

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052620\  
 Data File : VV016196.D  
 Acq On : 26 May 2020 17:02  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 27 03:13:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed May 27 03:06:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 104612   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 100851   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 49215    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 30543    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 26806    | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 57617    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.40%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 83202    | 49.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.84%  |
| 24) Chloroform-d               | 4.38   | 84    | 64608    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 32951    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.00%  |
| 32) Benzene-d6                 | 5.07   | 84    | 121484   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 37697    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.60%  |
| 41) Toluene-d8                 | 7.34   | 98    | 118095   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.20%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 14824    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 103.00% |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 66830    | 50.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.16% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 27117    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.00%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 40196    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.80%  |

## Target Compounds

|                                |      |     |       |        | Ovalue  |
|--------------------------------|------|-----|-------|--------|---------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 47120 | 5.117  | ug/L 98 |
| 3) Chloromethane               | 1.25 | 50  | 47538 | 4.722  | ug/L 98 |
| 5) Vinyl chloride              | 1.32 | 62  | 44261 | 4.831  | ug/L 99 |
| 6) Bromomethane                | 1.53 | 94  | 26822 | 5.204  | ug/L 93 |
| 8) Chloroethane                | 1.60 | 64  | 25632 | 5.007  | ug/L 98 |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 57031 | 4.815  | ug/L 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 30147 | 4.670  | ug/L 99 |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 28169 | 4.565  | ug/L 96 |
| 13) Acetone                    | 2.23 | 43  | 15288 | 14.819 | ug/L 78 |
| 14) Carbon disulfide           | 2.31 | 76  | 88553 | 4.630  | ug/L 99 |
| 15) Methyl Acetate             | 2.47 | 43  | 12657 | 4.801  | ug/L 99 |
| 16) Methylene chloride         | 2.52 | 84  | 29664 | 4.193  | ug/L 98 |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 71195 | 4.686  | ug/L 97 |
| 18) trans-1,2-Dichloroethene   | 2.77 | 96  | 30272 | 4.483  | ug/L 95 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 57821 | 4.508  | ug/L 99 |
| 21) 2-Butanone                 | 4.04 | 43  | 93452 | 50.924 | ug/L 95 |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 37349 | 4.677  | ug/L 89 |

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 Data File : VV016196.D  
 Acq On : 26 May 2020 17:02  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

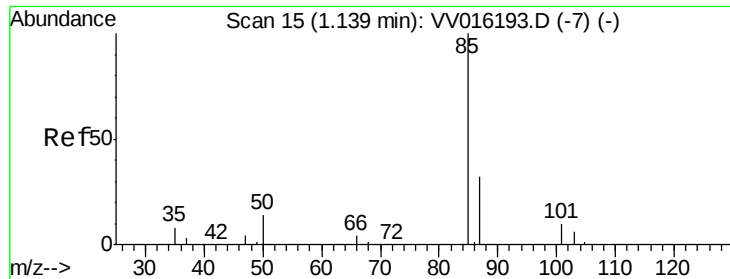
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 27 03:13:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed May 27 03:06:56 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 14792    | 4.880  | ug/L  | 92       |
| 25) Chloroform                 | 4.40  | 83   | 65954    | 4.859  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 43671    | 4.921  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 58363    | 4.876  | ug/L  | 100      |
| 30) Cyclohexane                | 4.70  | 56   | 64436    | 5.023  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 50006    | 4.930  | ug/L  | 99       |
| 33) Benzene                    | 5.12  | 78   | 143263   | 4.936  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 36967    | 4.889  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.15  | 83   | 64024    | 5.021  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 35619    | 5.004  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 43529    | 4.970  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 51343    | 5.093  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.26  | 43   | 226659   | 51.182 | ug/L  | 100      |
| 42) Toluene                    | 7.41  | 91   | 157907   | 4.989  | ug/L  | 98       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 148481   | 5.153  | ug/L  | 99       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 115332   | 3.886  | ug/L  | 99       |
| 46) trans-1,3-Dichloropropene  | 7.68  | 75   | 43865    | 5.237  | ug/L  | 97       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 23637    | 5.049  | ug/L  | 98       |
| 49) Tetrachloroethene          | 8.00  | 164  | 27136    | 4.999  | ug/L  | 97       |
| 50) 2-Hexanone                 | 8.17  | 43   | 164639   | 53.309 | ug/L  | 100      |
| 51) Dibromochloromethane       | 8.27  | 129  | 25534    | 5.149  | ug/L  | 97       |
| 52) 1,2-Dibromoethane          | 8.38  | 107  | 22307    | 5.071  | ug/L  | 92       |
| 53) Chlorobenzene              | 8.90  | 112  | 97209    | 4.971  | ug/L  | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 174103   | 4.935  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 67119    | 5.074  | ug/L  | 99       |
| 56) o-xylene                   | 9.57  | 106  | 64400    | 5.109  | ug/L  | 97       |
| 57) Styrene                    | 9.58  | 104  | 108067   | 5.151  | ug/L  | 100      |
| 58) Isopropylbenzene           | 9.95  | 105  | 173575   | 5.027  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 29385    | 5.049  | ug/L  | 98       |
| 62) Bromoform                  | 9.76  | 173  | 11806    | 5.578  | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 77300    | 5.147  | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 11.30 | 146  | 76517    | 5.013  | ug/L  | 98       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 69250    | 5.101  | ug/L  | 99       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 5008     | 5.461  | ug/L  | 99       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 57206    | 5.382  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 48207    | 5.165  | ug/L  | 97       |
| 70) Naphthalene                | 13.53 | 128  | 98363    | 4.824  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 43578    | 5.177  | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 5.117 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

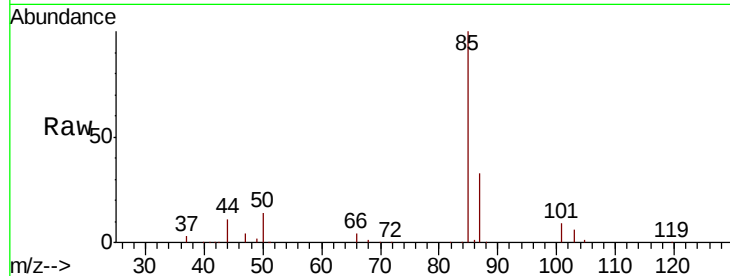
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 85 Resp: 47120

Ion Ratio Lower Upper

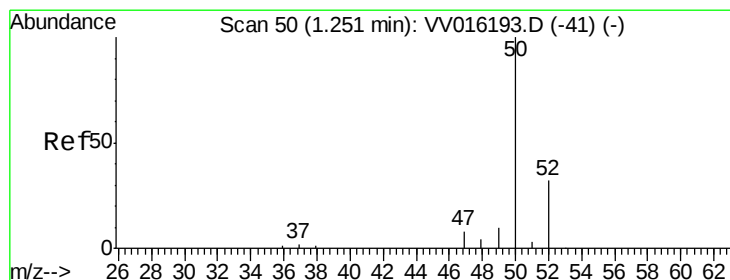
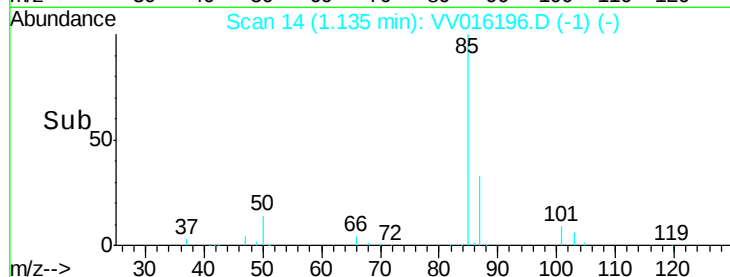
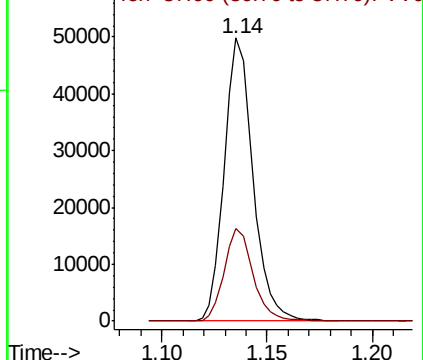
85 100

87 32.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.722 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV016196.D

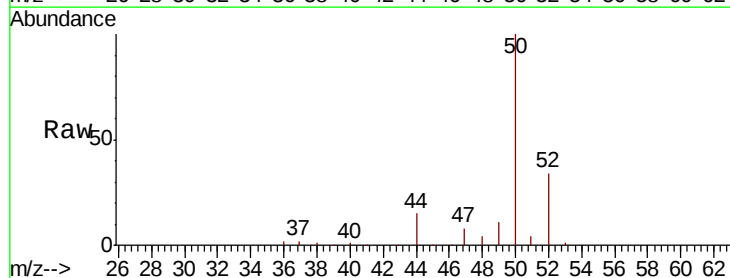
Acq: 26 May 2020 17:02

Tgt Ion: 50 Resp: 47538

Ion Ratio Lower Upper

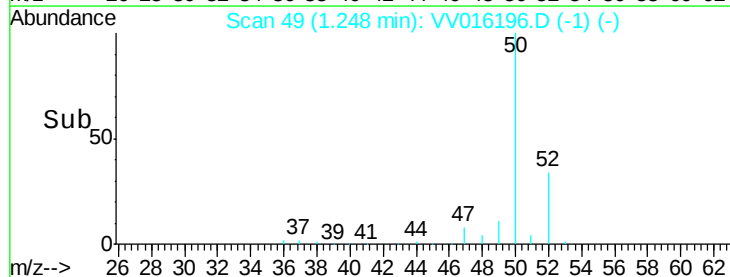
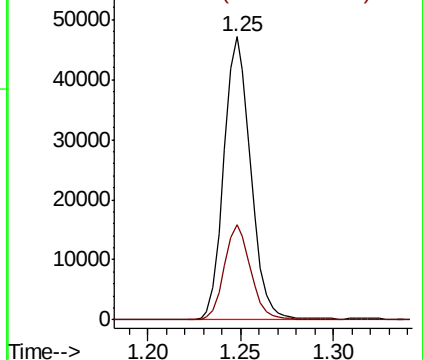
50 100

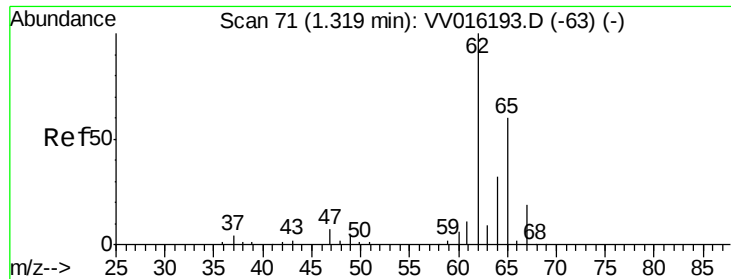
52 33.5 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.831 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

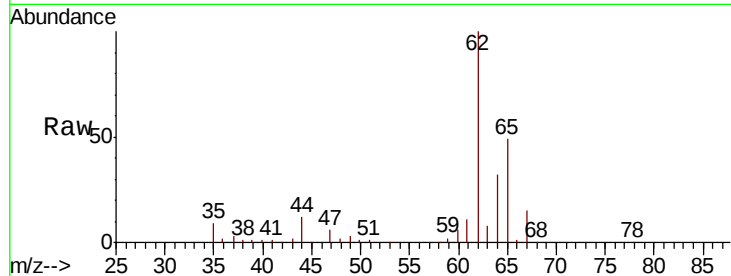
ClientSampled :

Tot Ion: 62 Resp: 44261

Ion Ratio Lower Upper

62 100

64 32.2 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

40000

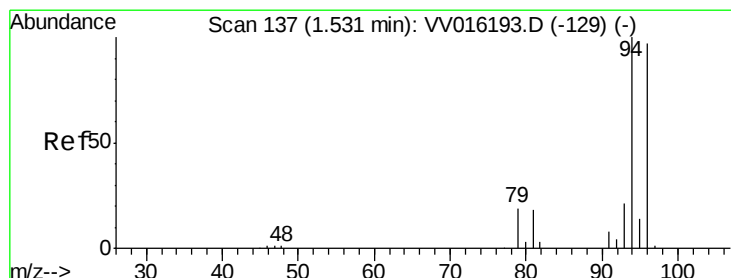
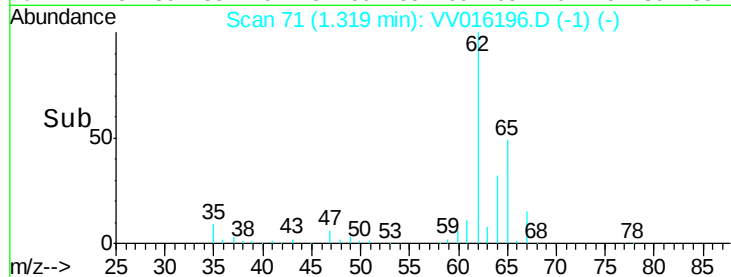
30000

20000

10000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 5.204 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV016196.D

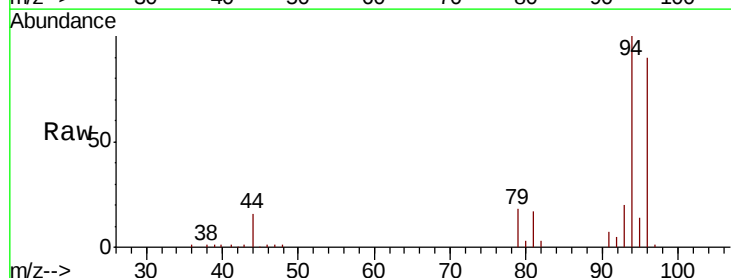
Acq: 26 May 2020 17:02

Tgt Ion: 94 Resp: 26822

Ion Ratio Lower Upper

94 100

96 89.9 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

25000

20000

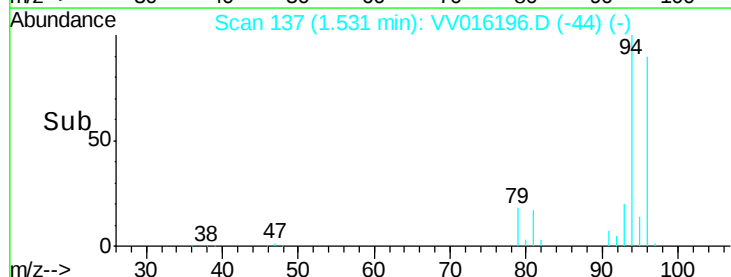
15000

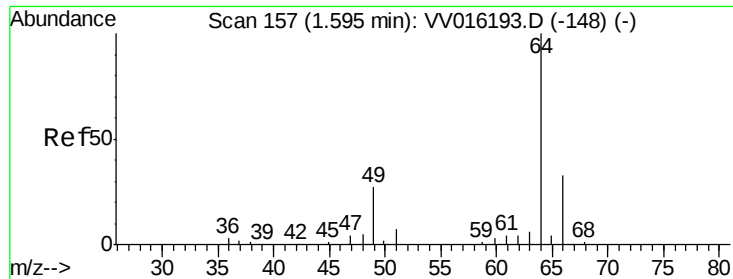
10000

5000

0

Time--> 1.50 1.55 1.60





#8

Chloroethane

Concen: 5.007 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

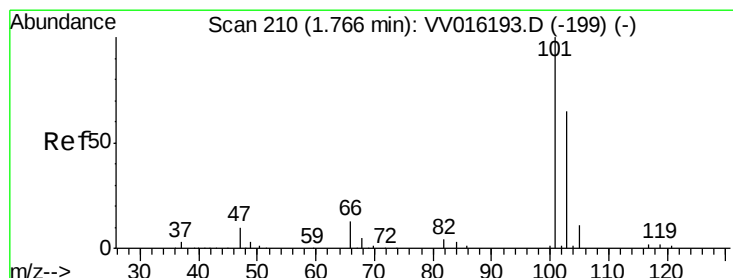
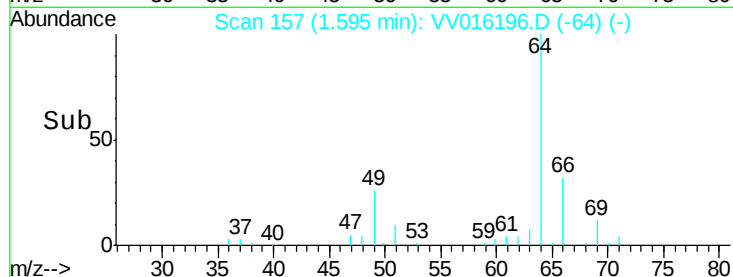
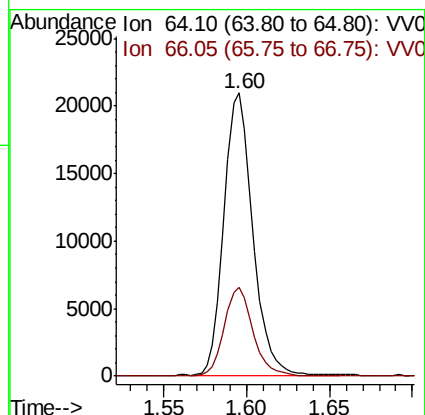
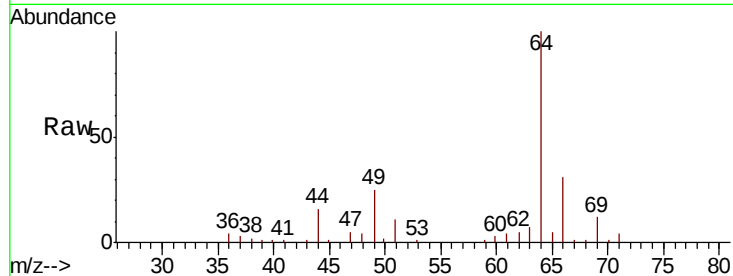
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 25632

Ion Ratio Lower Upper

64 100

66 31.4 22.9 42.5



#9

Trichlorofluoromethane

Concen: 4.815 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV016196.D

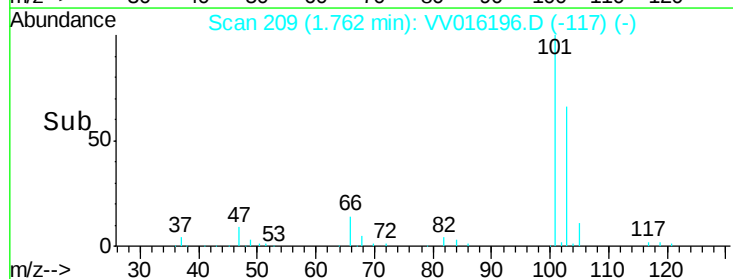
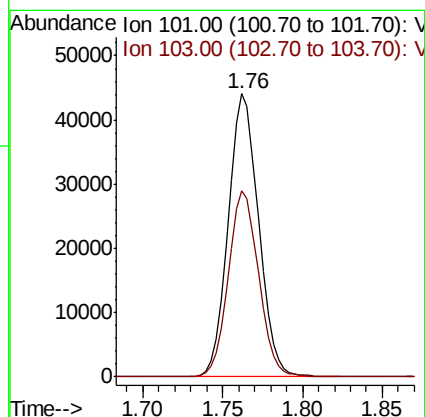
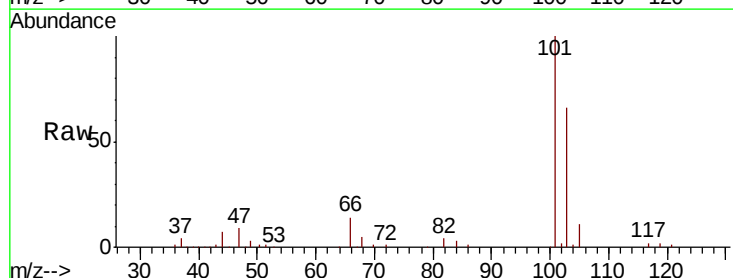
Acq: 26 May 2020 17:02

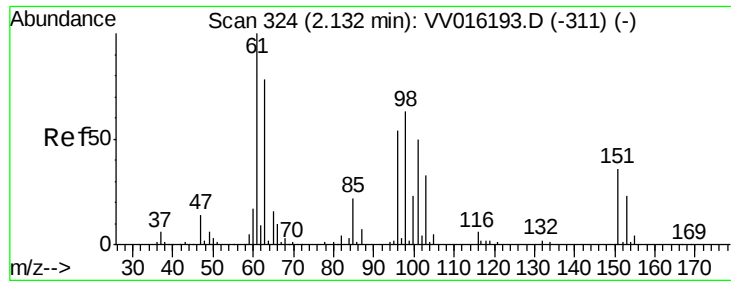
Tgt Ion:101 Resp: 57031

Ion Ratio Lower Upper

101 100

103 65.6 51.9 77.9





#10

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

Concen: 4.670 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

ClientSampleId :

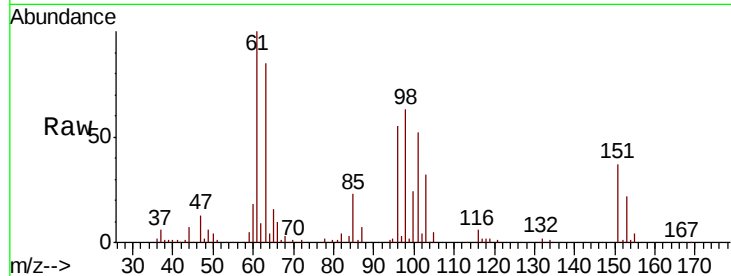
Tot Ion:101 Resp: 30147

Ion Ratio Lower Upper

101 100

85 44.6 35.0 52.6

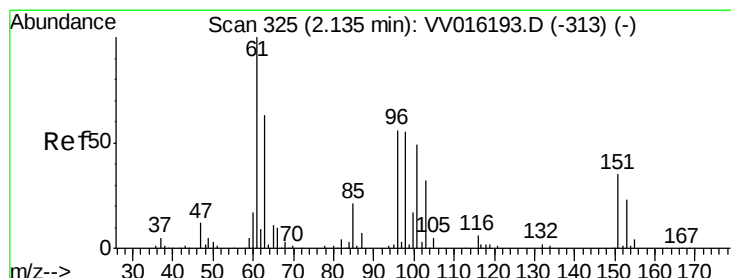
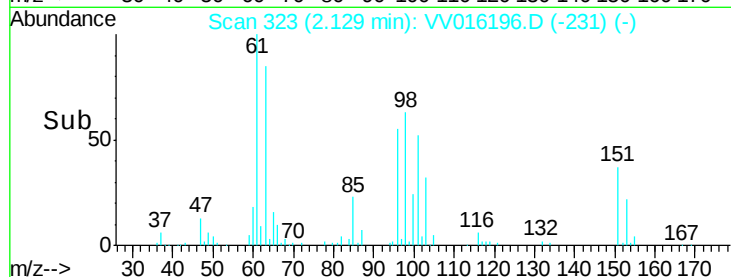
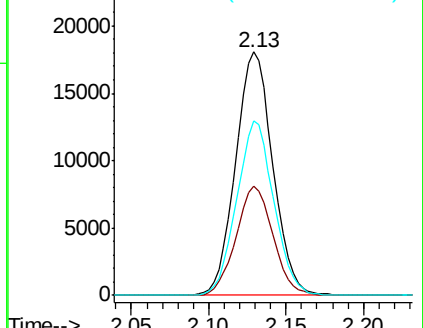
151 71.6 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): VV016196.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV016196.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV016196.D (-231) (-)



#12

1,1-Dichloroethene

Concen: 4.565 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

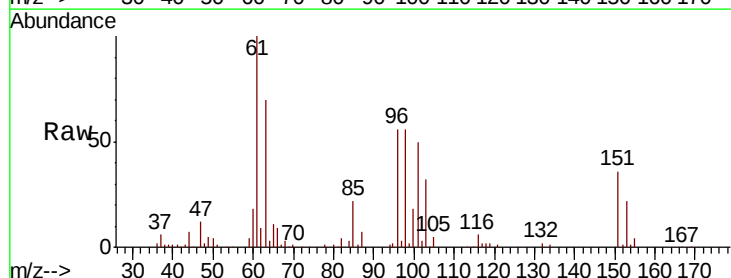
Tgt Ion: 96 Resp: 28169

Ion Ratio Lower Upper

96 100

61 177.4 124.9 231.9

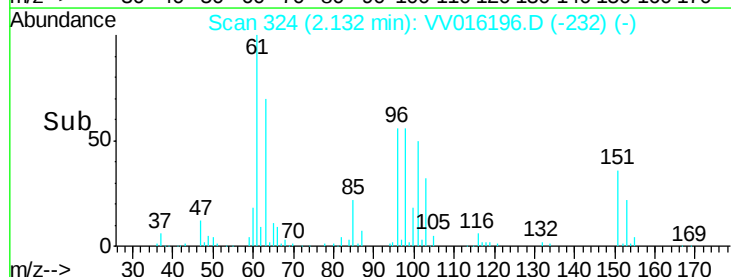
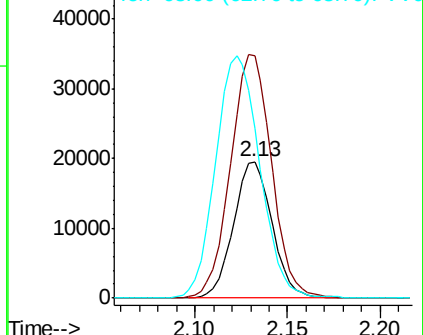
63 124.2 80.4 149.2

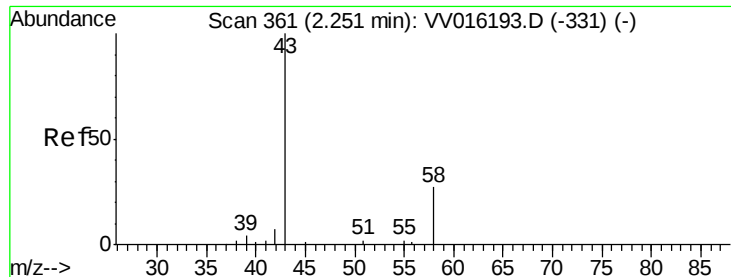


Abundance Ion 96.00 (95.70 to 96.70): VV016196.D (-232) (-)

Ion 61.05 (60.75 to 61.75): VV016196.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV016196.D (-232) (-)





#13

Acetone

Concen: 14.819 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.03 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

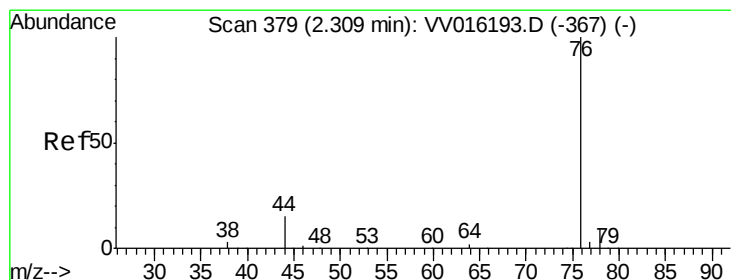
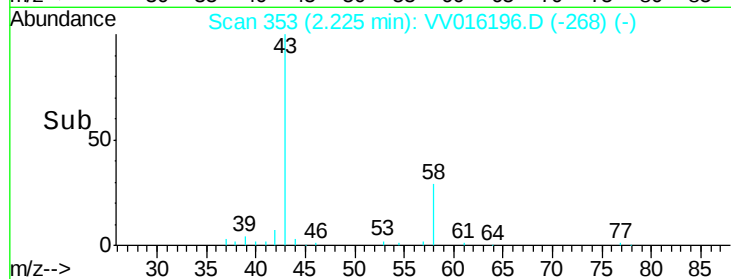
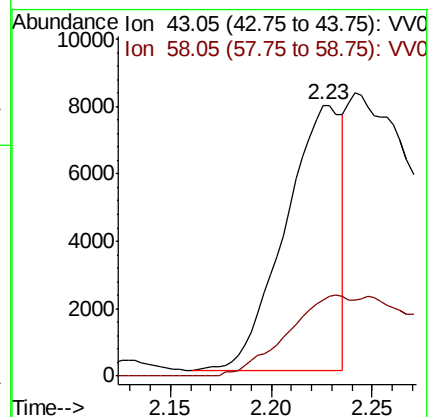
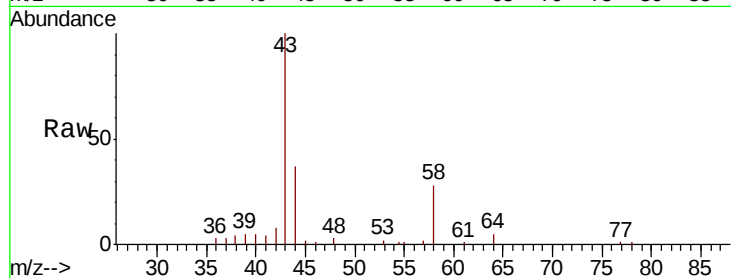
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 15288

Ion Ratio Lower Upper

43 100

58 35.3 0.0 48.8



#14

Carbon disulfide

Concen: 4.630 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV016196.D

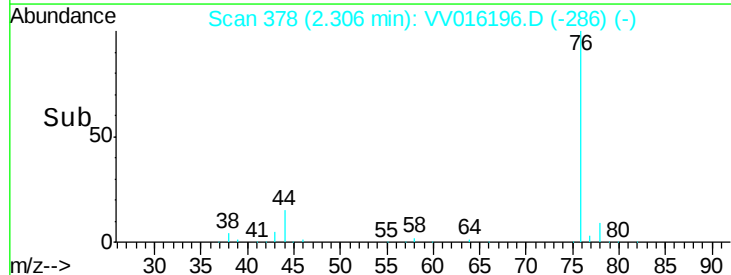
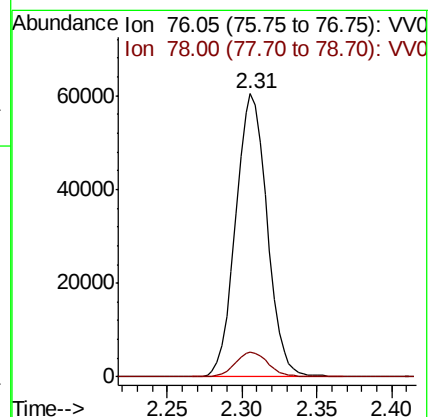
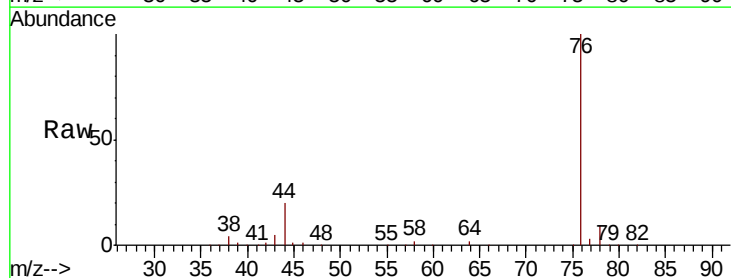
Acq: 26 May 2020 17:02

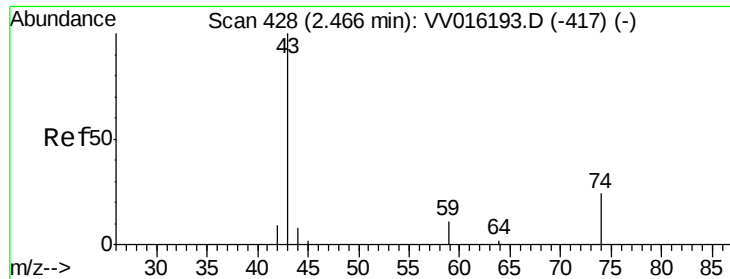
Tgt Ion: 76 Resp: 88553

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0

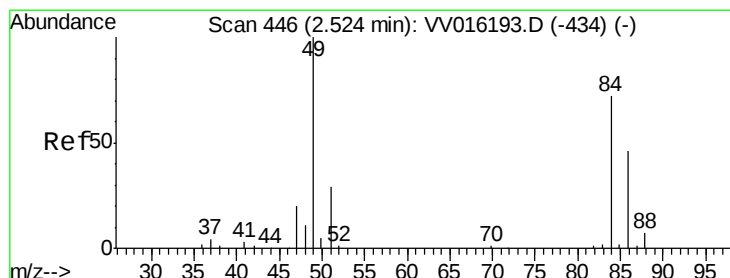
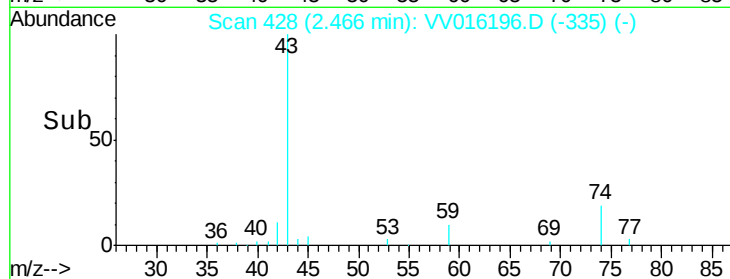
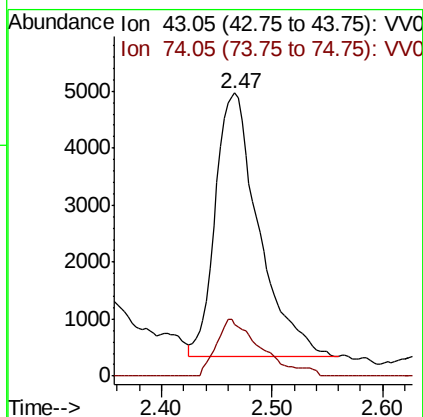
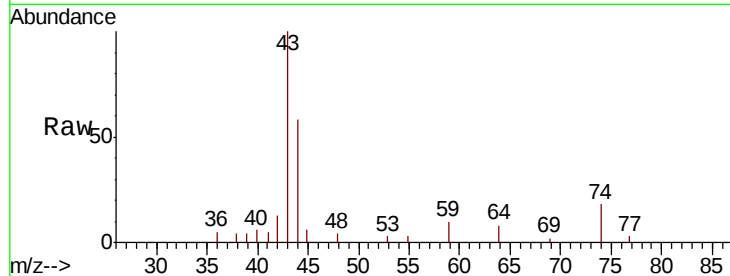




#15  
Methvl Acetate  
Concen: 4.801 ug/L  
RT: 2.47 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

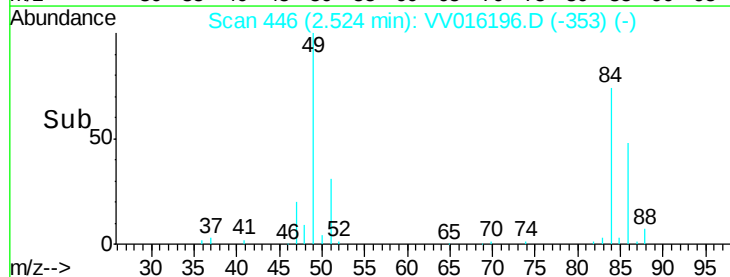
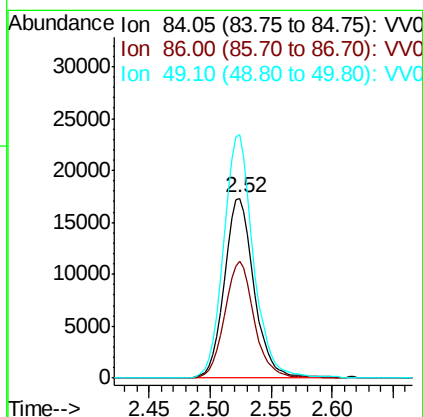
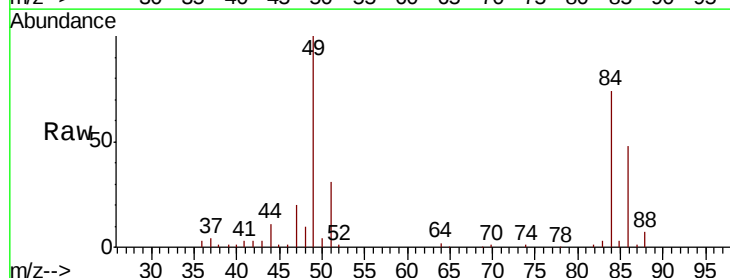
Instrument :  
MSVOA\_V  
ClientSampled :

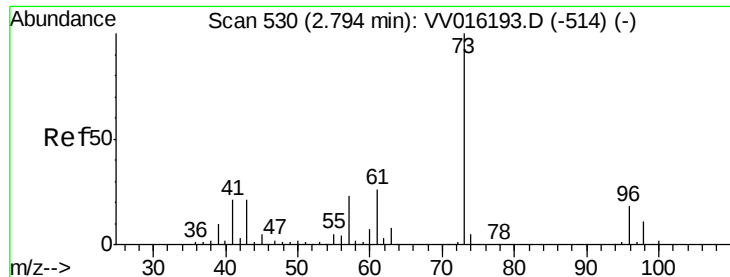
Tot Ion: 43 Resp: 12657  
Ion Ratio Lower Upper  
43 100  
74 22.3 18.1 27.1



#16  
Methylene chloride  
Concen: 4.193 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion: 84 Resp: 29664  
Ion Ratio Lower Upper  
84 100  
86 65.0 44.9 83.5  
49 135.4 96.7 179.7

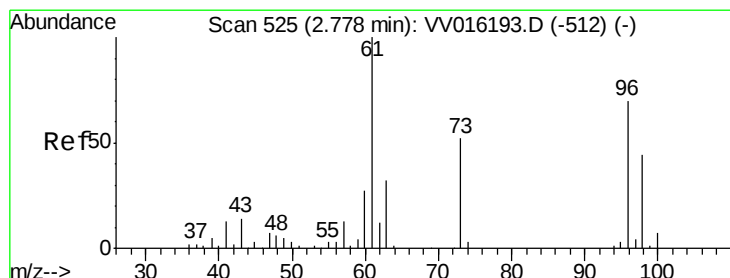
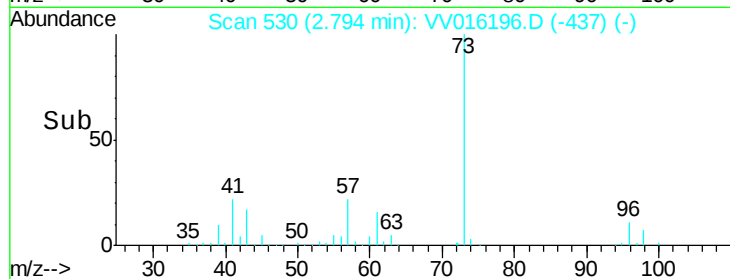
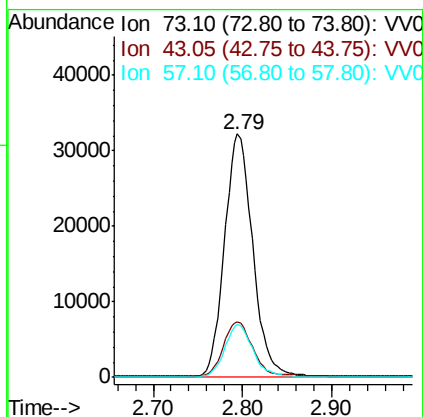
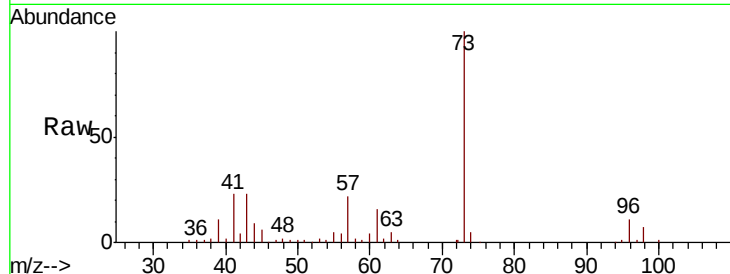




#17  
Methvl tert-butvl Ether  
Concen: 4.686 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

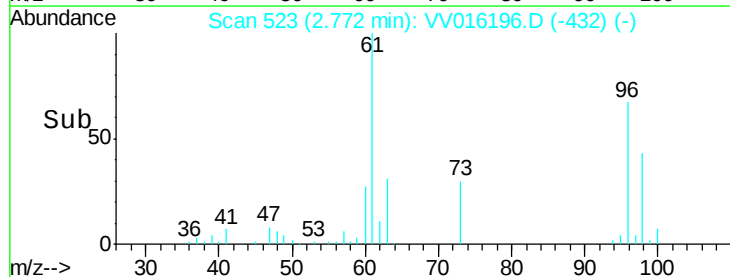
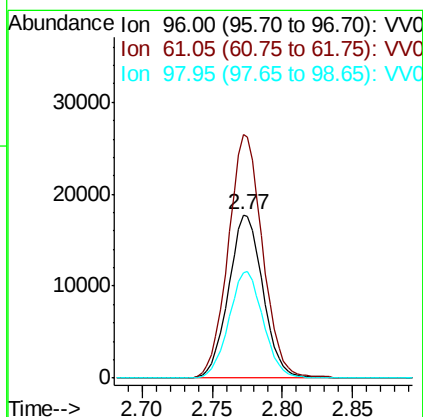
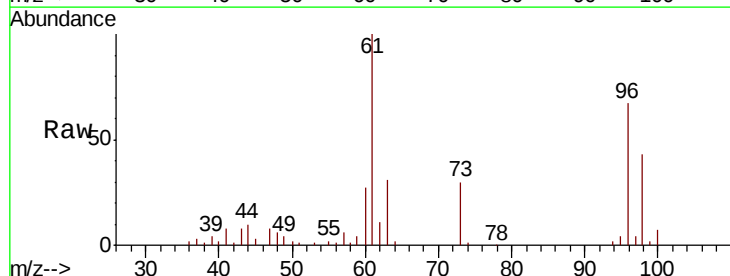
Instrument :  
MSVOA\_V  
ClientSampleId :

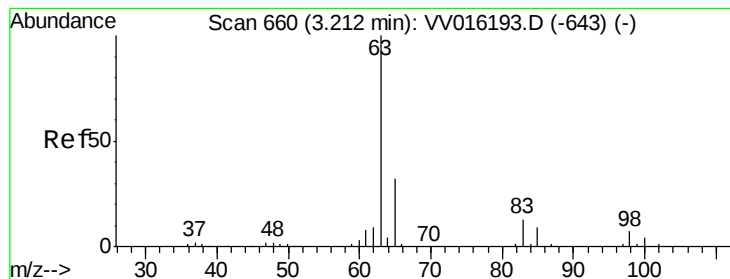
Tot Ion: 73 Resp: 71195  
Ion Ratio Lower Upper  
73 100  
43 22.9 17.8 26.8  
57 21.7 18.9 28.3



#18  
trans-1,2-Dichloroethene  
Concen: 4.483 ug/L  
RT: 2.77 min Scan# 523  
Delta R.T. -0.01 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion: 96 Resp: 30272  
Ion Ratio Lower Upper  
96 100  
61 149.3 99.8 185.4  
98 64.8 44.0 81.6





#19

1,1-Dichloroethane

Concen: 4.508 ug/L

RT: 3.21 min Scan# 658

Delta R.T. -0.01 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :  
MSVOA\_V  
ClientSampleId :

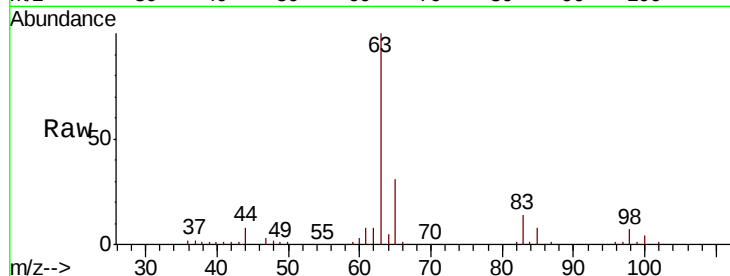
Tot Ion: 63 Resp: 57821

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.5  | 22.3  | 41.5  |
| 83  | 13.8  | 9.4   | 17.4  |

63 100

65 31.5 22.3 41.5

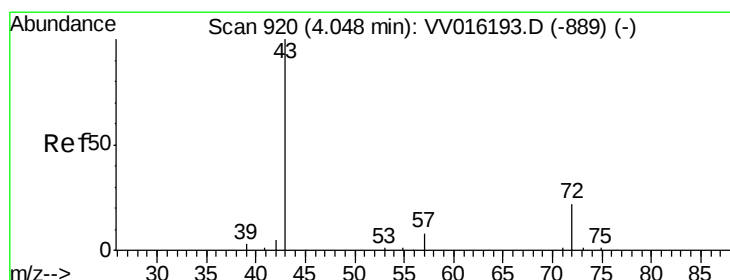
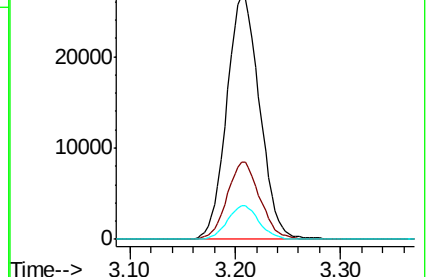
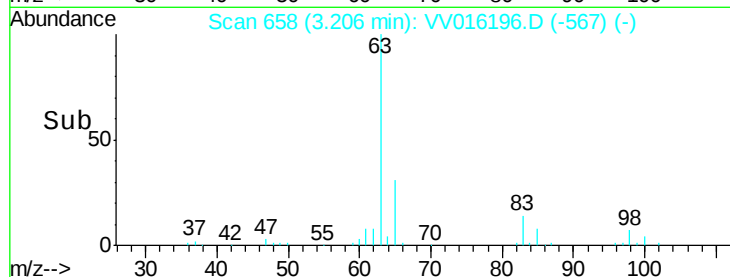
83 13.8 9.4 17.4



Abundance Ion 63.10 (62.80 to 63.80): VV016196.D (-567) (-)

Ion 65.10 (64.80 to 65.80): VV016196.D (-567) (-)

Ion 83.05 (82.75 to 83.75): VV016196.D (-567) (-)



#21

2-Butanone

Concen: 50.924 ug/L

RT: 4.04 min Scan# 918

Delta R.T. -0.01 min

Lab File: VV016196.D

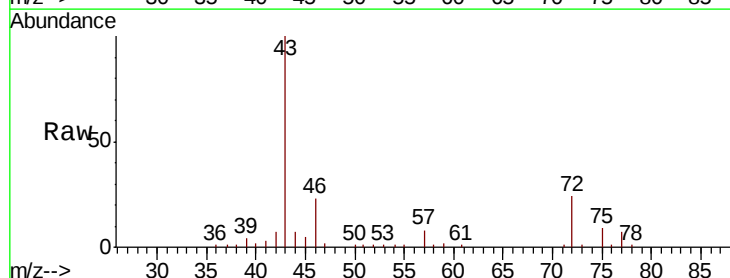
Acq: 26 May 2020 17:02

Tgt Ion: 43 Resp: 93452

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 21.5  | 9.7   | 28.9  |

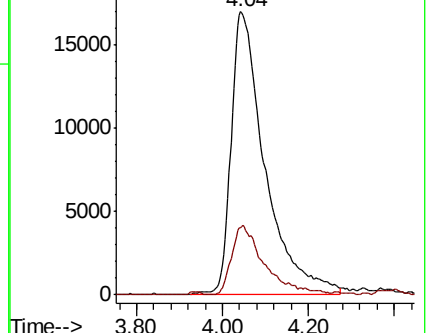
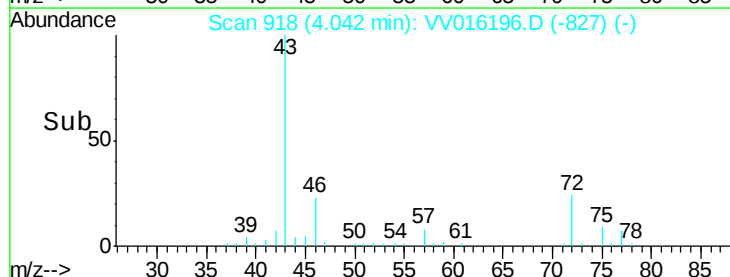
43 100

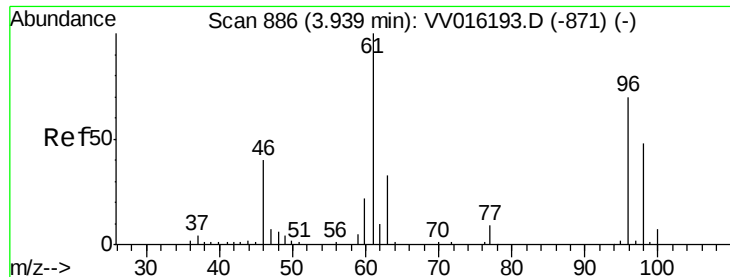
72 21.5 9.7 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV016196.D (-827) (-)

Ion 72.00 (71.70 to 72.70): VV016196.D (-827) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.677 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :  
MSVOA\_V  
ClientSampled :

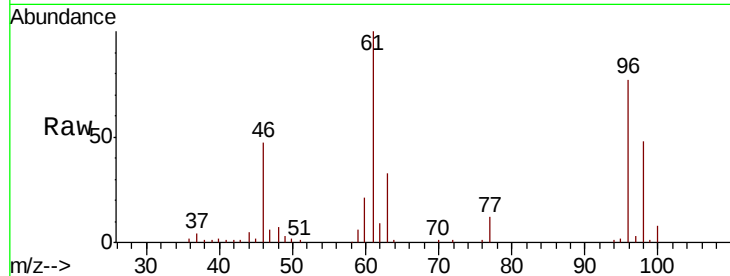
Tot Ion: 96 Resp: 37349

Ion Ratio Lower Upper

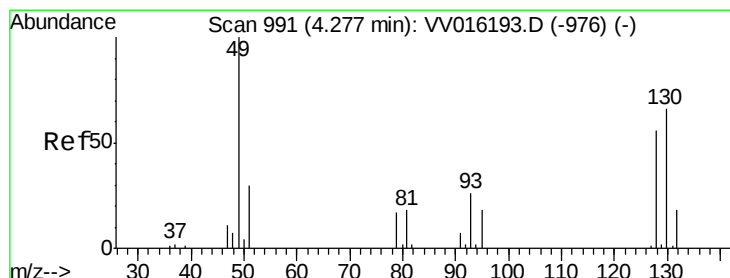
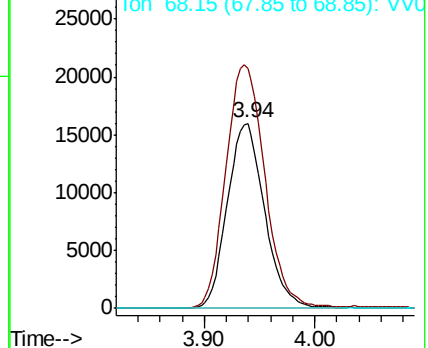
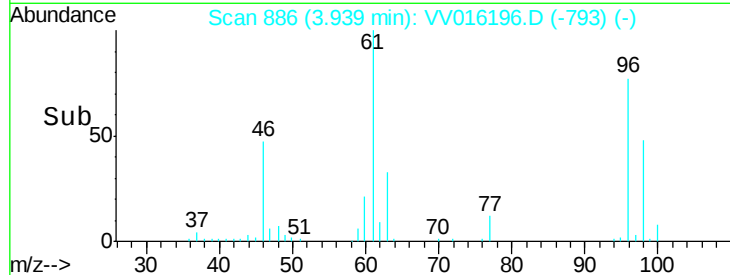
96 100

61 129.4 99.7 185.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV016196.D (-793) (-)



#23

Bromochloromethane

Concen: 4.880 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Tgt Ion: 128 Resp: 14792

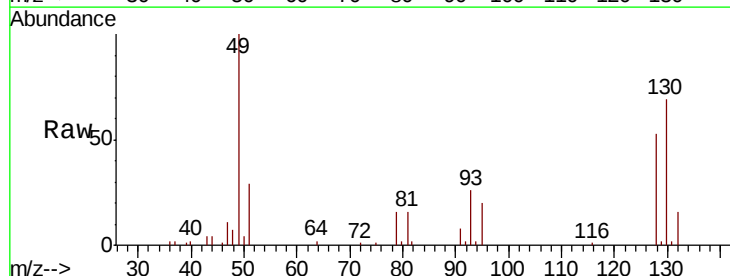
Ion Ratio Lower Upper

128 100

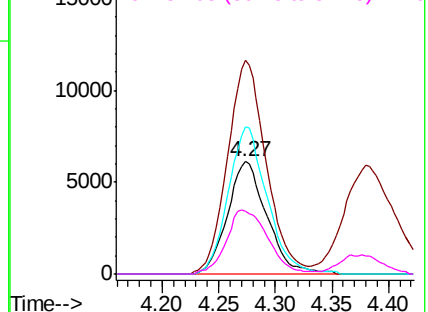
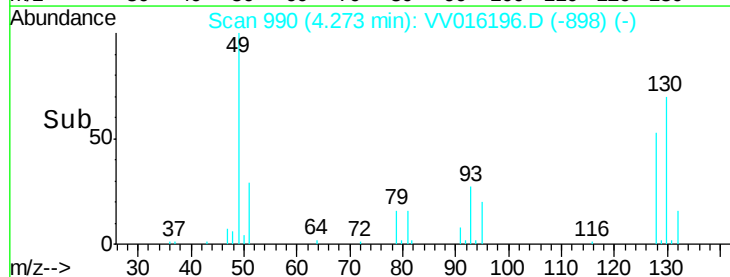
49 190.4 125.5 233.1

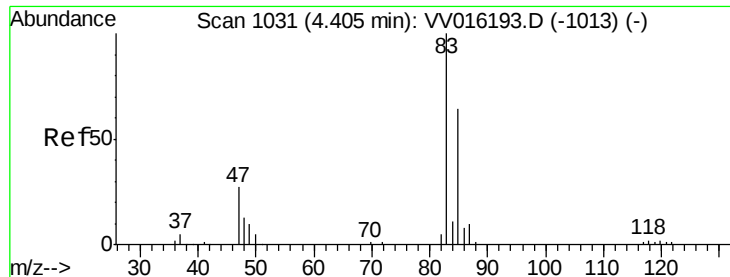
130 131.0 83.0 154.2

51 55.4 42.9 64.3



Abundance Ion 127.90 (127.60 to 128.60): VV016196.D (-898) (-)

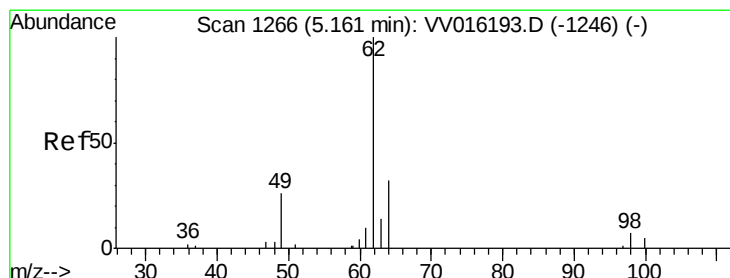
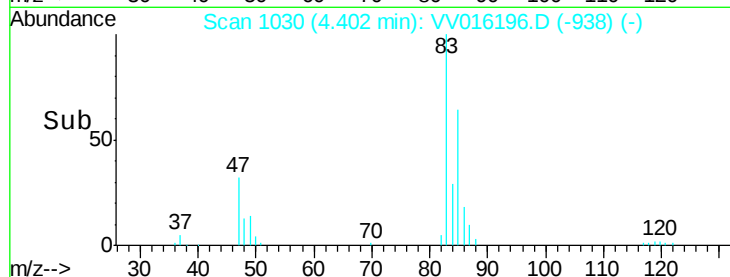
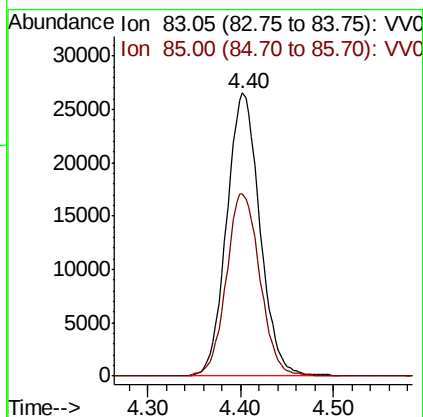
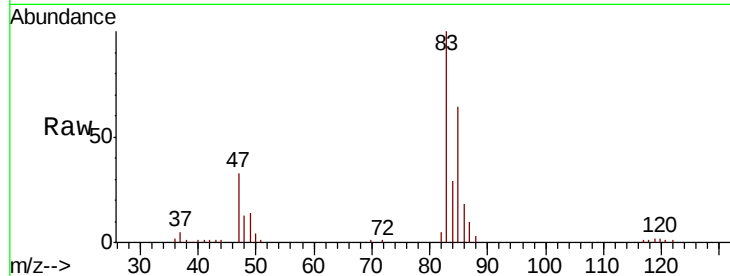




#25  
Chloroform  
Concen: 4.859 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. -0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

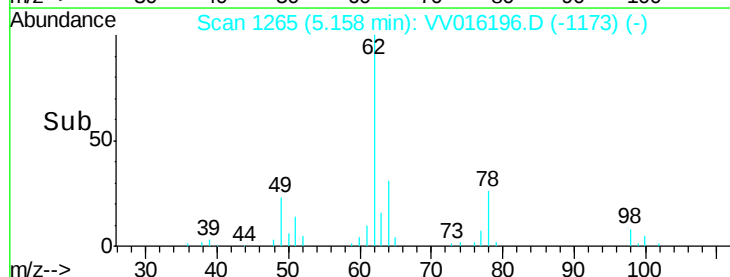
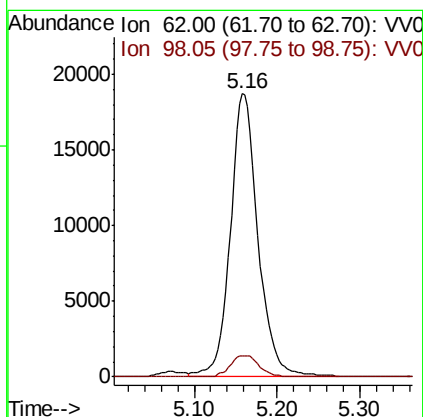
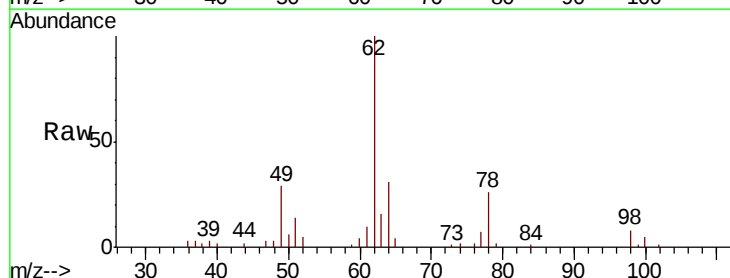
Instrument :  
MSVOA\_V  
ClientSampleId :

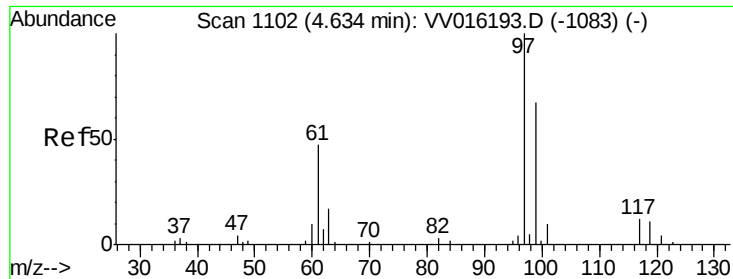
Tot Ion: 83 Resp: 65954  
Ion Ratio Lower Upper  
83 100  
85 64.3 45.1 83.7



#27  
1,2-Dichloroethane  
Concen: 4.921 ug/L  
RT: 5.16 min Scan# 1265  
Delta R.T. -0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion: 62 Resp: 43671  
Ion Ratio Lower Upper  
62 100  
98 7.6 5.7 8.5

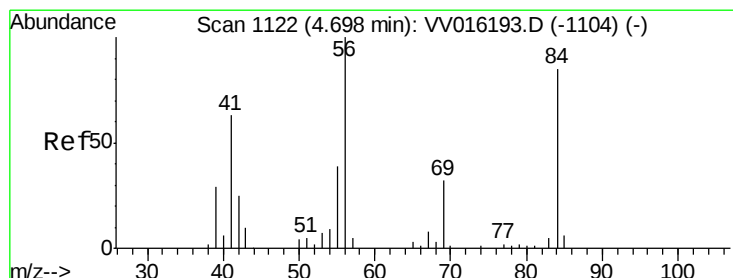
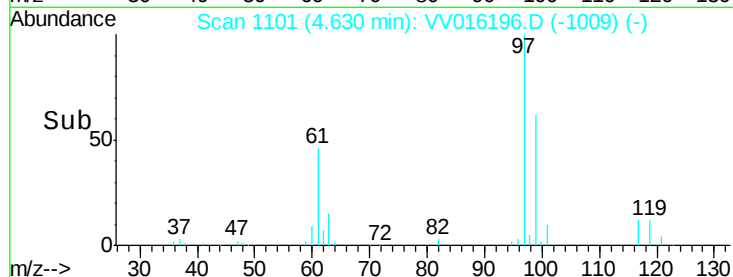
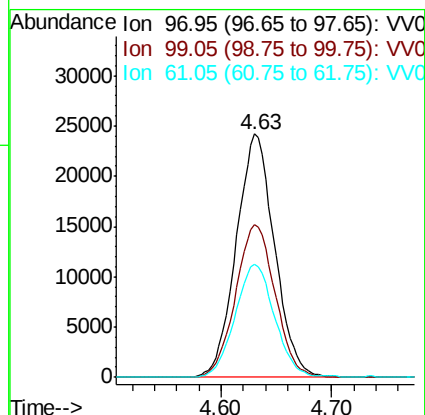
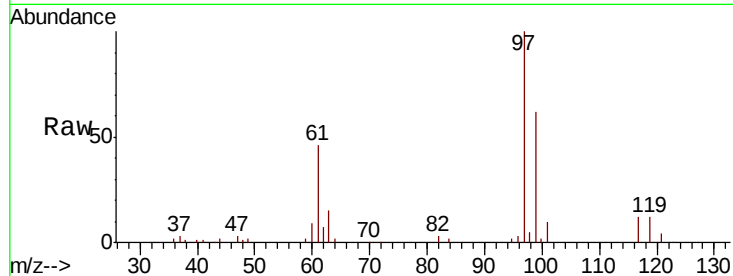




#29  
 1,1,1-Trichloroethane  
 Concen: 4.876 ug/L  
 RT: 4.63 min Scan# 1101  
 Delta R.T. -0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

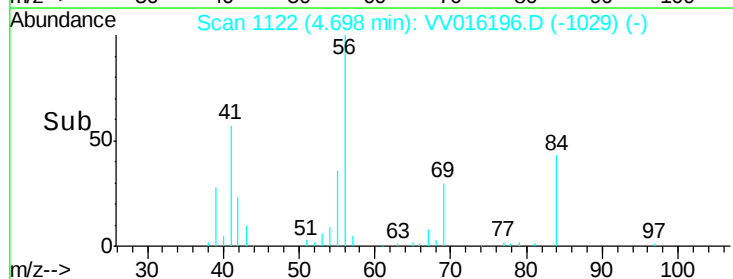
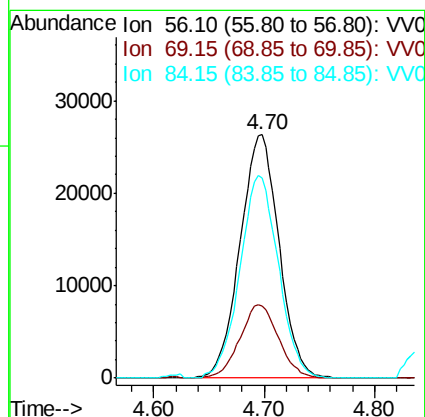
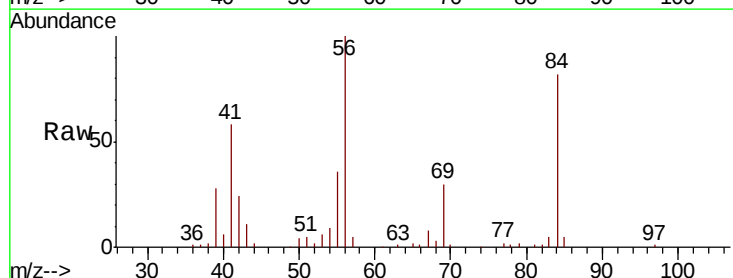
Instrument :  
 MSVOA\_V  
 ClientSampleId :

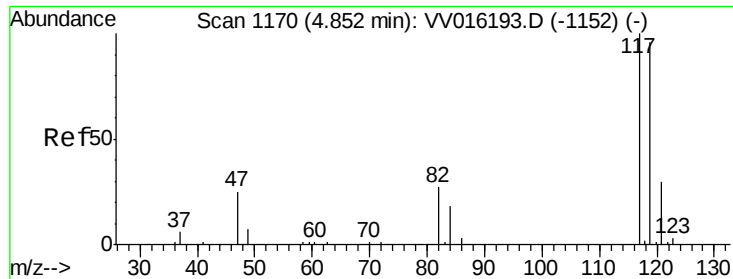
Tot Ion: 97 Resp: 58363  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.2 76.8  
 61 48.0 38.6 57.8



#30  
 Cyclohexane  
 Concen: 5.023 ug/L  
 RT: 4.70 min Scan# 1122  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

Tgt Ion: 56 Resp: 64436  
 Ion Ratio Lower Upper  
 56 100  
 69 29.8 24.6 36.8  
 84 82.2 67.1 100.7





#31

Carbon tetrachloride

Concen: 4.930 ug/L

RT: 4.85 min Scan# 1169

Delta R.T. -0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

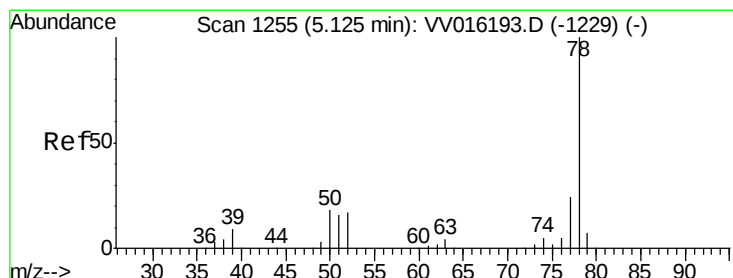
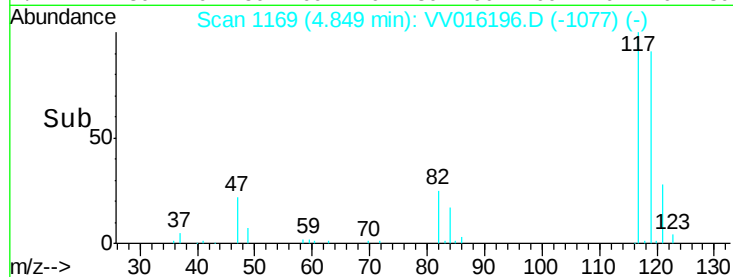
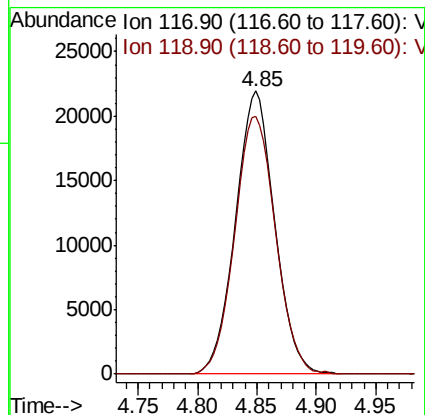
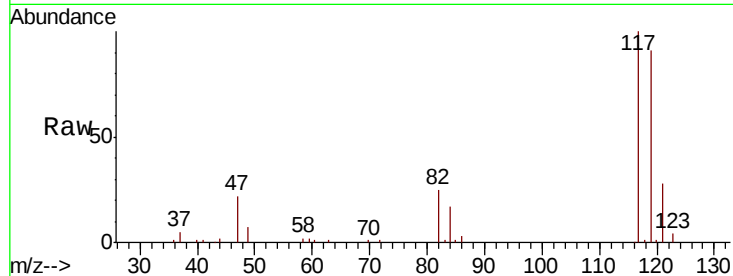
ClientSampleId :

Tot Ion:117 Resp: 50006

Ion Ratio Lower Upper

117 100

119 95.1 75.2 112.8



#33

Benzene

Concen: 4.936 ug/L

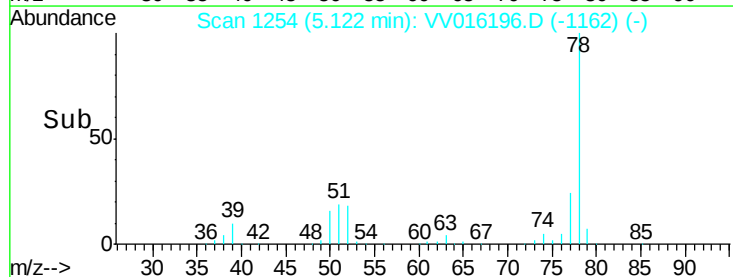
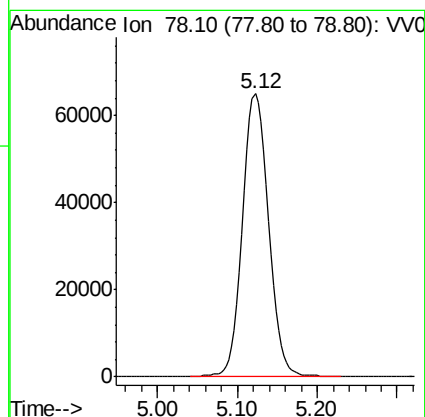
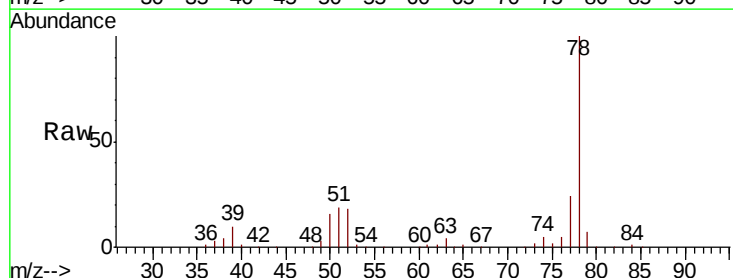
RT: 5.12 min Scan# 1254

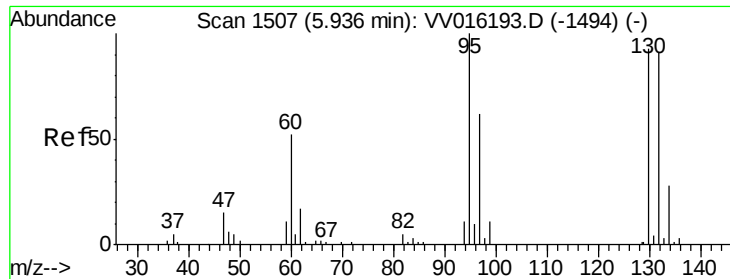
Delta R.T. -0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Tgt Ion: 78 Resp: 143263





#34

Trichloroethene

Concen: 4.889 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 36967

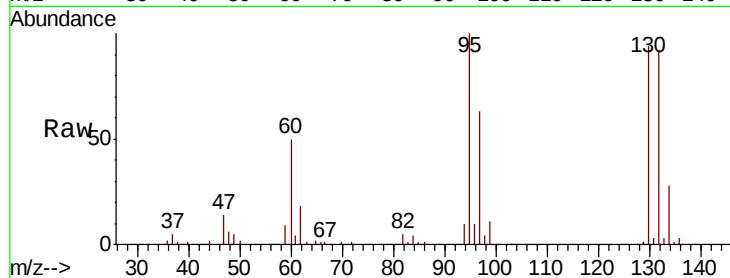
Ion Ratio Lower Upper

95 100

97 63.5 43.6 81.0

132 92.5 63.9 118.7

130 94.4 65.2 121.0



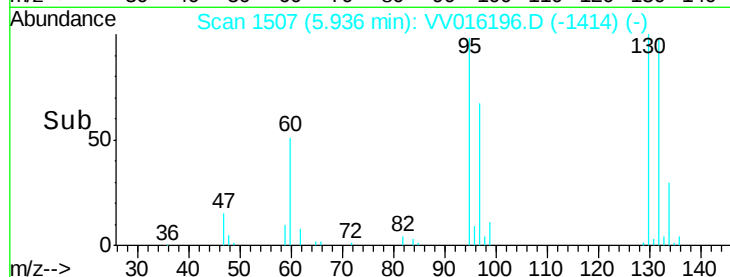
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

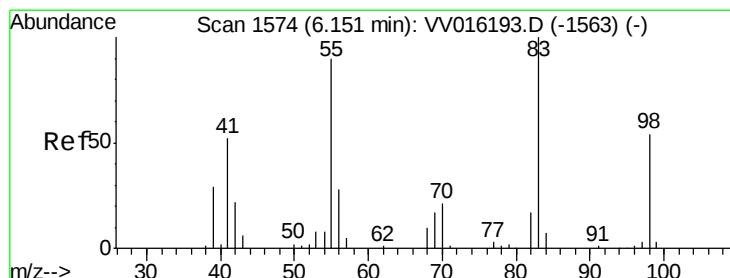
Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

Time-->



Time-->



#35

Methylcyclohexane

Concen: 5.021 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

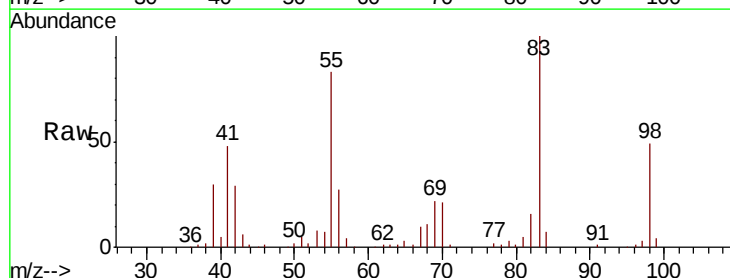
Tgt Ion: 83 Resp: 64024

Ion Ratio Lower Upper

83 100

55 82.5 65.4 98.0

98 48.3 39.3 58.9

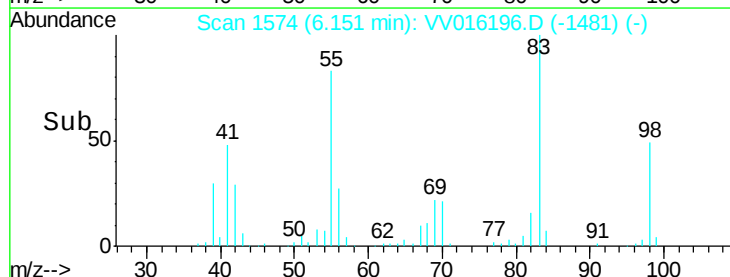


Abundance Ion 83.15 (82.85 to 83.85): VV0

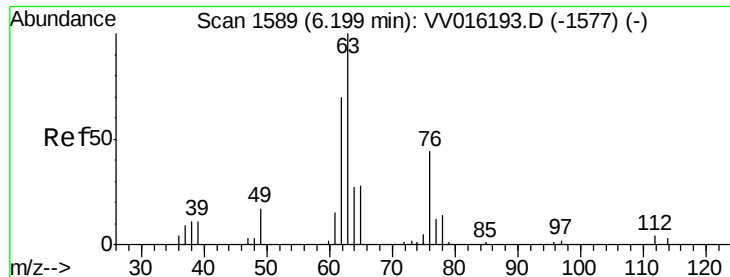
Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

Time-->



Time-->



#37

1,2-Dichloropropane

Concen: 5.004 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

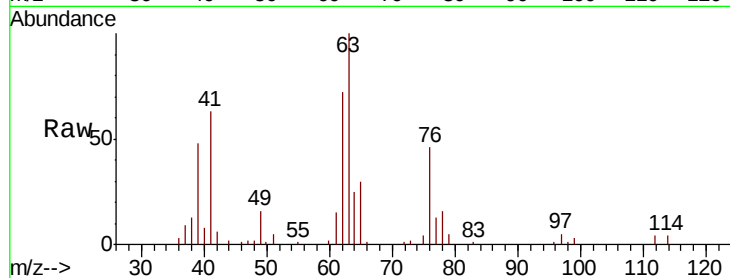
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 63 Resp: 35619

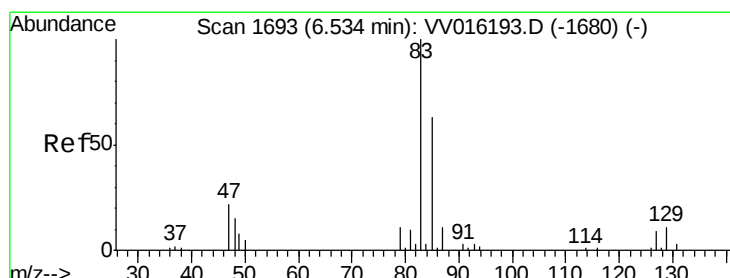
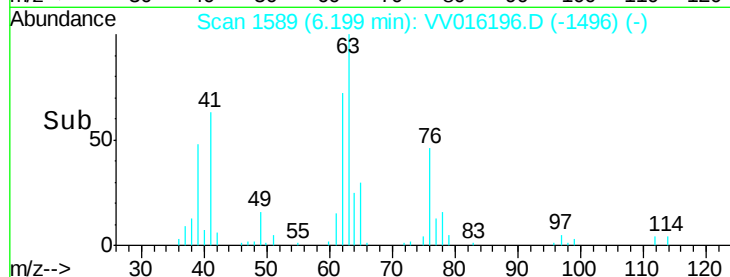
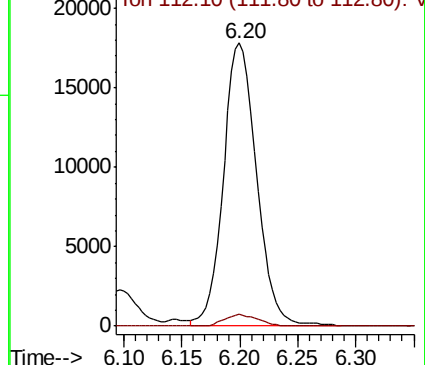
Ion Ratio Lower Upper

63 100

112 4.2 3.1 4.7



Abundance Ion 63.10 (62.80 to 63.80): VV016196.D (-1496) (-)



#38

Bromodichloromethane

Concen: 4.970 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

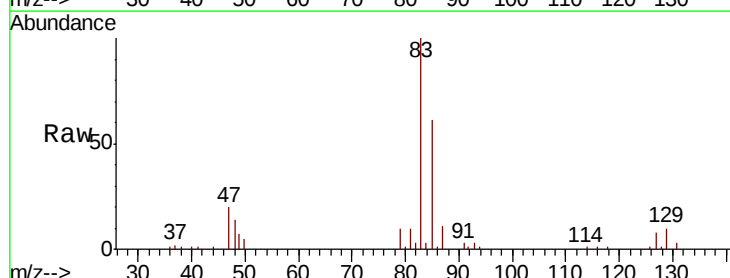
Tgt Ion: 83 Resp: 43529

Ion Ratio Lower Upper

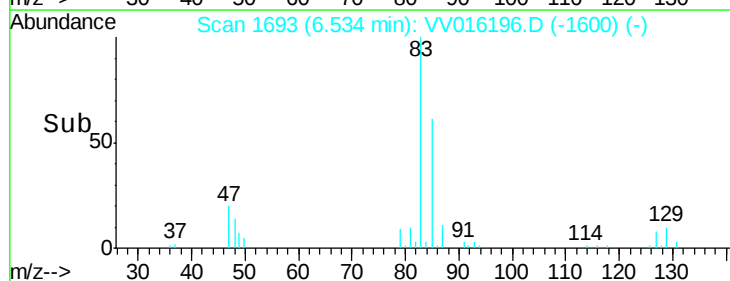
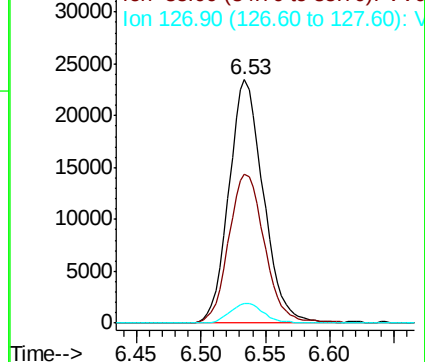
83 100

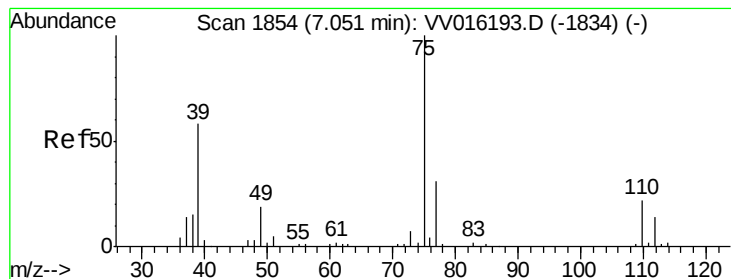
85 61.1 44.2 82.2

127 8.0 7.1 10.7



Abundance Ion 82.95 (82.65 to 83.65): VV016196.D (-1600) (-)



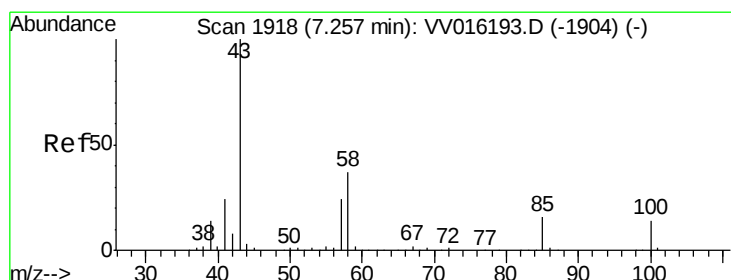
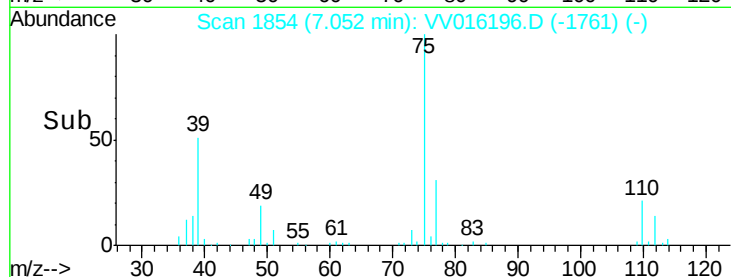
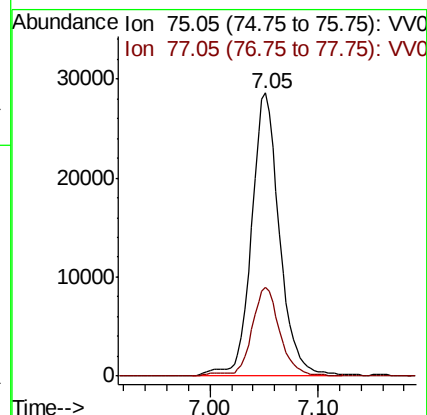
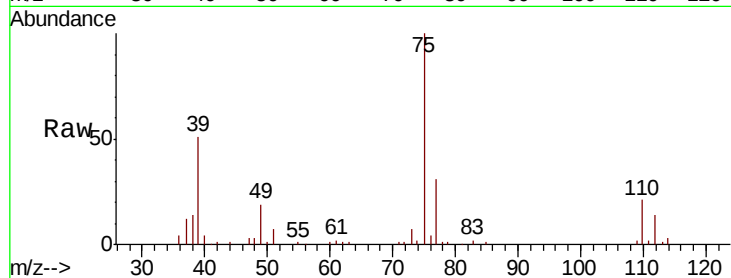


#39

cis-1,3-Dichloropropene  
Concen: 5.093 ug/L  
RT: 7.05 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Instrument :  
MSVOA\_V  
ClientSampleId :

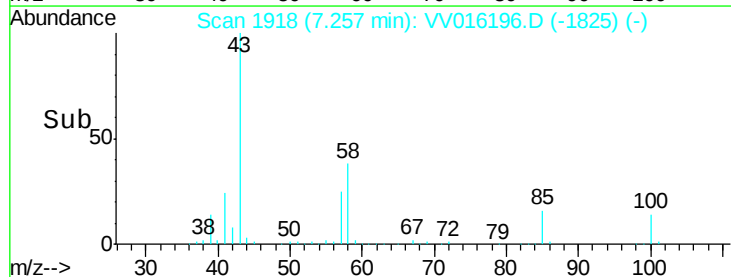
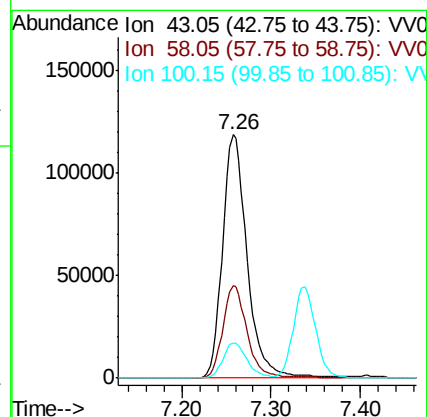
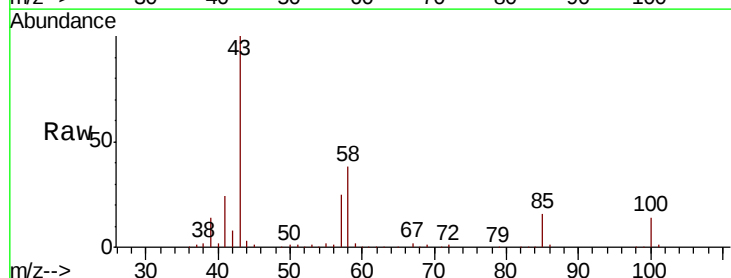
Tot Ion: 75 Resp: 51343  
Ion Ratio Lower Upper  
75 100  
77 31.3 21.7 40.3

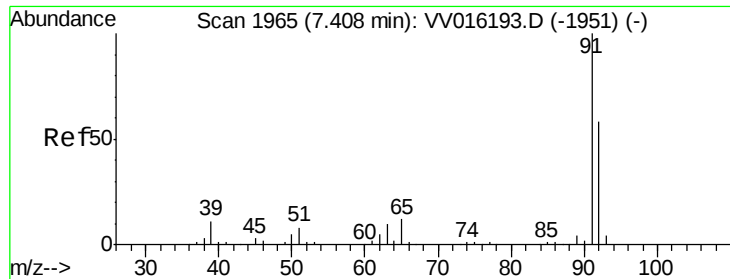


#40

4-Methyl-2-pentanone  
Concen: 51.182 ug/L  
RT: 7.26 min Scan# 1918  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion: 43 Resp: 226659  
Ion Ratio Lower Upper  
43 100  
58 37.1 29.5 44.3  
100 14.1 11.1 16.7





#42

Toluene

Concen: 4.989 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

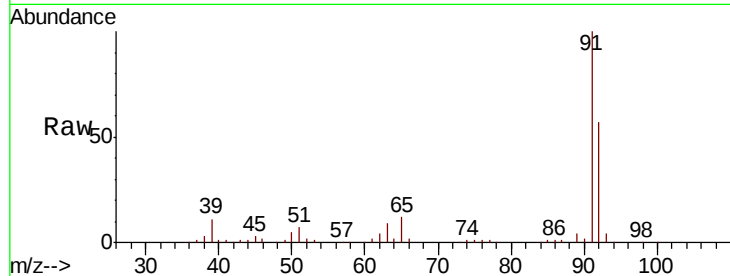
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 157907

Ion Ratio Lower Upper

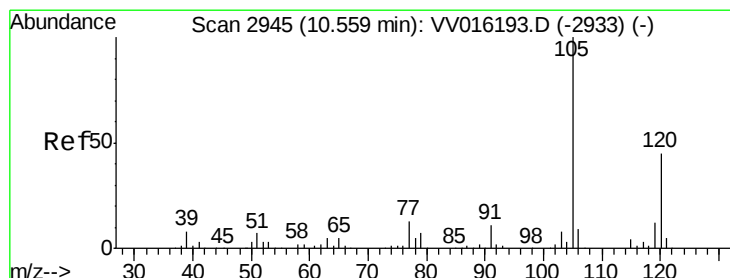
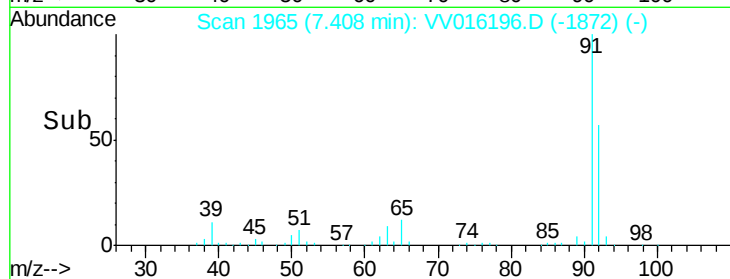
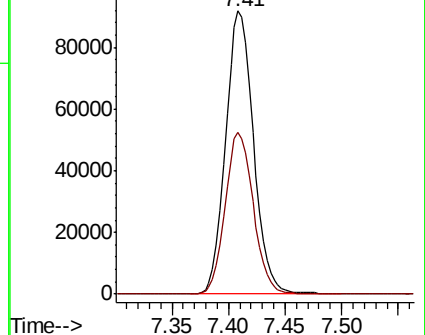
91 100

92 57.1 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV016193.D (-1951) (-)

Ion 92.15 (91.85 to 92.85): VV016193.D (-1951) (-)



#43

1,3,5-Trimethylbenzene

Concen: 5.153 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV016196.D

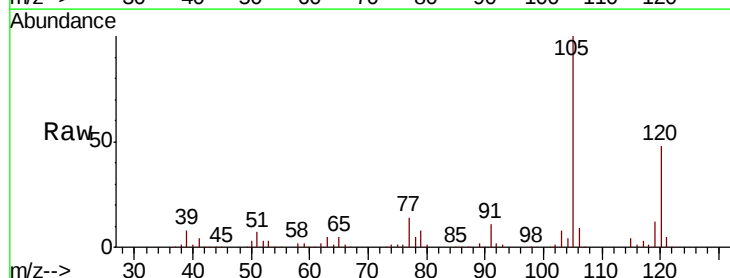
Acq: 26 May 2020 17:02

Tgt Ion:105 Resp: 148481

Ion Ratio Lower Upper

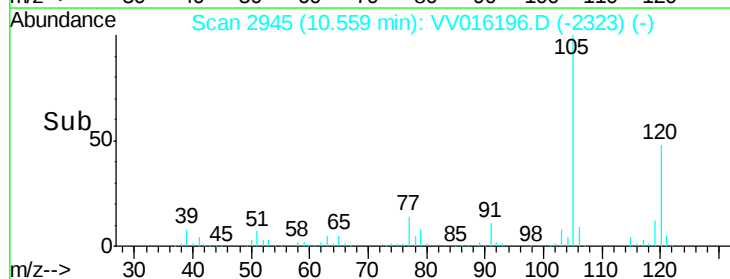
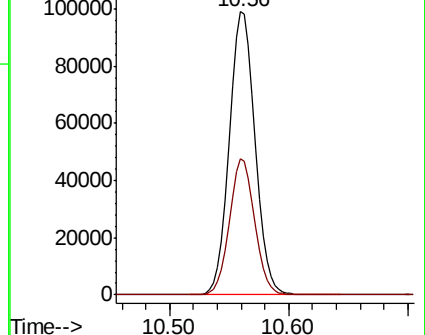
105 100

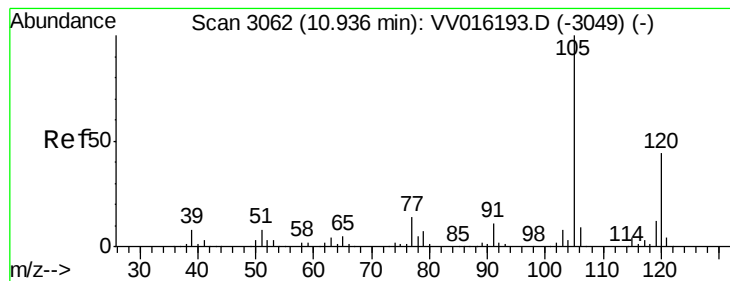
120 47.1 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): VV016193.D (-2933) (-)

Ion 120.00 (119.70 to 120.70): VV016193.D (-2933) (-)





#44

1,2,4-Trimethylbenzene

Concen: 3.886 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

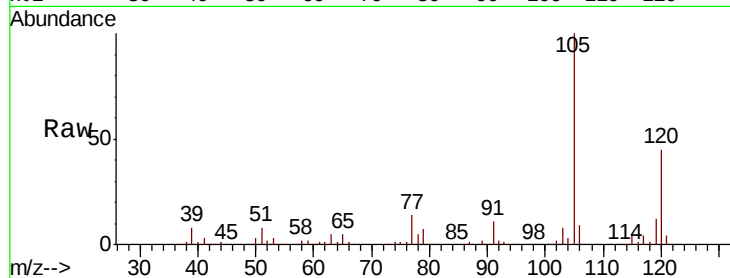
ClientSampled :

Tot Ion:105 Resp: 115332

Ion Ratio Lower Upper

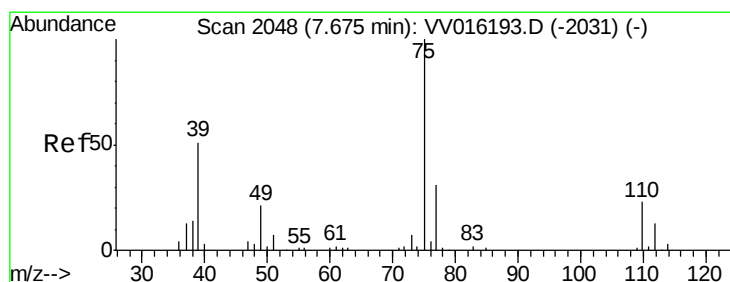
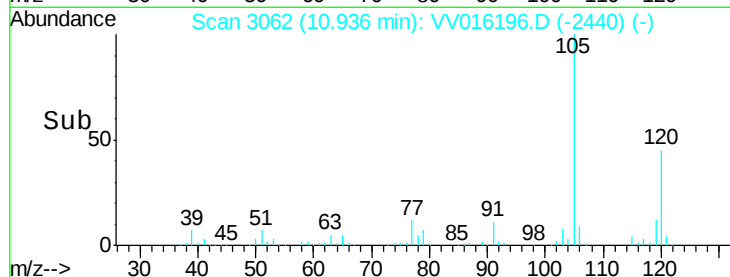
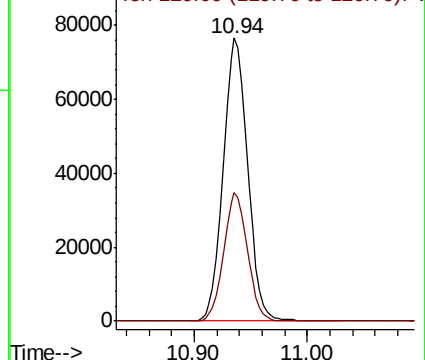
105 100

120 43.9 34.6 52.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#46

trans-1,3-Dichloropropene

Concen: 5.237 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.00 min

Lab File: VV016196.D

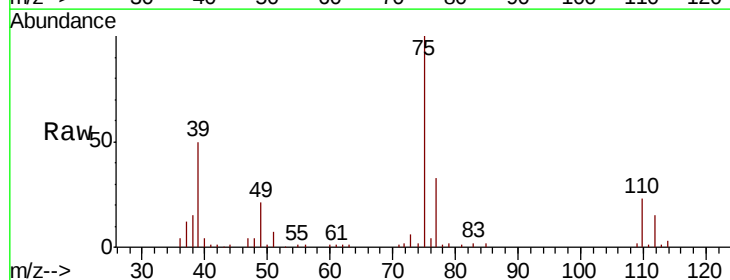
Acq: 26 May 2020 17:02

Tgt Ion: 75 Resp: 43865

Ion Ratio Lower Upper

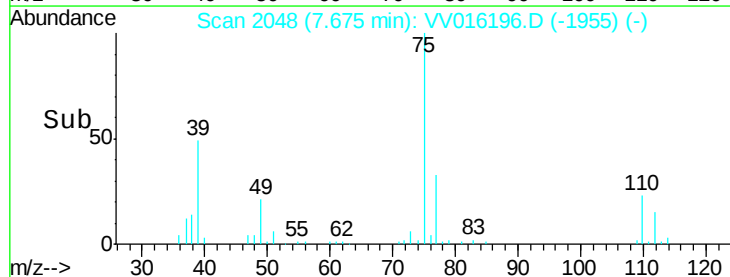
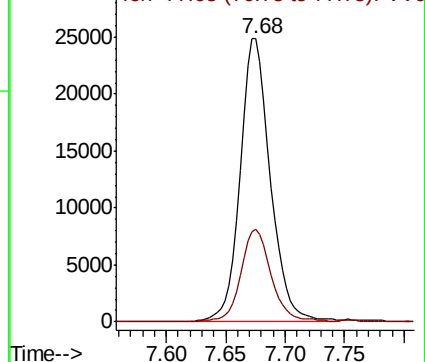
75 100

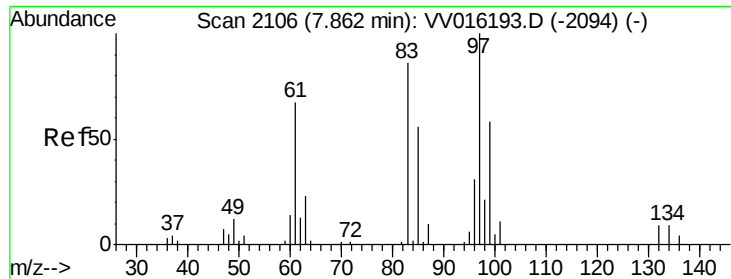
77 32.6 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

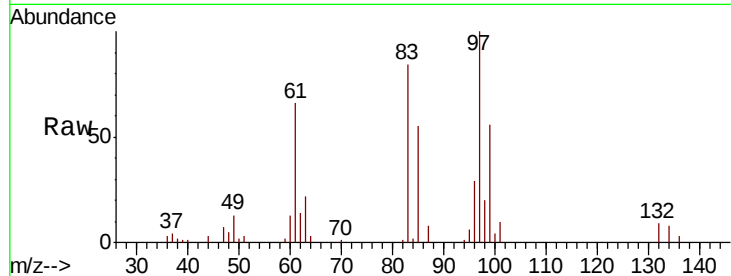




#47  
 1,1,2-Trichloroethane  
 Concen: 5.049 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

Instrument :  
 MSVOA\_V  
 ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 23637 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 55.7  | 40.8  | 75.8  |
| 83       | 84.3  | 60.0  | 111.4 |
| 85       | 54.5  | 39.3  | 73.1  |

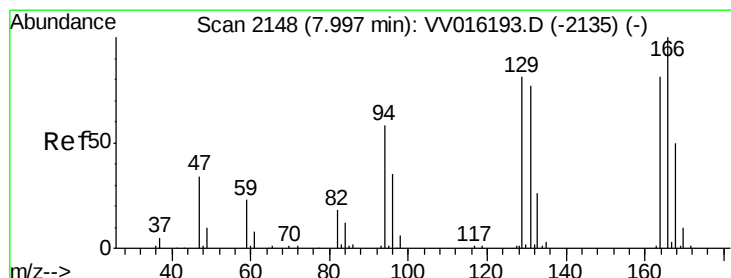
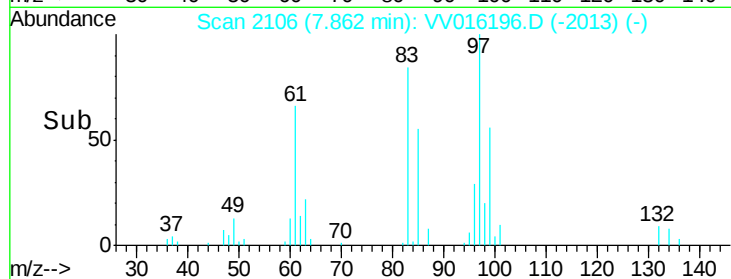
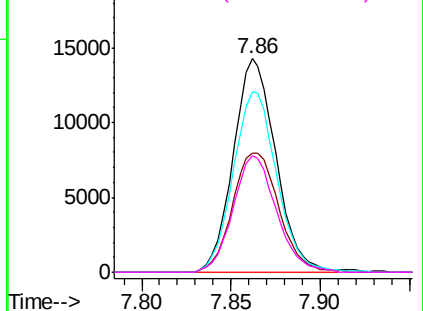


Abundance Ion 96.95 (96.65 to 97.65): VV016196.D (-2013) (-)

Ion 99.05 (98.75 to 99.75): VV016196.D (-2013) (-)

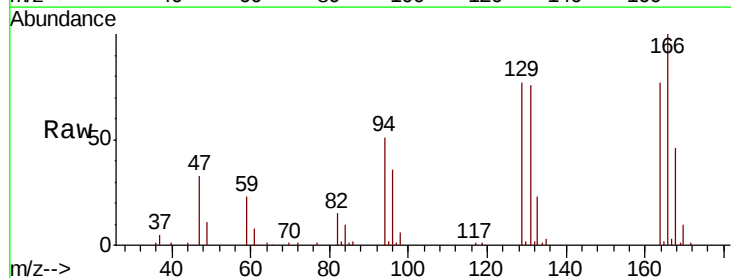
Ion 82.95 (82.65 to 83.65): VV016196.D (-2013) (-)

Ion 85.00 (84.70 to 85.70): VV016196.D (-2013) (-)



#49  
 Tetrachloroethene  
 Concen: 4.999 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 27136 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.2  | 70.7  | 131.3 |
| 131      | 98.0  | 66.6  | 123.8 |
| 166      | 129.7 | 86.9  | 161.5 |

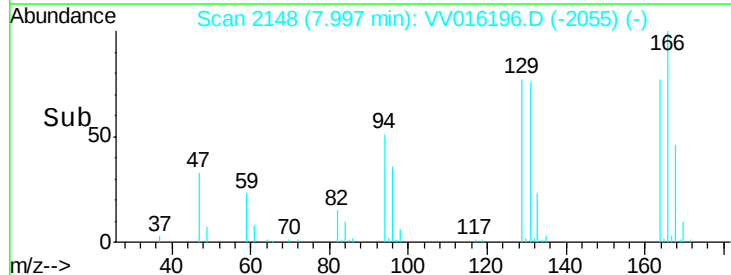
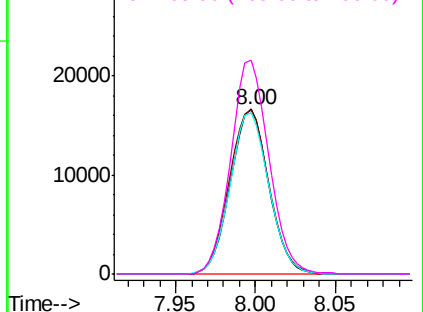


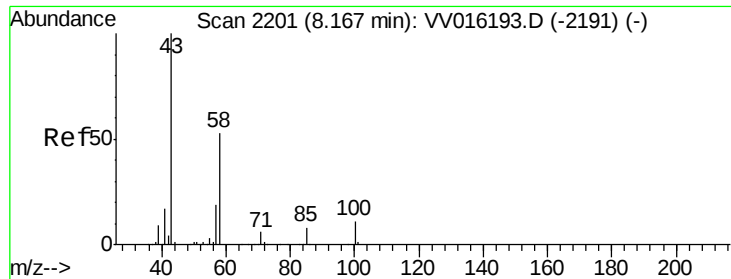
Abundance Ion 163.90 (163.60 to 164.60): VV016196.D (-2055) (-)

Ion 128.95 (128.65 to 129.65): VV016196.D (-2055) (-)

Ion 130.95 (130.65 to 131.65): VV016196.D (-2055) (-)

Ion 165.90 (165.60 to 166.60): VV016196.D (-2055) (-)

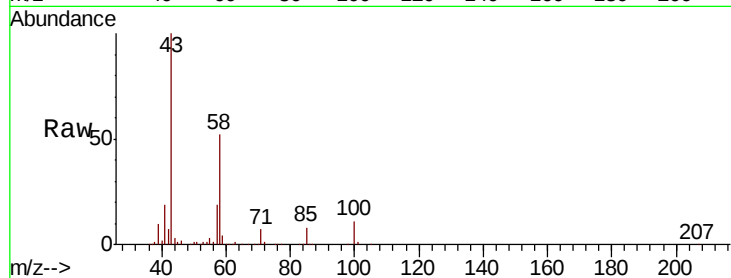




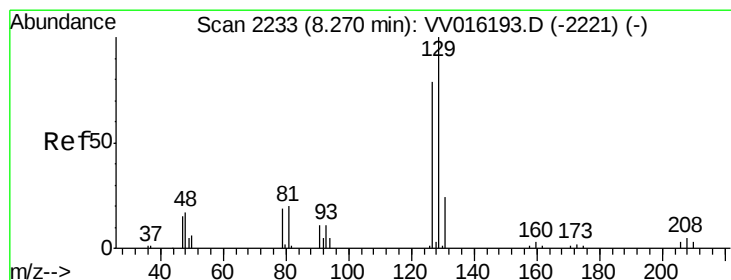
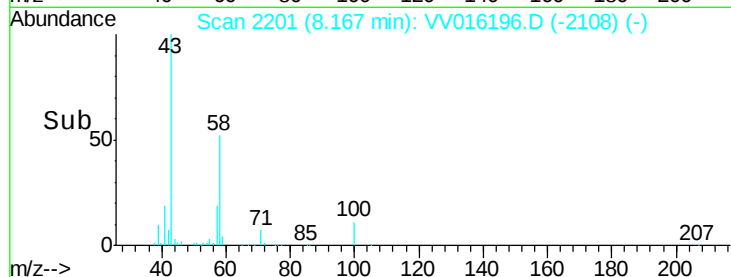
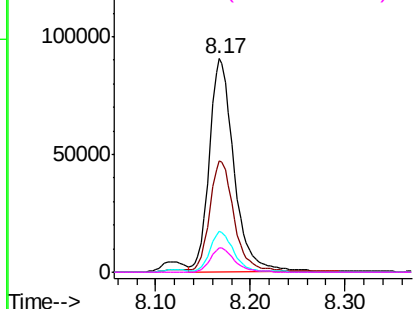
#50  
2-Hexanone  
Concen: 53.309 ug/L  
RT: 8.17 min Scan# 2201  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 164639  
Ion Ratio Lower Upper  
43 100  
58 51.6 41.4 62.0  
57 18.4 15.0 22.4  
100 11.3 9.0 13.4

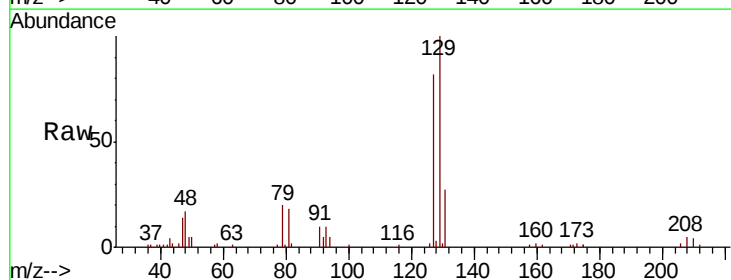


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

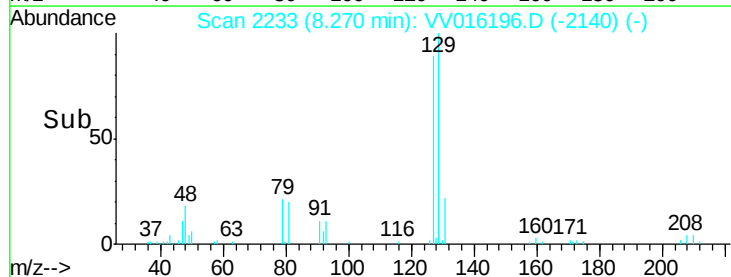
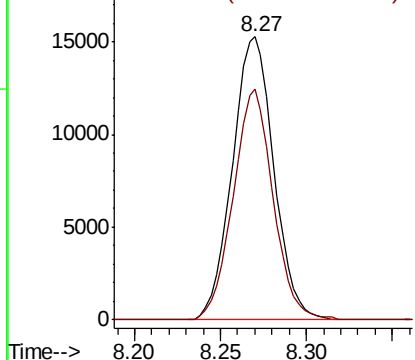


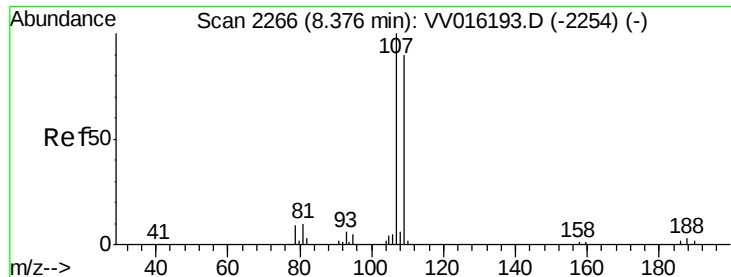
#51  
Dibromochloromethane  
Concen: 5.149 ug/L  
RT: 8.27 min Scan# 2233  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion: 129 Resp: 25534  
Ion Ratio Lower Upper  
129 100  
127 81.8 55.2 102.4



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

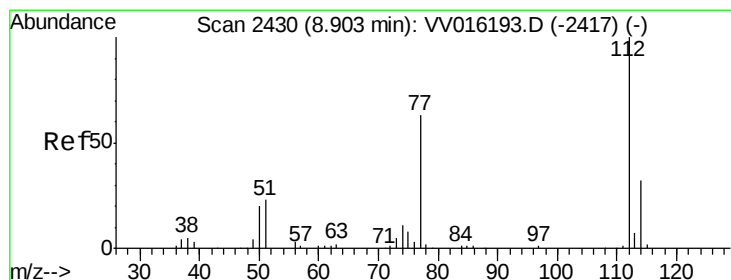
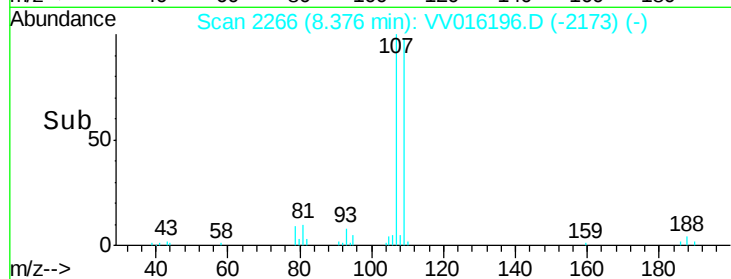
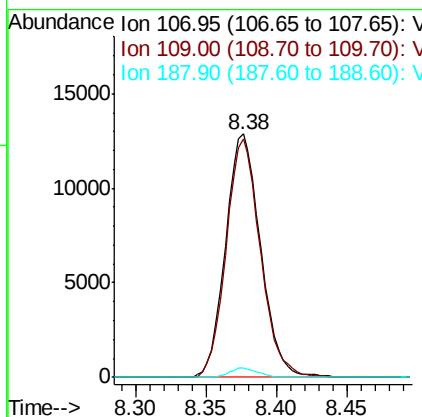
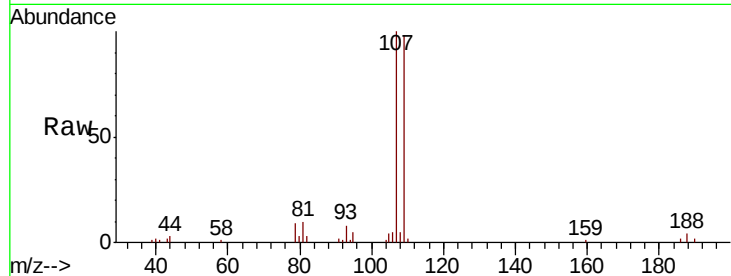




#52  
1,2-Dibromoethane  
Concen: 5.071 ug/L  
RT: 8.38 min Scan# 2266  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

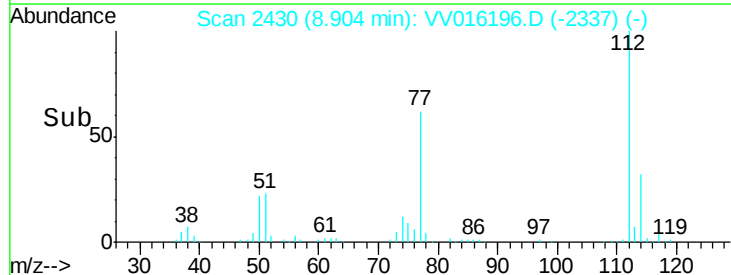
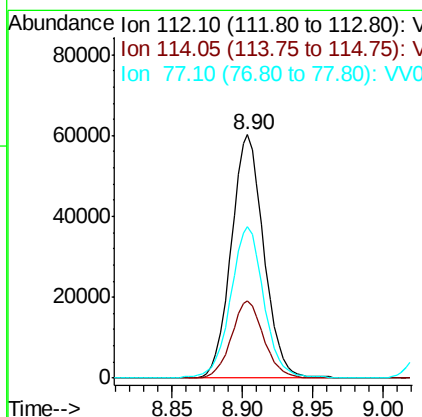
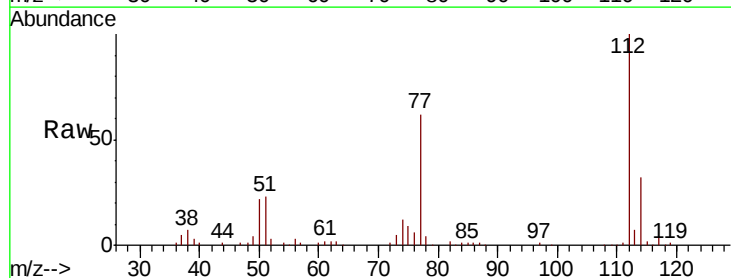
Instrument :  
MSVOA\_V  
ClientSampleId :

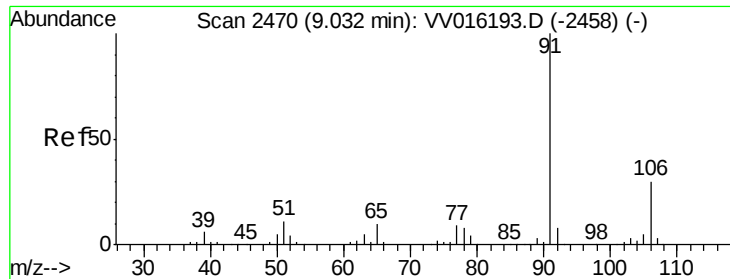
Tot Ion:107 Resp: 22307  
Ion Ratio Lower Upper  
107 100  
109 97.9 63.1 117.3  
188 3.7 2.6 4.0



#53  
Chlorobenzene  
Concen: 4.971 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion:112 Resp: 97209  
Ion Ratio Lower Upper  
112 100  
114 31.9 22.3 41.3  
77 62.3 50.7 76.1





#54

Ethylbenzene

Concen: 4.935 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

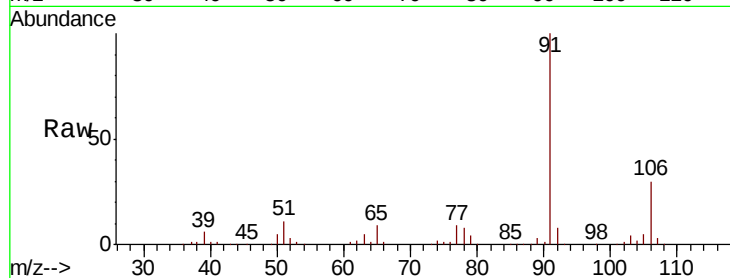
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 174103

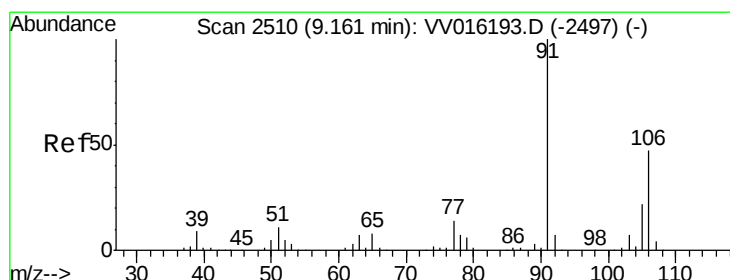
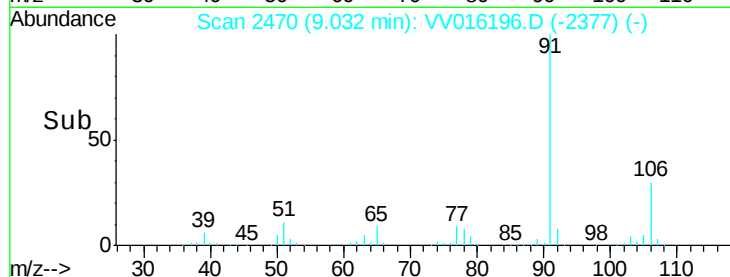
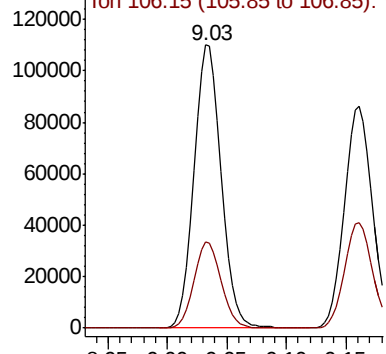
Ion Ratio Lower Upper

91 100

106 30.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VV016196.D (-2377) (-)



#55

m,p-xylene

Concen: 5.074 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV016196.D

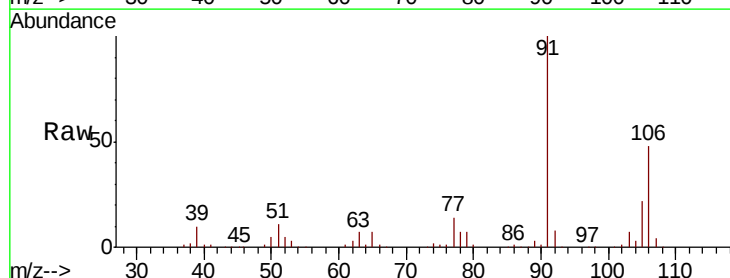
Acq: 26 May 2020 17:02

Tgt Ion: 106 Resp: 67119

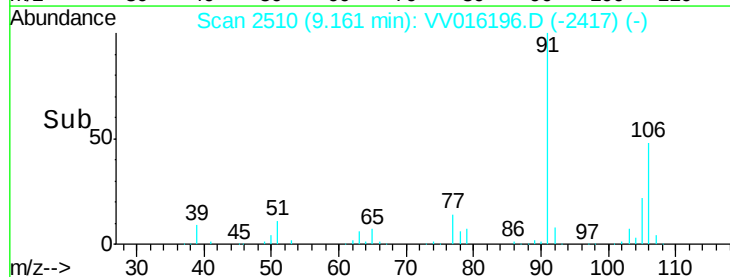
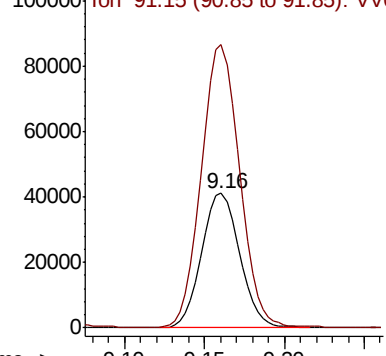
Ion Ratio Lower Upper

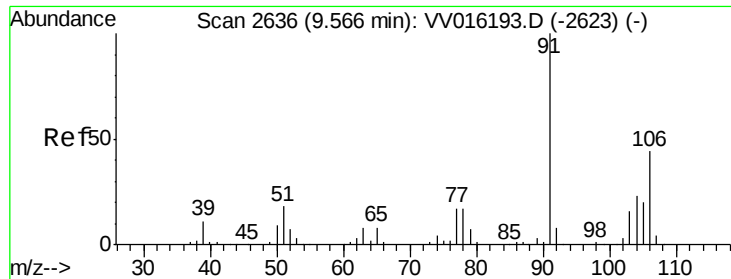
106 100

91 210.0 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): VV016196.D (-2417) (-)

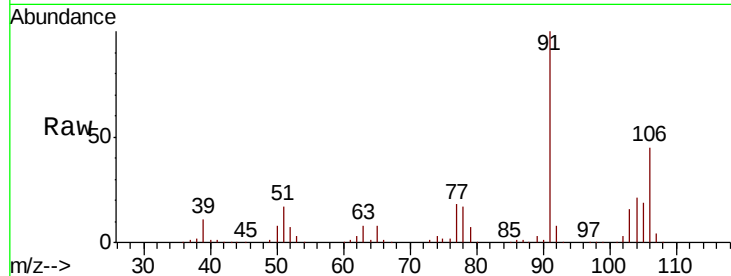




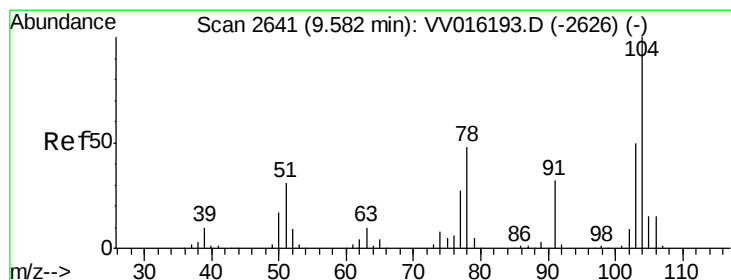
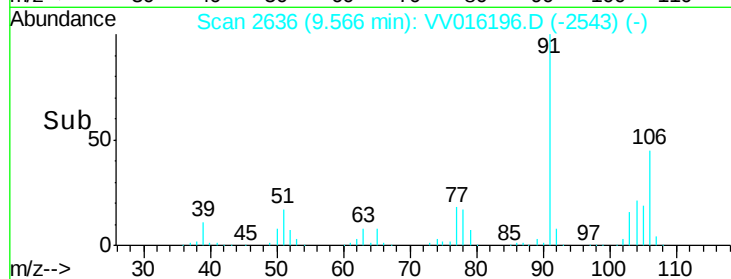
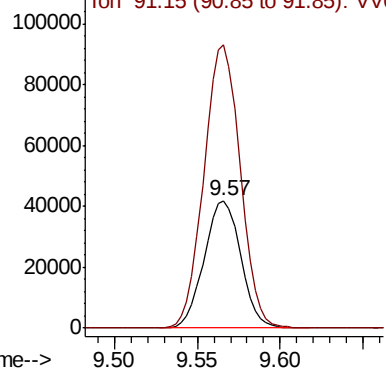
#56  
o-xylene  
Concen: 5.109 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 64400  
Ion Ratio Lower Upper  
106 100  
91 221.4 158.8 294.8

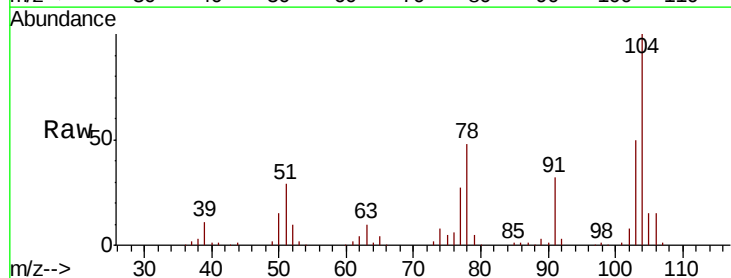


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

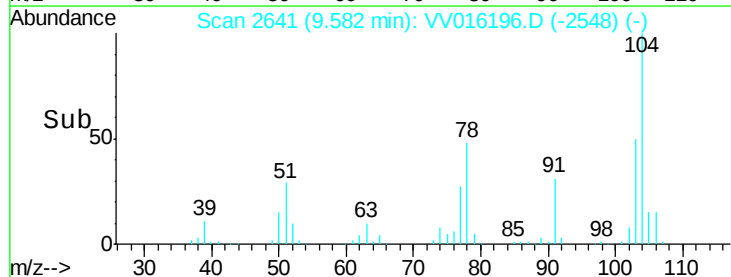
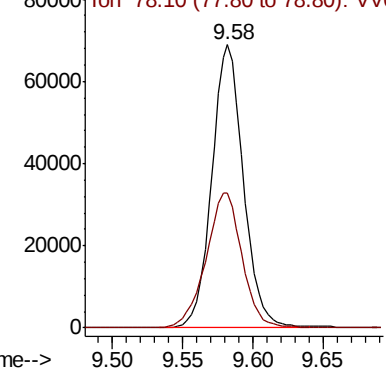


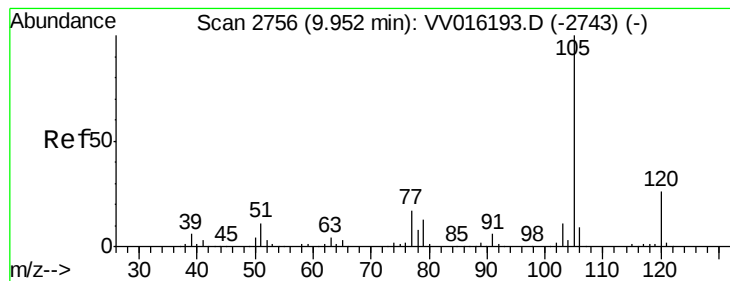
#57  
Styrene  
Concen: 5.151 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV016196.D  
Acq: 26 May 2020 17:02

Tgt Ion:104 Resp: 108067  
Ion Ratio Lower Upper  
104 100  
78 47.5 33.2 61.7



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 5.027 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

ClientSampleId :

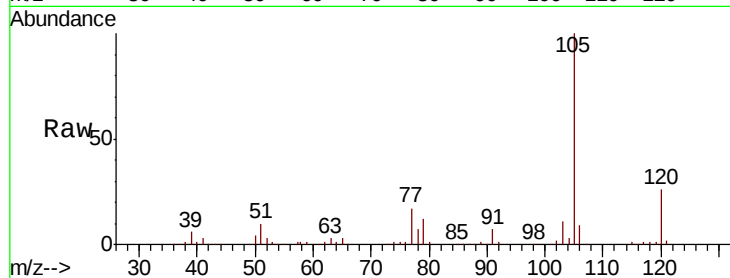
Tot Ion:105 Resp: 173575

Ion Ratio Lower Upper

105 100

120 25.6 20.9 31.3

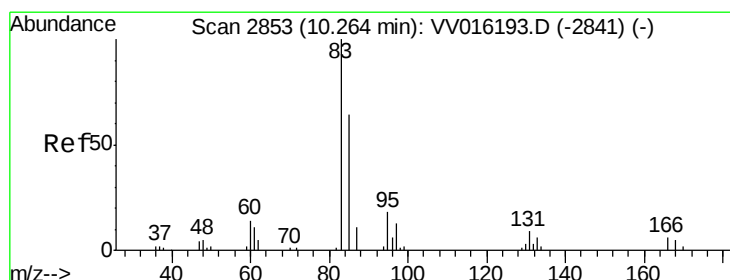
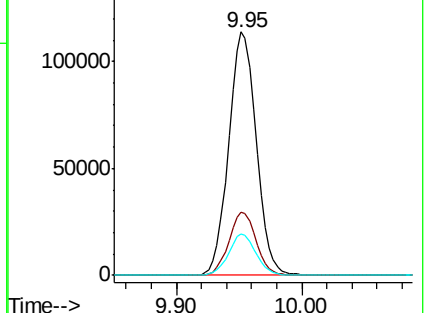
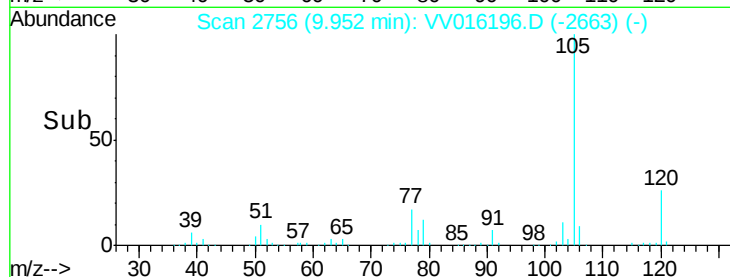
77 16.7 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#60

1,1,2,2-Tetrachloroethane

Concen: 5.049 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

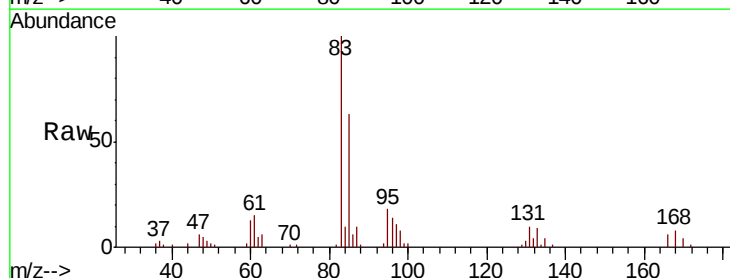
Tgt Ion: 83 Resp: 29385

Ion Ratio Lower Upper

83 100

85 63.2 45.6 84.8

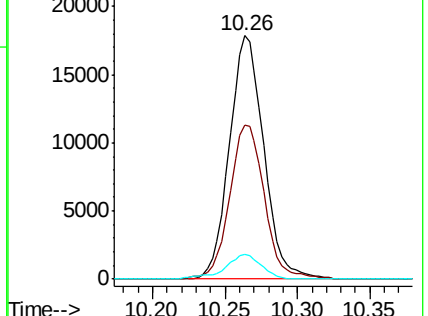
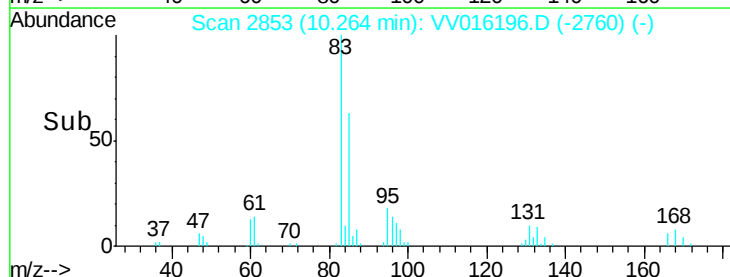
131 10.2 7.9 11.9

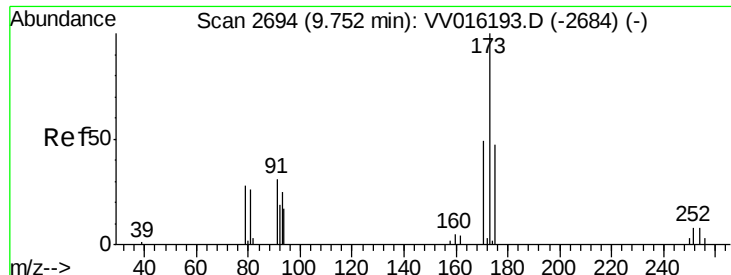


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#62

Bromoform

Concen: 5.578 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :  
MSVOA\_V  
ClientSampleId :

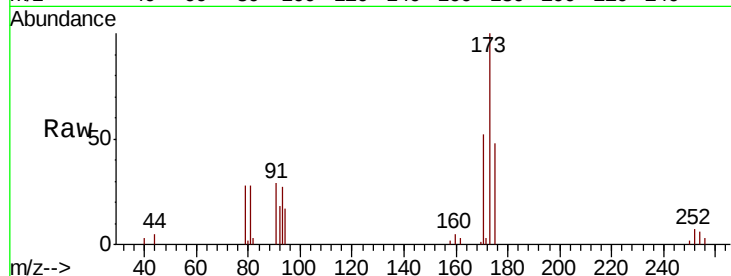
Tot Ion:173 Resp: 11806

Ion Ratio Lower Upper

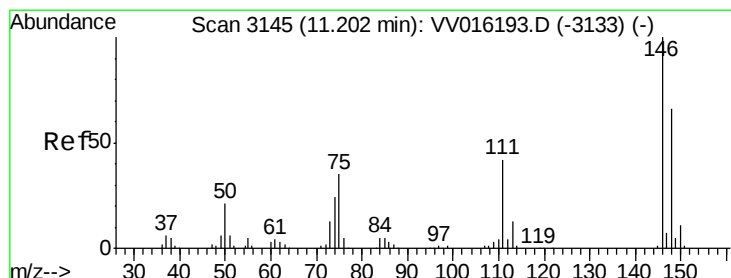
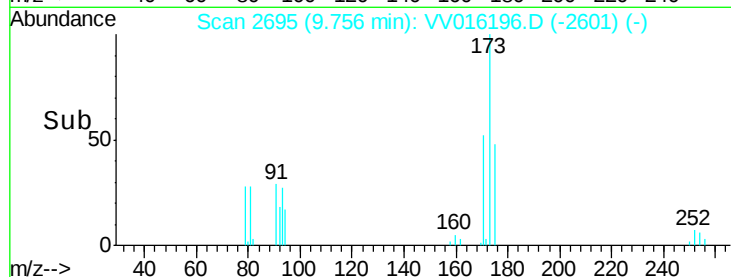
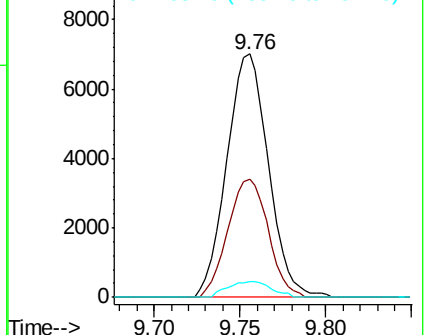
173 100

175 47.0 38.6 58.0

254 6.8 6.6 9.8



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: 5.147 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

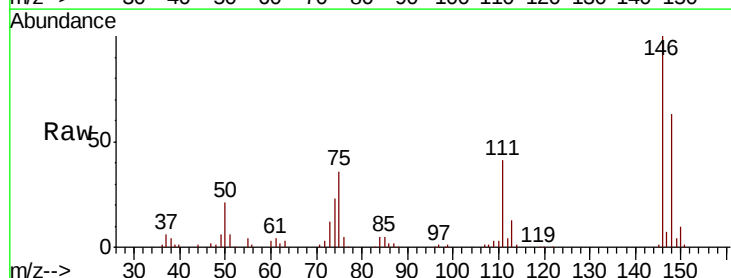
Tgt Ion:146 Resp: 77300

Ion Ratio Lower Upper

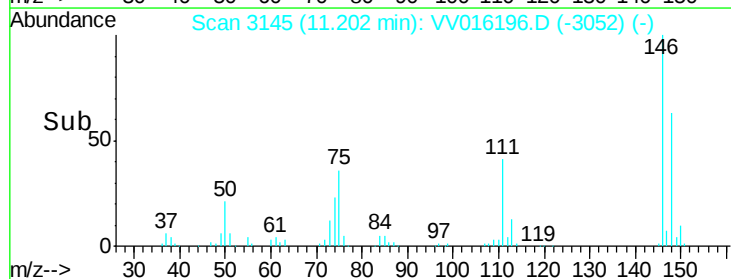
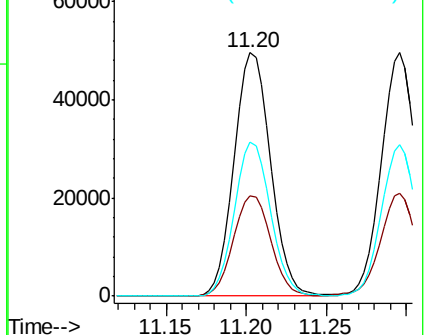
146 100

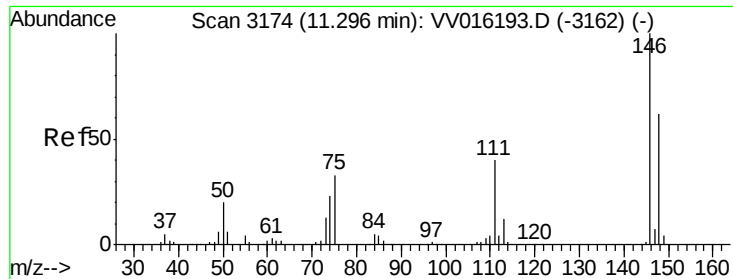
111 41.1 29.7 55.1

148 63.1 45.9 85.3



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: 5.013 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

ClientSampleId :

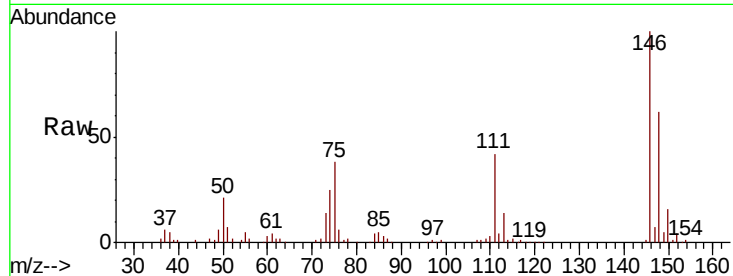
Tot Ion:146 Resp: 76517

Ion Ratio Lower Upper

146 100

111 42.5 28.3 52.7

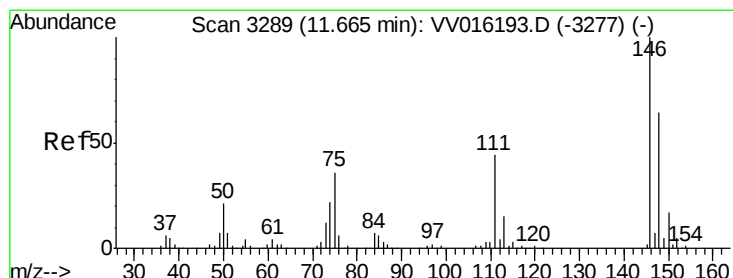
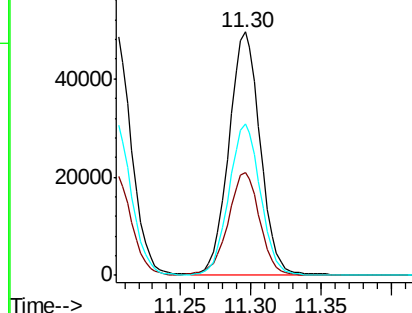
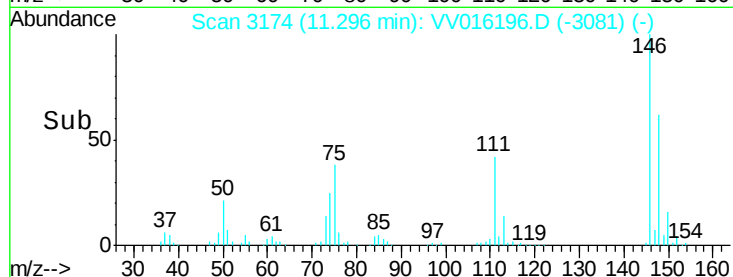
148 62.4 43.3 80.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 5.101 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016196.D

Acq: 26 May 2020 17:02

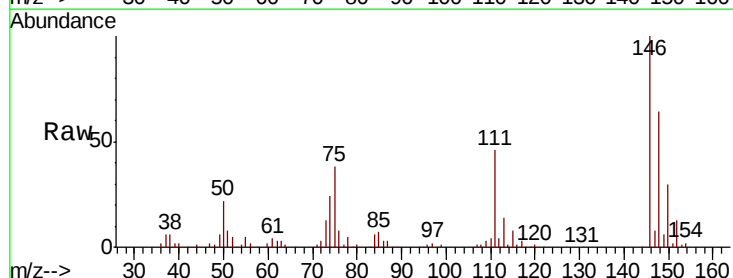
Tgt Ion:146 Resp: 69250

Ion Ratio Lower Upper

146 100

111 45.6 35.7 53.5

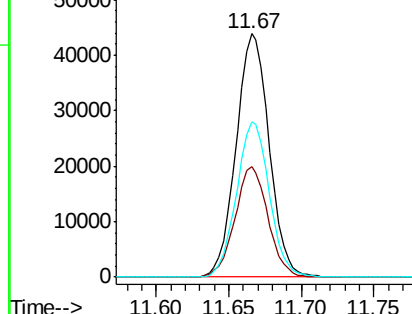
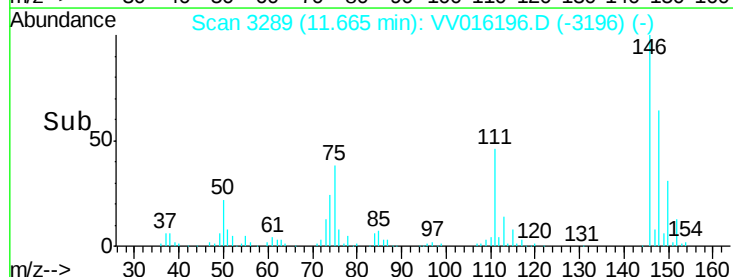
148 64.0 51.3 76.9

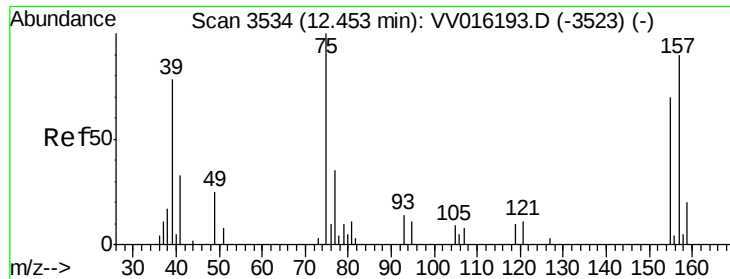


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

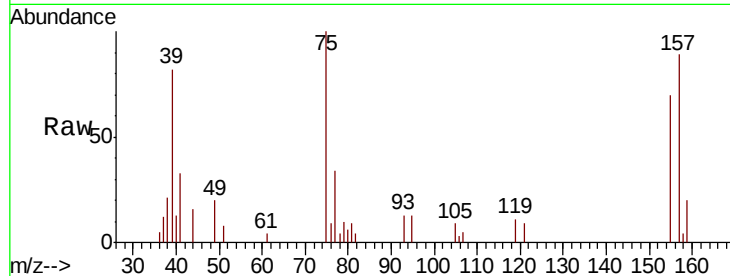




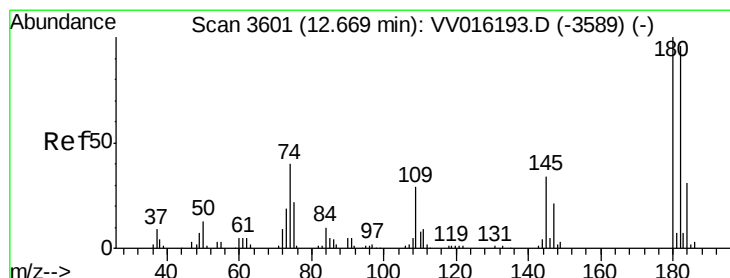
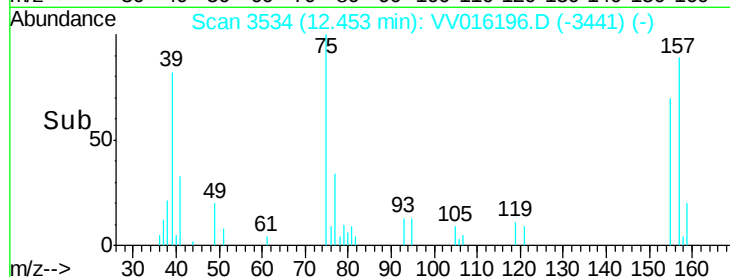
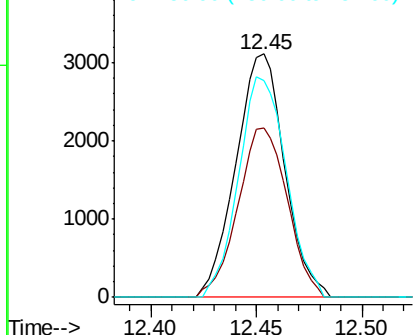
#67  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.461 ug/L  
 RT: 12.45 min Scan# 3534  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 75 Resp: 5008  
 Ion Ratio Lower Upper  
 75 100  
 155 69.8 56.2 84.4  
 157 89.3 71.9 107.9

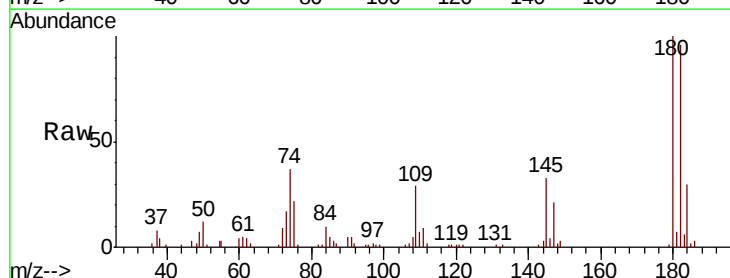


Abundance Ion 75.05 (74.75 to 75.75): VV016196.D (-3441) (-)  
 Ion 154.95 (154.65 to 155.65): VV016196.D (-3441) (-)  
 Ion 156.90 (156.60 to 157.60): VV016196.D (-3441) (-)

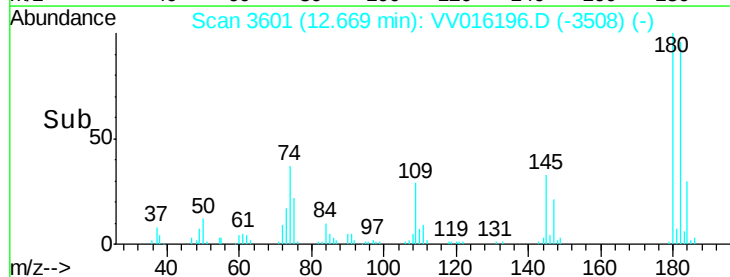
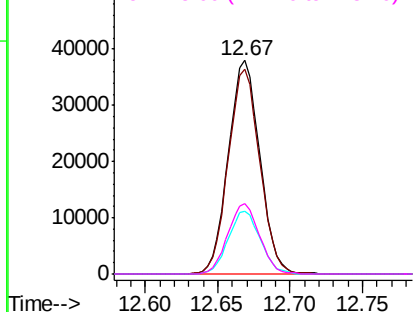


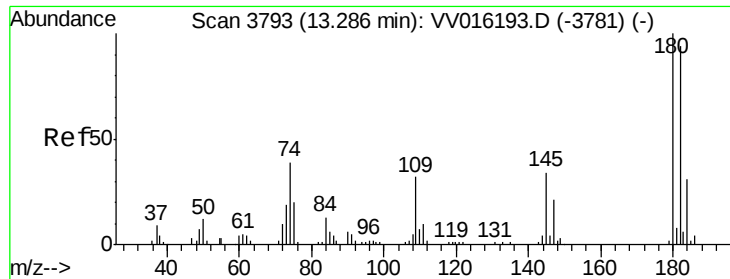
#68  
 1,3,5-Trichlorobenzene  
 Concen: 5.382 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

Tgt Ion: 180 Resp: 57206  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 77.1 115.7  
 184 29.9 25.0 37.4  
 145 33.1 26.3 39.5



Abundance Ion 180.00 (179.70 to 180.70): VV016196.D (-3508) (-)  
 Ion 182.00 (181.70 to 182.70): VV016196.D (-3508) (-)  
 Ion 184.00 (183.70 to 184.70): VV016196.D (-3508) (-)  
 Ion 145.00 (144.70 to 145.70): VV016196.D (-3508) (-)

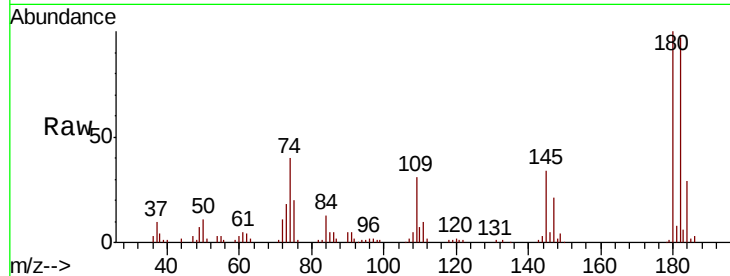




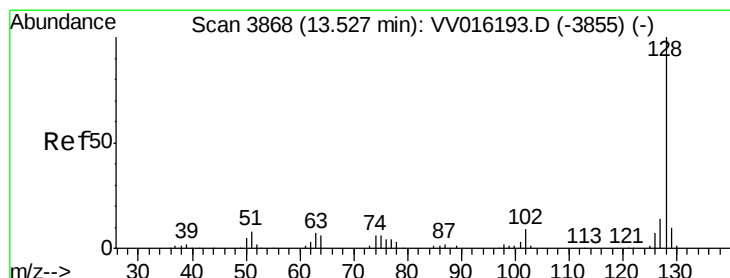
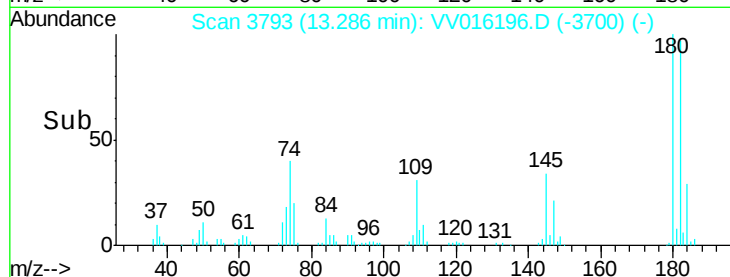
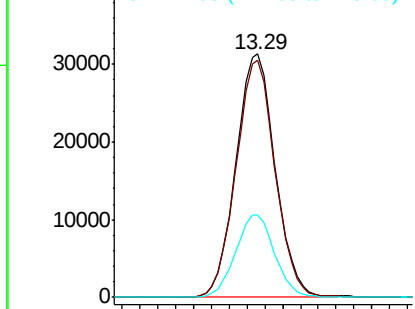
#69  
 1,2,4-trichlorobenzene  
 Concen: 5.165 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 75.0  | 112.4 |
| 145     | 33.5  | 27.1  | 40.7  |

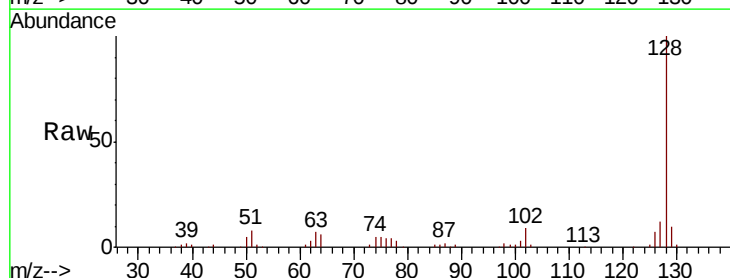


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

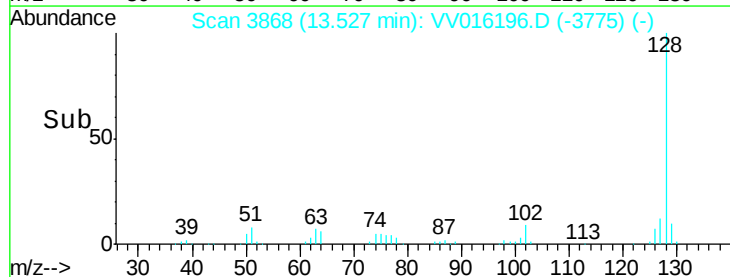
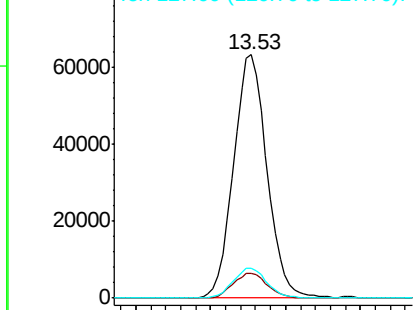


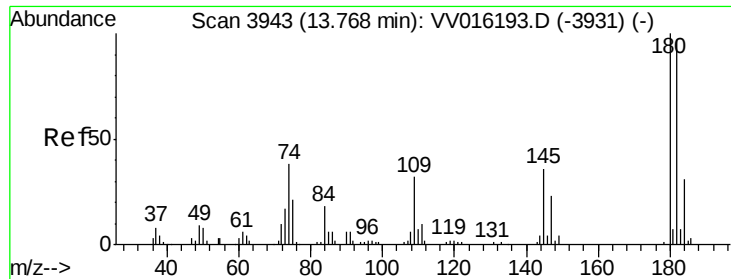
#70  
 Naphthalene  
 Concen: 4.824 ug/L  
 RT: 13.53 min Scan# 3868  
 Delta R.T. 0.00 min  
 Lab File: VV016196.D  
 Acq: 26 May 2020 17:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.5  | 8.6   | 13.0  |
| 127     | 12.6  | 10.6  | 15.8  |



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#71

1,2,3-Trichlorobenzene

Concen: 5.177 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

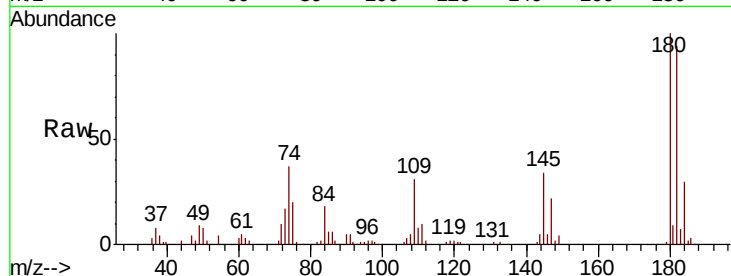
Lab File: VV016196.D

Acq: 26 May 2020 17:02

Instrument :

MSVOA\_V

ClientSampleId :



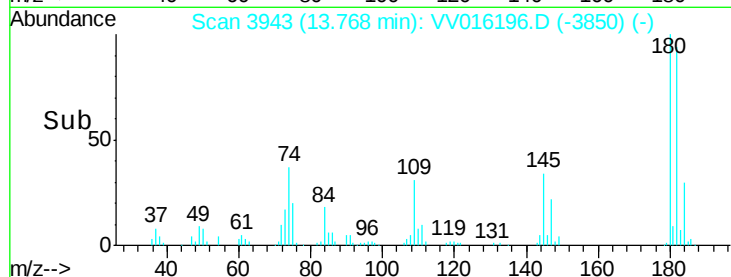
Tot Ion:180 Resp: 43578

Ion Ratio Lower Upper

180 100

182 94.6 77.1 115.7

145 34.9 28.6 42.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

