

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102120\  
 Data File : VV019062.D  
 Acq On : 21 Oct 2020 20:29  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

Quant Time: Oct 22 06:11:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 22 06:00:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 248926   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 240209   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 131293   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 103945   | 50.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 101.46% |
| 7) Chloroethane-d5             | 1.58    | 69    | 89774    | 55.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 110.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 208946   | 54.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 108.04% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 137930   | 96.57    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.57%  |
| 24) Chloroform-d               | 4.38    | 84    | 181970   | 49.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.86%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 125752   | 51.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.92% |
| 32) Benzene-d6                 | 5.07    | 84    | 332213   | 47.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.74%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 105378   | 47.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.00%  |
| 41) Toluene-d8                 | 7.34    | 98    | 345713   | 54.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.92% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 58101    | 53.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 106.04% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 104241   | 125.16   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 125.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 129868   | 49.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.84%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 126103   | 47.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.42%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 92362  | 42.850  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 124355 | 51.156  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 129624 | 55.170  | ug/L 97  |
| 6) Bromomethane                | 1.53 | 94  | 79184  | 55.239  | ug/L 98  |
| 8) Chloroethane                | 1.60 | 64  | 83312  | 59.122  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 167826 | 54.118  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 89067  | 55.155  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 90946  | 55.575  | ug/L 92  |
| 13) Acetone                    | 2.20 | 43  | 122040 | 116.935 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 272365 | 48.852  | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 131141 | 61.169  | ug/L 98  |
| 16) Methylene chloride         | 2.52 | 84  | 112063 | 57.081  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 97454  | 53.646  | ug/L 94  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 340750 | 59.369  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 197745 | 55.953  | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 93421  | 48.521  | ug/L 98  |
| 22) 2-Butanone                 | 4.00 | 43  | 141942 | 100.028 | ug/L 100 |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

Quant Time: Oct 22 06:11:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 22 06:00:52 2020  
 Response via : Initial Calibration

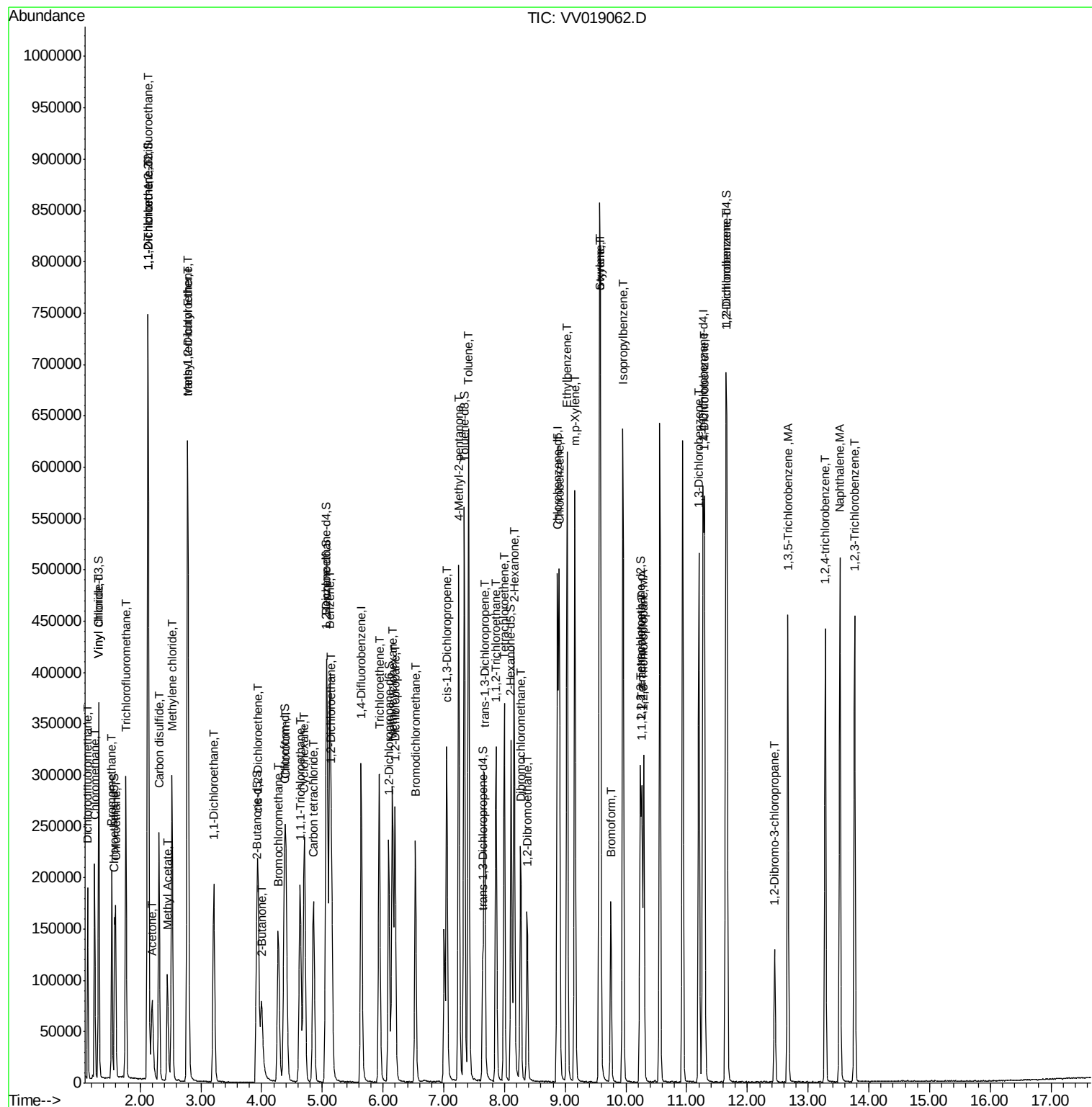
| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 49739    | 50.021  | ug/L  | 95       |
| 25) Chloroform                  | 4.40  | 83   | 179513   | 50.513  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 156580   | 53.935  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.70  | 56   | 125324   | 43.902  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 153588   | 51.529  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.86  | 117  | 131727   | 51.926  | ug/L  | 100      |
| 33) Benzene                     | 5.13  | 78   | 365902   | 49.692  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 99077    | 46.659  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.16  | 83   | 112400   | 43.706  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 98315    | 49.876  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.53  | 83   | 149088   | 58.992  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 176957   | 59.744  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 332049   | 122.150 | ug/L  | 98       |
| 42) Toluene                     | 7.41  | 91   | 433101   | 56.948  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 164586   | 57.341  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 99846    | 54.455  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 79652    | 53.226  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 270768   | 125.626 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.27  | 129  | 110319   | 56.831  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 106008   | 55.476  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 242453   | 48.899  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.03  | 91   | 406743   | 49.405  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 151620   | 49.433  | ug/L  | 100      |
| 54) o-xylene                    | 9.56  | 106  | 149847   | 51.066  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 269674   | 52.249  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 384789   | 49.950  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 125717   | 50.495  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 120095   | 50.332  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 74834    | 52.177  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 196682   | 48.323  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 201760   | 47.149  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 200310   | 48.779  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 30402    | 49.680  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 135272   | 49.475  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 129022   | 51.212  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 378531   | 52.943  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.76 | 180  | 132759   | 52.717  | ug/L  | 99       |

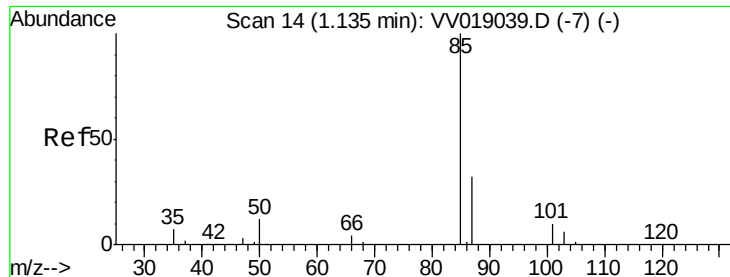
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV102120\  
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Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

Quant Time: Oct 22 06:11:14 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 22 06:00:52 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 42.850 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

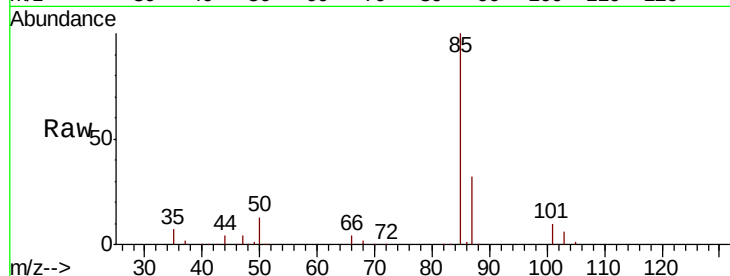
VSTD05069

Tot Ion: 85 Resp: 92362

Ion Ratio Lower Upper

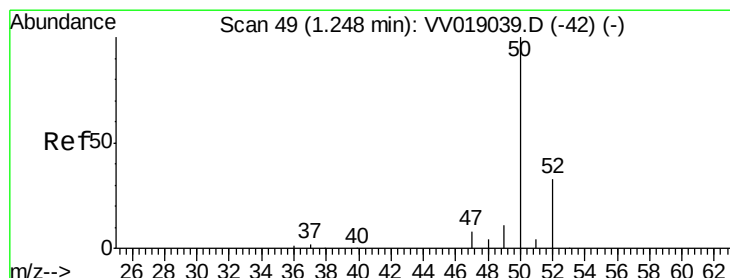
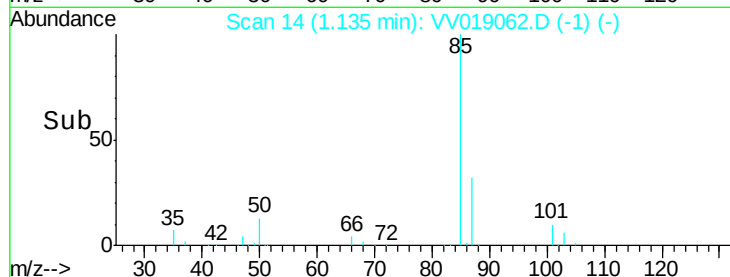
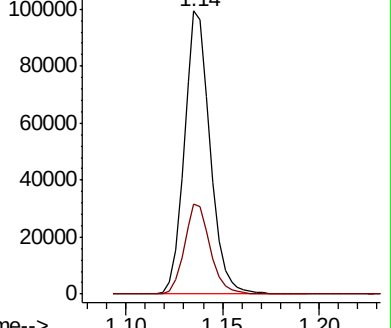
85 100

87 31.9 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV019039.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV019039.D (-7) (-)



#3

Chloromethane

Concen: 51.156 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019062.D

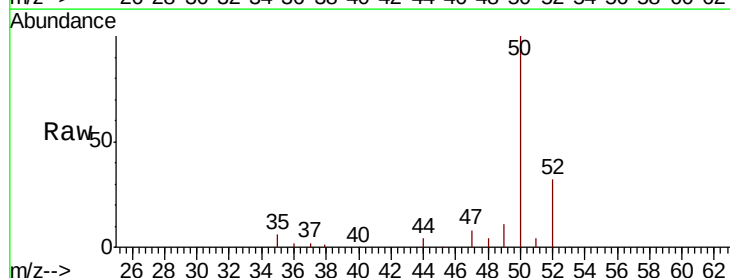
Acq: 21 Oct 2020 20:29

Tgt Ion: 50 Resp: 124355

Ion Ratio Lower Upper

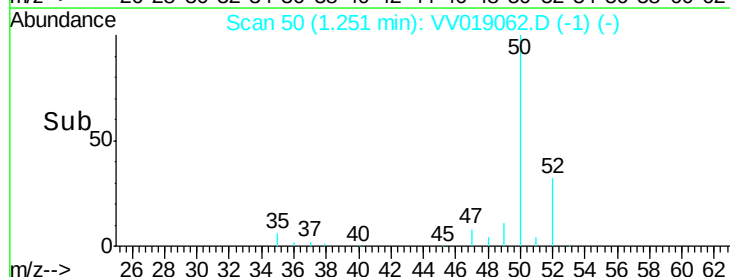
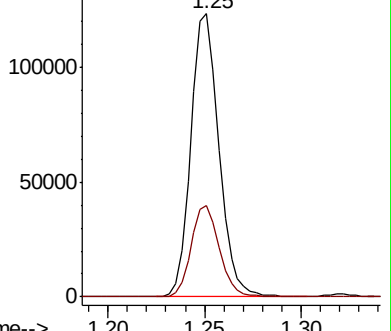
50 100

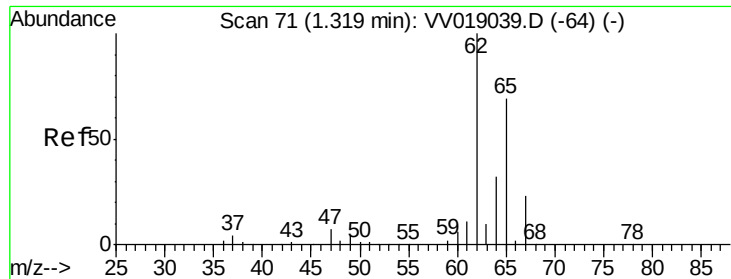
52 32.2 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VV019039.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019039.D (-42) (-)





#5

Vinyl chloride

Concen: 55.170 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

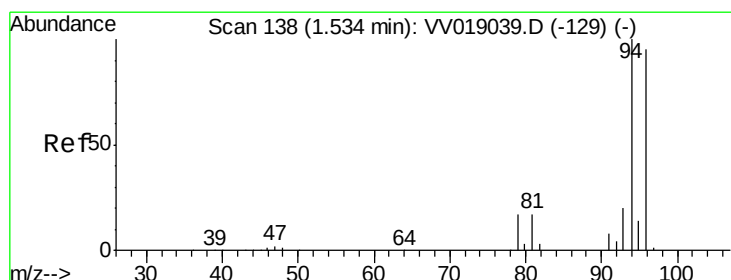
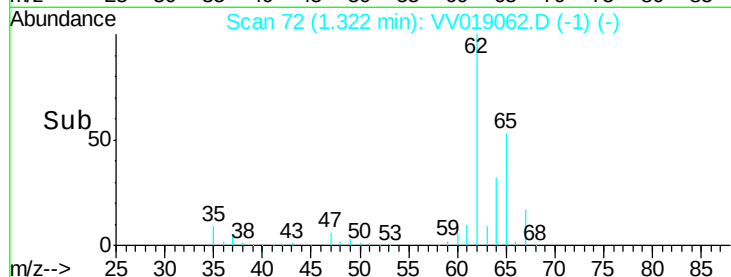
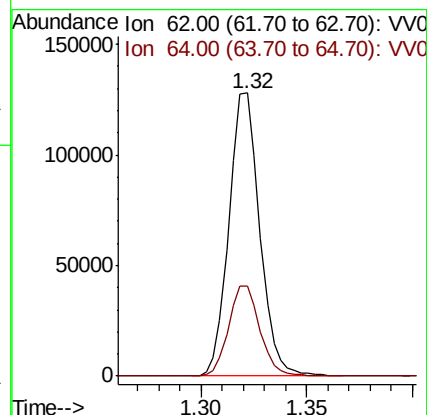
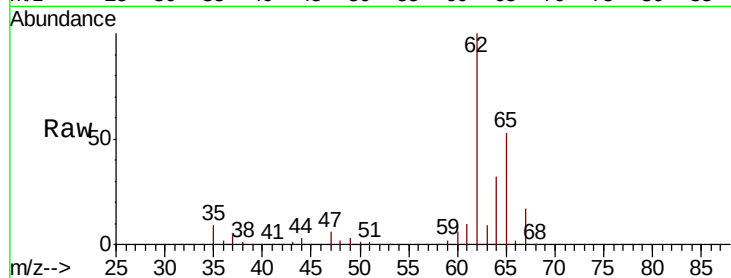
VSTD05069

Tot Ion: 62 Resp: 129624

Ion Ratio Lower Upper

62 100

64 31.8 23.2 43.2



#6

Bromomethane

Concen: 55.239 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019062.D

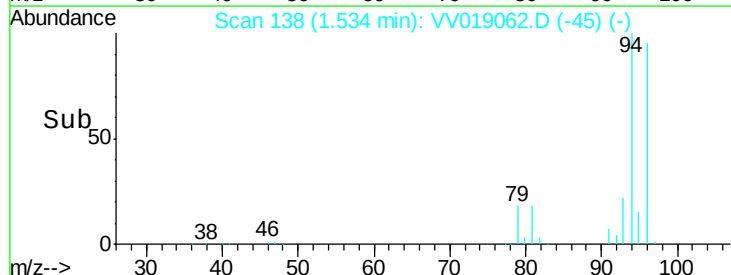
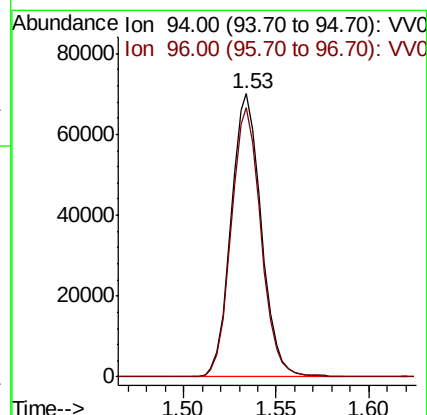
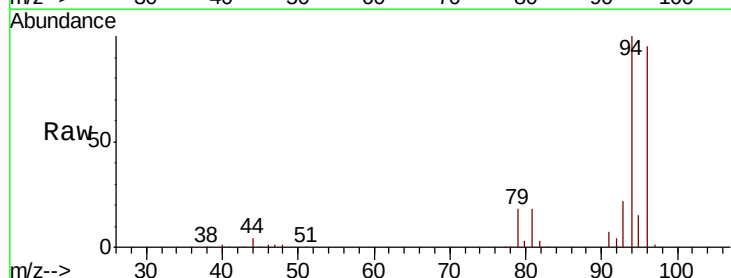
Acq: 21 Oct 2020 20:29

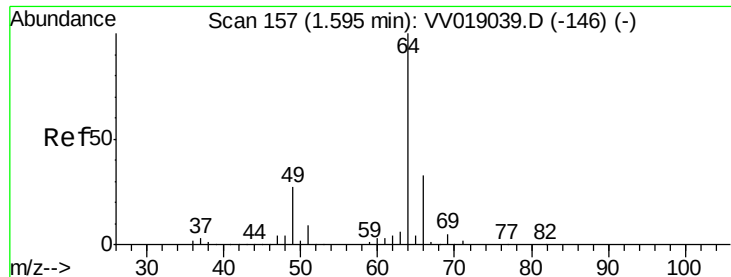
Tgt Ion: 94 Resp: 79184

Ion Ratio Lower Upper

94 100

96 95.1 65.3 121.3





#8

Chloroethane

Concen: 59.122 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

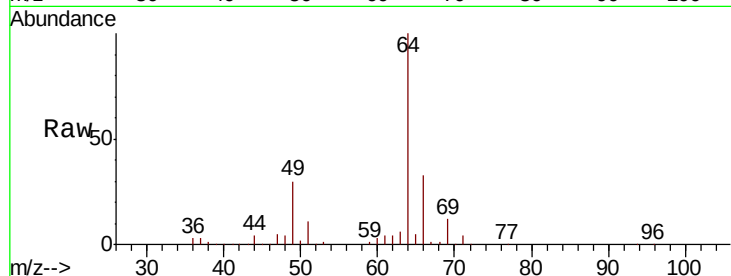
VSTD05069

Tot Ion: 64 Resp: 83312

Ion Ratio Lower Upper

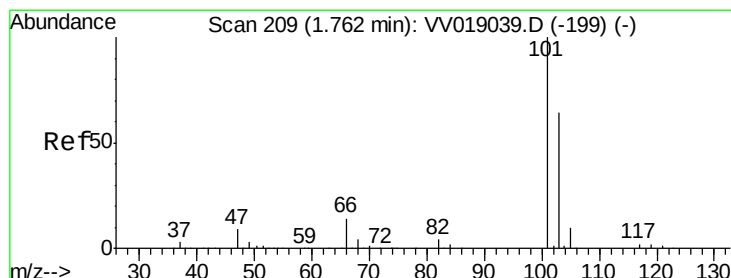
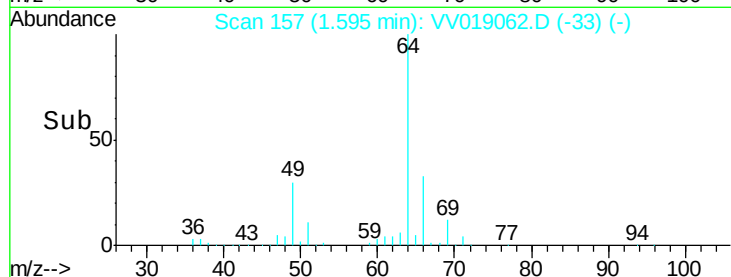
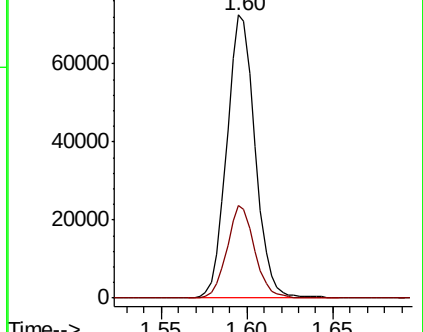
64 100

66 32.6 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VV019062.D (-33) (-)

Ion 66.00 (65.70 to 66.70): VV019062.D (-33) (-)



#9

Trichlorofluoromethane

Concen: 54.118 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019062.D

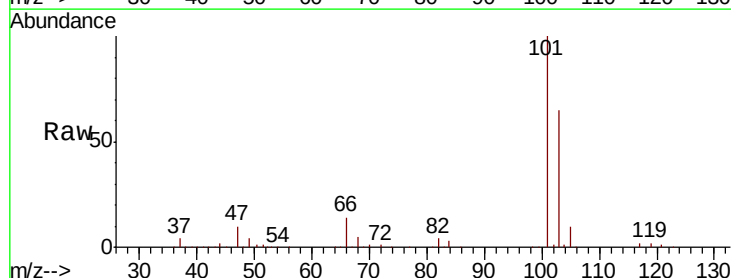
Acq: 21 Oct 2020 20:29

Tgt Ion: 101 Resp: 167826

Ion Ratio Lower Upper

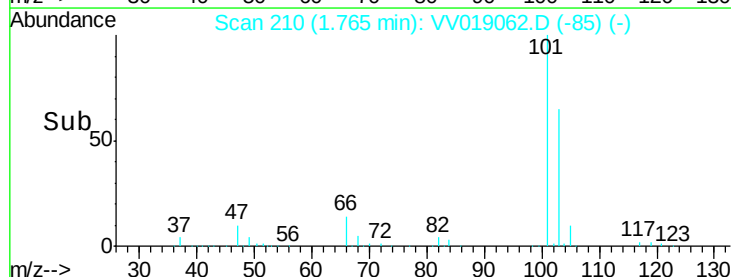
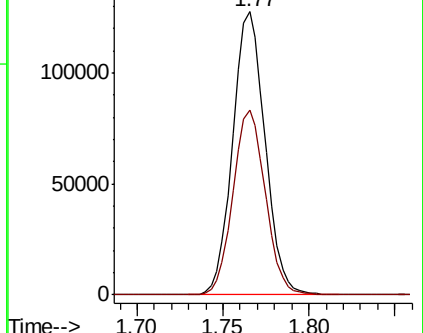
101 100

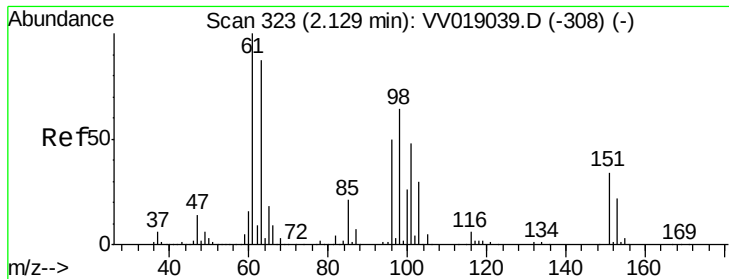
103 65.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV019062.D (-85) (-)

Ion 103.00 (102.70 to 103.70): VV019062.D (-85) (-)





#10

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

Concen: 55.155 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

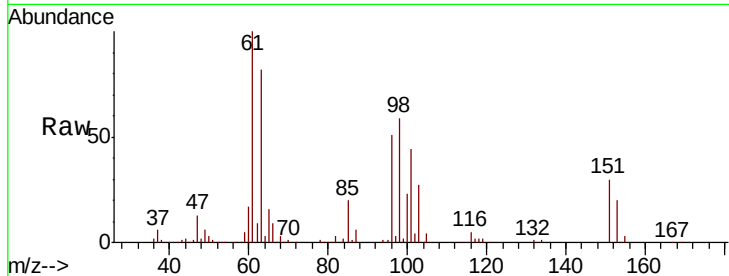
Tot Ion:101 Resp: 89067

Ion Ratio Lower Upper

101 100

85 44.7 35.0 52.4

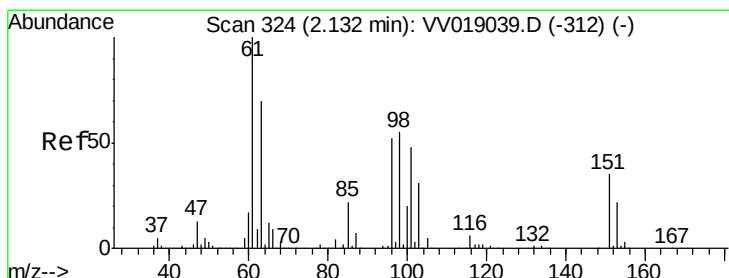
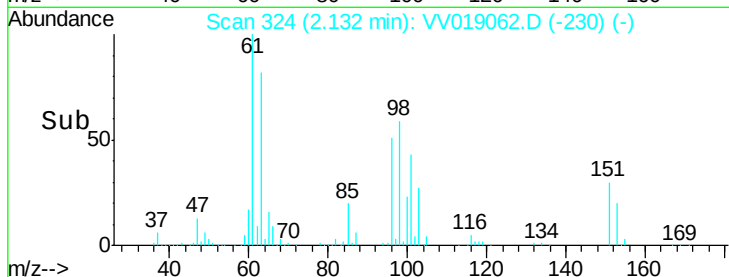
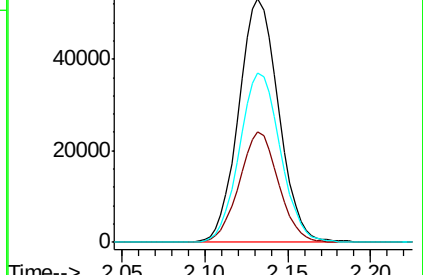
151 71.4 59.7 89.5



Abundance Ion 101.00 (100.70 to 101.70): VV019039.D (-308) (-)

Ion 85.00 (84.70 to 85.70): VV019039.D (-308) (-)

Ion 151.00 (150.70 to 151.70): VV019039.D (-308) (-)



#12

1,1-Dichloroethene

Concen: 55.575 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

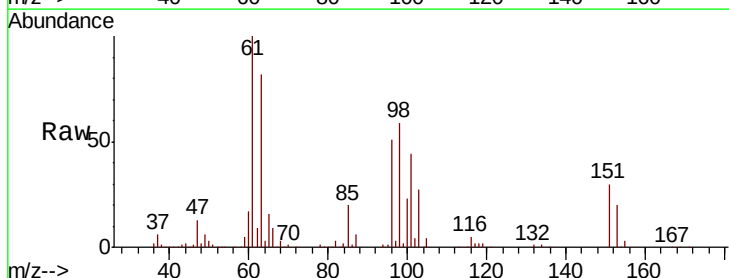
Tgt Ion: 96 Resp: 90946

Ion Ratio Lower Upper

96 100

61 196.7 133.5 247.9

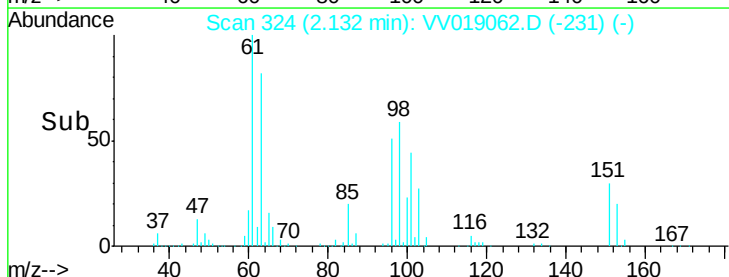
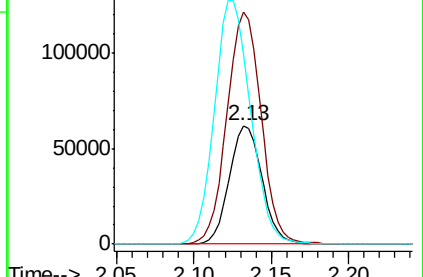
63 161.2 102.1 189.7

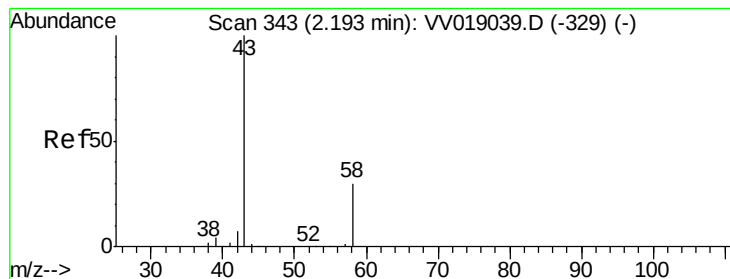


Abundance Ion 96.00 (95.70 to 96.70): VV019039.D (-312) (-)

Ion 61.00 (60.70 to 61.70): VV019039.D (-312) (-)

Ion 63.00 (62.70 to 63.70): VV019039.D (-312) (-)





#13

Acetone

Concen: 116.935 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

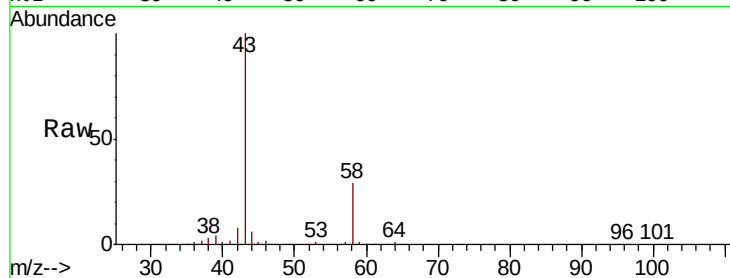
VSTD05069

Tot Ion: 43 Resp: 122040

Ion Ratio Lower Upper

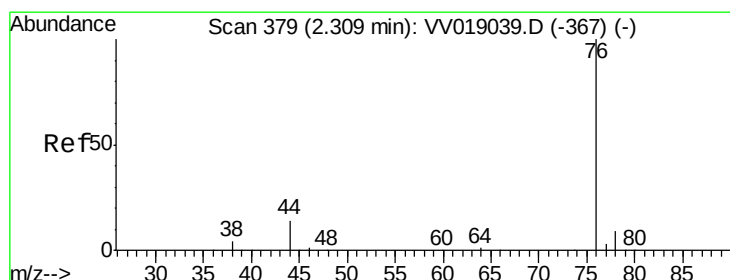
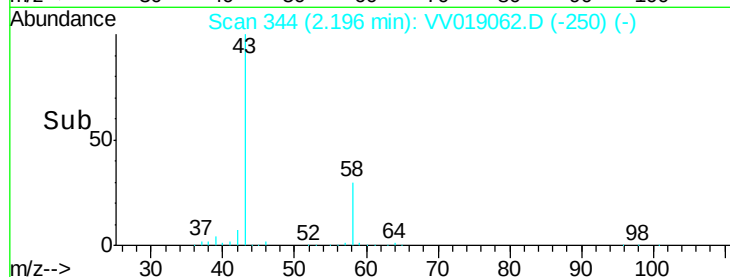
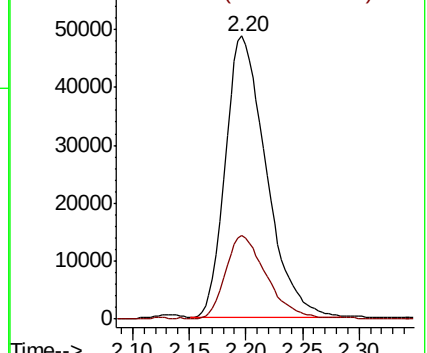
43 100

58 29.8 0.0 58.8



Abundance Ion 43.00 (42.70 to 43.70): VV019039.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019039.D (-329) (-)



#14

Carbon disulfide

Concen: 48.852 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019062.D

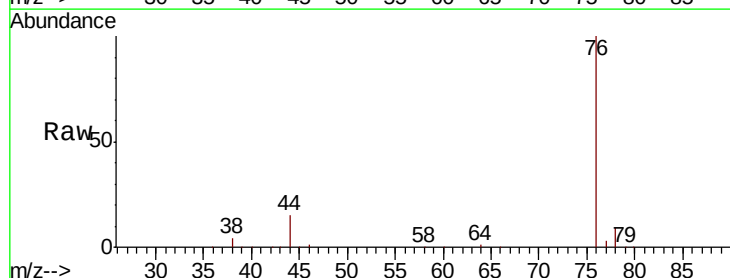
Acq: 21 Oct 2020 20:29

Tgt Ion: 76 Resp: 272365

Ion Ratio Lower Upper

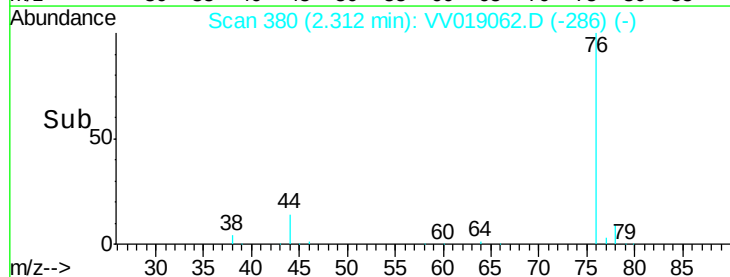
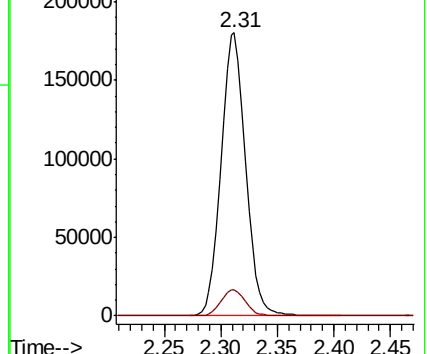
76 100

78 9.3 7.4 11.2

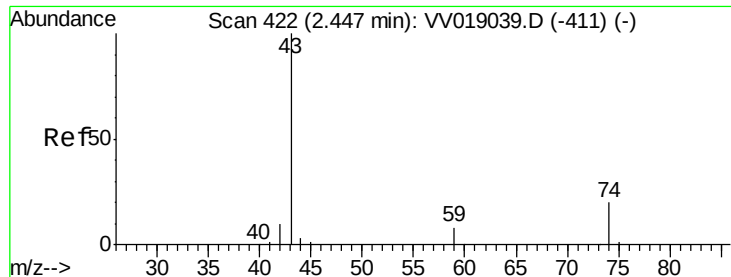


Abundance Ion 76.00 (75.70 to 76.70): VV019039.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV019039.D (-367) (-)



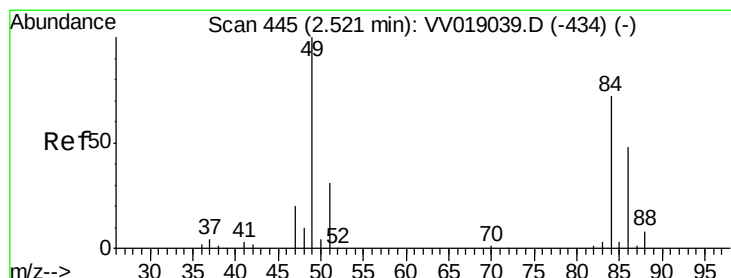
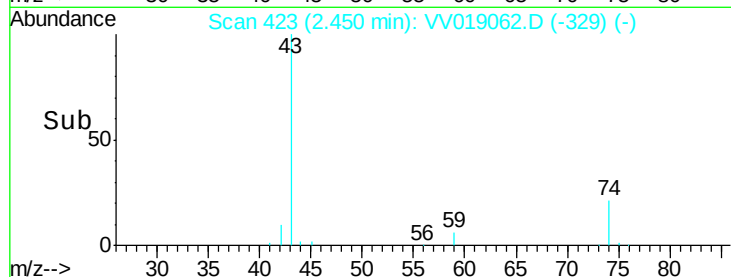
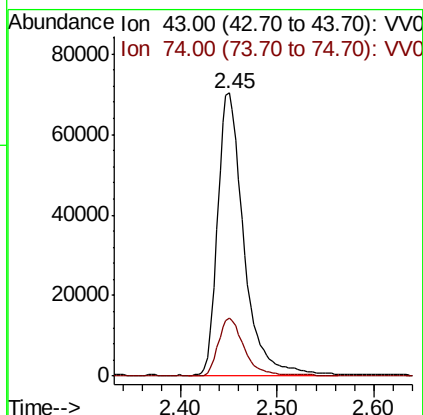
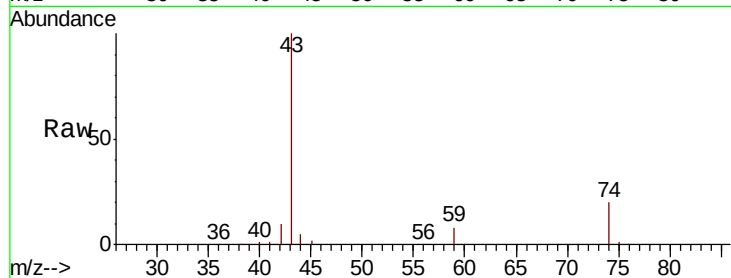




#15  
Methyl Acetate  
Concen: 61.169 ug/L  
RT: 2.45 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

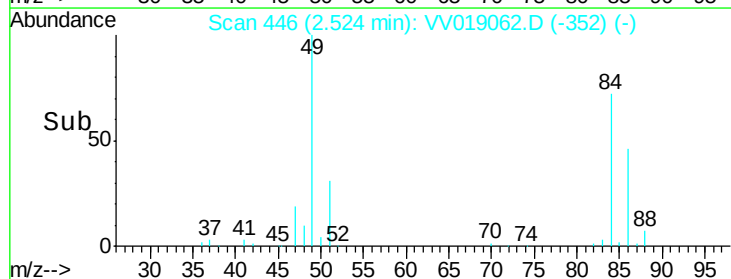
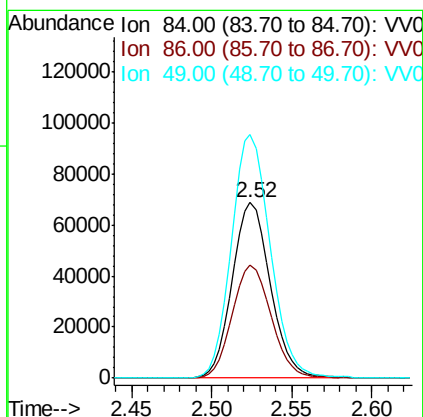
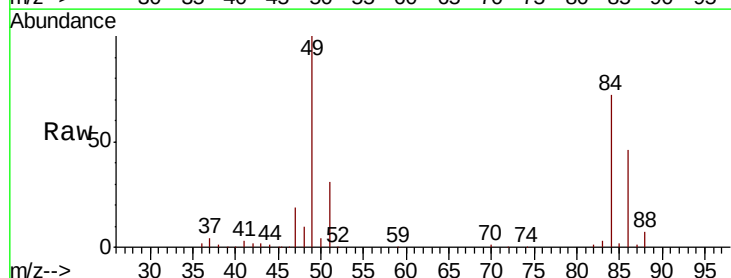
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

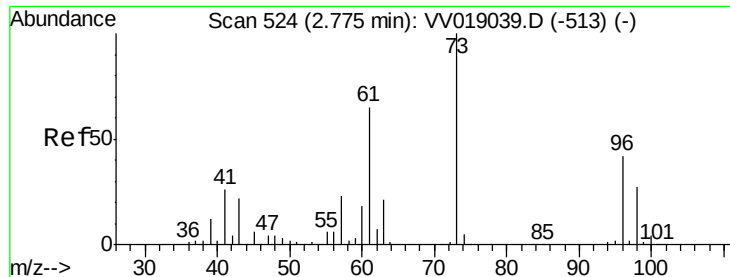
Tot Ion: 43 Resp: 131141  
Ion Ratio Lower Upper  
43 100  
74 20.5 17.0 25.6



#16  
Methylene chloride  
Concen: 57.081 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion: 84 Resp: 112063  
Ion Ratio Lower Upper  
84 100  
86 64.2 46.6 86.6  
49 138.9 96.1 178.5

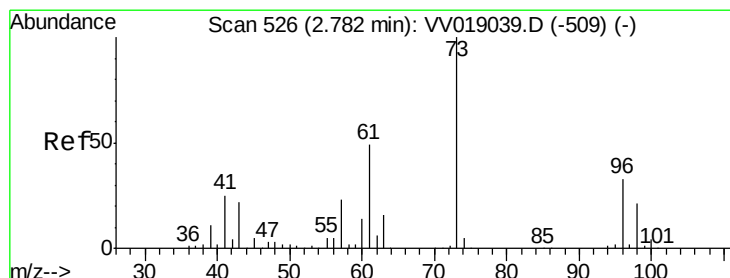
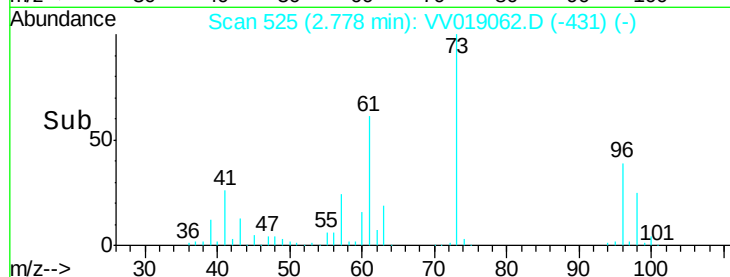
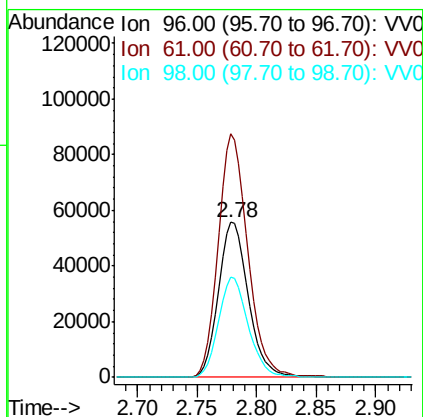
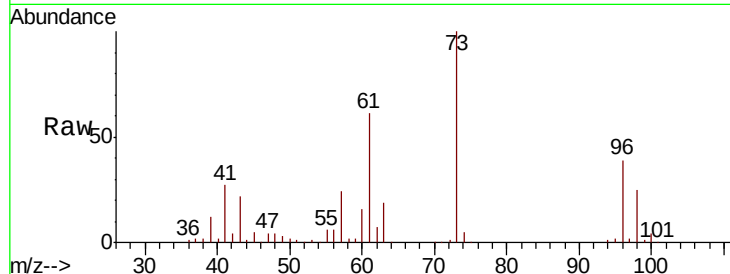




#17  
trans-1,2-Dichloroethene  
Concen: 53.646 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

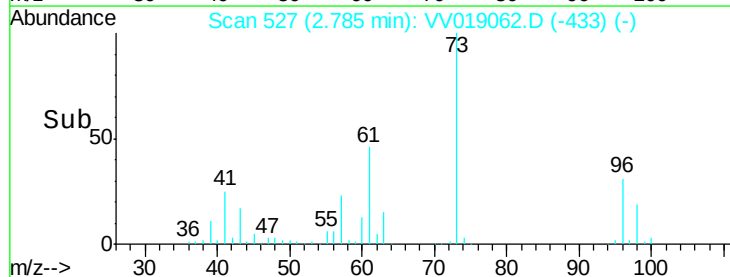
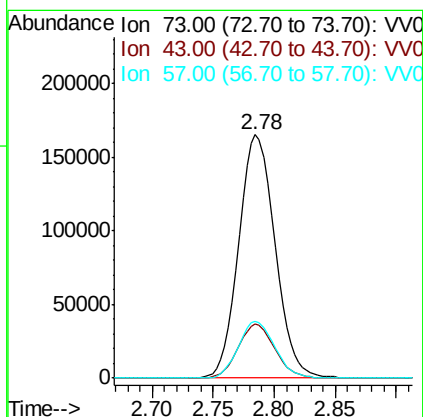
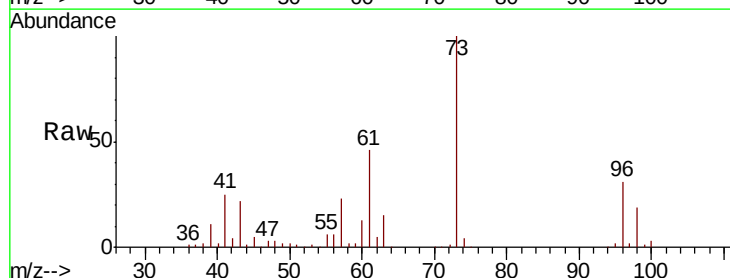
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

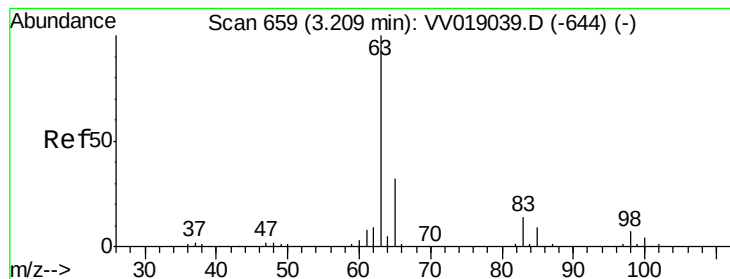
Tot Ion: 96 Resp: 97454  
Ion Ratio Lower Upper  
96 100  
61 156.9 102.8 190.8  
98 64.5 44.0 81.6



#18  
Methyl tert-butyl Ether  
Concen: 59.369 ug/L  
RT: 2.78 min Scan# 527  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion: 73 Resp: 340750  
Ion Ratio Lower Upper  
73 100  
43 22.1 16.9 25.3  
57 23.4 18.3 27.5





#19

1,1-Dichloroethane

Concen: 55.953 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

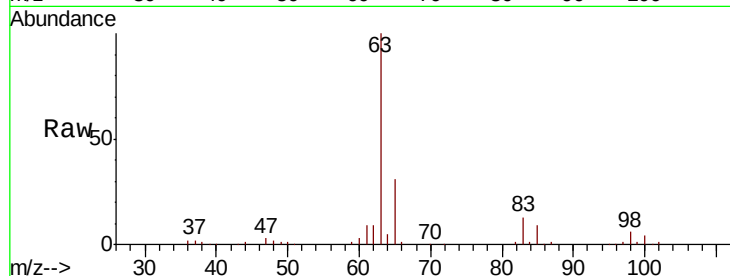
Tot Ion: 63 Resp: 197745

Ion Ratio Lower Upper

63 100

65 31.1 22.5 41.9

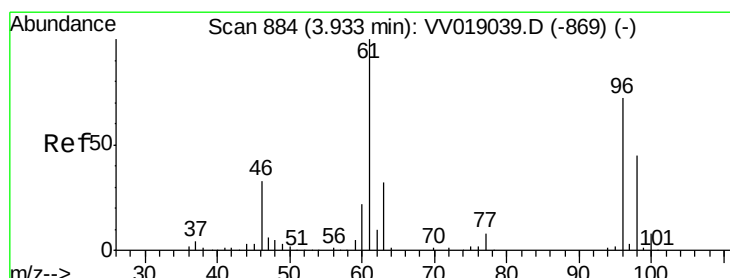
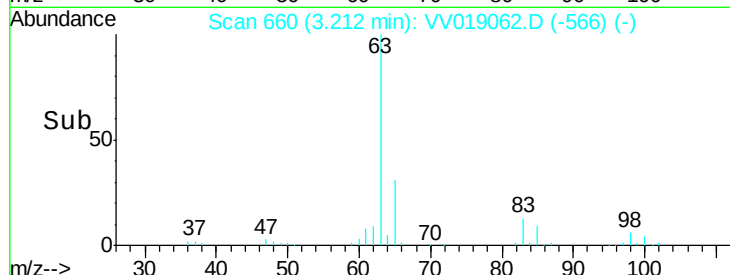
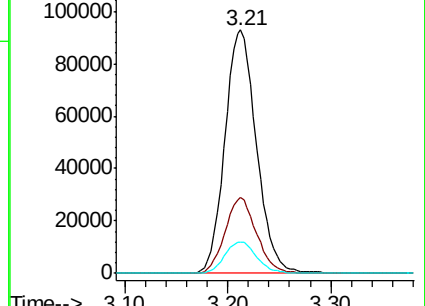
83 12.9 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 48.521 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

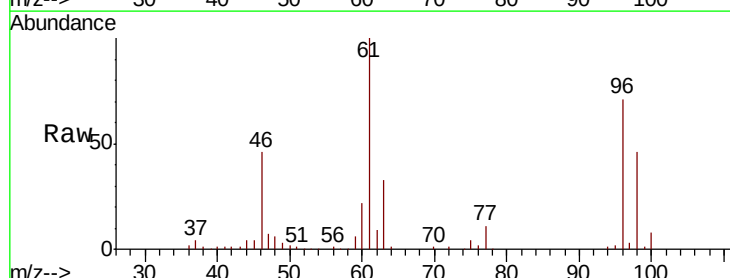
Tgt Ion: 96 Resp: 93421

Ion Ratio Lower Upper

96 100

61 140.3 96.1 178.5

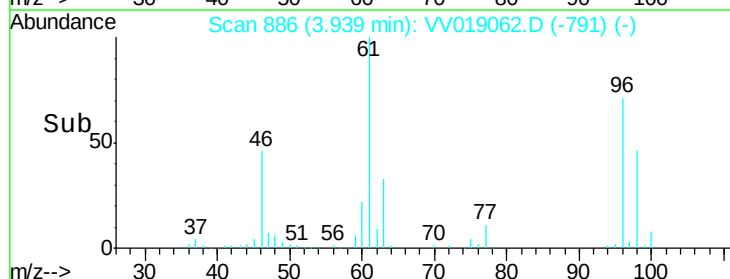
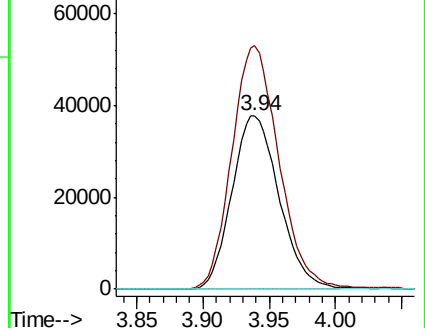
68 0.0 0.0 0.0

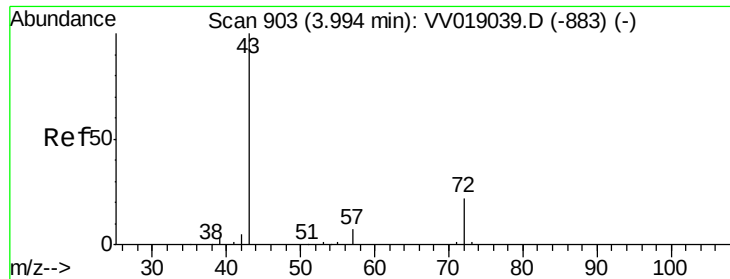


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 100.028 ug/L

RT: 4.00 min Scan# 905

Delta R.T. 0.01 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

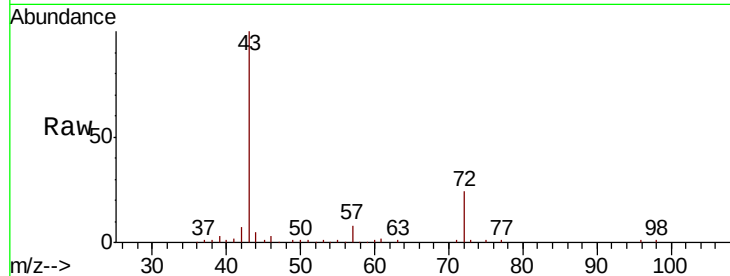
VSTD05069

Tot Ion: 43 Resp: 141942

Ion Ratio Lower Upper

43 100

72 22.0 10.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VV019039.D (-883) (-)

Ion 72.00 (71.70 to 72.70): VV019039.D (-883) (-)

4.00

50000

40000

30000

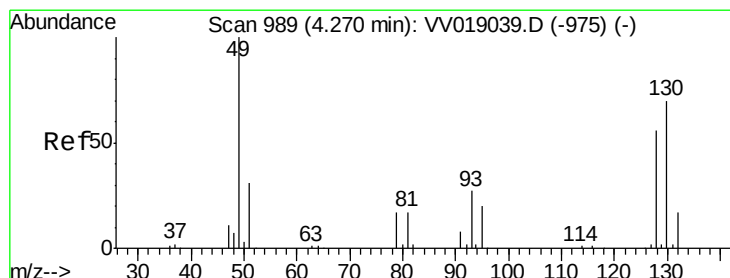
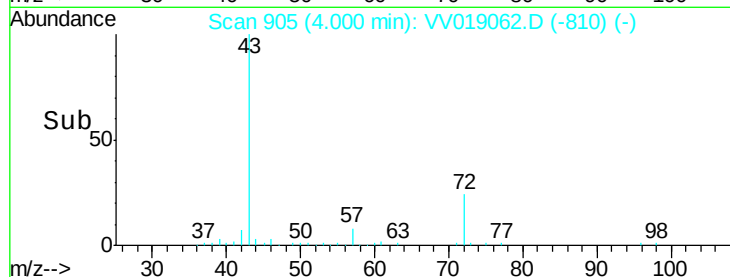
20000

10000

0

Time-->

3.90 4.00 4.10



#23

Bromochloromethane

Concen: 50.021 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Tgt Ion:128 Resp: 49739

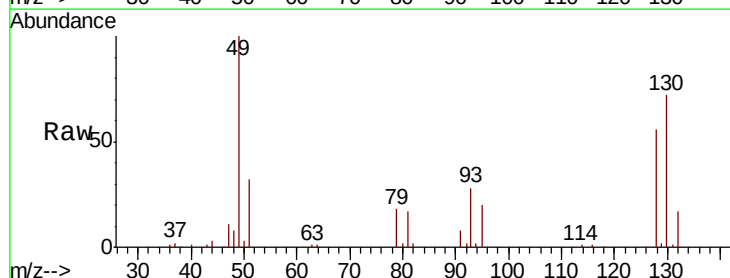
Ion Ratio Lower Upper

128 100

49 178.2 131.7 244.7

130 128.7 92.8 172.4

51 57.4 47.8 71.6



Abundance Ion 128.00 (127.70 to 128.70): VV019039.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VV019039.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VV019039.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VV019039.D (-975) (-)

50000

40000

30000

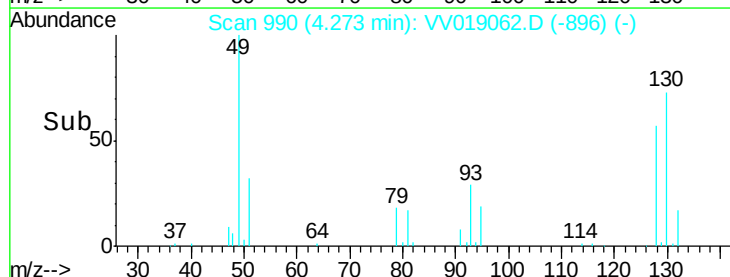
20000

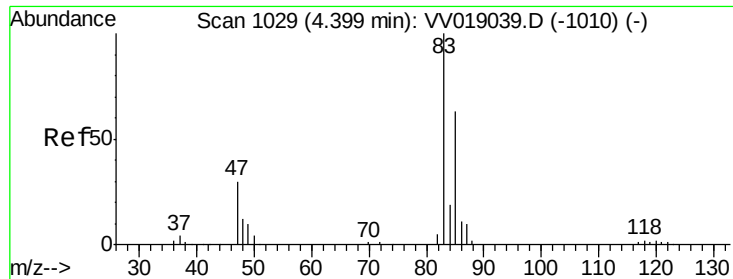
10000

0

Time-->

4.20 4.30 4.40

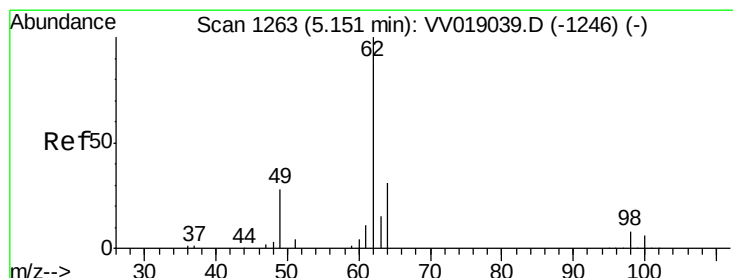
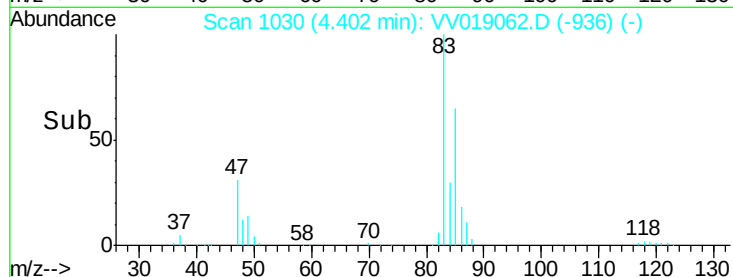
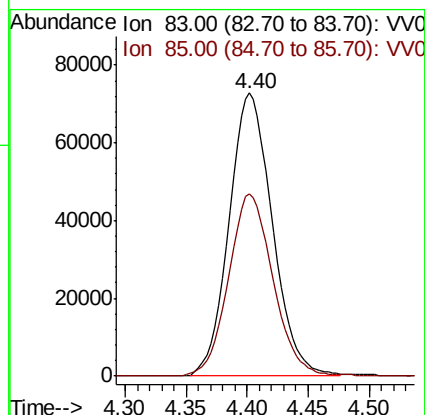
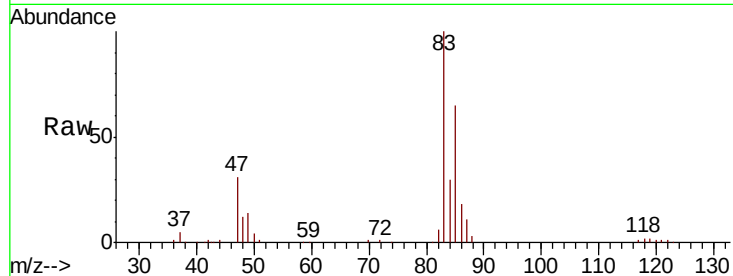




#25  
Chloroform  
Concen: 50.513 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

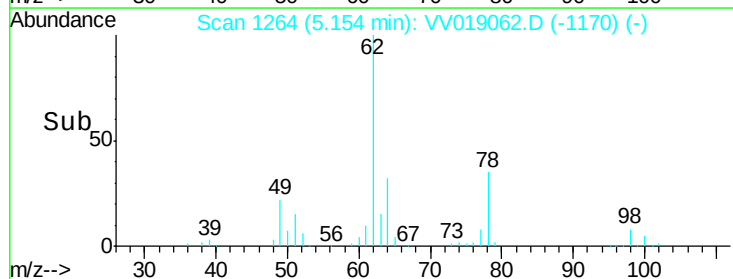
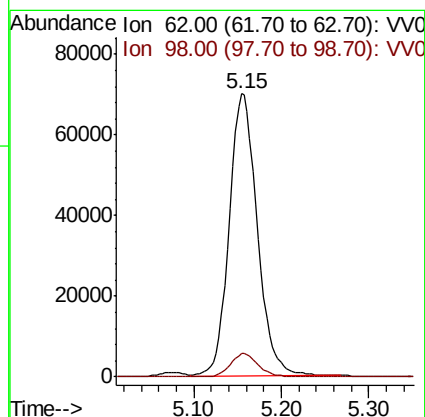
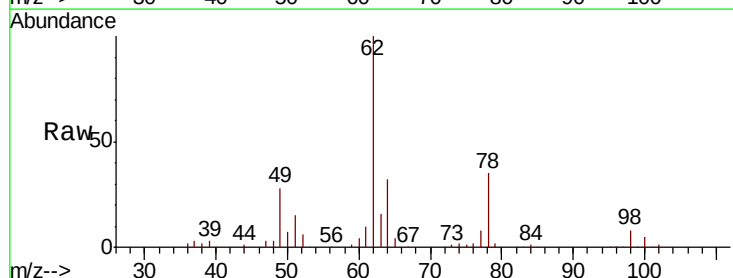
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

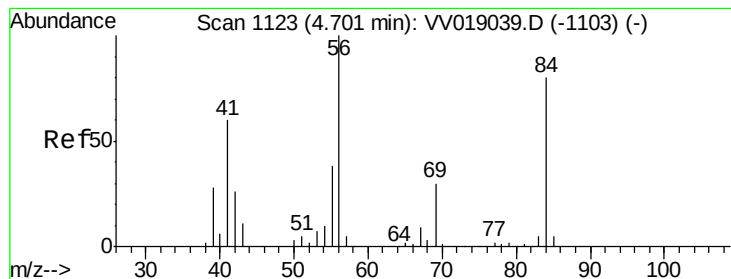
Tot Ion: 83 Resp: 179513  
Ion Ratio Lower Upper  
83 100  
85 64.6 44.6 82.8



#27  
1,2-Dichloroethane  
Concen: 53.935 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion: 62 Resp: 156580  
Ion Ratio Lower Upper  
62 100  
98 8.2 7.0 10.6





#29

Cyclohexane

Concen: 43.902 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

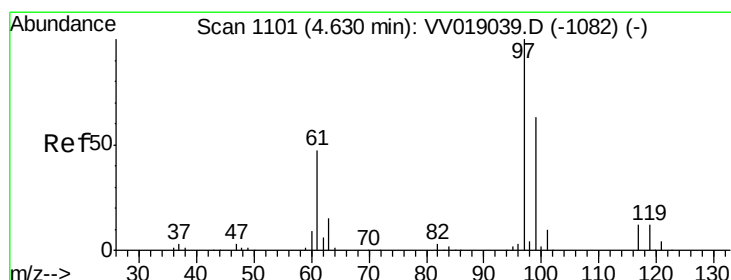
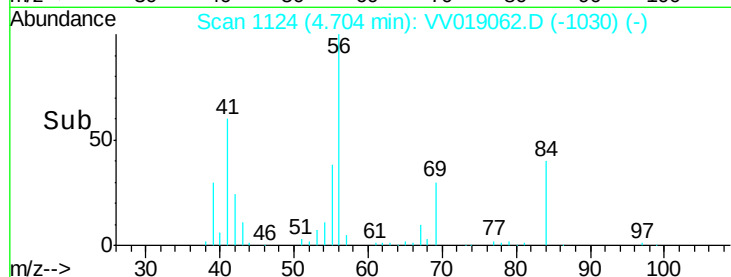
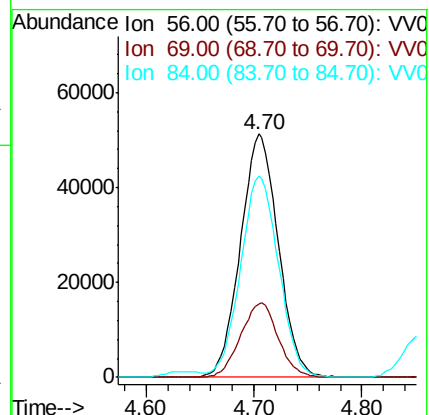
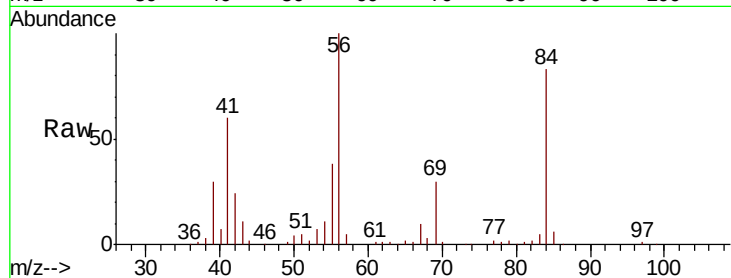
Tot Ion: 56 Resp: 125324

Ion Ratio Lower Upper

56 100

69 30.3 23.5 35.3

84 83.4 64.7 97.1



#30

1,1,1-Trichloroethane

Concen: 51.529 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

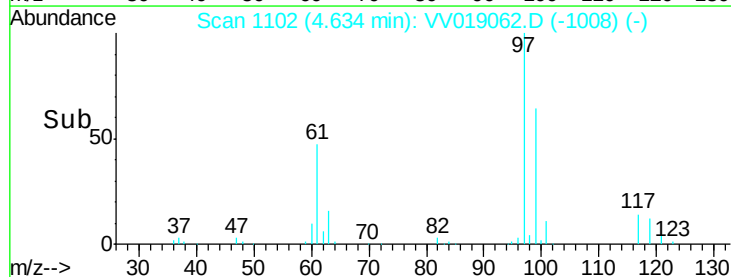
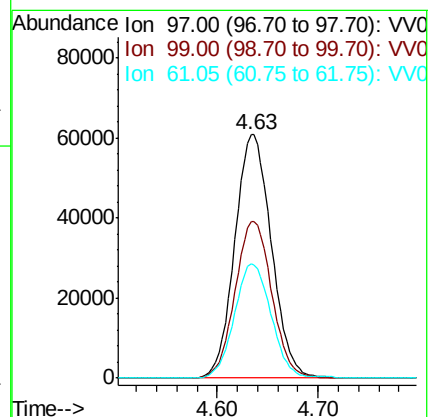
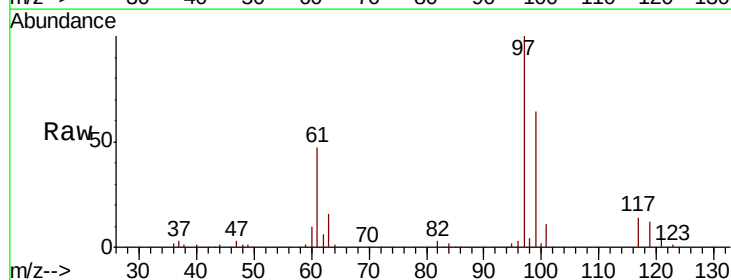
Tgt Ion: 97 Resp: 153588

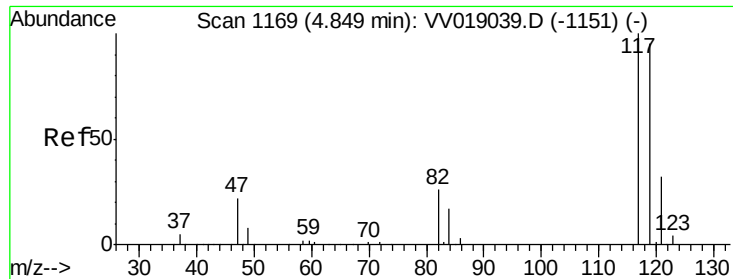
Ion Ratio Lower Upper

97 100

99 64.3 51.2 76.8

61 47.1 37.5 56.3

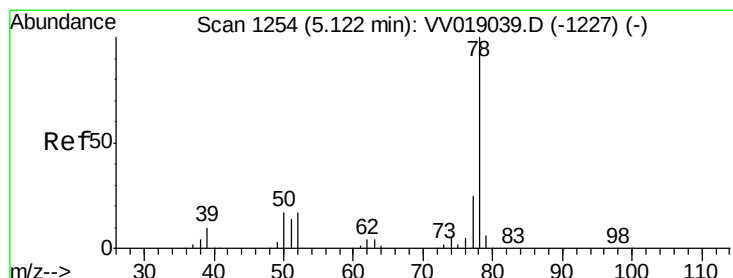
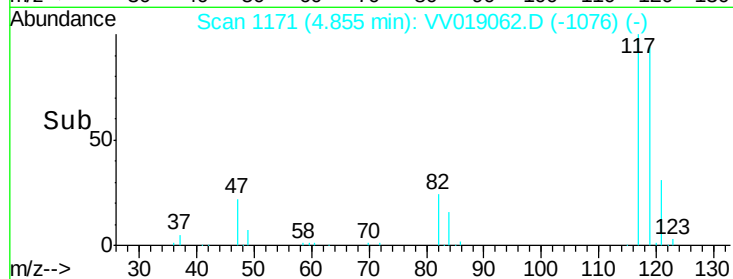
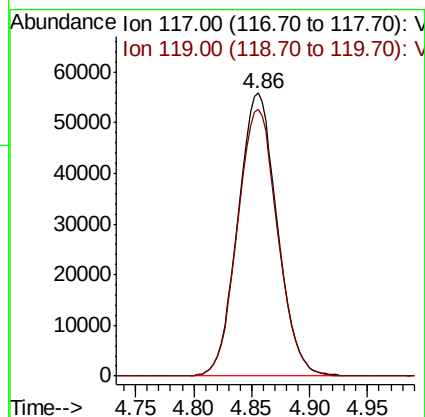
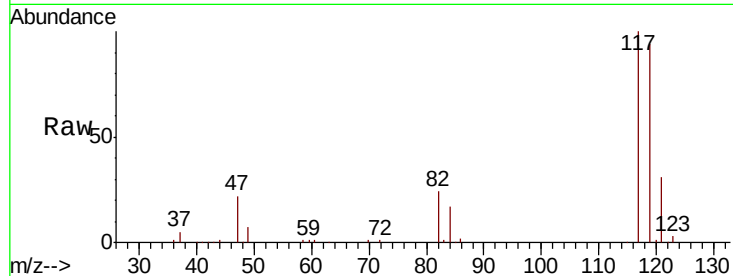




#31  
Carbon tetrachloride  
Concen: 51.926 ug/L  
RT: 4.86 min Scan# 1171  
Delta R.T. 0.01 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

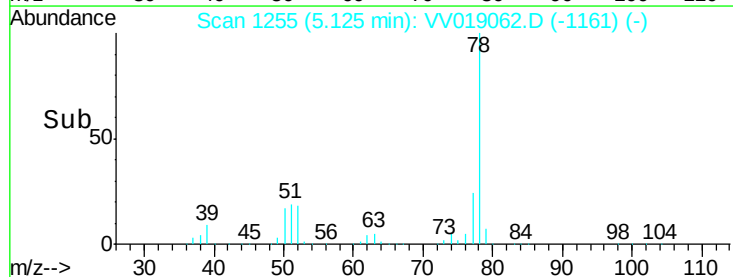
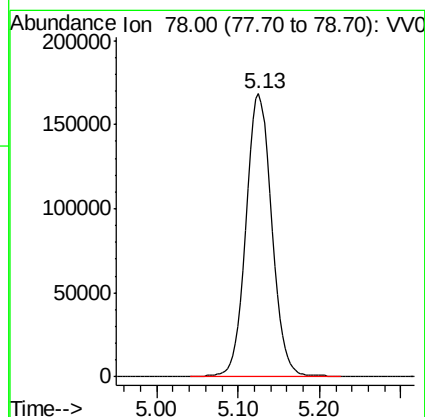
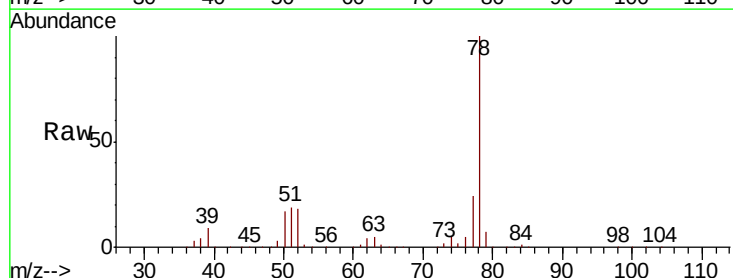
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

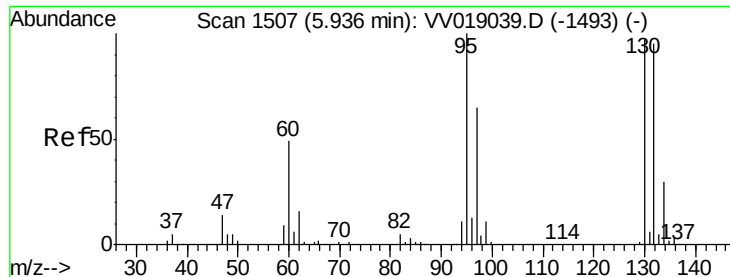
Tot Ion:117 Resp: 131727  
Ion Ratio Lower Upper  
117 100  
119 96.3 76.9 115.3



#33  
Benzene  
Concen: 49.692 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion: 78 Resp: 365902





#34

Trichloroethene

Concen: 46.659 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

Tot Ion: 95 Resp: 99077

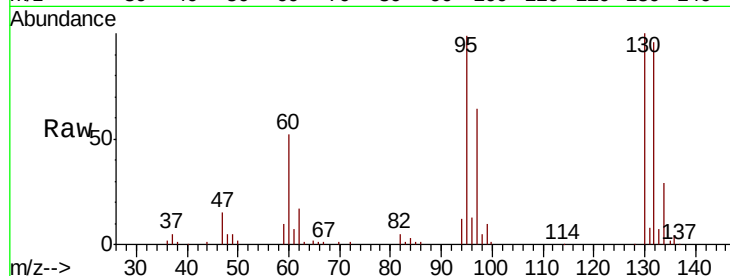
Ion Ratio Lower Upper

95 100

97 64.1 44.7 82.9

132 96.6 67.0 124.4

130 100.8 70.8 131.6

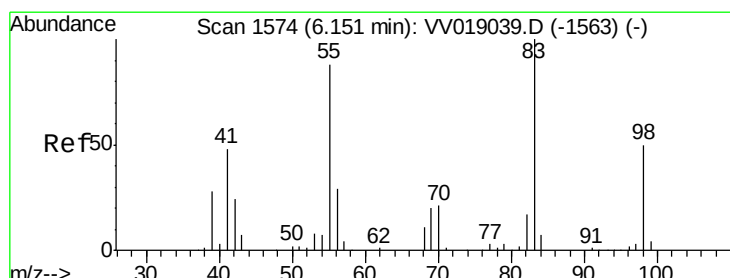
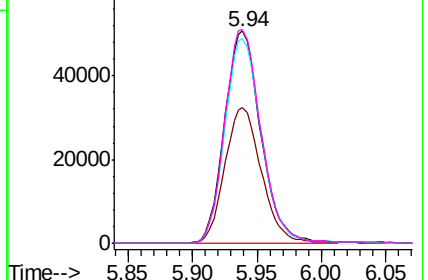
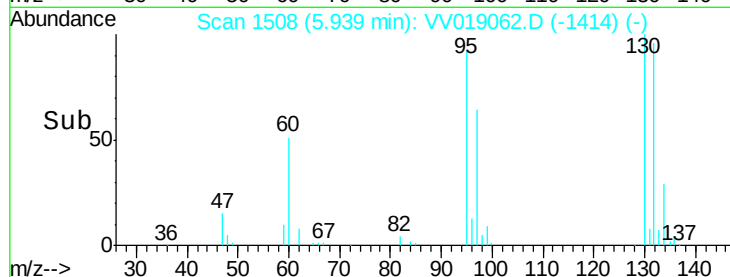


Abundance Ion 95.00 (94.70 to 95.70): VV019062.D (-1414) (-)

Ion 97.00 (96.70 to 97.70): VV019062.D (-1414) (-)

Ion 132.00 (131.70 to 132.70): VV019062.D (-1414) (-)

Ion 130.00 (129.70 to 130.70): VV019062.D (-1414) (-)



#35

Methylcyclohexane

Concen: 43.706 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

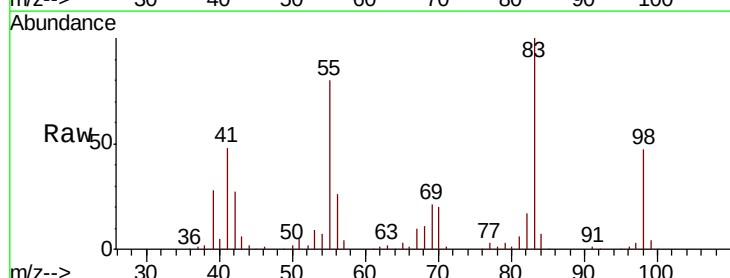
Tgt Ion: 83 Resp: 112400

Ion Ratio Lower Upper

83 100

55 82.5 67.3 100.9

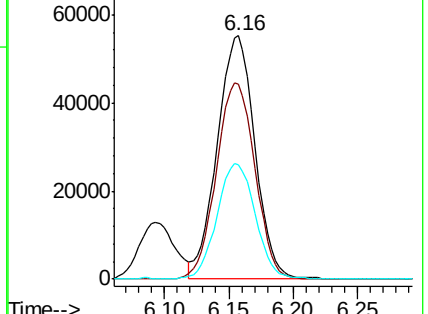
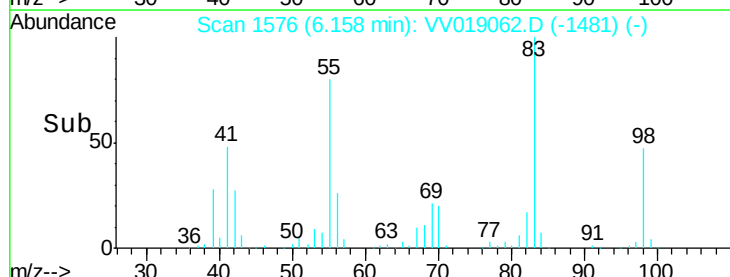
98 47.6 37.9 56.9



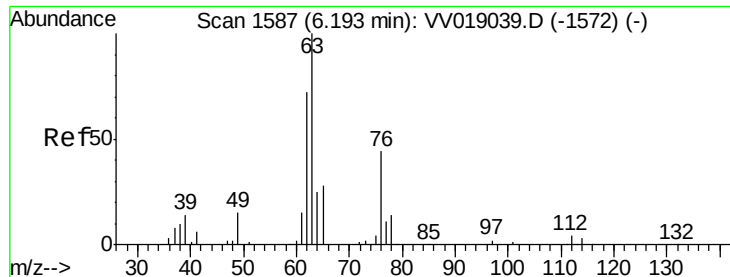
Abundance Ion 83.00 (82.70 to 83.70): VV019062.D (-1481) (-)

Ion 55.00 (54.70 to 55.70): VV019062.D (-1481) (-)

Ion 98.00 (97.70 to 98.70): VV019062.D (-1481) (-)



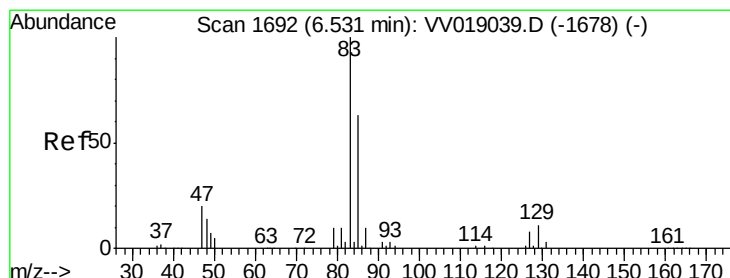
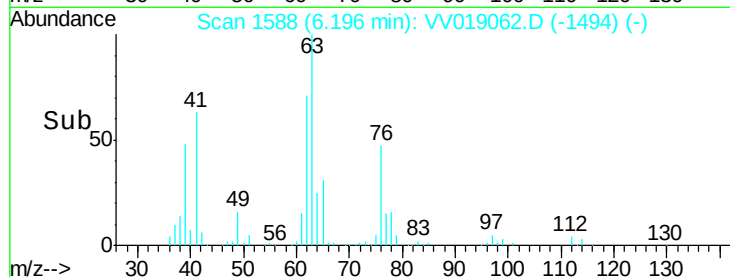
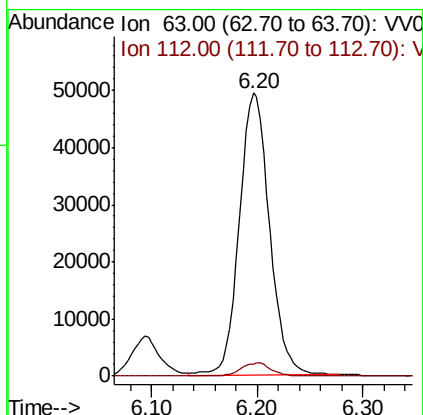
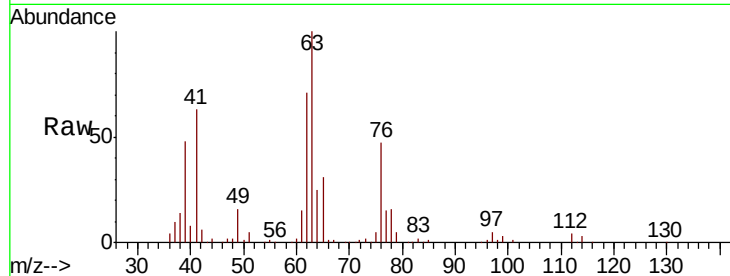




#37  
 1,2-Dichloropropane  
 Concen: 49.876 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. 0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

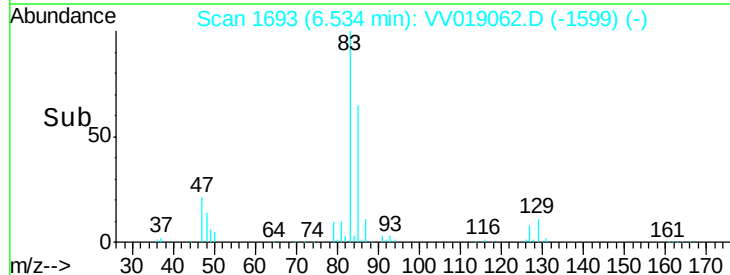
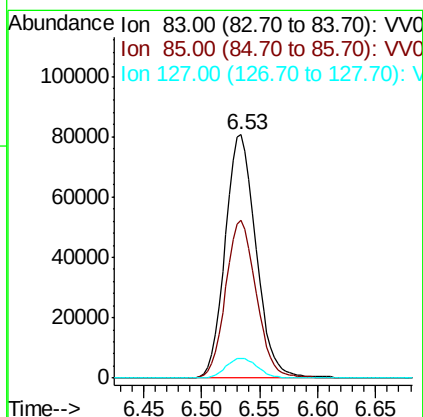
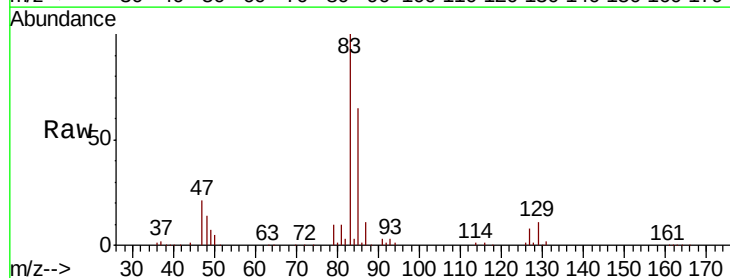
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

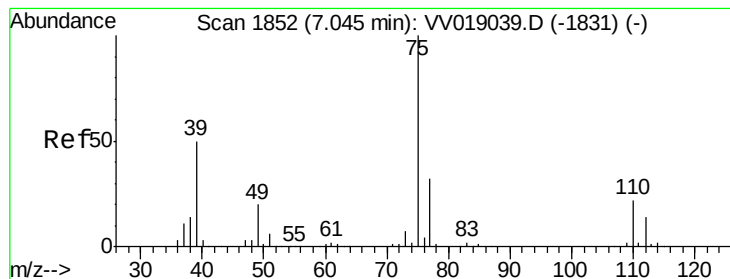
Tot Ion: 63 Resp: 98315  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.3 4.9



#38  
 Bromodichloromethane  
 Concen: 58.992 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. 0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

Tgt Ion: 83 Resp: 149088  
 Ion Ratio Lower Upper  
 83 100  
 85 64.9 44.7 83.1  
 127 8.3 6.6 9.8



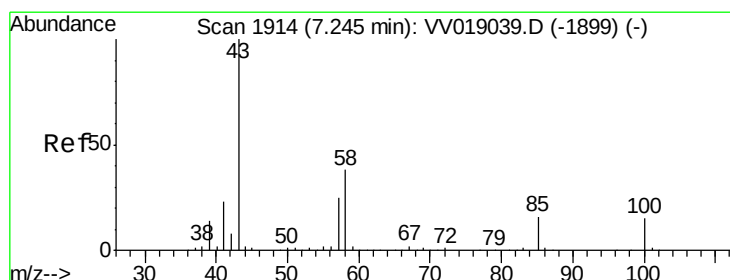
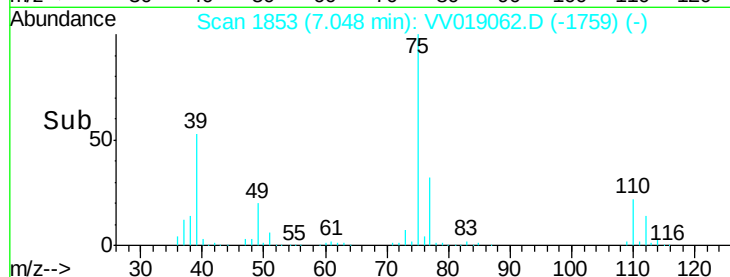
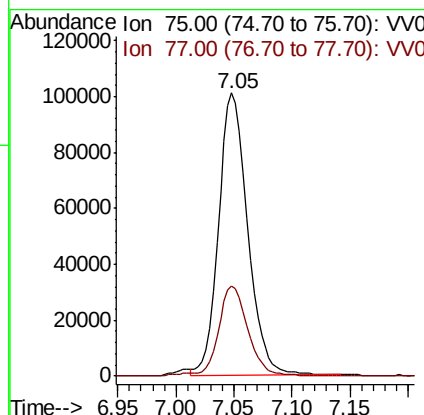
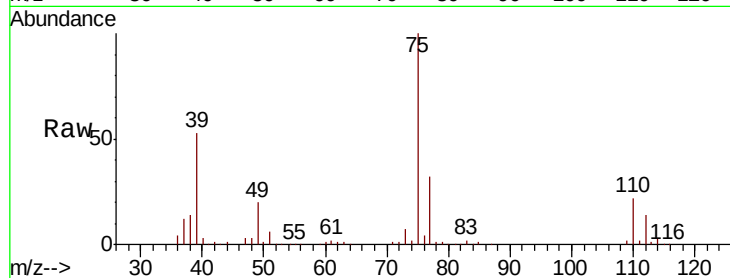


#39

cis-1,3-Dichloropropene  
 Concen: 59.744 ug/L  
 RT: 7.05 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

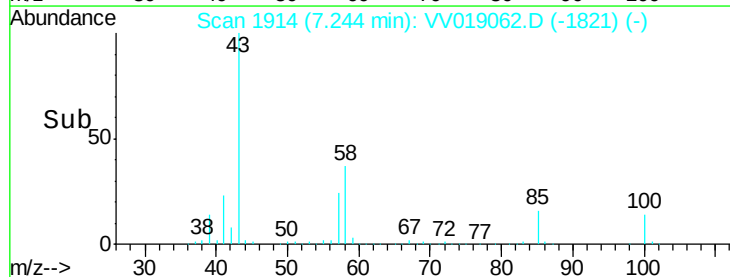
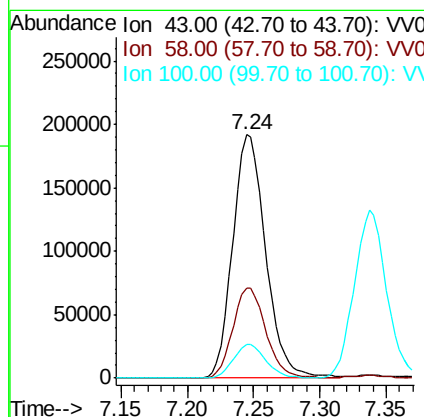
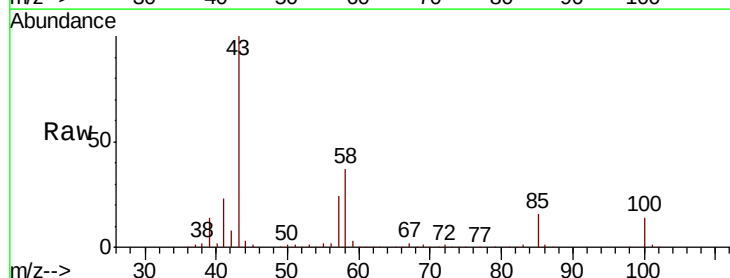
Tot Ion: 75 Resp: 176957  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 22.5 41.9

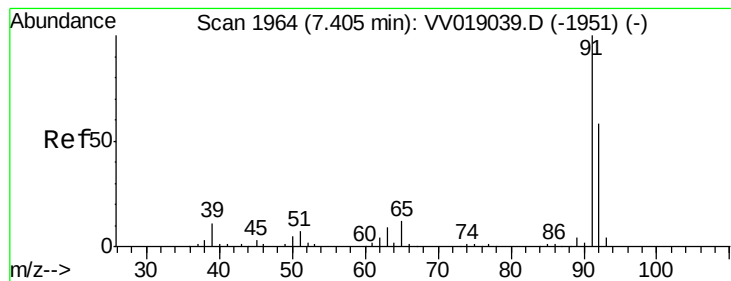


#40

4-Methyl-2-pentanone  
 Concen: 122.150 ug/L  
 RT: 7.24 min Scan# 1914  
 Delta R.T. -0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

Tgt Ion: 43 Resp: 332049  
 Ion Ratio Lower Upper  
 43 100  
 58 37.0 30.5 45.7  
 100 13.7 11.1 16.7





#42

Toluene

Concen: 56.948 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

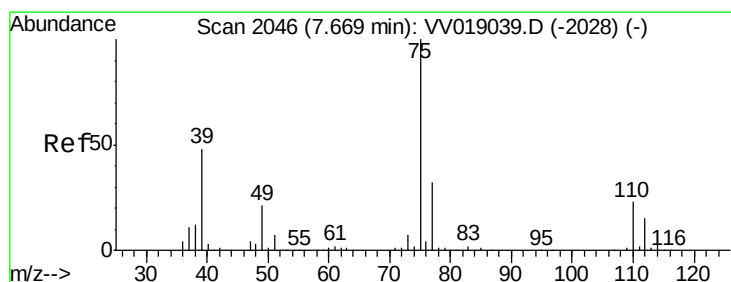
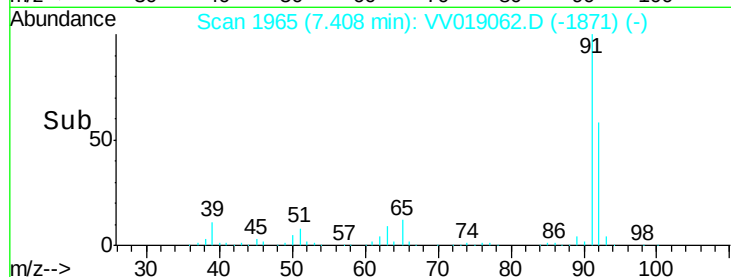
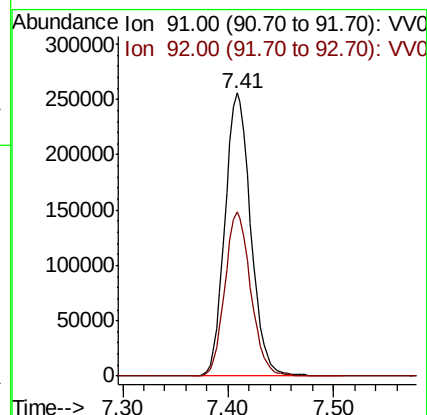
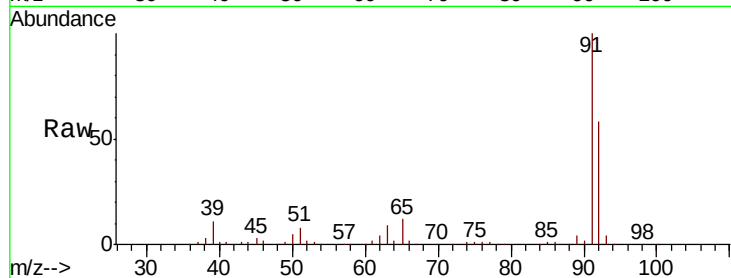
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

Tot Ion: 91 Resp: 433101

Ion Ratio Lower Upper

91 100

92 58.2 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 57.341 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV019062.D

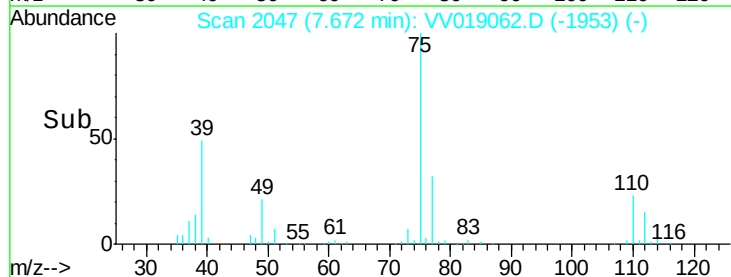
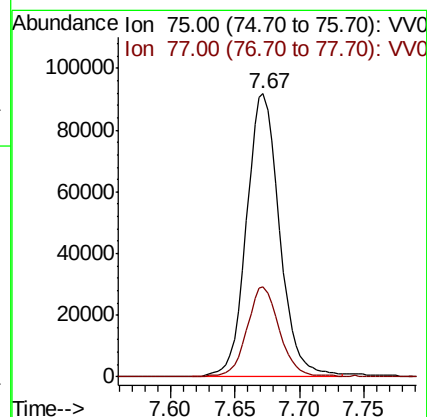
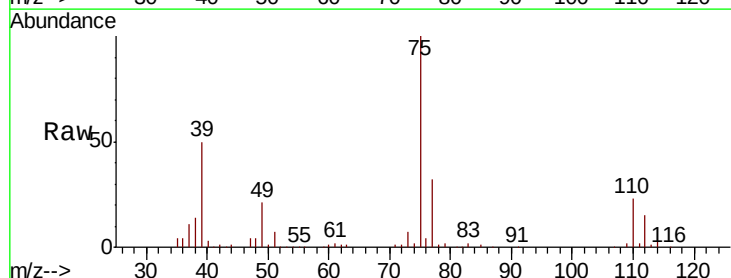
Acq: 21 Oct 2020 20:29

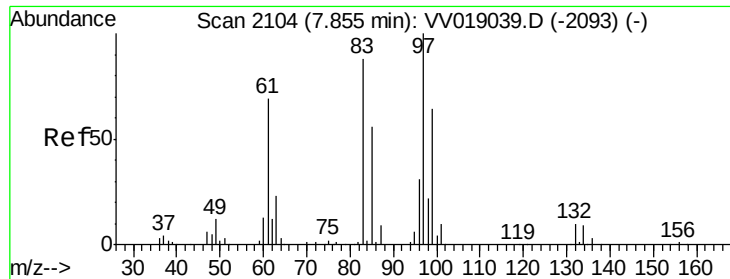
Tgt Ion: 75 Resp: 164586

Ion Ratio Lower Upper

75 100

77 31.8 21.9 40.7

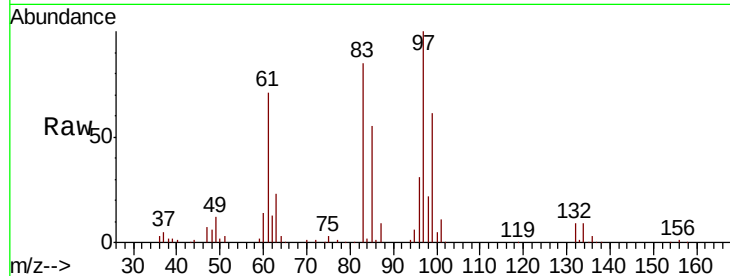




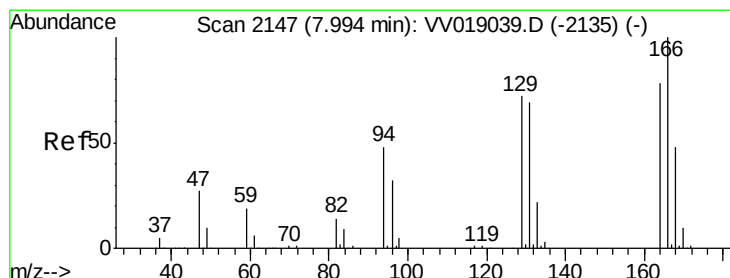
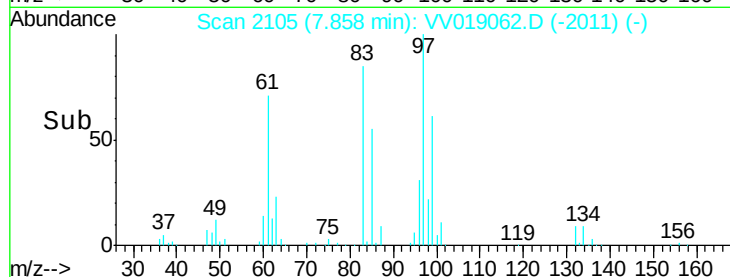
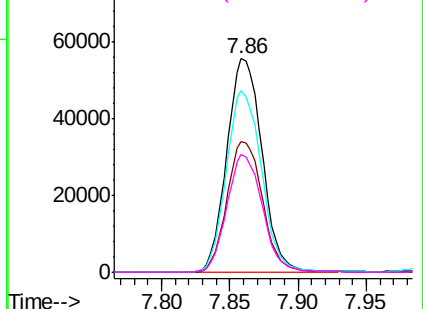
#45  
 1,1,2-Trichloroethane  
 Concen: 54.455 ug/L  
 RT: 7.86 min Scan# 2105  
 Delta R.T. 0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 99846 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.3  | 43.8  | 81.4  |
| 83       | 84.9  | 61.0  | 113.4 |
| 85       | 55.2  | 38.9  | 72.2  |

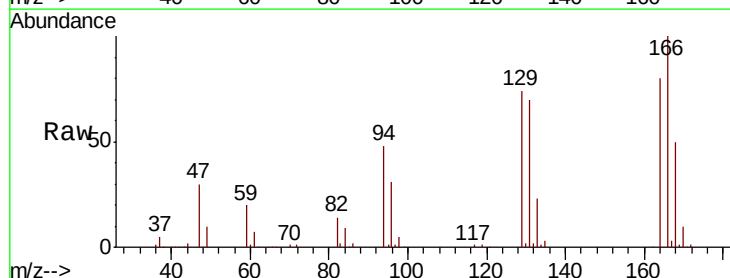


Abundance Ion 97.00 (96.70 to 97.70): VV019062.D (-2011) (-)

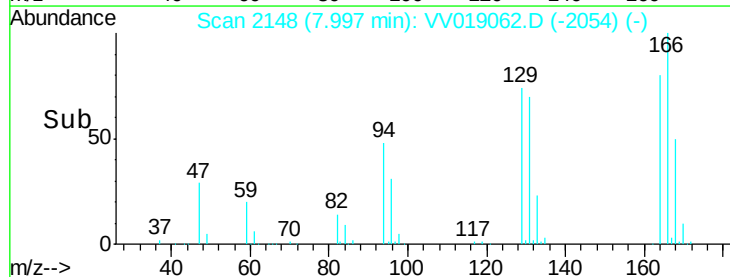
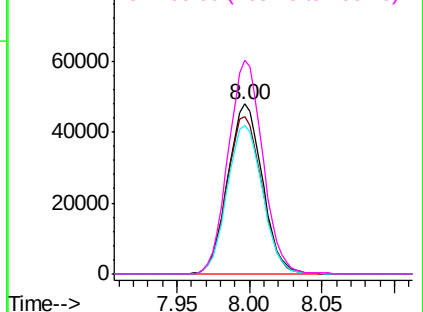


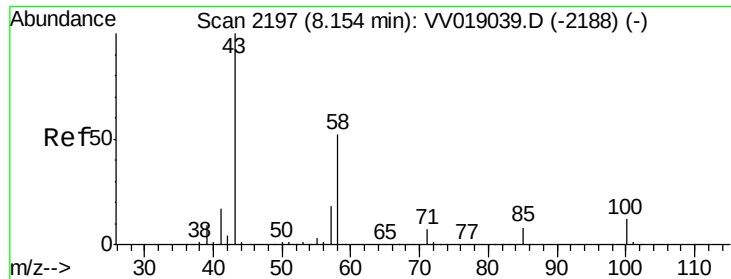
#46  
 Tetrachloroethene  
 Concen: 53.226 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 79652 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 92.9  | 65.0  | 120.8 |
| 131      | 87.4  | 62.9  | 116.7 |
| 166      | 125.6 | 91.1  | 169.3 |



Abundance Ion 164.00 (163.70 to 164.70): VV019062.D (-2054) (-)

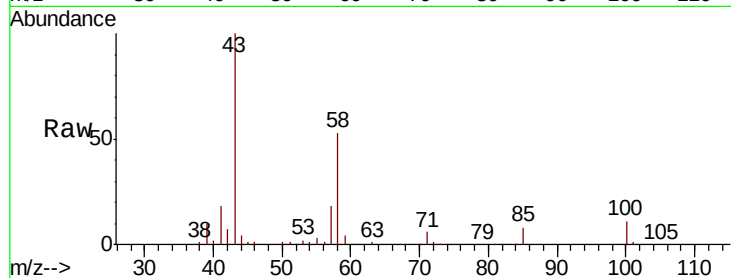




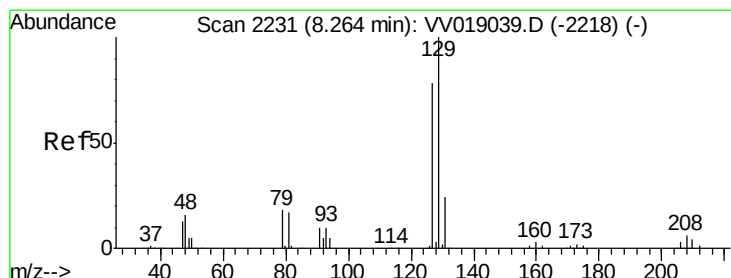
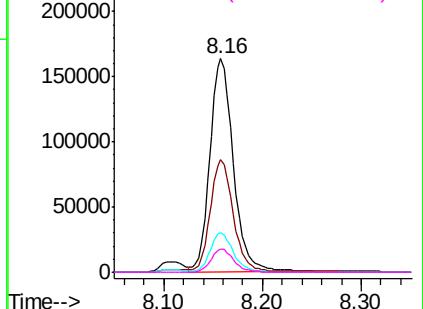
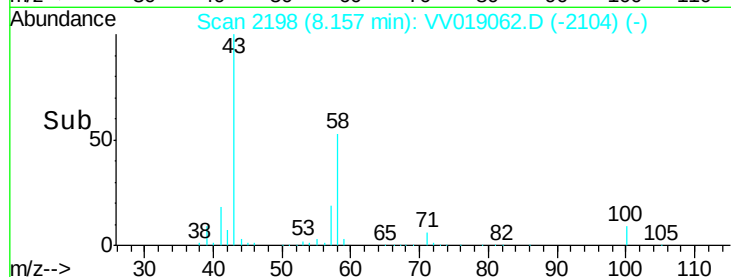
#48  
2-Hexanone  
Concen: 125.626 ug/L  
RT: 8.16 min Scan# 2198  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

Tot Ion: 43 Resp: 270768  
Ion Ratio Lower Upper  
43 100  
58 51.2 42.5 63.7  
57 18.1 14.5 21.7  
100 10.6 9.0 13.4

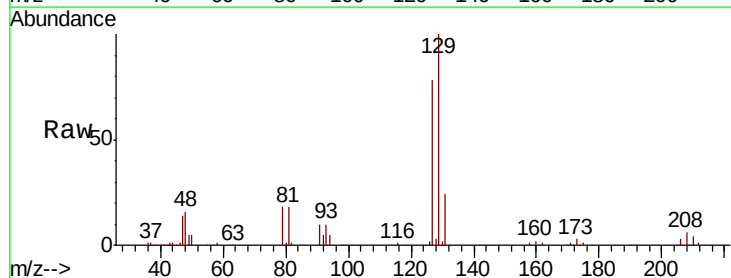


Abundance Ion 43.00 (42.70 to 43.70): VV019062.D (-2104) (-)  
Ion 58.00 (57.70 to 58.70): VV019062.D (-2104) (-)  
Ion 57.00 (56.70 to 57.70): VV019062.D (-2104) (-)  
Ion 100.00 (99.70 to 100.70): VV019062.D (-2104) (-)

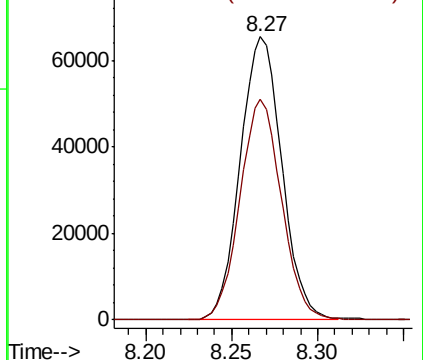
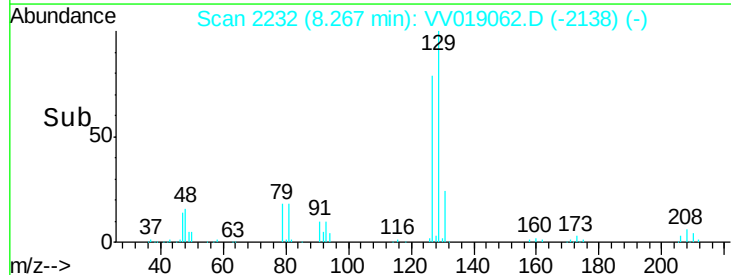


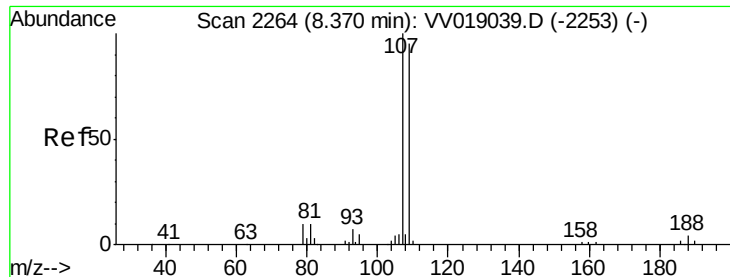
#49  
Dibromochloromethane  
Concen: 56.831 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion: 129 Resp: 110319  
Ion Ratio Lower Upper  
129 100  
127 78.0 55.2 102.6



Abundance Ion 129.00 (128.70 to 129.70): VV019062.D (-2138) (-)  
Ion 127.00 (126.70 to 127.70): VV019062.D (-2138) (-)

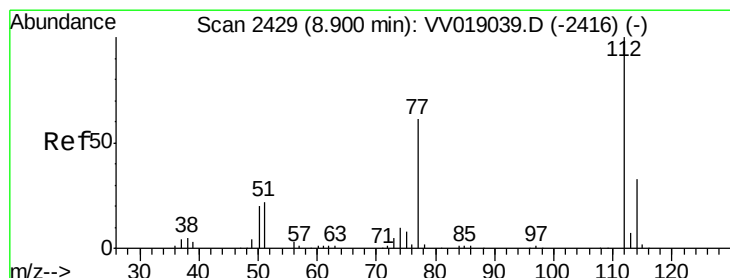
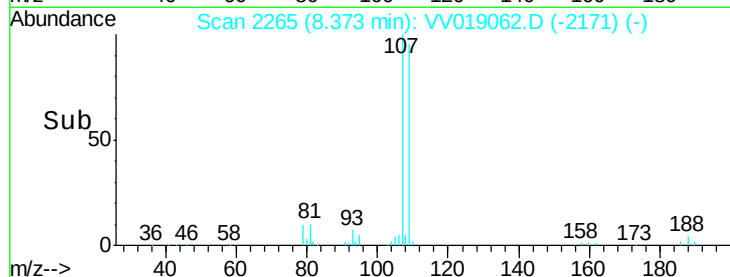
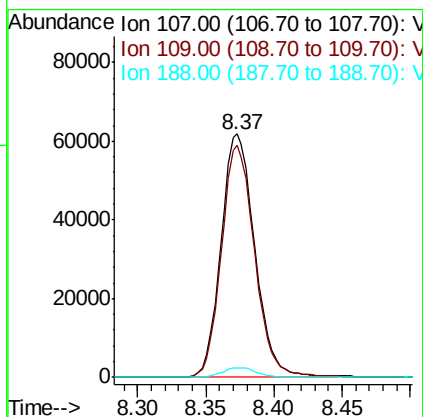
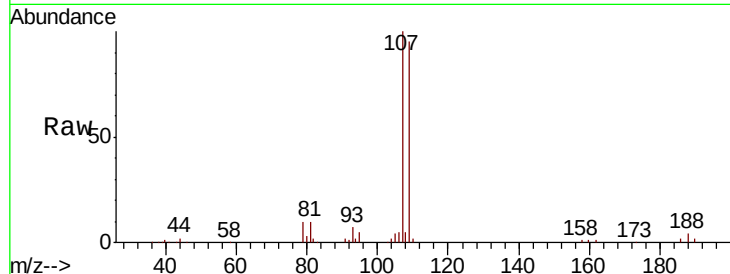




#50  
1,2-Dibromoethane  
Concen: 55.476 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. 0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

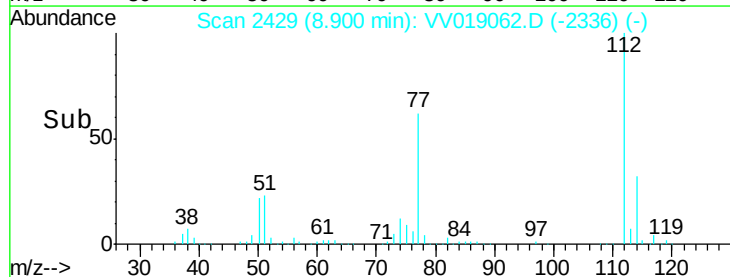
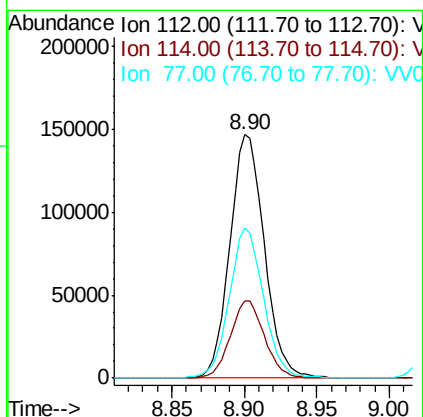
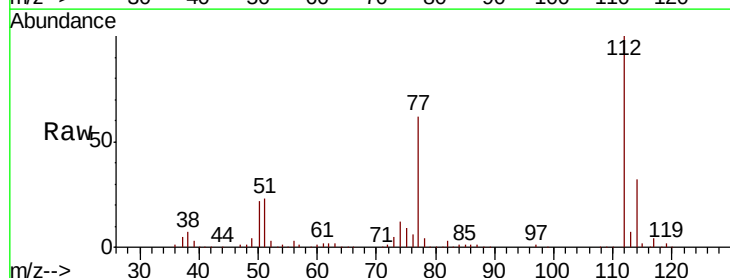
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

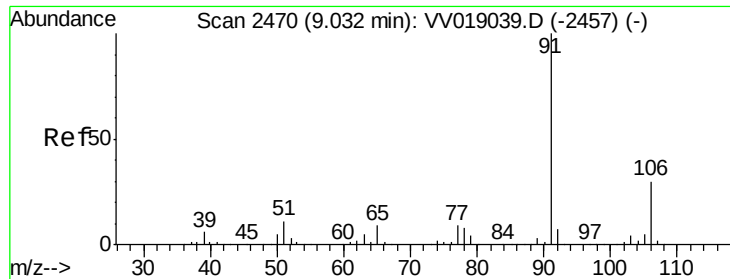
Tot Ion:107 Resp: 106008  
Ion Ratio Lower Upper  
107 100  
109 95.2 65.8 122.2  
188 4.1 3.2 4.8



#51  
Chlorobenzene  
Concen: 48.899 ug/L  
RT: 8.90 min Scan# 2429  
Delta R.T. -0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion:112 Resp: 242453  
Ion Ratio Lower Upper  
112 100  
114 31.6 21.8 40.6  
77 61.6 49.2 73.8

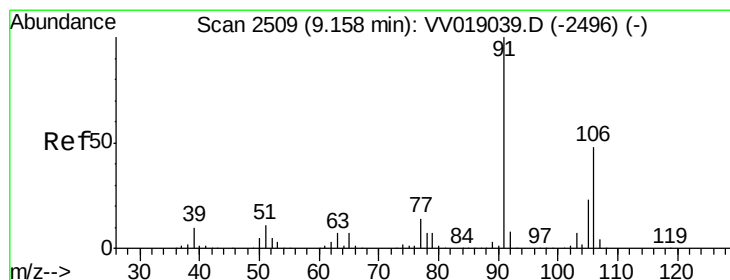
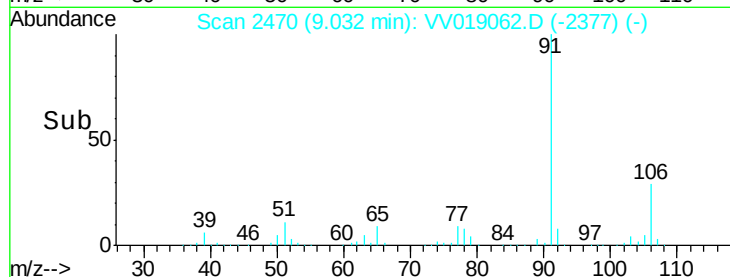
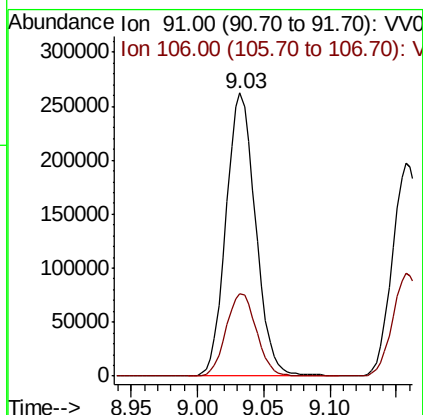
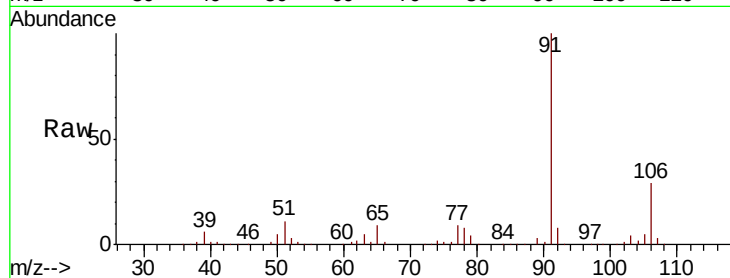




#52  
Ethylbenzene  
Concen: 49.405 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. -0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

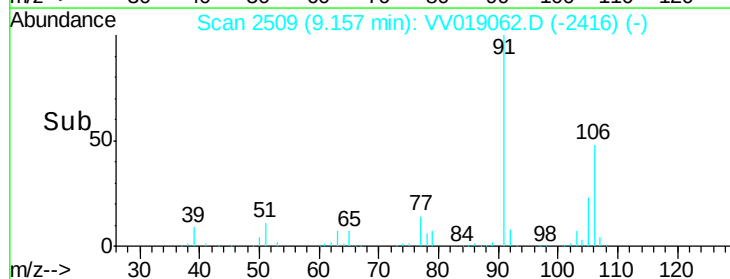
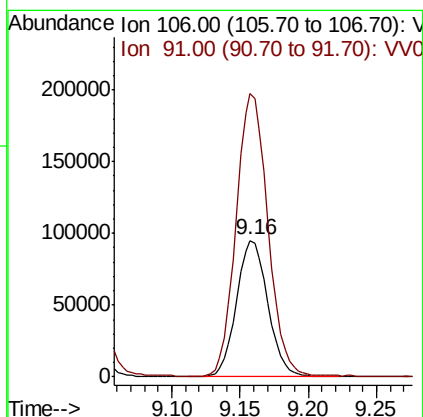
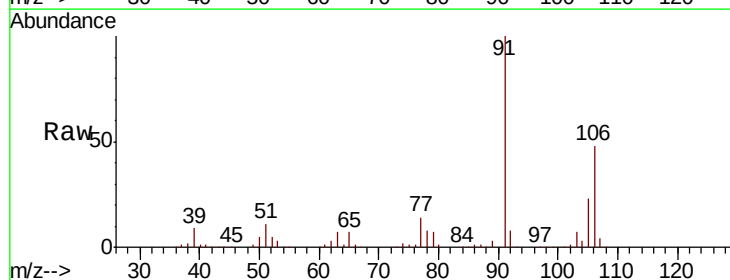
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05069

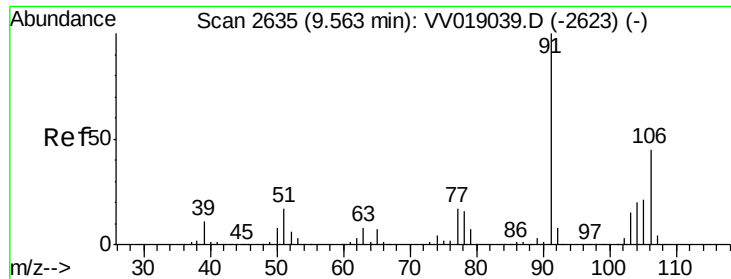
Tot Ion: 91 Resp: 406743  
Ion Ratio Lower Upper  
91 100  
106 29.3 20.9 38.9



#53  
m,p-Xylene  
Concen: 49.433 ug/L  
RT: 9.16 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VV019062.D  
Acq: 21 Oct 2020 20:29

Tgt Ion: 106 Resp: 151620  
Ion Ratio Lower Upper  
106 100  
91 207.7 145.9 270.9





#54

o-xylene

Concen: 51.066 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

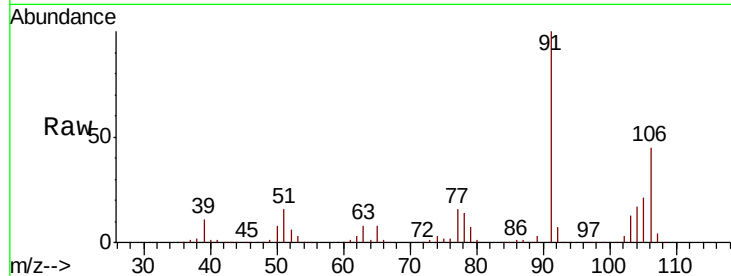
VSTD05069

Tot Ion:106 Resp: 149847

Ion Ratio Lower Upper

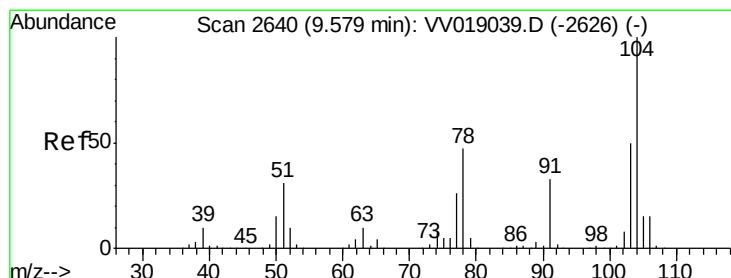
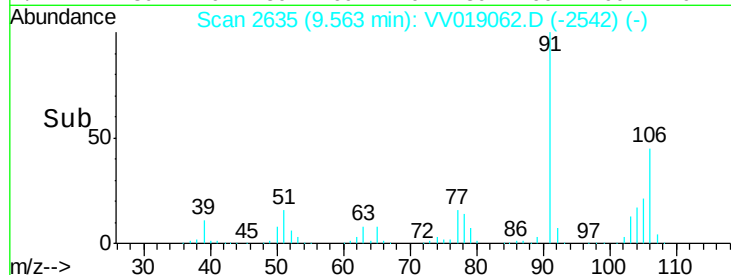
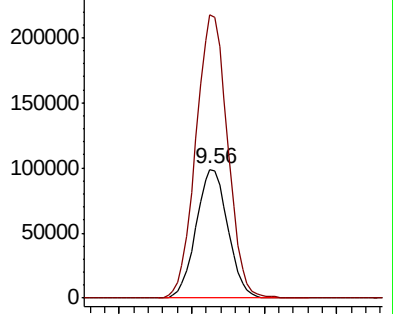
106 100

91 219.9 155.8 289.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 52.249 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV019062.D

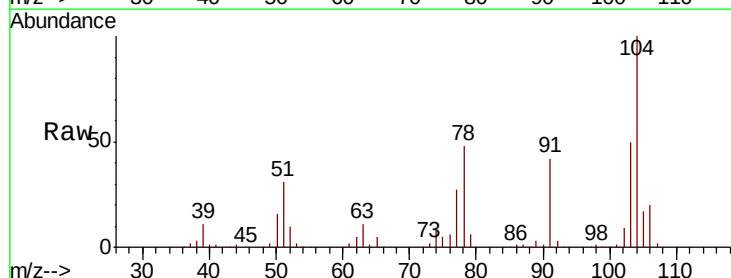
Acq: 21 Oct 2020 20:29

Tgt Ion:104 Resp: 269674

Ion Ratio Lower Upper

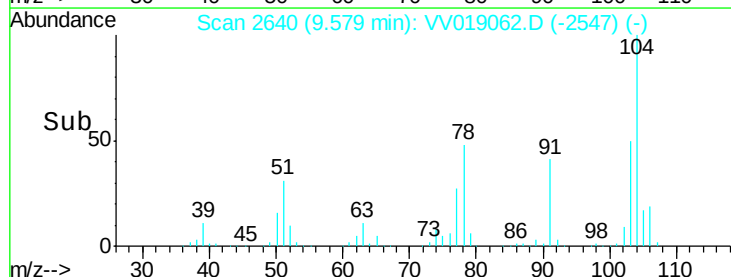
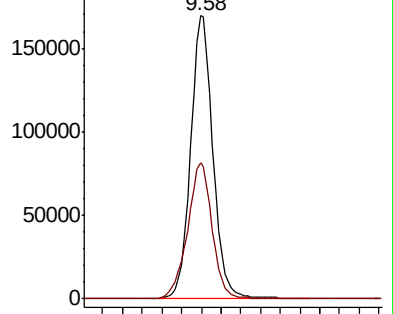
104 100

78 48.3 33.2 61.6

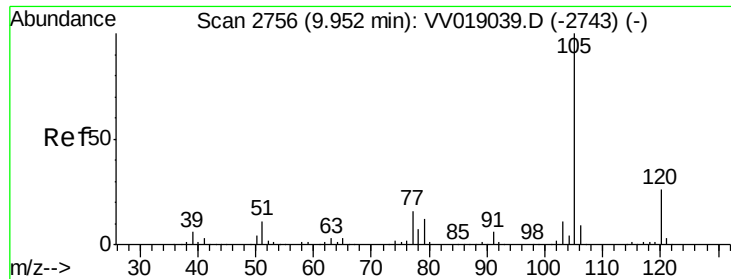


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0







#56

Isopropylbenzene

Concen: 49.950 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

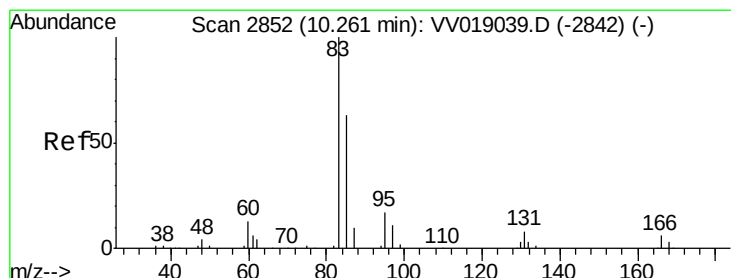
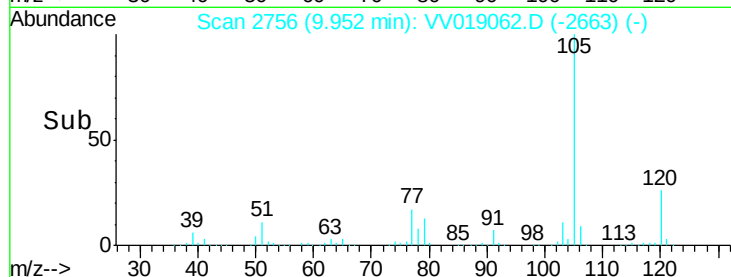
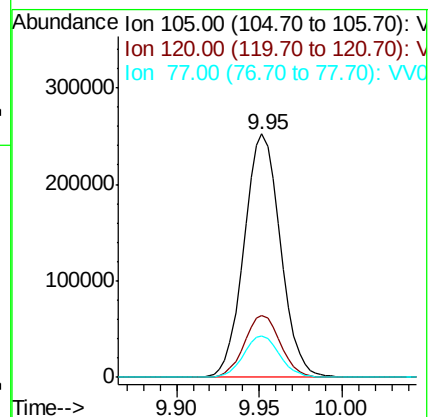
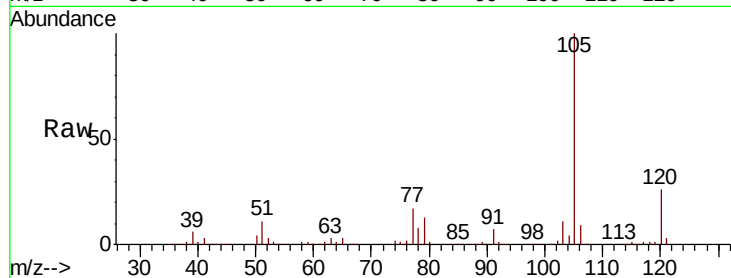
Tot Ion:105 Resp: 384789

Ion Ratio Lower Upper

105 100

120 25.4 20.4 30.6

77 16.8 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 50.495 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

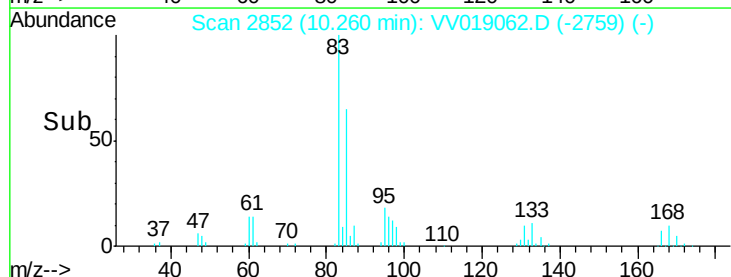
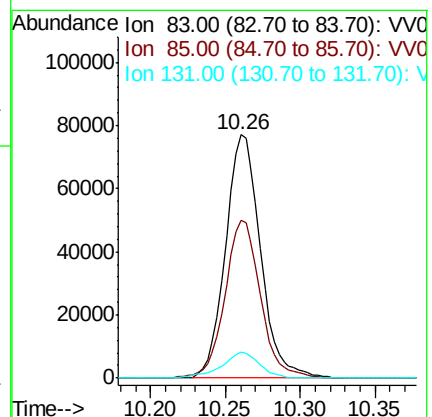
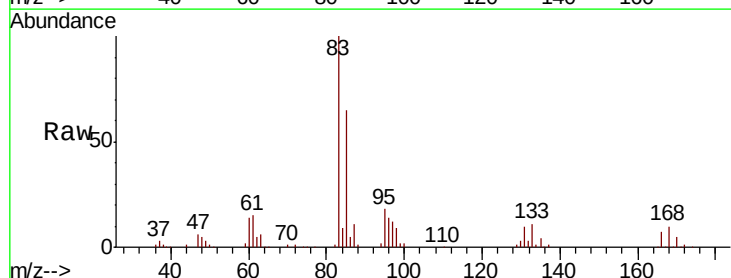
Tgt Ion: 83 Resp: 125717

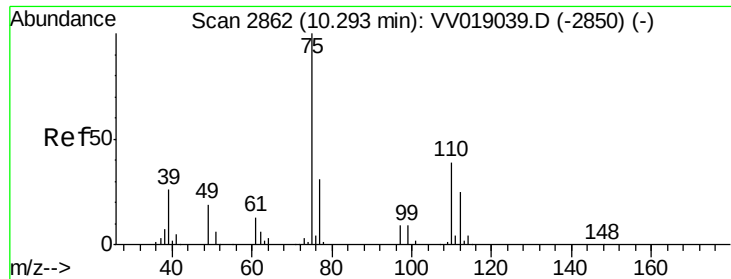
Ion Ratio Lower Upper

83 100

85 65.0 44.7 82.9

131 10.5 7.7 11.5





#59

1,2,3-Trichloropropane

Concen: 50.332 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

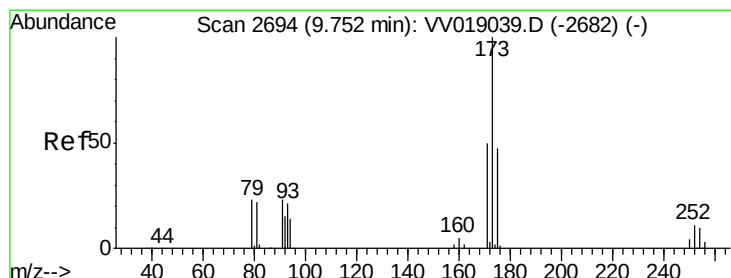
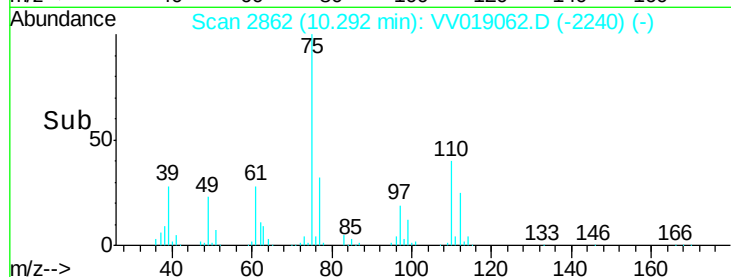
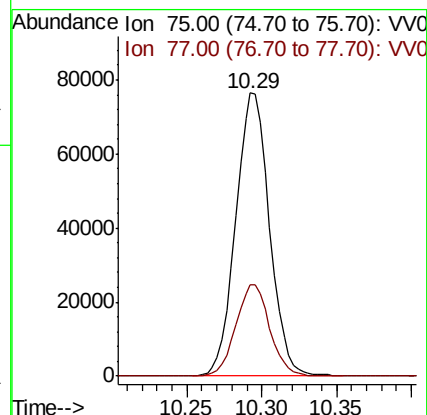
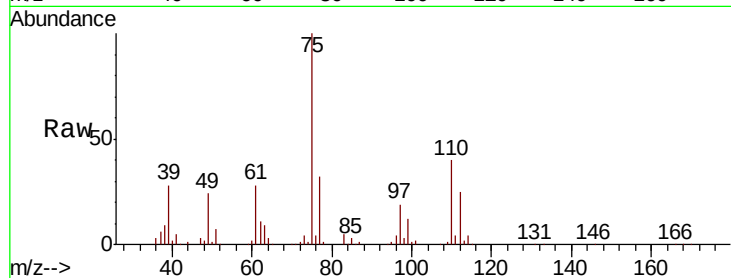
VSTD05069

Tot Ion: 75 Resp: 120095

Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.2



#61

Bromoform

Concen: 52.177 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

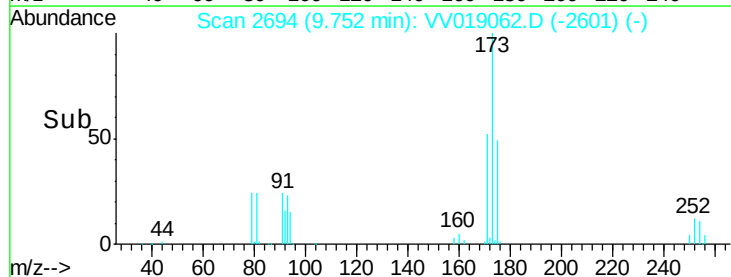
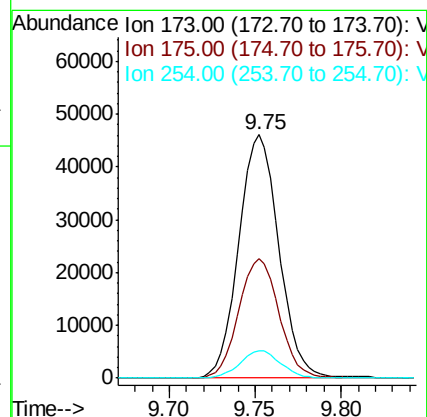
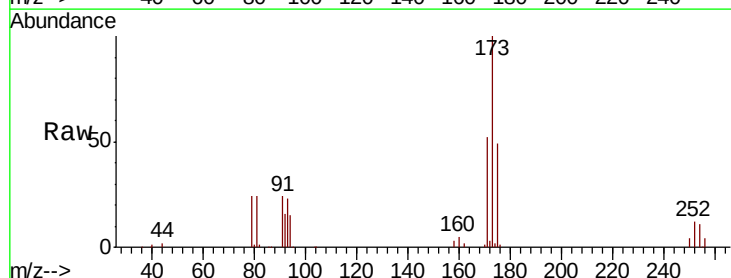
Tgt Ion: 173 Resp: 74834

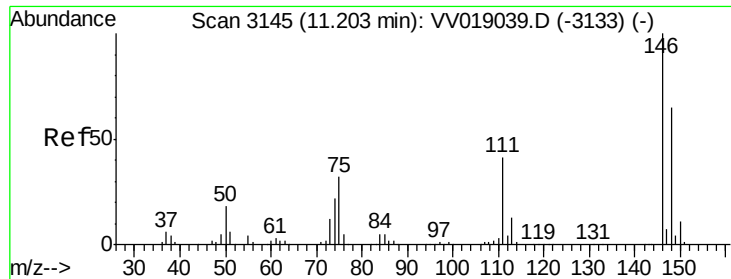
Ion Ratio Lower Upper

173 100

175 49.6 38.2 57.2

254 11.3 8.6 13.0





#62

1,3-Dichlorobenzene

Concen: 48.323 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

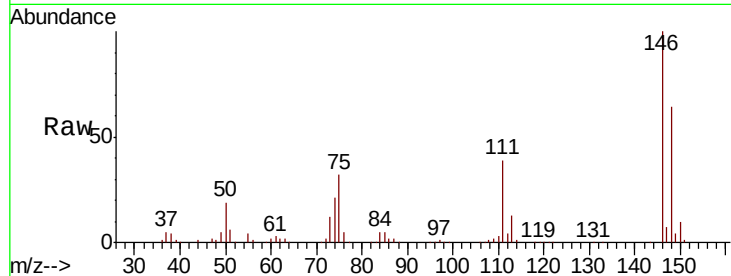
Tot Ion:146 Resp: 196682

Ion Ratio Lower Upper

146 100

111 38.9 28.3 52.7

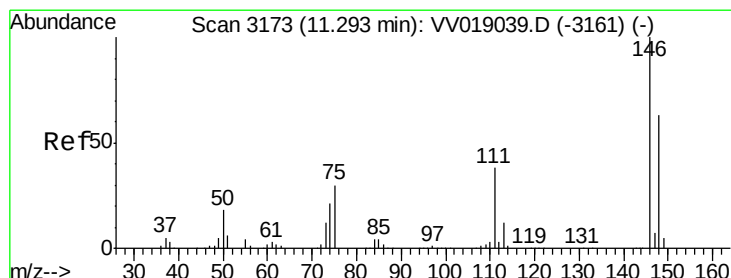
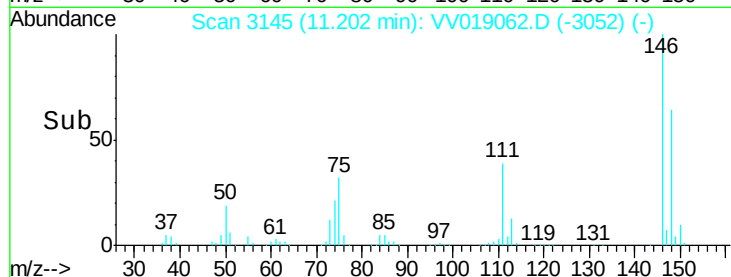
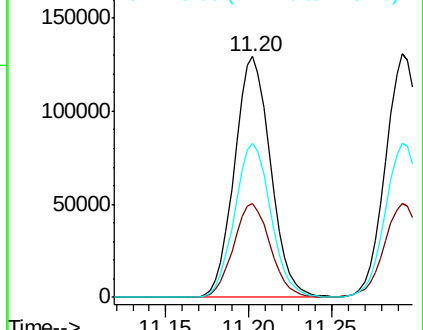
148 64.2 45.1 83.7



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: 47.149 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

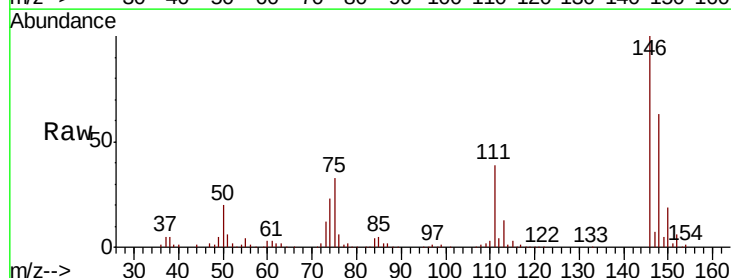
Tgt Ion:146 Resp: 201760

Ion Ratio Lower Upper

146 100

111 38.6 27.5 51.1

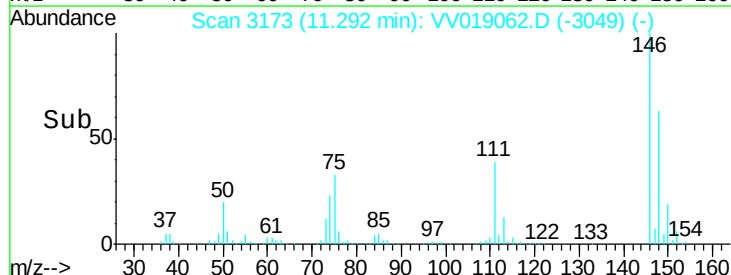
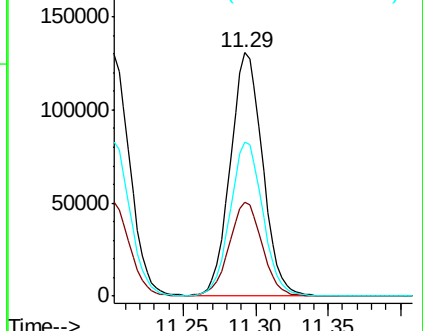
148 63.4 44.1 81.9

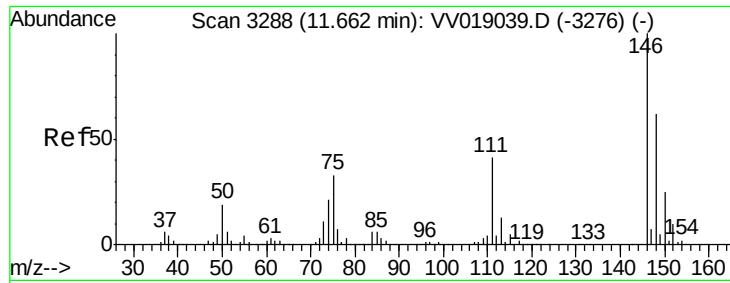


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

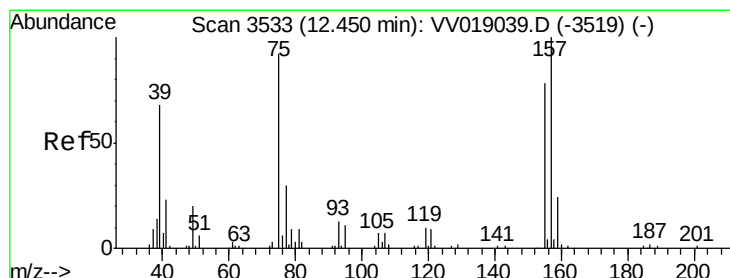
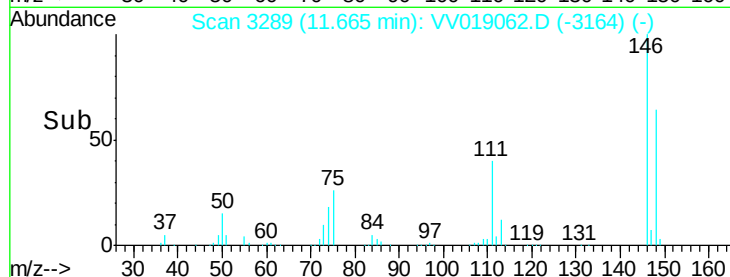
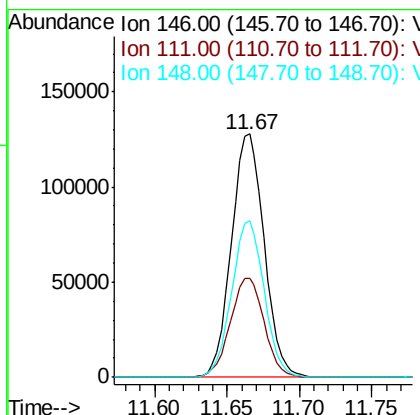
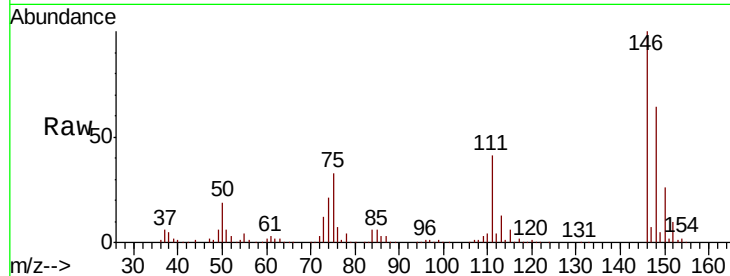




#65  
 1,2-Dichlorobenzene  
 Concen: 48.779 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

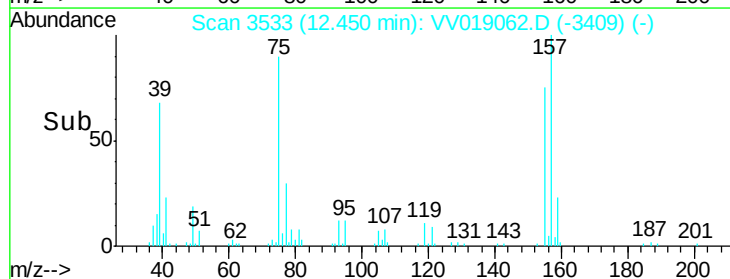
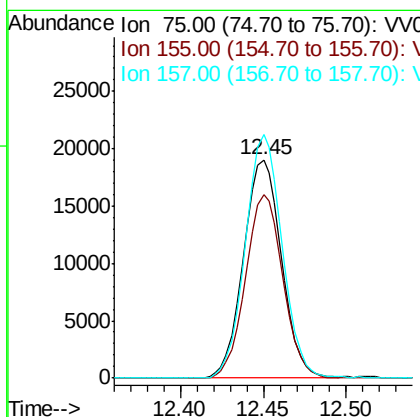
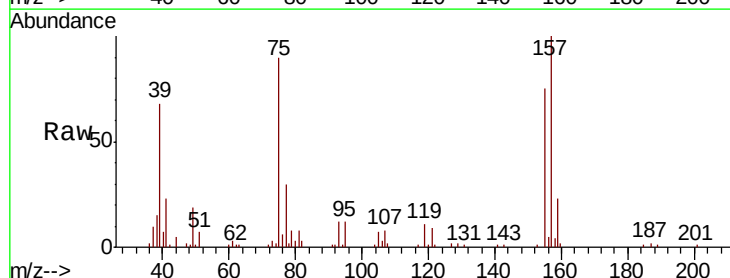
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

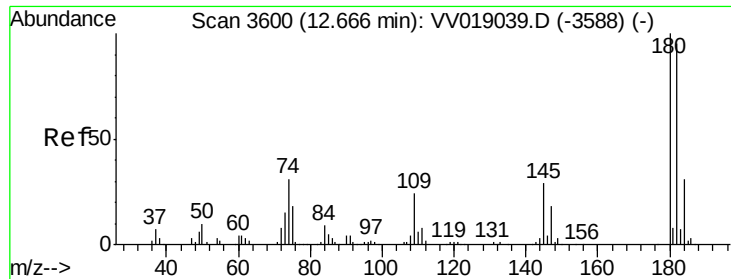
Tot Ion:146 Resp: 200310  
 Ion Ratio Lower Upper  
 146 100  
 111 40.9 33.9 50.9  
 148 64.3 49.8 74.8



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 49.680 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. -0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

Tgt Ion: 75 Resp: 30402  
 Ion Ratio Lower Upper  
 75 100  
 155 83.9 65.7 98.5  
 157 111.5 83.0 124.4

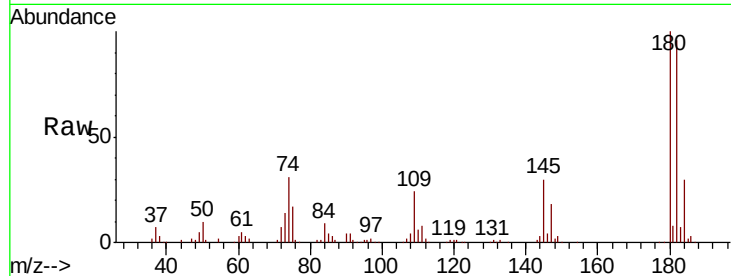




#67  
 1,3,5-Trichlorobenzene  
 Concen: 49.475 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05069

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 75.8  | 113.8 |
| 184     | 30.0  | 24.9  | 37.3  |
| 145     | 29.1  | 23.2  | 34.8  |

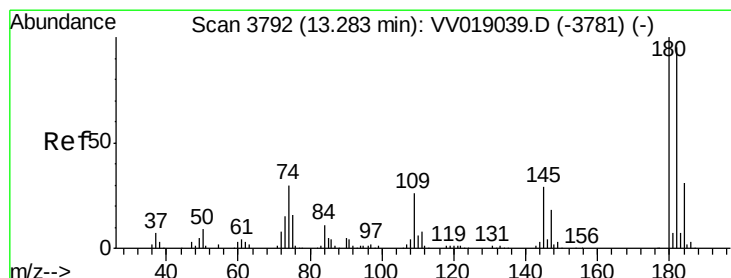
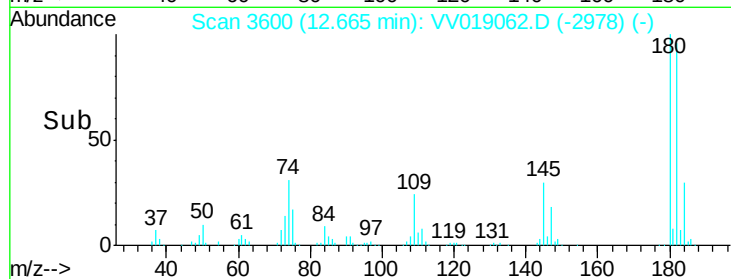
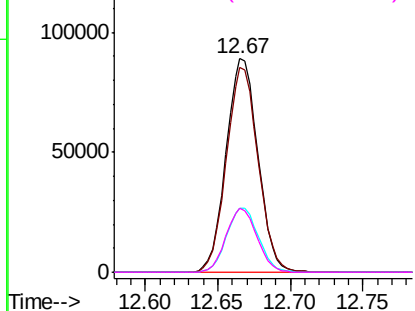


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

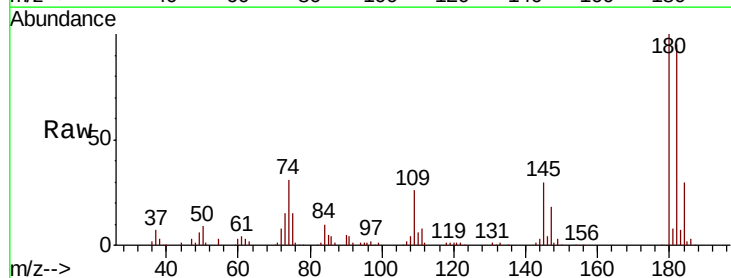
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 51.212 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. -0.00 min  
 Lab File: VV019062.D  
 Acq: 21 Oct 2020 20:29

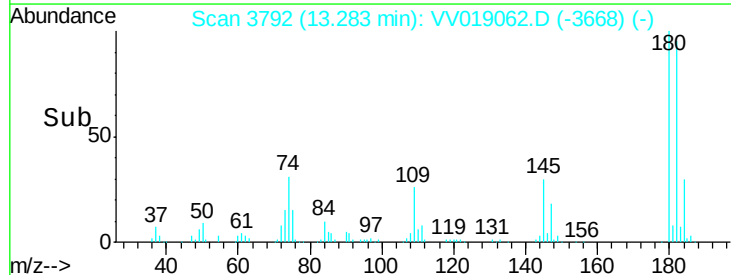
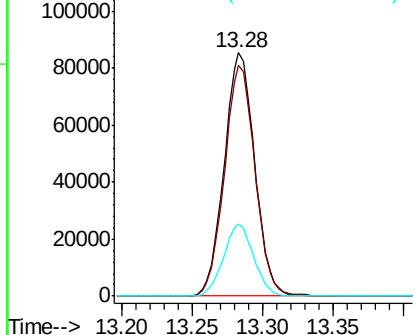
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 76.5  | 114.7 |
| 145     | 29.3  | 23.7  | 35.5  |

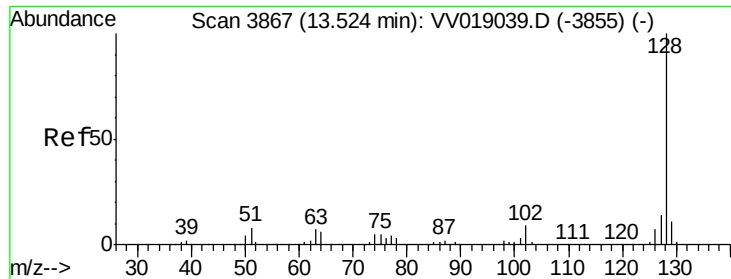


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 52.943 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05069

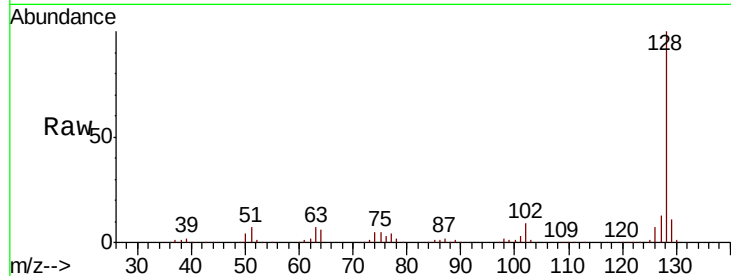
Tot Ion:128 Resp: 378531

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

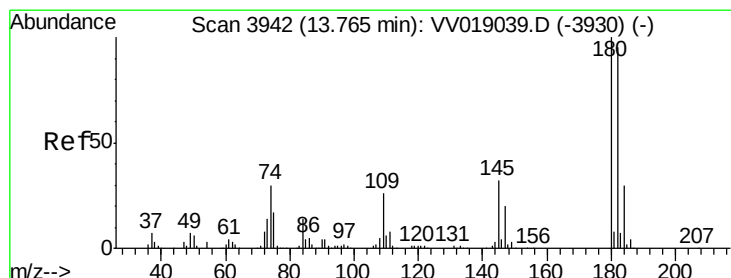
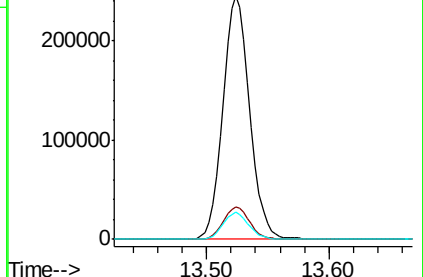
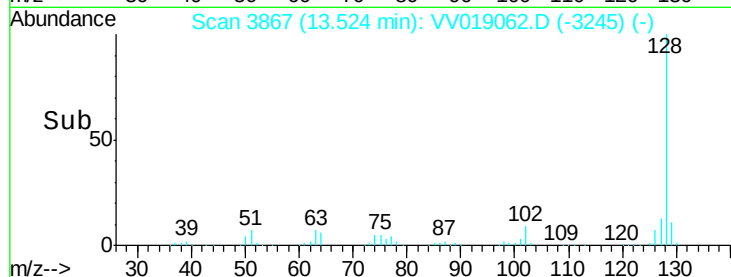
129 10.7 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.717 ug/L

RT: 13.76 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV019062.D

Acq: 21 Oct 2020 20:29

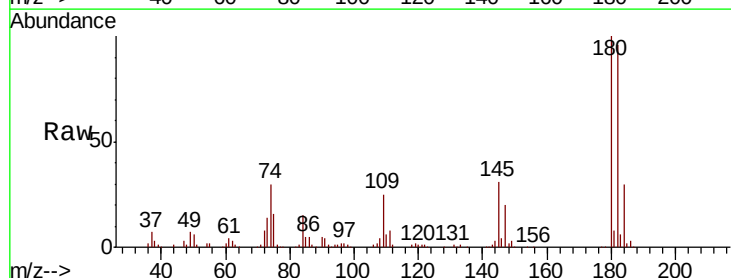
Tgt Ion:180 Resp: 132759

Ion Ratio Lower Upper

180 100

182 95.7 76.8 115.2

145 31.1 25.4 38.0



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

