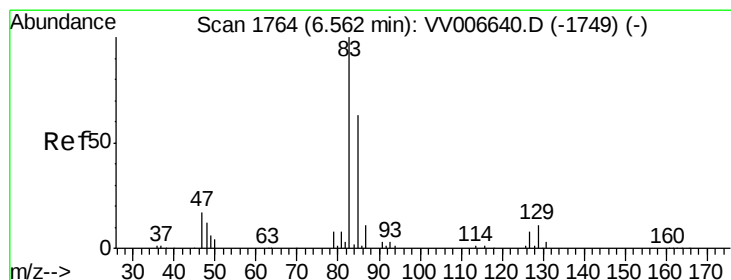
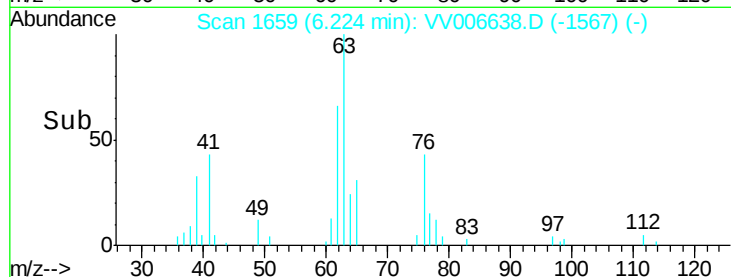
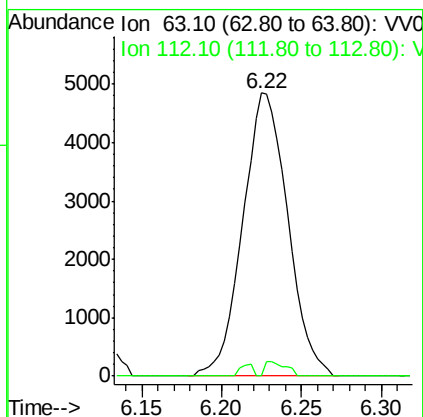
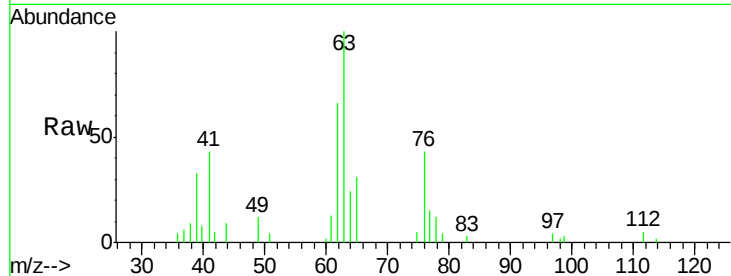




#37  
 1,2-Dichloropropane  
 Concen: 0.443 ug/L  
 RT: 6.22 min Scan# 1659  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

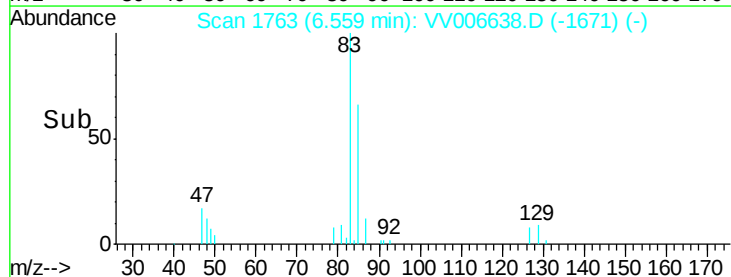
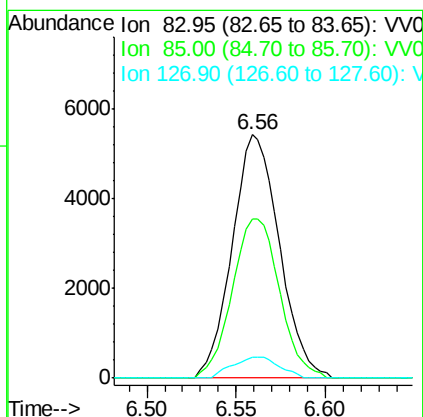
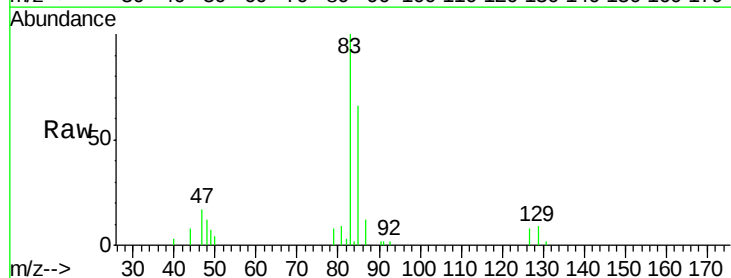
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD0.564

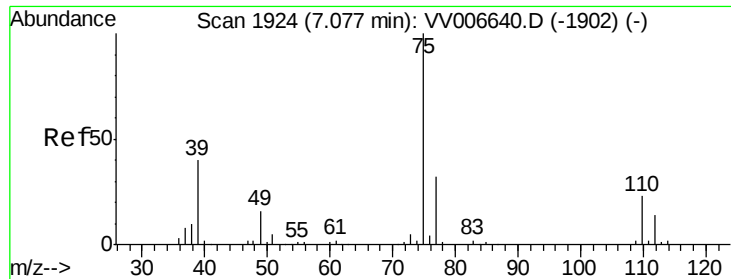
Tgt Ion: 63 Resp: 9361  
 Ion Ratio Lower Upper  
 63 100  
 112 2.4 3.6 5.4#



#38  
 Bromodichloromethane  
 Concen: 0.427 ug/L  
 RT: 6.56 min Scan# 1763  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion: 83 Resp: 10012  
 Ion Ratio Lower Upper  
 83 100  
 85 65.6 44.3 82.3  
 127 8.5 6.5 9.7

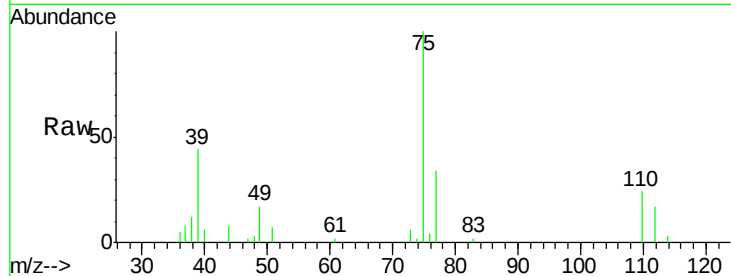




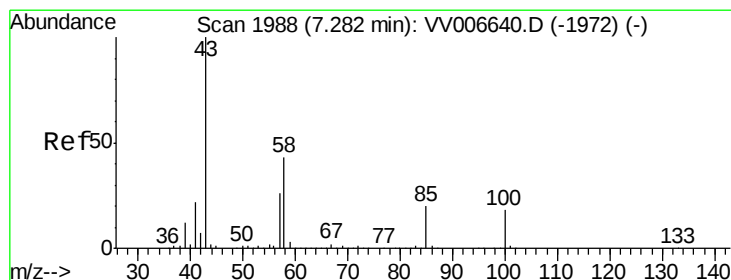
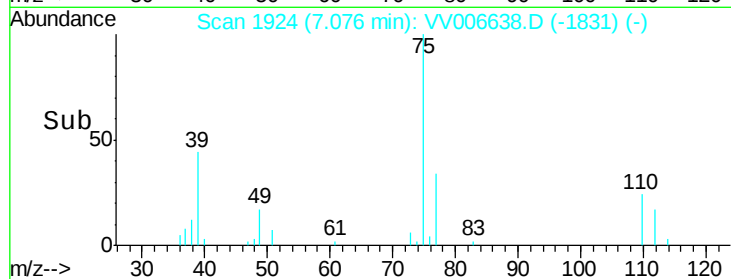
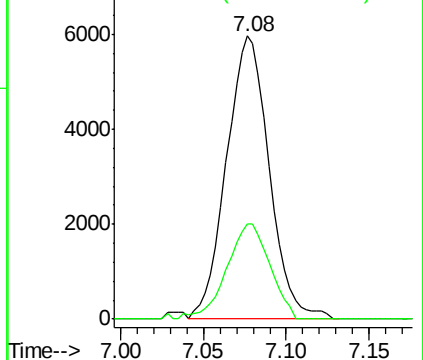
#39  
 cis-1,3-Dichloropropene  
 Concen: 0.384 ug/L  
 RT: 7.08 min Scan# 1924  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

Tgt Ion: 75 Resp: 10673  
 Ion Ratio Lower Upper  
 75 100  
 77 33.8 22.2 41.2

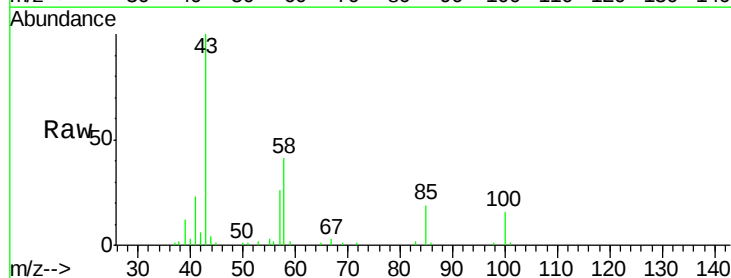


Abundance Ion 75.05 (74.75 to 75.75): VV0  
 Ion 77.05 (76.75 to 77.75): VV0

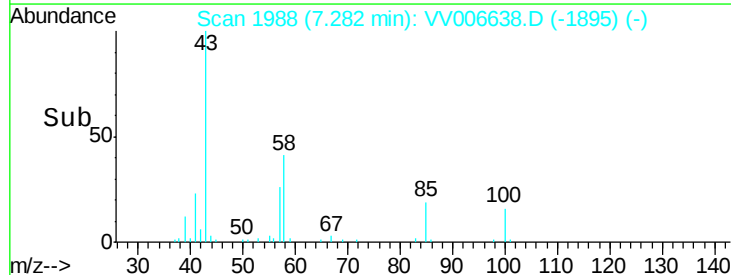
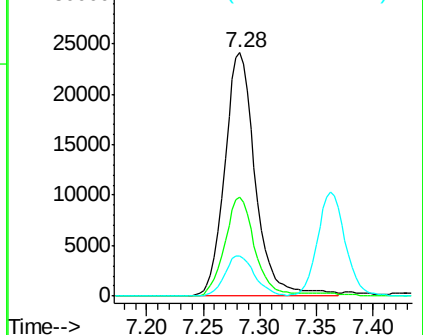


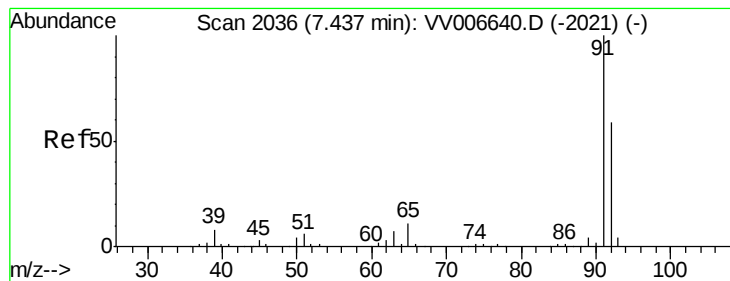
#40  
 4-Methyl-2-pentanone  
 Concen: 3.983 ug/L  
 RT: 7.28 min Scan# 1988  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion: 43 Resp: 45481  
 Ion Ratio Lower Upper  
 43 100  
 58 39.8 33.6 50.4  
 100 16.1 13.8 20.8



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: 0.419 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

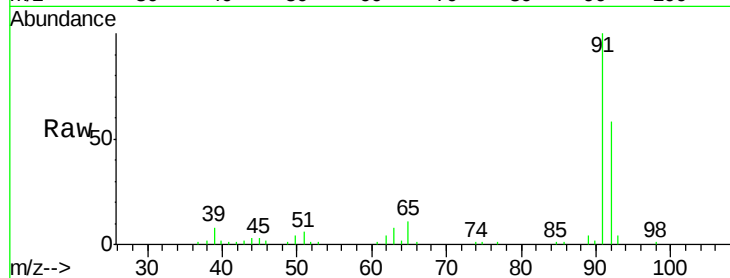
VSTD0.564

Tgt Ion: 91 Resp: 35897

Ion Ratio Lower Upper

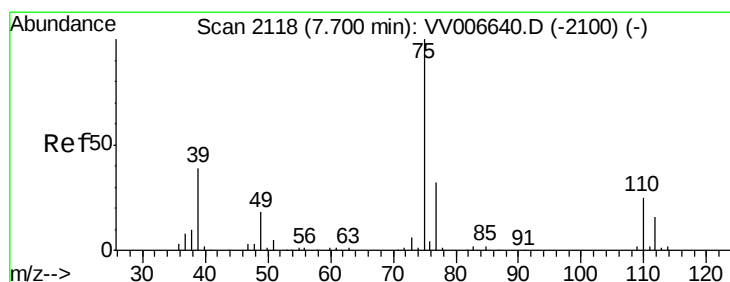
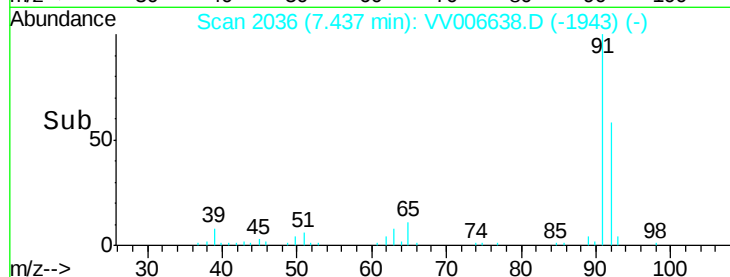
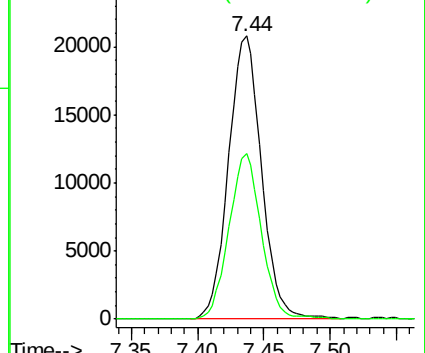
91 100

92 58.4 41.4 76.8



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: 0.371 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006638.D

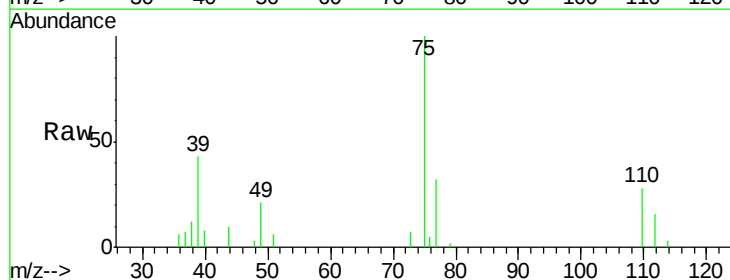
Acq: 19 Jul 2018 12:36

Tgt Ion: 75 Resp: 8016

Ion Ratio Lower Upper

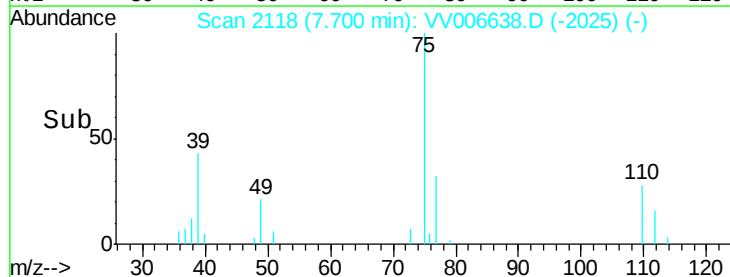
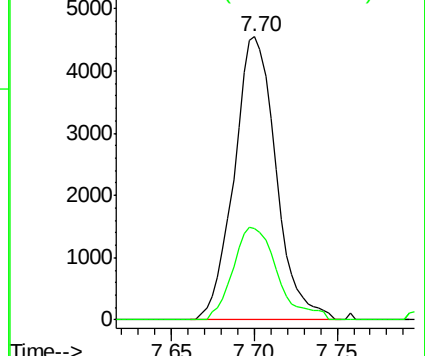
75 100

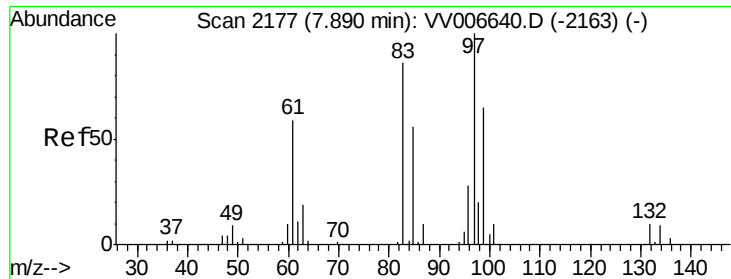
77 32.1 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

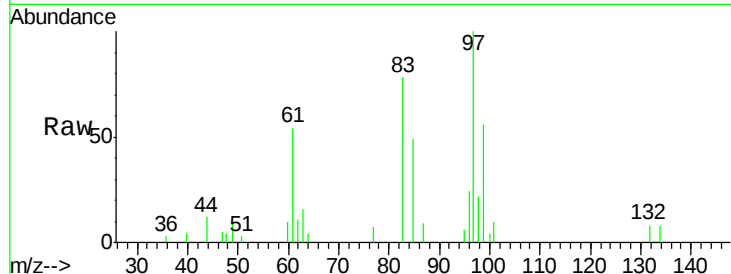




#45  
 1,1,2-Trichloroethane  
 Concen: 0.447 ug/L  
 RT: 7.89 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 6353  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 56.1  | 45.2  | 84.0  |
| 83       | 78.0  | 60.5  | 112.3 |
| 85       | 49.0  | 39.0  | 72.4  |

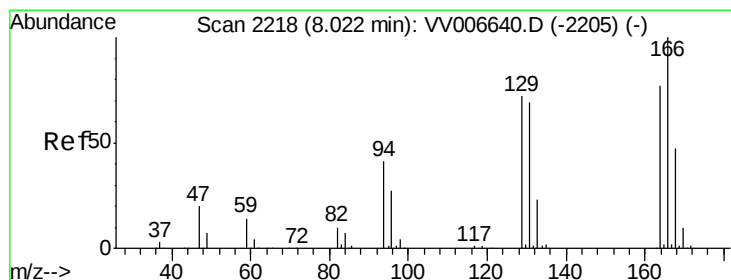
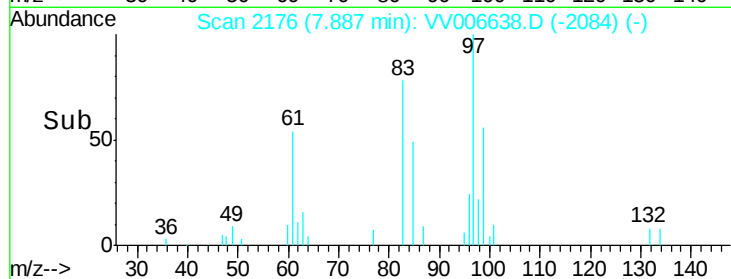
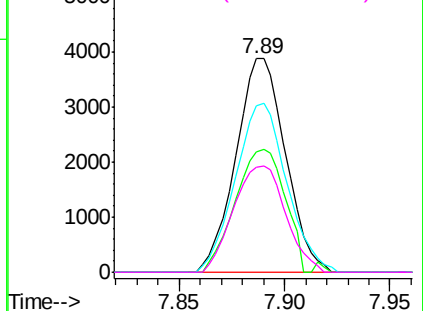


Abundance Ion 96.95 (96.65 to 97.65): VV006638.D (-2176) (-)

Ion 99.05 (98.75 to 99.75): VV006638.D (-2176) (-)

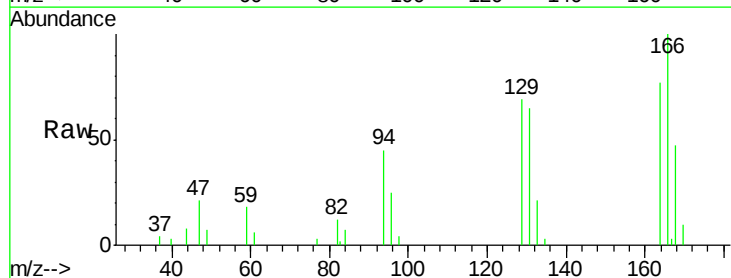
Ion 82.95 (82.65 to 83.65): VV006638.D (-2176) (-)

Ion 85.00 (84.70 to 85.70): VV006638.D (-2176) (-)



#47  
 Tetrachloroethene  
 Concen: 0.434 ug/L  
 RT: 8.02 min Scan# 2218  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 7302  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 90.4  | 65.9  | 122.5 |
| 131      | 85.0  | 62.9  | 116.7 |
| 166      | 130.6 | 91.4  | 169.8 |

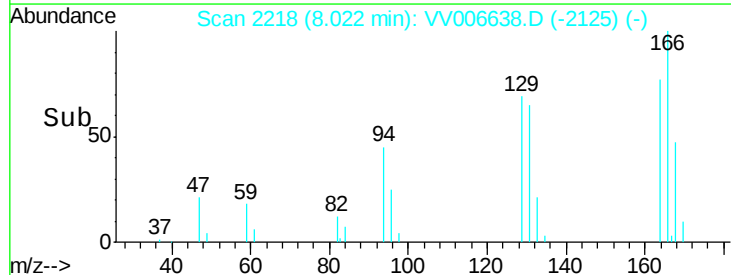
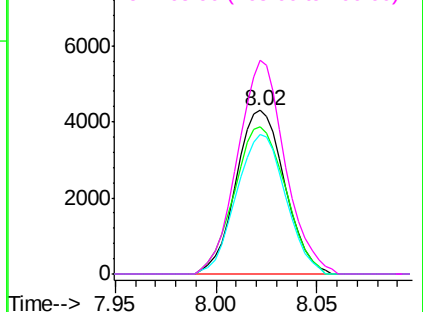


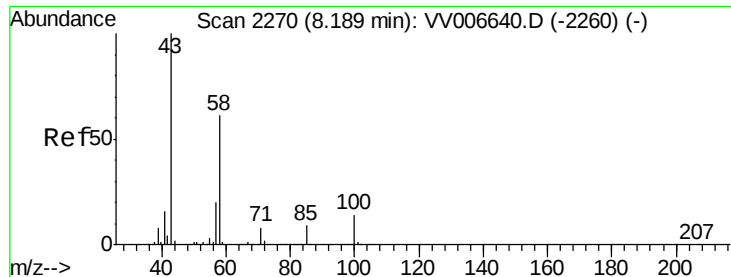
Abundance Ion 163.90 (163.60 to 164.60): VV006638.D (-2218) (-)

Ion 128.95 (128.65 to 129.65): VV006638.D (-2218) (-)

Ion 130.95 (130.65 to 131.65): VV006638.D (-2218) (-)

Ion 165.90 (165.60 to 166.60): VV006638.D (-2218) (-)

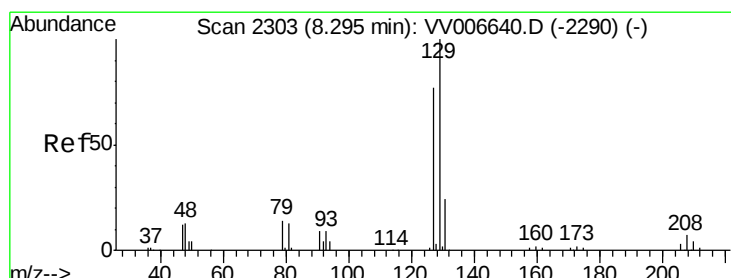
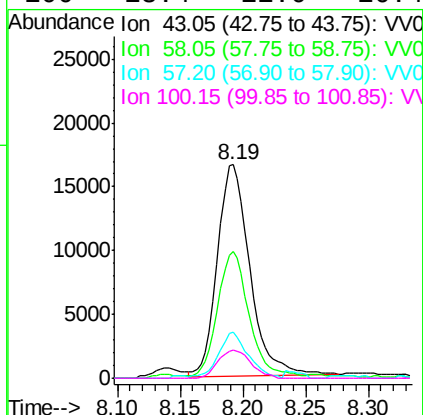
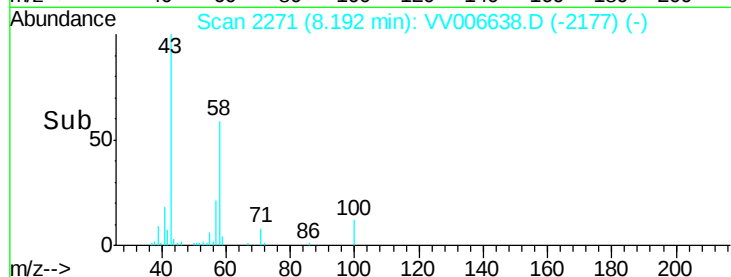
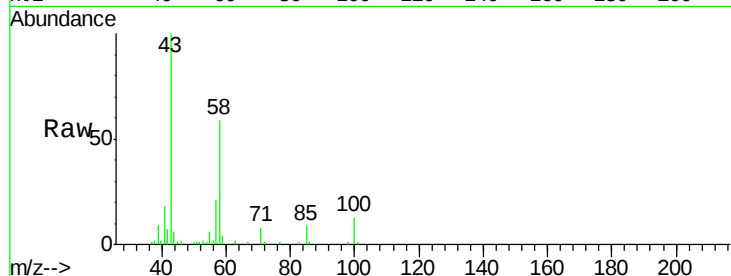




#48  
2-Hexanone  
Concen: 3.732 ug/L  
RT: 8.19 min Scan# 2271  
Delta R.T. 0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

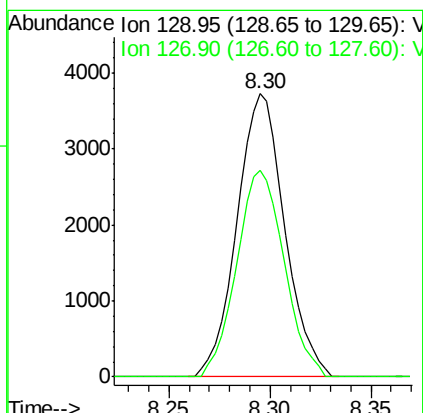
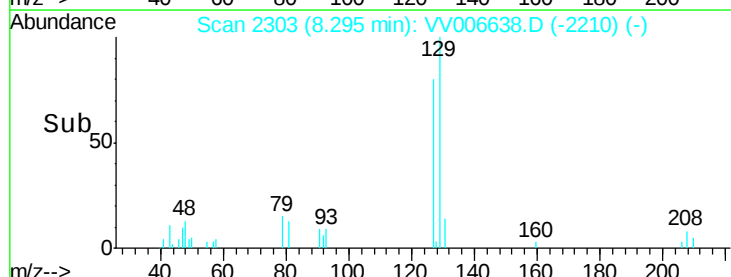
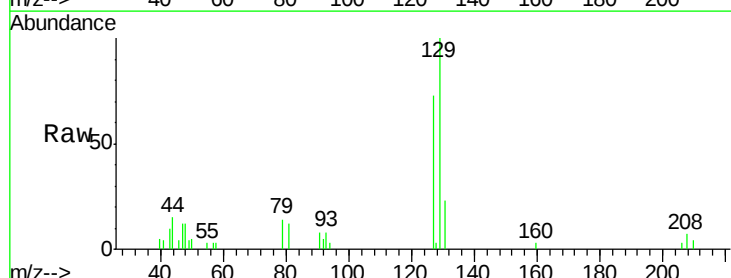
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.564

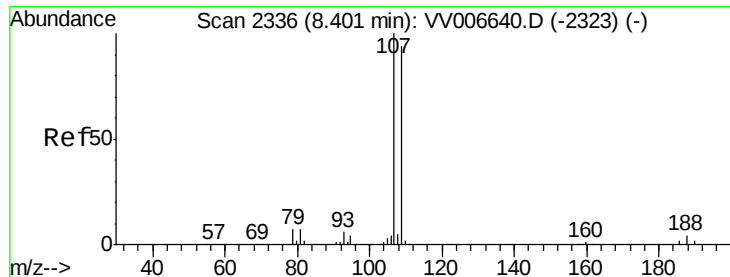
Tgt Ion: 43 Resp: 29791  
Ion Ratio Lower Upper  
43 100  
58 56.6 48.2 72.2  
57 19.7 16.2 24.4  
100 13.4 11.0 16.4



#49  
Dibromochloromethane  
Concen: 0.409 ug/L  
RT: 8.30 min Scan# 2303  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

Tgt Ion: 129 Resp: 6163  
Ion Ratio Lower Upper  
129 100  
127 73.0 53.6 99.6

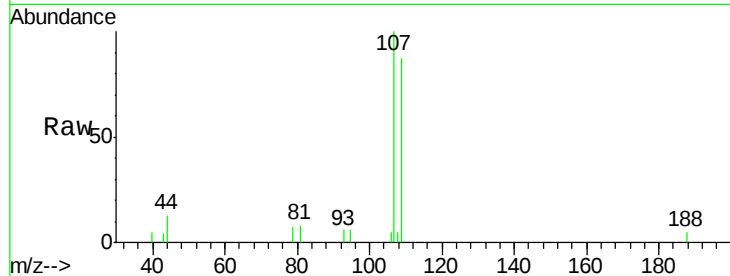




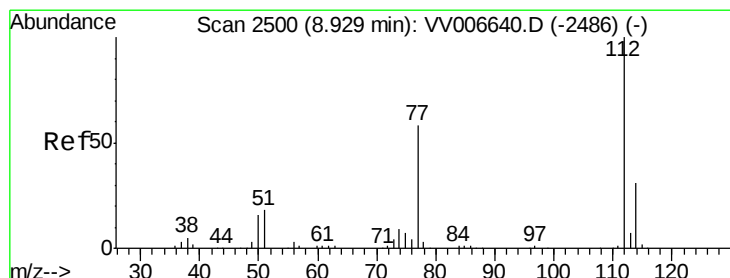
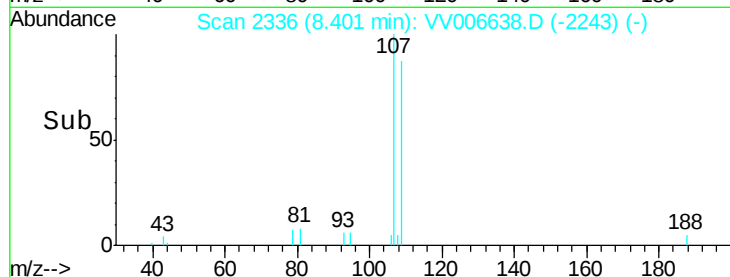
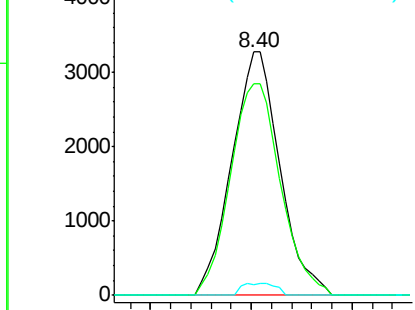
#50  
1,2-Dibromoethane  
Concen: 0.427 ug/L  
RT: 8.40 min Scan# 2336  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.564

Tgt Ion:107 Resp: 5457  
Ion Ratio Lower Upper  
107 100  
109 87.2 66.0 122.6  
188 4.6 3.1 4.7

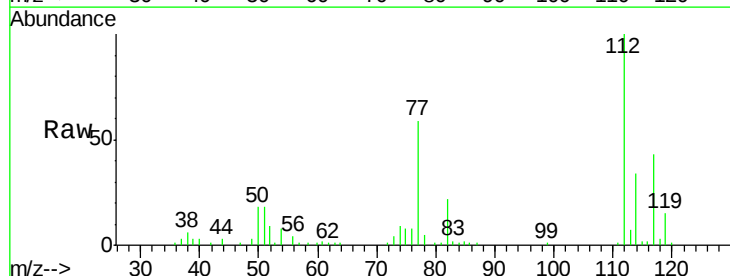


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

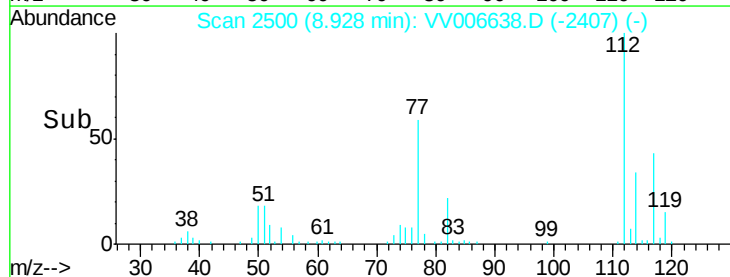
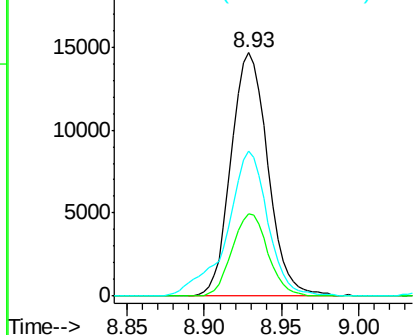


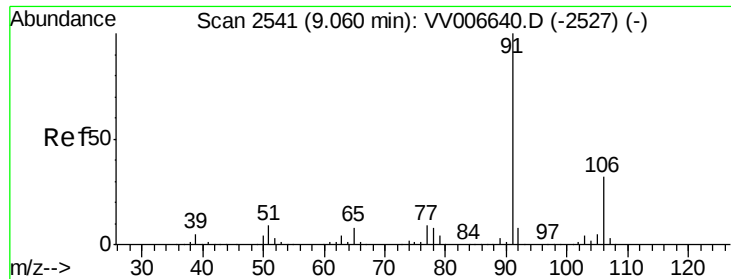
#51  
Chlorobenzene  
Concen: 0.436 ug/L  
RT: 8.93 min Scan# 2500  
Delta R.T. -0.00 min  
Lab File: VV006638.D  
Acq: 19 Jul 2018 12:36

Tgt Ion:112 Resp: 24233  
Ion Ratio Lower Upper  
112 100  
114 33.7 21.8 40.4  
77 59.4 46.6 69.8



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: 0.399 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

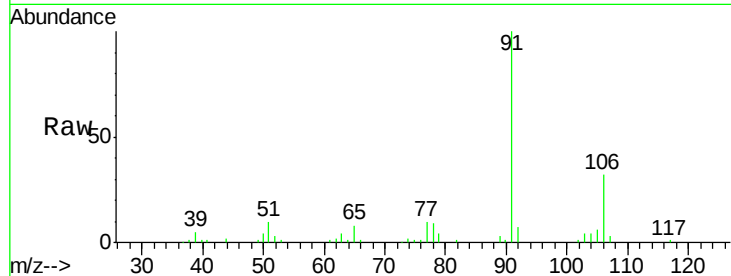
VSTD0.564

Tgt Ion: 91 Resp: 36701

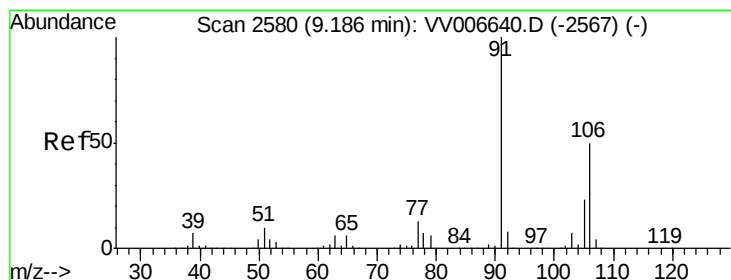
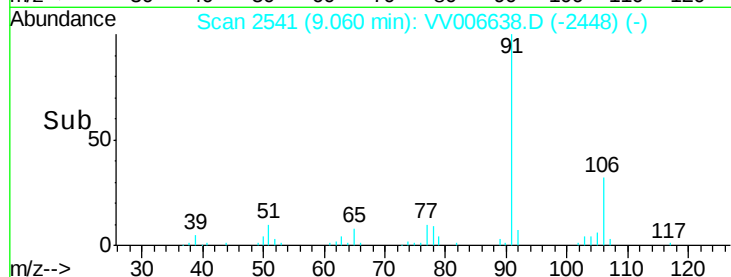
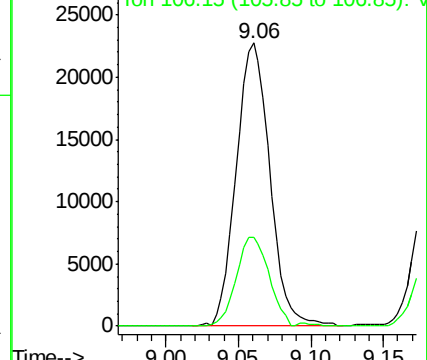
Ion Ratio Lower Upper

91 100

106 31.6 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV006640.D (-2527) (-)



#53

m,p-xylene

Concen: 0.380 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006638.D

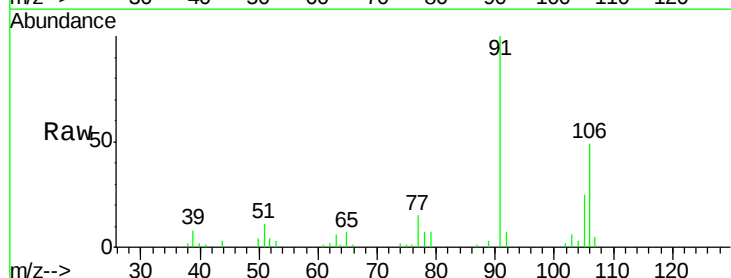
Acq: 19 Jul 2018 12:36

Tgt Ion: 106 Resp: 13279

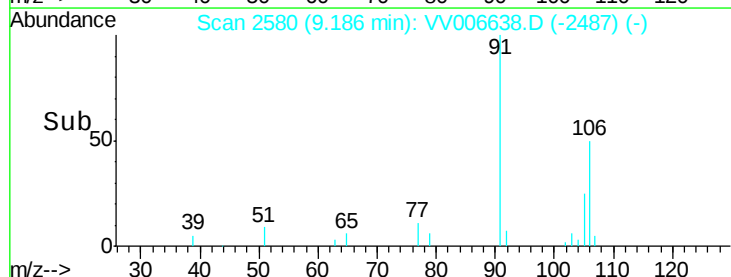
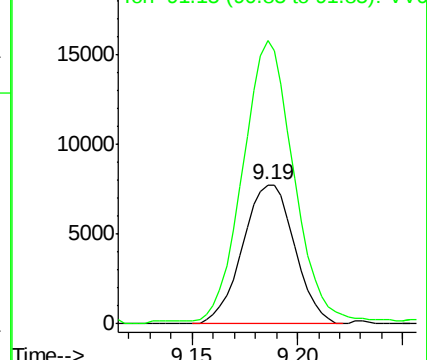
Ion Ratio Lower Upper

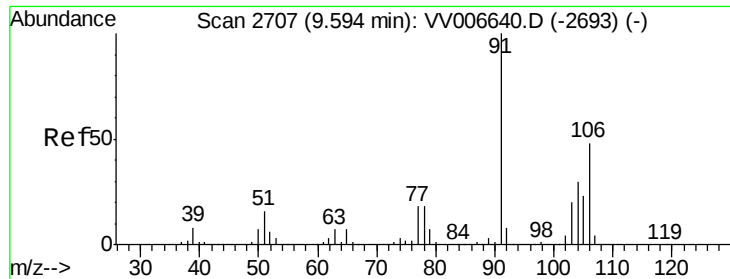
106 100

91 203.2 140.3 260.5



Abundance Ion 106.15 (105.85 to 106.85): VV006640.D (-2567) (-)





#54

o-xylene

Concen: 0.387 ug/L

RT: 9.59 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

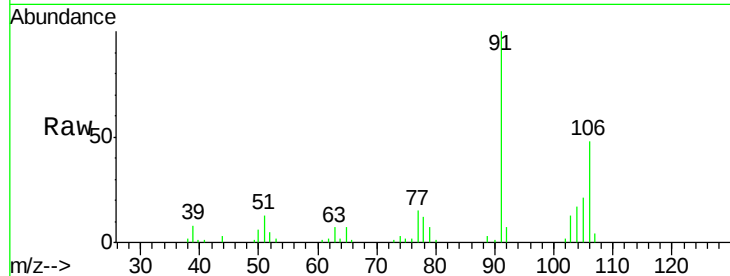
VSTD0.564

Tgt Ion:106 Resp: 13173

Ion Ratio Lower Upper

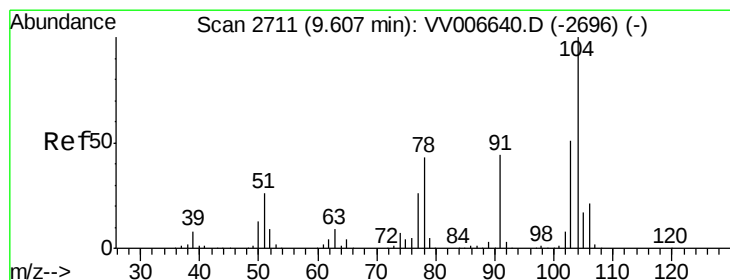
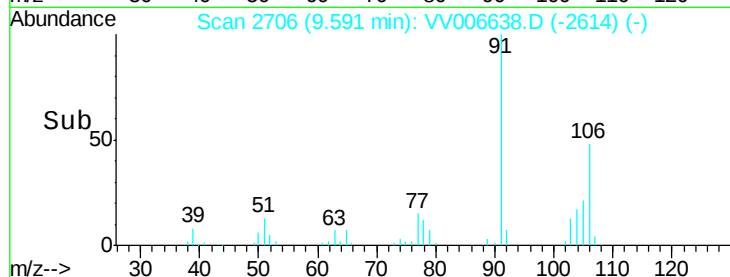
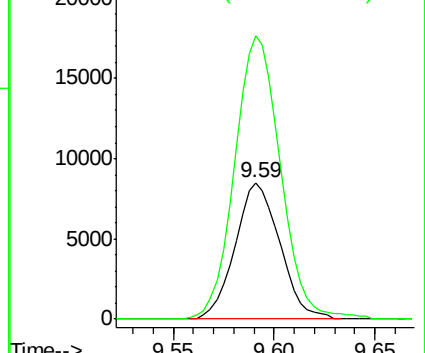
106 100

91 207.4 146.0 271.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.362 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. -0.00 min

Lab File: VV006638.D

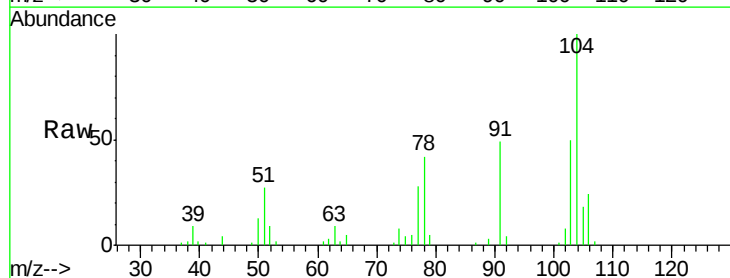
Acq: 19 Jul 2018 12:36

Tgt Ion:104 Resp: 20669

Ion Ratio Lower Upper

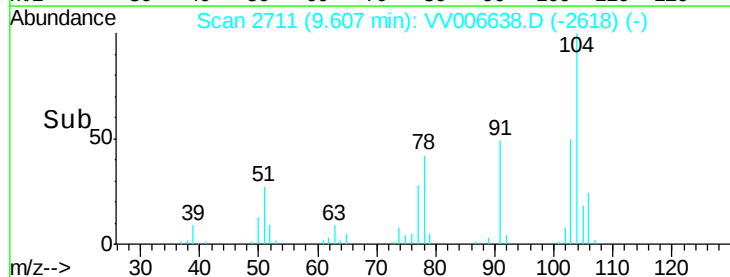
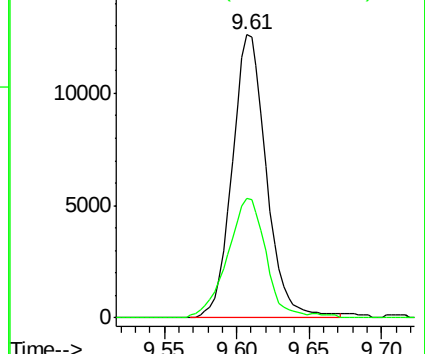
104 100

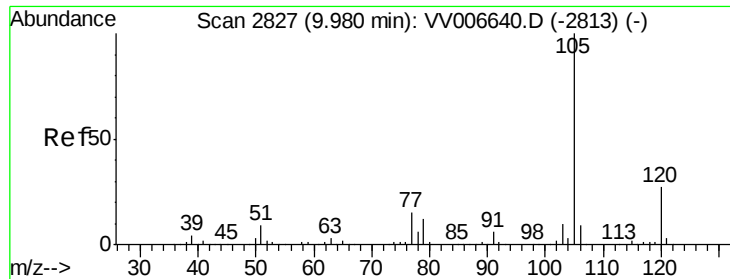
78 42.2 30.2 56.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.378 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

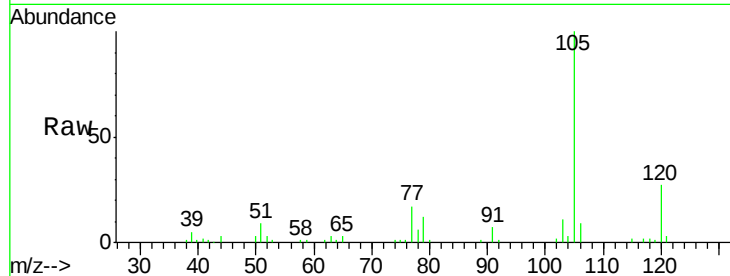
Tgt Ion:105 Resp: 33774

Ion Ratio Lower Upper

105 100

120 27.0 21.2 31.8

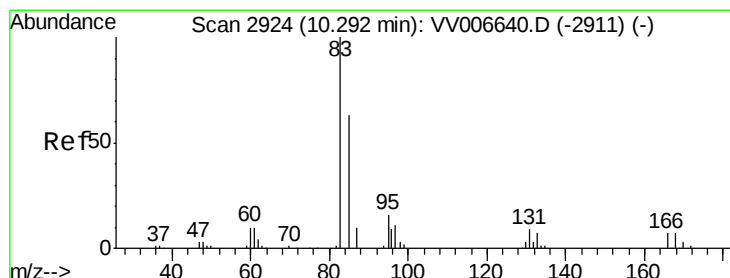
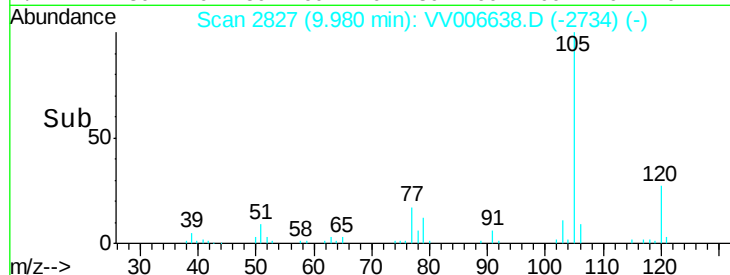
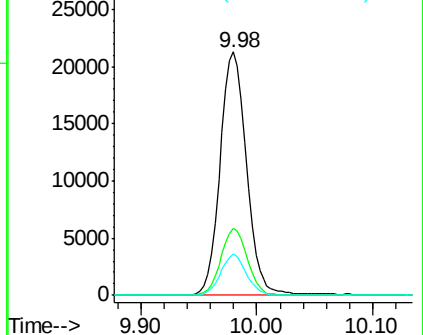
77 16.1 11.9 17.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.420 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

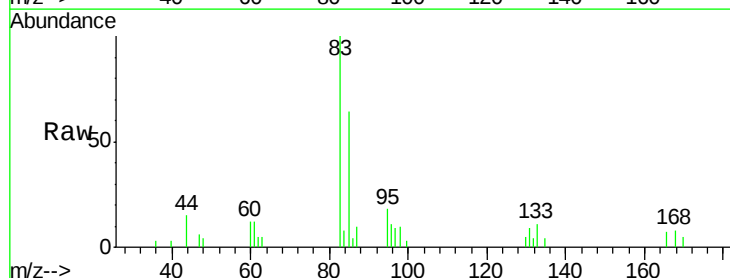
Tgt Ion: 83 Resp: 7151

Ion Ratio Lower Upper

83 100

85 64.0 44.4 82.5

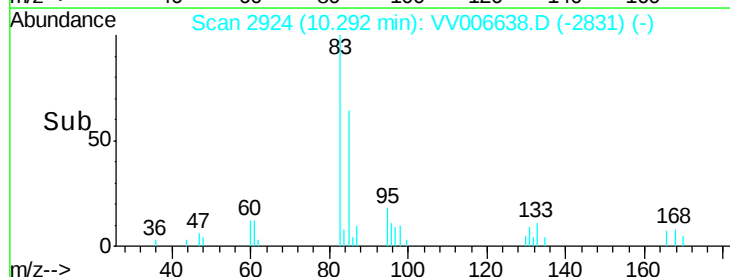
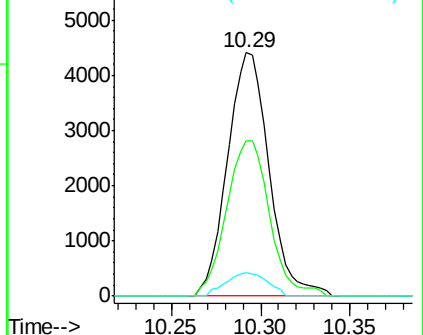
131 9.4 7.4 11.2

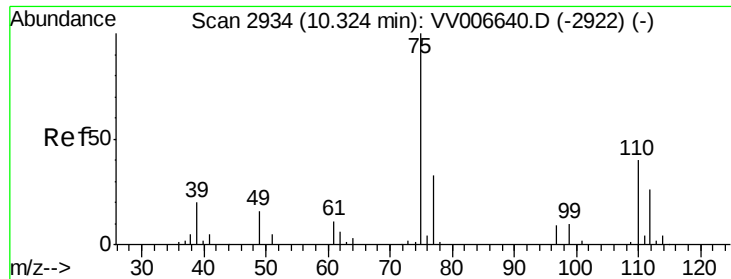


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

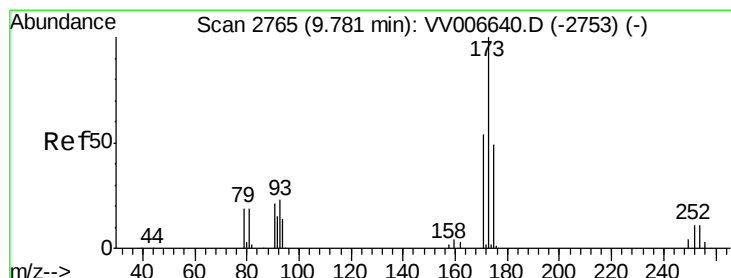
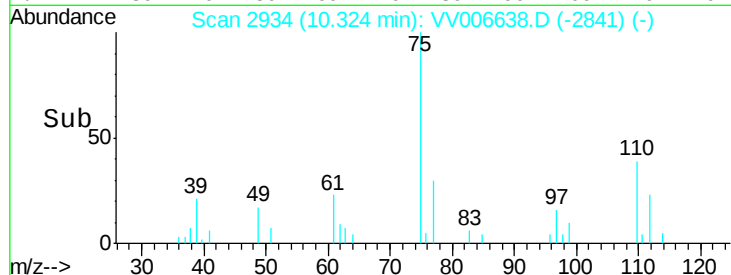
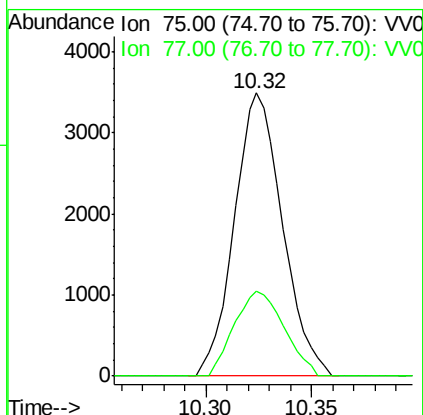
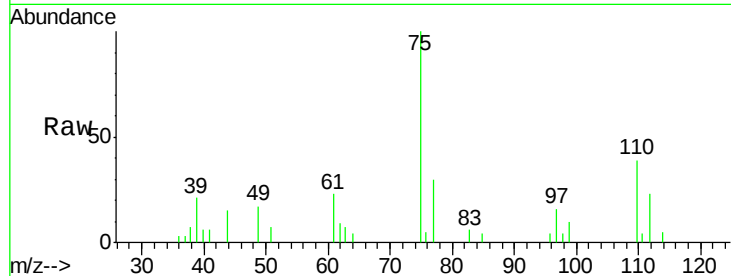




#59  
 1,2,3-Trichloropropane  
 Concen: 0.443 ug/L  
 RT: 10.32 min Scan# 2934  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

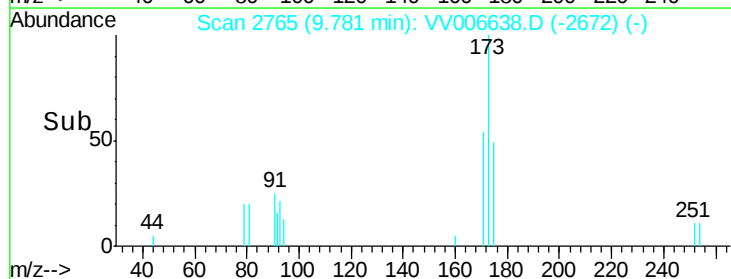
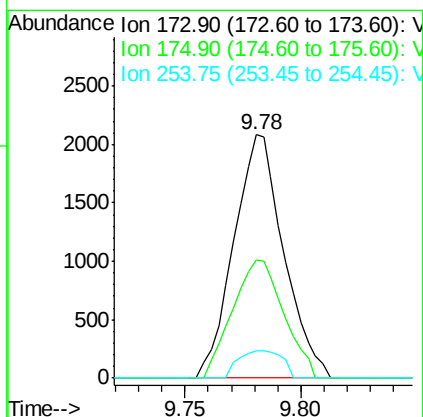
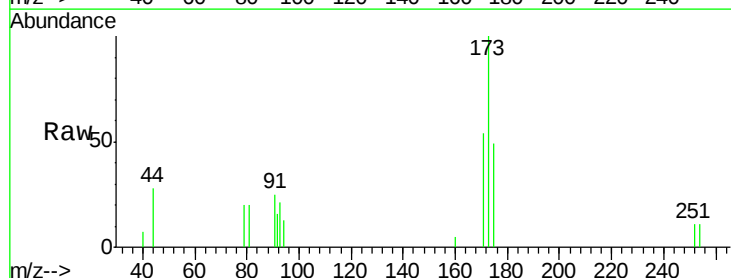
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

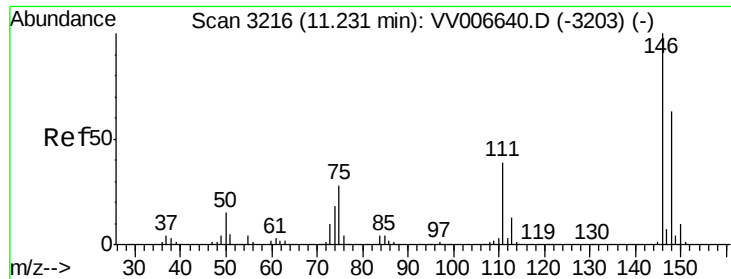
Tgt Ion: 75 Resp: 5519  
 Ion Ratio Lower Upper  
 75 100  
 77 31.0 26.2 39.4



#61  
 Bromoform  
 Concen: 0.434 ug/L  
 RT: 9.78 min Scan# 2765  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion: 173 Resp: 3103  
 Ion Ratio Lower Upper  
 173 100  
 175 49.8 38.9 58.3  
 254 9.7 9.1 13.7





#62

1,3-Dichlorobenzene

Concen: 0.460 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

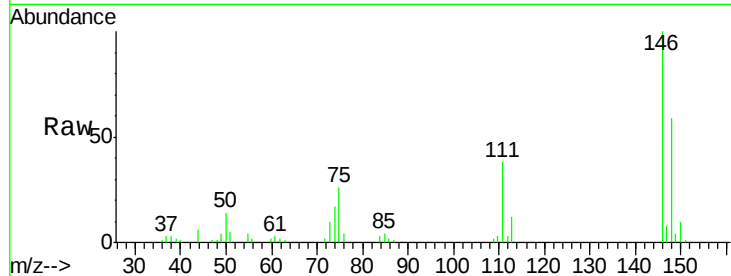
Tgt Ion:146 Resp: 17333

Ion Ratio Lower Upper

146 100

111 38.3 27.2 50.6

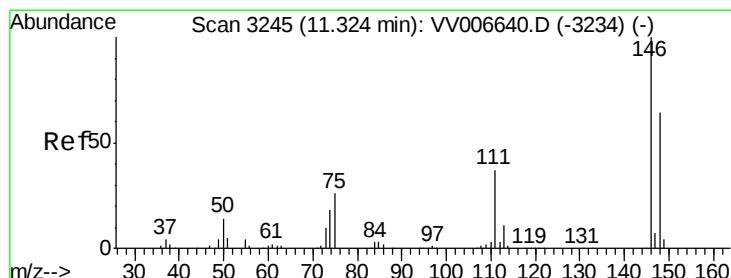
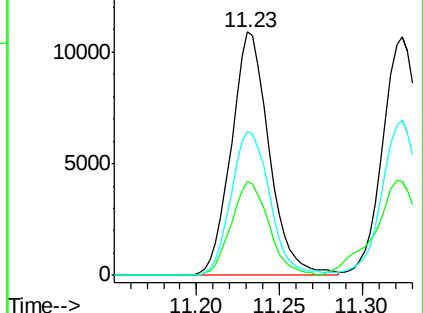
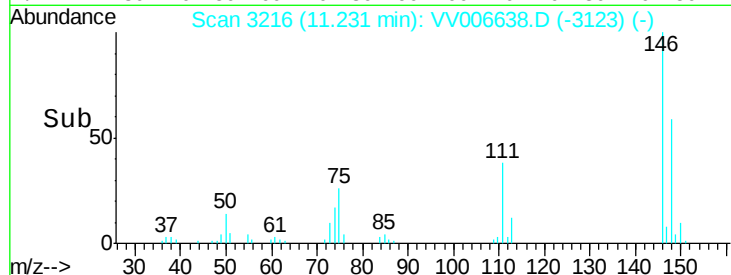
148 59.2 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.455 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

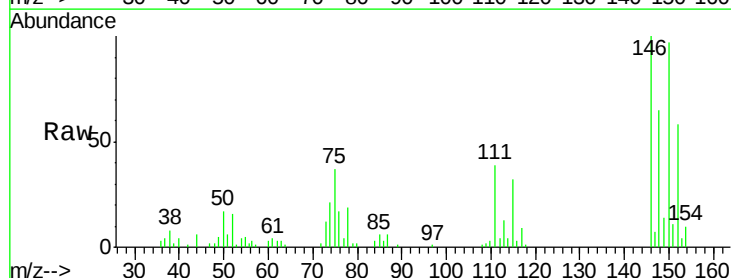
Tgt Ion:146 Resp: 17411

Ion Ratio Lower Upper

146 100

111 39.2 26.0 48.4

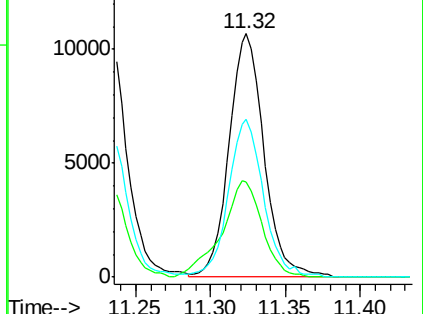
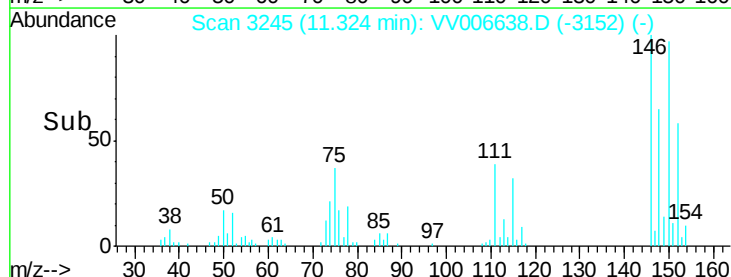
148 64.8 44.6 82.8

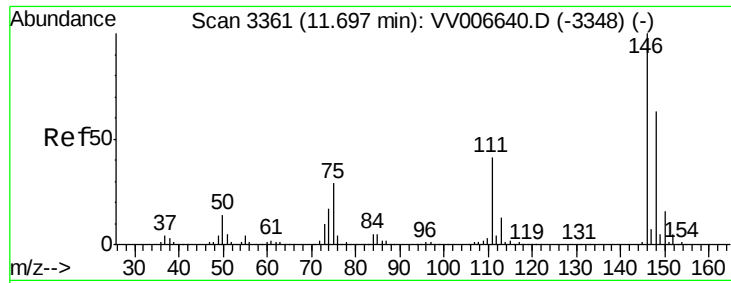


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.450 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

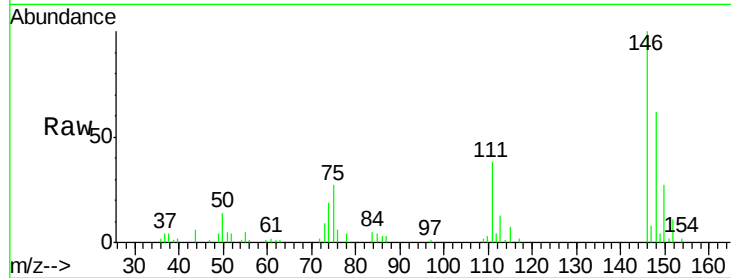
Tgt Ion: 146 Resp: 16245

Ion Ratio Lower Upper

146 100

111 37.7 32.6 49.0

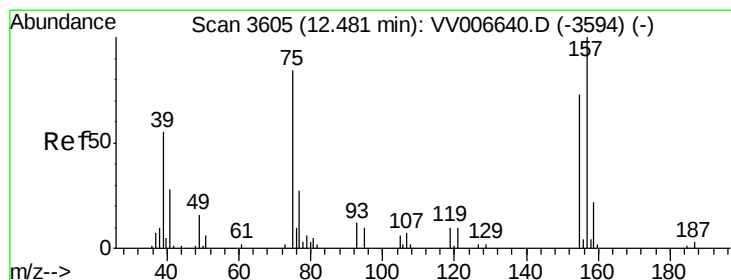
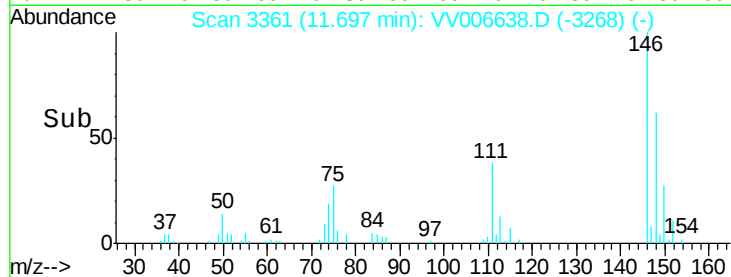
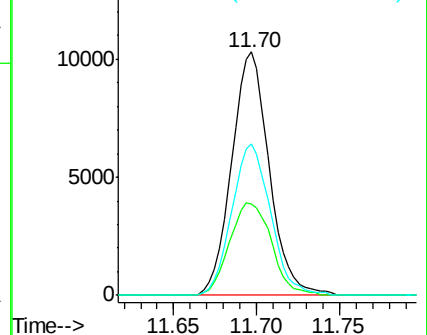
148 62.3 50.8 76.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.452 ug/L

RT: 12.48 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

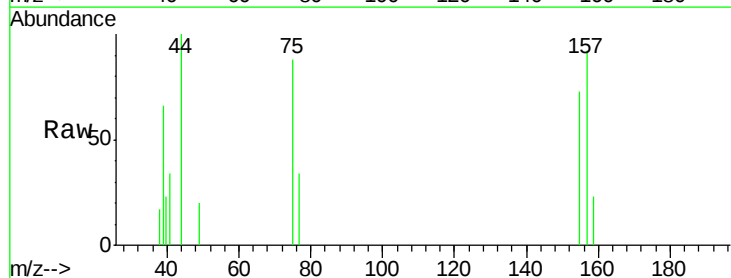
Tgt Ion: 75 Resp: 969

Ion Ratio Lower Upper

75 100

155 83.2 69.8 104.6

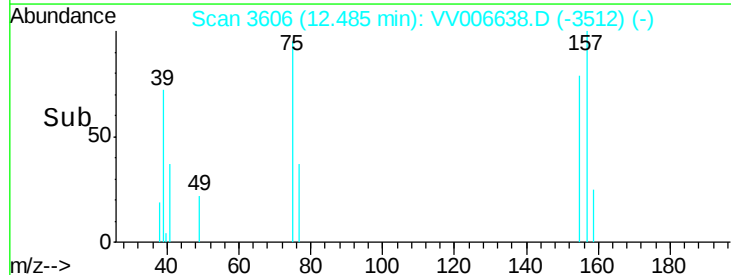
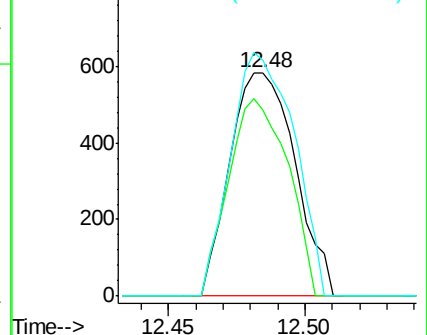
157 105.3 95.0 142.6

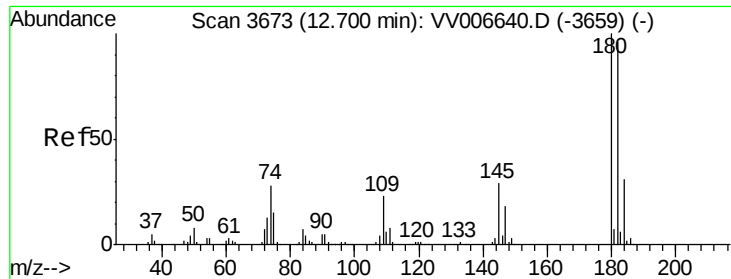


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

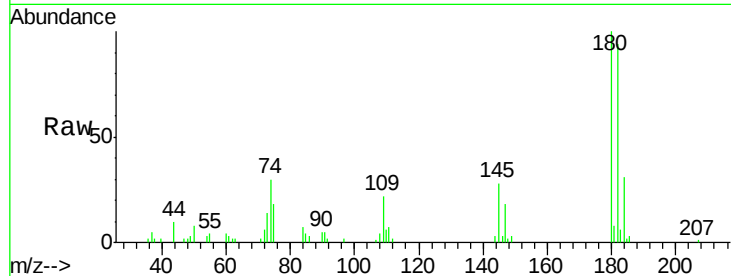




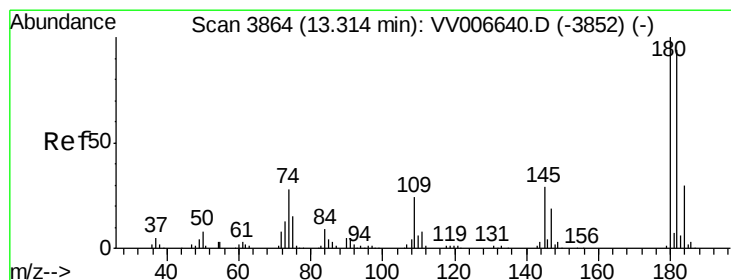
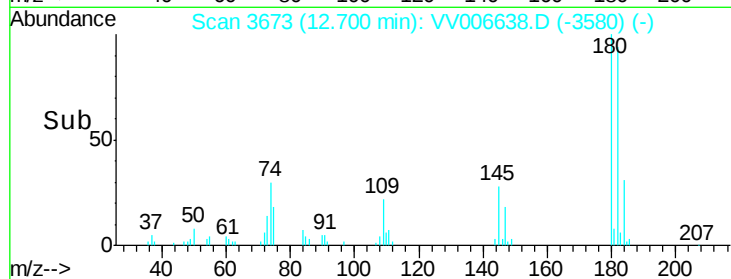
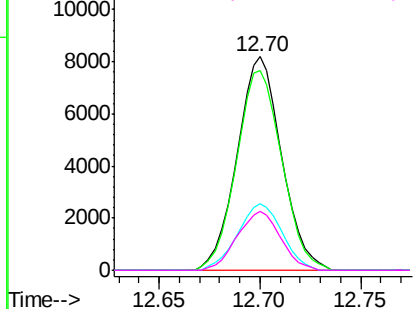
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.435 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. -0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.564

Tgt Ion:180 Resp: 12659  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 77.4 116.0  
 184 31.2 24.2 36.2  
 145 26.9 23.2 34.8

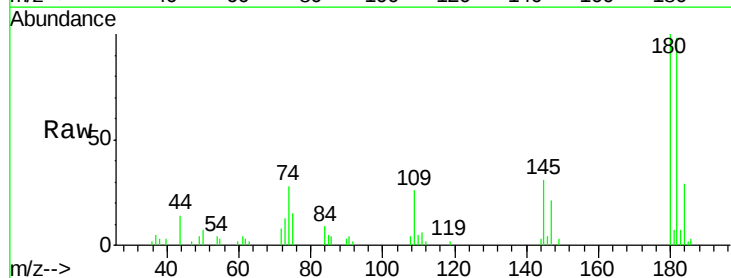


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

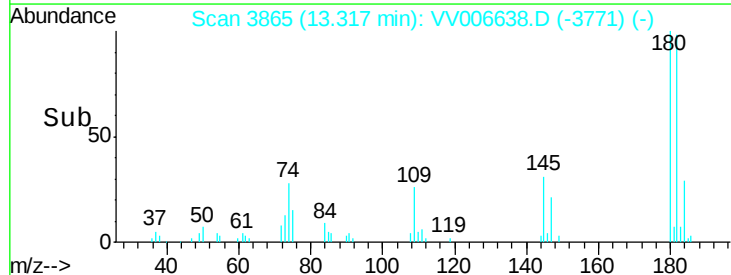
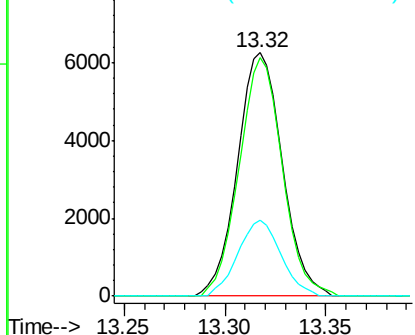


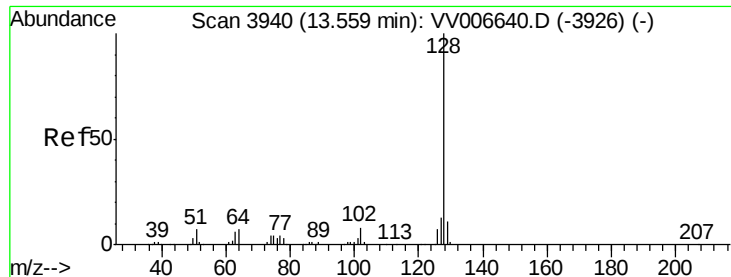
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.423 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. 0.00 min  
 Lab File: VV006638.D  
 Acq: 19 Jul 2018 12:36

Tgt Ion:180 Resp: 9760  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 75.8 113.8  
 145 29.8 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: 0.380 ug/L

RT: 13.56 min Scan# 3941

Delta R.T. 0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.564

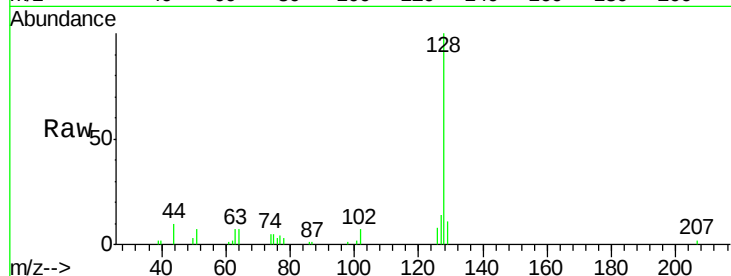
Tgt Ion:128 Resp: 15199

Ion Ratio Lower Upper

128 100

129 10.7 8.5 12.7

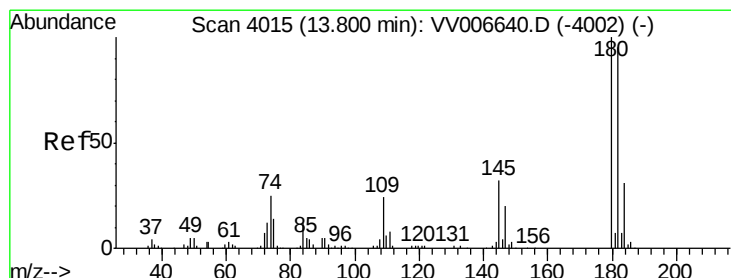
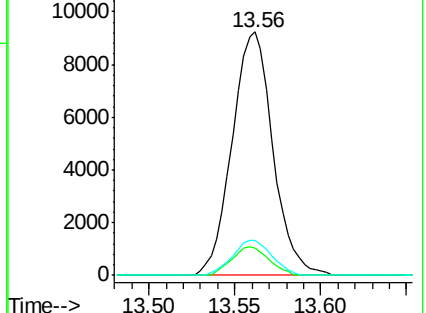
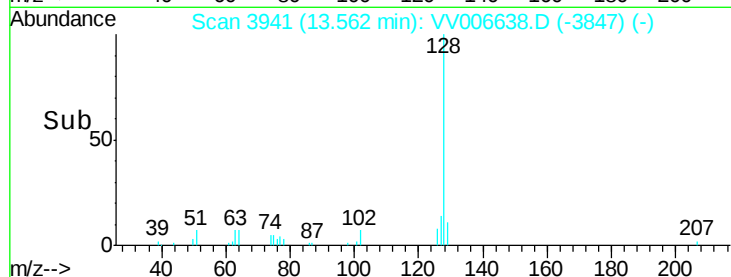
127 14.0 10.2 15.4



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: 0.436 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006638.D

Acq: 19 Jul 2018 12:36

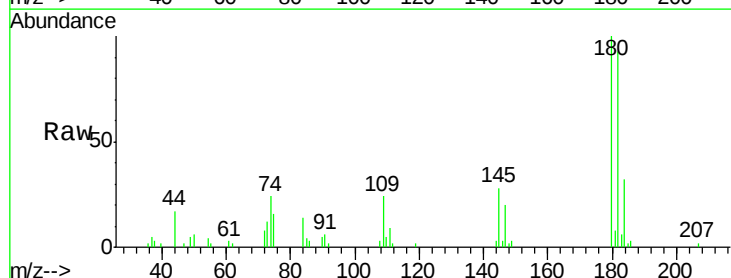
Tgt Ion:180 Resp: 9492

Ion Ratio Lower Upper

180 100

182 92.0 75.9 113.9

145 29.1 25.0 37.6



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

