

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082218\  
 Data File : VV007119.D  
 Acq On : 22 Aug 2018 14:07  
 Operator : SY/MD  
 Sample : VSTD005  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 23 07:40:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082218WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 23 07:39:41 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 622787   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 599629   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 236635   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 20574 | 4.46  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.56  | 69  | 14593 | 4.01  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 38041 | 4.17  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.95  | 46  | 29995 | 10.52 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 41432 | 4.70  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 26283 | 4.38  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 75747 | 4.51  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 26600 | 5.00  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 60311 | 3.81  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 9983  | 3.90  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.14  | 63  | 11985 | 5.42  | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 37727 | 4.99  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 22577 | 4.48  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |        | Qvalue   |
|--------------------------------|------|-----|-------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 31289 | 5.715  | ug/L 98  |
| 3) Chloromethane               | 1.25 | 50  | 41463 | 8.120  | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 29717 | 5.784  | ug/L 97  |
| 6) Bromomethane                | 1.51 | 94  | 6382  | 2.627  | ug/L 97  |
| 8) Chloroethane                | 1.58 | 64  | 17714 | 5.722  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 38817 | 5.137  | ug/L 95  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 23585 | 5.645  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 21858 | 5.628  | ug/L 96  |
| 13) Acetone                    | 2.19 | 43  | 39395 | 12.210 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 63794 | 6.979  | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 23636 | 4.920  | ug/L 100 |
| 16) Methylene chloride         | 2.53 | 84  | 26132 | 5.919  | ug/L 93  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 22964 | 6.049  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 68603 | 5.263  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 47246 | 6.060  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 24777 | 5.561  | ug/L 99  |
| 22) 2-Butanone                 | 4.03 | 43  | 45072 | 11.604 | ug/L 99  |
| 23) Bromochloromethane         | 4.30 | 128 | 13059 | 5.876  | ug/L 94  |
| 25) Chloroform                 | 4.43 | 83  | 47605 | 5.753  | ug/L 93  |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 34636 | 4.864  | ug/L 98  |
| 29) Cyclohexane                | 4.72 | 56  | 31646 | 4.931  | ug/L 98  |
| 30) 1,1,1-Trichloroethane      | 4.66 | 97  | 36584 | 5.136  | ug/L 99  |
| 31) Carbon tetrachloride       | 4.87 | 117 | 31129 | 5.114  | ug/L 98  |
| 33) Benzene                    | 5.15 | 78  | 92572 | 5.375  | ug/L 100 |
| 34) Trichloroethene            | 5.96 | 95  | 24749 | 5.638  | ug/L 94  |
| 35) Methylcyclohexane          | 6.17 | 83  | 31304 | 4.701  | ug/L 99  |
| 38) Bromodichloromethane       | 6.56 | 83  | 33409 | 5.632  | ug/L 98  |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 30298 | 4.579  | ug/L 99  |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 51726 | 7.661  | ug/L 98  |
| 42) Toluene                    | 7.43 | 91  | 80791 | 4.418  | ug/L 98  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082218\  
 Data File : VV007119.D  
 Acq On : 22 Aug 2018 14:07  
 Operator : SY/MD  
 Sample : VSTD005  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 23 07:40:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082218WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 23 07:39:41 2018  
 Response via : Initial Calibration

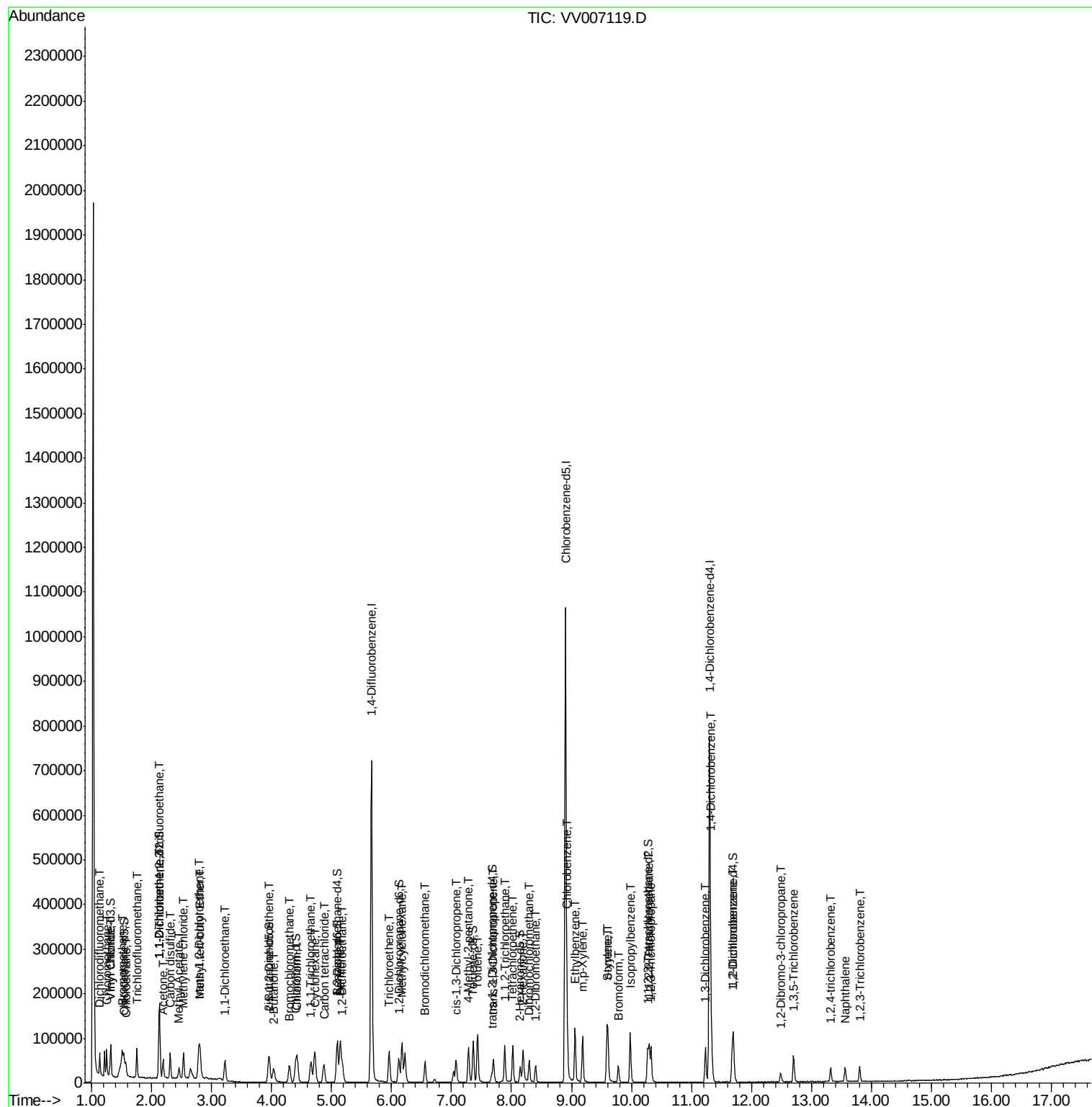
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 29514    | 4.621 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 24193    | 5.435 | ug/L   | 94       |
| 46) Tetrachloroethene          | 8.02  | 164  | 19870    | 5.774 | ug/L   | 93       |
| 48) 2-Hexanone                 | 8.19  | 43   | 44848    | 8.038 | ug/L   | 93       |
| 49) Dibromochloromethane       | 8.30  | 129  | 24066    | 5.274 | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 22588    | 4.904 | ug/L   | 96       |
| 51) Chlorobenzene              | 8.93  | 112  | 62234    | 5.119 | ug/L   | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 81925    | 4.054 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.19  | 106  | 30822    | 4.143 | ug/L   | 98       |
| 54) o-xylene                   | 9.59  | 106  | 27189    | 3.642 | ug/L   | 98       |
| 55) Styrene                    | 9.61  | 104  | 43931    | 3.413 | ug/L   | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 68696    | 3.451 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.30 | 83   | 40806    | 5.333 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 32907    | 5.315 | ug/L   | 97       |
| 61) Bromoform                  | 9.78  | 173  | 17078    | 6.753 | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 36683    | 4.994 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 36906    | 4.667 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 38899    | 4.882 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.49 | 75   | 5520     | 4.405 | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 21192    | 4.032 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 10950    | 2.592 | ug/L   | 95       |
| 69) Naphthalene                | 13.56 | 128  | 26729    | 2.064 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 10978    | 2.428 | ug/L   | 97       |

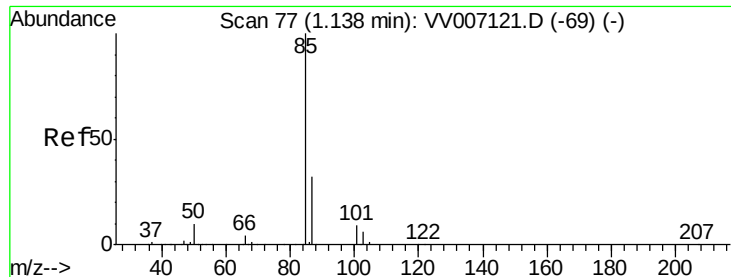
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082218\  
Data File : VV007119.D  
Acq On : 22 Aug 2018 14:07  
Operator : SY/MD  
Sample : VSTD005  
Misc : 5.0 mL/MSVOA V/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Aug 23 07:40:41 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082218WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 23 07:39:41 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.715 ug/L

RT: 1.14 min Scan# 77

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

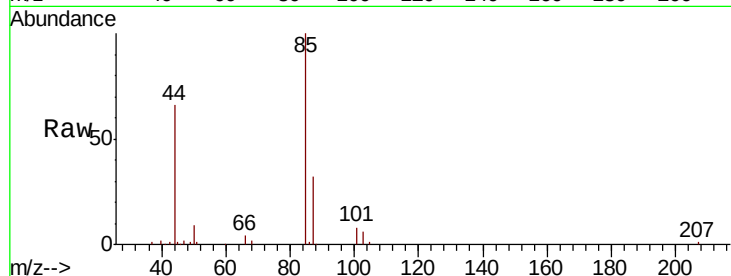
ClientSampleId :

Tot Ion: 85 Resp: 31289

Ion Ratio Lower Upper

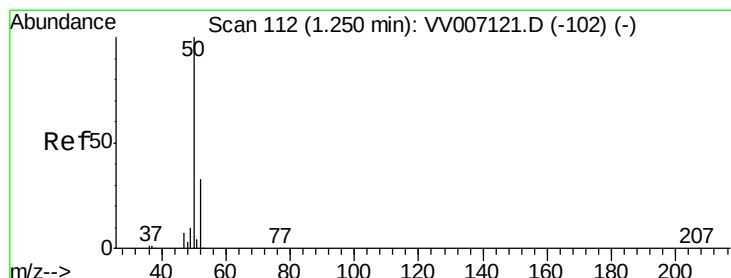
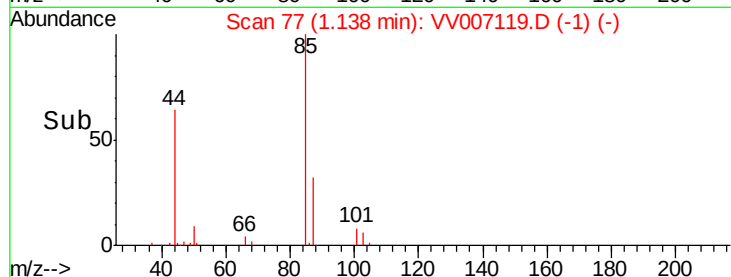
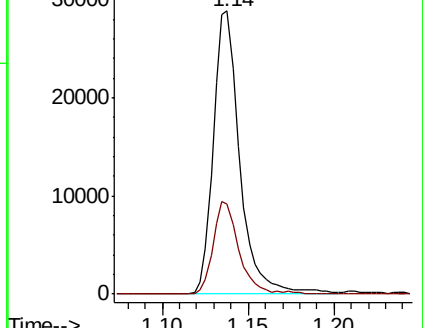
85 100

87 31.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV007119.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV007119.D (-1) (-)



#3

Chloromethane

Concen: 8.120 ug/L

RT: 1.25 min Scan# 112

Delta R.T. 0.00 min

Lab File: VV007119.D

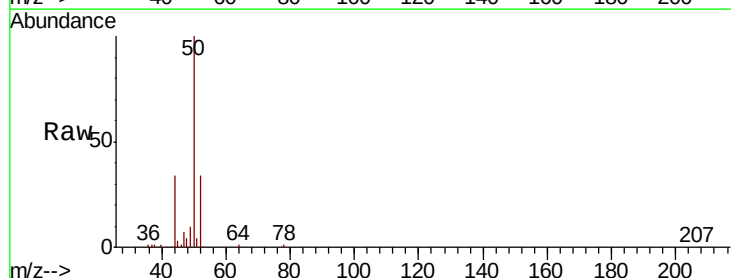
Acq: 22 Aug 2018 14:07

Tgt Ion: 50 Resp: 41463

Ion Ratio Lower Upper

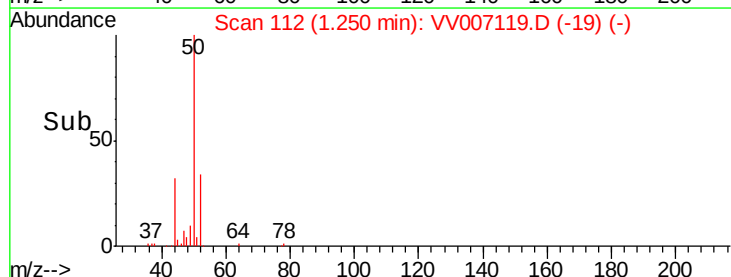
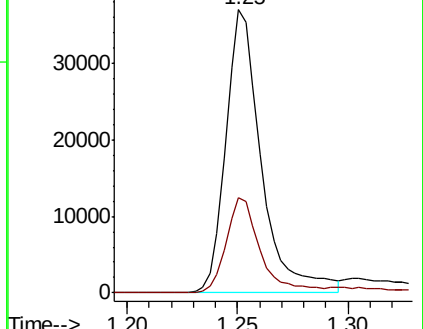
50 100

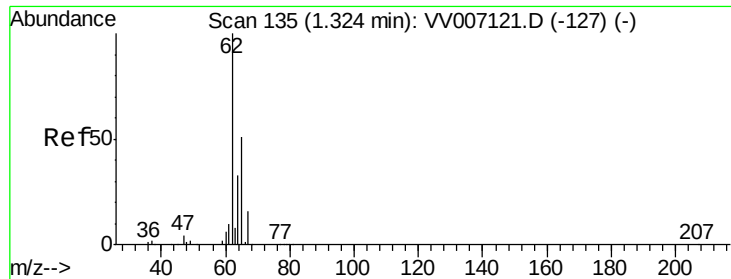
52 33.8 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV007119.D (-19) (-)

Ion 52.00 (51.70 to 52.70): VV007119.D (-19) (-)





#5

Vinyl chloride

Concen: 5.784 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

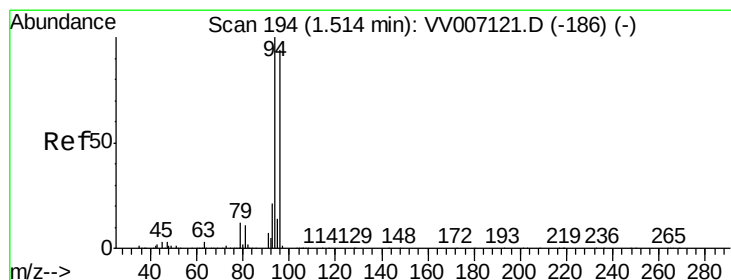
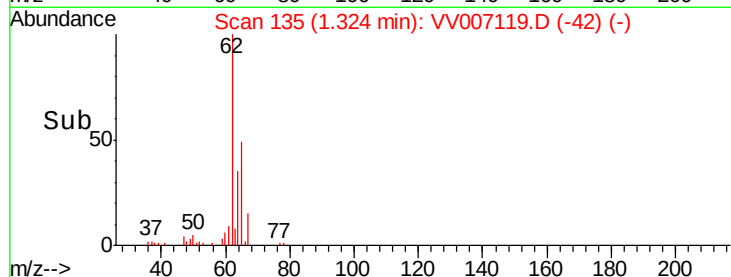
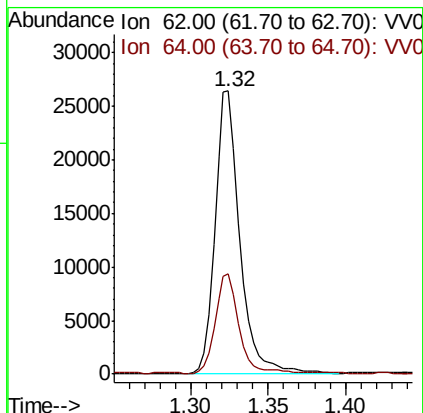
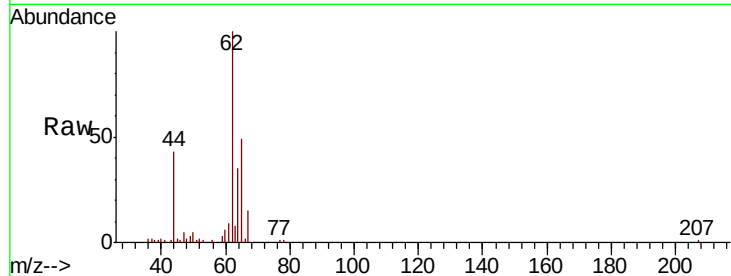
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 62 Resp: 29717

Ion Ratio Lower Upper

62 100

64 35.3 23.4 43.4



#6

Bromomethane

Concen: 2.627 ug/L

RT: 1.51 min Scan# 194

Delta R.T. 0.00 min

Lab File: VV007119.D

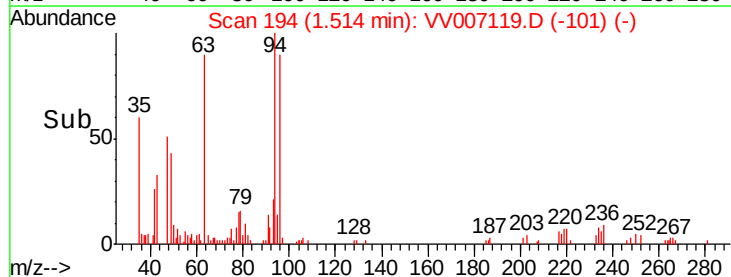
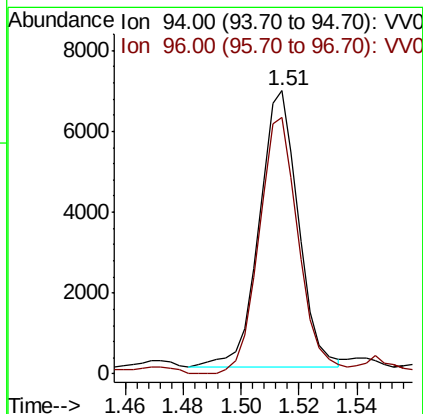
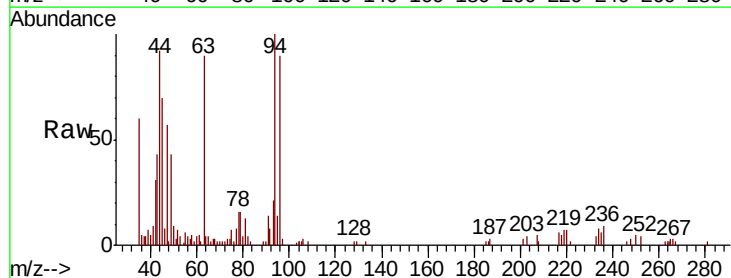
Acq: 22 Aug 2018 14:07

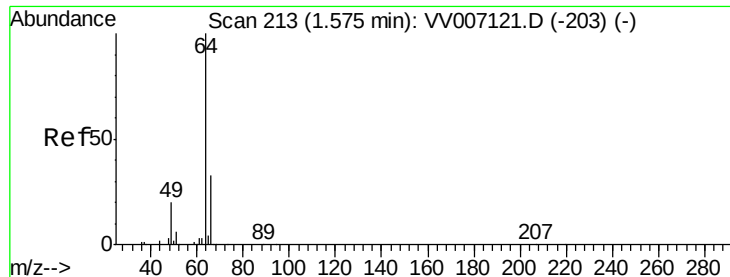
Tgt Ion: 94 Resp: 6382

Ion Ratio Lower Upper

94 100

96 90.5 65.5 121.6

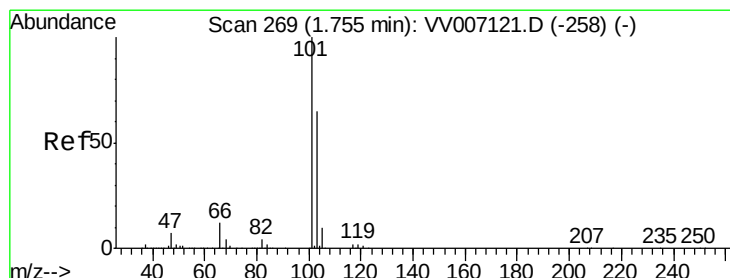
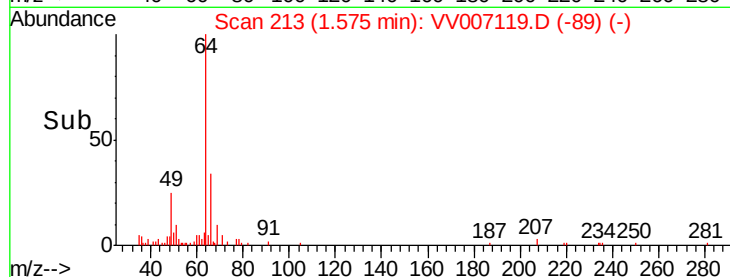
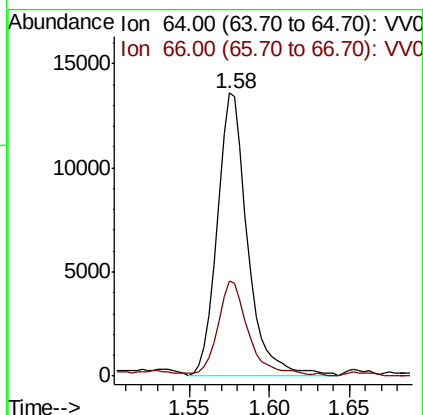
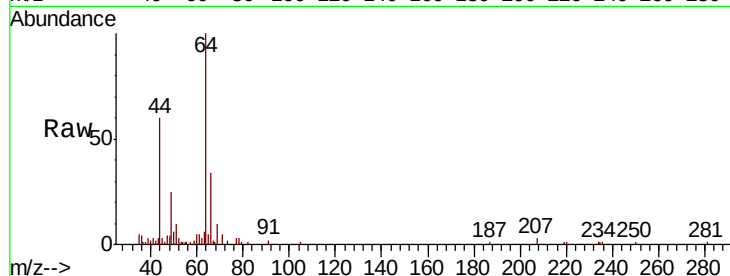




#8  
Chloroethane  
Concen: 5.722 ug/L  
RT: 1.58 min Scan# 213  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

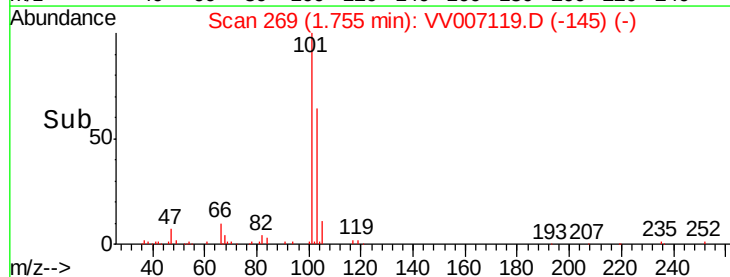
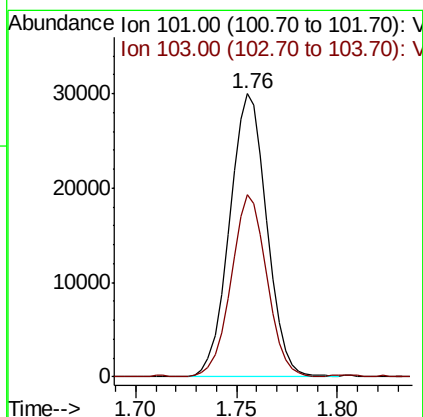
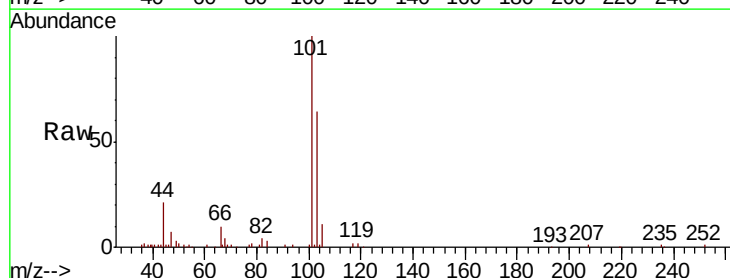
Instrument :  
MSVOA\_V  
ClientSampled :

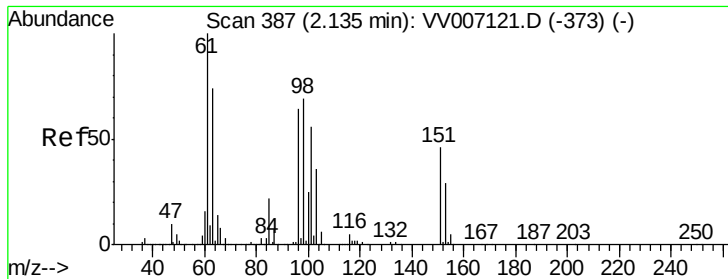
Tot Ion: 64 Resp: 17714  
Ion Ratio Lower Upper  
64 100  
66 33.8 22.8 42.4



#9  
Trichlorofluoromethane  
Concen: 5.137 ug/L  
RT: 1.76 min Scan# 269  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

Tgt Ion: 101 Resp: 38817  
Ion Ratio Lower Upper  
101 100  
103 61.7 52.5 78.7





#10

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

Concen: 5.645 ug/L

RT: 2.13 min Scan# 386

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

ClientSampleId :

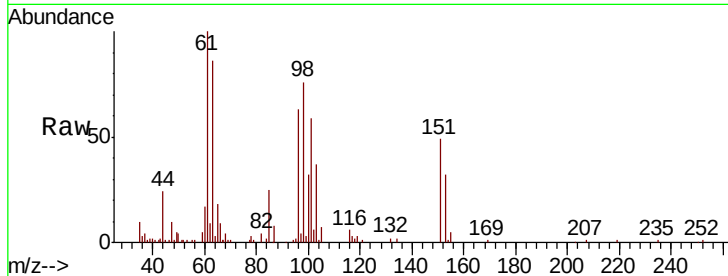
Tot Ion:101 Resp: 23585

Ion Ratio Lower Upper

101 100

85 41.0 32.5 48.7

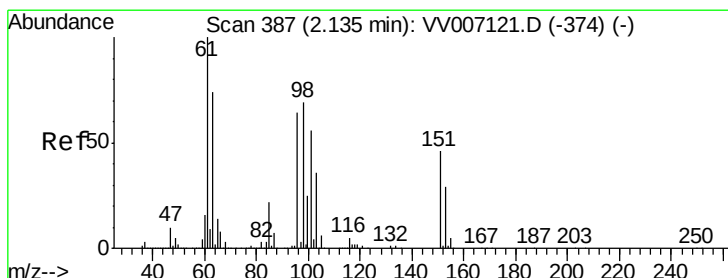
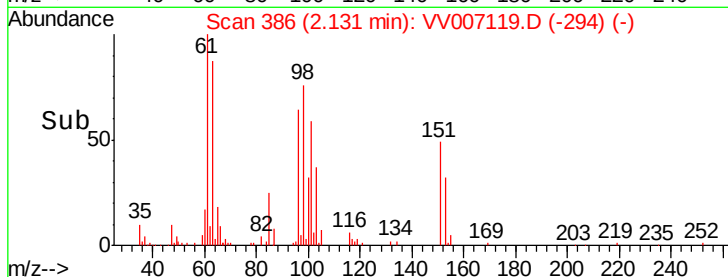
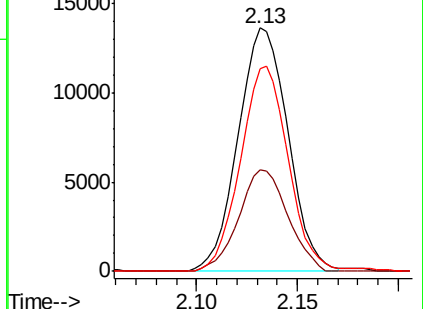
151 80.6 65.2 97.8



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: 5.628 ug/L

RT: 2.13 min Scan# 387

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

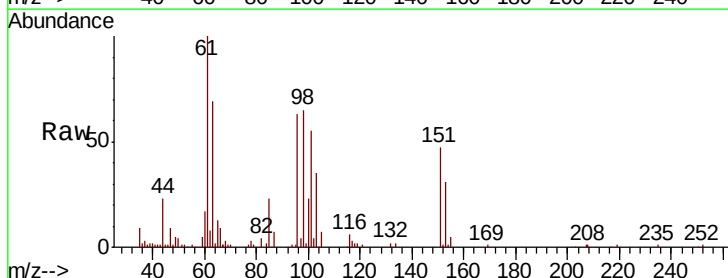
Tgt Ion: 96 Resp: 21858

Ion Ratio Lower Upper

96 100

61 157.8 110.0 204.2

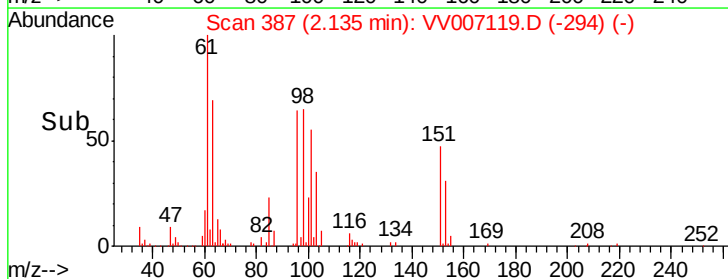
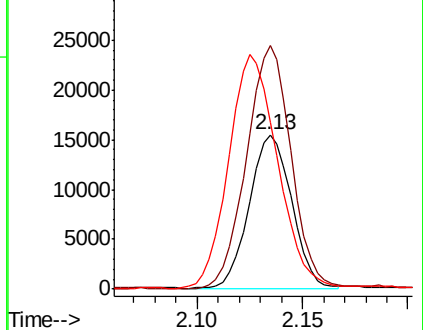
63 108.4 81.8 152.0

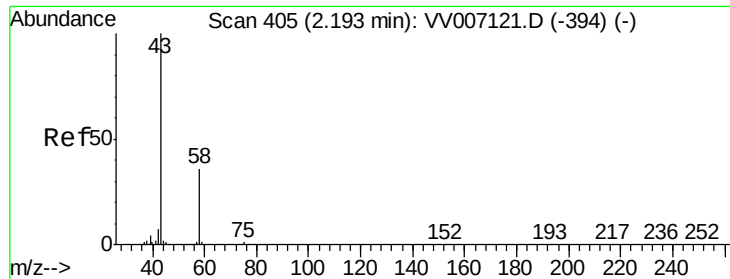


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 12.210 ug/L

RT: 2.19 min Scan# 405

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

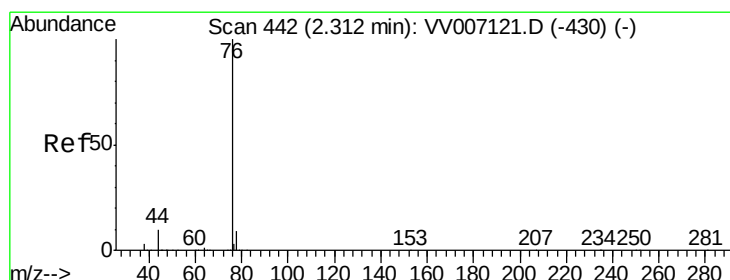
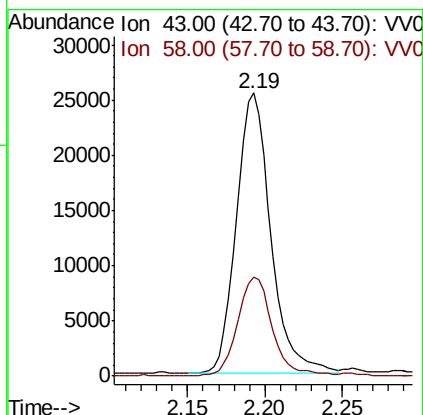
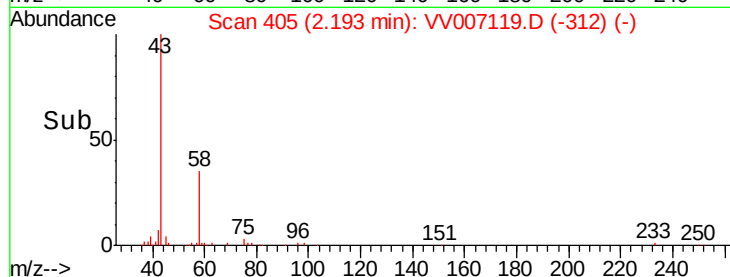
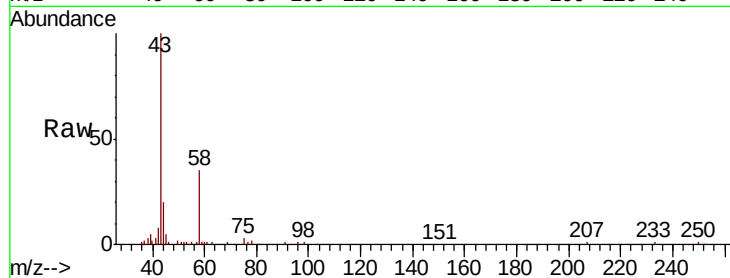
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 39395

Ion Ratio Lower Upper

43 100

58 35.6 0.0 73.0



#14

Carbon disulfide

Concen: 6.979 ug/L

RT: 2.31 min Scan# 442

Delta R.T. 0.00 min

Lab File: VV007119.D

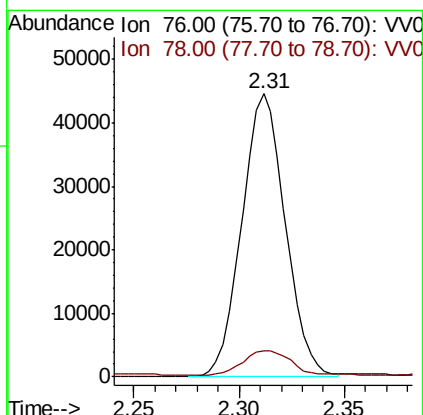
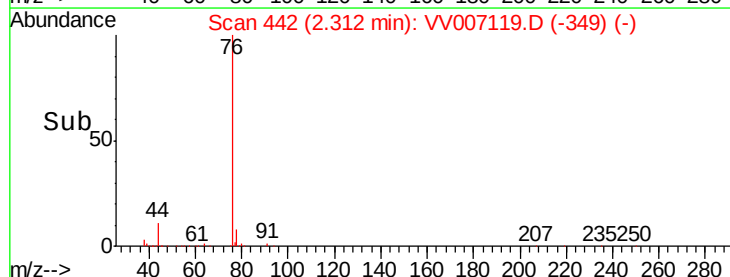
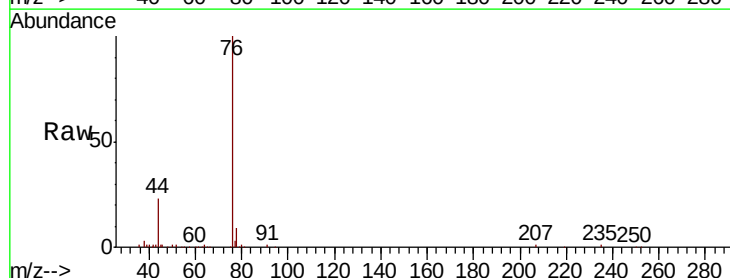
Acq: 22 Aug 2018 14:07

Tgt Ion: 76 Resp: 63794

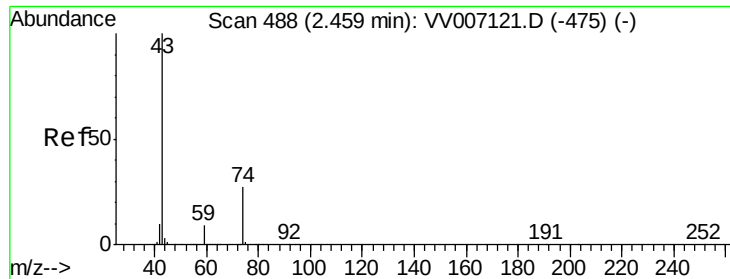
Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8



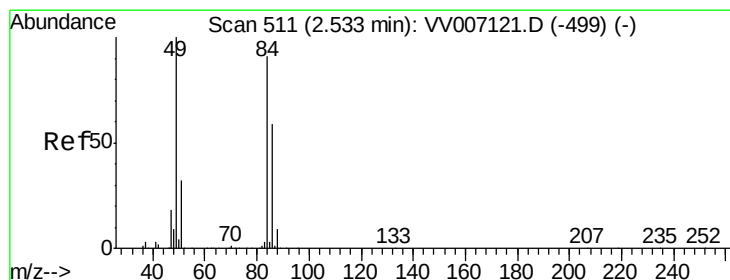
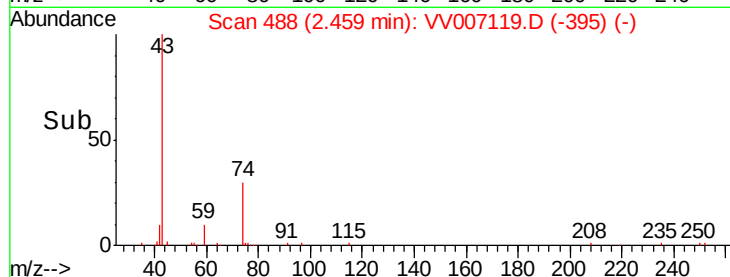
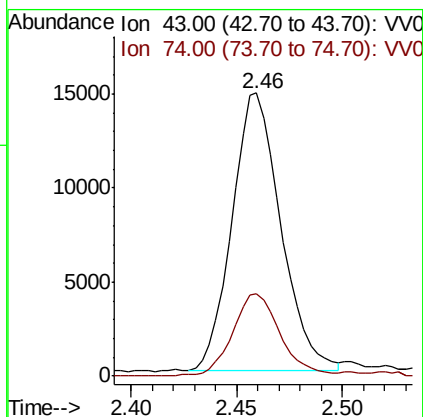
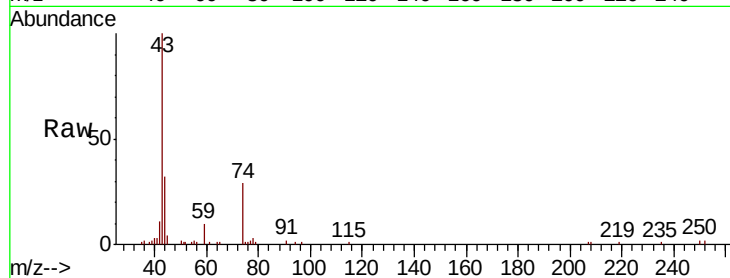




#15  
Methvl Acetate  
Concen: 4.920 ug/L  
RT: 2.46 min Scan# 488  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

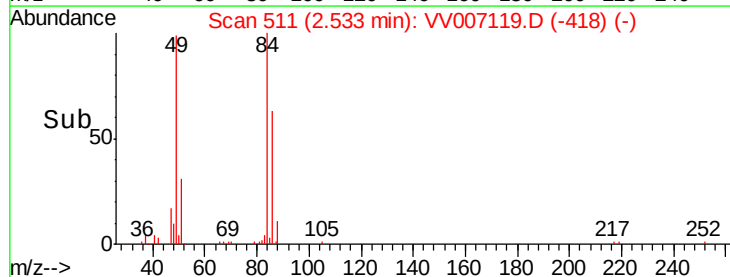
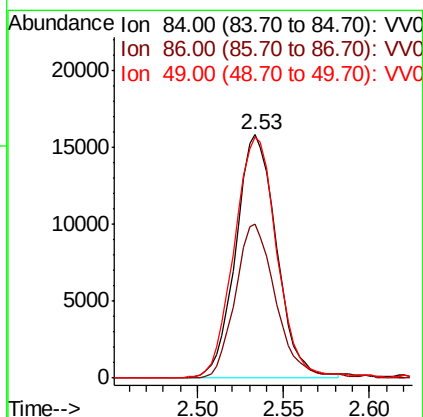
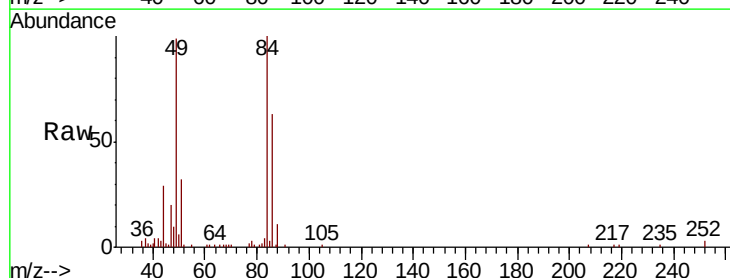
Instrument :  
MSVOA\_V  
ClientSampleId :

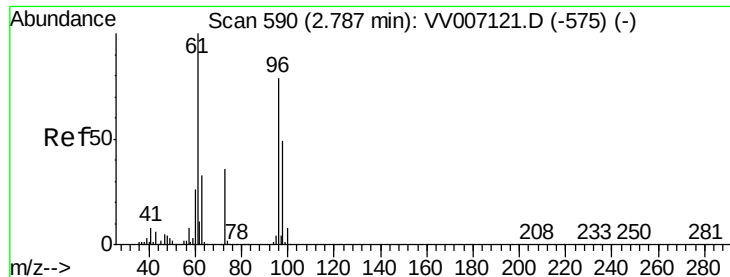
Tot Ion: 43 Resp: 23636  
Ion Ratio Lower Upper  
43 100  
74 27.6 22.2 33.2



#16  
Methylene chloride  
Concen: 5.919 ug/L  
RT: 2.53 min Scan# 511  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

Tgt Ion: 84 Resp: 26132  
Ion Ratio Lower Upper  
84 100  
86 63.1 45.4 84.4  
49 99.1 76.7 142.5





#17

trans-1,2-Dichloroethene

Concen: 6.049 ug/L

RT: 2.78 min Scan# 589

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

ClientSampleId :

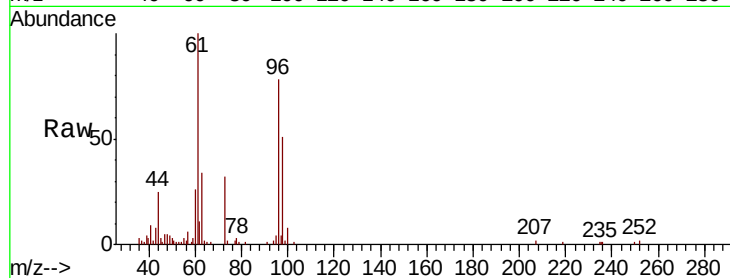
Tot Ion: 96 Resp: 22964

Ion Ratio Lower Upper

96 100

61 128.1 89.1 165.5

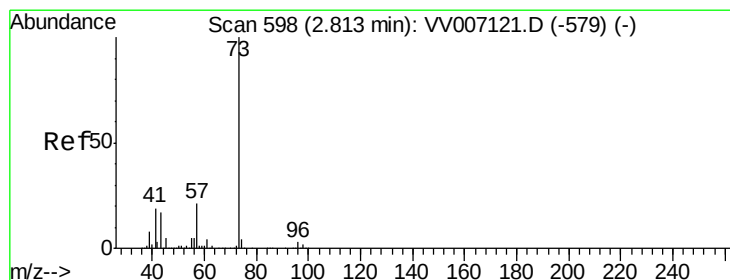
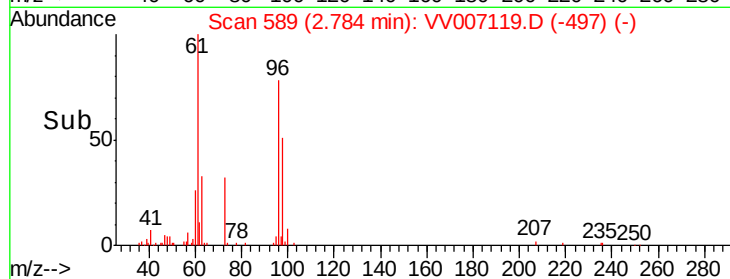
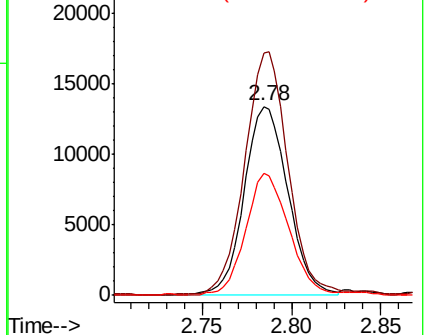
98 64.9 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VV007119.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VV007119.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VV007119.D (-575) (-)



#18

Methyl tert-butyl Ether

Concen: 5.263 ug/L

RT: 2.81 min Scan# 597

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

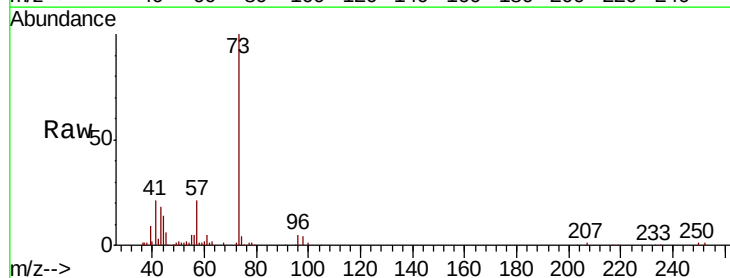
Tgt Ion: 73 Resp: 68603

Ion Ratio Lower Upper

73 100

43 18.0 13.6 20.4

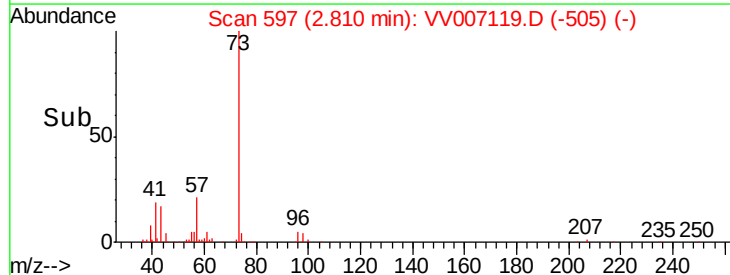
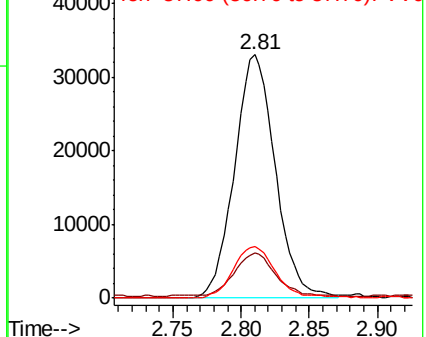
57 21.4 16.6 25.0

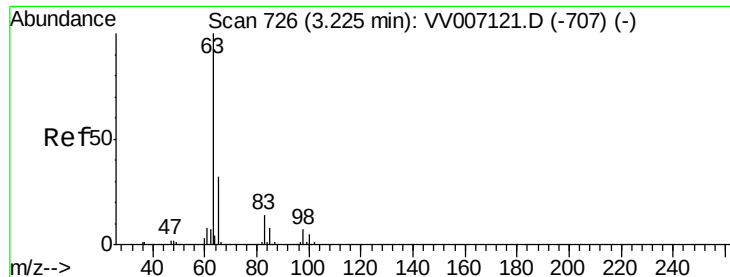


Abundance Ion 73.00 (72.70 to 73.70): VV007119.D (-579) (-)

Ion 43.00 (42.70 to 43.70): VV007119.D (-579) (-)

Ion 57.00 (56.70 to 57.70): VV007119.D (-579) (-)

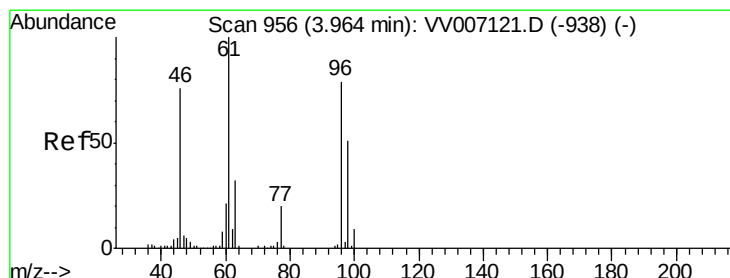
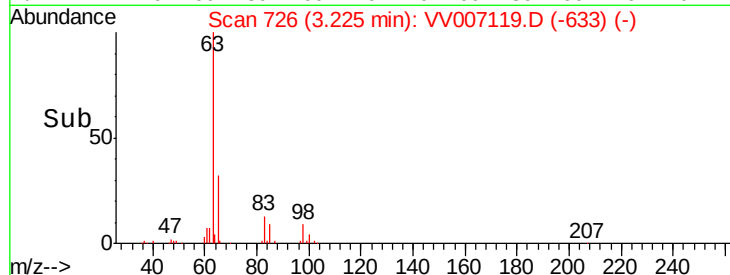
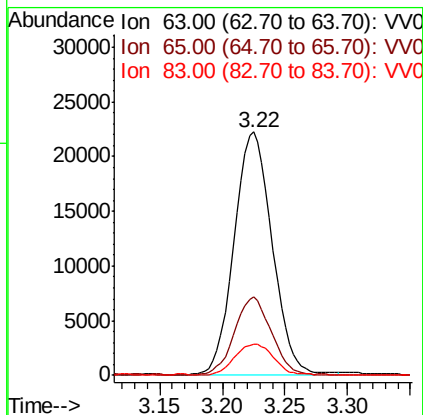
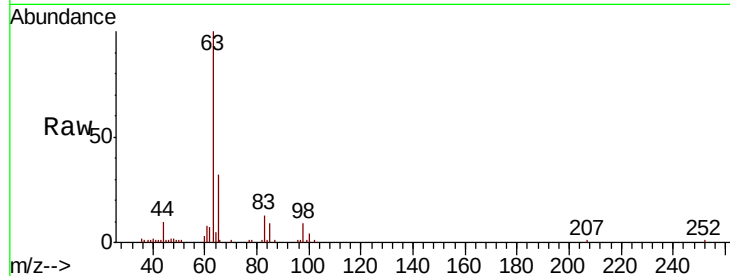




#19  
 1,1-Dichloroethane  
 Concen: 6.060 ug/L  
 RT: 3.22 min Scan# 726  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

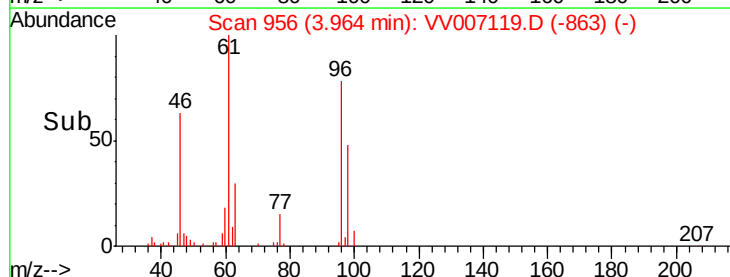
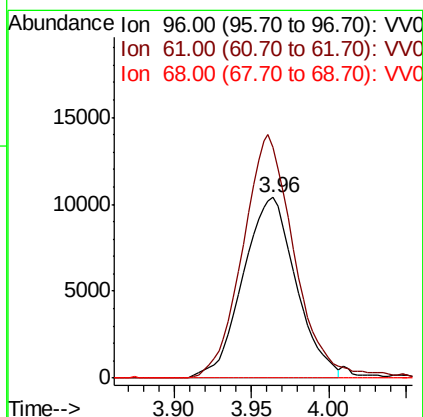
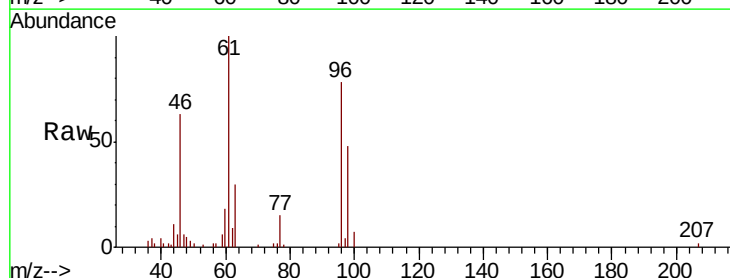
Instrument :  
 MSVOA\_V  
 ClientSampleId :

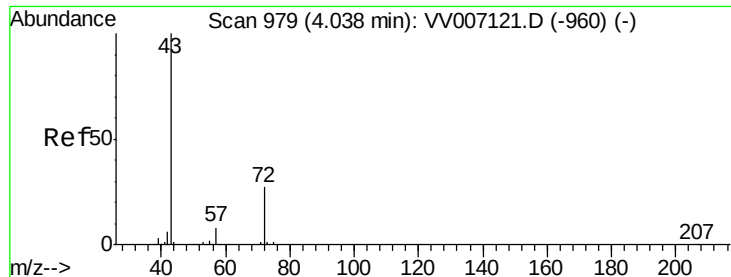
Tot Ion: 63 Resp: 47246  
 Ion Ratio Lower Upper  
 63 100  
 65 32.4 22.7 42.3  
 83 12.6 9.4 17.6



#20  
 cis-1,2-Dichloroethene  
 Concen: 5.561 ug/L  
 RT: 3.96 min Scan# 956  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

Tgt Ion: 96 Resp: 24777  
 Ion Ratio Lower Upper  
 96 100  
 61 128.2 89.0 165.4  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 11.604 ug/L

RT: 4.03 min Scan# 978

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

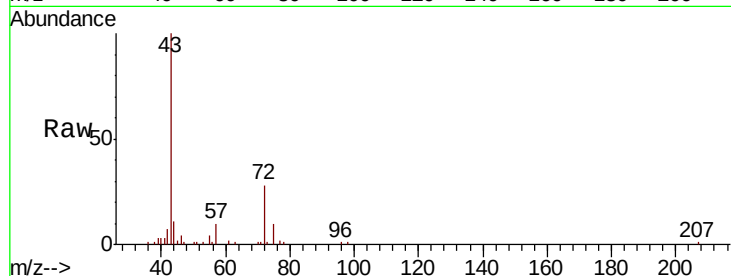
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 45072

Ion Ratio Lower Upper

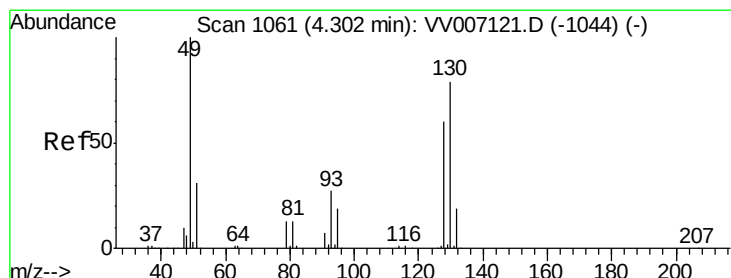
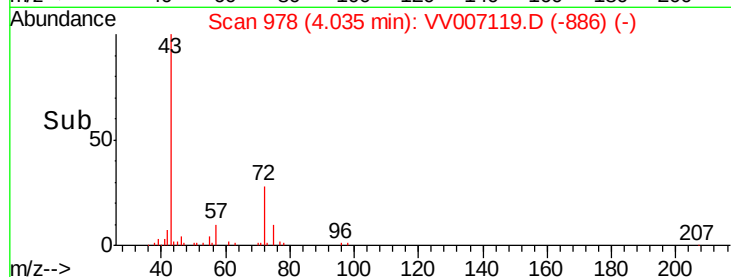
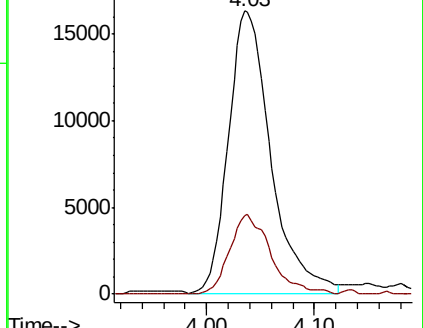
43 100

72 26.6 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VV007119.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV007119.D (-886) (-)



#23

Bromochloromethane

Concen: 5.876 ug/L

RT: 4.30 min Scan# 1060

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Tgt Ion:128 Resp: 13059

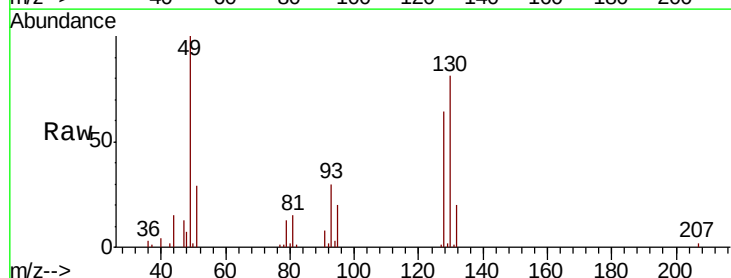
Ion Ratio Lower Upper

128 100

49 156.4 116.4 216.2

130 127.3 91.6 170.2

51 45.7 41.4 62.2

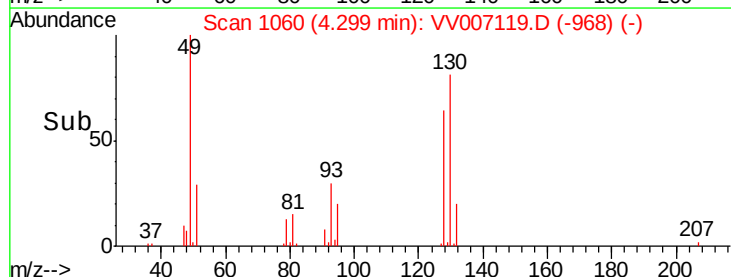
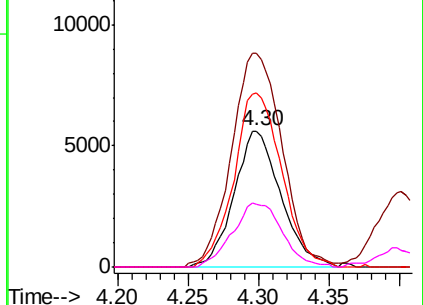


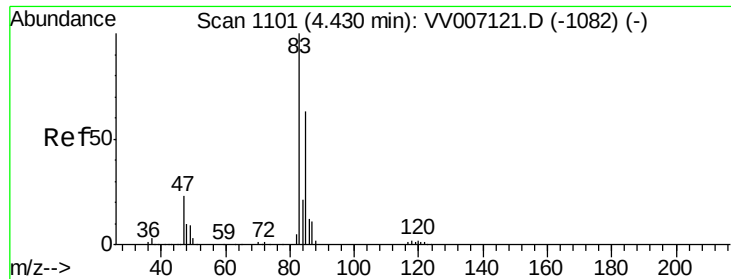
Abundance Ion 128.00 (127.70 to 128.70): VV007119.D (-968) (-)

Ion 49.00 (48.70 to 49.70): VV007119.D (-968) (-)

Ion 130.00 (129.70 to 130.70): VV007119.D (-968) (-)

Ion 51.00 (50.70 to 51.70): VV007119.D (-968) (-)

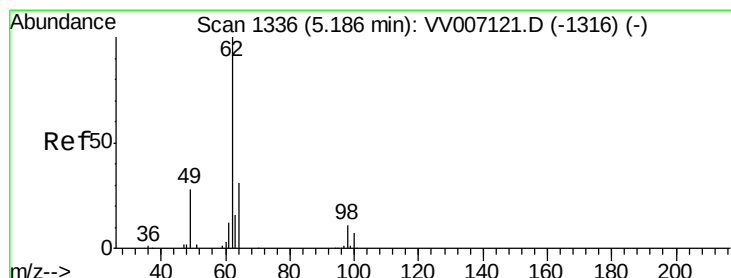
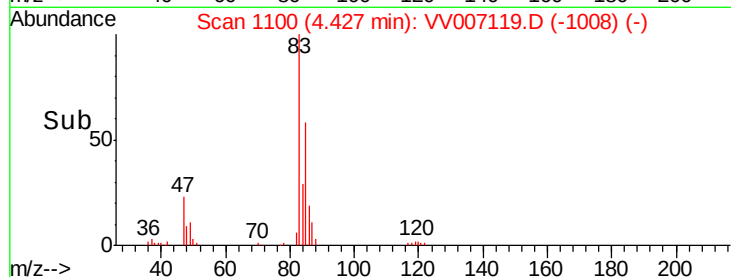
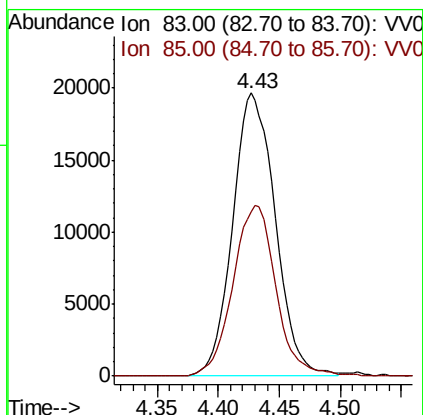
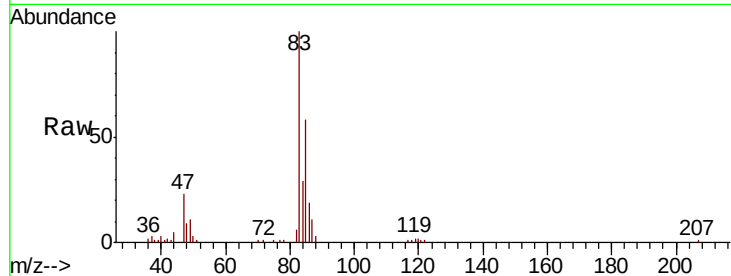




#25  
Chloroform  
Concen: 5.753 ug/L  
RT: 4.43 min Scan# 1100  
Delta R.T. -0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

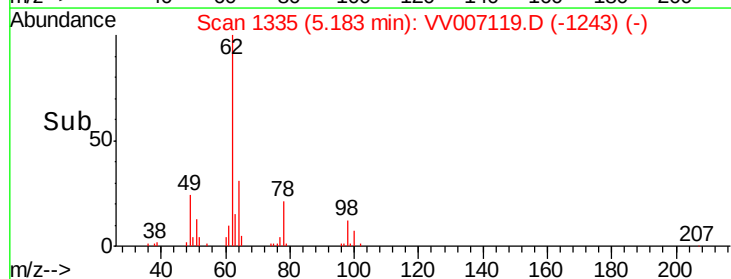
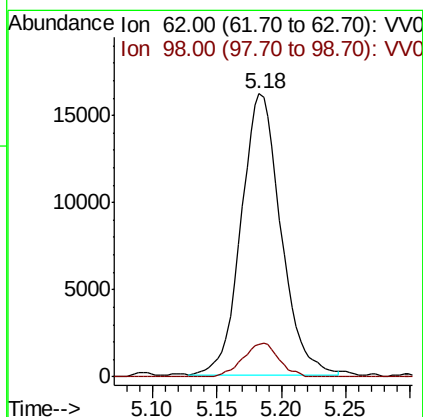
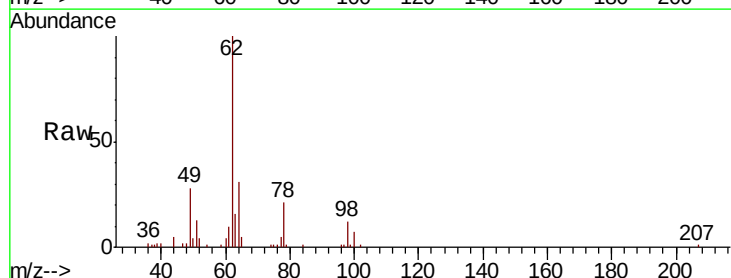
Instrument :  
MSVOA\_V  
ClientSampled :

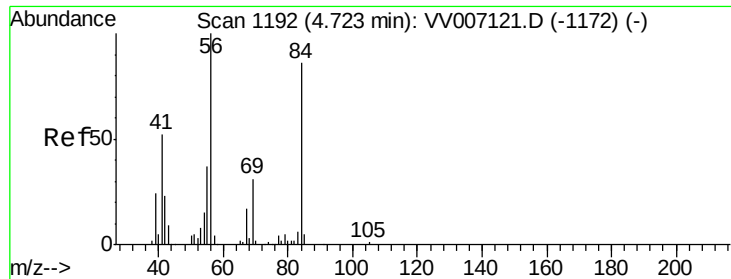
Tot Ion: 83 Resp: 47605  
Ion Ratio Lower Upper  
83 100  
85 58.0 44.4 82.5



#27  
1,2-Dichloroethane  
Concen: 4.864 ug/L  
RT: 5.18 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

Tgt Ion: 62 Resp: 34636  
Ion Ratio Lower Upper  
62 100  
98 11.7 8.7 13.1

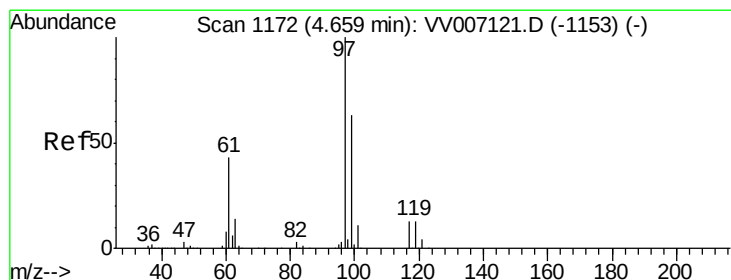
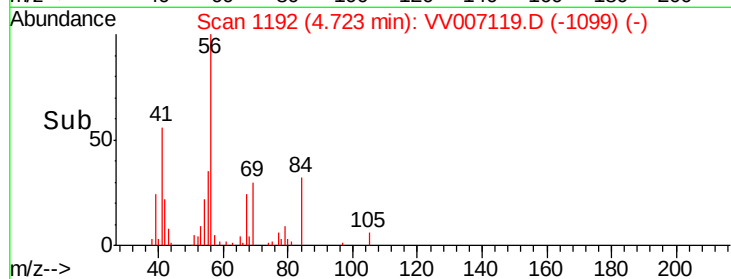
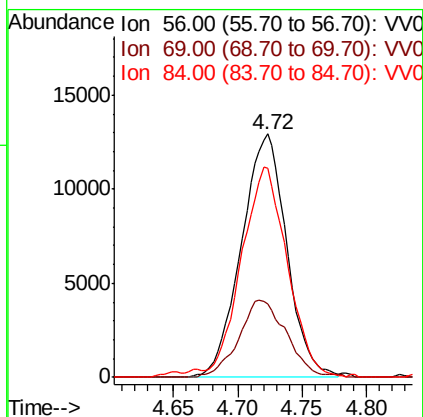
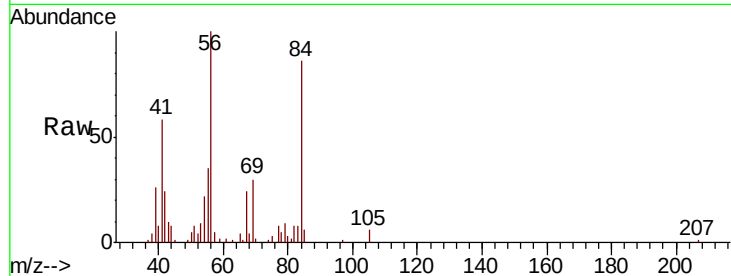




#29  
Cyclohexane  
Concen: 4.931 ug/L  
RT: 4.72 min Scan# 1192  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

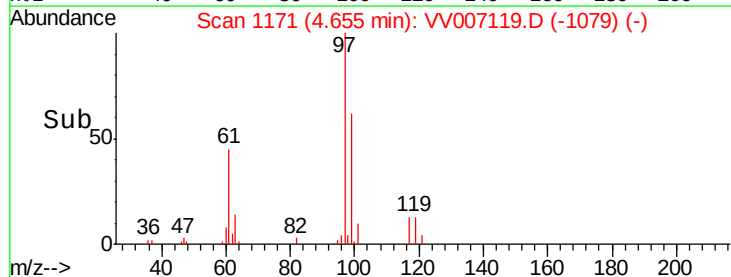
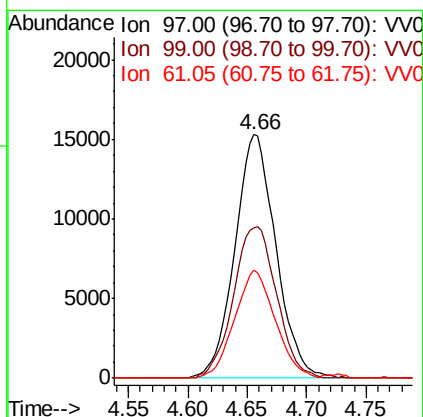
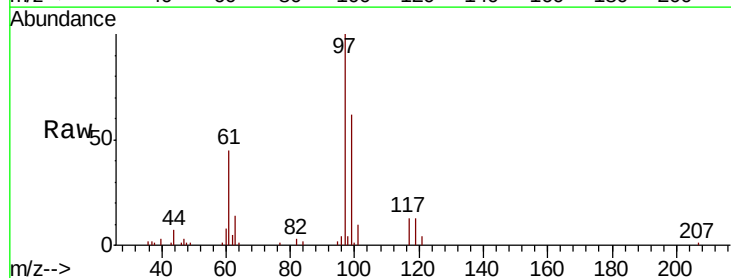
Instrument :  
MSVOA\_V  
ClientSampleId :

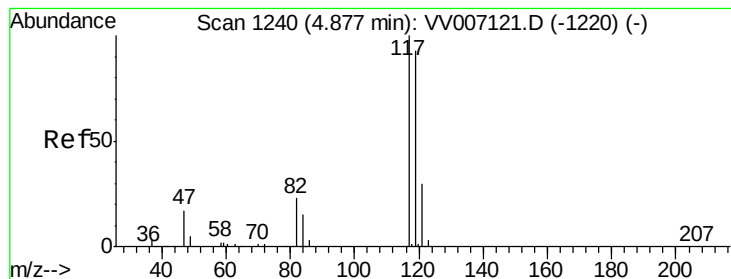
Tot Ion: 56 Resp: 31646  
Ion Ratio Lower Upper  
56 100  
69 33.0 24.5 36.7  
84 87.2 69.0 103.6



#30  
1,1,1-Trichloroethane  
Concen: 5.136 ug/L  
RT: 4.66 min Scan# 1171  
Delta R.T. -0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

Tgt Ion: 97 Resp: 36584  
Ion Ratio Lower Upper  
97 100  
99 65.2 51.3 76.9  
61 43.7 34.8 52.2





#31

Carbon tetrachloride

Concen: 5.114 ug/L

RT: 4.87 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

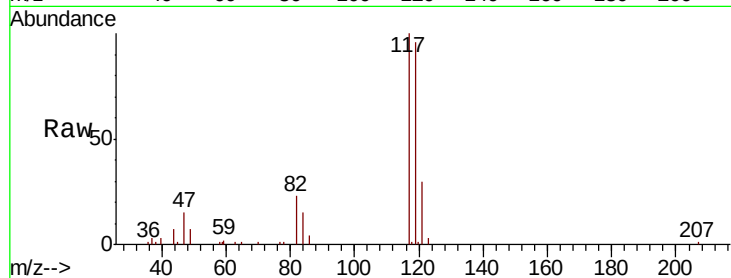
ClientSampled :

Tot Ion:117 Resp: 31129

Ion Ratio Lower Upper

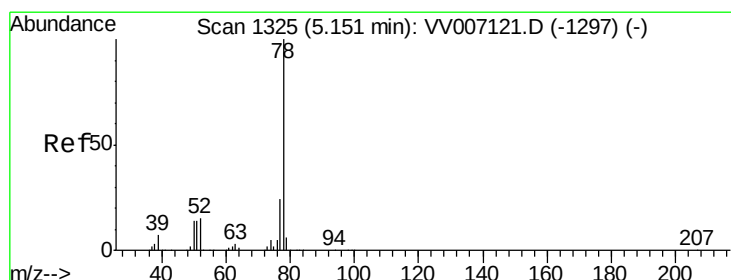
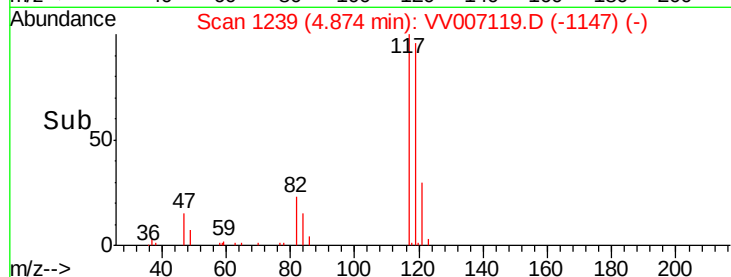
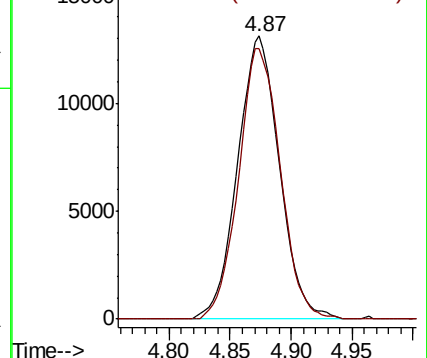
117 100

119 95.1 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 5.375 ug/L

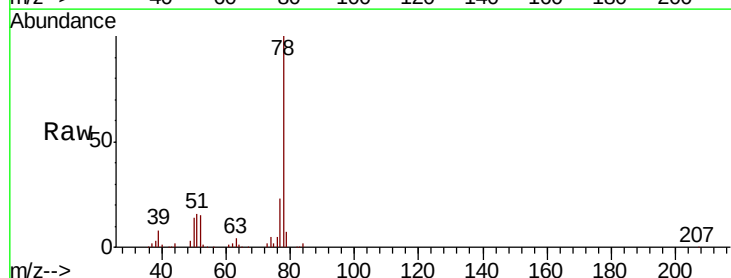
RT: 5.15 min Scan# 1324

Delta R.T. -0.00 min

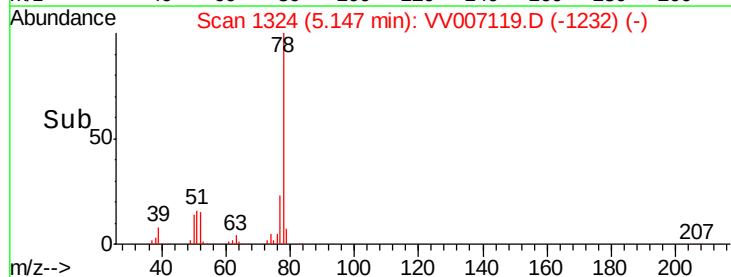
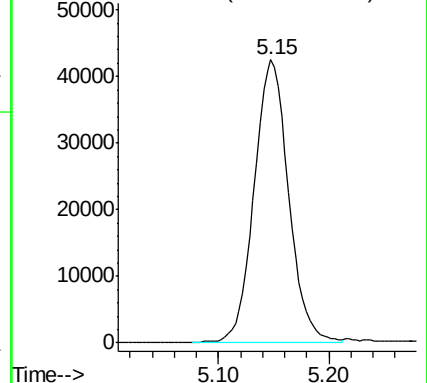
Lab File: VV007119.D

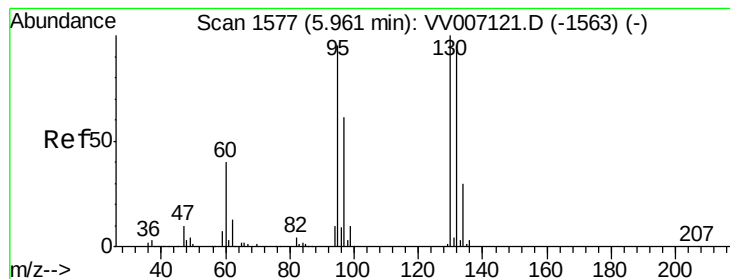
Acq: 22 Aug 2018 14:07

Tgt Ion: 78 Resp: 92572



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 5.638 ug/L

RT: 5.96 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 24749

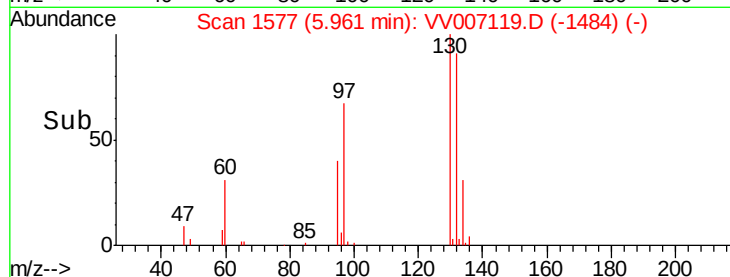
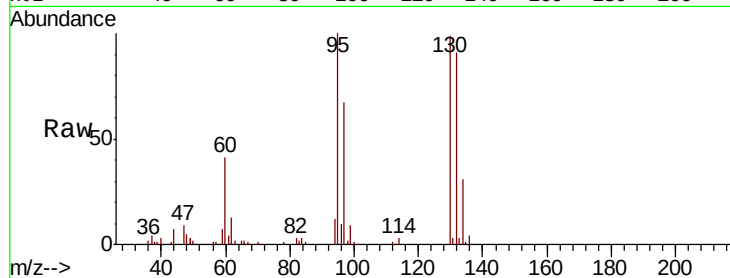
Ion Ratio Lower Upper

95 100

97 66.9 45.1 83.9

132 90.7 69.7 129.4

130 99.4 73.6 136.6

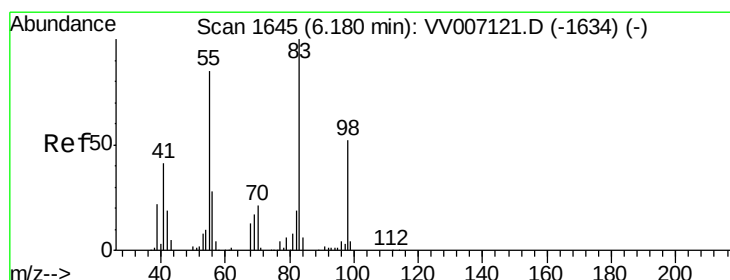
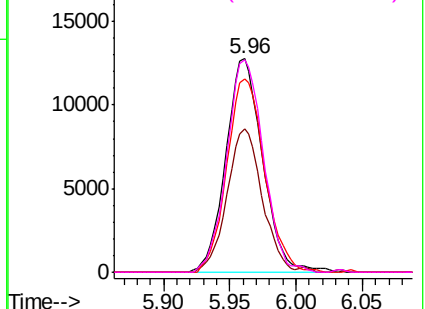


Abundance Ion 95.00 (94.70 to 95.70): VV007119.D (-1484) (-)

Ion 97.00 (96.70 to 97.70): VV007119.D (-1484) (-)

Ion 132.00 (131.70 to 132.70): VV007119.D (-1484) (-)

Ion 130.00 (129.70 to 130.70): VV007119.D (-1484) (-)



#35

Methylcyclohexane

Concen: 4.701 ug/L

RT: 6.17 min Scan# 1643

Delta R.T. -0.01 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

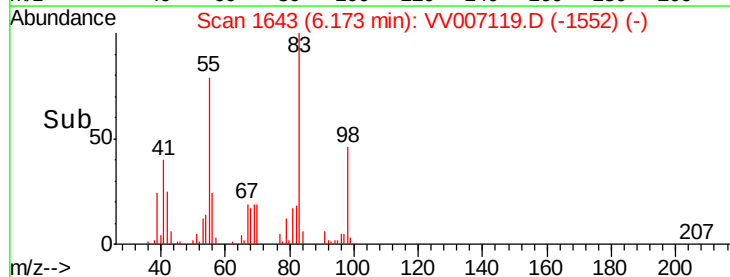
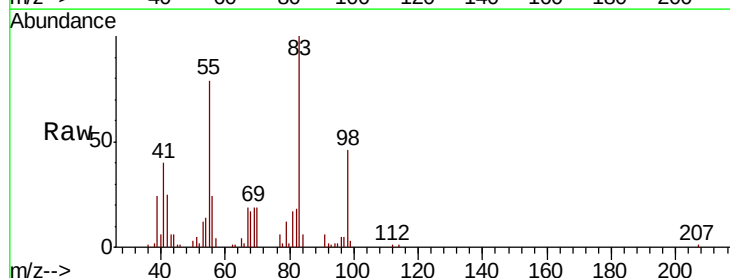
Tgt Ion: 83 Resp: 31304

Ion Ratio Lower Upper

83 100

55 80.9 65.5 98.3

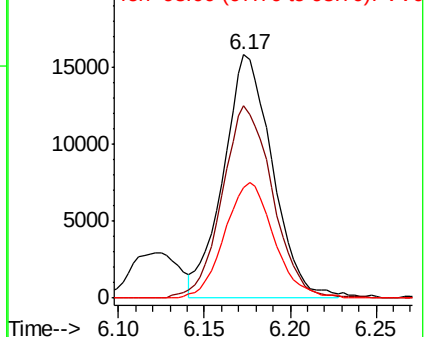
98 47.5 39.2 58.8



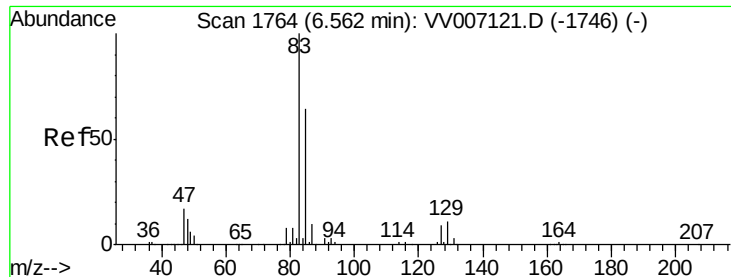
Abundance Ion 83.00 (82.70 to 83.70): VV007119.D (-1552) (-)

Ion 55.00 (54.70 to 55.70): VV007119.D (-1552) (-)

Ion 98.00 (97.70 to 98.70): VV007119.D (-1552) (-)



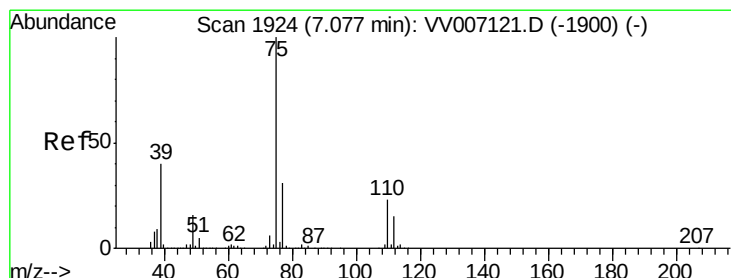
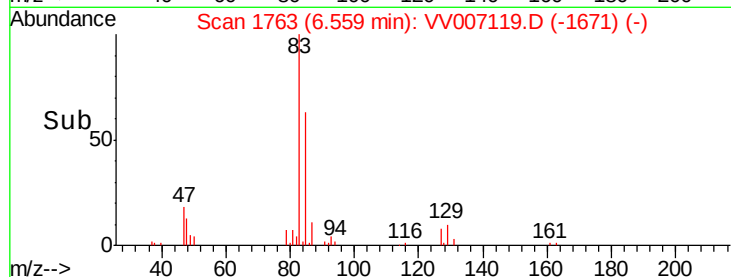
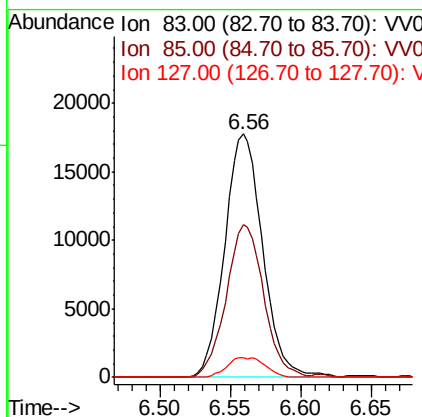
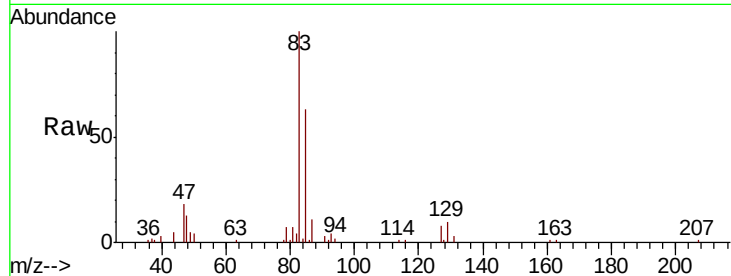




#38  
 Bromodichloromethane  
 Concen: 5.632 ug/L  
 RT: 6.56 min Scan# 1763  
 Delta R.T. -0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

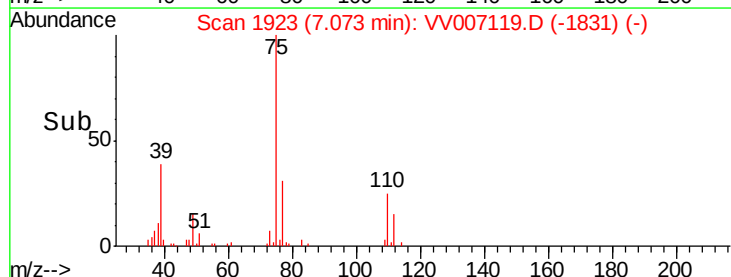
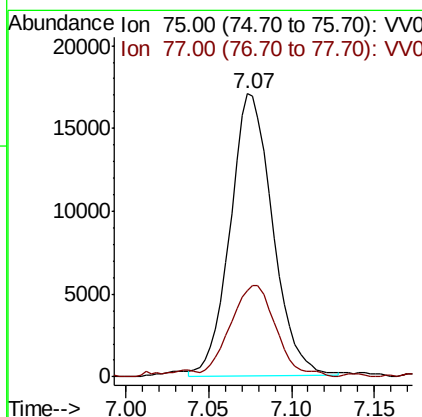
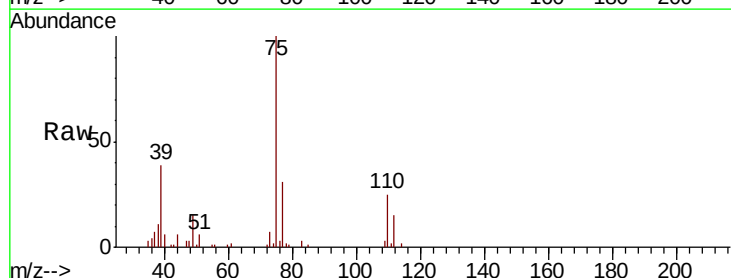
Instrument :  
 MSVOA\_V  
 ClientSampled :

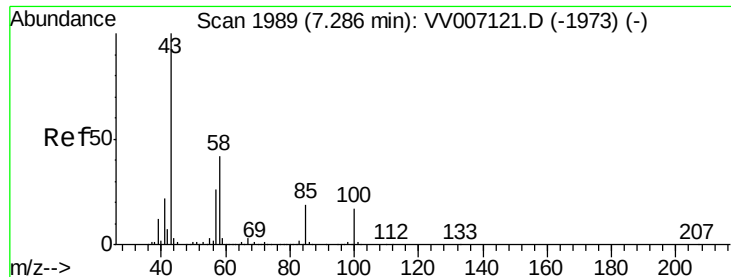
Tot Ion: 83 Resp: 33409  
 Ion Ratio Lower Upper  
 83 100  
 85 62.7 44.9 83.3  
 127 8.0 7.0 10.4



#39  
 cis-1,3-Dichloropropene  
 Concen: 4.579 ug/L  
 RT: 7.07 min Scan# 1923  
 Delta R.T. -0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

Tgt Ion: 75 Resp: 30298  
 Ion Ratio Lower Upper  
 75 100  
 77 30.5 21.8 40.4

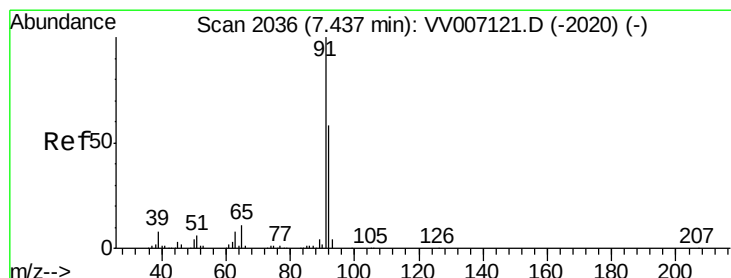
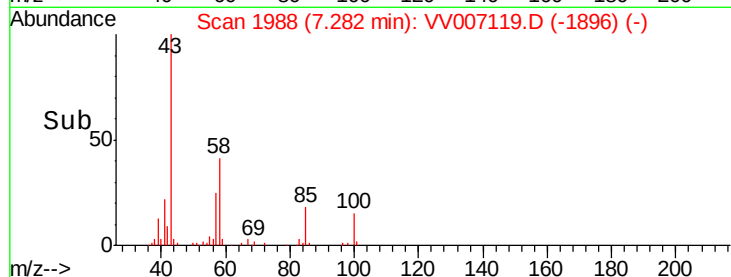
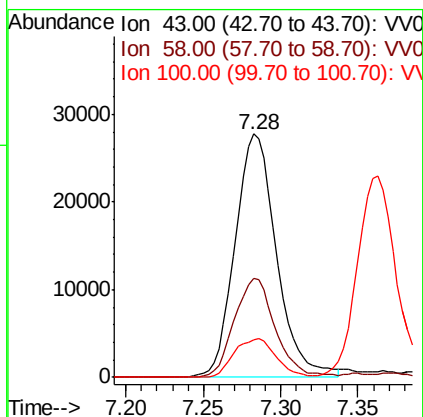
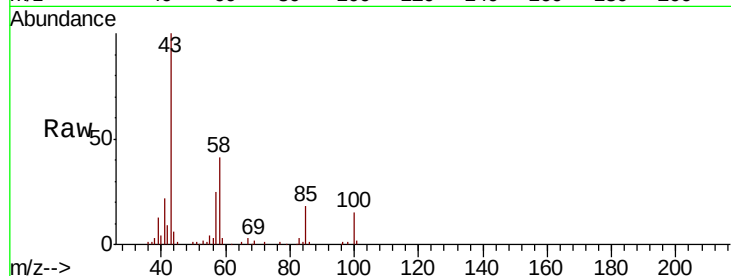




#40  
4-Methyl-2-pentanone  
Concen: 7.661 ug/L  
RT: 7.28 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

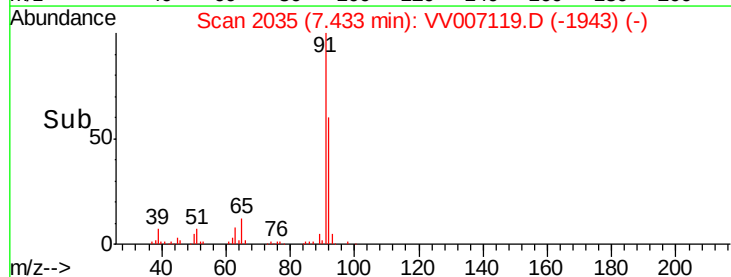
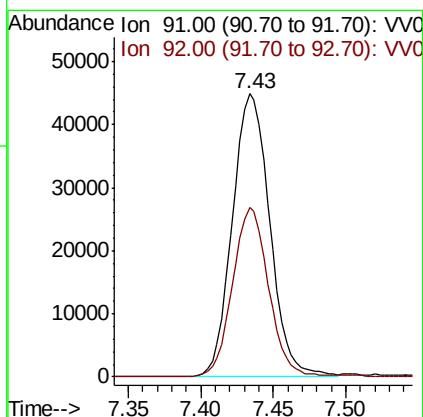
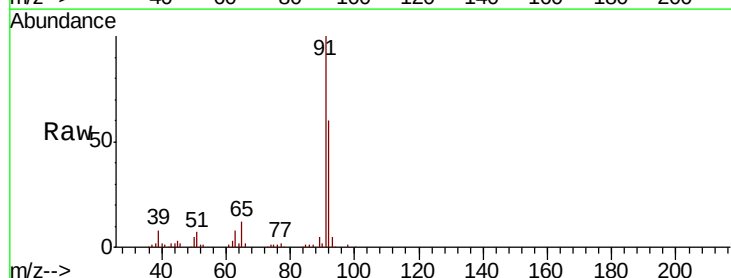
Instrument :  
MSVOA\_V  
ClientSampled :

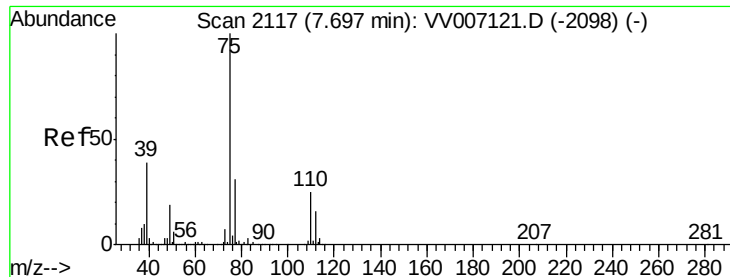
Tot Ion: 43 Resp: 51726  
Ion Ratio Lower Upper  
43 100  
58 40.2 33.4 50.0  
100 16.1 13.1 19.7



#42  
Toluene  
Concen: 4.418 ug/L  
RT: 7.43 min Scan# 2035  
Delta R.T. -0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

Tgt Ion: 91 Resp: 80791  
Ion Ratio Lower Upper  
91 100  
92 59.8 40.9 75.9





#44

trans-1,3-Dichloropropene

Concen: 4.621 ug/L

RT: 7.70 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

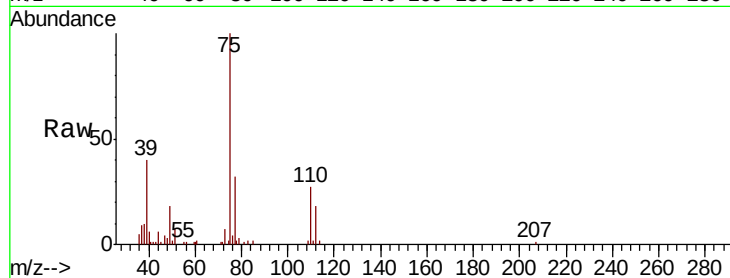
ClientSampleId :

Tot Ion: 75 Resp: 29514

Ion Ratio Lower Upper

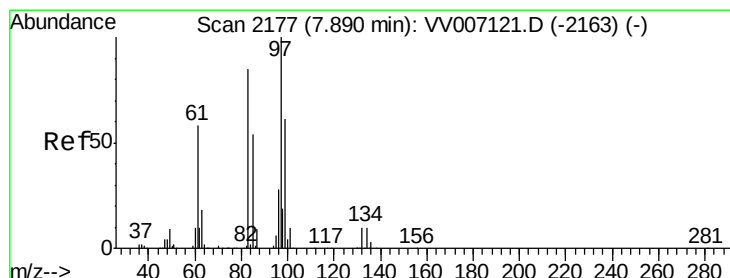
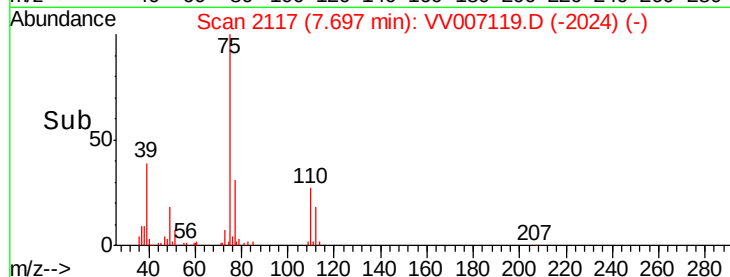
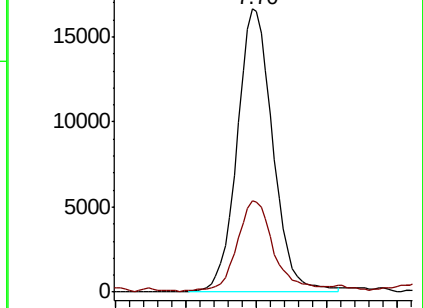
75 100

77 32.1 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV007119.D (-2098) (-)

Ion 77.00 (76.70 to 77.70): VV007119.D (-2098) (-)



#45

1,1,2-Trichloroethane

Concen: 5.435 ug/L

RT: 7.89 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Tgt Ion: 97 Resp: 24193

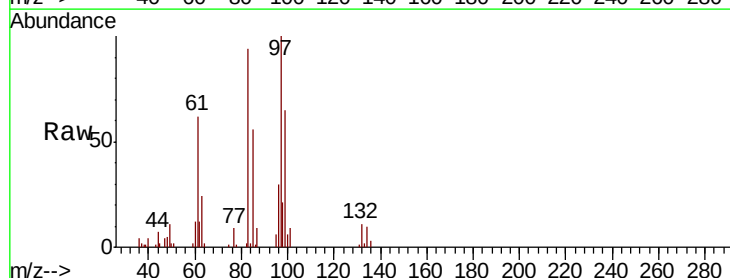
Ion Ratio Lower Upper

97 100

99 64.5 42.8 79.4

83 93.8 59.6 110.8

85 56.2 37.6 69.8

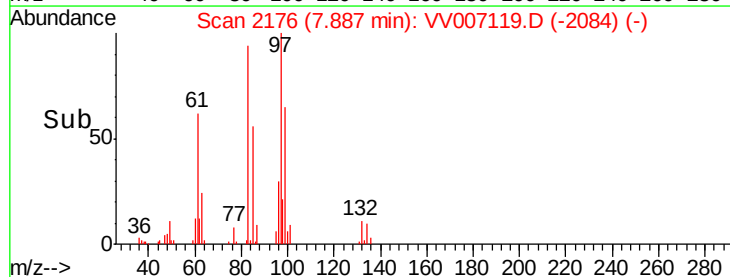
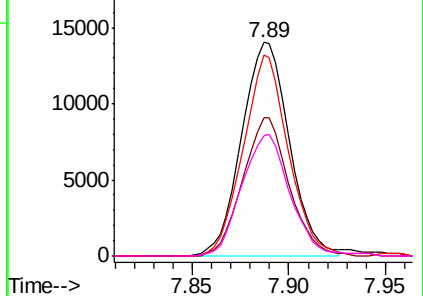


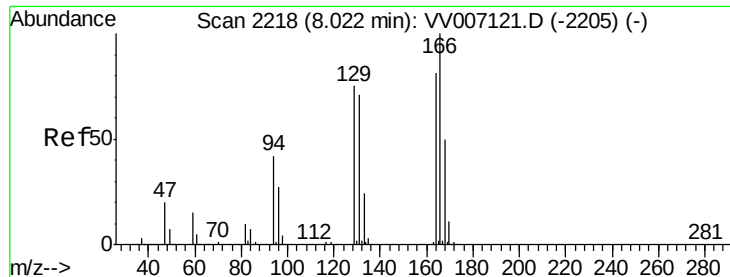
Abundance Ion 97.00 (96.70 to 97.70): VV007119.D (-2098) (-)

Ion 99.00 (98.70 to 99.70): VV007119.D (-2098) (-)

Ion 83.00 (82.70 to 83.70): VV007119.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV007119.D (-2098) (-)





#46

Tetrachloroethene

Concen: 5.774 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 19870

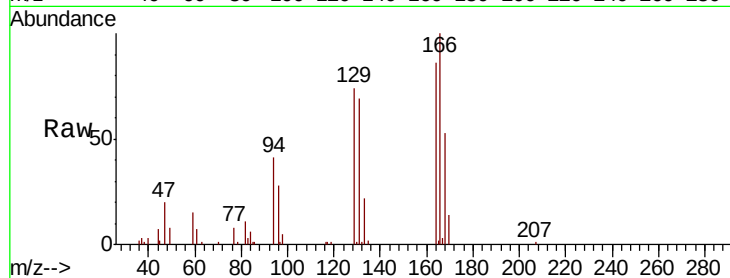
Ion Ratio Lower Upper

164 100

129 86.3 64.5 119.9

131 80.2 61.7 114.7

166 116.4 86.5 160.6



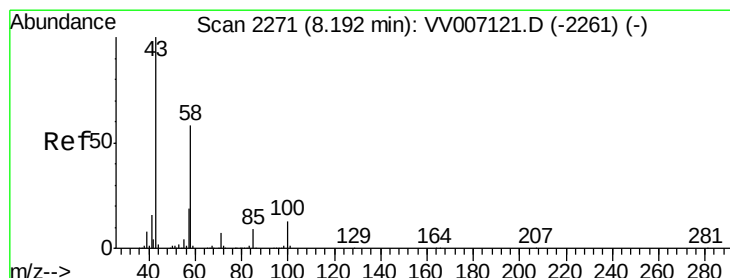
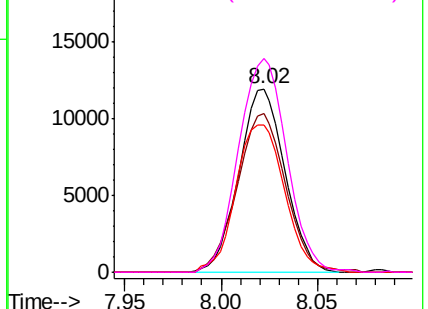
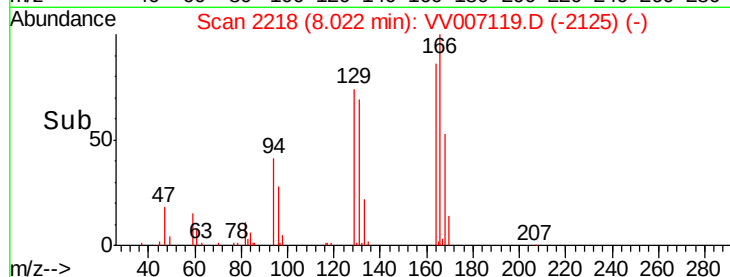
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 8.038 ug/L

RT: 8.19 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Tgt Ion: 43 Resp: 44848

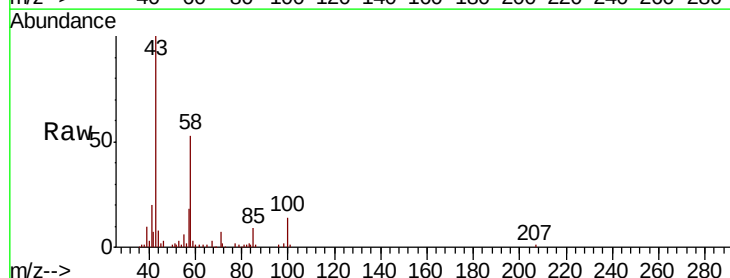
Ion Ratio Lower Upper

43 100

58 53.0 47.9 71.9

57 17.0 15.8 23.8

100 12.7 10.6 16.0



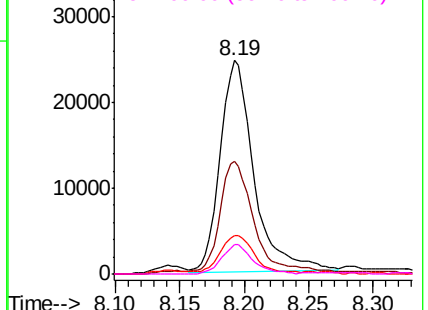
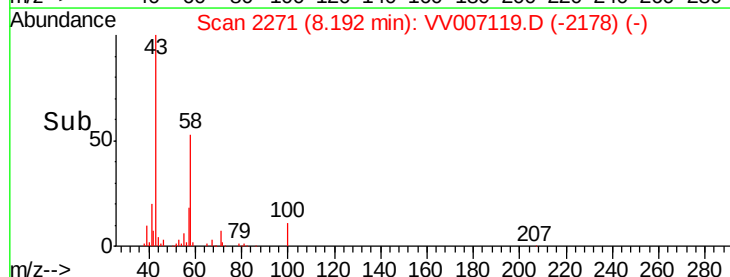
Abundance

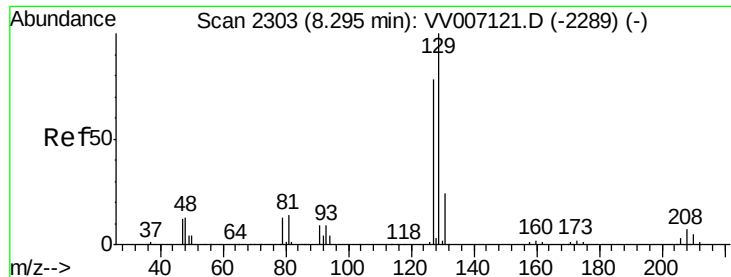
Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 5.274 ug/L

RT: 8.30 min Scan# 2303

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

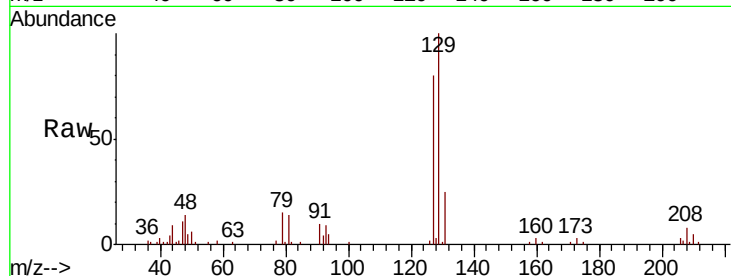
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:129 Resp: 24066

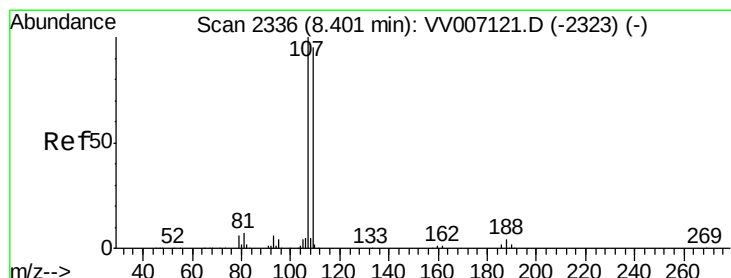
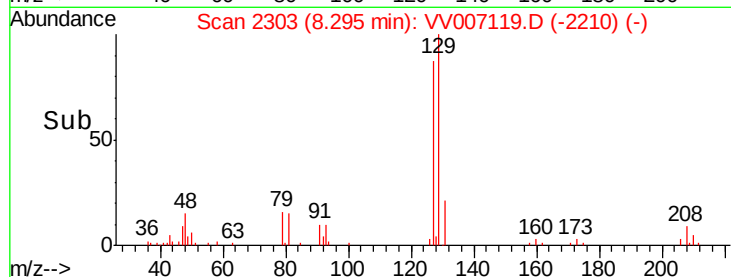
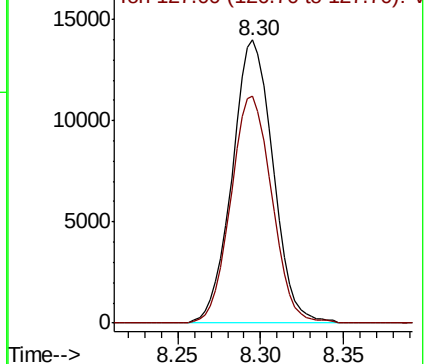
Ion Ratio Lower Upper

129 100

127 80.4 54.3 100.8



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 4.904 ug/L

RT: 8.40 min Scan# 2336

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

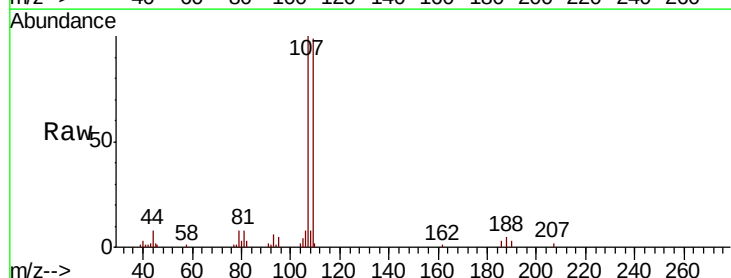
Tgt Ion:107 Resp: 22588

Ion Ratio Lower Upper

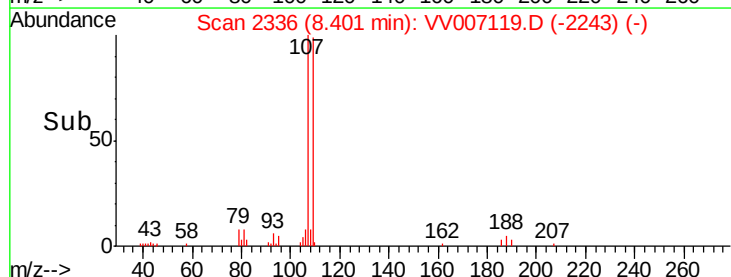
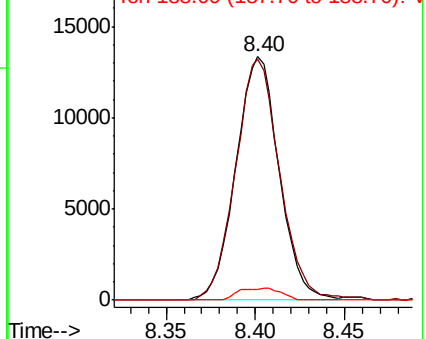
107 100

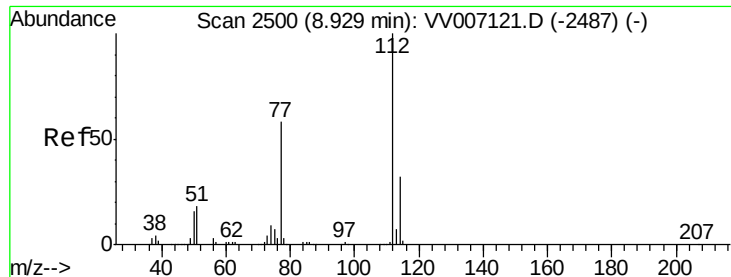
109 98.9 66.5 123.5

188 4.6 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

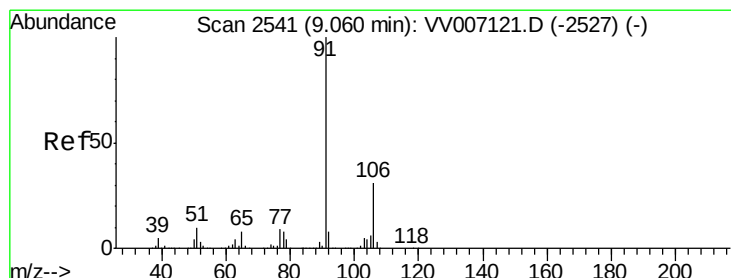
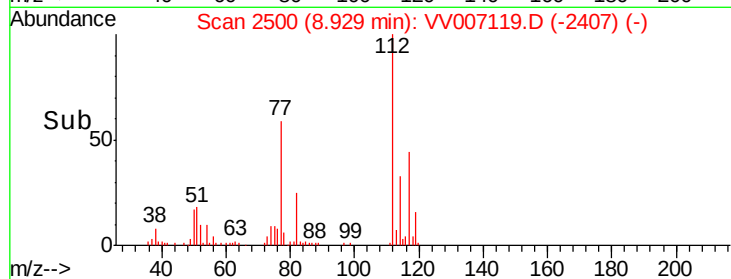
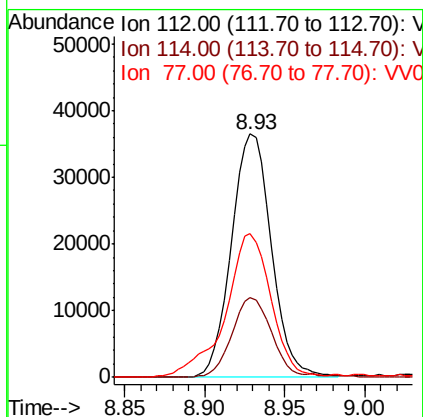
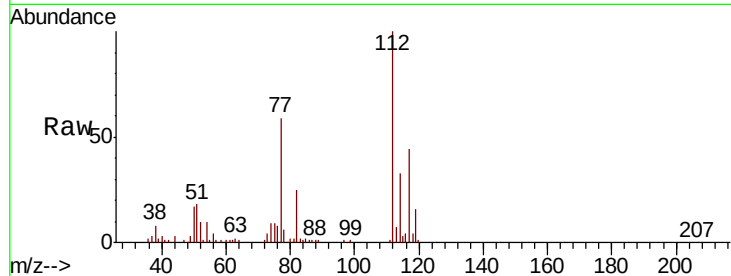




#51  
Chlorobenzene  
Concen: 5.119 ug/L  
RT: 8.93 min Scan# 2500  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

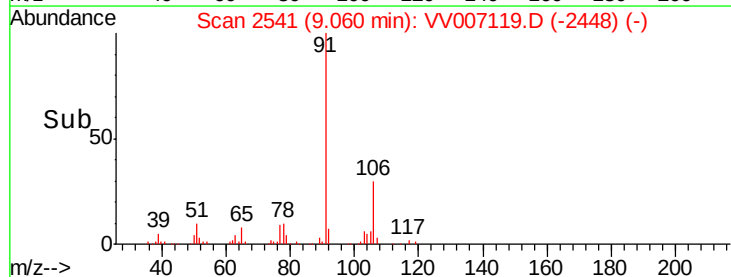
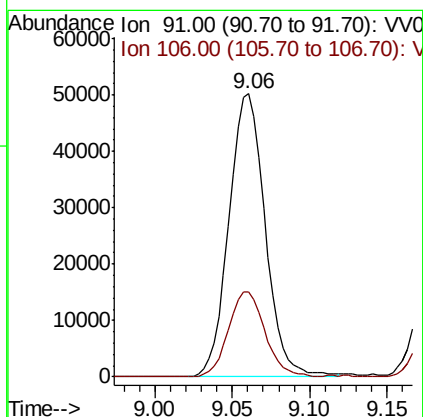
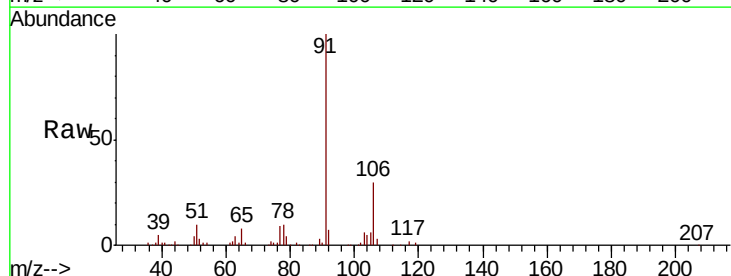
Instrument :  
MSVOA\_V  
ClientSampleId :

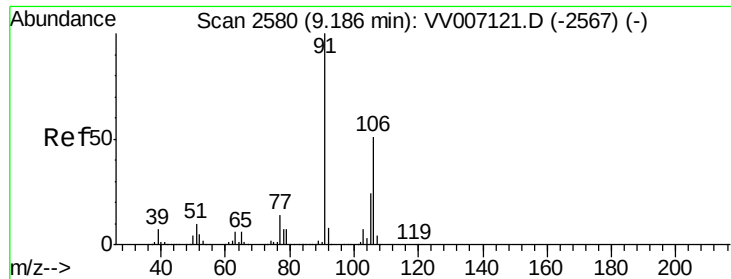
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.9  | 22.3  | 41.3  |
| 77      | 59.1  | 46.6  | 70.0  |



#52  
Ethylbenzene  
Concen: 4.054 ug/L  
RT: 9.06 min Scan# 2541  
Delta R.T. 0.00 min  
Lab File: VV007119.D  
Acq: 22 Aug 2018 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.1  | 21.4  | 39.8  |





#53

m,p-Xylene

Concen: 4.143 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

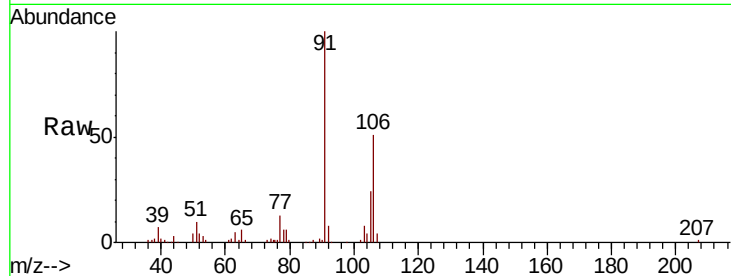
ClientSampleId :

Tot Ion:106 Resp: 30822

Ion Ratio Lower Upper

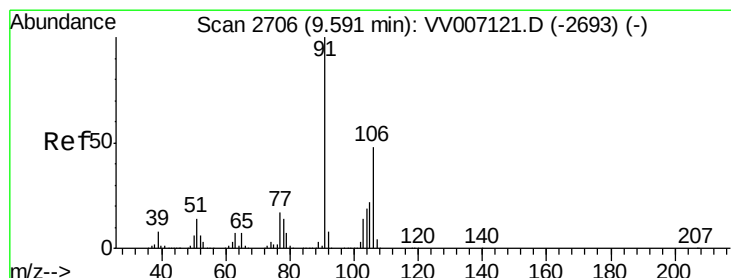
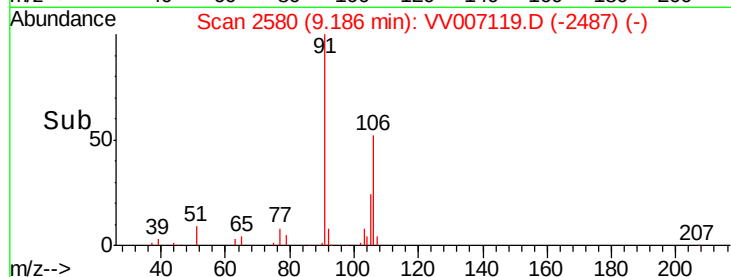
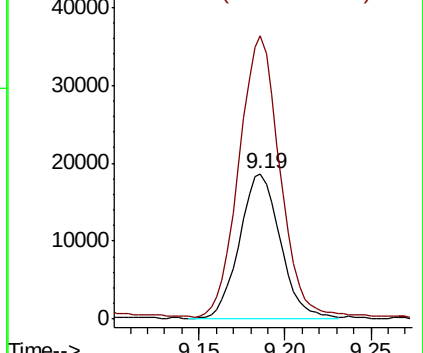
106 100

91 194.8 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 3.642 ug/L

RT: 9.59 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VV007119.D

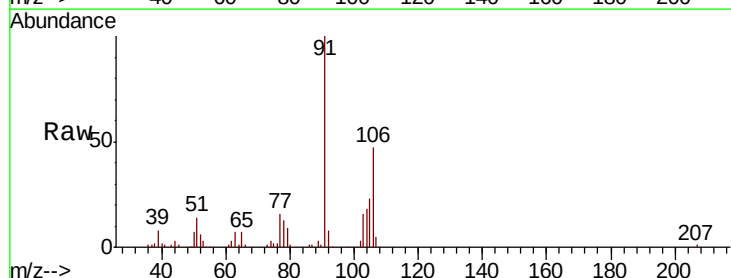
Acq: 22 Aug 2018 14:07

Tgt Ion:106 Resp: 27189

Ion Ratio Lower Upper

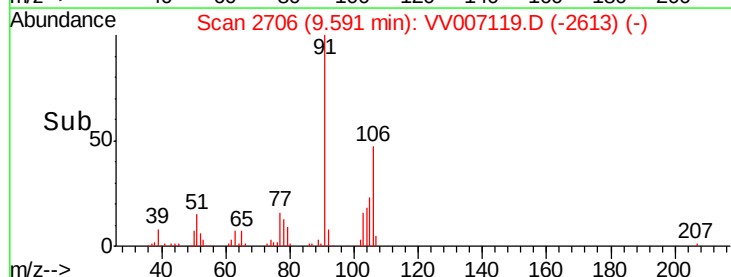
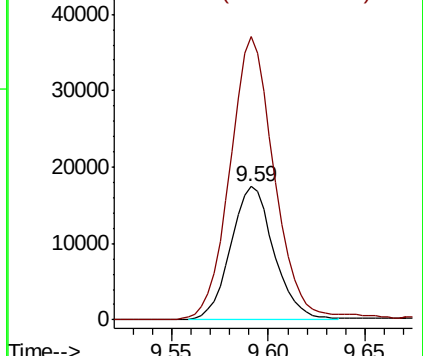
106 100

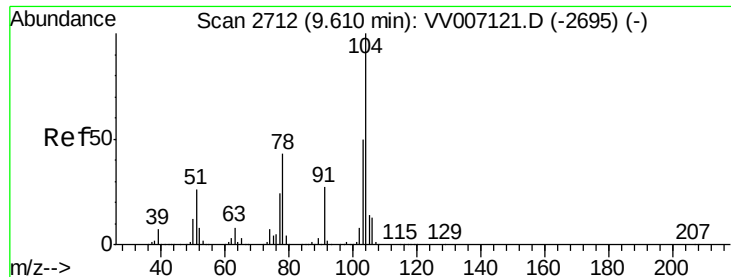
91 212.7 146.3 271.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 3.413 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

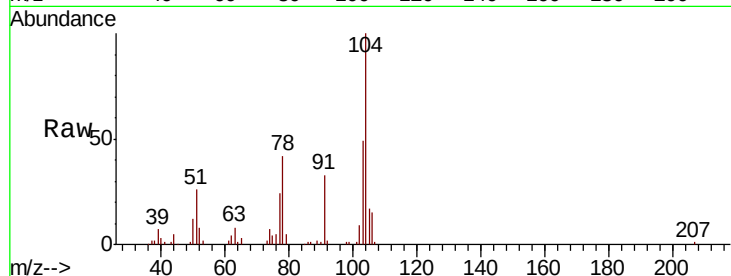
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:104 Resp: 43931

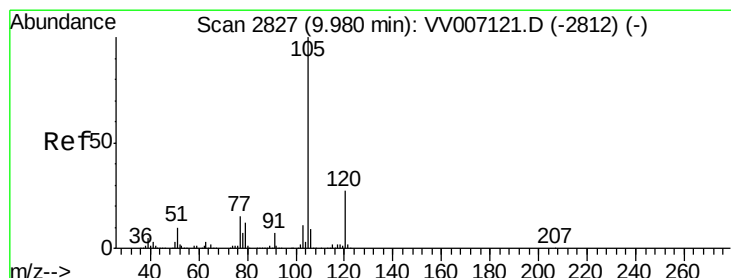
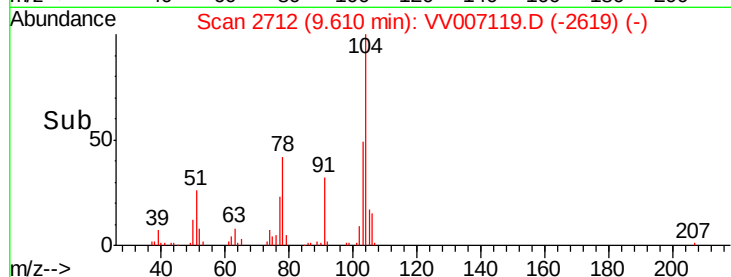
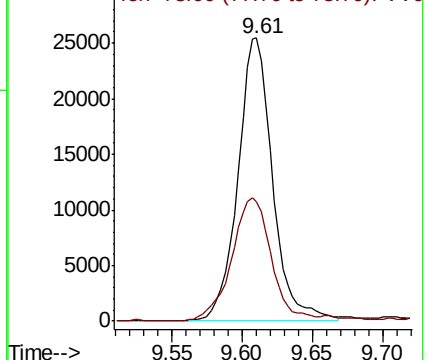
Ion Ratio Lower Upper

104 100

78 42.3 30.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 3.451 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

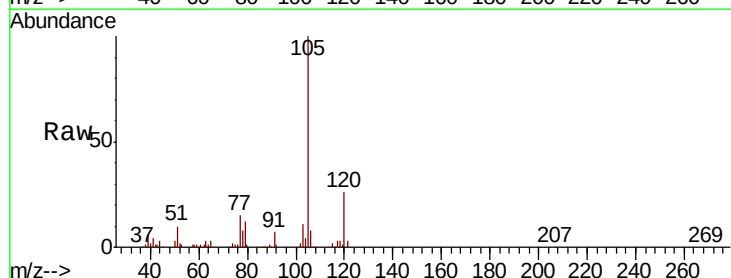
Tgt Ion:105 Resp: 68696

Ion Ratio Lower Upper

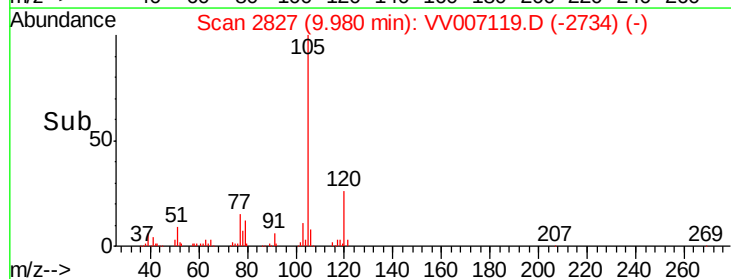
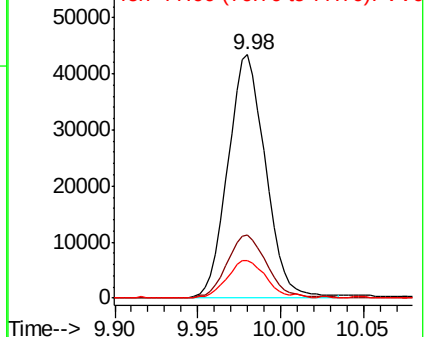
105 100

120 27.1 21.0 31.4

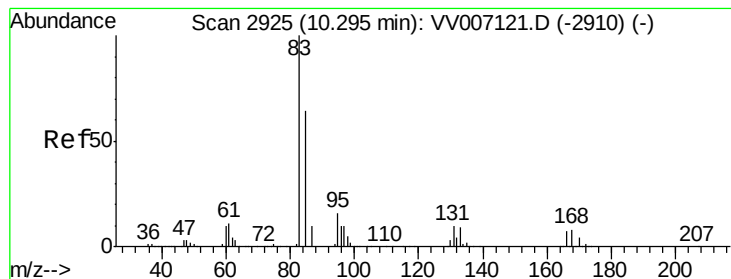
77 15.2 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V  
Ion 77.00 (76.70 to 77.70): VV0







#58

1,1,2,2-Tetrachloroethane

Concen: 5.333 ug/L

RT: 10.30 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :

MSVOA\_V

ClientSampleId :

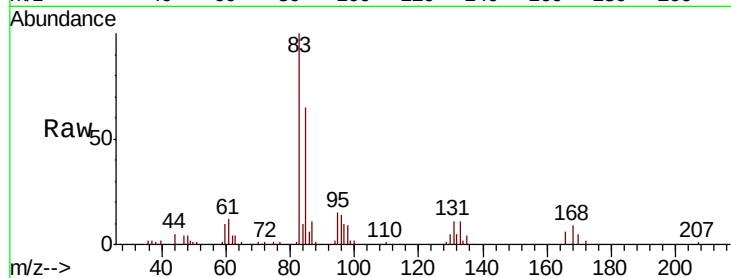
Tot Ion: 83 Resp: 40806

Ion Ratio Lower Upper

83 100

85 65.2 45.2 84.0

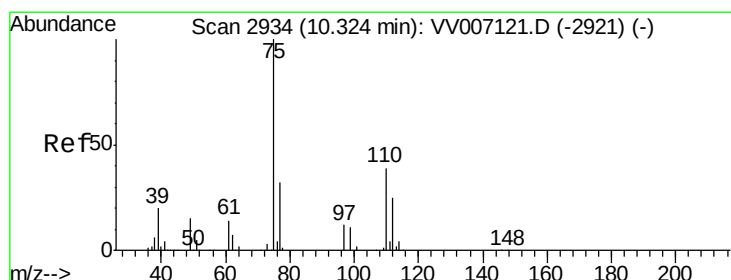
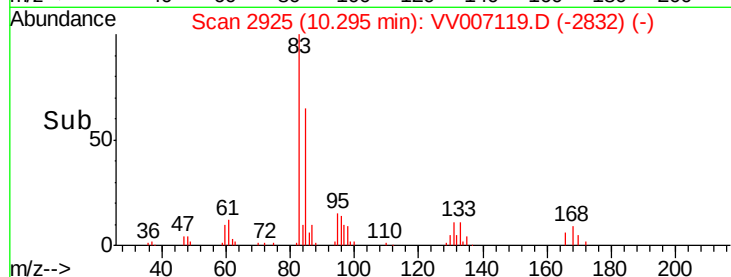
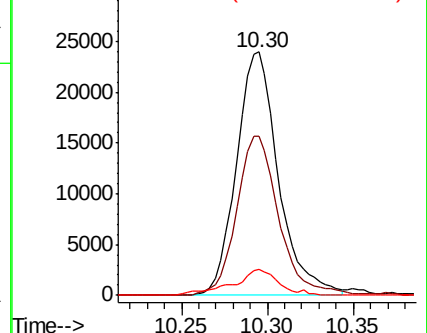
131 10.6 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VV007119.D (-2832) (-)

Ion 85.00 (84.70 to 85.70): VV007119.D (-2832) (-)

Ion 131.00 (130.70 to 131.70): VV007119.D (-2832) (-)



#59

1,2,3-Trichloropropane

Concen: 5.315 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VV007119.D

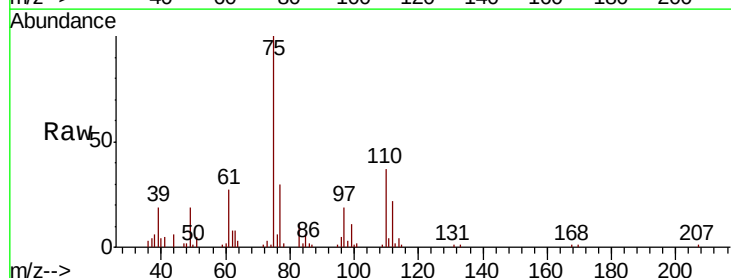
Acq: 22 Aug 2018 14:07

Tgt Ion: 75 Resp: 32907

Ion Ratio Lower Upper

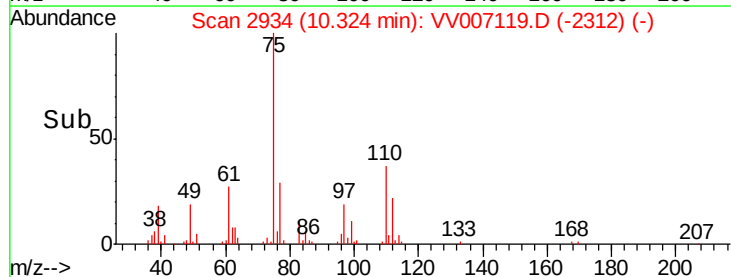
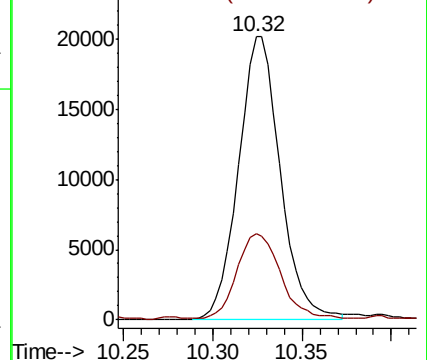
75 100

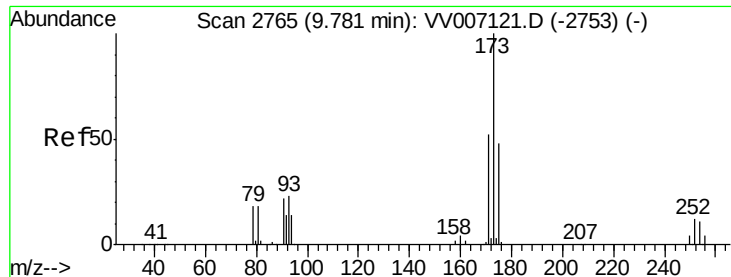
77 30.4 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV007119.D (-2312) (-)

Ion 77.00 (76.70 to 77.70): VV007119.D (-2312) (-)





#61

Bromoform

Concen: 6.753 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. 0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

Instrument :  
MSVOA\_V  
ClientSampled :

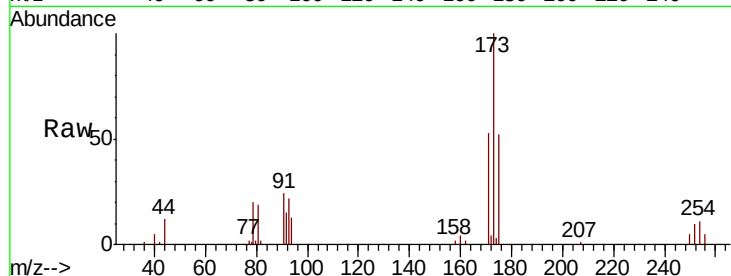
Tot Ion:173 Resp: 17078

Ion Ratio Lower Upper

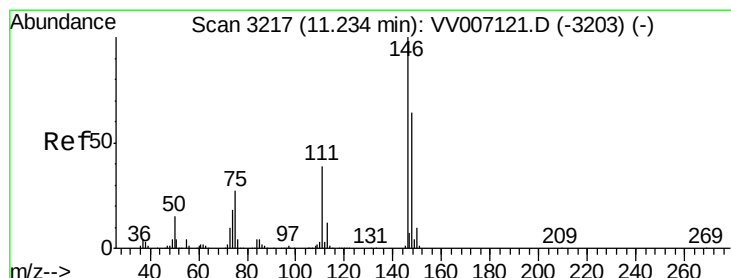
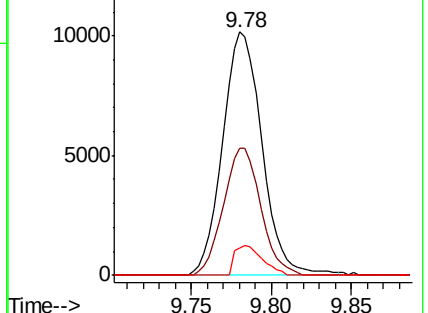
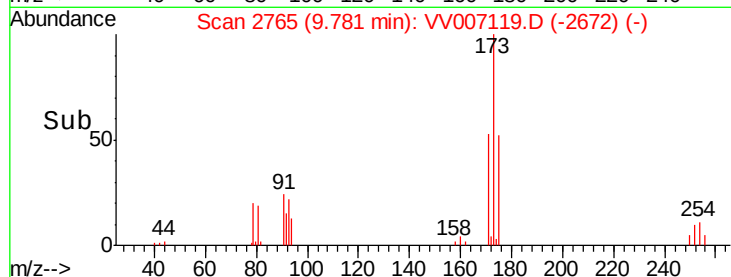
173 100

175 49.4 37.9 56.9

254 8.6 9.2 13.8#



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 4.994 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VV007119.D

Acq: 22 Aug 2018 14:07

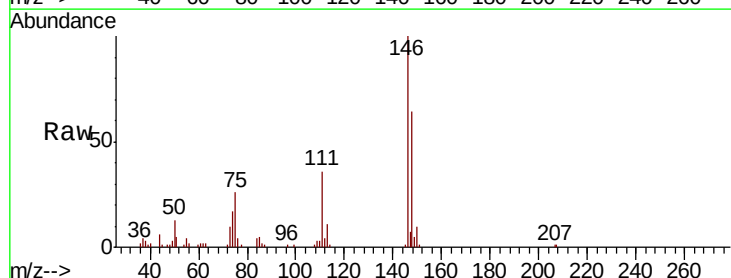
Tgt Ion:146 Resp: 36683

Ion Ratio Lower Upper

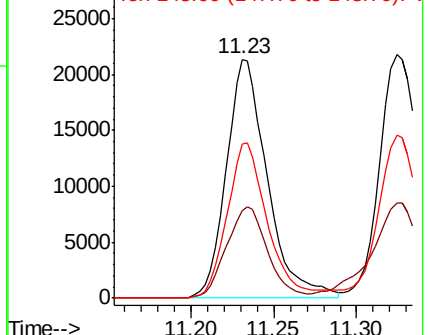
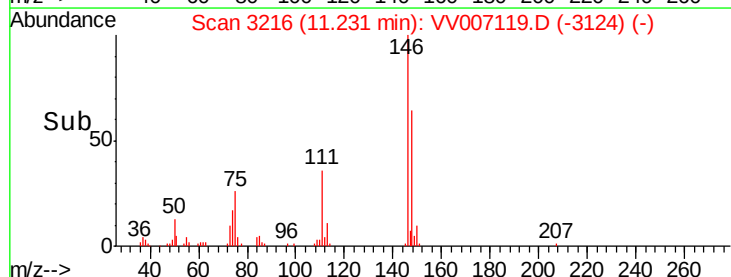
146 100

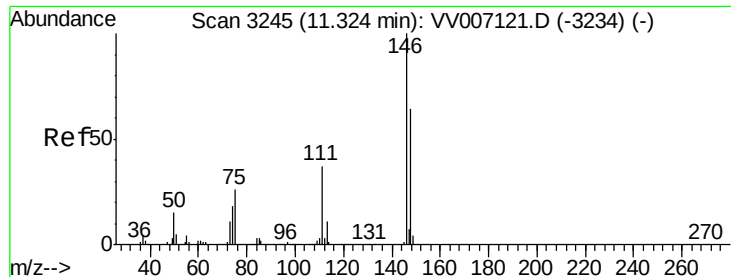
111 36.4 27.1 50.3

148 64.2 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

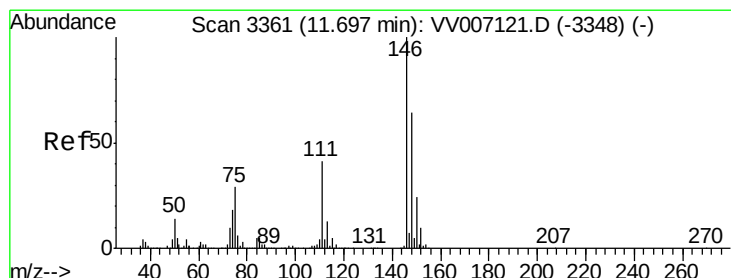
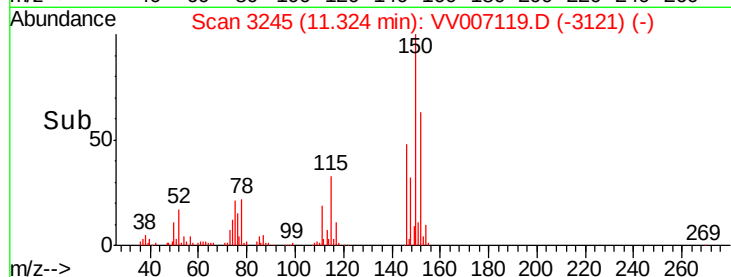
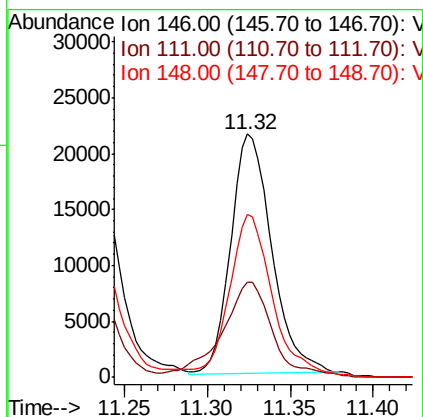
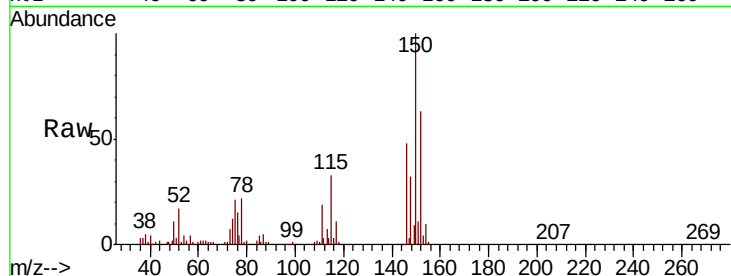




#63  
 1,4-Dichlorobenzene  
 Concen: 4.667 ug/L  
 RT: 11.32 min Scan# 3245  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

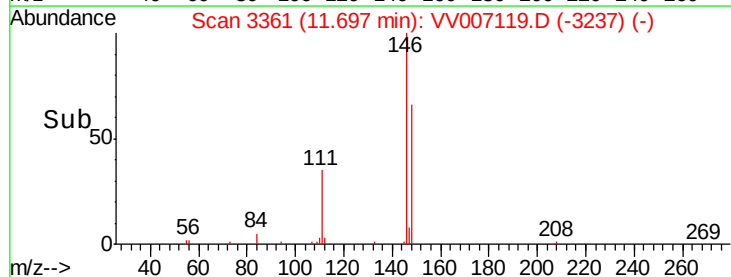
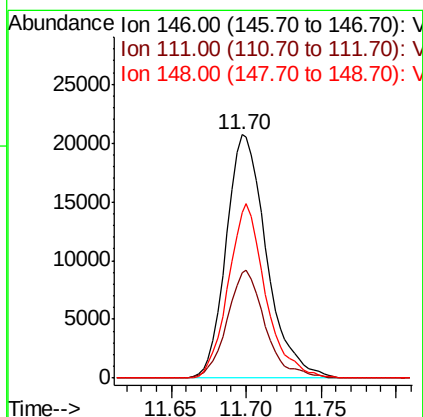
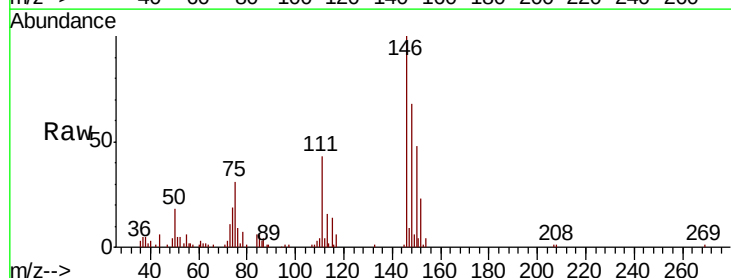
Instrument :  
 MSVOA\_V  
 ClientSampled :

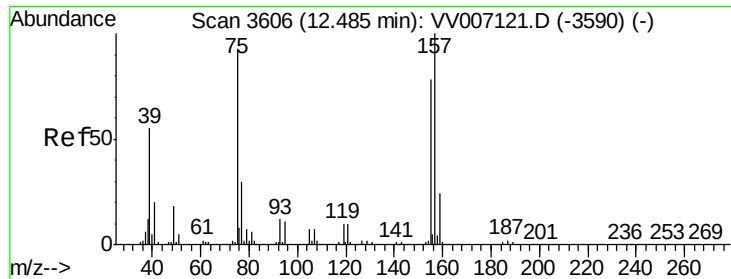
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.2  | 26.2  | 48.6  |
| 148     | 67.2  | 44.7  | 82.9  |



#65  
 1,2-Dichlorobenzene  
 Concen: 4.882 ug/L  
 RT: 11.70 min Scan# 3361  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.0  | 32.5  | 48.7  |
| 148     | 68.1  | 50.8  | 76.2  |

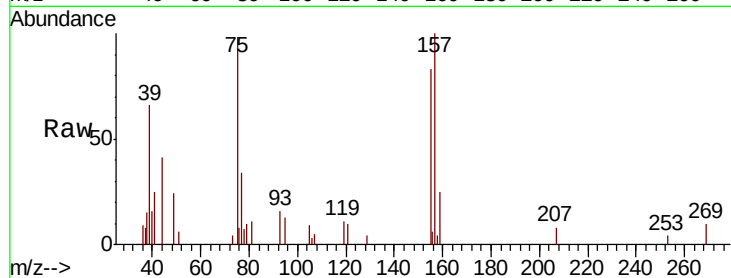




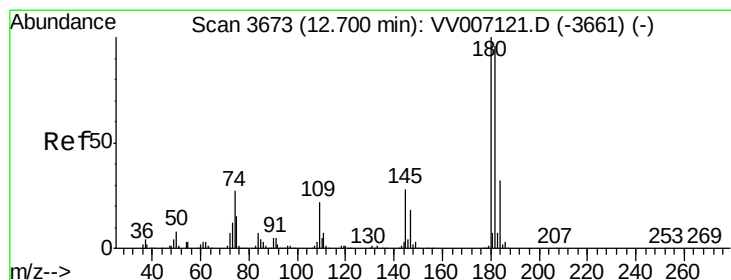
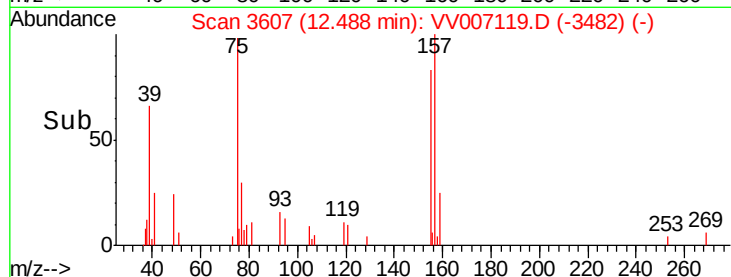
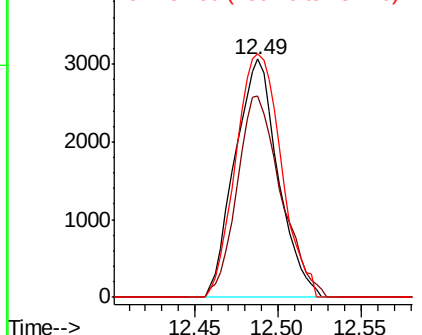
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.405 ug/L  
 RT: 12.49 min Scan# 3607  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 75 Resp: 5520  
 Ion Ratio Lower Upper  
 75 100  
 155 84.4 66.8 100.2  
 157 102.2 85.8 128.8

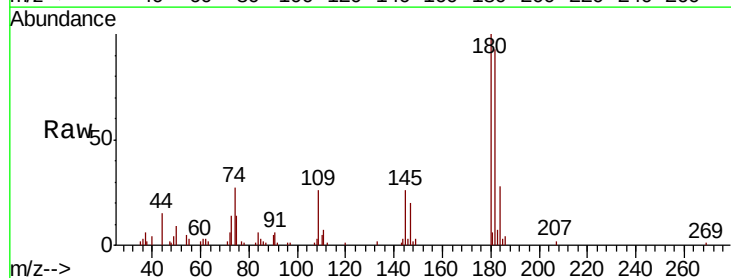


Abundance Ion 75.00 (74.70 to 75.70): VV007121.D (-3590) (-)  
 Ion 155.00 (154.70 to 155.70): VV007121.D (-3590) (-)  
 Ion 157.00 (156.70 to 157.70): VV007121.D (-3590) (-)

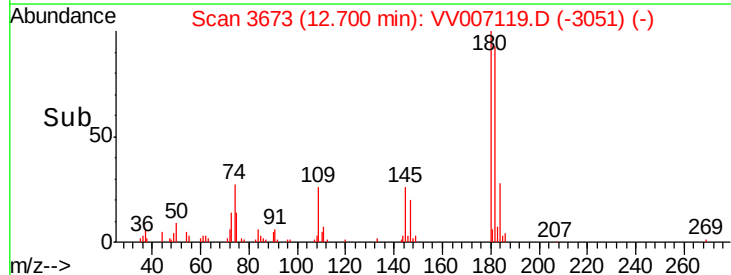
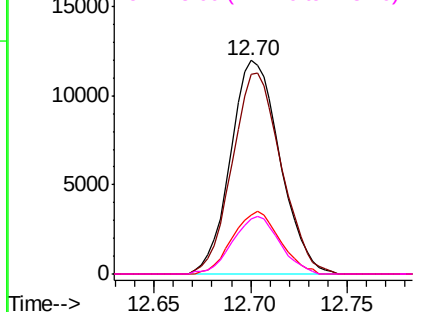


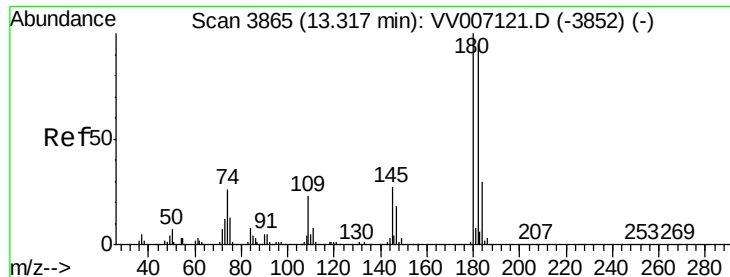
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.032 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

Tgt Ion: 180 Resp: 21192  
 Ion Ratio Lower Upper  
 180 100  
 182 93.6 76.4 114.6  
 184 28.2 24.6 37.0  
 145 25.6 22.6 33.8



Abundance Ion 180.00 (179.70 to 180.70): VV007121.D (-3661) (-)  
 Ion 182.00 (181.70 to 182.70): VV007121.D (-3661) (-)  
 Ion 184.00 (183.70 to 184.70): VV007121.D (-3661) (-)  
 Ion 145.00 (144.70 to 145.70): VV007121.D (-3661) (-)

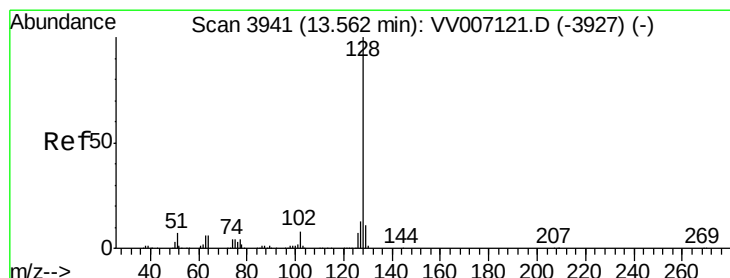
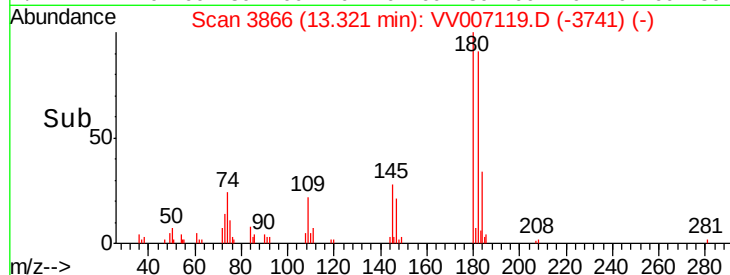
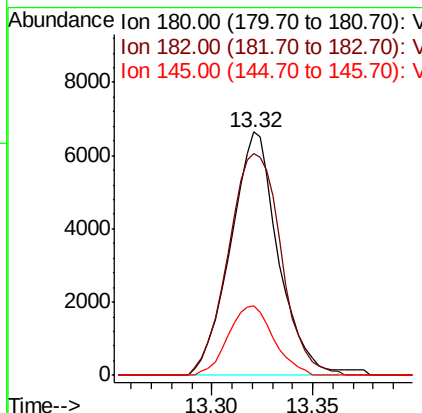
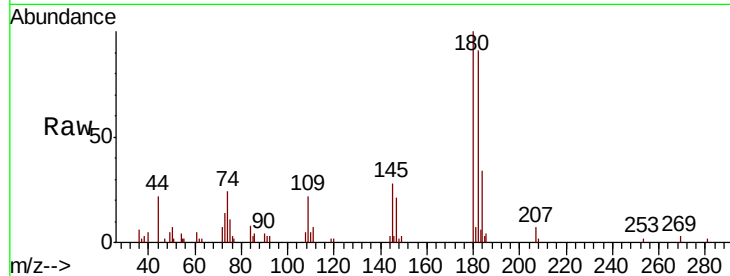




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.592 ug/L  
 RT: 13.32 min Scan# 3866  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

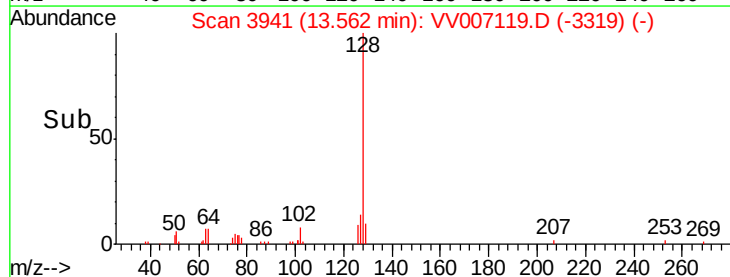
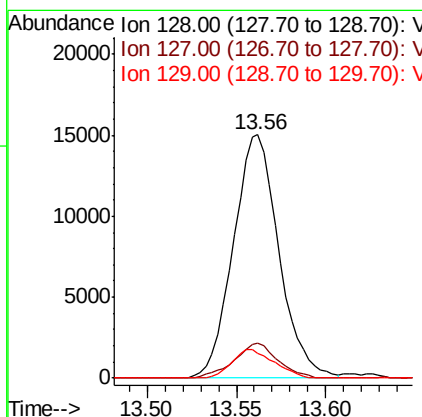
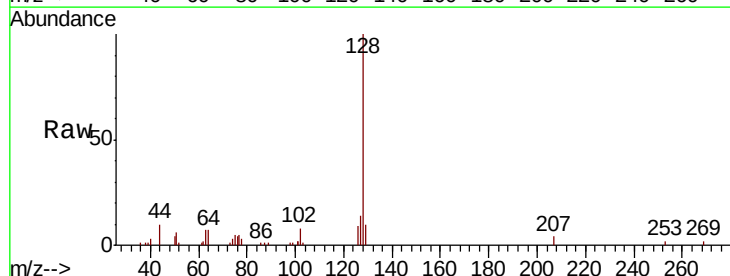
Instrument :  
 MSVOA\_V  
 ClientSampleId :

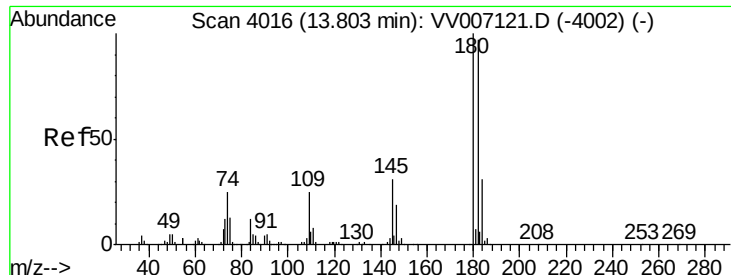
| Tot Ion   | 180   | Resp  | 10950 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 180       | 100   |       |       |
| 182       | 101.5 | 77.0  | 115.6 |
| 145       | 27.3  | 22.7  | 34.1  |



#69  
 Naphthalene  
 Concen: 2.064 ug/L  
 RT: 13.56 min Scan# 3941  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

| Tgt Ion   | 128  | Resp  | 26729 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 100  |       |       |
| 127       | 13.7 | 10.5  | 15.7  |
| 129       | 10.8 | 8.7   | 13.1  |





#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.428 ug/L  
 RT: 13.80 min Scan# 4016  
 Delta R.T. 0.00 min  
 Lab File: VV007119.D  
 Acq: 22 Aug 2018 14:07

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.0  | 76.2  | 114.2 |
| 145     | 34.6  | 24.2  | 36.4  |

