

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV080319\  
 Data File : VV012099.D  
 Acq On : 03 Aug 2019 09:37  
 Operator : SY/MD  
 Sample : VSTD2.561  
 Misc : 5gm/10ml/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

Quant Time: Aug 05 07:47:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM080319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Aug 05 07:43:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 200024   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 185312   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 102035   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 4019  | 1.57 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 2874  | 1.48 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 8250  | 1.59 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.97  | 46  | 2319  | 2.36 | ug/L | 0.03 |
| 24) Chloroform-d               | 4.40  | 84  | 11177 | 2.29 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 6595  | 2.09 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 20741 | 2.11 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 5569  | 1.81 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 20025 | 2.13 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 3006  | 2.05 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.14  | 63  | 2680  | 3.61 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 5985  | 2.10 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 8526  | 2.24 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 9142  | 2.829 ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50  | 5796  | 2.007 ug/L   | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 5096  | 1.762 ug/L   | 92     |
| 6) Bromomethane                | 1.53 | 94  | 3038  | 1.894 ug/L   | 85     |
| 8) Chloroethane                | 1.60 | 64  | 2889  | 1.733 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 9750  | 2.251 ug/L   | 95     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 4714  | 2.042 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 4048  | 1.912 ug/L   | 87     |
| 13) Acetone                    | 2.22 | 43  | 5704  | 4.902 ug/L   | 74     |
| 14) Carbon disulfide           | 2.32 | 76  | 17551 | 2.460 ug/L   | 98     |
| 15) Methyl Acetate             | 2.47 | 43  | 3749  | 2.242 ug/L # | 88     |
| 16) Methylene chloride         | 2.53 | 84  | 6846  | 2.305 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 14994 | 1.972 ug/L   | 96     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 6126  | 2.265 ug/L   | 91     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 9856  | 1.945 ug/L   | 95     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 6548  | 2.187 ug/L   | 97     |
| 23) Bromochloromethane         | 4.30 | 128 | 3027  | 2.237 ug/L   | 89     |
| 25) Chloroform                 | 4.43 | 83  | 11956 | 2.180 ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 7969  | 2.050 ug/L   | 98     |
| 30) Cyclohexane                | 4.72 | 56  | 8929  | 1.908 ug/L   | 98     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 11109 | 2.589 ug/L   | 99     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 11449 | 3.071 ug/L   | 95     |
| 34) Benzene                    | 5.14 | 78  | 23122 | 2.176 ug/L   | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 6759  | 2.371 ug/L   | 95     |
| 36) Methylcyclohexane          | 6.17 | 83  | 10893 | 2.279 ug/L # | 86     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 5298  | 1.929 ug/L # | 92     |
| 41) Bromodichloromethane       | 6.56 | 83  | 8206  | 2.220 ug/L   | 95     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 9122  | 2.048 ug/L   | 99     |
| 43) 4-Methyl-2-pentanone       | 7.28 | 43  | 8501  | 3.390 ug/L   | 97     |
| 44) Toluene                    | 7.43 | 91  | 26493 | 2.262 ug/L   | 96     |

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 Acq On : 03 Aug 2019 09:37  
 Operator : SY/MD  
 Sample : VSTD2.561  
 Misc : 5gm/10ml/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

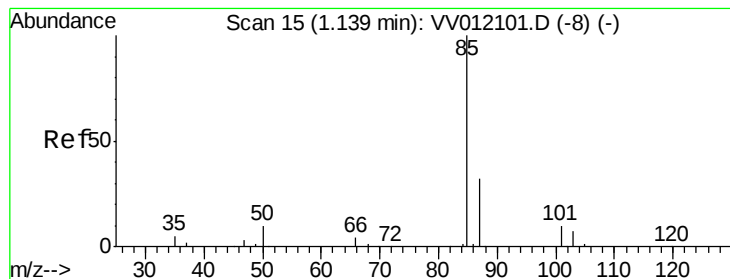
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

Quant Time: Aug 05 07:47:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM080319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Aug 05 07:43:09 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 7951     | 2.086 | ug/L   | 92       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 4946     | 2.228 | ug/L   | 95       |
| 47) Tetrachloroethene          | 8.02  | 164  | 6670     | 3.002 | ug/L   | 90       |
| 49) 2-Hexanone                 | 8.19  | 43   | 6231     | 3.379 | ug/L   | 99       |
| 50) Dibromochloromethane       | 8.29  | 129  | 6799     | 2.609 | ug/L   | 96       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 5049     | 2.297 | ug/L # | 97       |
| 52) Chlorobenzene              | 8.92  | 112  | 17766    | 2.342 | ug/L   | 94       |
| 53) Ethylbenzene               | 9.05  | 91   | 29435    | 2.194 | ug/L   | 98       |
| 54) m,p-Xylene                 | 9.18  | 106  | 11185    | 2.214 | ug/L   | 97       |
| 55) o-xylene                   | 9.59  | 106  | 10778    | 2.182 | ug/L   | 88       |
| 56) Styrene                    | 9.60  | 104  | 17917    | 2.158 | ug/L   | 96       |
| 57) Isopropylbenzene           | 9.97  | 105  | 29680    | 2.240 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 6292     | 2.100 | ug/L   | 92       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 4792     | 2.100 | ug/L   | 96       |
| 62) Bromoform                  | 9.77  | 173  | 4314     | 2.568 | ug/L   | 96       |
| 63) 1,3-Dichlorobenzene        | 11.22 | 146  | 15388    | 2.345 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 16403    | 2.468 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 13902    | 2.250 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 1552     | 2.476 | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 12848    | 2.561 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 9656     | 2.359 | ug/L   | 99       |
| 69) Naphthalene                | 13.55 | 128  | 15432    | 1.870 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 9063     | 2.377 | ug/L   | 98       |
| -----                          |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 2.829 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

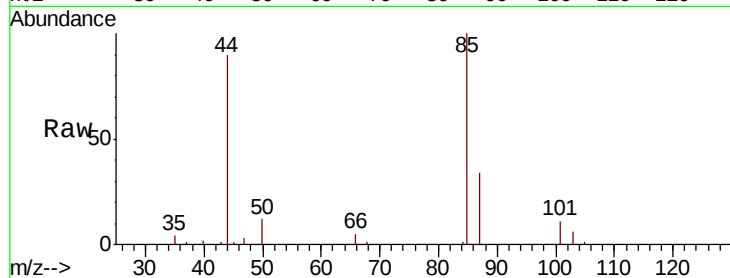
VSTD2.561

Tgt Ion: 85 Resp: 9142

Ion Ratio Lower Upper

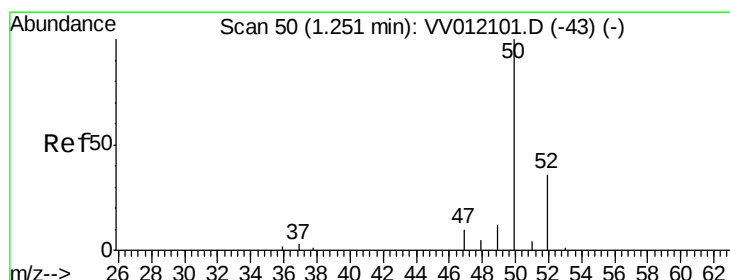
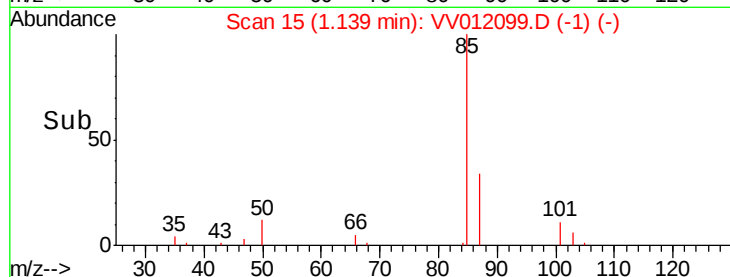
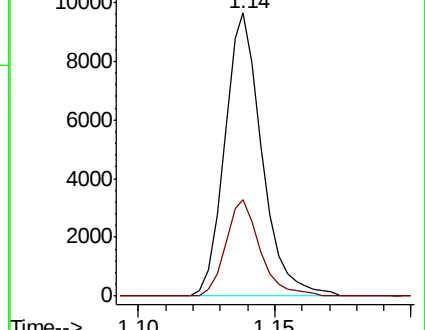
85 100

87 31.6 22.7 42.1



Abundance Ion 85.00 (84.70 to 85.70): VV012101.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012101.D (-8) (-)



#3

Chloromethane

Concen: 2.007 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012099.D

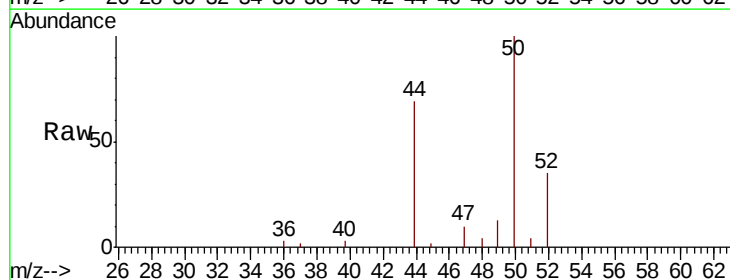
Acq: 03 Aug 2019 09:37

Tgt Ion: 50 Resp: 5796

Ion Ratio Lower Upper

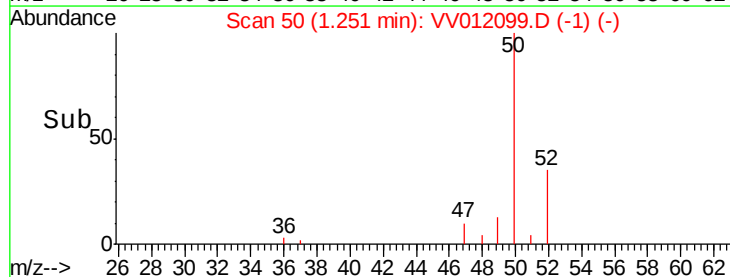
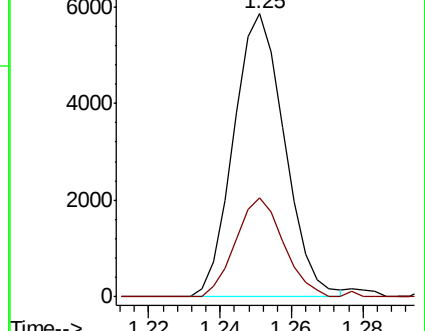
50 100

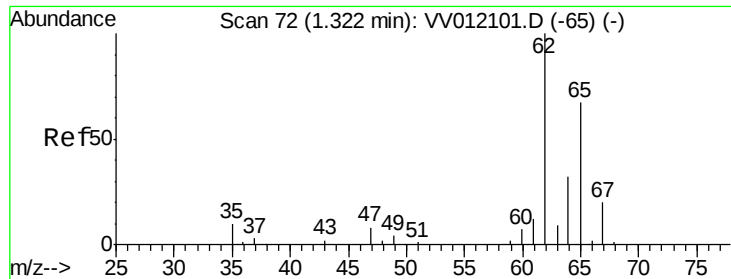
52 34.9 25.0 46.4



Abundance Ion 50.00 (49.70 to 50.70): VV012101.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012101.D (-43) (-)





#5

Vinyl chloride

Concen: 1.762 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

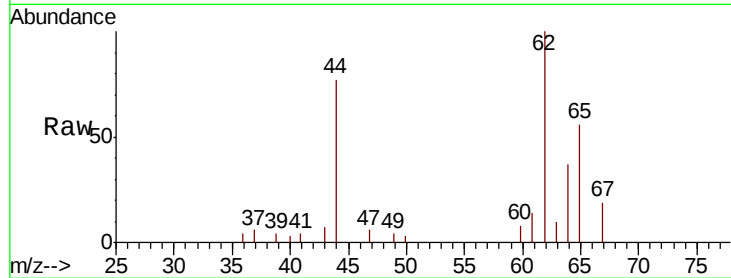
VSTD2.561

Tgt Ion: 62 Resp: 5096

Ion Ratio Lower Upper

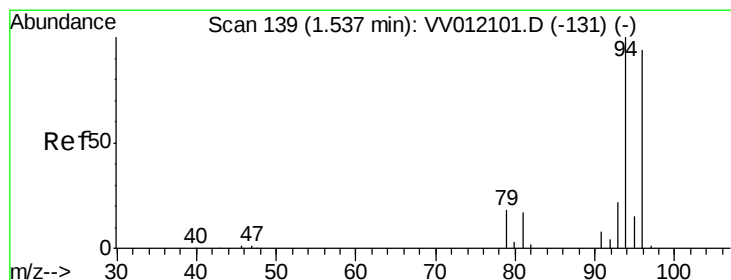
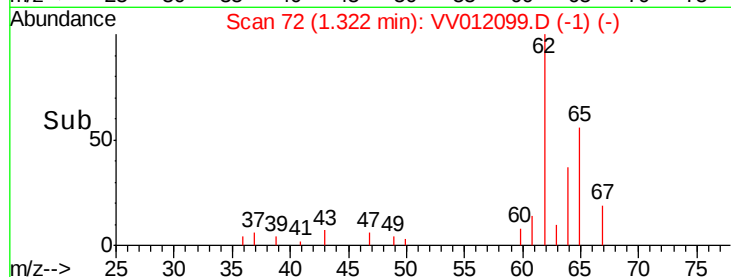
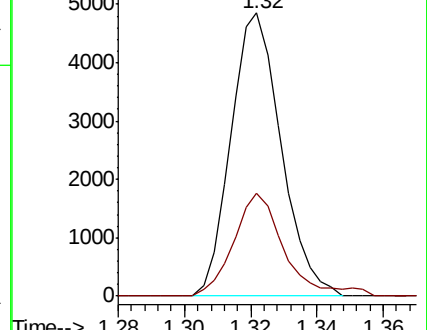
62 100

64 36.6 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VV012101.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV012101.D (-65) (-)



#6

Bromomethane

Concen: 1.894 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012099.D

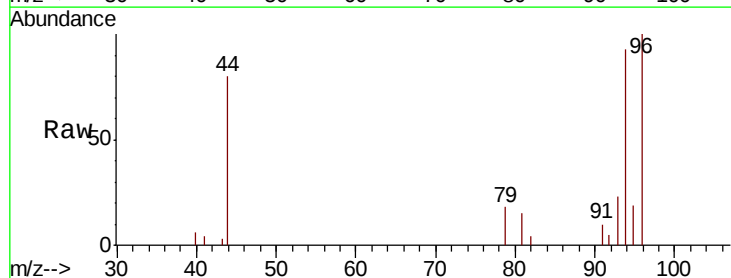
Acq: 03 Aug 2019 09:37

Tgt Ion: 94 Resp: 3038

Ion Ratio Lower Upper

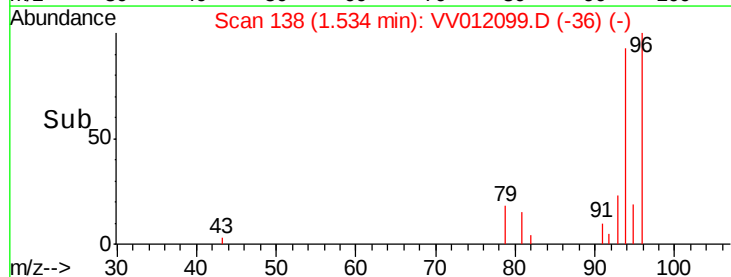
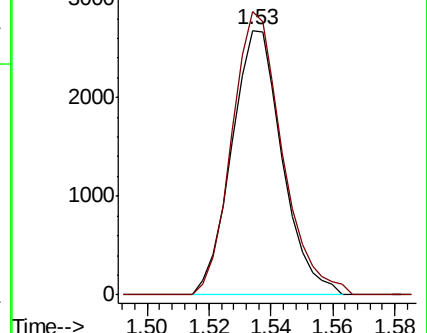
94 100

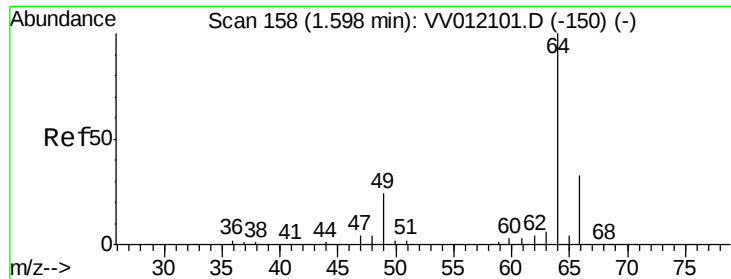
96 107.1 9.3 176.3



Abundance Ion 94.00 (93.70 to 94.70): VV012101.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV012101.D (-131) (-)





#8

Chloroethane

Concen: 1.733 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

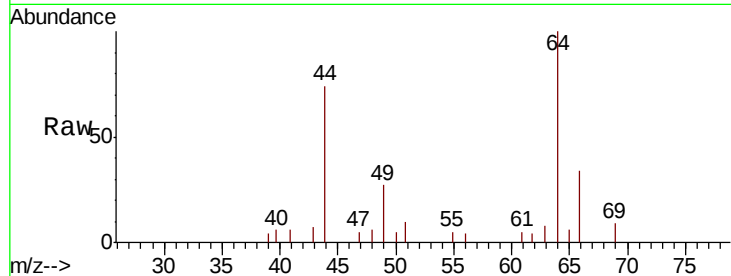
VSTD2.561

Tgt Ion: 64 Resp: 2889

Ion Ratio Lower Upper

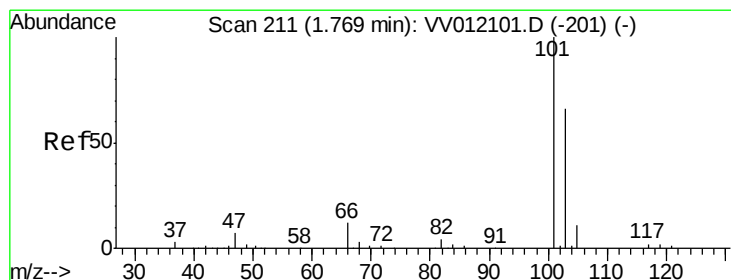
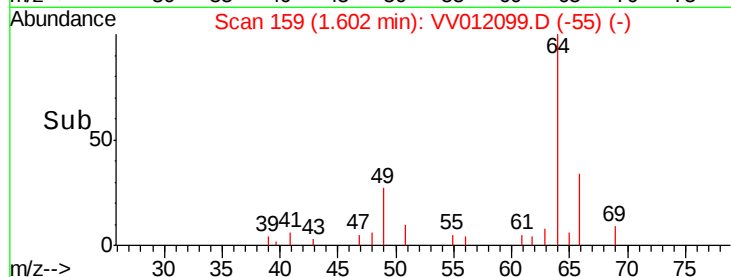
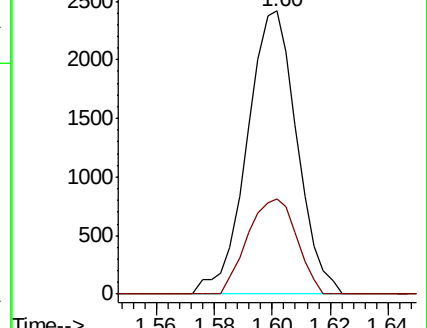
64 100

66 33.9 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV012101.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV012101.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 2.251 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012099.D

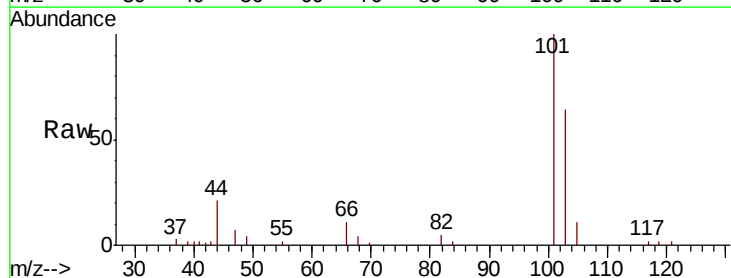
Acq: 03 Aug 2019 09:37

Tgt Ion: 101 Resp: 9750

Ion Ratio Lower Upper

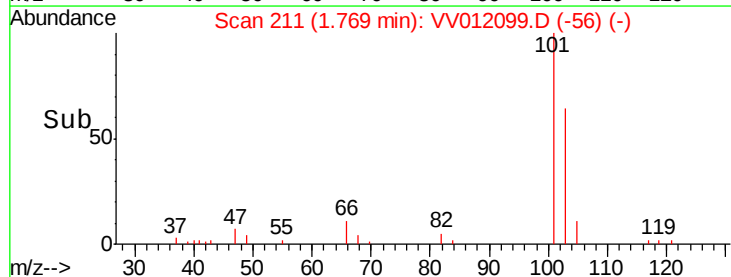
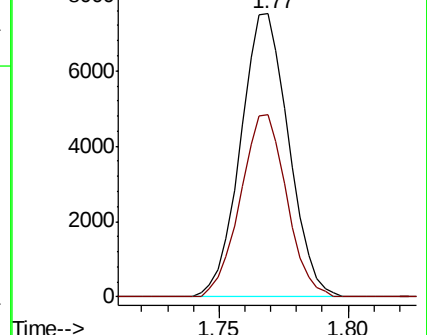
101 100

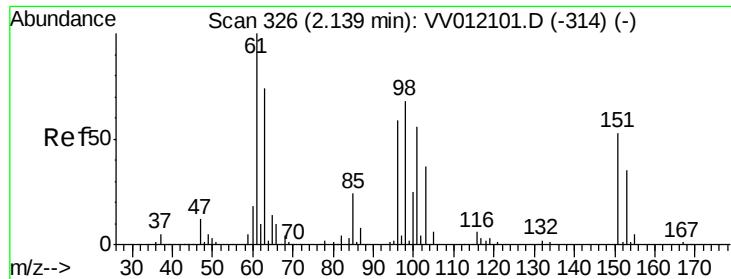
103 61.8 46.3 86.1



Abundance Ion 101.00 (100.70 to 101.70): VV012101.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012101.D (-201) (-)





#11

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

Concen: 2.042 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

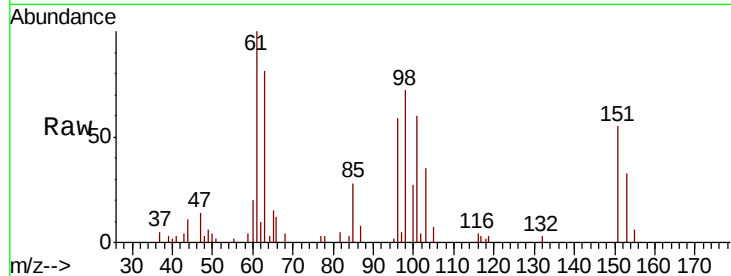
Tgt Ion:101 Resp: 4714

Ion Ratio Lower Upper

101 100

85 45.0 35.0 52.4

151 91.1 73.6 110.4



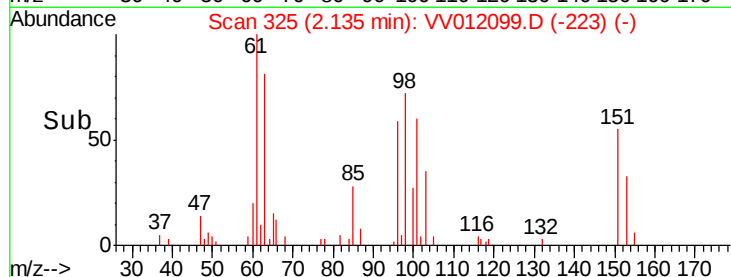
Abundance Ion 101.00 (100.70 to 101.70): VV012101.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV012101.D (-314) (-)

Ion 151.00 (150.70 to 151.70): VV012101.D (-314) (-)

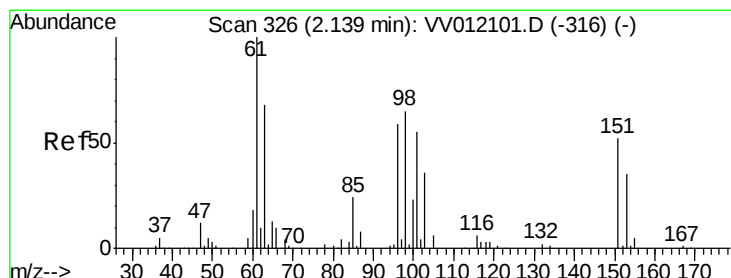
Time-->

2.10 2.15



Time-->

2.10 2.15



#12

1,1-Dichloroethene

Concen: 1.912 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

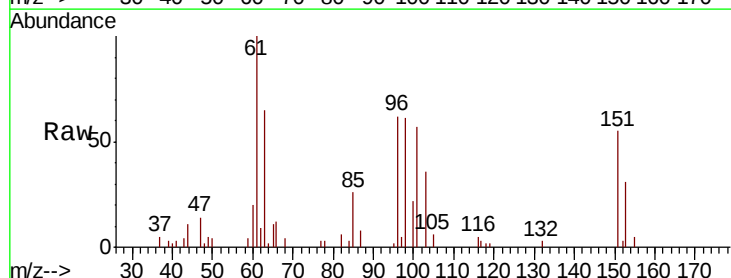
Tgt Ion: 96 Resp: 4048

Ion Ratio Lower Upper

96 100

61 161.0 119.6 222.0

63 105.4 90.2 167.4



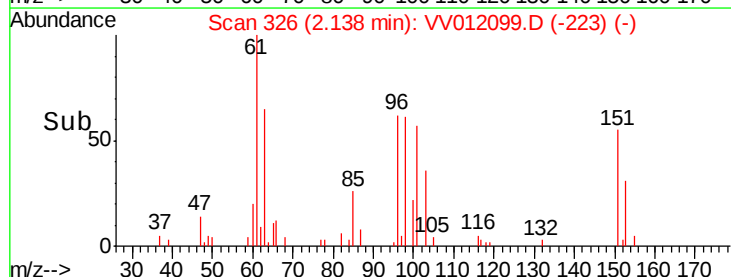
Abundance Ion 96.00 (95.70 to 96.70): VV012101.D (-316) (-)

Ion 61.00 (60.70 to 61.70): VV012101.D (-316) (-)

Ion 63.00 (62.70 to 63.70): VV012101.D (-316) (-)

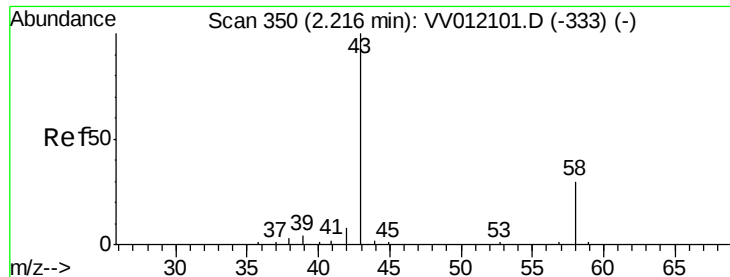
Time-->

2.10 2.12 2.14 2.16 2.18



Time-->

2.10 2.12 2.14 2.16 2.18



#13

Acetone

Concen: 4.902 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

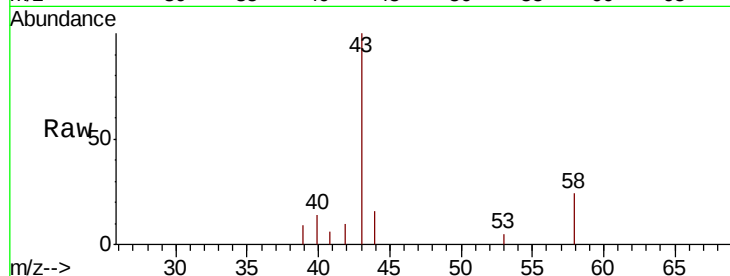
VSTD2.561

Tgt Ion: 43 Resp: 5704

Ion Ratio Lower Upper

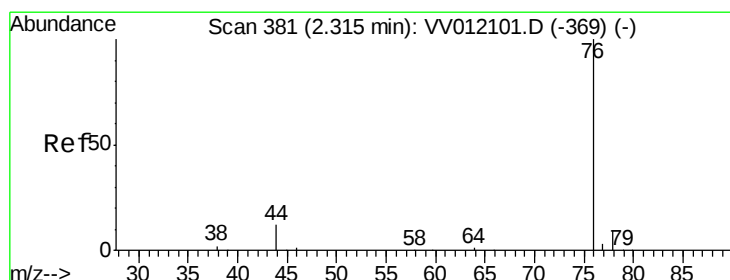
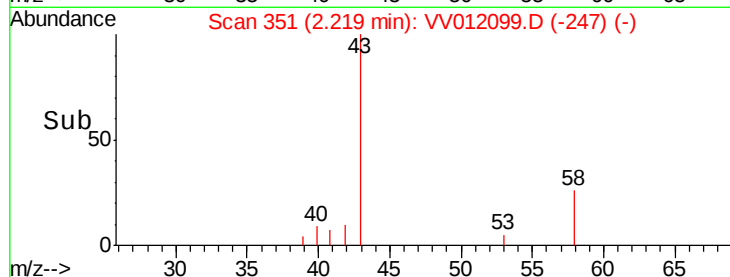
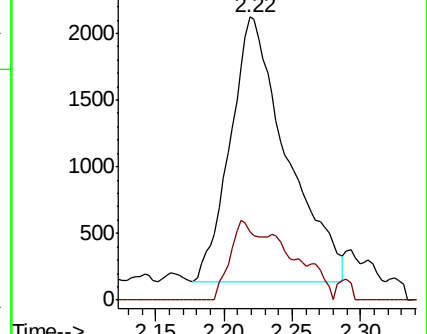
43 100

58 15.6 0.0 59.8



Abundance Ion 43.00 (42.70 to 43.70): VV012101.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VV012101.D (-333) (-)



#14

Carbon disulfide

Concen: 2.460 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012099.D

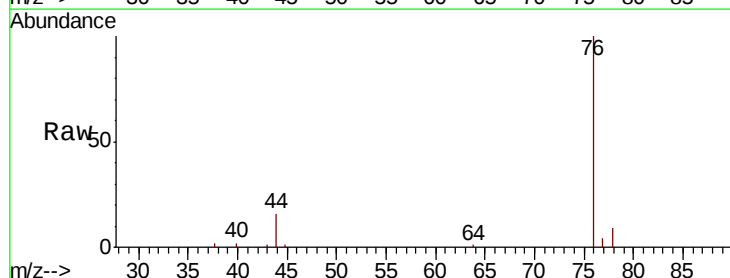
Acq: 03 Aug 2019 09:37

Tgt Ion: 76 Resp: 17551

Ion Ratio Lower Upper

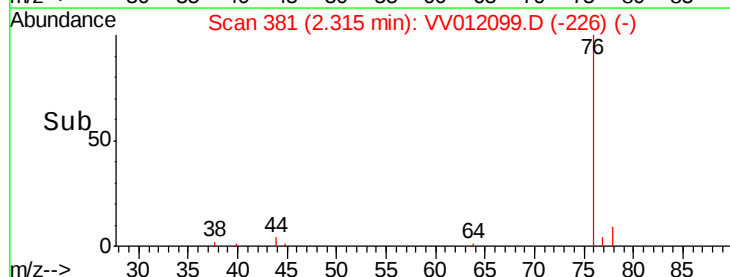
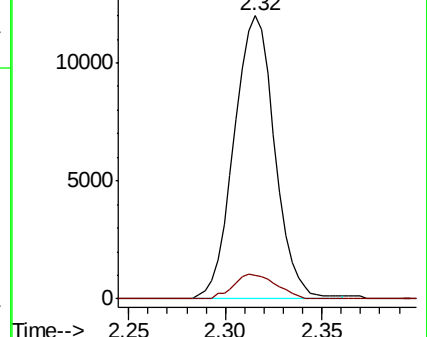
76 100

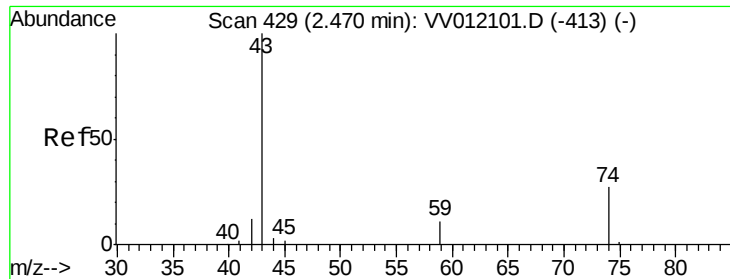
78 8.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV012101.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV012101.D (-369) (-)

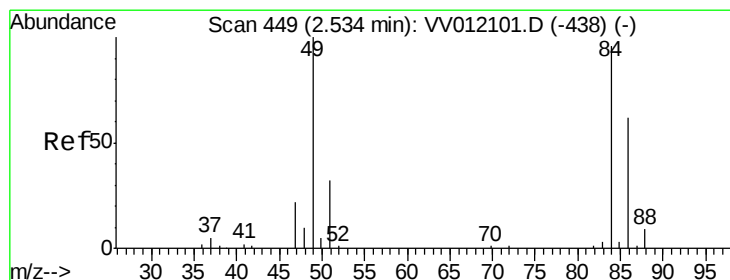
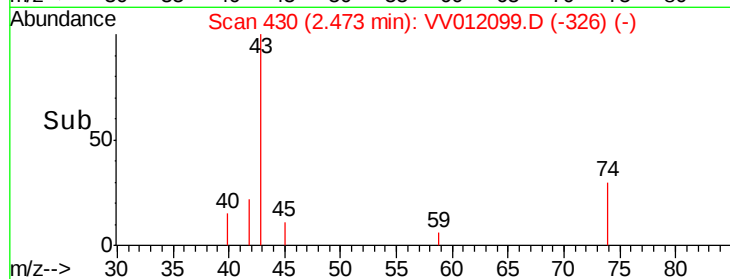
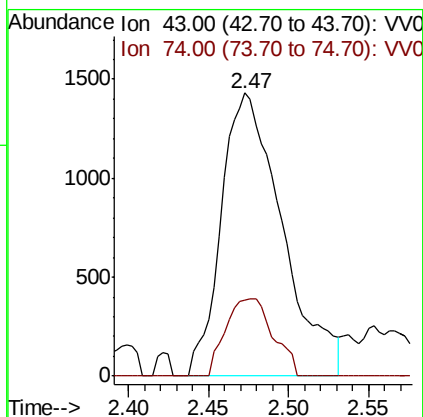
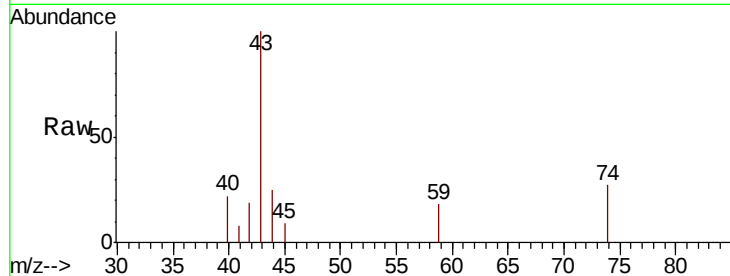




#15  
Methyl Acetate  
Concen: 2.242 ug/L  
RT: 2.47 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

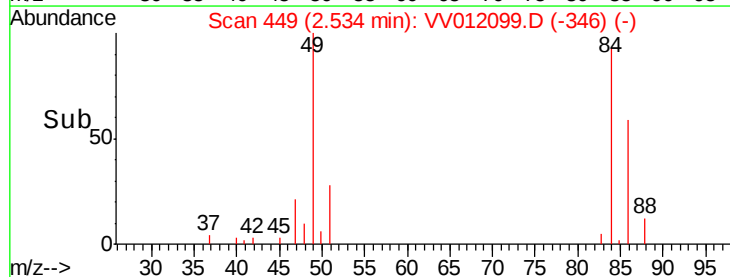
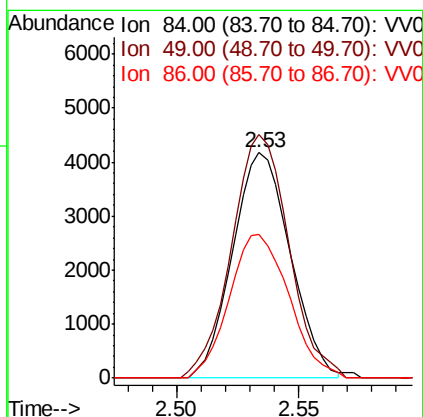
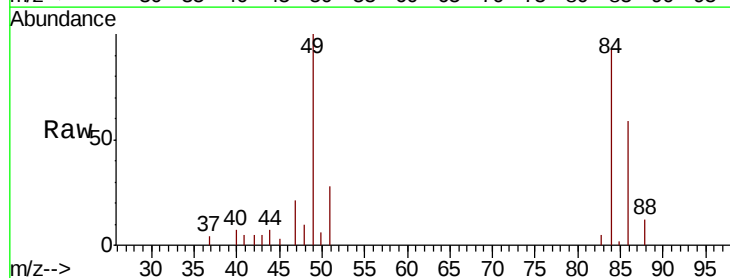
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.561

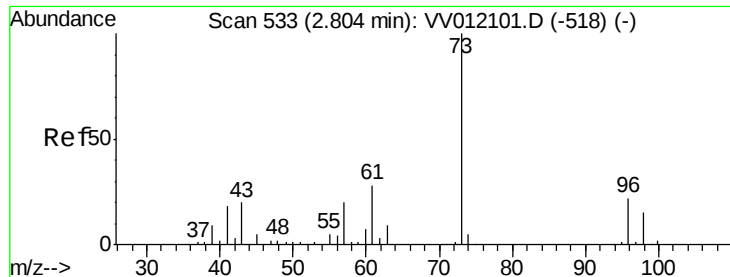
Tgt Ion: 43 Resp: 3749  
Ion Ratio Lower Upper  
43 100  
74 21.0 21.9 32.9#



#16  
Methylene chloride  
Concen: 2.305 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. -0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

Tgt Ion: 84 Resp: 6846  
Ion Ratio Lower Upper  
84 100  
49 108.0 73.0 135.6  
86 63.7 44.9 83.3

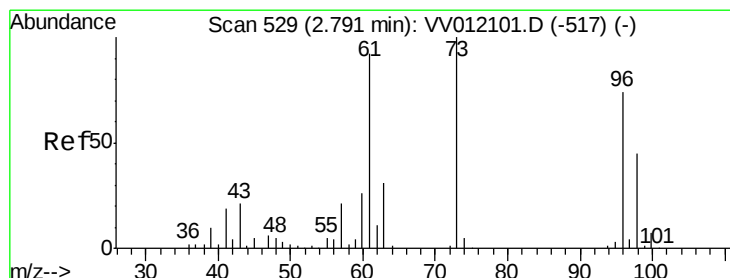
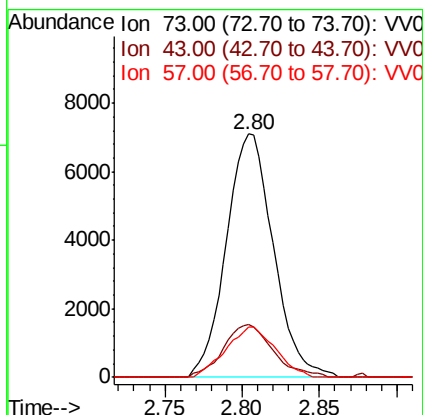
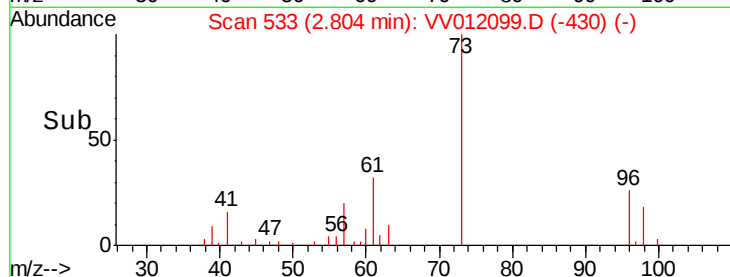
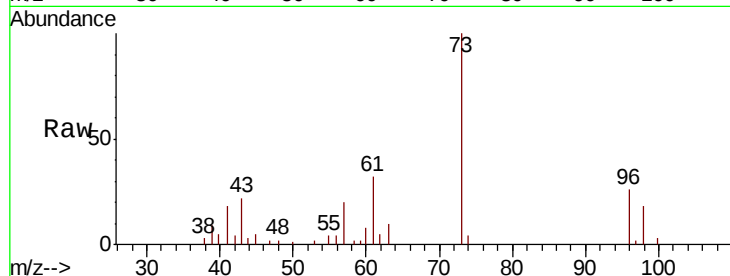




#17  
Methyl tert-butyl Ether  
Concen: 1.972 ug/L  
RT: 2.80 min Scan# 533  
Delta R.T. -0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

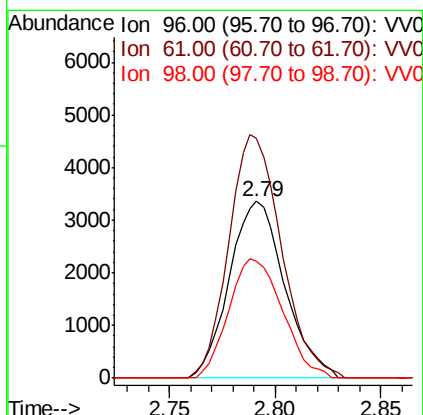
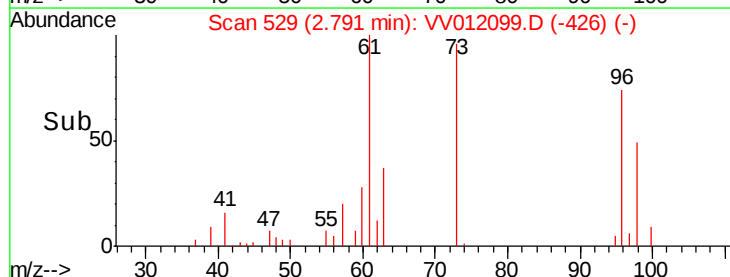
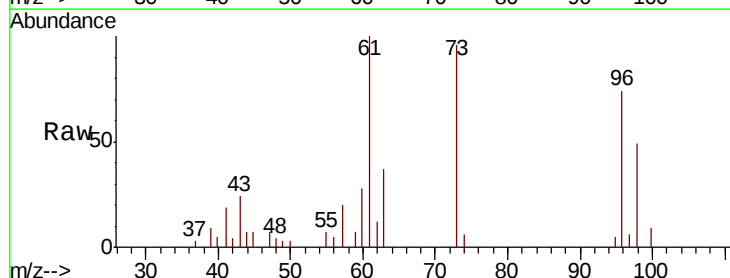
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.561

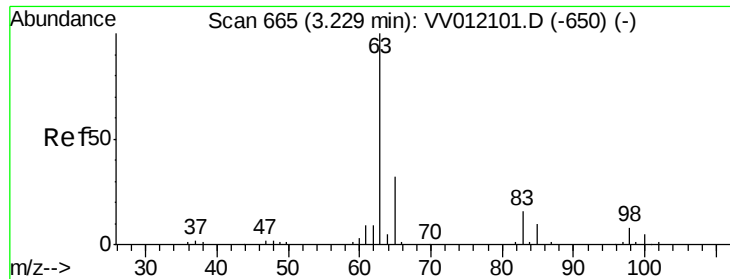
Tgt Ion: 73 Resp: 14994  
Ion Ratio Lower Upper  
73 100  
43 22.8 16.4 24.6  
57 21.5 15.9 23.9



#18  
trans-1,2-Dichloroethene  
Concen: 2.265 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. -0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

Tgt Ion: 96 Resp: 6126  
Ion Ratio Lower Upper  
96 100  
61 135.5 86.9 161.5  
98 65.8 42.9 79.7

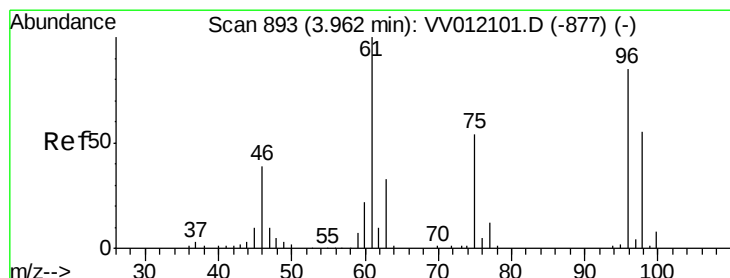
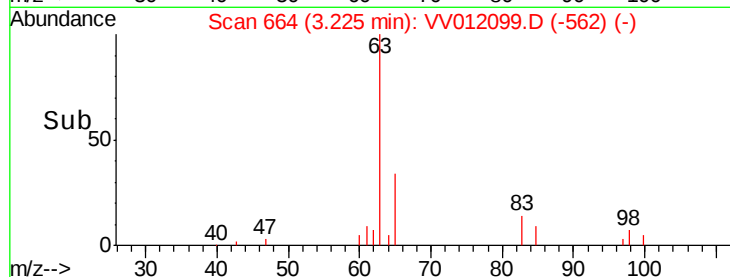
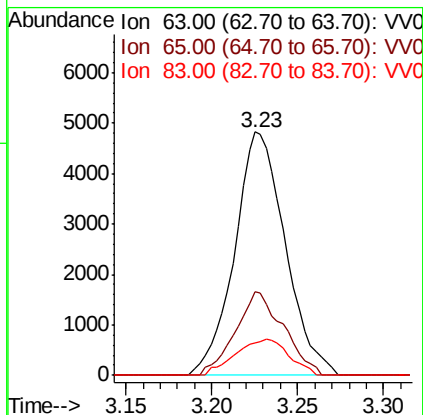
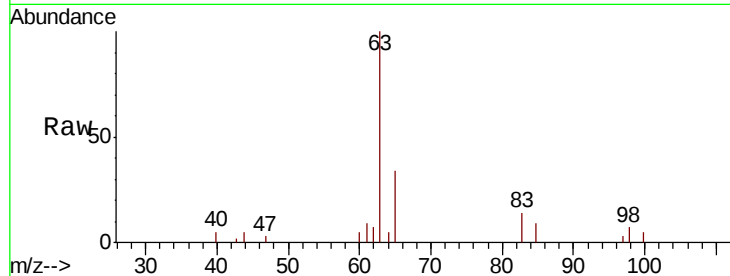




#19  
 1,1-Dichloroethane  
 Concen: 1.945 ug/L  
 RT: 3.23 min Scan# 664  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

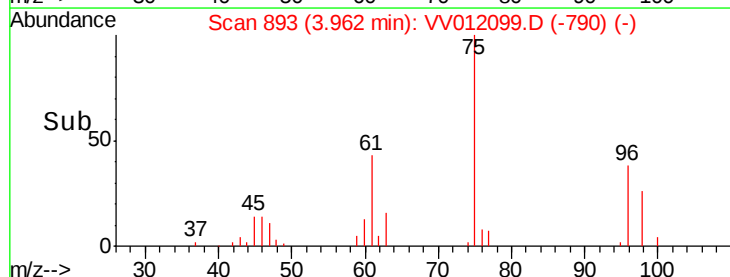
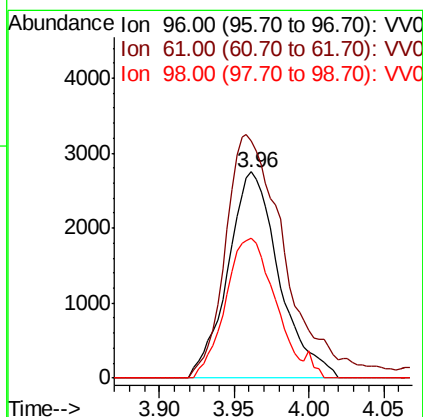
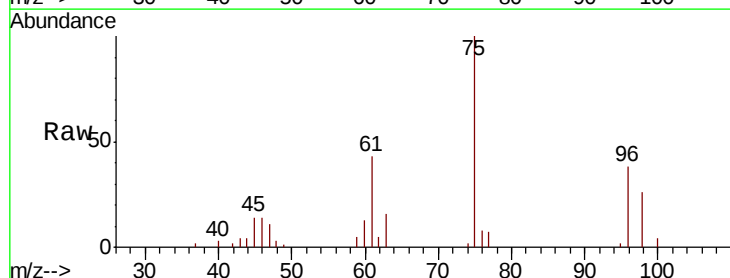
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

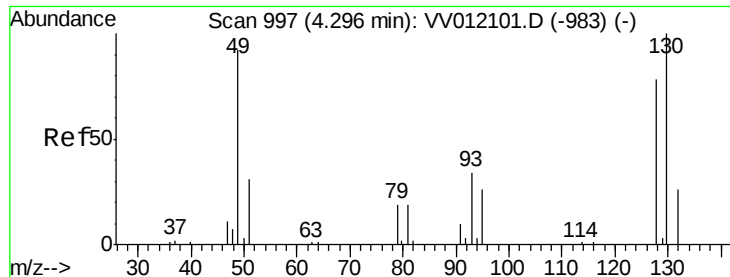
Tgt Ion: 63 Resp: 9856  
 Ion Ratio Lower Upper  
 63 100  
 65 34.2 22.1 41.1  
 83 13.6 10.9 20.2



#22  
 cis-1,2-Dichloroethene  
 Concen: 2.187 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Tgt Ion: 96 Resp: 6548  
 Ion Ratio Lower Upper  
 96 100  
 61 114.9 82.4 153.0  
 98 68.0 45.3 84.1

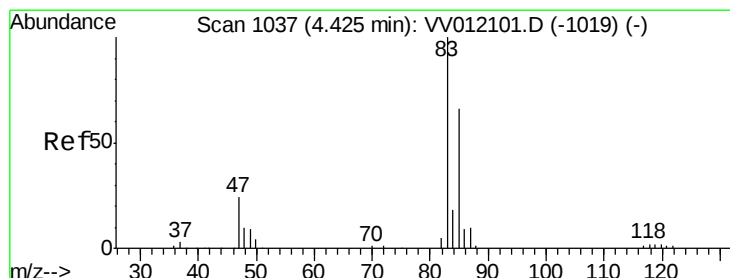
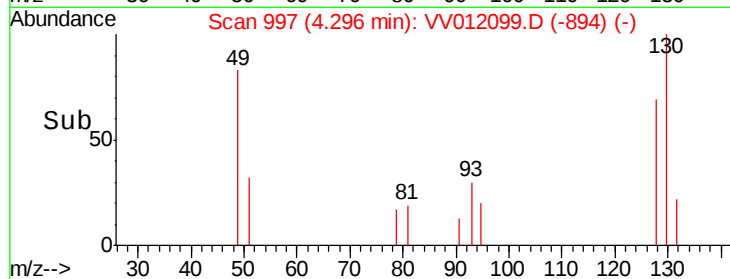
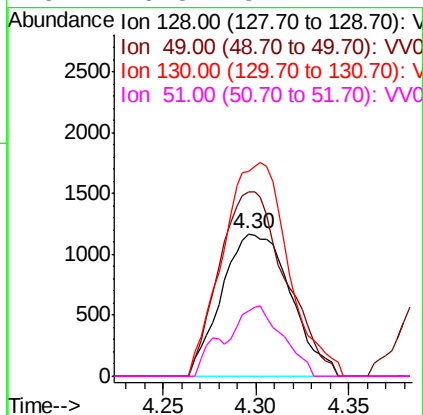
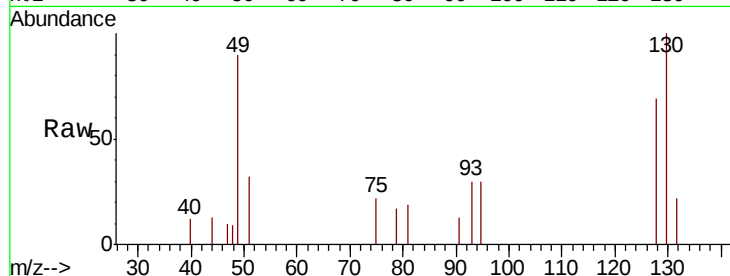




#23  
 Bromochloromethane  
 Concen: 2.237 ug/L  
 RT: 4.30 min Scan# 997  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

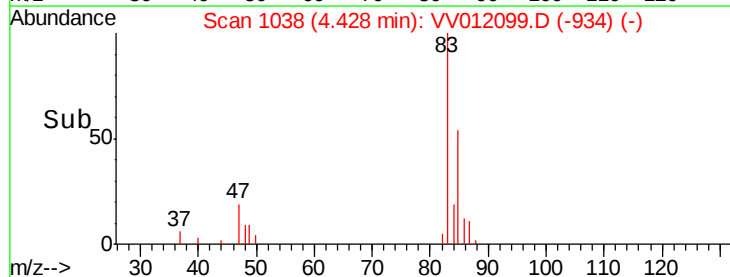
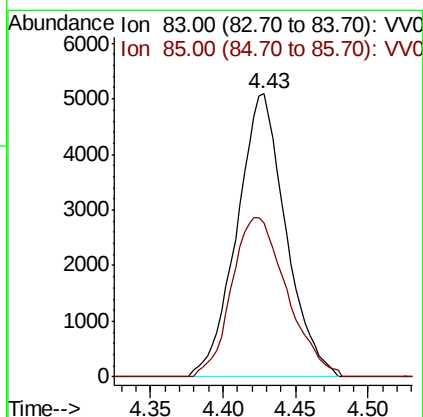
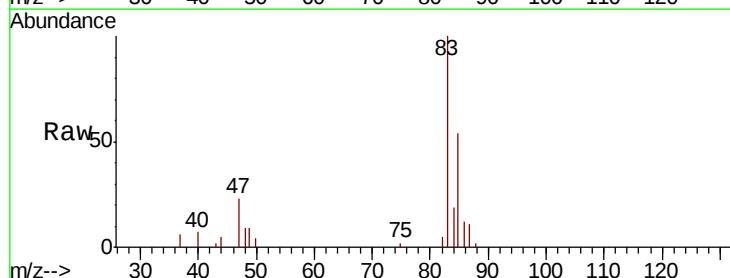
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

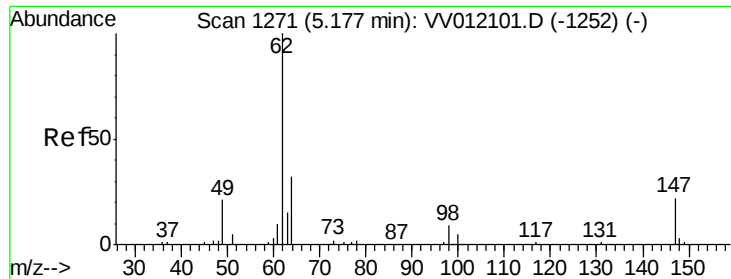
| Tgt Ion: | 128   | Resp: | 3027  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 129.8 | 83.9  | 155.7 |
| 130      | 144.3 | 90.0  | 167.2 |
| 51       | 45.8  | 31.4  | 47.2  |



#25  
 Chloroform  
 Concen: 2.180 ug/L  
 RT: 4.43 min Scan# 1038  
 Delta R.T. 0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

| Tgt Ion: | 83    | Resp: | 11956 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.5  | 46.2  | 85.8  |

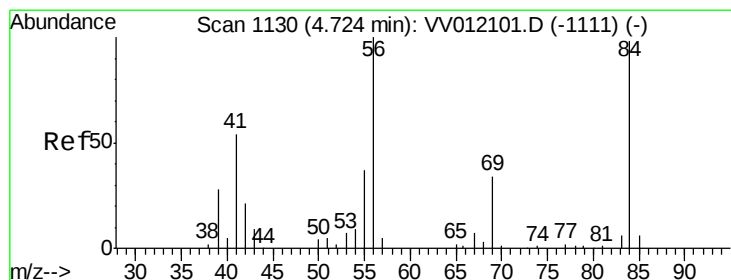
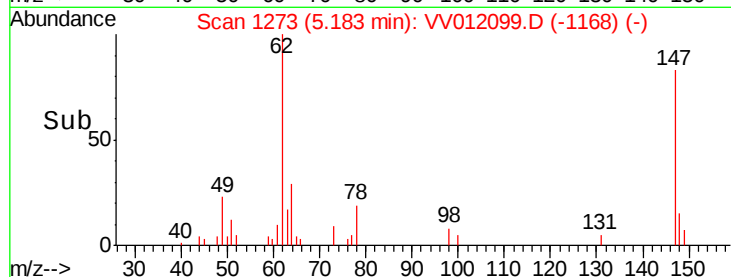
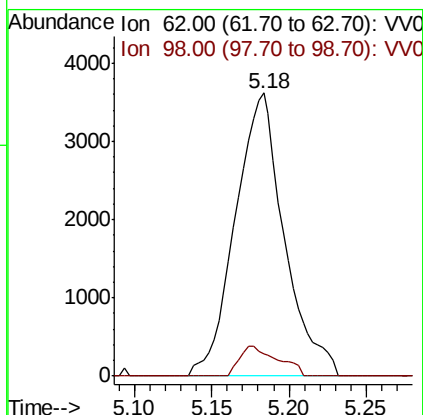
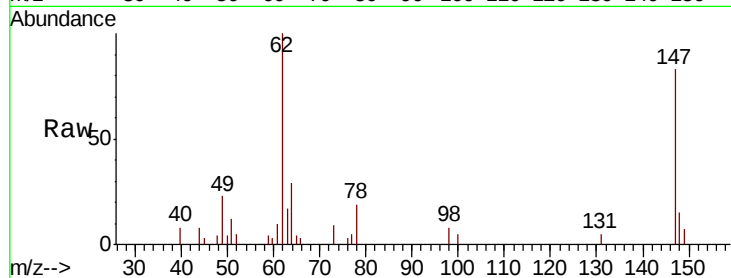




#27  
 1,2-Dichloroethane  
 Concen: 2.050 ug/L  
 RT: 5.18 min Scan# 1273  
 Delta R.T. 0.01 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

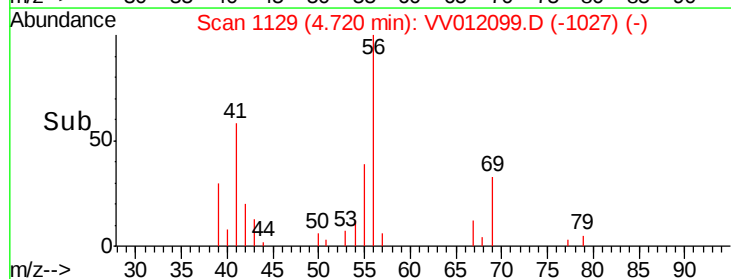
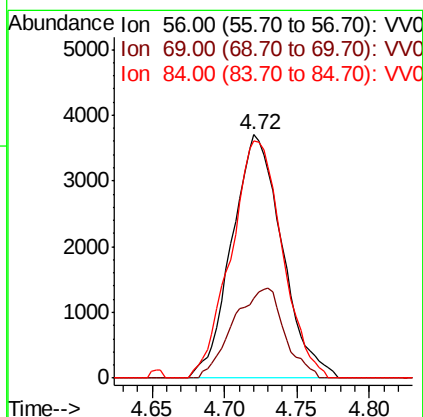
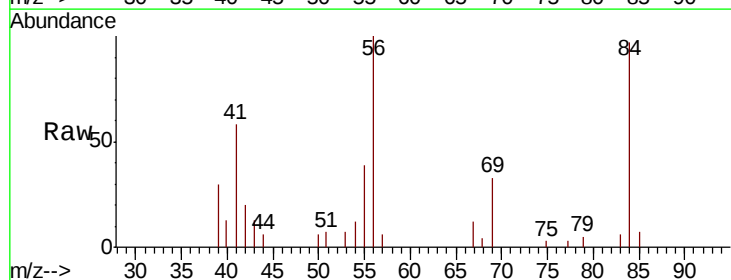
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

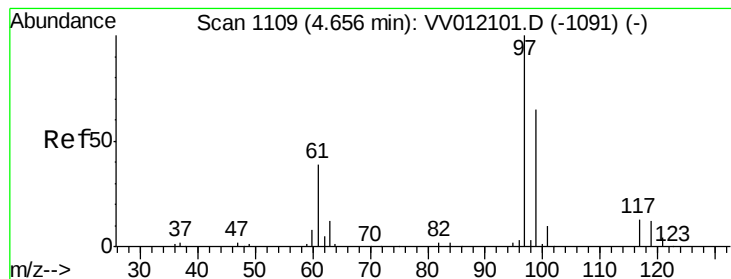
Tgt Ion: 62 Resp: 7969  
 Ion Ratio Lower Upper  
 62 100  
 98 7.9 7.0 10.4



#30  
 Cyclohexane  
 Concen: 1.908 ug/L  
 RT: 4.72 min Scan# 1129  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Tgt Ion: 56 Resp: 8929  
 Ion Ratio Lower Upper  
 56 100  
 69 37.5 27.4 41.0  
 84 99.5 78.6 118.0





#31

1,1,1-Trichloroethane

Concen: 2.589 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

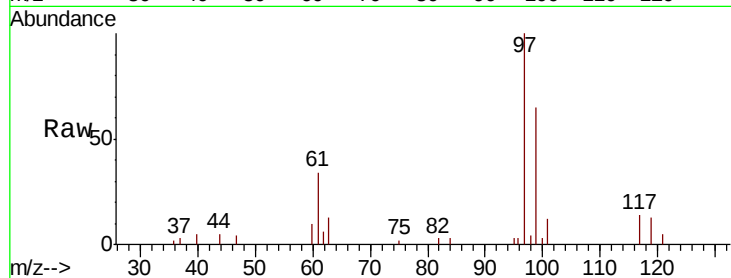
Tgt Ion: 97 Resp: 11109

Ion Ratio Lower Upper

97 100

99 65.2 51.6 77.4

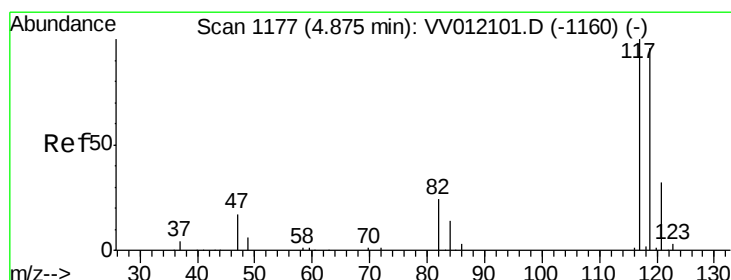
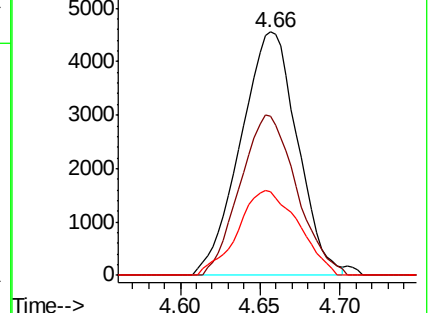
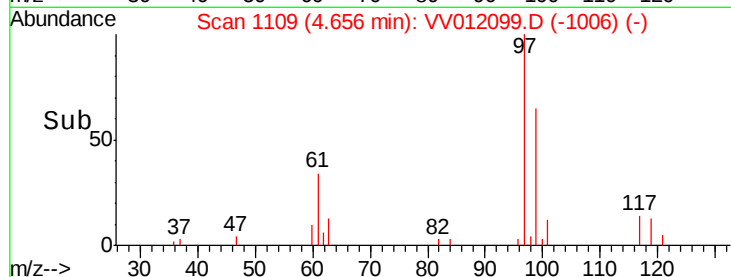
61 37.3 30.6 46.0



Abundance Ion 97.00 (96.70 to 97.70): VV012101.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV012101.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV012101.D (-1091) (-)



#32

Carbon tetrachloride

Concen: 3.071 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012099.D

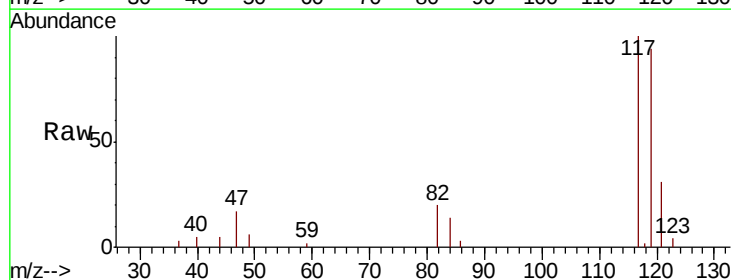
Acq: 03 Aug 2019 09:37

Tgt Ion: 117 Resp: 11449

Ion Ratio Lower Upper

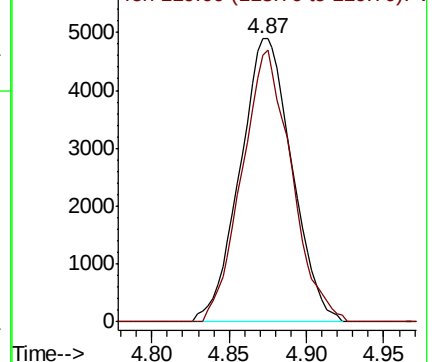
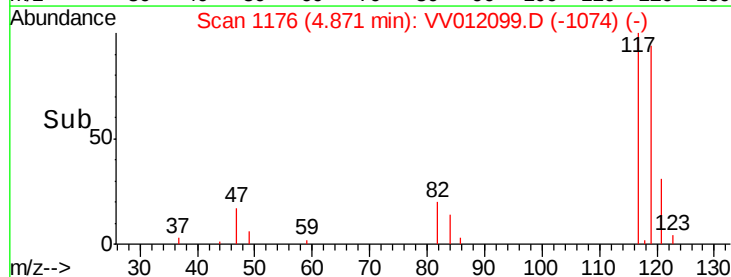
117 100

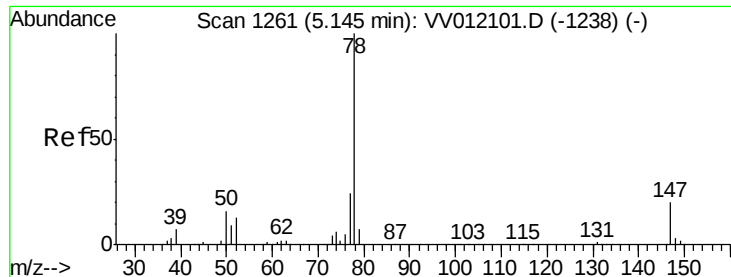
119 91.5 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): VV012101.D (-1160) (-)

Ion 119.00 (118.70 to 119.70): VV012101.D (-1160) (-)





#34

Benzene

Concen: 2.176 ug/L

RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

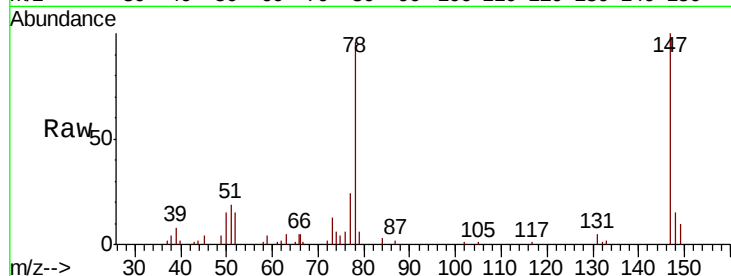
Instrument :

MSVOA\_V

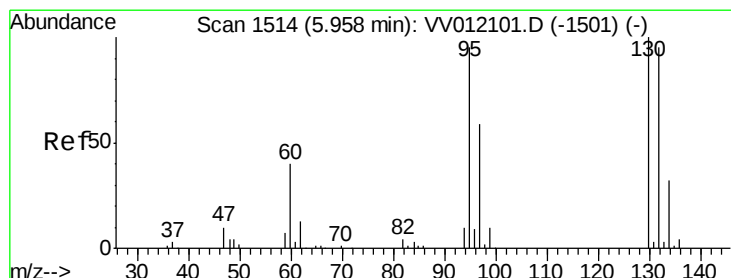
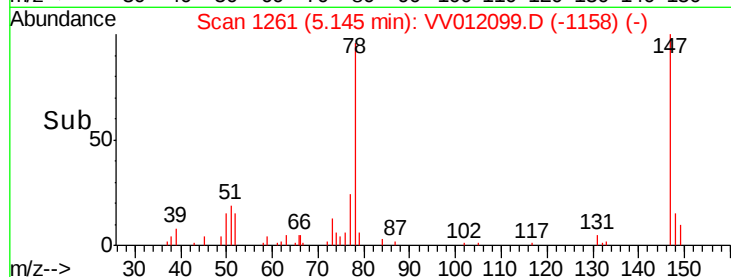
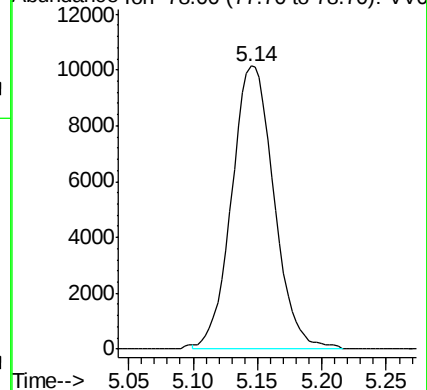
ClientSampleId :

VSTD2.561

Tgt Ion: 78 Resp: 23122



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 2.371 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Tgt Ion: 95 Resp: 6759

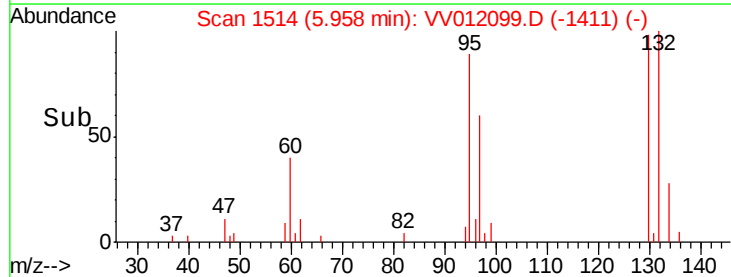
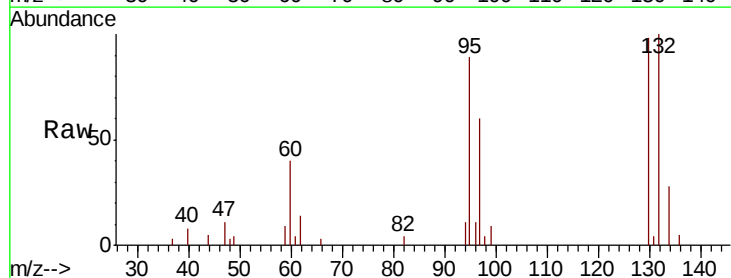
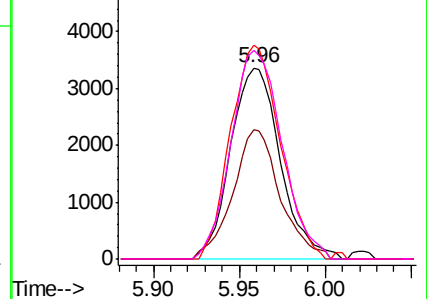
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.3  | 45.4  | 84.2  |
| 132 | 112.1 | 71.8  | 133.4 |
| 130 | 111.8 | 75.6  | 140.4 |

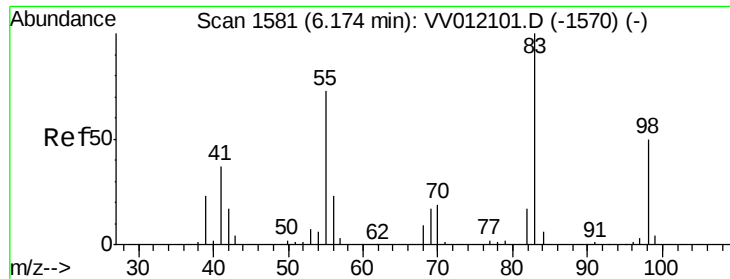
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

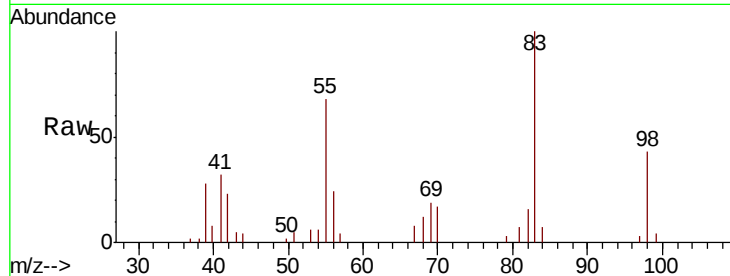




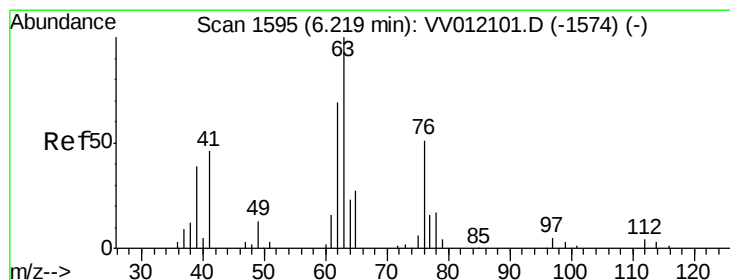
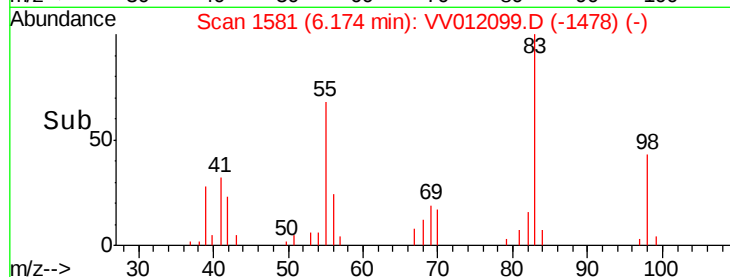
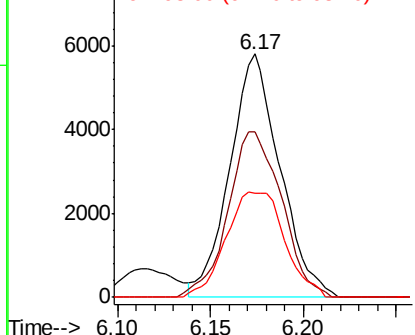
#36  
Methylcyclohexane  
Concen: 2.279 ug/L  
RT: 6.17 min Scan# 1581  
Delta R.T. -0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.561

Tgt Ion: 83 Resp: 10893  
Ion Ratio Lower Upper  
83 100  
55 72.6 56.2 84.2  
98 26.5 37.8 56.8#

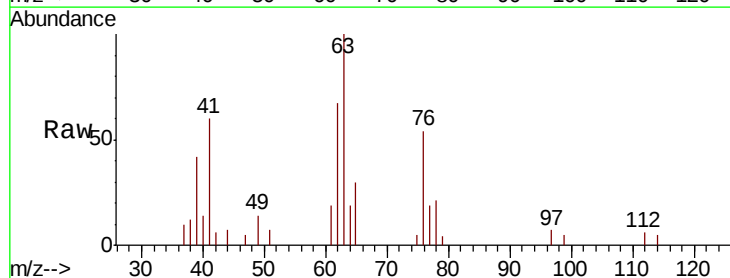


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 55.00 (54.70 to 55.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

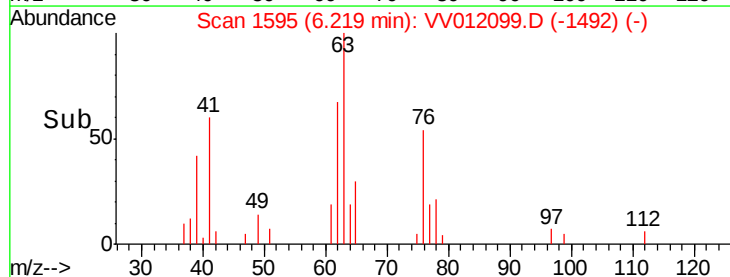
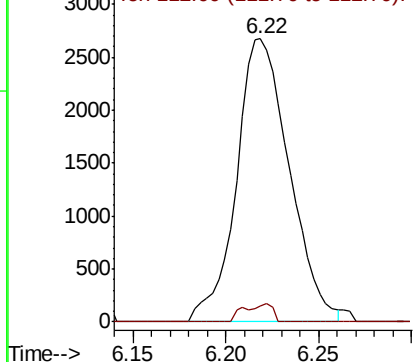


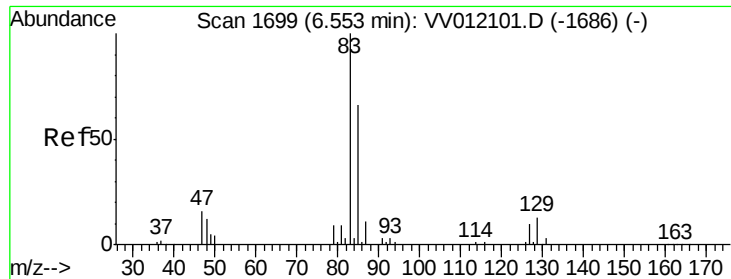
#40  
1,2-Dichloropropane  
Concen: 1.929 ug/L  
RT: 6.22 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

Tgt Ion: 63 Resp: 5298  
Ion Ratio Lower Upper  
63 100  
112 2.2 3.9 5.9#



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 112.00 (111.70 to 112.70): V





#41

Bromodichloromethane

Concen: 2.220 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

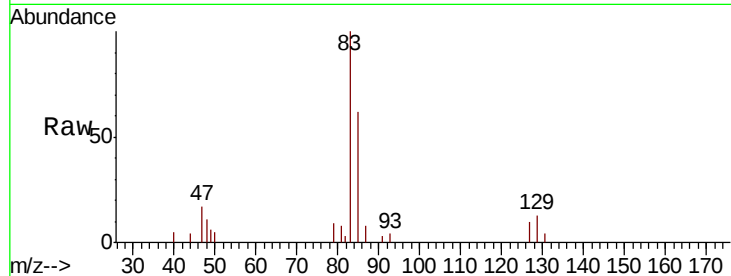
Tgt Ion: 83 Resp: 8206

Ion Ratio Lower Upper

83 100

85 61.6 46.5 86.3

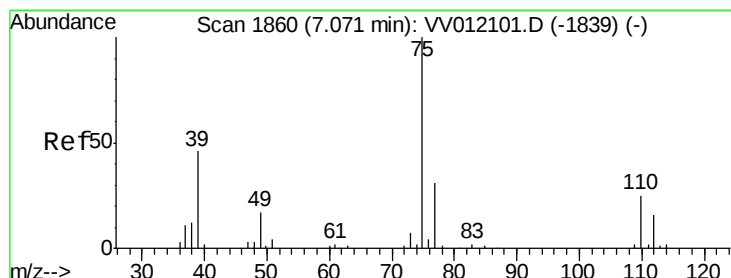
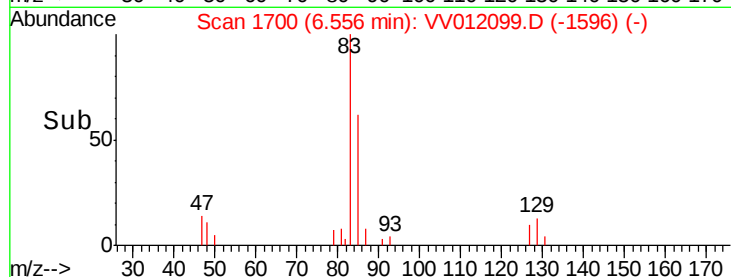
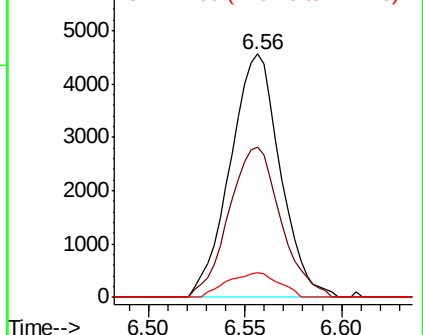
127 10.2 7.9 11.9



Abundance Ion 83.00 (82.70 to 83.70): VV012099.D (-1596) (-)

Ion 85.00 (84.70 to 85.70): VV012099.D (-1596) (-)

Ion 127.00 (126.70 to 127.70): VV012099.D (-1596) (-)



#42

cis-1,3-Dichloropropene

Concen: 2.048 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV012099.D

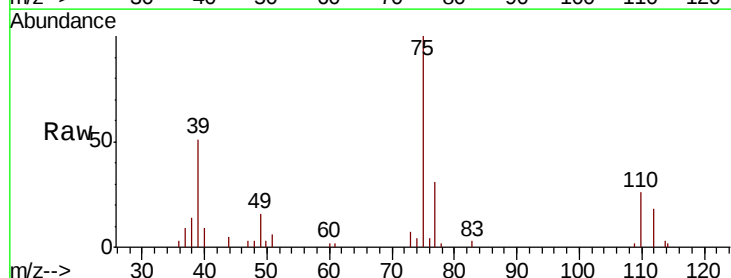
Acq: 03 Aug 2019 09:37

Tgt Ion: 75 Resp: 9122

Ion Ratio Lower Upper

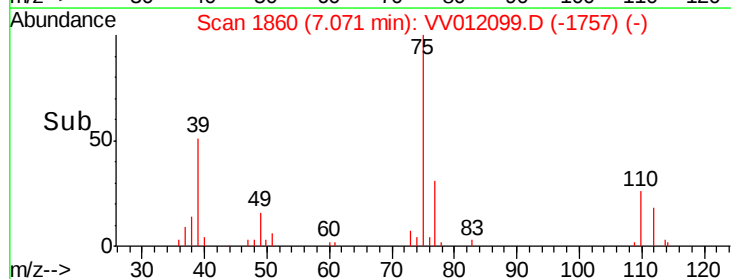
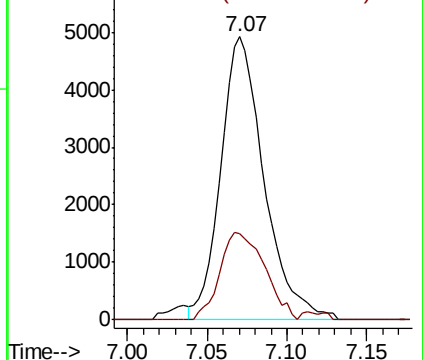
75 100

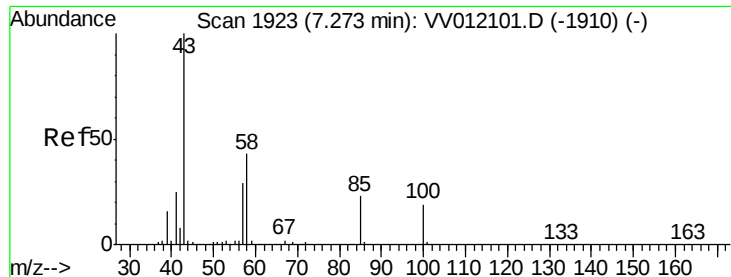
77 30.5 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV012099.D (-1757) (-)

Ion 77.00 (76.70 to 77.70): VV012099.D (-1757) (-)

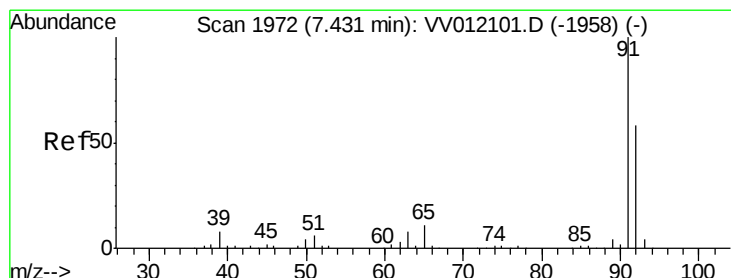
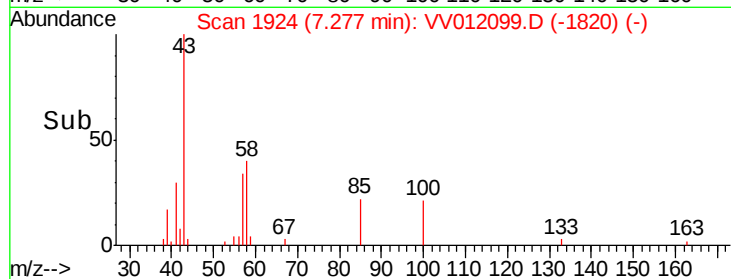
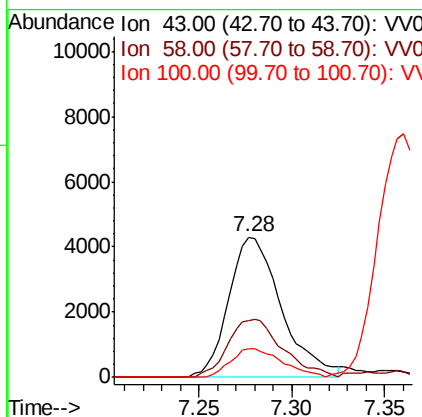
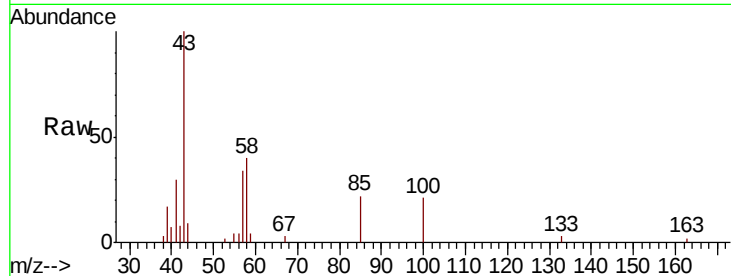




#43  
4-Methyl-2-pentanone  
Concen: 3.390 ug/L  
RT: 7.28 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

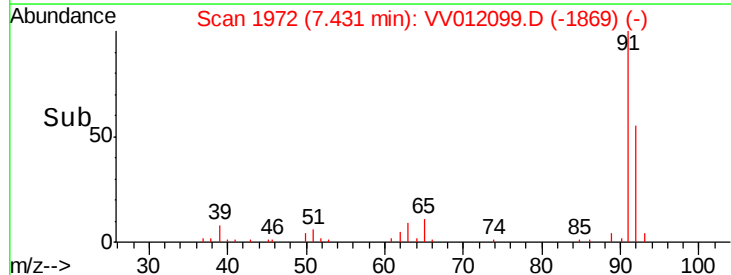
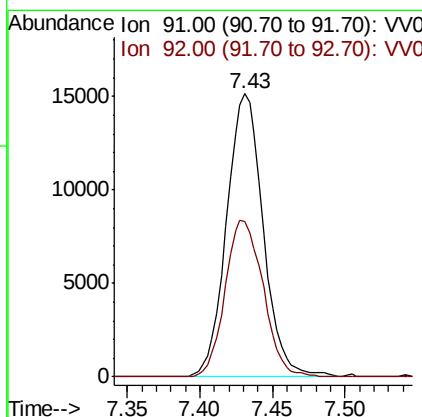
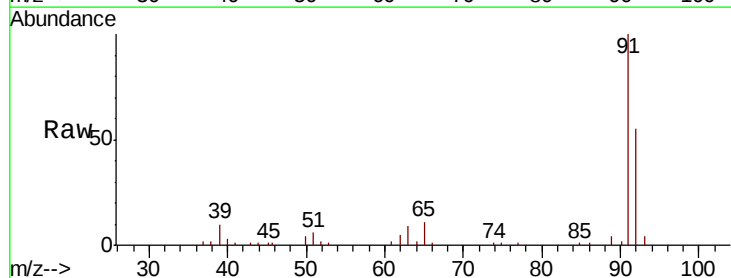
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.561

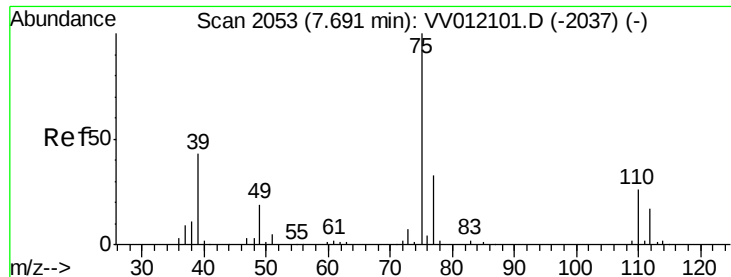
Tgt Ion: 43 Resp: 8501  
Ion Ratio Lower Upper  
43 100  
58 40.7 33.9 50.9  
100 20.2 14.9 22.3



#44  
Toluene  
Concen: 2.262 ug/L  
RT: 7.43 min Scan# 1972  
Delta R.T. -0.00 min  
Lab File: VV012099.D  
Acq: 03 Aug 2019 09:37

Tgt Ion: 91 Resp: 26493  
Ion Ratio Lower Upper  
91 100  
92 54.7 40.4 75.0





#45

trans-1,3-Dichloropropene

Concen: 2.086 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

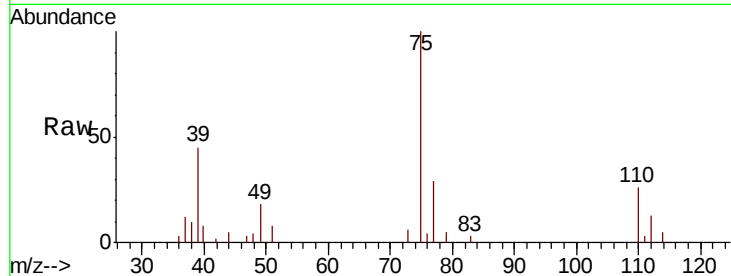
VSTD2.561

Tgt Ion: 75 Resp: 7951

Ion Ratio Lower Upper

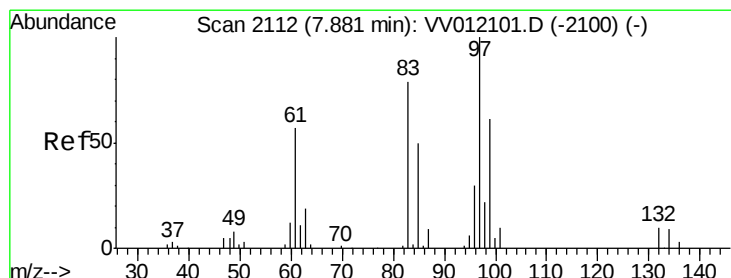
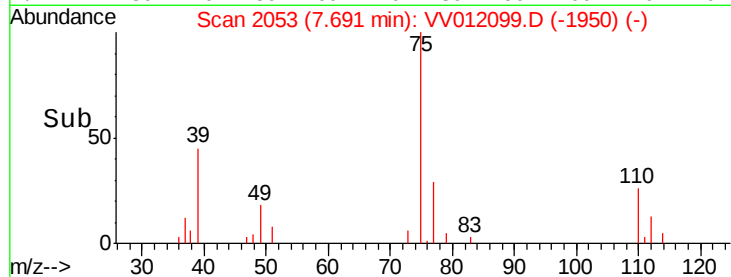
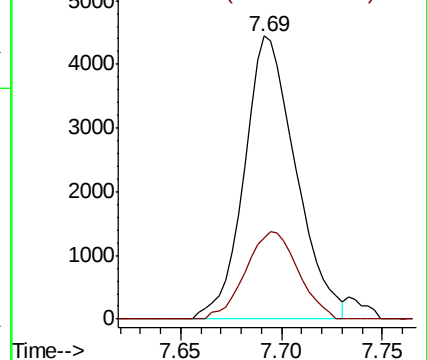
75 100

77 28.8 23.3 43.3



Abundance Ion 75.00 (74.70 to 75.70): VV012101.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV012101.D (-2037) (-)



#46

1,1,2-Trichloroethane

Concen: 2.228 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Tgt Ion: 97 Resp: 4946

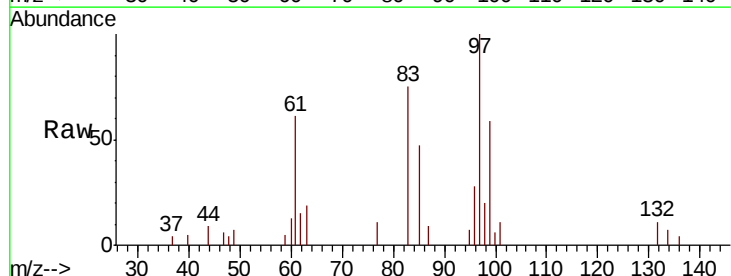
Ion Ratio Lower Upper

97 100

83 74.9 55.2 102.6

85 46.7 35.4 65.7

99 58.7 43.0 80.0

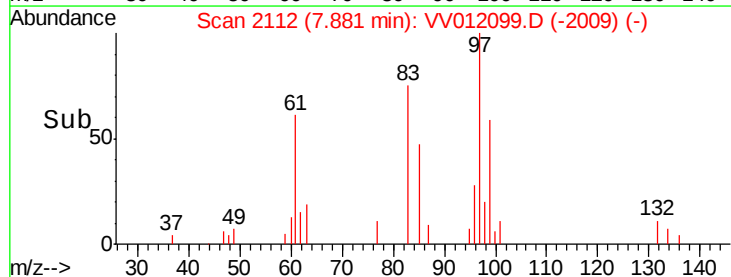
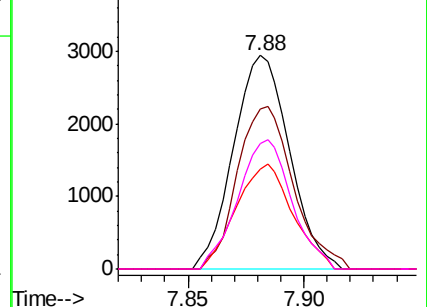


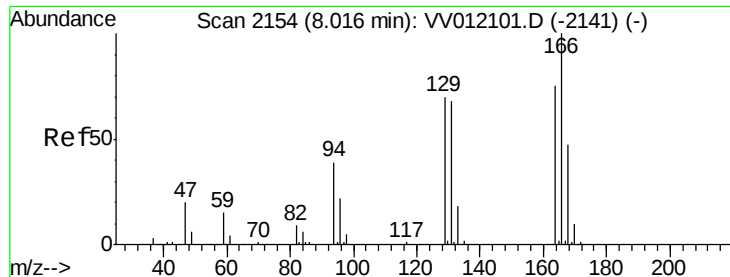
Abundance Ion 97.00 (96.70 to 97.70): VV012101.D (-2100) (-)

Ion 83.00 (82.70 to 83.70): VV012101.D (-2100) (-)

Ion 85.00 (84.70 to 85.70): VV012101.D (-2100) (-)

Ion 99.00 (98.70 to 99.70): VV012101.D (-2100) (-)





#47

Tetrachloroethene

Concen: 3.002 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

Tgt Ion:164 Resp: 6670

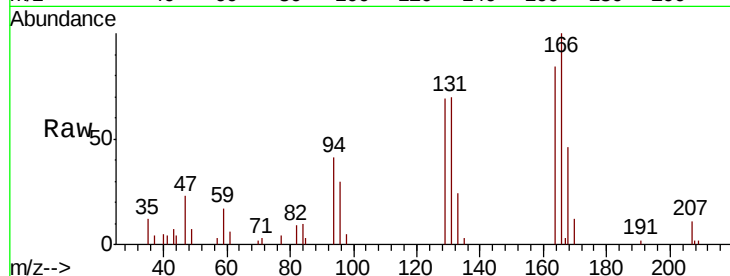
Ion Ratio Lower Upper

164 100

129 82.8 65.5 121.6

131 83.1 63.2 117.4

166 119.6 92.9 172.5

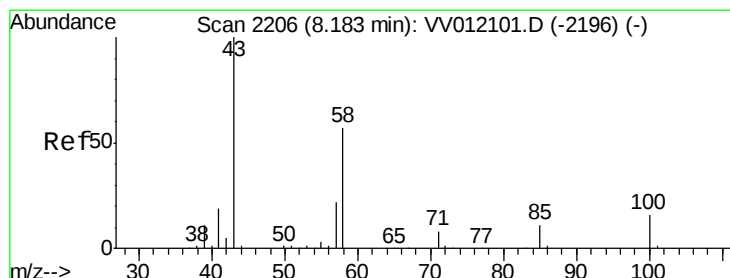
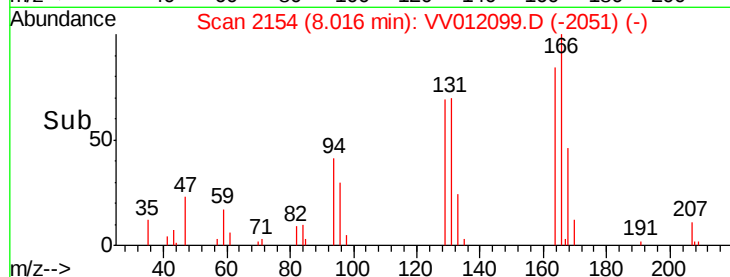
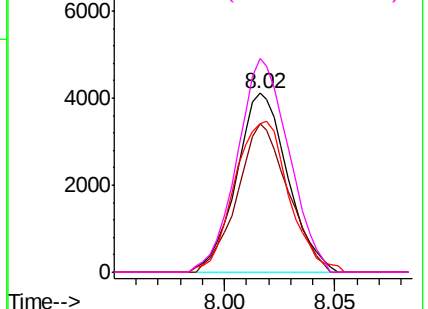


Abundance Ion 164.00 (163.70 to 164.70): V

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



#49

2-Hexanone

Concen: 3.379 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.01 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Tgt Ion: 43 Resp: 6231

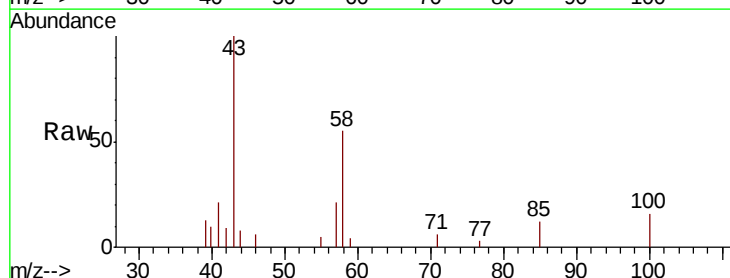
Ion Ratio Lower Upper

43 100

58 57.4 45.7 68.5

57 22.1 18.1 27.1

100 14.5 12.0 18.0

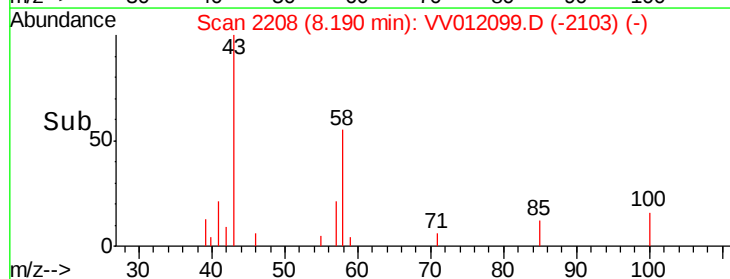
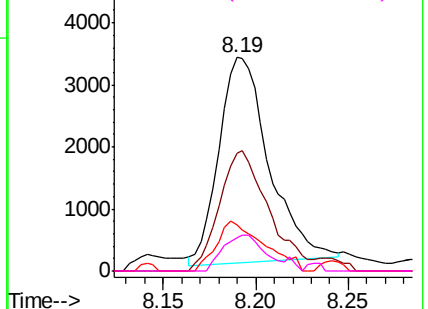


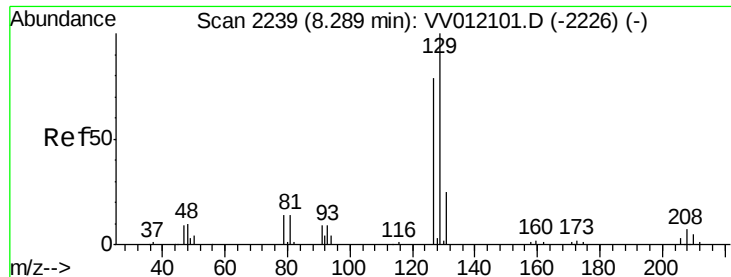
Abundance Ion 43.00 (42.70 to 43.70): VV0

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

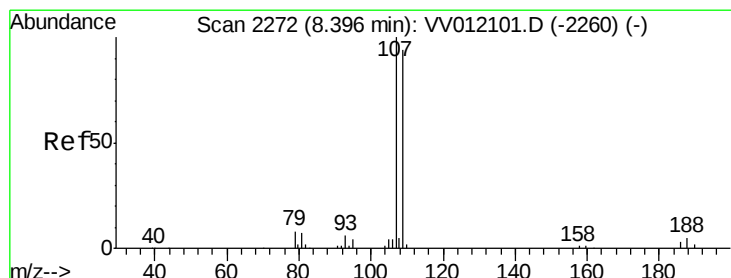
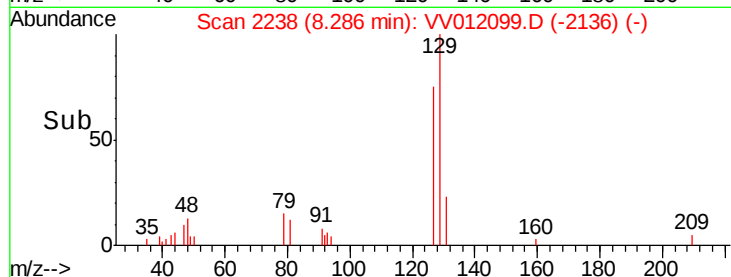
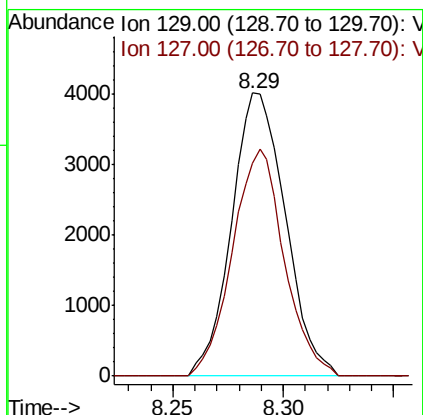
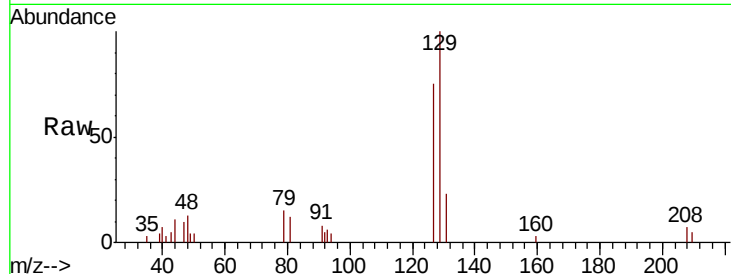




#50  
 Dibromochloromethane  
 Concen: 2.609 ug/L  
 RT: 8.29 min Scan# 2238  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

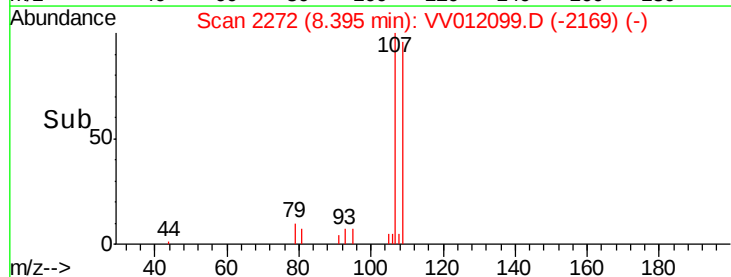
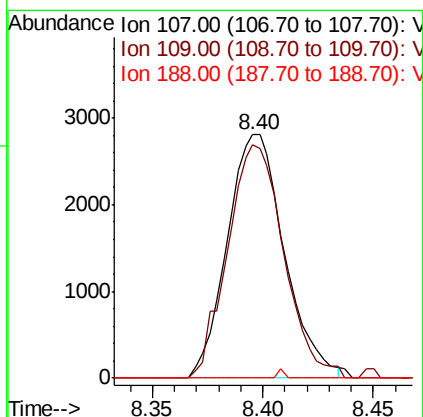
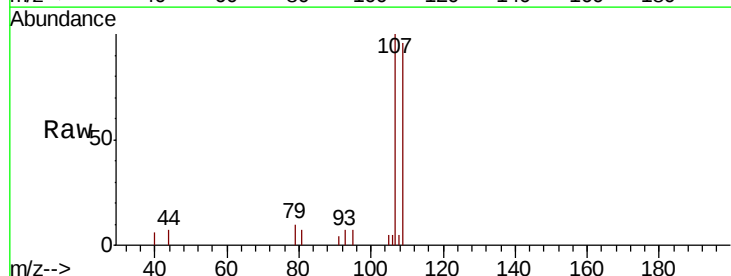
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

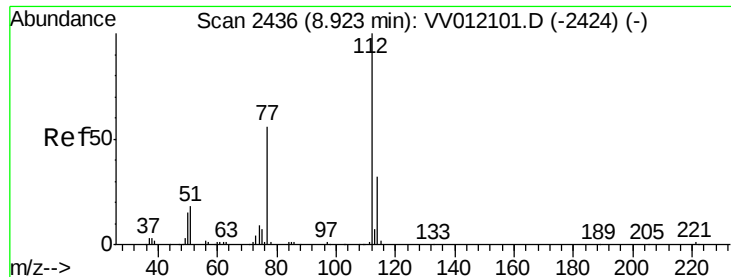
Tgt Ion:129 Resp: 6799  
 Ion Ratio Lower Upper  
 129 100  
 127 75.3 55.4 103.0



#51  
 1,2-Dibromoethane  
 Concen: 2.297 ug/L  
 RT: 8.40 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Tgt Ion:107 Resp: 5049  
 Ion Ratio Lower Upper  
 107 100  
 109 96.1 65.7 121.9  
 188 0.0 3.9 5.9#





#52

Chlorobenzene

Concen: 2.342 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

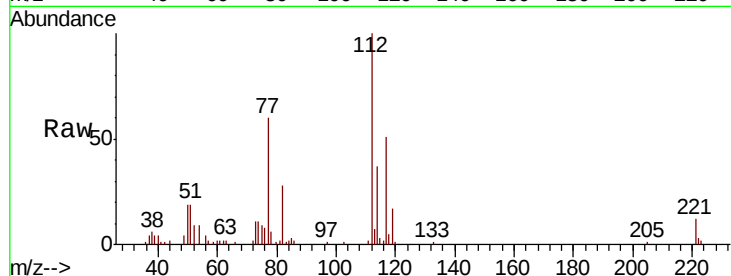
Tgt Ion: 112 Resp: 17766

Ion Ratio Lower Upper

112 100

77 59.8 45.3 67.9

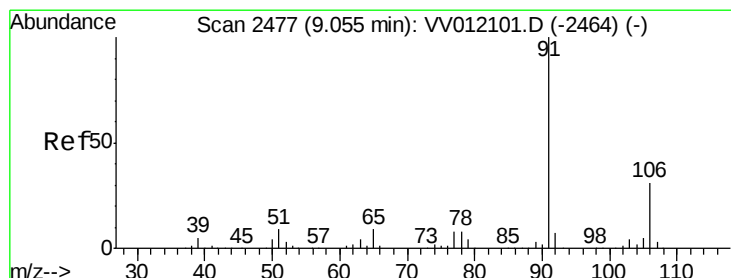
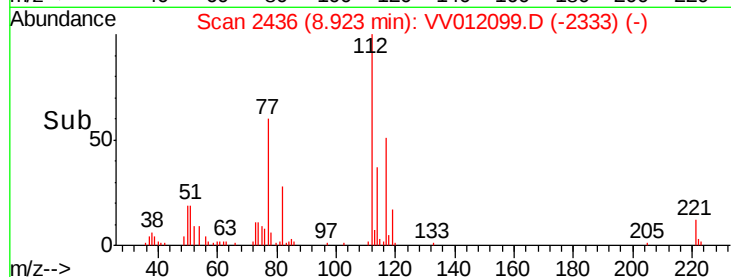
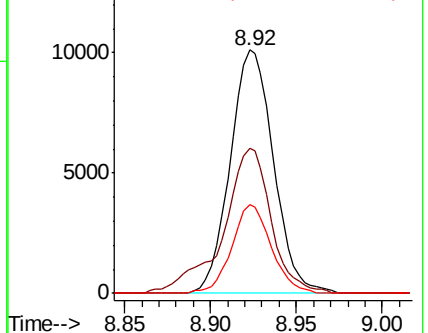
114 36.6 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 2.194 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012099.D

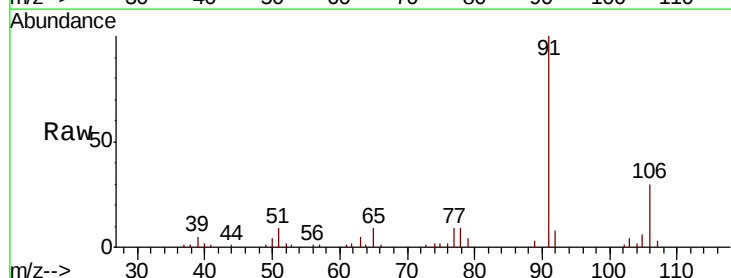
Acq: 03 Aug 2019 09:37

Tgt Ion: 91 Resp: 29435

Ion Ratio Lower Upper

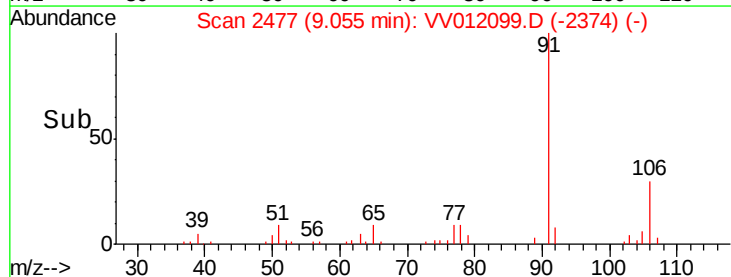
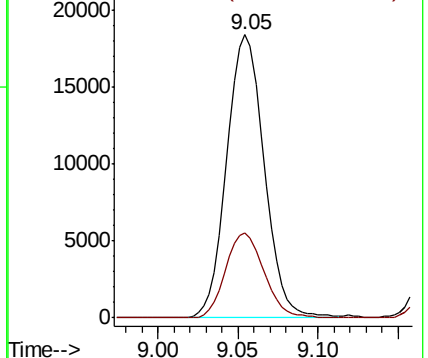
91 100

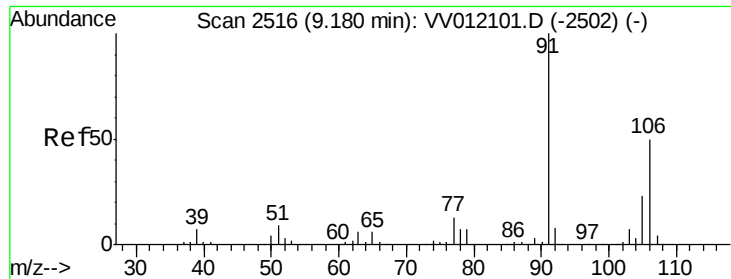
106 30.1 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 2.214 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

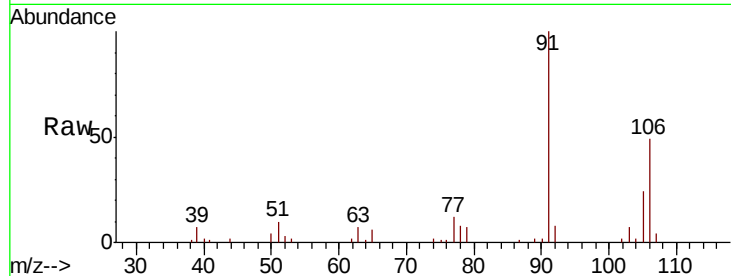
VSTD2.561

Tgt Ion:106 Resp: 11185

Ion Ratio Lower Upper

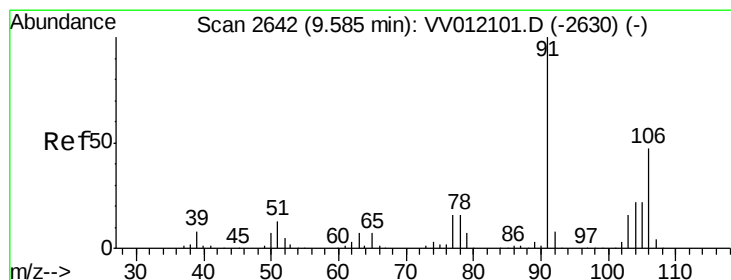
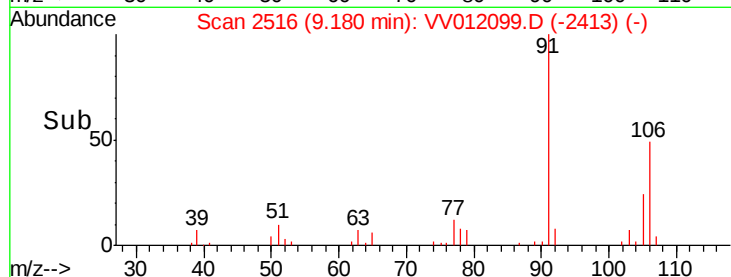
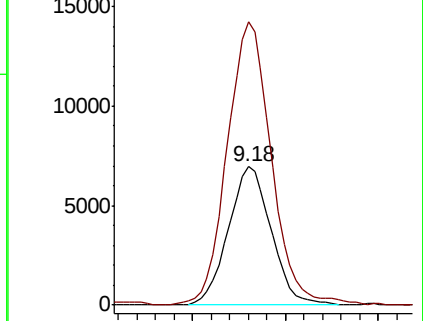
106 100

91 204.5 139.6 259.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 2.182 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012099.D

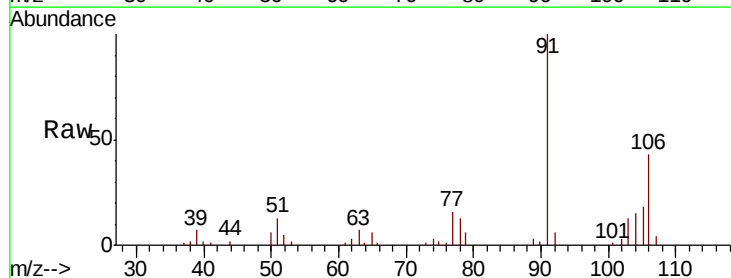
Acq: 03 Aug 2019 09:37

Tgt Ion:106 Resp: 10778

Ion Ratio Lower Upper

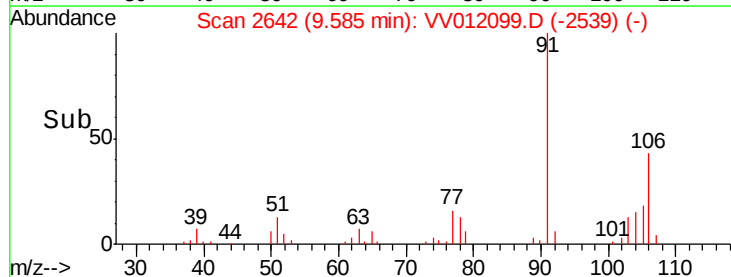
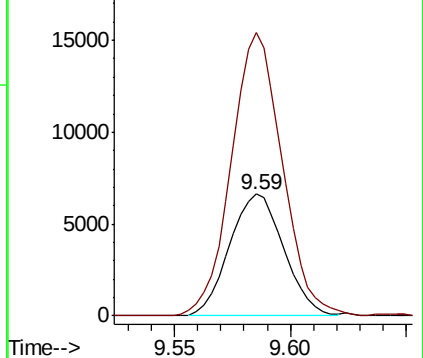
106 100

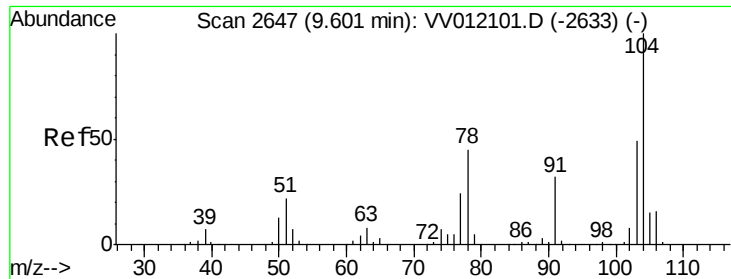
91 232.7 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Styrene

Concen: 2.158 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

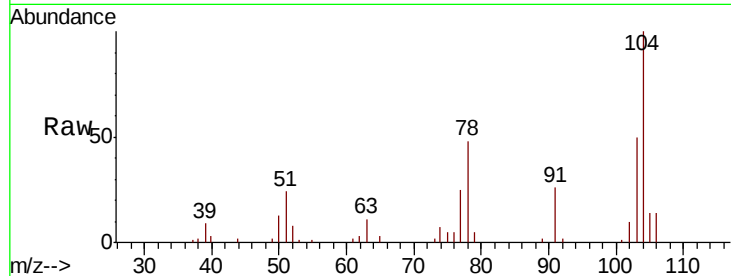
VSTD2.561

Tgt Ion:104 Resp: 17917

Ion Ratio Lower Upper

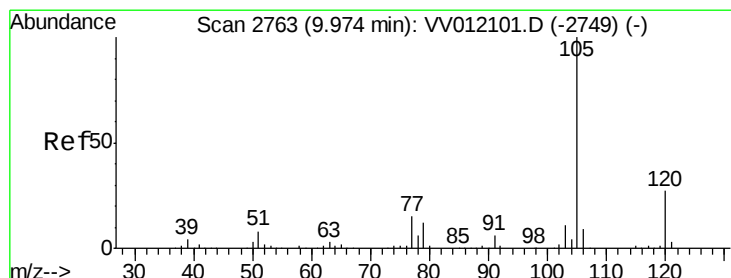
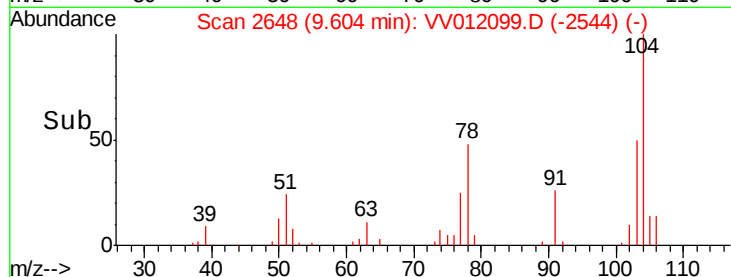
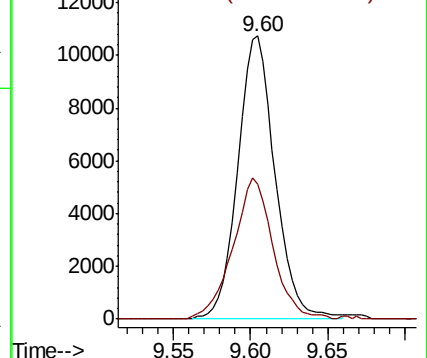
104 100

78 47.8 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#57

Isopropylbenzene

Concen: 2.240 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

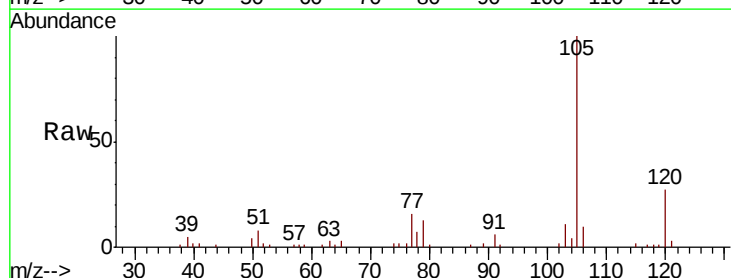
Tgt Ion:105 Resp: 29680

Ion Ratio Lower Upper

105 100

120 27.6 21.4 32.0

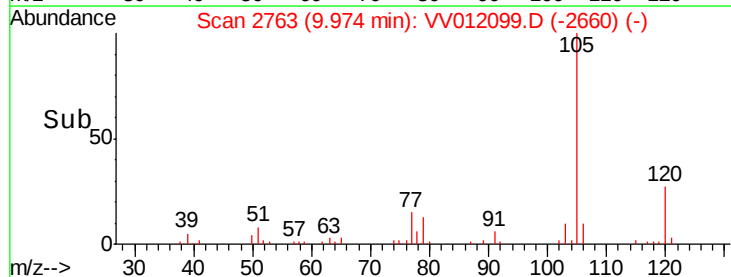
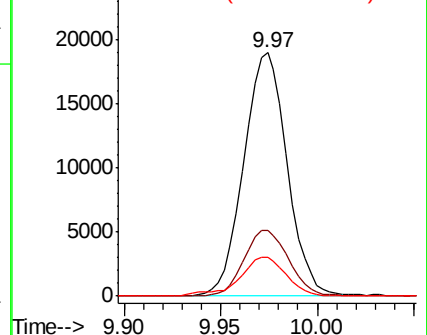
77 16.9 12.1 18.1

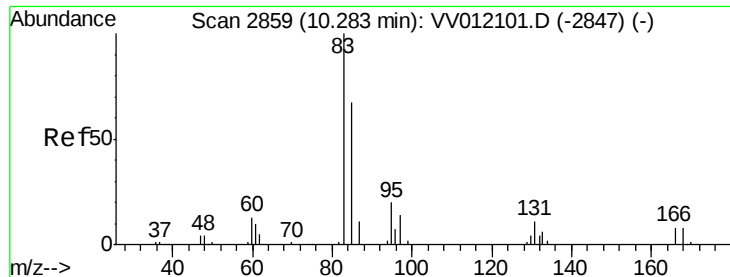


Abundance Ion 105.00 (104.70 to 105.70): V

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: 2.100 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

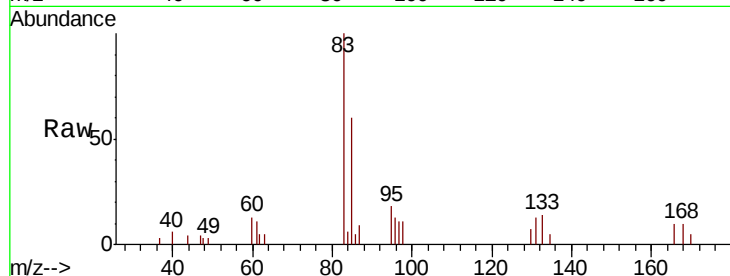
Tgt Ion: 83 Resp: 6292

Ion Ratio Lower Upper

83 100

85 60.1 47.2 87.6

131 12.9 9.6 14.4

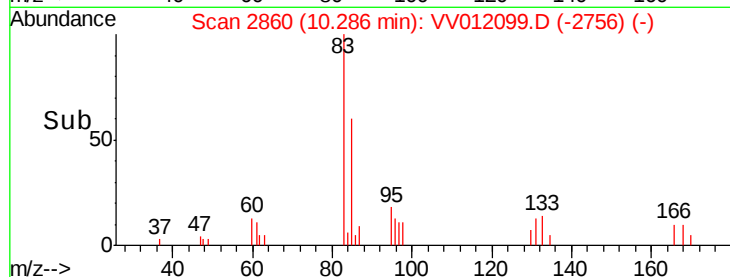


Abundance Ion 83.00 (82.70 to 83.70): VV012101.D (-2847) (-)

Ion 85.00 (84.70 to 85.70): VV012101.D (-2847) (-)

Ion 131.00 (130.70 to 131.70): VV012101.D (-2847) (-)

Time-->

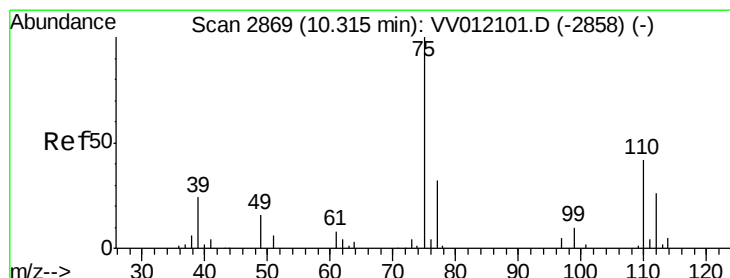


Abundance Ion 83.00 (82.70 to 83.70): VV012101.D (-2847) (-)

Ion 85.00 (84.70 to 85.70): VV012101.D (-2847) (-)

Ion 131.00 (130.70 to 131.70): VV012101.D (-2847) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 2.100 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012099.D

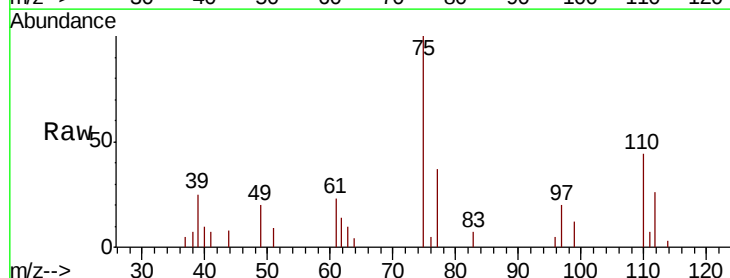
Acq: 03 Aug 2019 09:37

Tgt Ion: 75 Resp: 4792

Ion Ratio Lower Upper

75 100

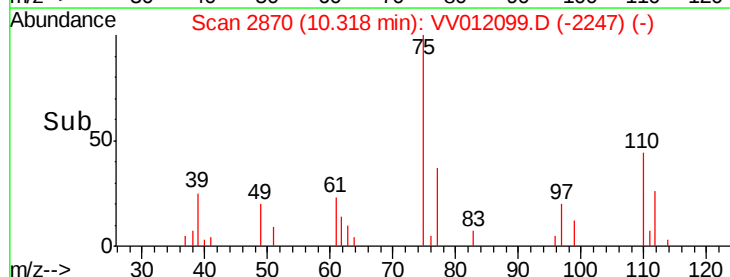
77 35.3 26.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VV012101.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012101.D (-2858) (-)

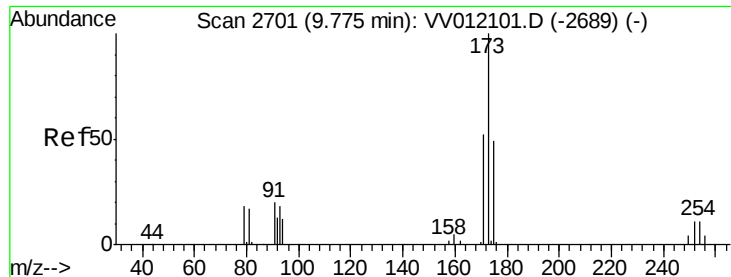
Time-->



Abundance Ion 75.00 (74.70 to 75.70): VV012101.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012101.D (-2858) (-)

Time-->



#62

Bromoform

Concen: 2.568 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

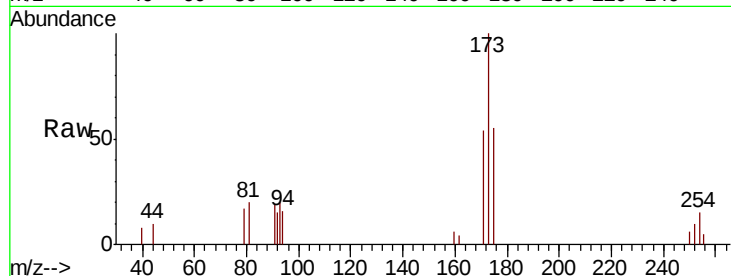
Tgt Ion:173 Resp: 4314

Ion Ratio Lower Upper

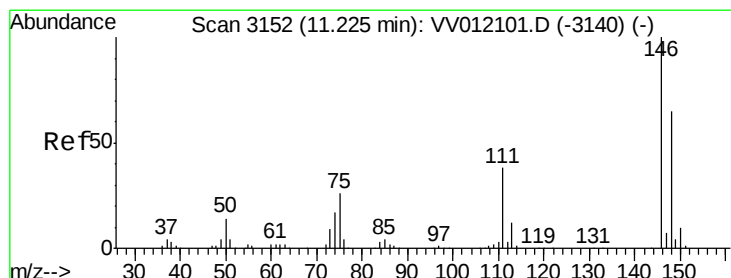
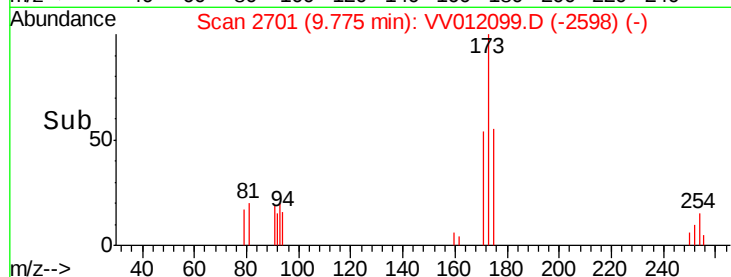
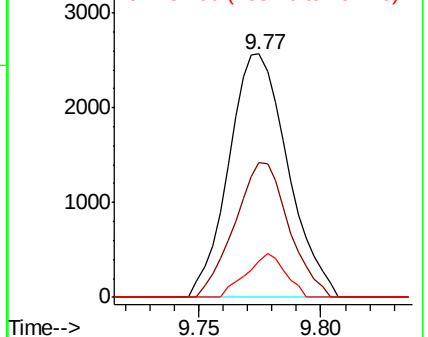
173 100

175 50.4 37.9 56.9

254 11.8 8.2 12.4



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



#63

1,3-Dichlorobenzene

Concen: 2.345 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

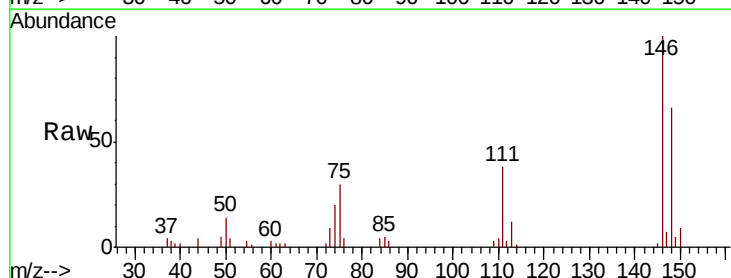
Tgt Ion:146 Resp: 15388

Ion Ratio Lower Upper

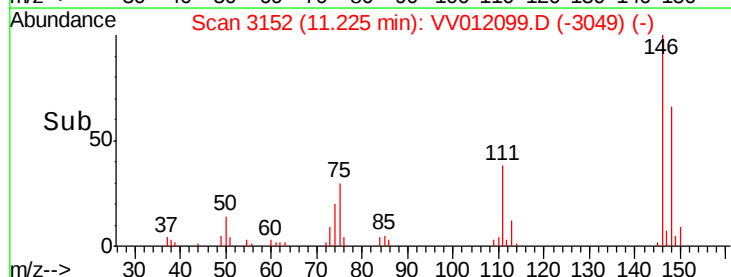
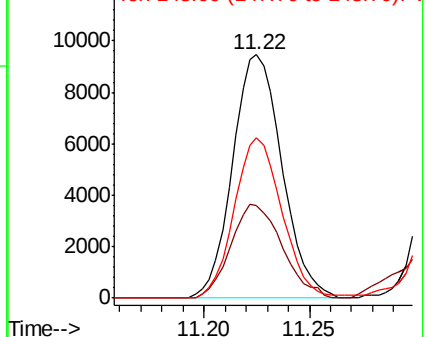
146 100

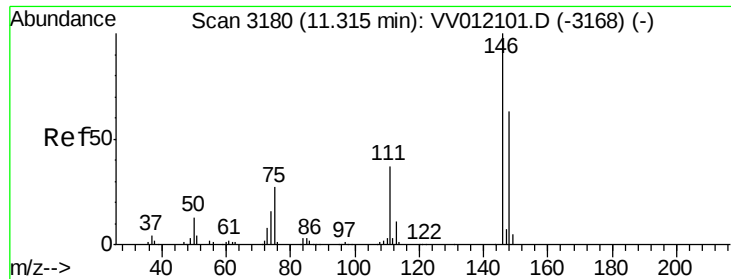
111 37.9 26.7 49.5

148 65.8 45.4 84.4



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

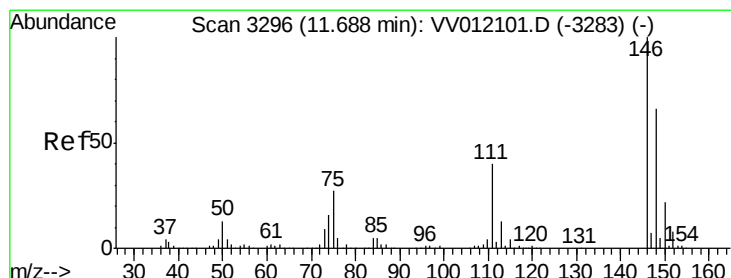
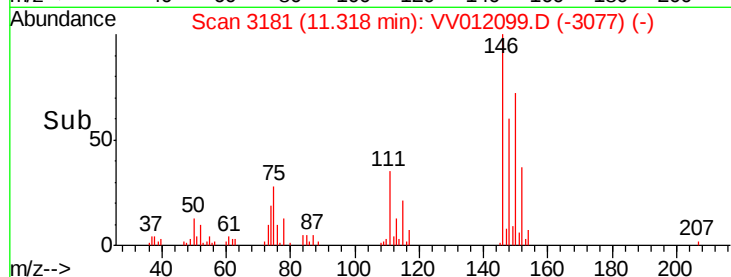
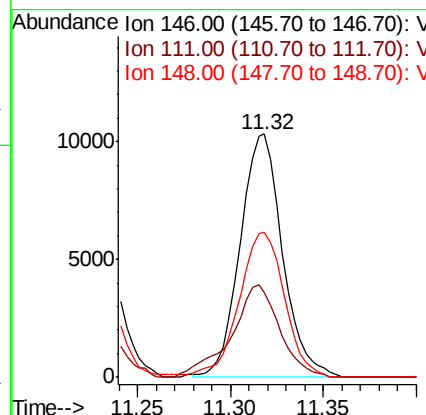
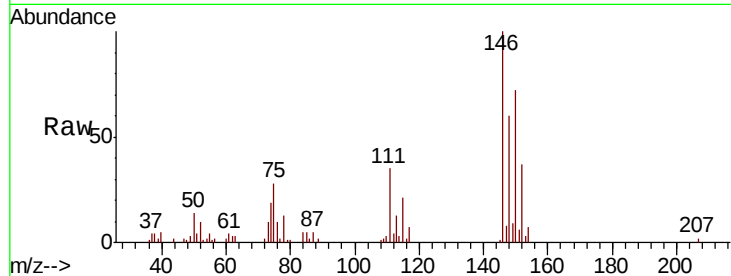




#64  
 1,4-Dichlorobenzene  
 Concen: 2.468 ug/L  
 RT: 11.32 min Scan# 3181  
 Delta R.T. 0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

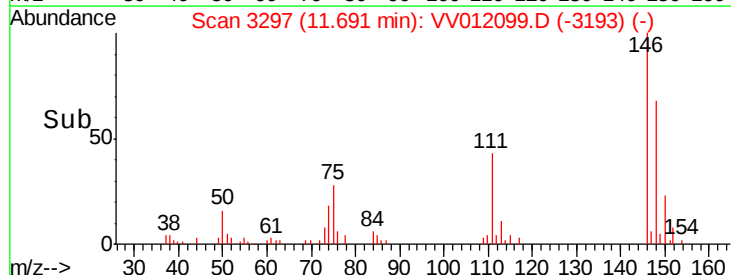
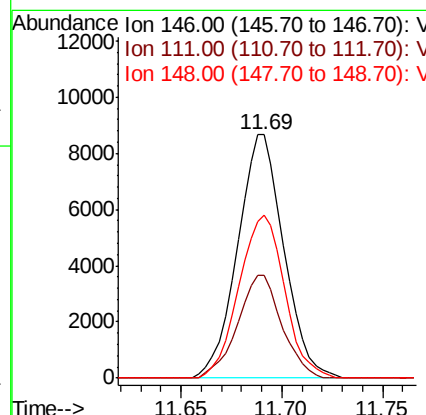
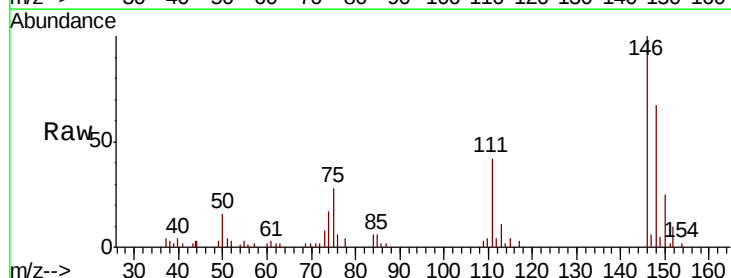
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD2.561

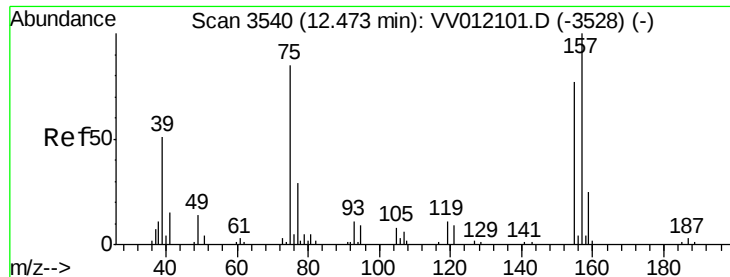
Tgt Ion:146 Resp: 16403  
 Ion Ratio Lower Upper  
 146 100  
 111 35.0 25.9 48.1  
 148 59.6 44.4 82.4



#65  
 1,2-Dichlorobenzene  
 Concen: 2.250 ug/L  
 RT: 11.69 min Scan# 3297  
 Delta R.T. 0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Tgt Ion:146 Resp: 13902  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 32.2 48.4  
 148 66.8 52.6 78.8

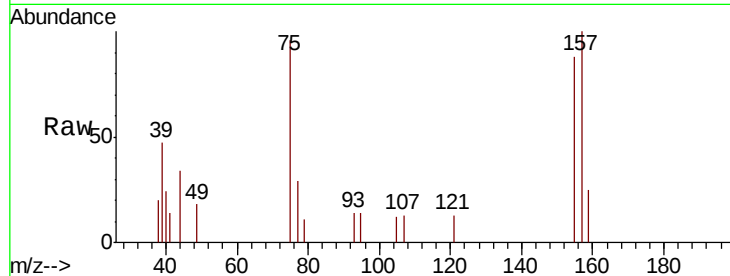




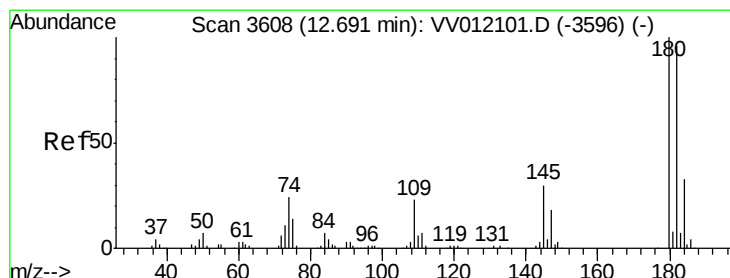
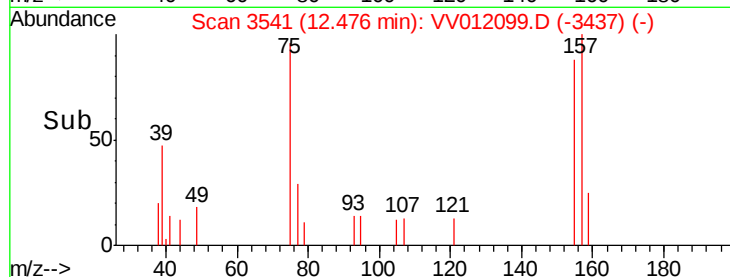
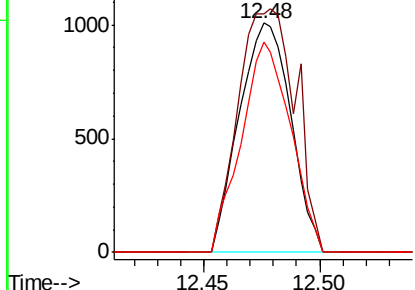
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.476 ug/L  
 RT: 12.48 min Scan# 3541  
 Delta R.T. 0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD2.561

Tgt Ion: 75 Resp: 1552  
 Ion Ratio Lower Upper  
 75 100  
 157 104.0 94.4 141.6  
 155 92.0 72.6 108.8



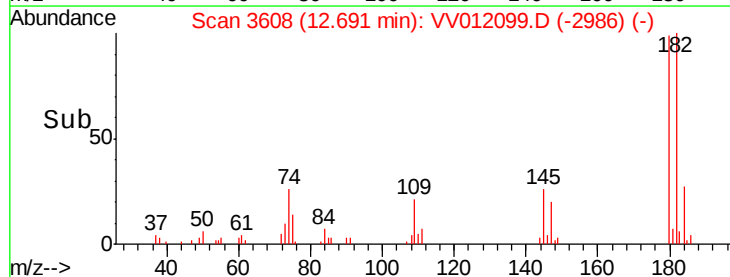
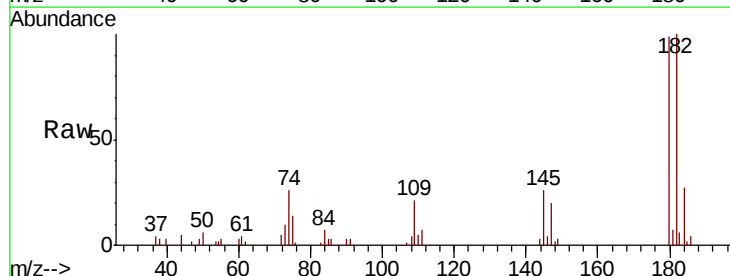
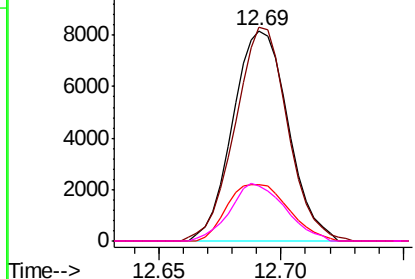
Abundance Ion 75.00 (74.70 to 75.70): VV012099.D (-2986) (-)  
 Ion 157.00 (156.70 to 157.70): VV012099.D (-2986) (-)  
 Ion 155.00 (154.70 to 155.70): VV012099.D (-2986) (-)

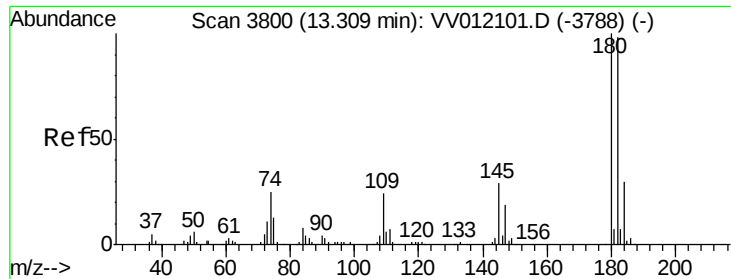


#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.561 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Tgt Ion: 180 Resp: 12848  
 Ion Ratio Lower Upper  
 180 100  
 182 96.6 77.2 115.8  
 184 30.0 25.4 38.2  
 145 27.4 23.6 35.4

Abundance Ion 180.00 (179.70 to 180.70): VV012099.D (-2986) (-)  
 Ion 182.00 (181.70 to 182.70): VV012099.D (-2986) (-)  
 Ion 184.00 (183.70 to 184.70): VV012099.D (-2986) (-)  
 Ion 145.00 (144.70 to 145.70): VV012099.D (-2986) (-)





#68

1,2,4-trichlorobenzene

Concen: 2.359 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. -0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.561

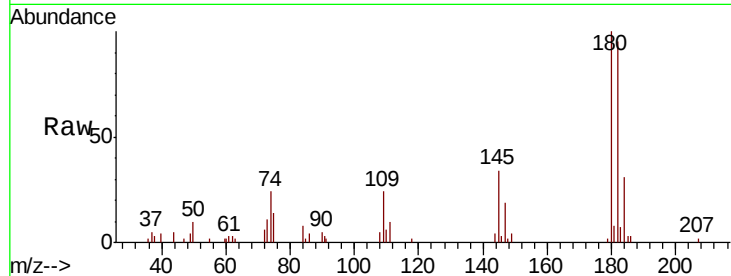
Tgt Ion:180 Resp: 9656

Ion Ratio Lower Upper

180 100

182 96.8 77.2 115.8

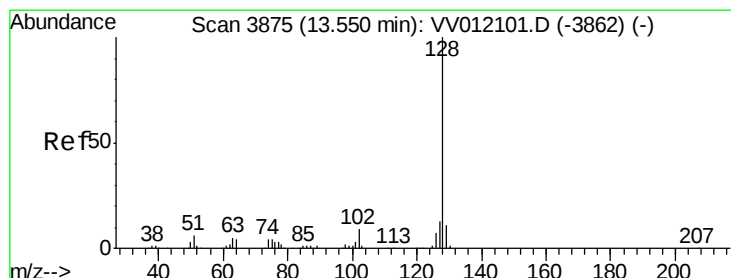
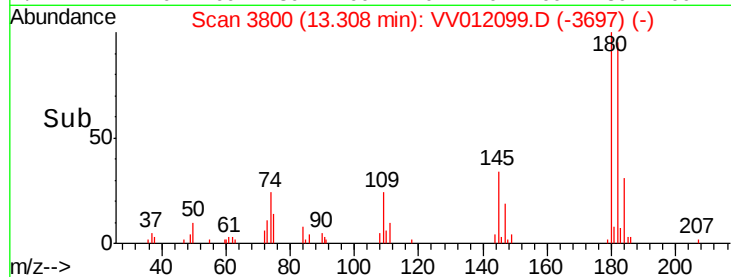
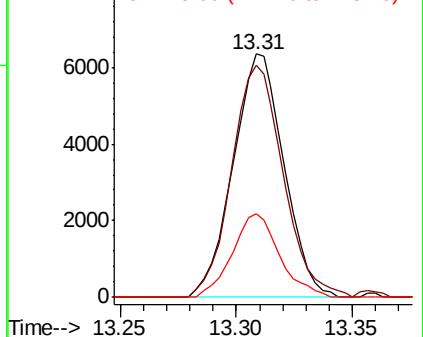
145 31.9 23.4 35.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 1.870 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012099.D

Acq: 03 Aug 2019 09:37

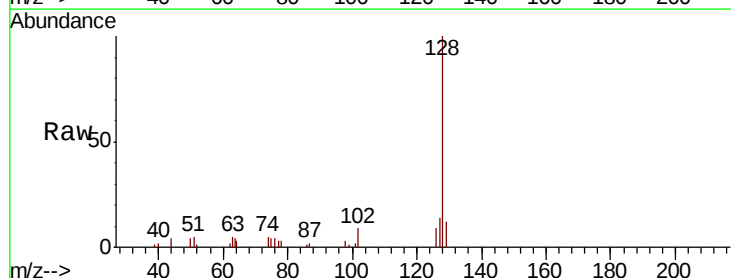
Tgt Ion:128 Resp: 15432

Ion Ratio Lower Upper

128 100

129 9.9 8.6 13.0

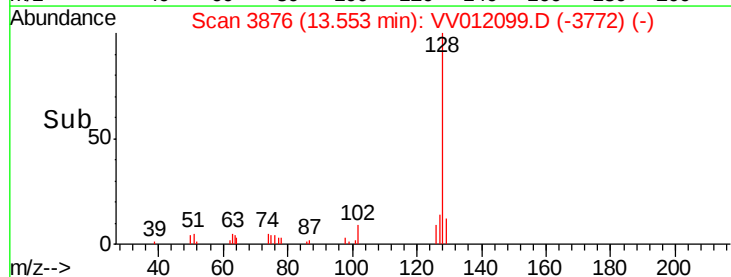
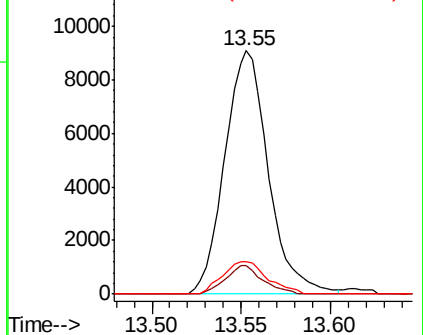
127 13.8 10.6 15.8

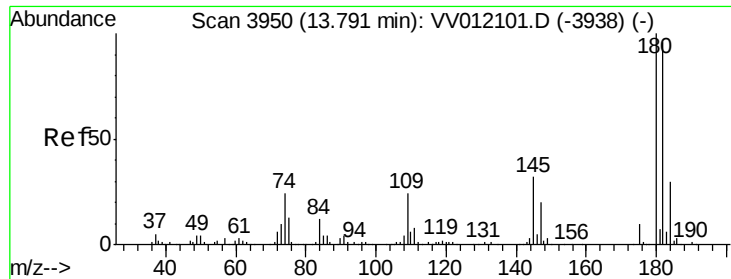


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.377 ug/L  
 RT: 13.79 min Scan# 3950  
 Delta R.T. -0.00 min  
 Lab File: VV012099.D  
 Acq: 03 Aug 2019 09:37

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.561

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 9063  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.6  | 75.8  | 113.6 |
| 145      | 32.8  | 25.3  | 37.9  |

