

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV072320\  
 Data File : VV017640.D  
 Acq On : 24 Jul 2020 10:54  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

Quant Time: Jul 24 12:22:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 24 12:19:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 166196   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 160610   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 91540    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 36073    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.00%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 29527    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 88086    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.00%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 85712    | 45.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 90.30%  |
| 24) Chloroform-d               | 4.37   | 84    | 96473    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 26) 1,2-Dichloroethane-d4      | 5.05   | 65    | 48350    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.60%  |
| 32) Benzene-d6                 | 5.07   | 84    | 168235   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 46668    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.80%  |
| 41) Toluene-d8                 | 7.33   | 98    | 166131   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 20965    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.00%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 60535    | 43.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.60%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 32991    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.40%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 65653    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80%  |

## Target Compounds

|                                |      |     |        |               | Qvalue |
|--------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.13 | 85  | 92382  | 5.073 ug/L    | 97     |
| 3) Chloromethane               | 1.24 | 50  | 58143  | 4.908 ug/L    | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 59105  | 4.978 ug/L    | 98     |
| 6) Bromomethane                | 1.53 | 94  | 35767  | 4.687 ug/L    | 97     |
| 8) Chloroethane                | 1.59 | 64  | 34084  | 4.973 ug/L    | 98     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 114182 | 5.377 ug/L    | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 50833  | 5.125 ug/L    | 96     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 46399  | 5.184 ug/L    | 95     |
| 13) Acetone                    | 2.23 | 43  | 46407  | 31.226 ug/L   | 78     |
| 14) Carbon disulfide           | 2.30 | 76  | 139167 | 5.115 ug/L    | 97     |
| 15) Methyl Acetate             | 2.46 | 43  | 16198  | 5.601 ug/L #  | 82     |
| 16) Methylene chloride         | 2.52 | 84  | 46985  | 4.718 ug/L    | 93     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 116883 | 5.095 ug/L    | 97     |
| 18) trans-1,2-Dichloroethene   | 2.77 | 96  | 49977  | 5.125 ug/L    | 98     |
| 19) 1,1-Dichloroethane         | 3.20 | 63  | 90265  | 4.402 ug/L    | 98     |
| 21) 2-Butanone                 | 4.04 | 43  | 114028 | 45.438 ug/L # | 66     |
| 22) cis-1,2-Dichloroethene     | 3.93 | 96  | 61667  | 5.022 ug/L    | 96     |

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 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 50 Sample Multiplier: 1

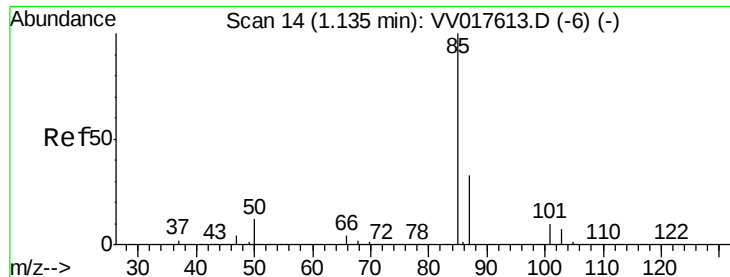
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

Quant Time: Jul 24 12:22:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 24 12:19:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 27865    | 4.924  | ug/L  | 90       |
| 25) Chloroform                 | 4.40  | 83   | 118012   | 5.127  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 75816    | 5.080  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 114955   | 5.116  | ug/L  | 99       |
| 30) Cyclohexane                | 4.69  | 56   | 83140    | 4.670  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.84  | 117  | 103416   | 5.174  | ug/L  | 99       |
| 33) Benzene                    | 5.12  | 78   | 227825   | 5.011  | ug/L  | 100      |
| 34) Trichloroethene            | 5.93  | 95   | 63687    | 5.015  | ug/L  | 92       |
| 35) Methylcyclohexane          | 6.15  | 83   | 90330    | 4.702  | ug/L  | 97       |
| 37) 1,2-Dichloropropane        | 6.19  | 63   | 50714    | 4.747  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 80884    | 5.146  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 76754    | 4.763  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 279938   | 47.787 | ug/L  | 98       |
| 42) Toluene                    | 7.41  | 91   | 254395   | 5.130  | ug/L  | 99       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 244368   | 5.277  | ug/L  | 98       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 251913   | 5.325  | ug/L  | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 71672    | 4.954  | ug/L  | 98       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 39185    | 4.836  | ug/L  | 93       |
| 49) Tetrachloroethene          | 7.99  | 164  | 56959    | 5.087  | ug/L  | 95       |
| 50) 2-Hexanone                 | 8.16  | 43   | 203052   | 48.987 | ug/L  | 98       |
| 51) Dibromochloromethane       | 8.26  | 129  | 54405    | 5.275  | ug/L  | 100      |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 37154    | 4.859  | ug/L  | 99       |
| 53) Chlorobenzene              | 8.90  | 112  | 167159   | 5.056  | ug/L  | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 285404   | 5.140  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 109179   | 5.221  | ug/L  | 97       |
| 56) o-xylene                   | 9.56  | 106  | 104044   | 5.127  | ug/L  | 95       |
| 57) Styrene                    | 9.58  | 104  | 179434   | 5.299  | ug/L  | 98       |
| 58) Isopropylbenzene           | 9.95  | 105  | 290727   | 5.193  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 43539    | 4.931  | ug/L  | 97       |
| 62) Bromoform                  | 9.75  | 173  | 28679    | 4.895  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 146940   | 4.986  | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 144028   | 4.870  | ug/L  | 99       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 131744   | 4.907  | ug/L  | 100      |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7561     | 4.504  | ug/L  | 99       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 118184   | 4.936  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.28 | 180  | 95093    | 4.749  | ug/L  | 99       |
| 70) Naphthalene                | 13.53 | 128  | 127743   | 4.575  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 84212    | 4.746  | ug/L  | 96       |

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





#2

Dichlorodifluoromethane

Concen: 5.073 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampled :

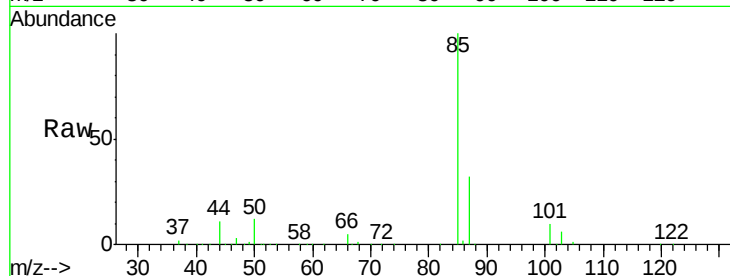
VSTD00556

Tgt Ion: 85 Resp: 92382

Ion Ratio Lower Upper

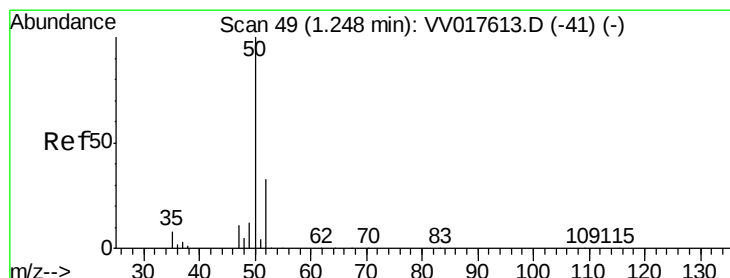
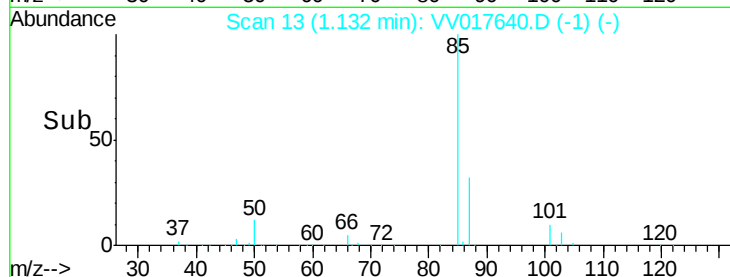
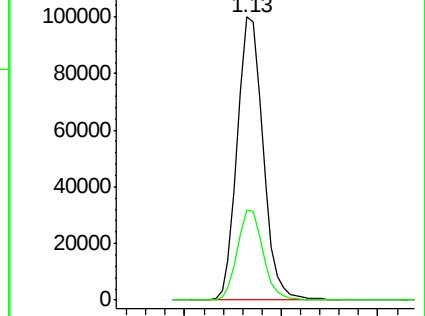
85 100

87 31.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.908 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.00 min

Lab File: VV017640.D

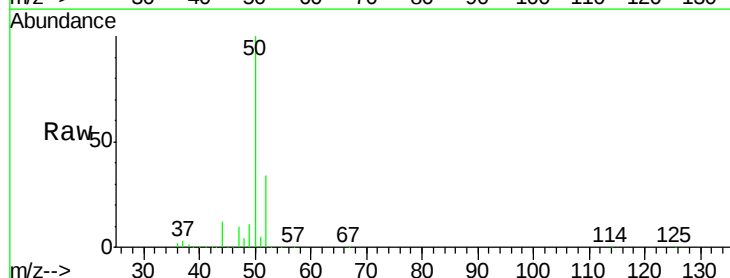
Acq: 24 Jul 2020 10:54

Tgt Ion: 50 Resp: 58143

Ion Ratio Lower Upper

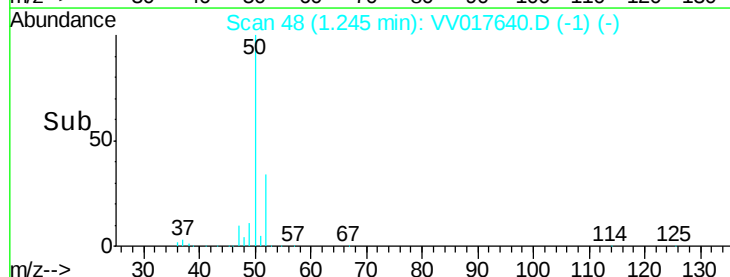
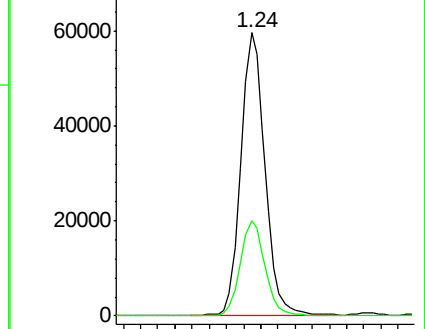
50 100

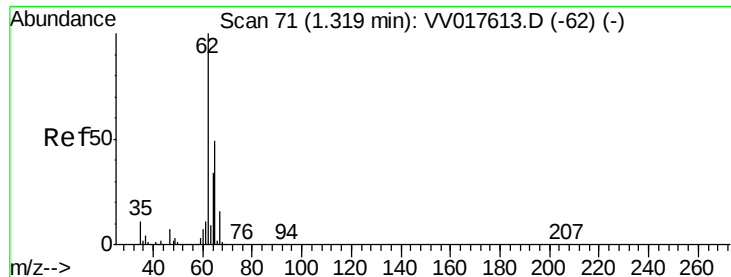
52 33.8 25.1 46.5



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.978 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

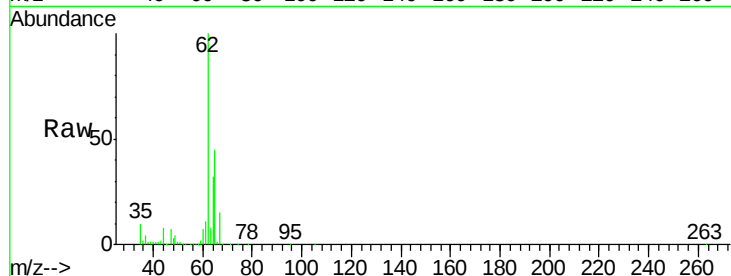
VSTD00556

Tgt Ion: 62 Resp: 59105

Ion Ratio Lower Upper

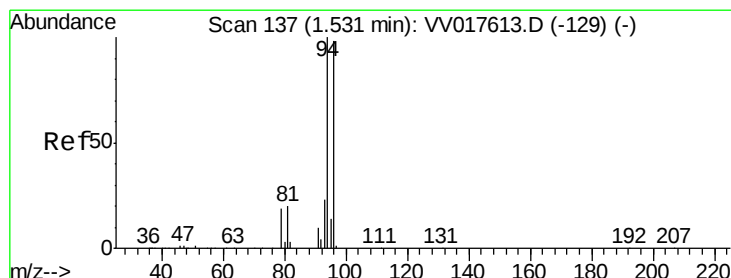
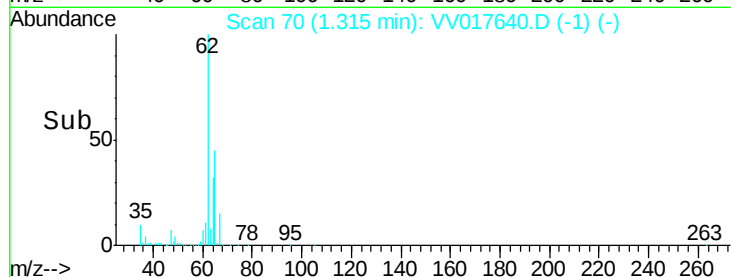
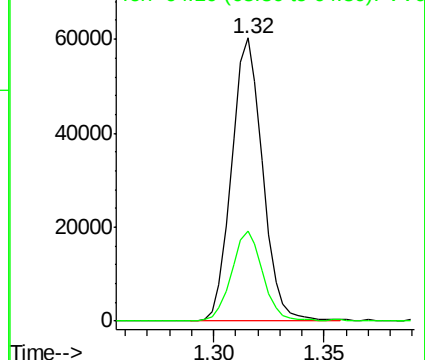
62 100

64 32.0 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 4.687 ug/L

RT: 1.53 min Scan# 136

Delta R.T. -0.00 min

Lab File: VV017640.D

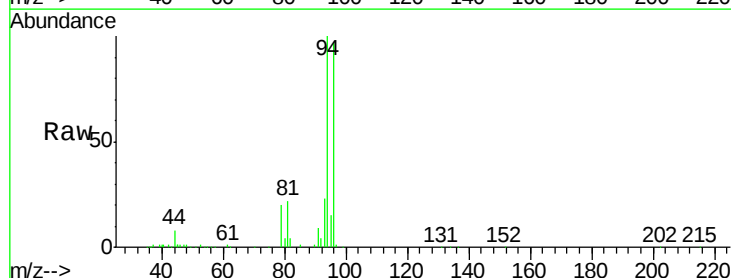
Acq: 24 Jul 2020 10:54

Tgt Ion: 94 Resp: 35767

Ion Ratio Lower Upper

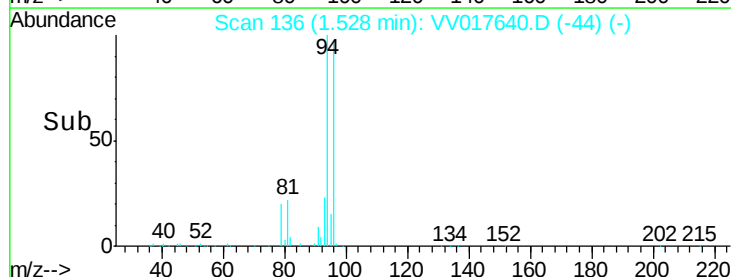
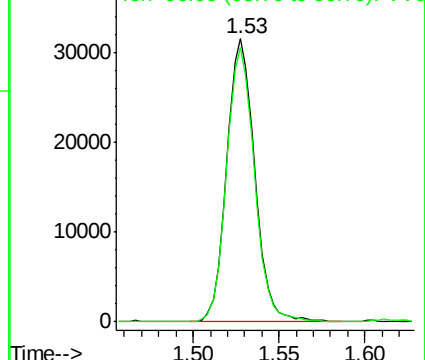
94 100

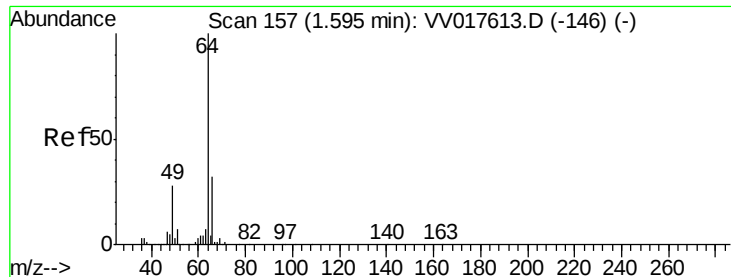
96 97.1 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

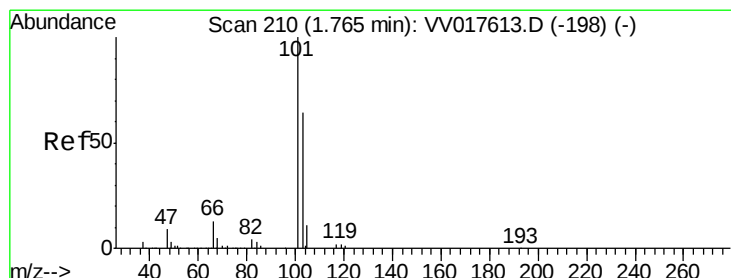
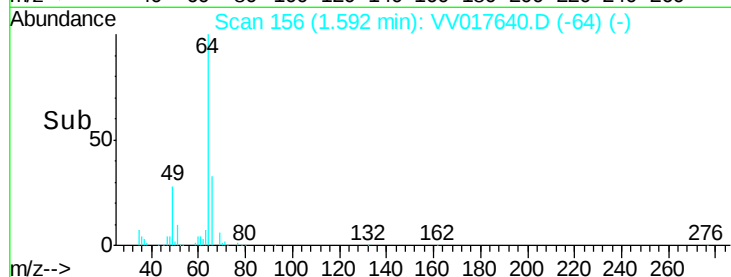
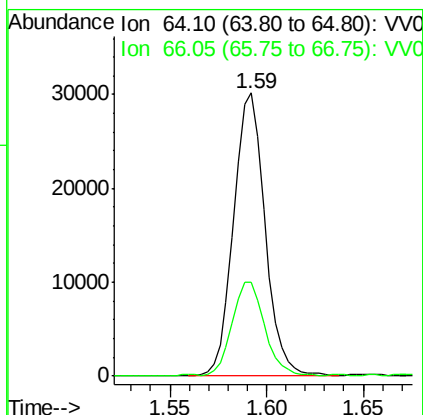
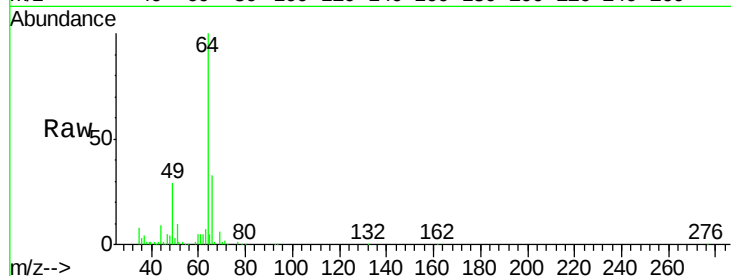




#8  
Chloroethane  
Concen: 4.973 ug/L  
RT: 1.59 min Scan# 156  
Delta R.T. -0.00 min  
Lab File: VV017640.D  
Acq: 24 Jul 2020 10:54

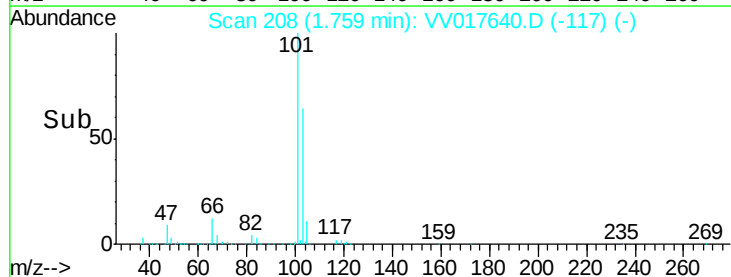
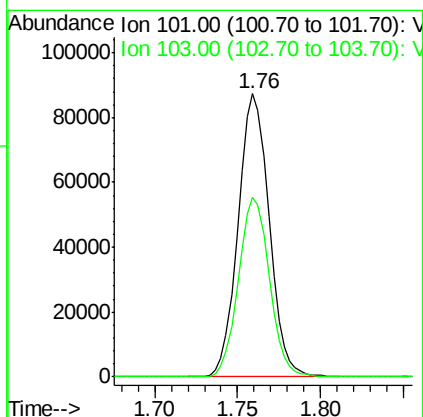
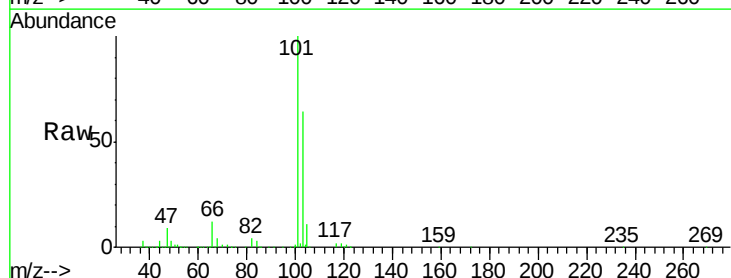
Instrument :  
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VSTD00556

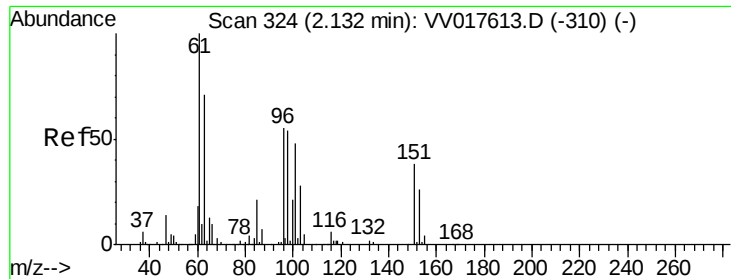
Tgt Ion: 64 Resp: 34084  
Ion Ratio Lower Upper  
64 100  
66 33.1 24.0 44.6



#9  
Trichlorofluoromethane  
Concen: 5.377 ug/L  
RT: 1.76 min Scan# 208  
Delta R.T. -0.01 min  
Lab File: VV017640.D  
Acq: 24 Jul 2020 10:54

Tgt Ion: 101 Resp: 114182  
Ion Ratio Lower Upper  
101 100  
103 63.3 51.7 77.5





#10

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

Concen: 5.125 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00556

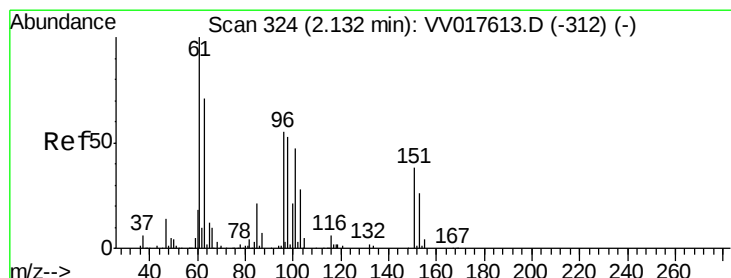
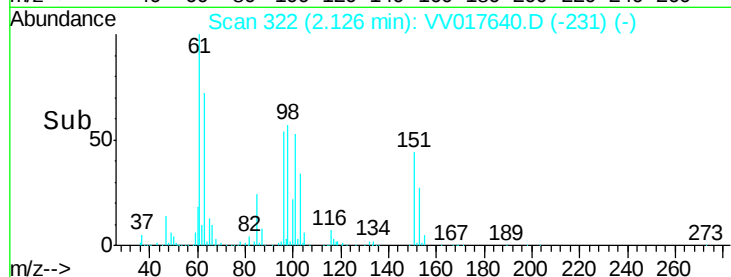
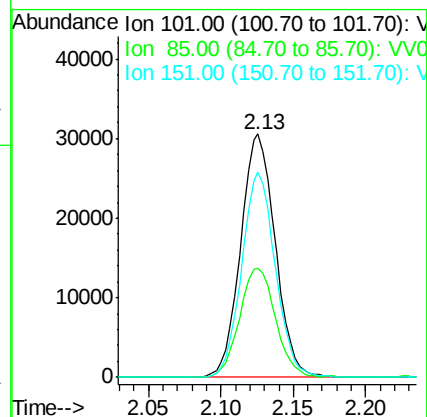
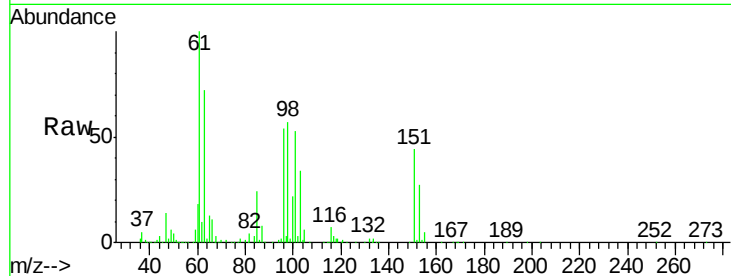
Tgt Ion: 101 Resp: 50833

Ion Ratio Lower Upper

101 100

85 46.5 34.6 51.8

151 81.8 63.5 95.3



#12

1,1-Dichloroethene

Concen: 5.184 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

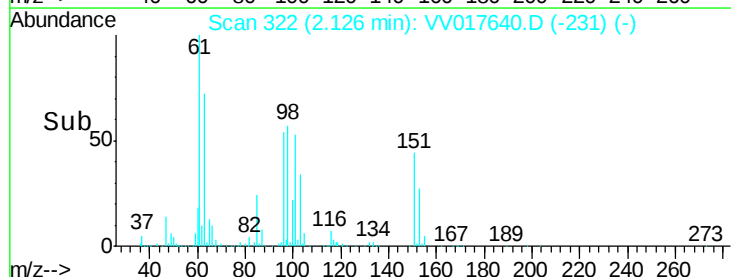
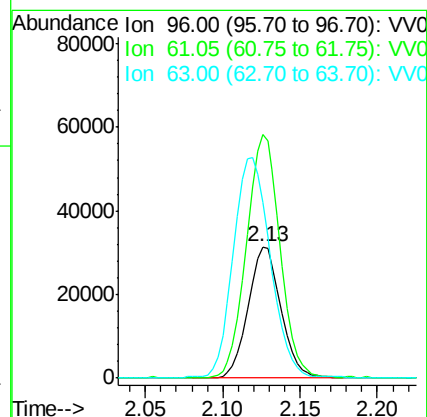
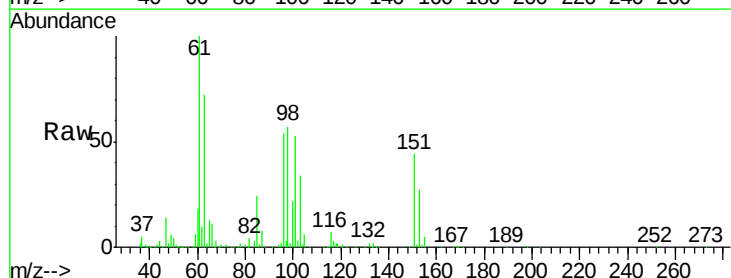
Tgt Ion: 96 Resp: 46399

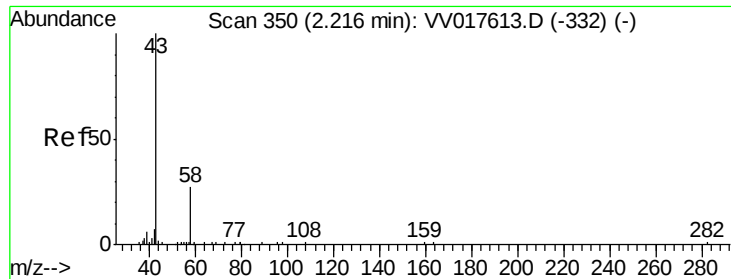
Ion Ratio Lower Upper

96 100

61 185.1 123.1 228.7

63 133.6 91.2 169.4





#13

Acetone

Concen: 31.226 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

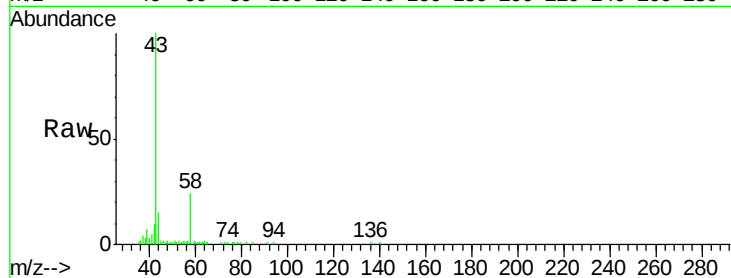
VSTD00556

Tgt Ion: 43 Resp: 46407

Ion Ratio Lower Upper

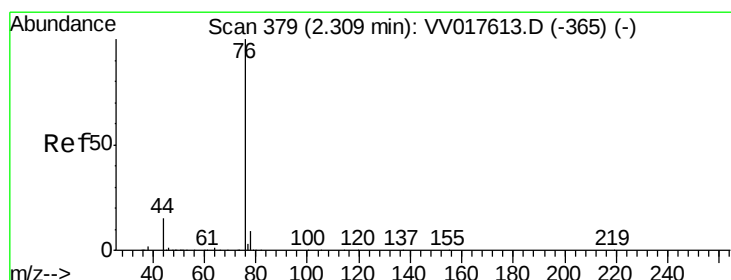
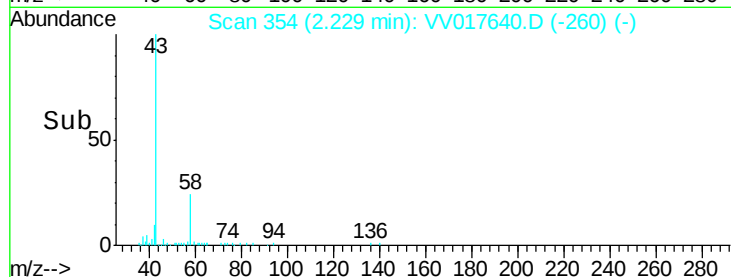
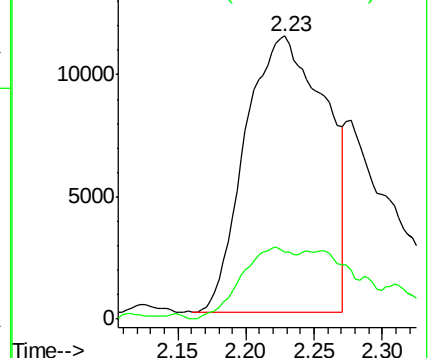
43 100 0.0 18.6

58 17.3 0.0 18.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 5.115 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.01 min

Lab File: VV017640.D

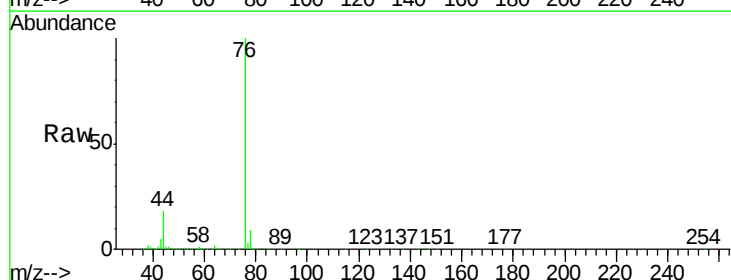
Acq: 24 Jul 2020 10:54

Tgt Ion: 76 Resp: 139167

Ion Ratio Lower Upper

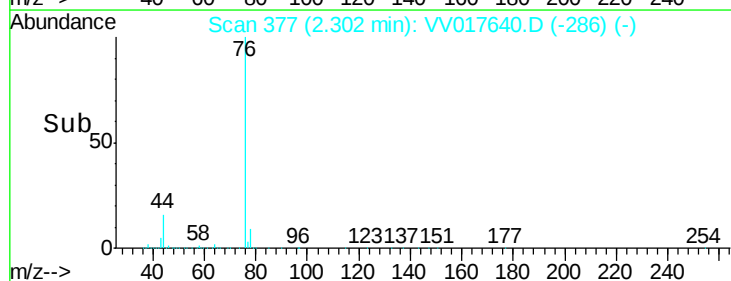
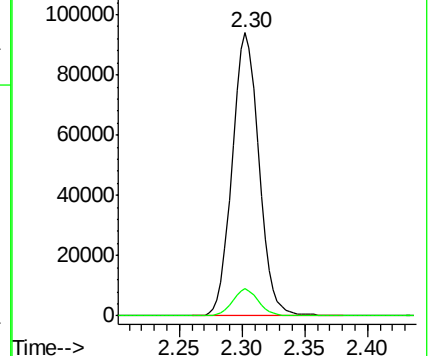
76 100 6.6 10.0

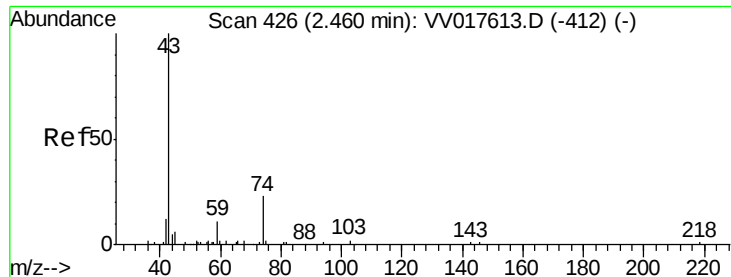
78 9.5 6.6 10.0



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 5.601 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

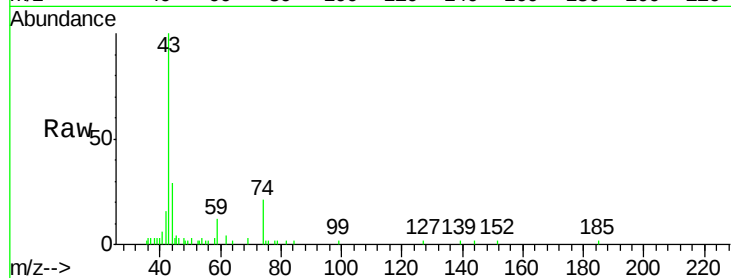
VSTD00556

Tgt Ion: 43 Resp: 16198

Ion Ratio Lower Upper

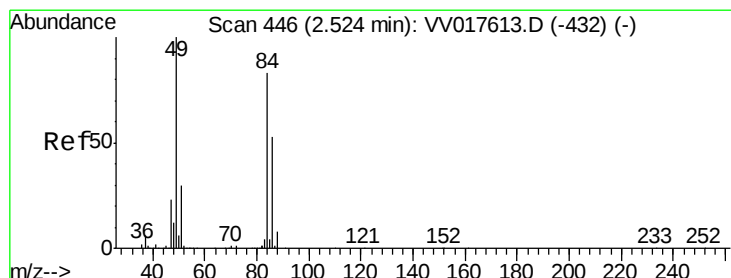
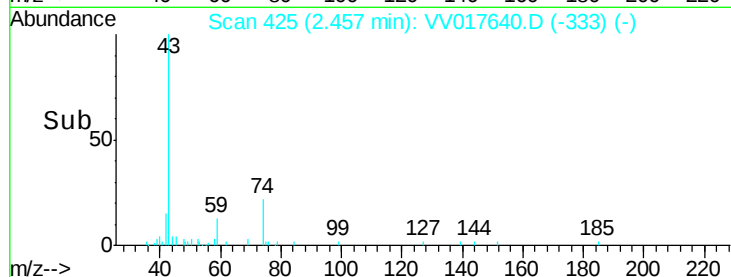
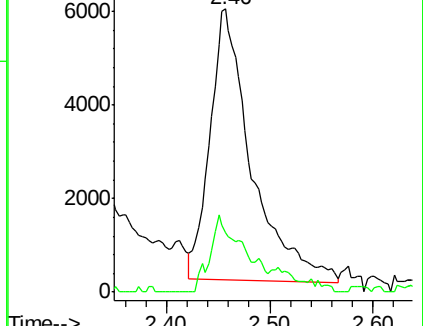
43 100

74 23.0 26.6 40.0#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 4.718 ug/L

RT: 2.52 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

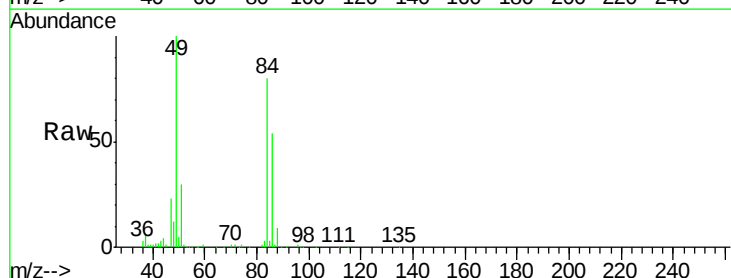
Tgt Ion: 84 Resp: 46985

Ion Ratio Lower Upper

84 100

86 67.6 46.5 86.3

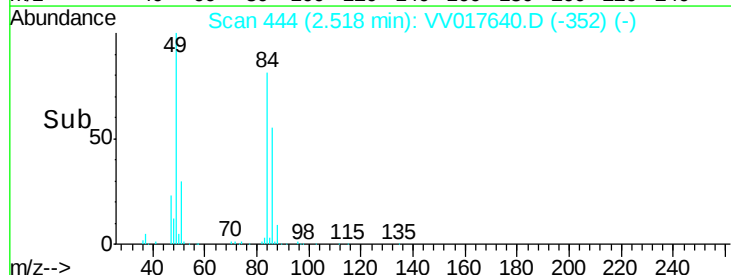
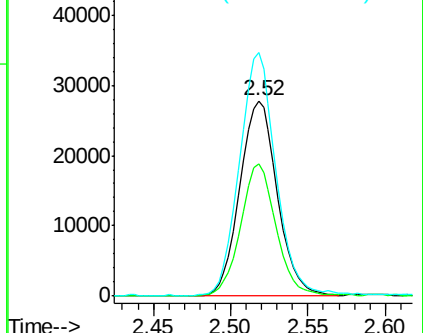
49 124.5 79.2 147.2

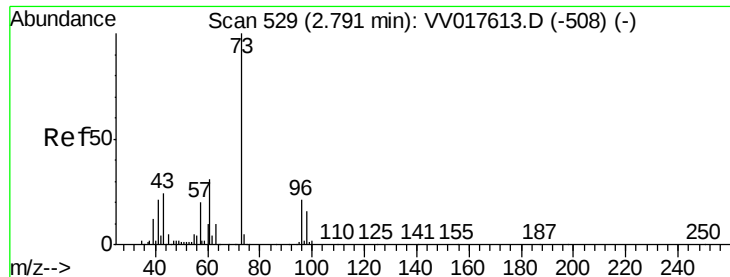


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#17

Methyl tert-butyl Ether

Concen: 5.095 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00556

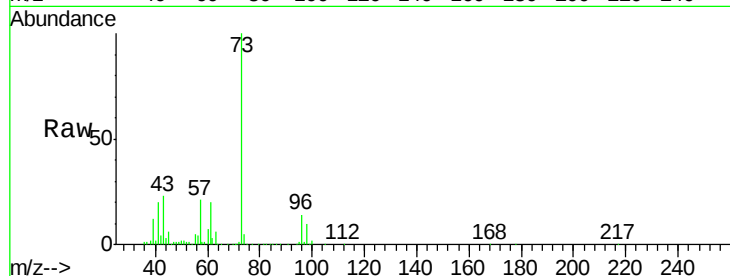
Tgt Ion: 73 Resp: 116883

Ion Ratio Lower Upper

73 100

43 23.4 18.3 27.5

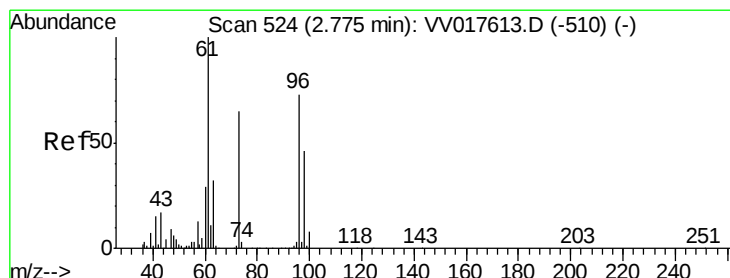
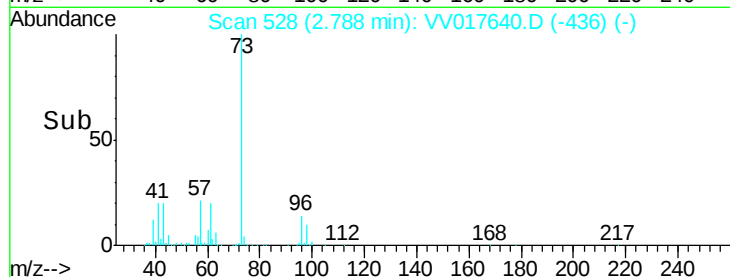
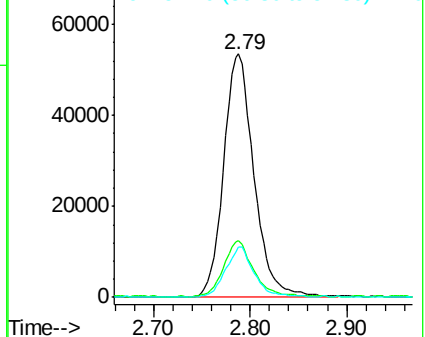
57 19.0 16.7 25.1



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 5.125 ug/L

RT: 2.77 min Scan# 522

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

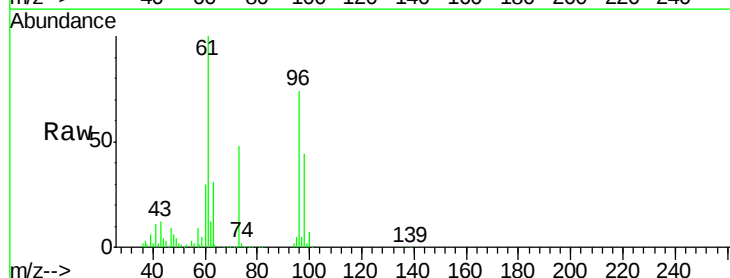
Tgt Ion: 96 Resp: 49977

Ion Ratio Lower Upper

96 100

61 135.3 96.0 178.4

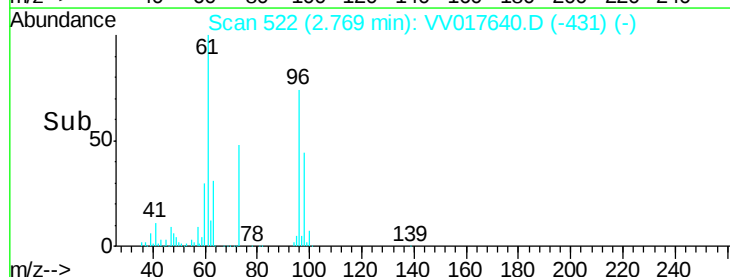
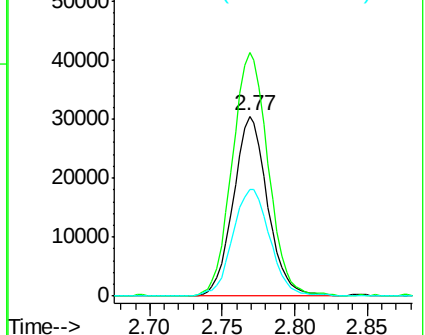
98 59.5 43.5 80.9

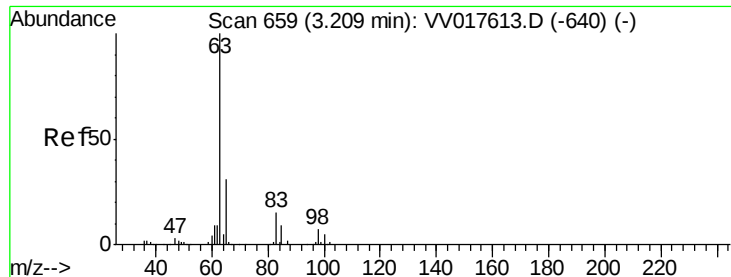


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

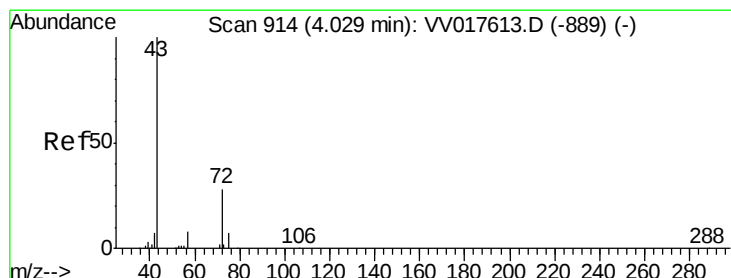
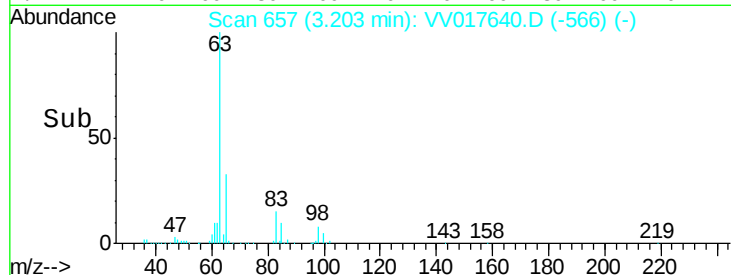
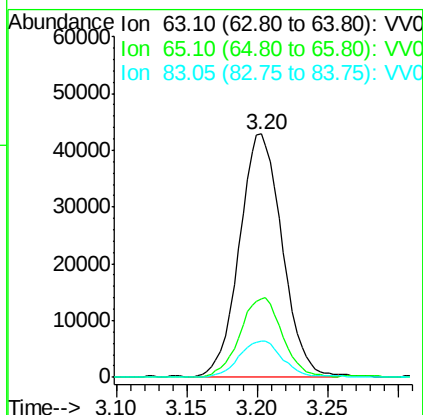
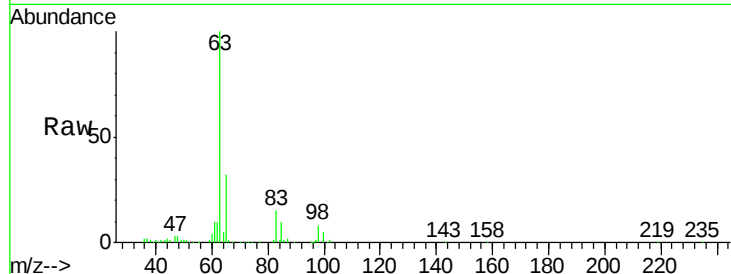




#19  
 1,1-Dichloroethane  
 Concen: 4.402 ug/L  
 RT: 3.20 min Scan# 657  
 Delta R.T. -0.01 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

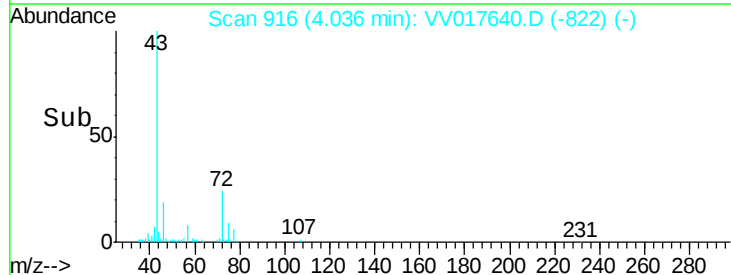
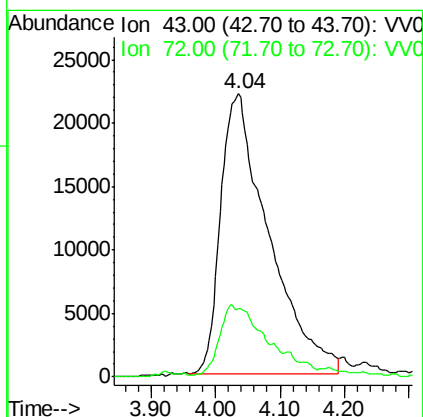
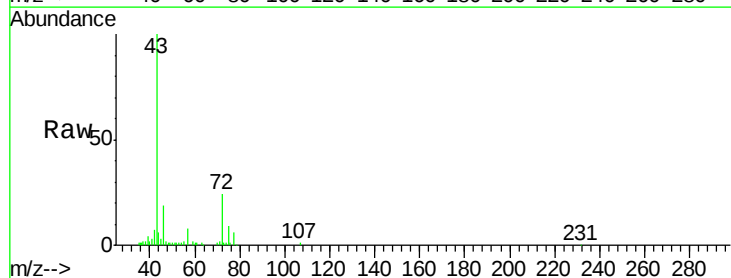
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

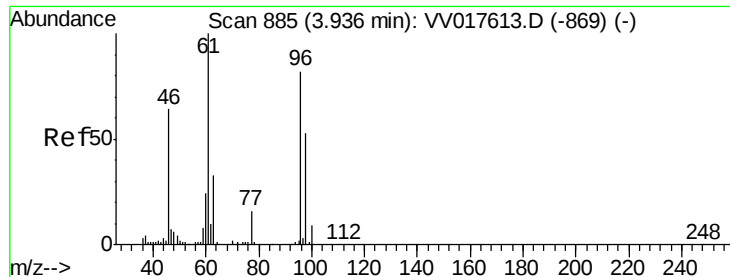
Tgt Ion: 63 Resp: 90265  
 Ion Ratio Lower Upper  
 63 100  
 65 32.4 21.4 39.8  
 83 15.1 10.4 19.4



#21  
 2-Butanone  
 Concen: 45.438 ug/L  
 RT: 4.04 min Scan# 916  
 Delta R.T. 0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Tgt Ion: 43 Resp: 114028  
 Ion Ratio Lower Upper  
 43 100  
 72 8.8 13.0 38.9#



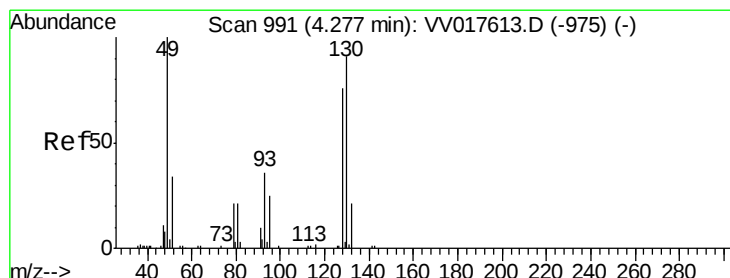
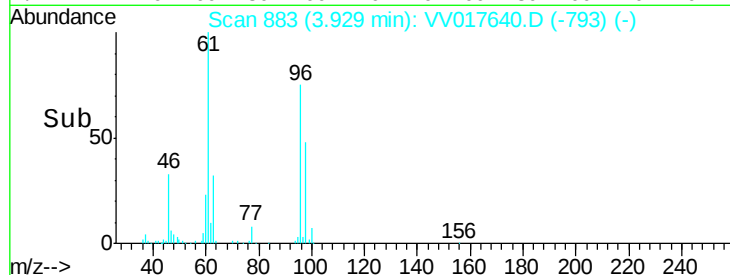
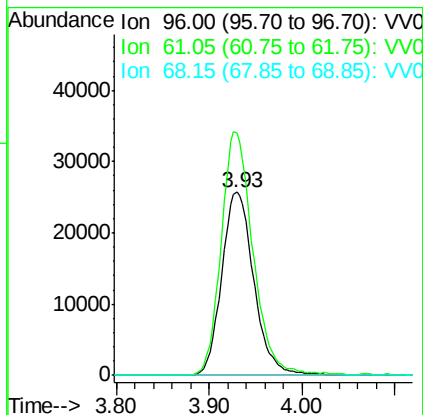
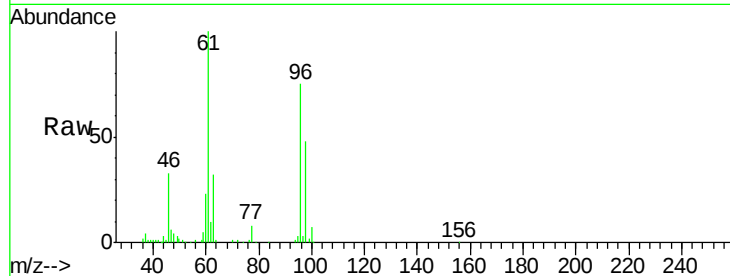


#22

cis-1,2-Dichloroethene  
Concen: 5.022 ug/L  
RT: 3.93 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: VV017640.D  
Acq: 24 Jul 2020 10:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00556

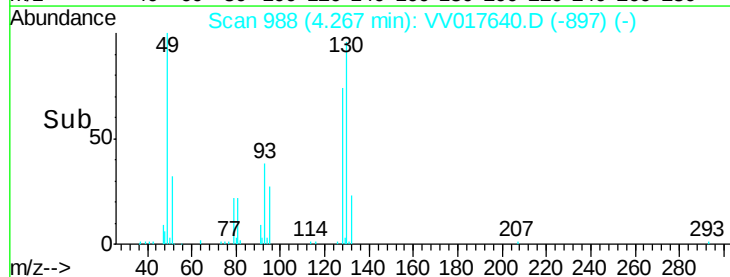
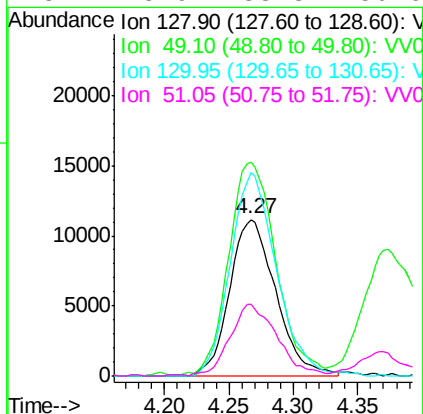
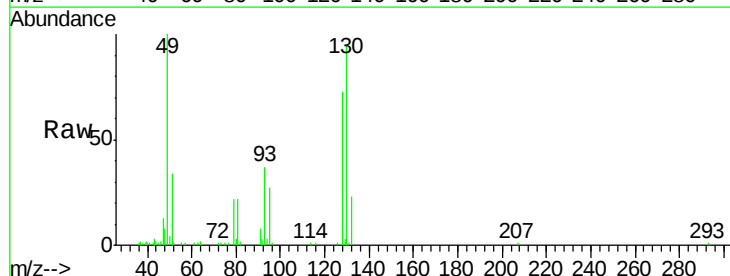
Tgt Ion: 96 Resp: 61667  
Ion Ratio Lower Upper  
96 100  
61 132.5 89.6 166.4  
68 0.0 0.0 0.0

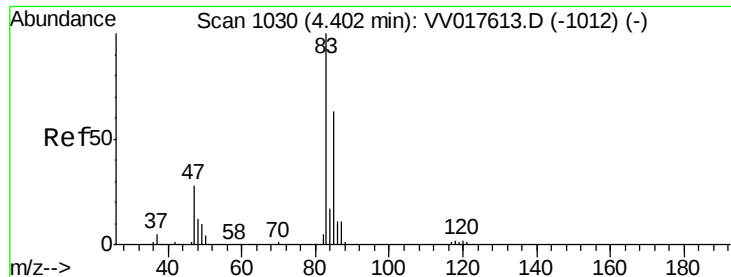


#23

Bromochloromethane  
Concen: 4.924 ug/L  
RT: 4.27 min Scan# 988  
Delta R.T. -0.01 min  
Lab File: VV017640.D  
Acq: 24 Jul 2020 10:54

Tgt Ion: 128 Resp: 27865  
Ion Ratio Lower Upper  
128 100  
49 136.5 92.2 171.2  
130 130.0 77.2 143.4  
51 45.9 33.8 50.6





#25

Chloroform

Concen: 5.127 ug/L

RT: 4.40 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

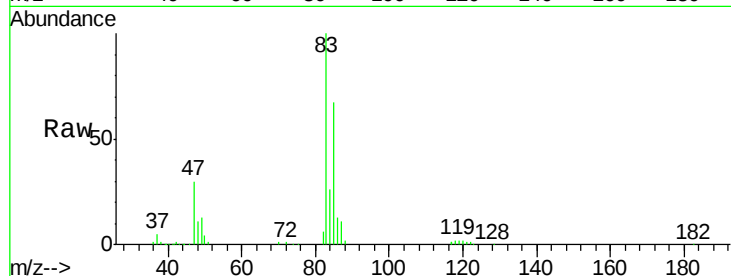
VSTD00556

Tgt Ion: 83 Resp: 118012

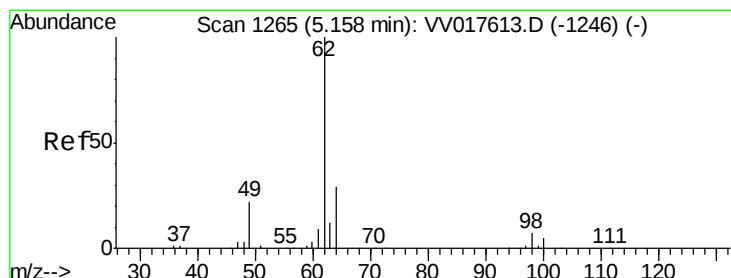
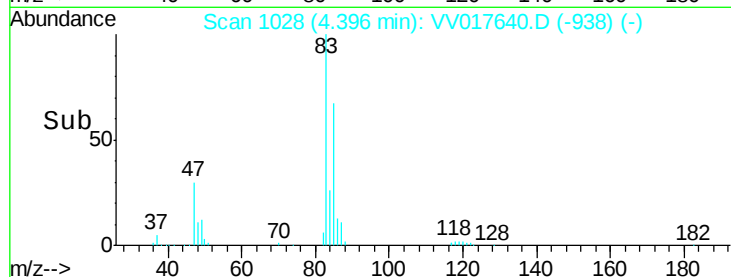
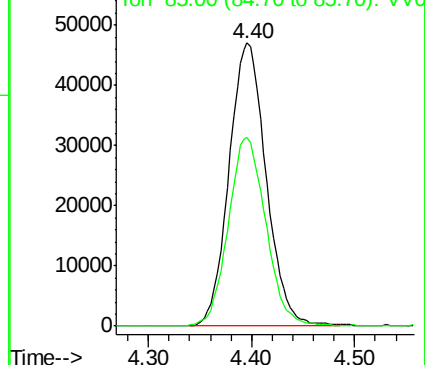
Ion Ratio Lower Upper

83 100

85 66.5 47.3 87.9



Abundance Ion 83.05 (82.75 to 83.75): VV017613.D (-1012) (-)



#27

1,2-Dichloroethane

Concen: 5.080 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VV017640.D

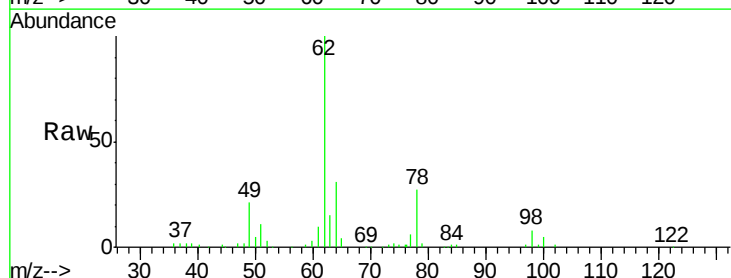
Acq: 24 Jul 2020 10:54

Tgt Ion: 62 Resp: 75816

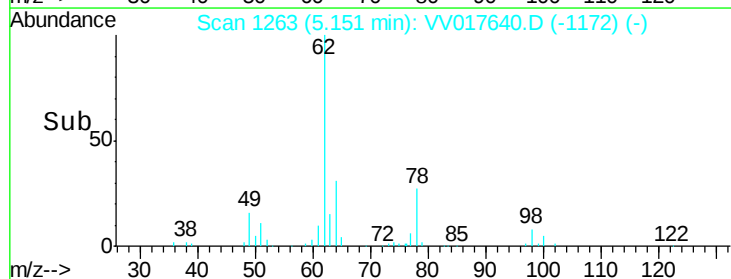
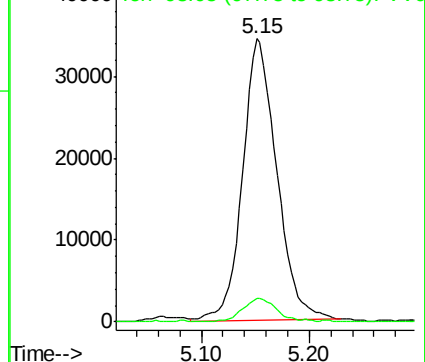
Ion Ratio Lower Upper

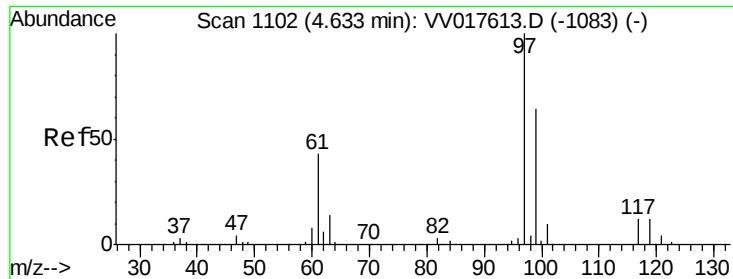
62 100

98 8.2 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VV017613.D (-1246) (-)

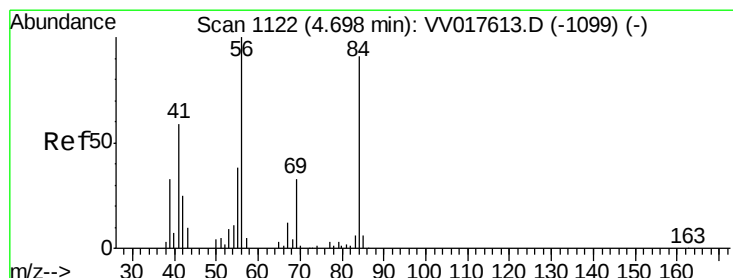
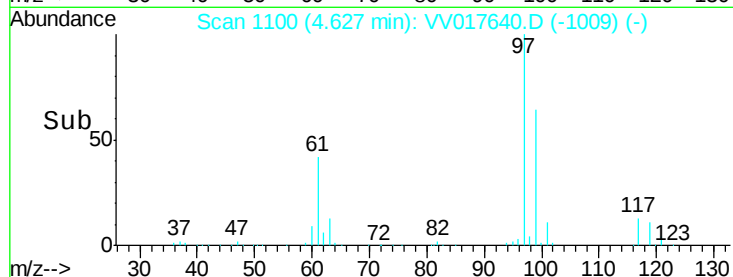
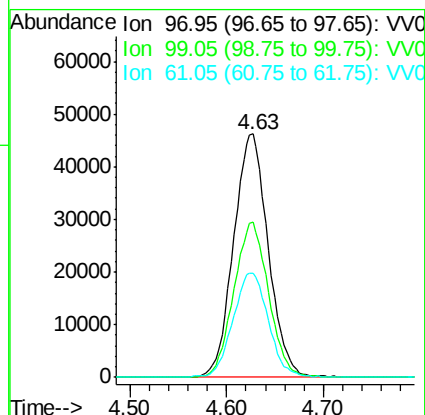
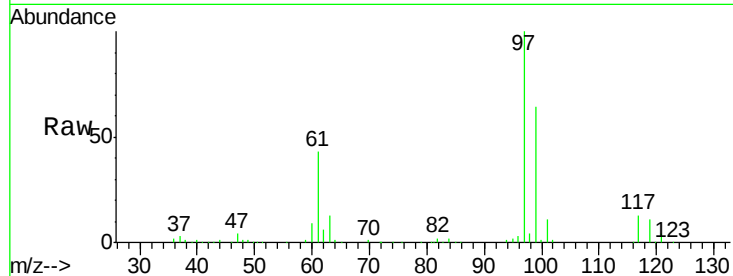




#29  
 1,1,1-Trichloroethane  
 Concen: 5.116 ug/L  
 RT: 4.63 min Scan# 1100  
 Delta R.T. -0.01 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

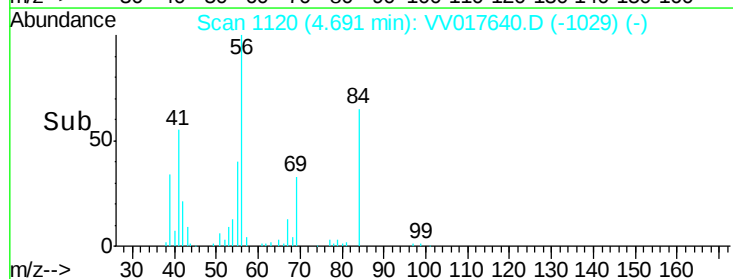
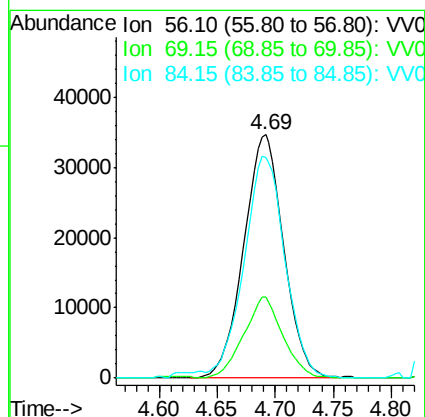
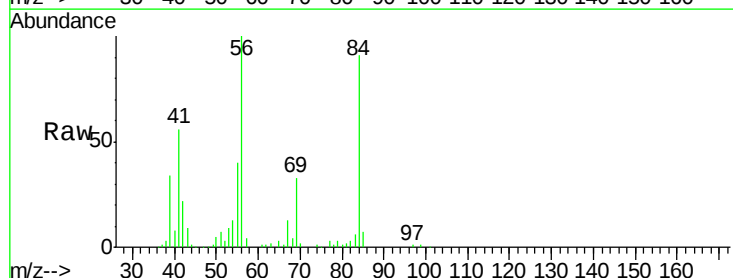
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD00556

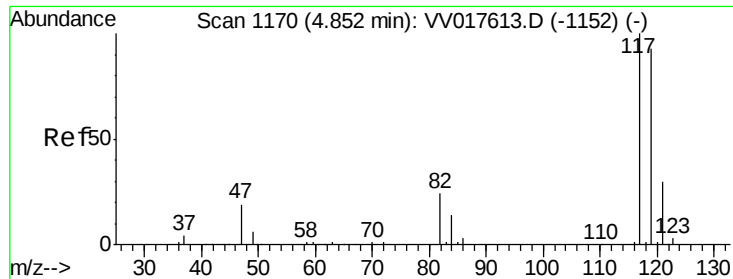
Tgt Ion: 97 Resp: 114955  
 Ion Ratio Lower Upper  
 97 100  
 99 64.0 50.6 76.0  
 61 43.7 35.7 53.5



#30  
 Cyclohexane  
 Concen: 4.670 ug/L  
 RT: 4.69 min Scan# 1120  
 Delta R.T. -0.01 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Tgt Ion: 56 Resp: 83140  
 Ion Ratio Lower Upper  
 56 100  
 69 32.6 25.4 38.2  
 84 93.5 73.0 109.4





#31

Carbon tetrachloride

Concen: 5.174 ug/L

RT: 4.84 min Scan# 1167

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

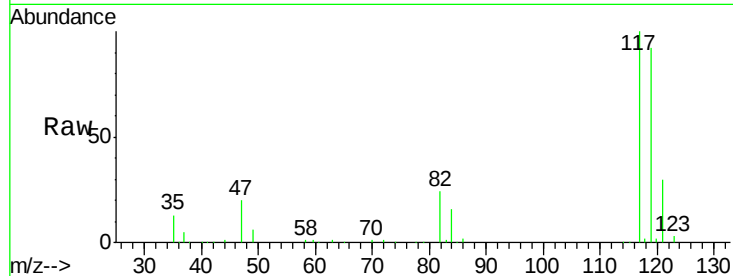
VSTD00556

Tgt Ion:117 Resp: 103416

Ion Ratio Lower Upper

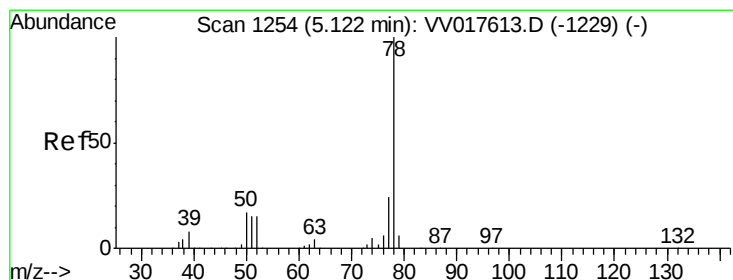
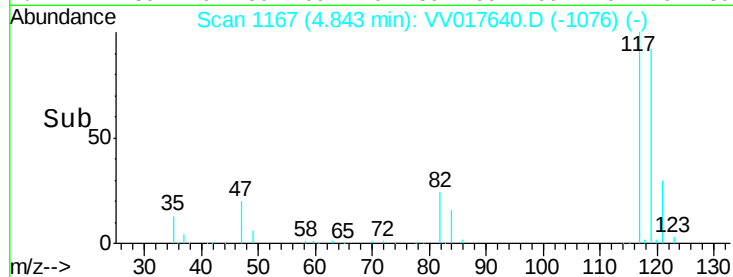
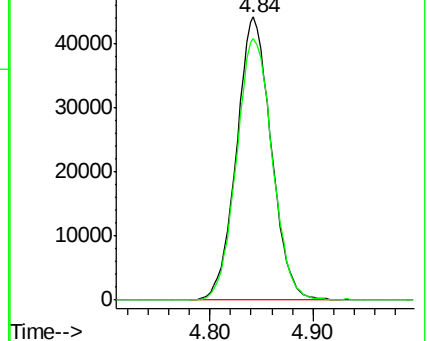
117 100

119 95.2 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.011 ug/L

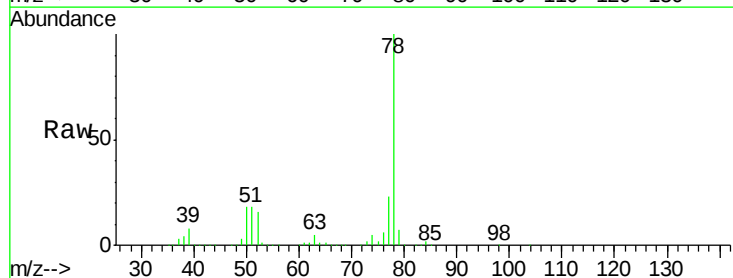
RT: 5.12 min Scan# 1252

Delta R.T. -0.01 min

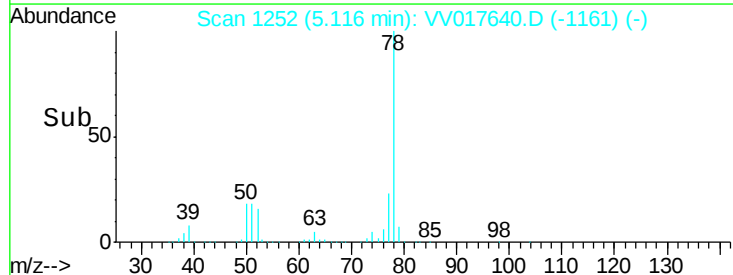
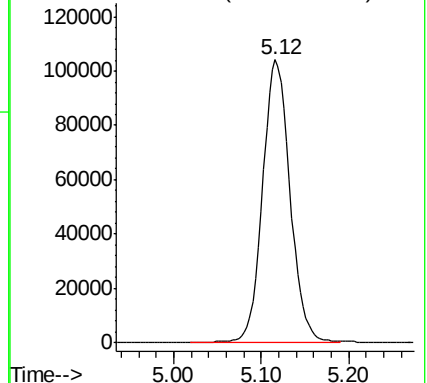
Lab File: VV017640.D

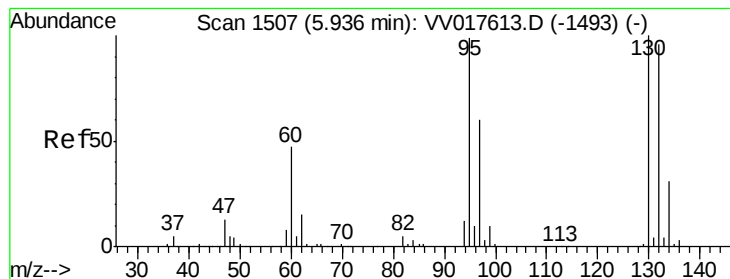
Acq: 24 Jul 2020 10:54

Tgt Ion: 78 Resp: 227825



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.015 ug/L

RT: 5.93 min Scan# 1505

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00556

Tgt Ion: 95 Resp: 63687

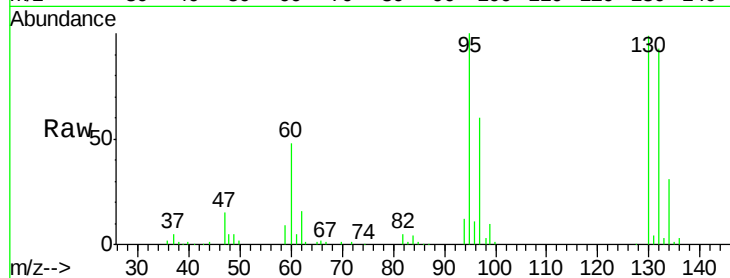
Ion Ratio Lower Upper

95 100

97 59.8 46.1 85.5

132 92.9 71.7 133.1

130 98.6 74.3 137.9

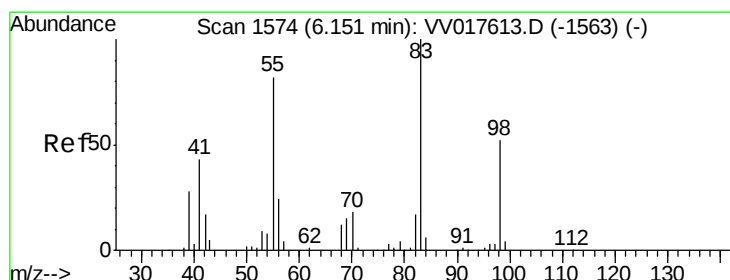
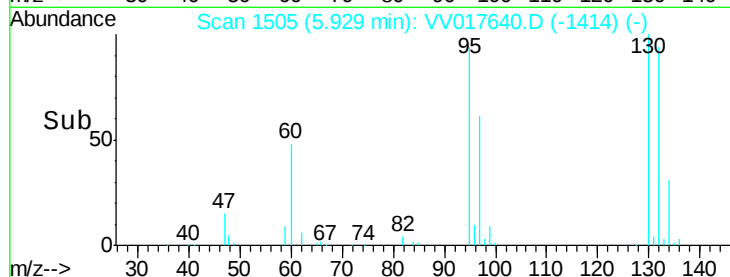
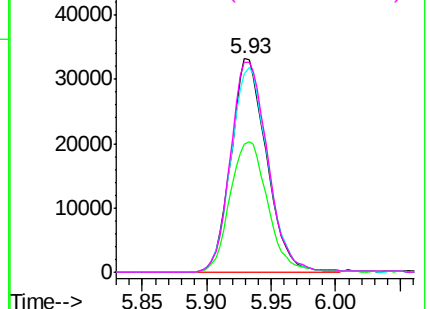


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.702 ug/L

RT: 6.15 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

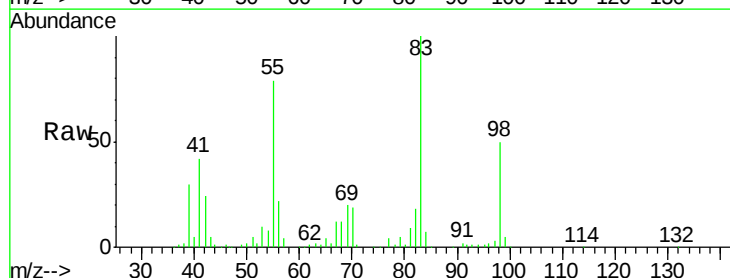
Tgt Ion: 83 Resp: 90330

Ion Ratio Lower Upper

83 100

55 80.0 61.8 92.8

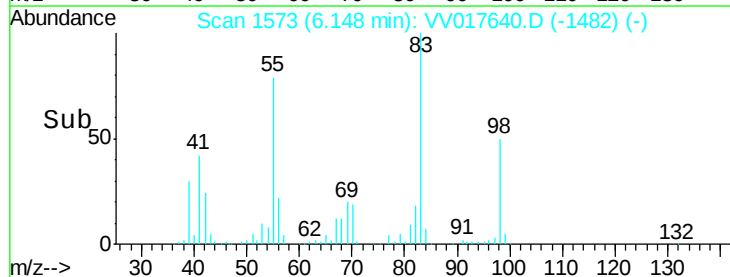
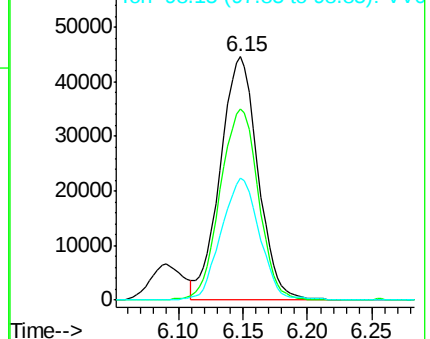
98 51.3 39.0 58.6

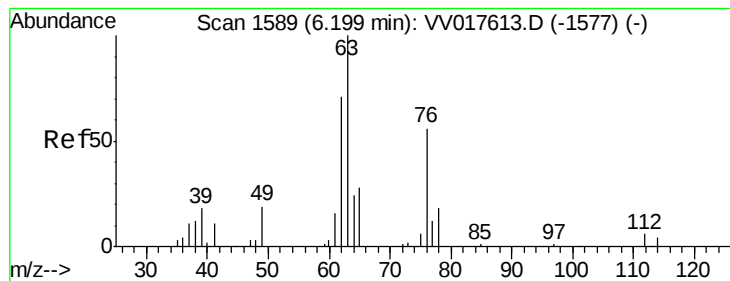


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.747 ug/L

RT: 6.19 min Scan# 1587

Delta R.T. -0.01 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

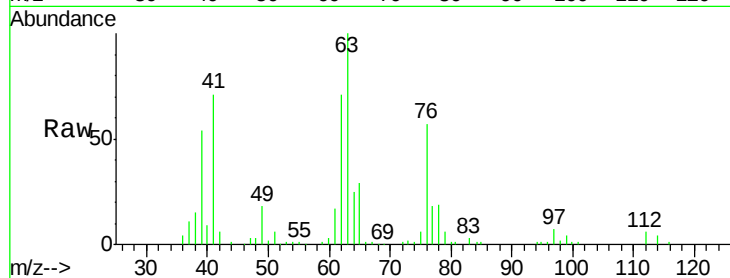
VSTD00556

Tgt Ion: 63 Resp: 50714

Ion Ratio Lower Upper

63 100

112 5.8 4.5 6.7



Abundance Ion 63.10 (62.80 to 63.80): VV017613.D (-1577) (-)

Ion 112.10 (111.80 to 112.80): VV017613.D (-1577) (-)

6.19

30000

25000

20000

15000

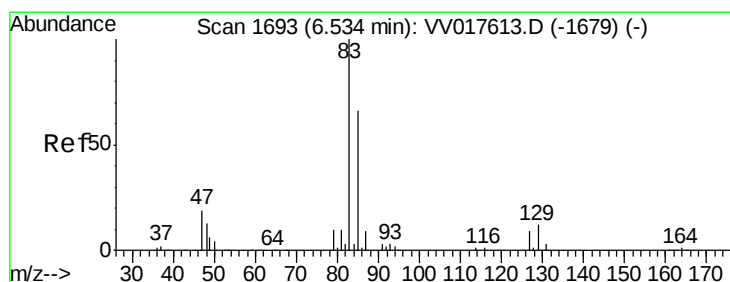
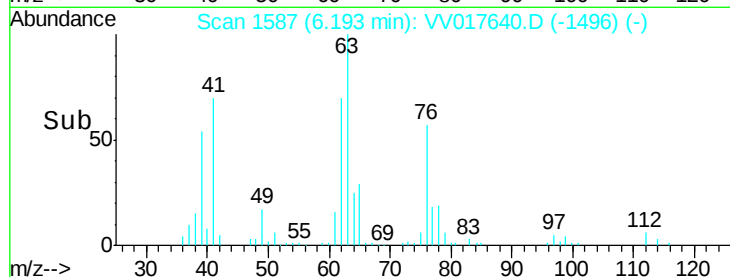
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 5.146 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

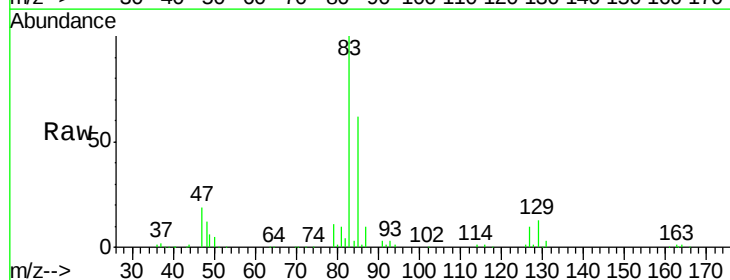
Tgt Ion: 83 Resp: 80884

Ion Ratio Lower Upper

83 100

85 61.9 44.7 83.1

127 10.0 7.4 11.0



Abundance Ion 82.95 (82.65 to 83.65): VV017613.D (-1679) (-)

Ion 85.00 (84.70 to 85.70): VV017613.D (-1679) (-)

Ion 126.90 (126.60 to 127.60): VV017613.D (-1679) (-)

6.53

50000

40000

30000

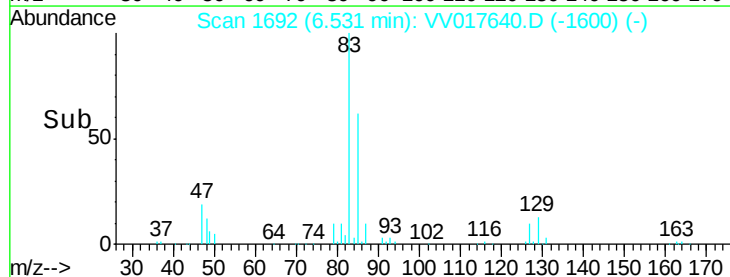
20000

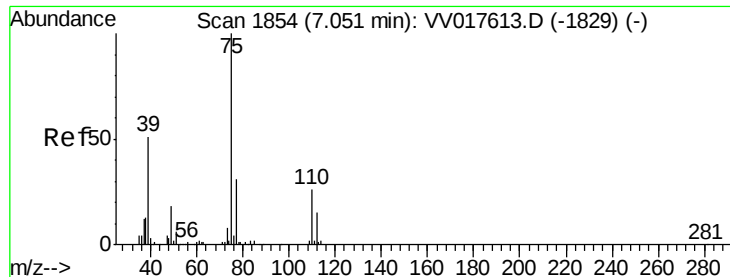
10000

0

6.45 6.50 6.55 6.60

Time-->





#39

cis-1,3-Dichloropropene

Concen: 4.763 ug/L

RT: 7.05 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

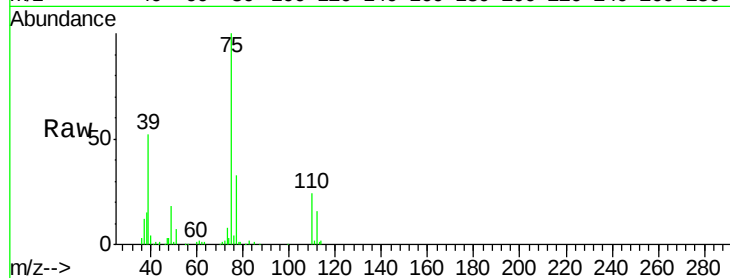
VSTD00556

Tgt Ion: 75 Resp: 76754

Ion Ratio Lower Upper

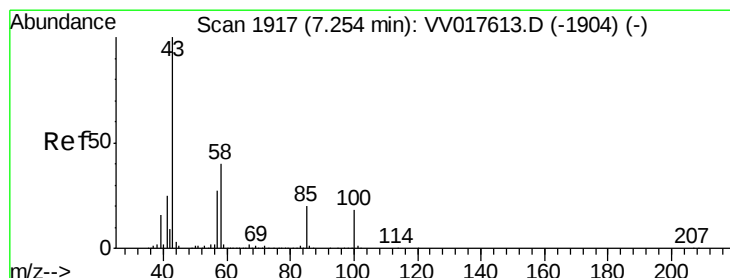
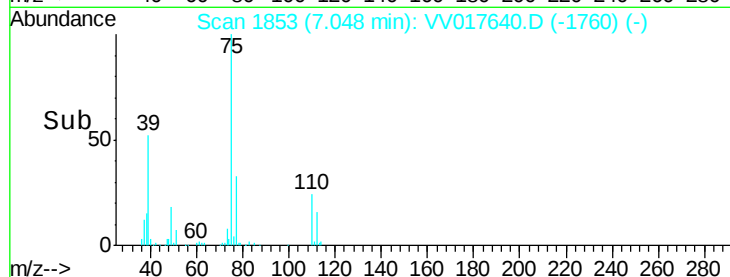
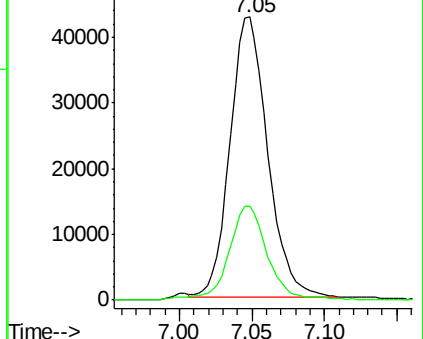
75 100

77 33.3 23.2 43.2



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 47.787 ug/L

RT: 7.25 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

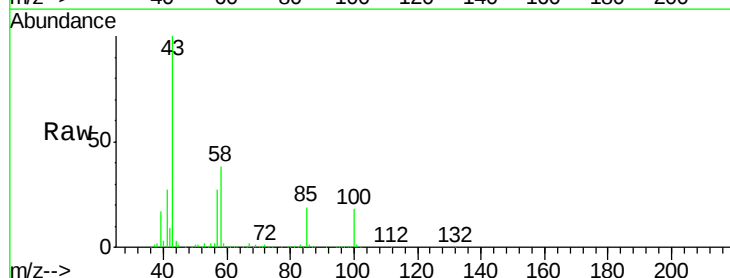
Tgt Ion: 43 Resp: 279938

Ion Ratio Lower Upper

43 100

58 38.2 31.2 46.8

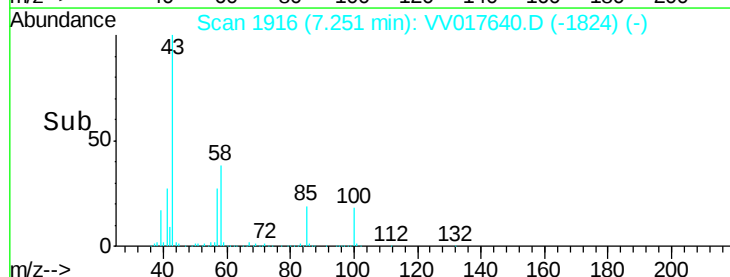
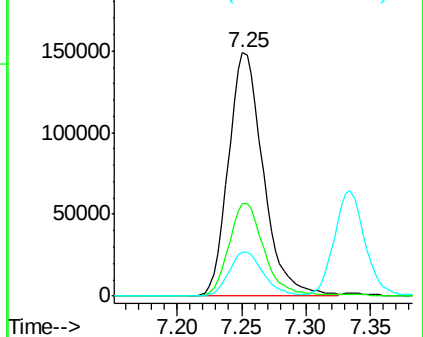
100 18.0 13.6 20.4

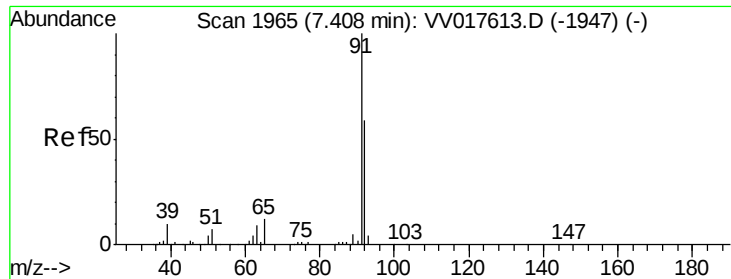


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.130 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

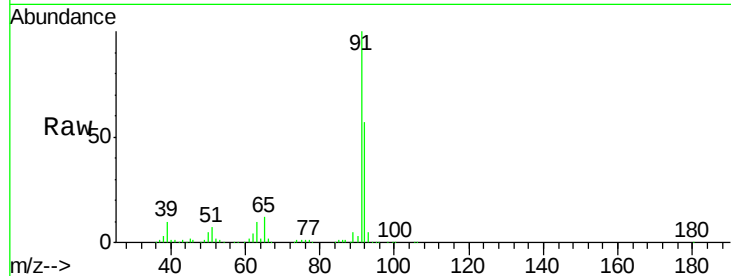
VSTD00556

Tgt Ion: 91 Resp: 254395

Ion Ratio Lower Upper

91 100

92 57.2 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV017613.D (-1947) (-)

Ion 92.15 (91.85 to 92.85): VV017613.D (-1947) (-)

7.41

150000

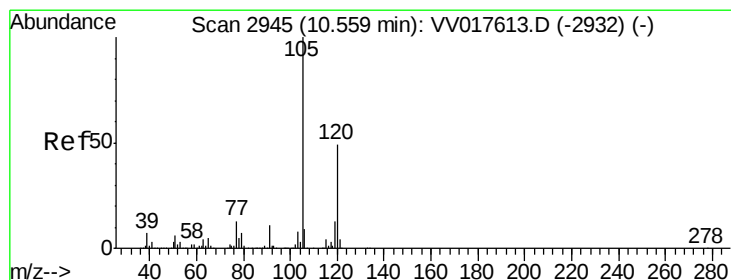
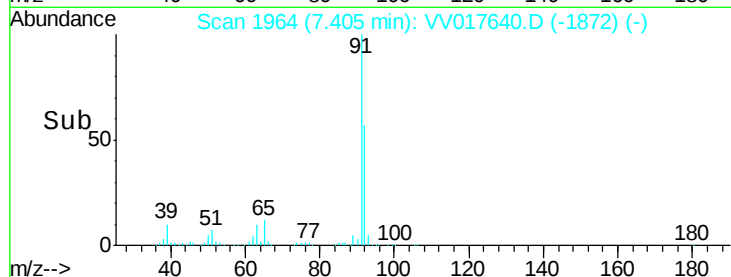
100000

50000

0

7.35 7.40 7.45 7.50

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 5.277 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV017640.D

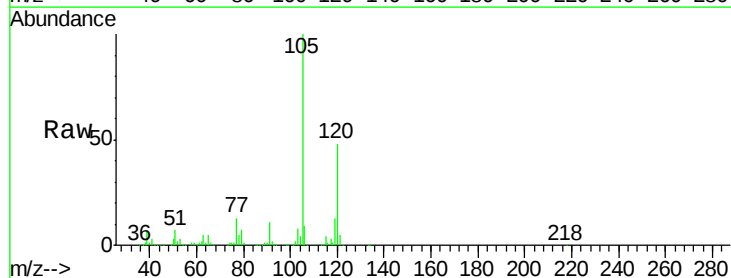
Acq: 24 Jul 2020 10:54

Tgt Ion: 105 Resp: 244368

Ion Ratio Lower Upper

105 100

120 48.0 39.4 59.2



Abundance Ion 105.00 (104.70 to 105.70): VV017613.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017613.D (-2932) (-)

10.56

150000

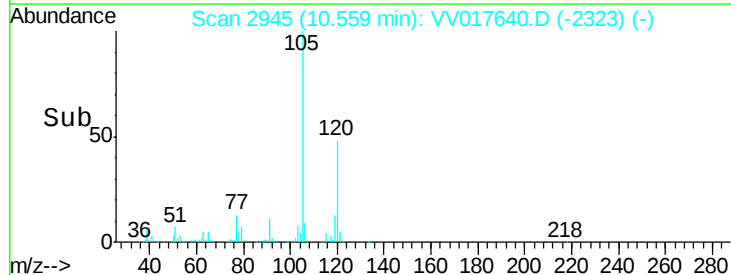
100000

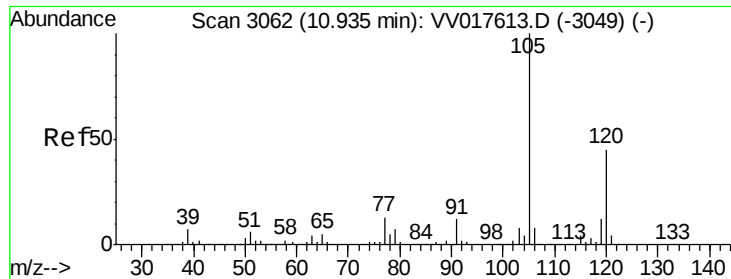
50000

0

10.50 10.55 10.60

Time-->

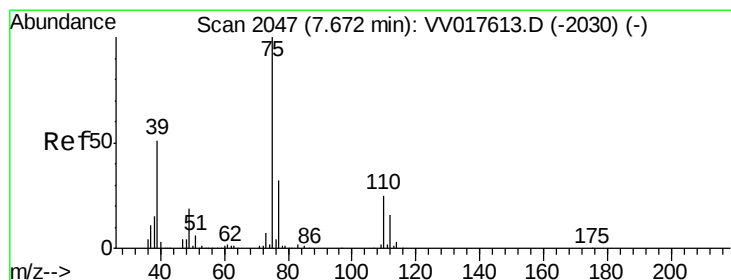
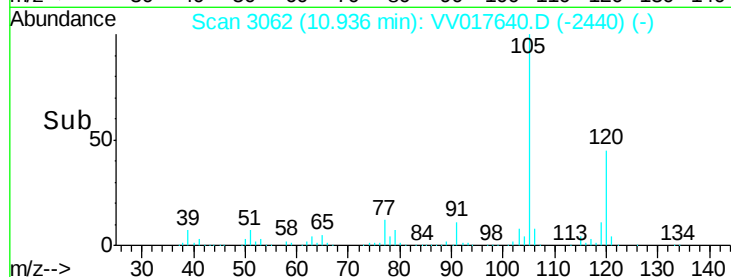
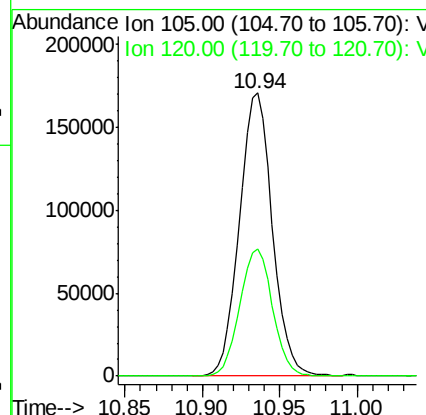
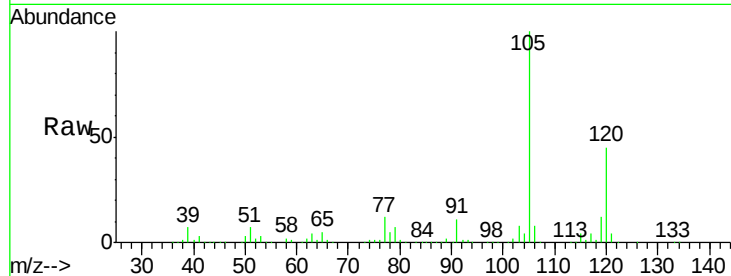




#44  
 1,2,4-Trimethylbenzene  
 Concen: 5.325 ug/L  
 RT: 10.94 min Scan# 3062  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

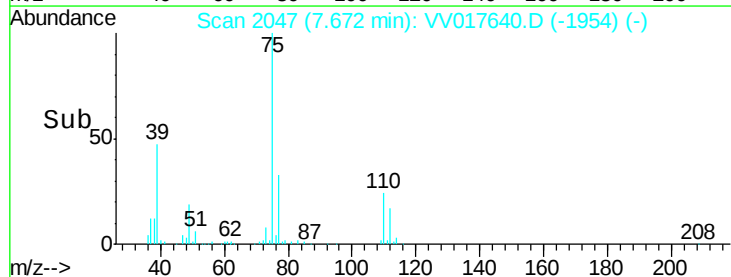
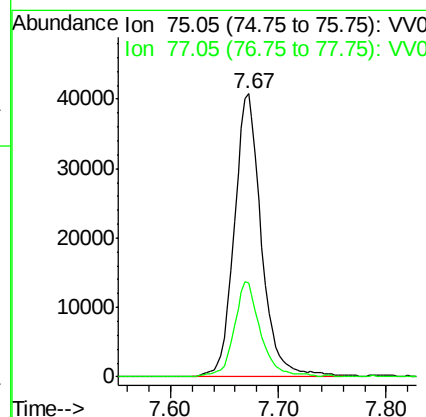
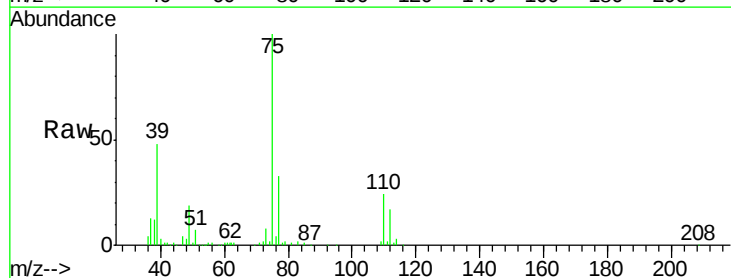
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

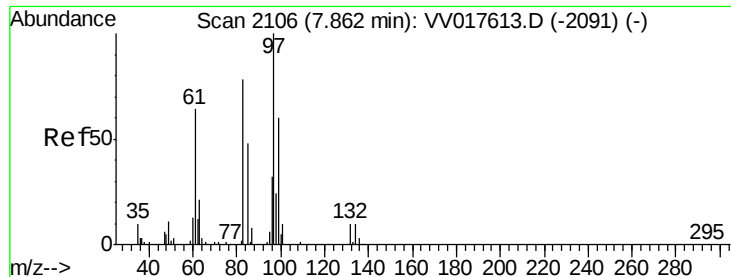
Tgt Ion: 105 Resp: 251913  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 35.9 53.9



#46  
 trans-1,3-Dichloropropene  
 Concen: 4.954 ug/L  
 RT: 7.67 min Scan# 2047  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Tgt Ion: 75 Resp: 71672  
 Ion Ratio Lower Upper  
 75 100  
 77 33.4 22.5 41.7

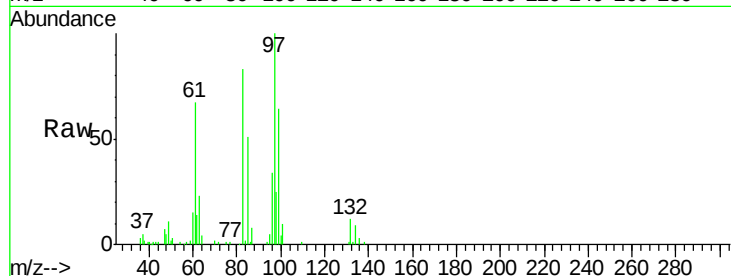




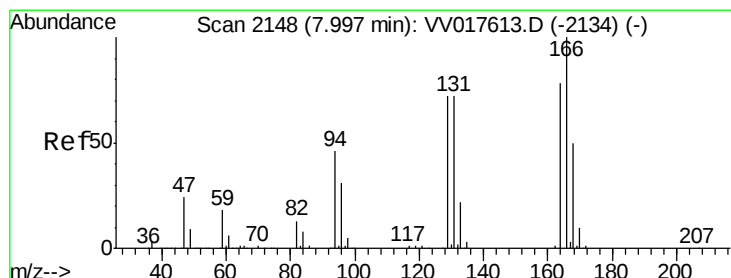
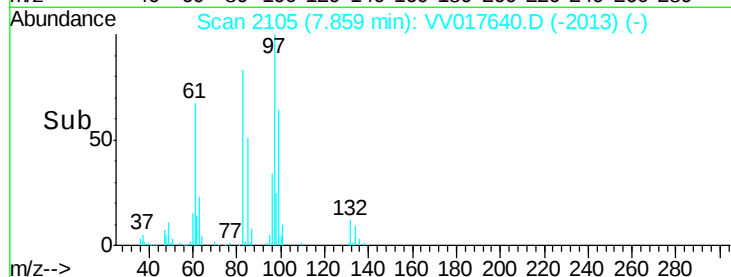
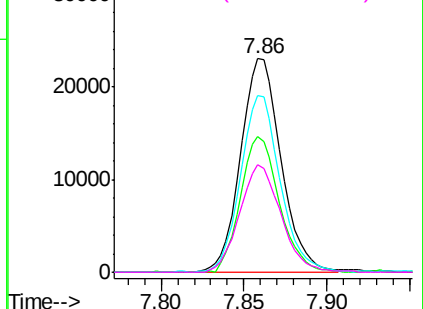
#47  
 1,1,2-Trichloroethane  
 Concen: 4.836 ug/L  
 RT: 7.86 min Scan# 2105  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 39185 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.8  | 39.5  | 73.4  |
| 83       | 82.7  | 52.6  | 97.6  |
| 85       | 50.7  | 35.1  | 65.1  |

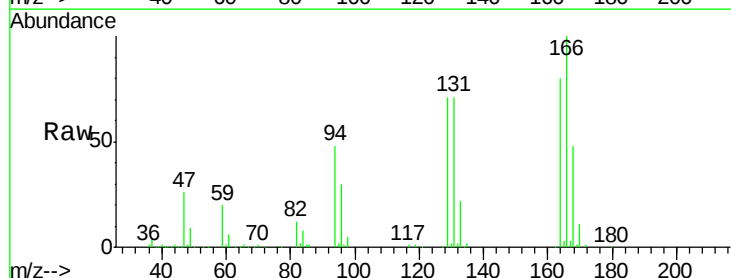


Abundance Ion 96.95 (96.65 to 97.65): VV017613.D (-2091) (-)  
 Ion 99.05 (98.75 to 99.75): VV017613.D (-2091) (-)  
 Ion 82.95 (82.65 to 83.65): VV017613.D (-2091) (-)  
 Ion 85.00 (84.70 to 85.70): VV017613.D (-2091) (-)

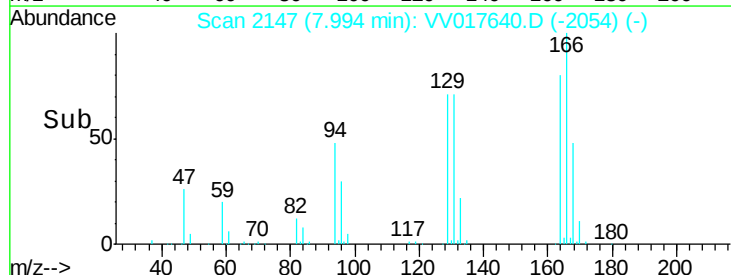
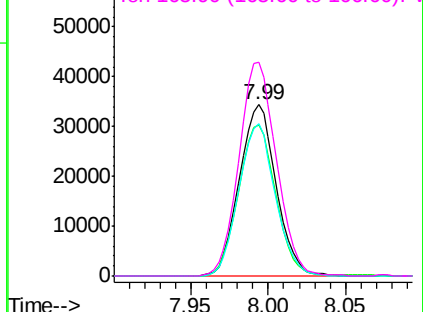


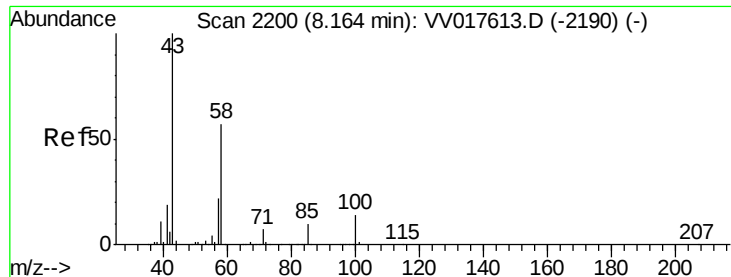
#49  
 Tetrachloroethene  
 Concen: 5.087 ug/L  
 RT: 7.99 min Scan# 2147  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 56959 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 88.0  | 65.0  | 120.8 |
| 131      | 88.6  | 63.6  | 118.2 |
| 166      | 124.6 | 91.7  | 170.3 |



Abundance Ion 163.90 (163.60 to 164.60): VV017613.D (-2134) (-)  
 Ion 128.95 (128.65 to 129.65): VV017613.D (-2134) (-)  
 Ion 130.95 (130.65 to 131.65): VV017613.D (-2134) (-)  
 Ion 165.90 (165.60 to 166.60): VV017613.D (-2134) (-)

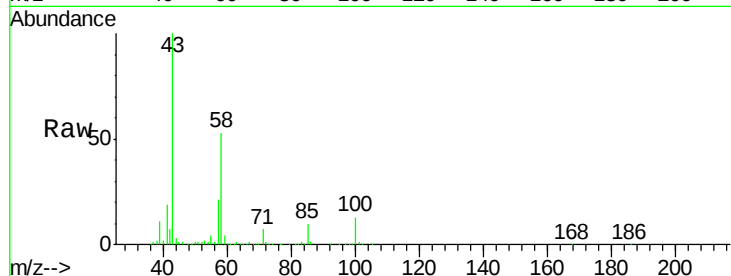




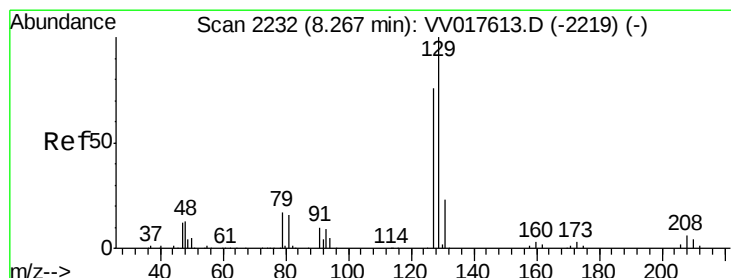
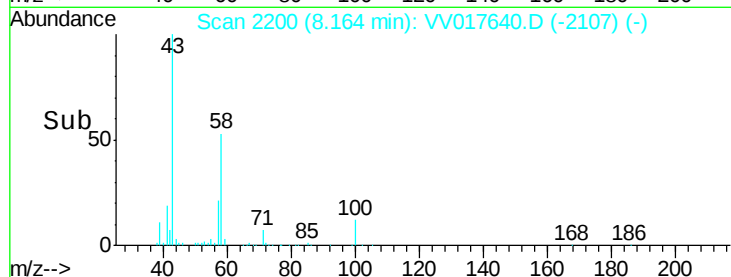
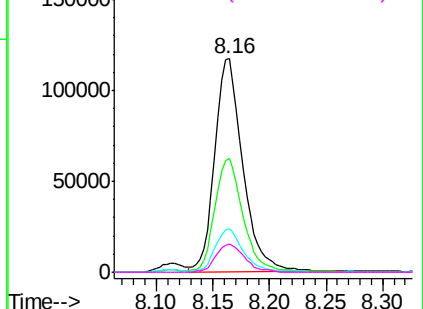
#50  
2-Hexanone  
Concen: 48.987 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: VV017640.D  
Acq: 24 Jul 2020 10:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00556

Tgt Ion: 43 Resp: 203052  
Ion Ratio Lower Upper  
43 100  
58 53.3 41.6 62.4  
57 20.6 15.4 23.0  
100 13.6 11.2 16.8

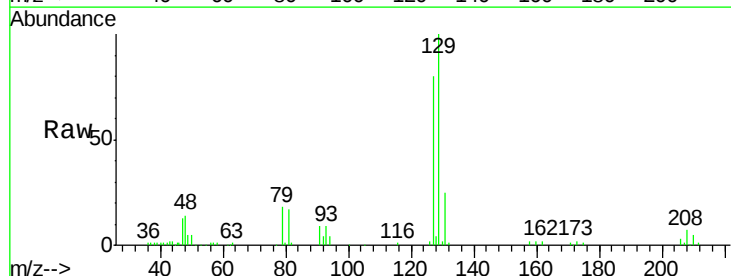


Abundance Ion 43.05 (42.75 to 43.75): VV017640.D (-2107) (-)  
Ion 58.05 (57.75 to 58.75): VV017640.D (-2107) (-)  
Ion 57.20 (56.90 to 57.90): VV017640.D (-2107) (-)  
Ion 100.15 (99.85 to 100.85): VV017640.D (-2107) (-)

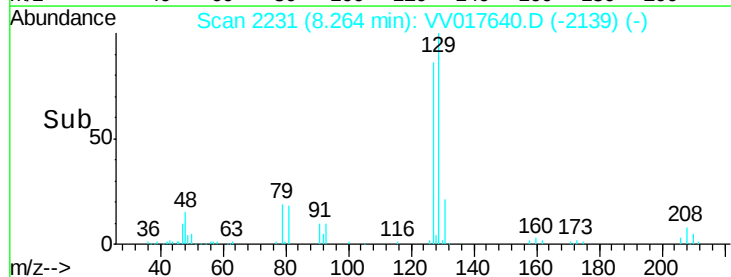
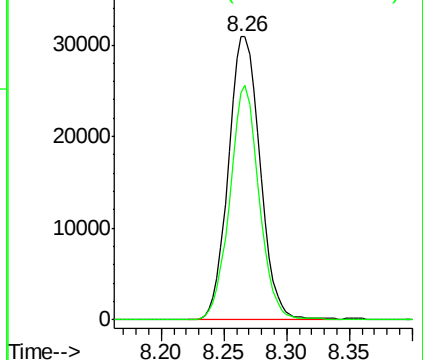


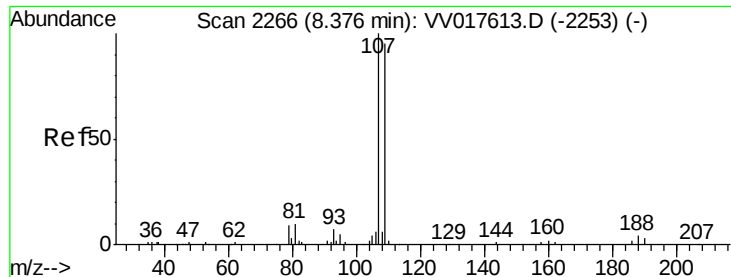
#51  
Dibromochloromethane  
Concen: 5.275 ug/L  
RT: 8.26 min Scan# 2231  
Delta R.T. -0.00 min  
Lab File: VV017640.D  
Acq: 24 Jul 2020 10:54

Tgt Ion: 129 Resp: 54405  
Ion Ratio Lower Upper  
129 100  
127 80.2 56.3 104.5



Abundance Ion 128.95 (128.65 to 129.65): VV017640.D (-2139) (-)  
Ion 126.90 (126.60 to 127.60): VV017640.D (-2139) (-)

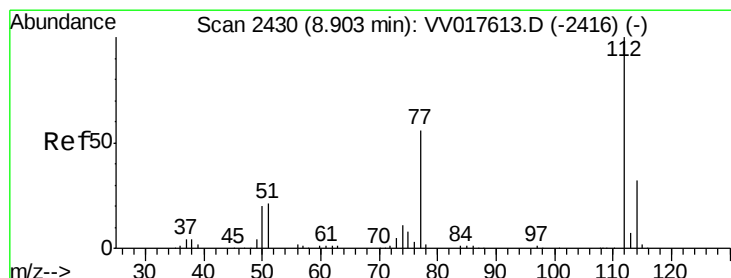
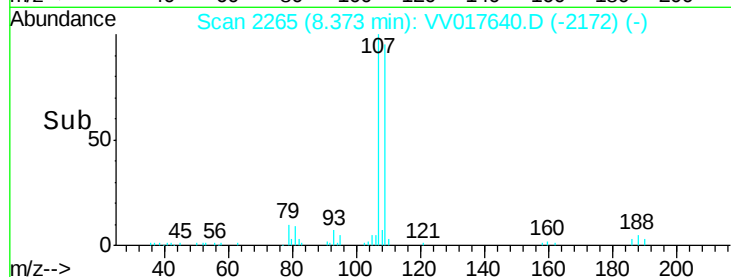
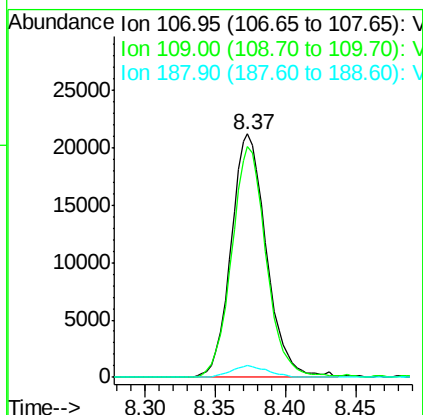
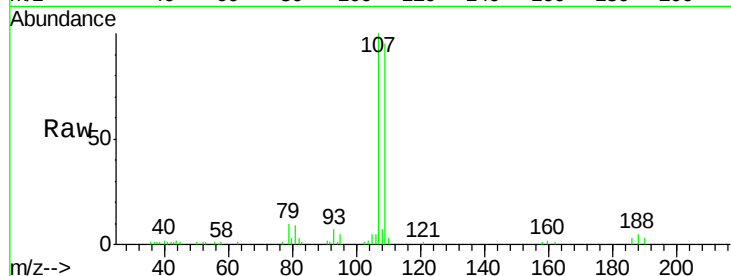




#52  
 1,2-Dibromoethane  
 Concen: 4.859 ug/L  
 RT: 8.37 min Scan# 2265  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

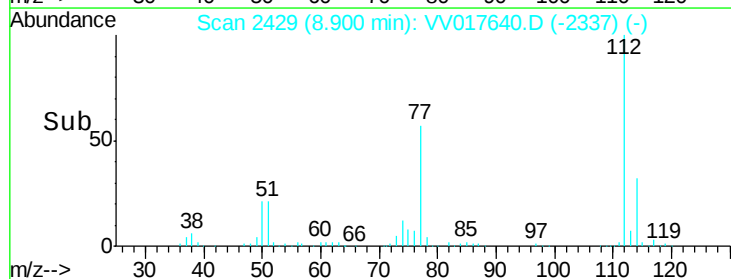
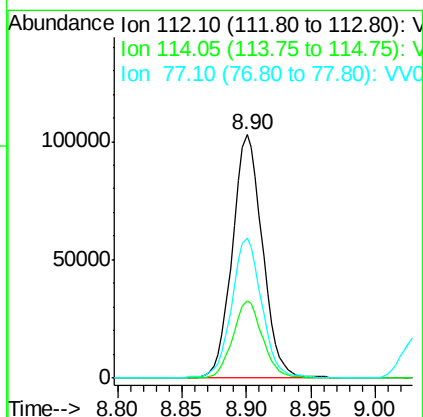
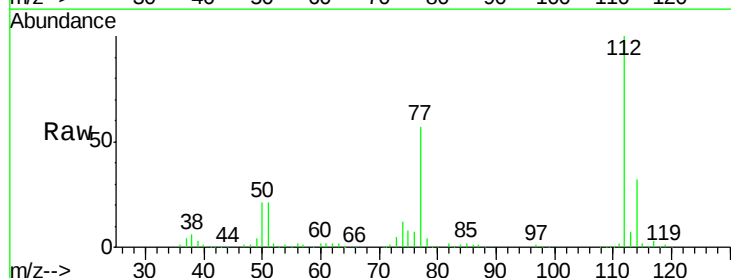
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

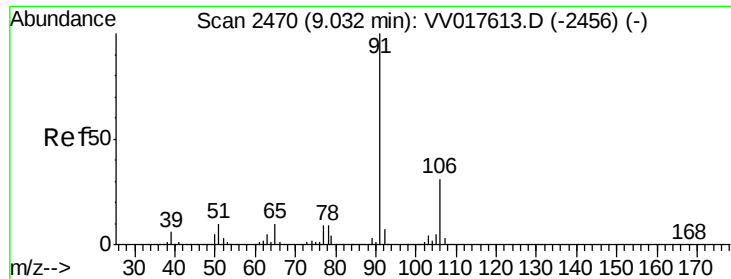
Tgt Ion:107 Resp: 37154  
 Ion Ratio Lower Upper  
 107 100  
 109 94.6 65.5 121.7  
 188 4.8 3.7 5.5



#53  
 Chlorobenzene  
 Concen: 5.056 ug/L  
 RT: 8.90 min Scan# 2429  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Tgt Ion:112 Resp: 167159  
 Ion Ratio Lower Upper  
 112 100  
 114 31.9 23.2 43.2  
 77 57.2 45.6 68.4





#54

Ethylbenzene

Concen: 5.140 ug/L

RT: 9.03 min Scan# 2469

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

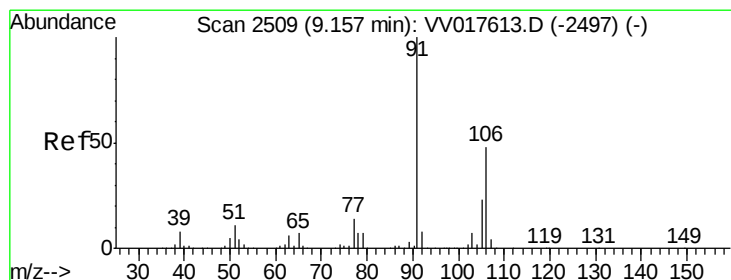
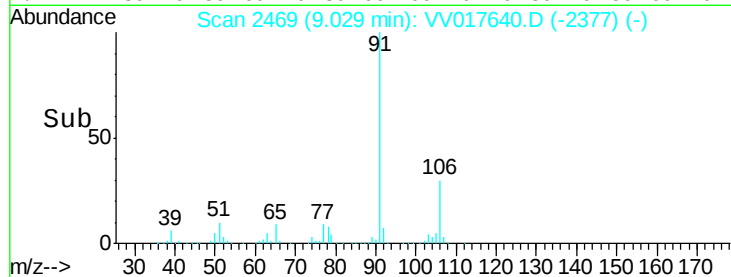
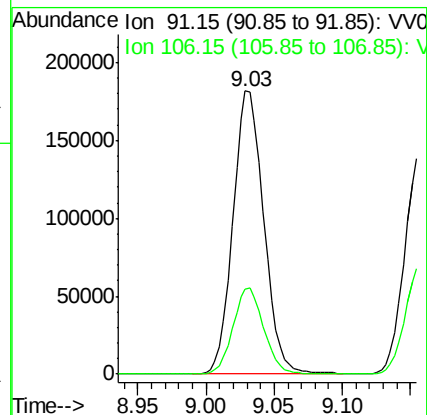
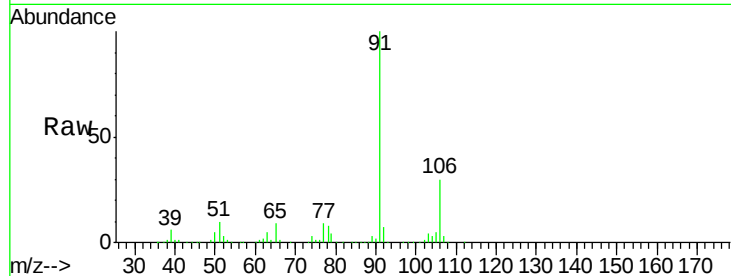
VSTD00556

Tgt Ion: 91 Resp: 285404

Ion Ratio Lower Upper

91 100

106 30.1 21.6 40.2



#55

m,p-xylene

Concen: 5.221 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV017640.D

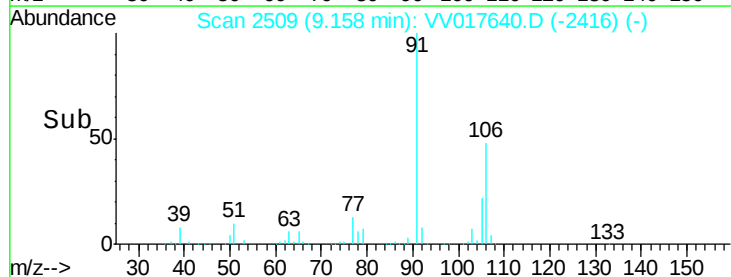
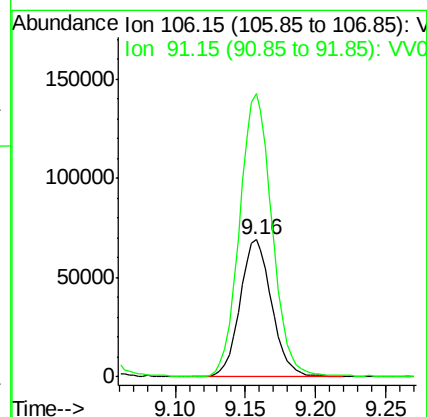
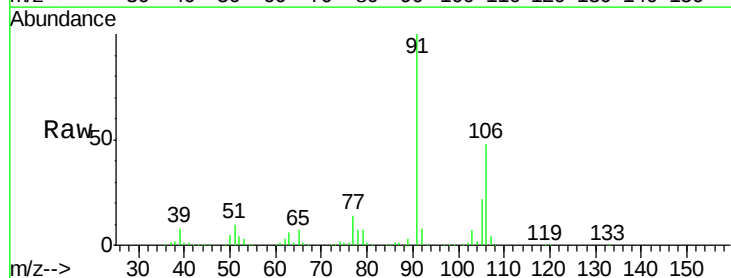
Acq: 24 Jul 2020 10:54

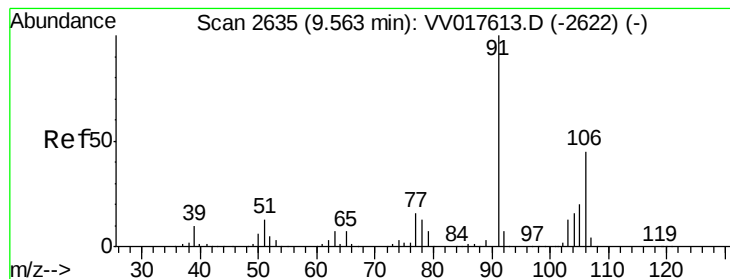
Tgt Ion: 106 Resp: 109179

Ion Ratio Lower Upper

106 100

91 206.7 141.3 262.3





#56

o-xylene

Concen: 5.127 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

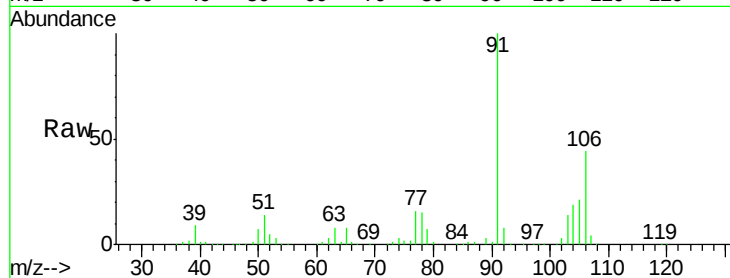
VSTD00556

Tgt Ion:106 Resp: 104044

Ion Ratio Lower Upper

106 100

91 228.3 153.9 285.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

150000

100000

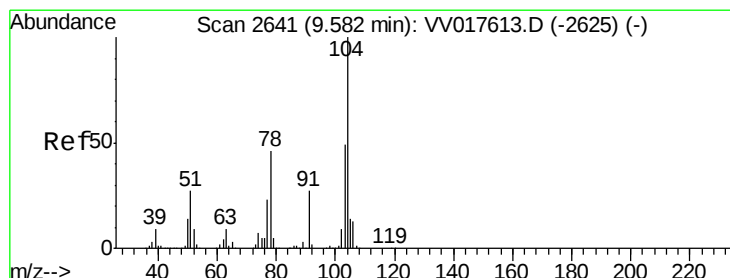
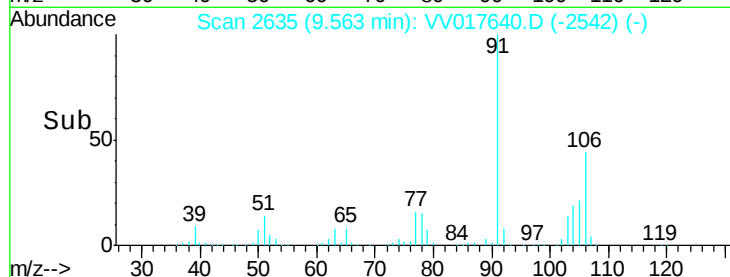
50000

0

9.56

Time-->

9.50 9.55 9.60 9.65



#57

Styrene

Concen: 5.299 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV017640.D

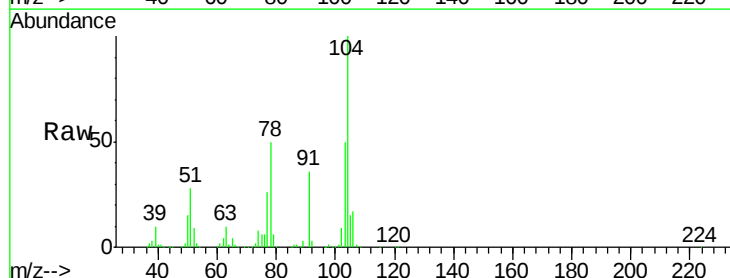
Acq: 24 Jul 2020 10:54

Tgt Ion:104 Resp: 179434

Ion Ratio Lower Upper

104 100

78 49.8 34.0 63.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

120000

100000

80000

60000

40000

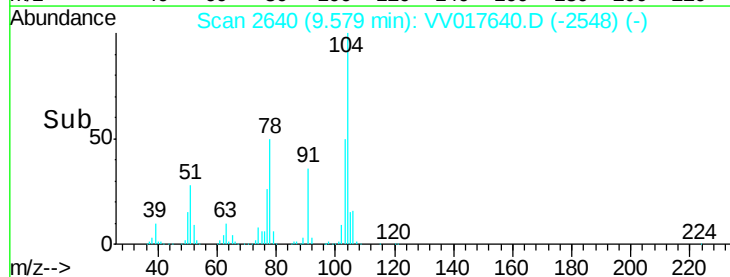
20000

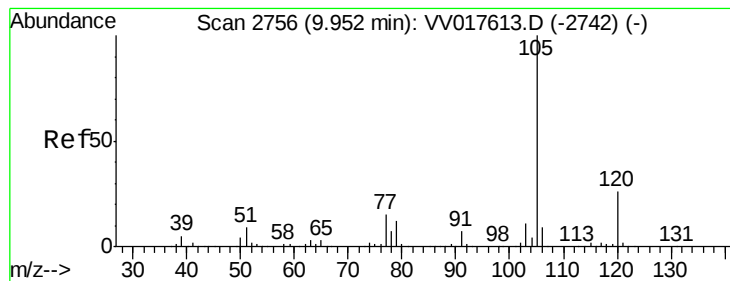
0

9.58

Time-->

9.50 9.55 9.60 9.65 9.70





#58

Isopropylbenzene

Concen: 5.193 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

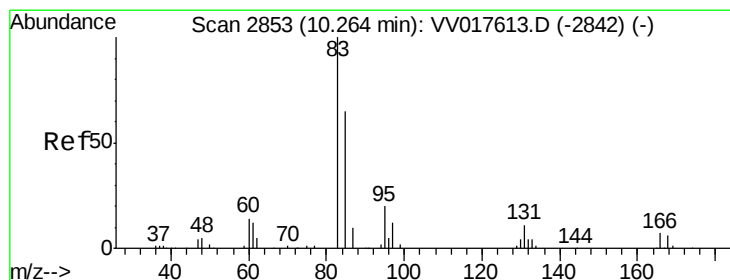
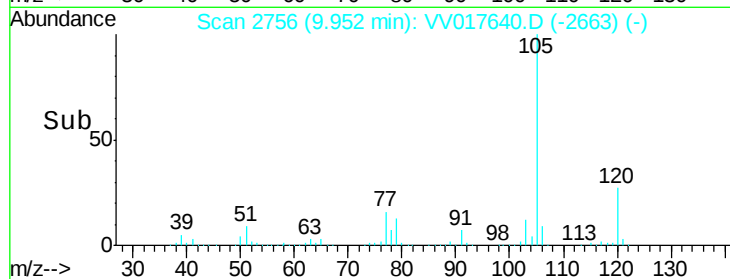
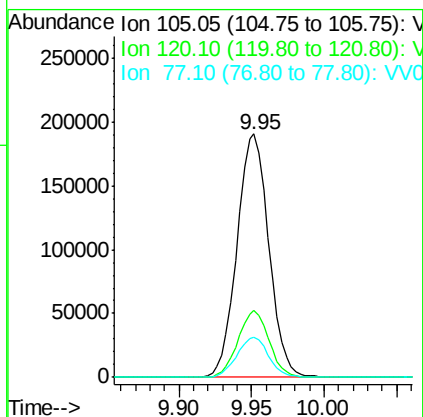
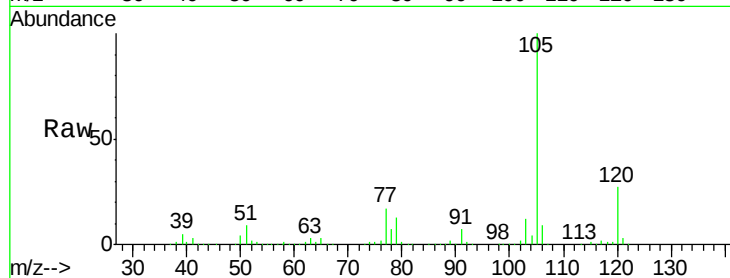
Instrument :

MSVOA\_V

ClientSampleId :

VSTD00556

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 290727 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 26.9  | 21.1  | 31.7   |
| 77       | 16.5  | 13.0  | 19.6   |



#60

1,1,2,2-Tetrachloroethane

Concen: 4.931 ug/L

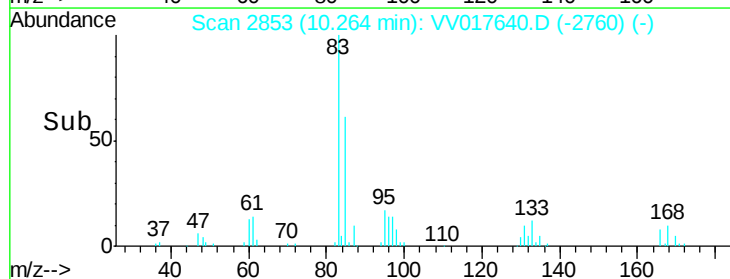
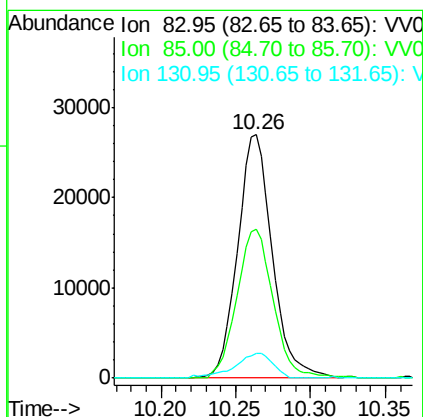
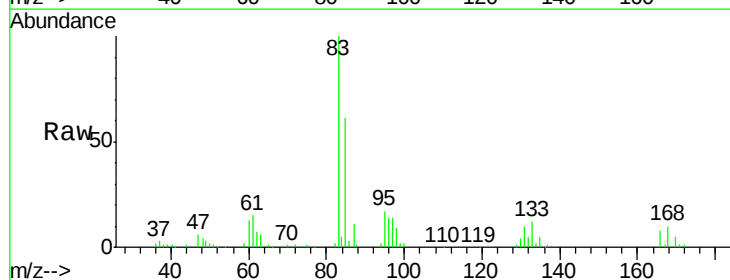
RT: 10.26 min Scan# 2853

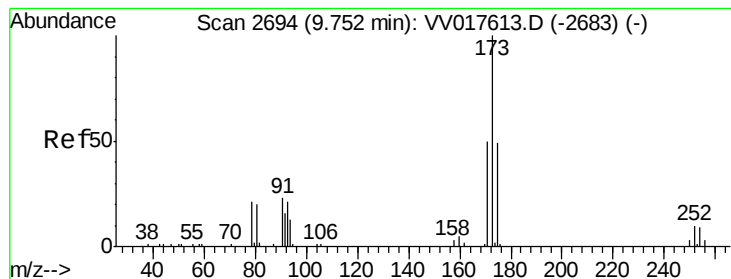
Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 43539 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 61.2  | 44.4  | 82.5  |
| 131      | 10.0  | 9.2   | 13.8  |





#62

Bromoform

Concen: 4.895 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00556

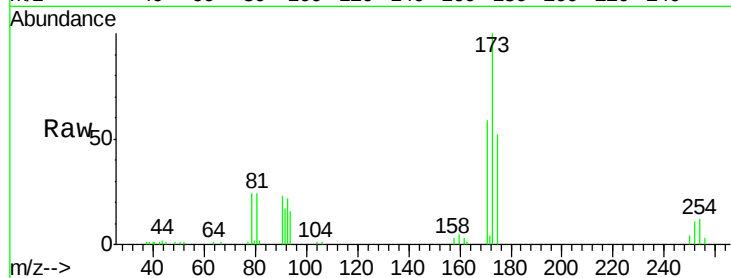
Tgt Ion:173 Resp: 28679

Ion Ratio Lower Upper

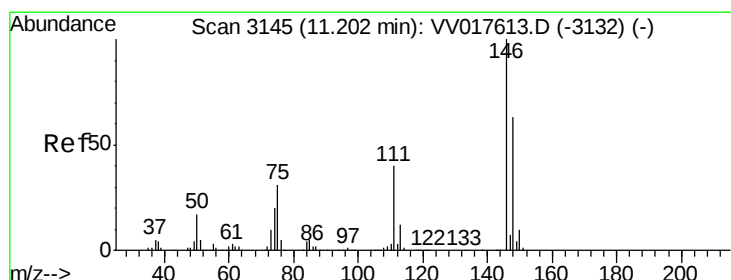
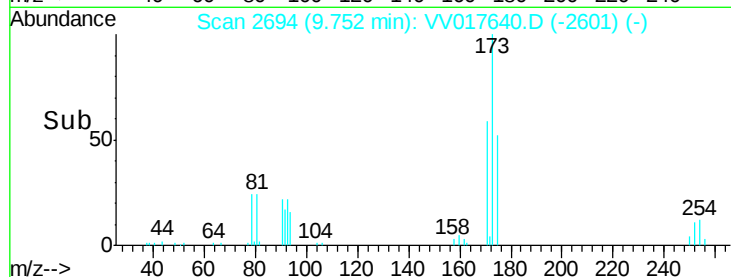
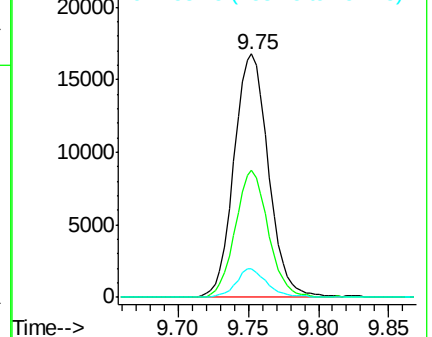
173 100

175 49.9 39.6 59.4

254 10.7 8.4 12.6



Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 4.986 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

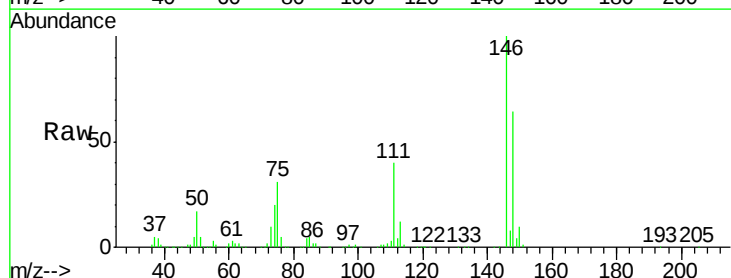
Tgt Ion:146 Resp: 146940

Ion Ratio Lower Upper

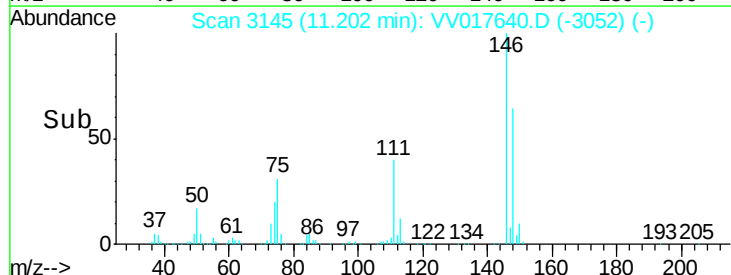
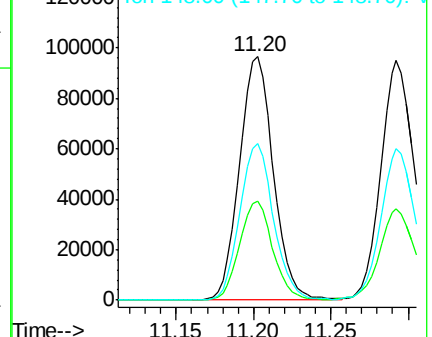
146 100

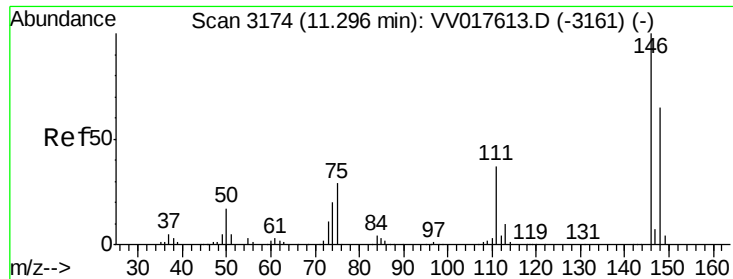
111 40.5 27.3 50.7

148 64.1 45.6 84.6



Abundance Ion 145.95 (145.65 to 146.65): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

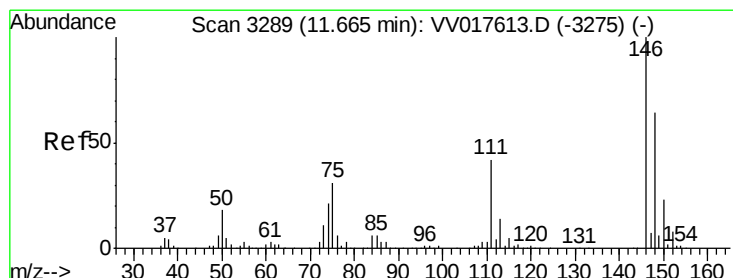
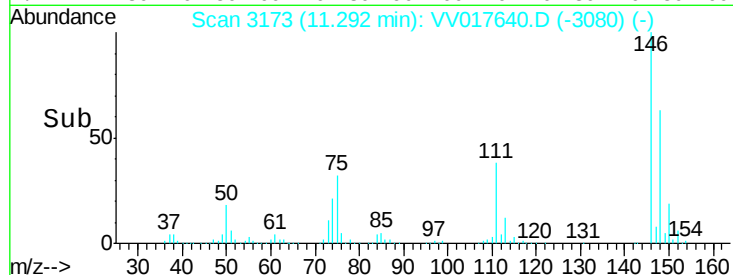
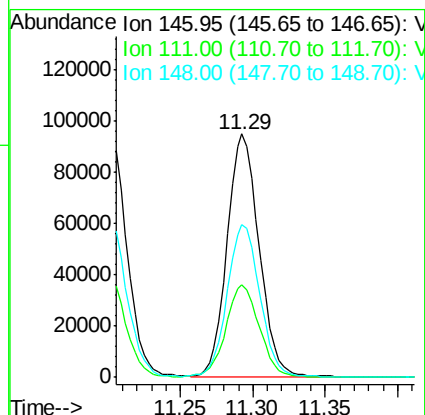
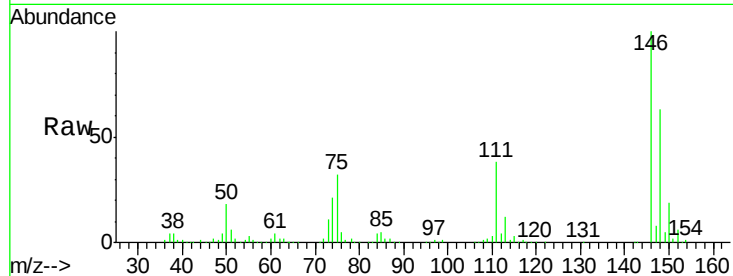




#64  
 1,4-Dichlorobenzene  
 Concen: 4.870 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

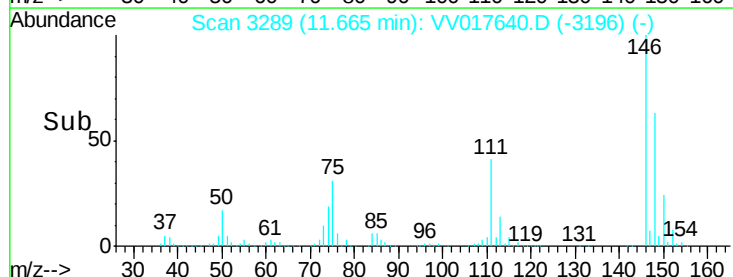
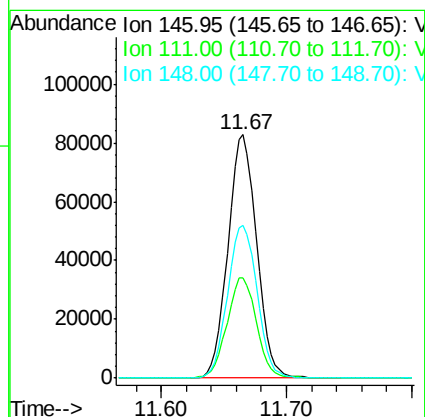
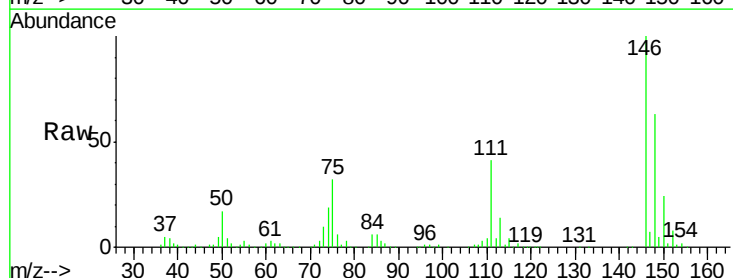
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

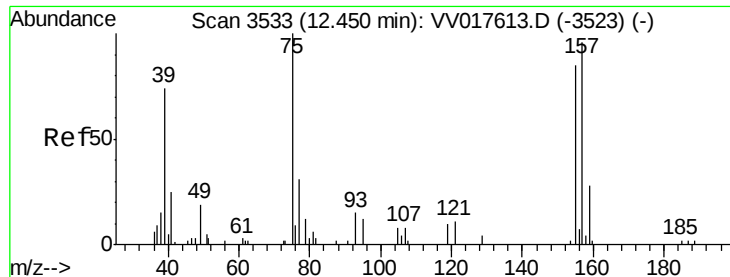
Tgt Ion:146 Resp: 144028  
 Ion Ratio Lower Upper  
 146 100  
 111 37.8 27.4 51.0  
 148 62.9 43.8 81.4



#66  
 1,2-Dichlorobenzene  
 Concen: 4.907 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Tgt Ion:146 Resp: 131744  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 33.0 49.4  
 148 62.7 49.9 74.9

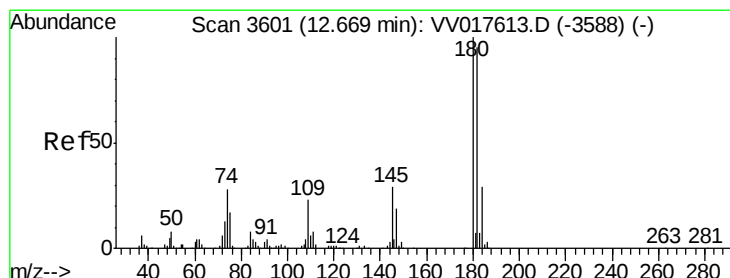
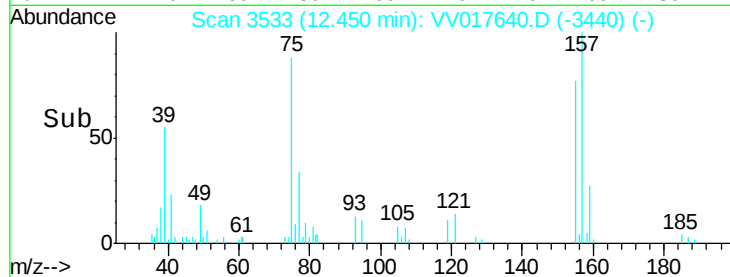
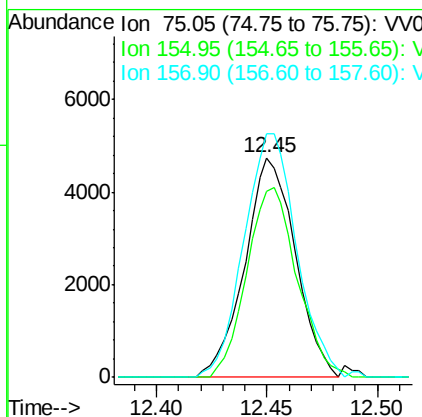
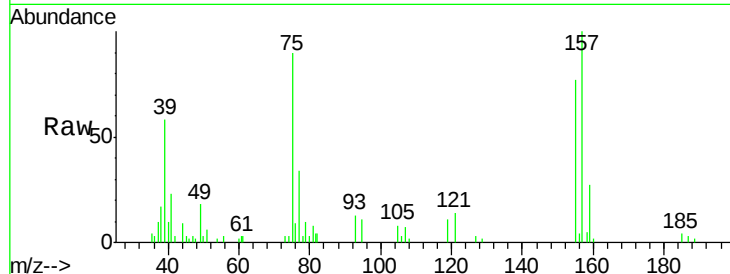




#67  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.504 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

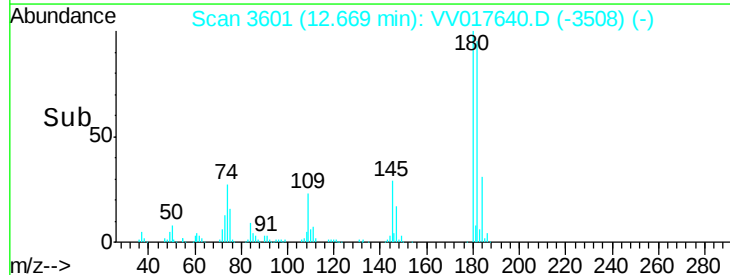
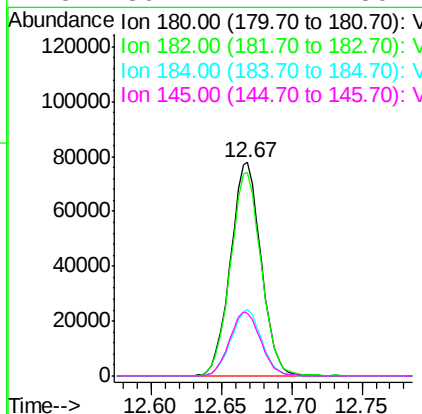
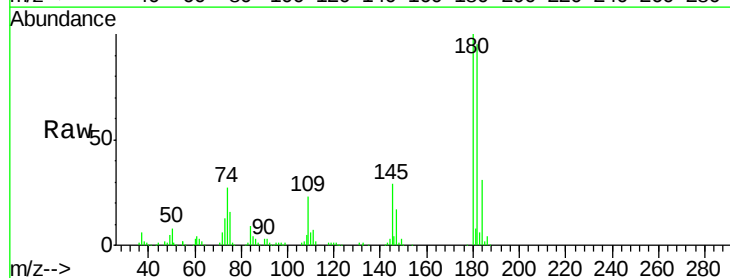
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

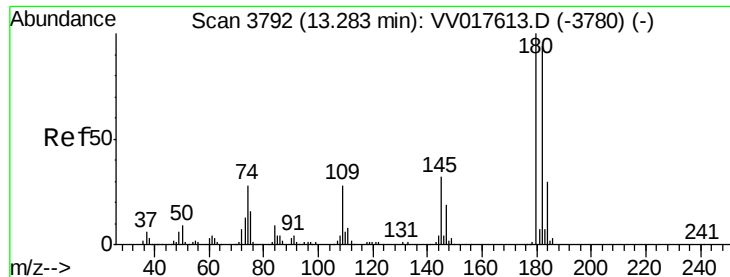
Tgt Ion: 75 Resp: 7561  
 Ion Ratio Lower Upper  
 75 100  
 155 85.0 68.7 103.1  
 157 110.8 87.8 131.8



#68  
 1,3,5-Trichlorobenzene  
 Concen: 4.936 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Tgt Ion: 180 Resp: 118184  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 77.1 115.7  
 184 31.1 25.2 37.8  
 145 30.4 24.1 36.1





#69

1,2,4-trichlorobenzene

Concen: 4.749 ug/L

RT: 13.28 min Scan# 3792

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00556

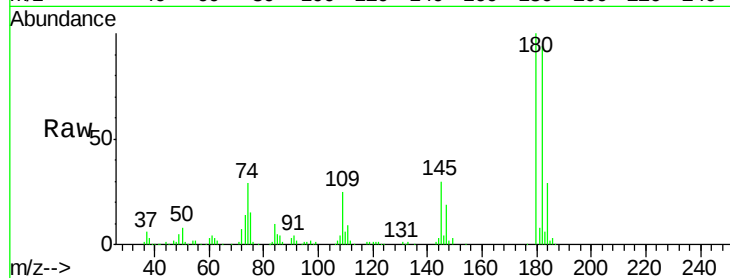
Tgt Ion:180 Resp: 95093

Ion Ratio Lower Upper

180 100

182 95.2 75.4 113.2

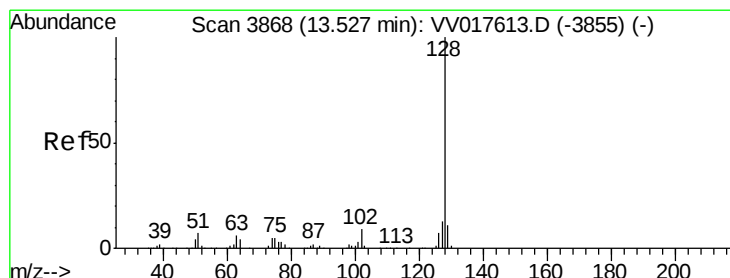
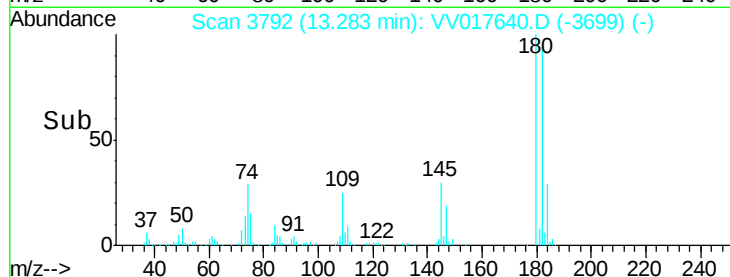
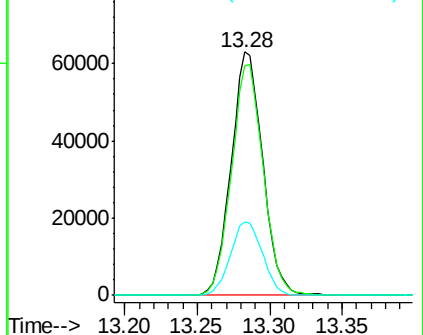
145 30.7 24.2 36.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V



#70

Naphthalene

Concen: 4.575 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV017640.D

Acq: 24 Jul 2020 10:54

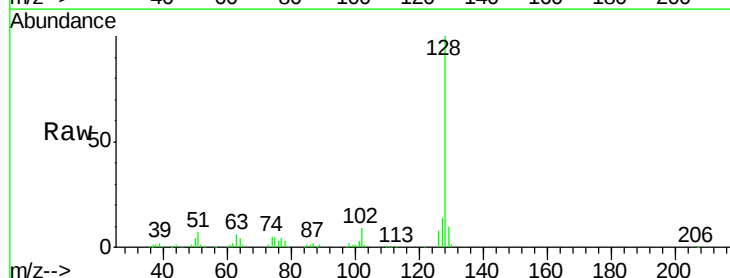
Tgt Ion:128 Resp: 127743

Ion Ratio Lower Upper

128 100

129 10.8 9.1 13.7

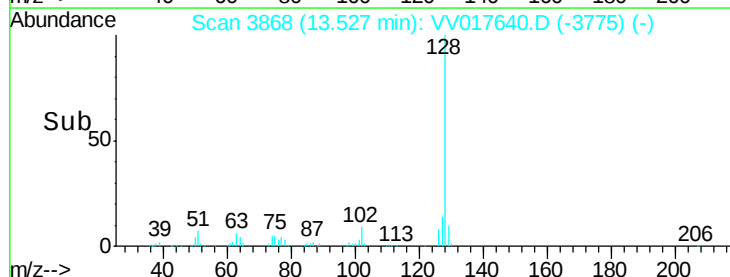
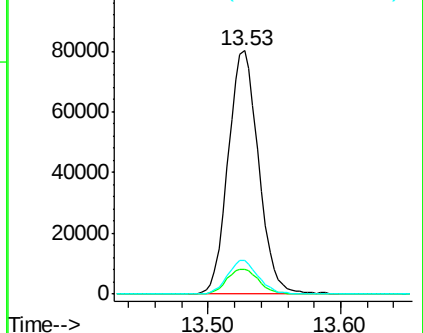
127 13.9 11.0 16.6

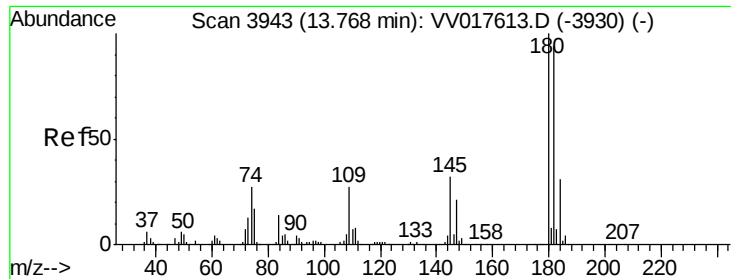


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#71  
 1,2,3-Trichlorobenzene  
 Concen: 4.746 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. -0.00 min  
 Lab File: VV017640.D  
 Acq: 24 Jul 2020 10:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00556

Tgt Ion:180 Resp: 84212  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 74.2 111.4  
 145 30.5 26.0 39.0

