

Data File : VV015023.D  
Acq On : 18 Mar 2020 19:11  
Operator : SY/MD  
Sample : L1941-11DL50X  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DC2DL

Quant Time: Mar 19 04:10:18 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 19 04:08:09 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 347491   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 339490   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 169908   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 85175    | 52.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 104.92% |
| 7) Chloroethane-d5             | 1.58    | 69    | 65952    | 51.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.60% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 106967   | 38.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.10%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 110214   | 100.13   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.13% |
| 24) Chloroform-d               | 4.38    | 84    | 200555   | 48.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.50%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 126321   | 48.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.56%  |
| 32) Benzene-d6                 | 5.08    | 84    | 411250   | 51.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.10% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 121109   | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.76% |
| 41) Toluene-d8                 | 7.34    | 98    | 401045   | 49.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.90%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 59053    | 46.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.74%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 112382   | 103.47   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.47% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 173152   | 48.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 174085   | 51.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.08% |

#### Target Compounds

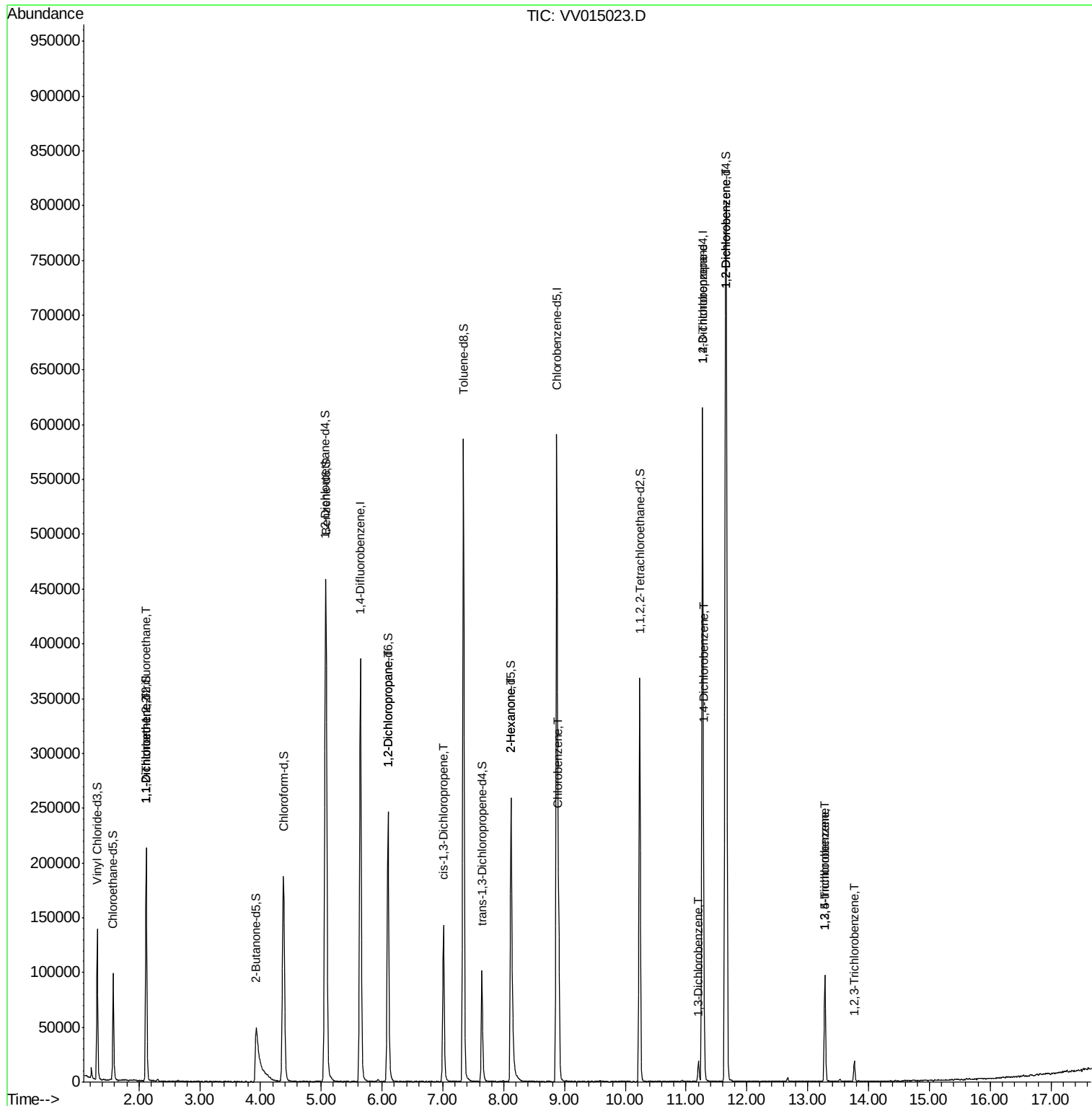
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 1440   | 0.964  | ug/L # | 17     |
| 12) 1,1-Dichloroethene         | 2.12  | 96  | 1039   | 0.735  | ug/L # | 1      |
| 37) 1,2-Dichloropropane        | 6.10  | 63  | 13322  | 6.629  | ug/L # | 84     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75  | 3413   | 1.014  | ug/L   | 86     |
| 48) 2-Hexanone                 | 8.12  | 43  | 12167  | 5.851  | ug/L # | 71     |
| 51) Chlorobenzene              | 8.90  | 112 | 94743  | 14.343 | ug/L   | 97     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75  | 23389  | 8.280  | ug/L   | 88     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146 | 7851   | 1.535  | ug/L   | 91     |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146 | 28761  | 5.403  | ug/L   | 97     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146 | 269404 | 49.594 | ug/L   | 98     |
| 67) 1,3,5-Trichlorobenzene     | 13.28 | 180 | 32742  | 8.092  | ug/L   | 97     |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180 | 32742  | 8.786  | ug/L   | 98     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180 | 6585   | 1.799  | ug/L   | 97     |

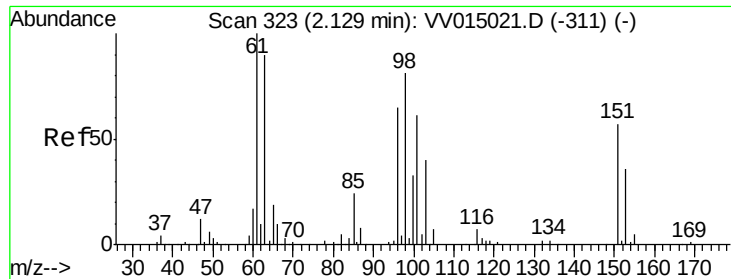
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DC2DL

Quant Time: Mar 19 04:10:18 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 19 04:08:09 2020  
Response via : Initial Calibration





#10

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

Concen: 0.964 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

Instrument :

MSVOA\_V

ClientSampleId :

C0DC2DL

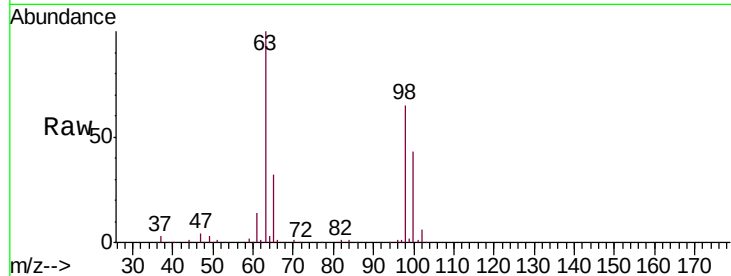
Tgt Ion:101 Resp: 1440

Ion Ratio Lower Upper

101 100

85 0.0 33.2 49.8#

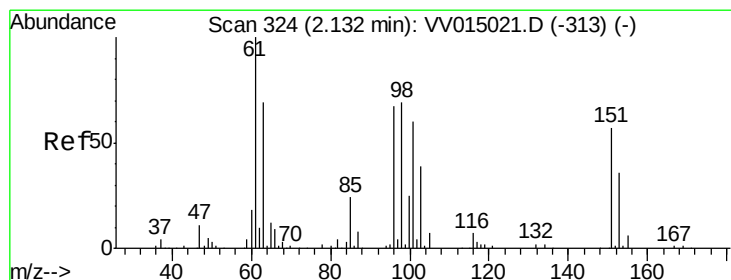
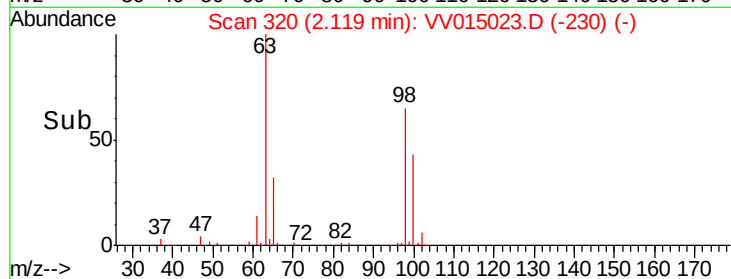
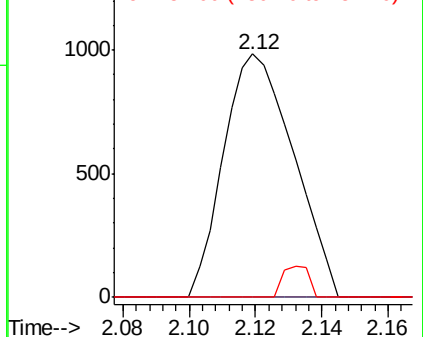
151 4.7 72.6 109.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.735 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

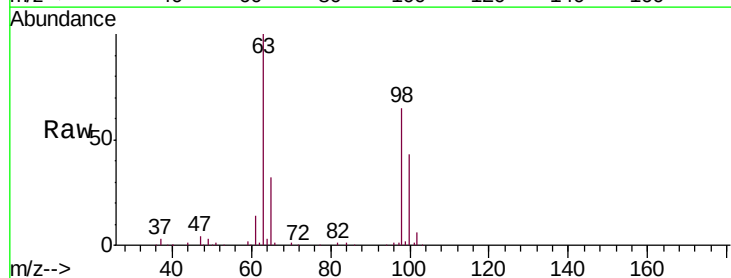
Tgt Ion: 96 Resp: 1039

Ion Ratio Lower Upper

96 100

61 1579.3 105.6 196.2#

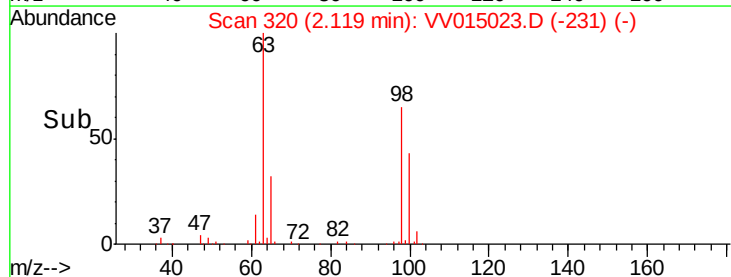
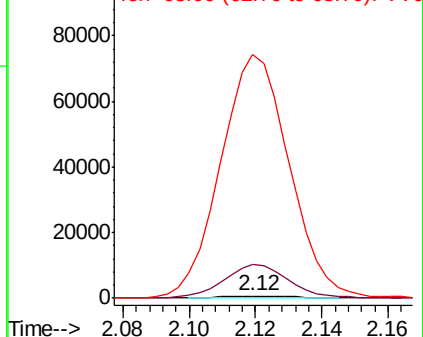
63 11548.4 75.9 140.9#

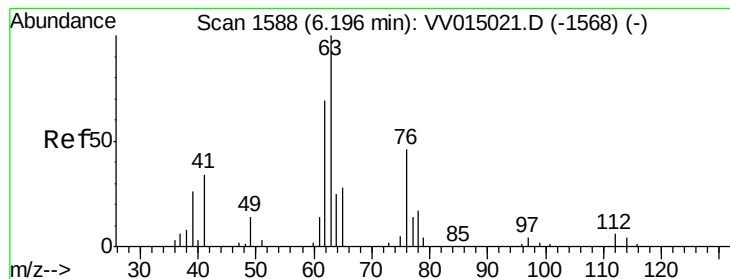


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#37

1,2-Dichloropropane

Concen: 6.629 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

Instrument :

MSVOA\_V

ClientSampleId :

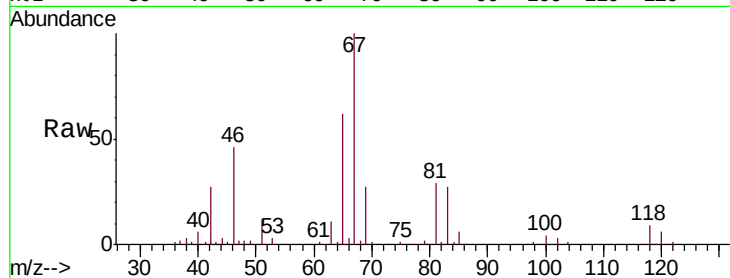
C0DC2DL

Tgt Ion: 63 Resp: 13322

Ion Ratio Lower Upper

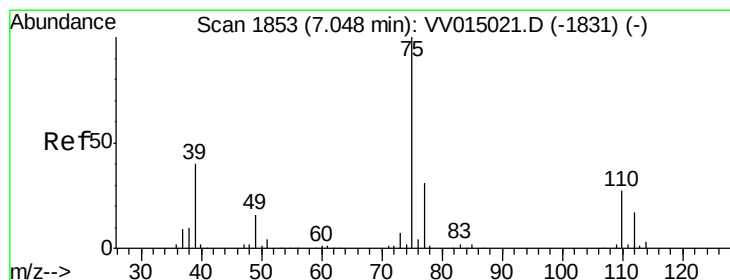
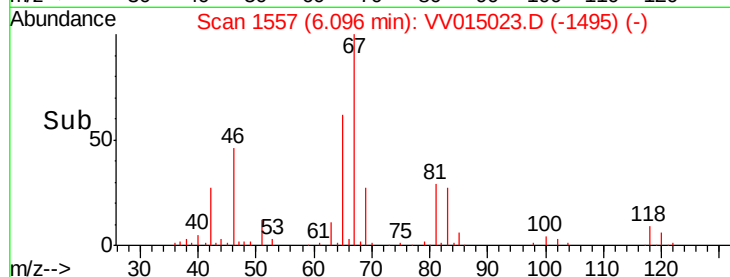
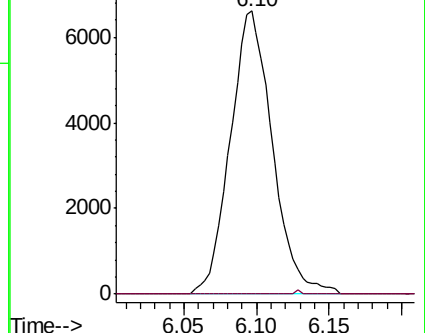
63 100

112 0.0 4.4 6.6#



Abundance Ion 63.00 (62.70 to 63.70): VV015021.D (-1568) (-)

Ion 112.00 (111.70 to 112.70): VV015021.D (-1568) (-)



#39

cis-1,3-Dichloropropene

Concen: 1.014 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VV015023.D

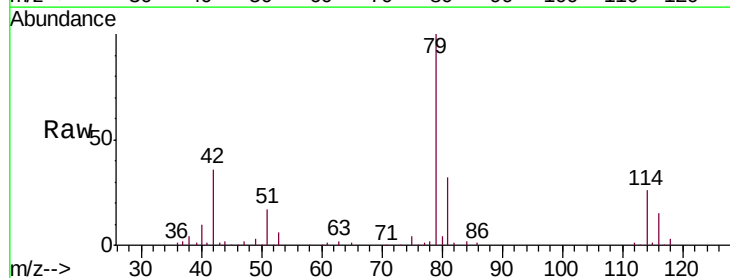
Acq: 18 Mar 2020 19:11

Tgt Ion: 75 Resp: 3413

Ion Ratio Lower Upper

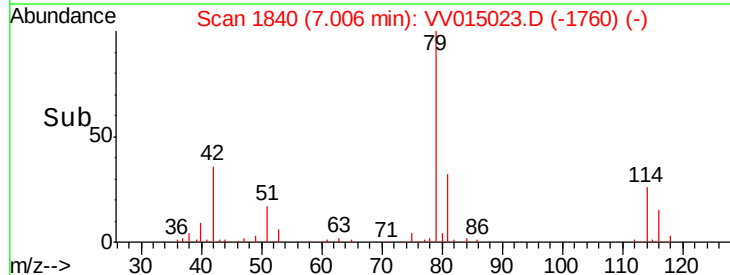
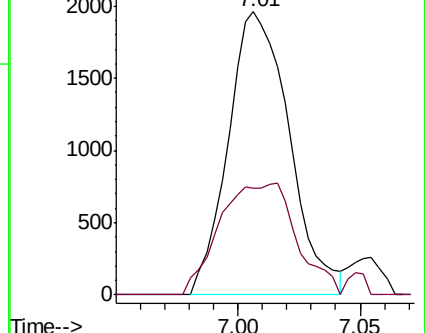
75 100

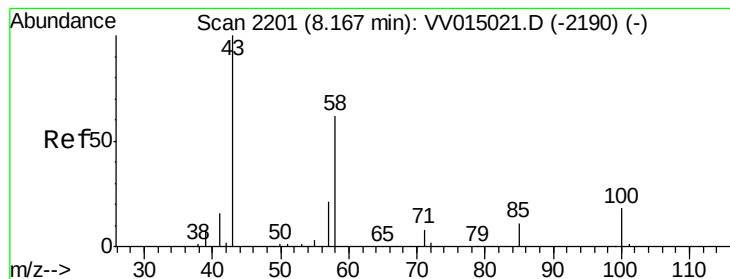
77 37.8 21.1 39.3



Abundance Ion 75.00 (74.70 to 75.70): VV015021.D (-1831) (-)

Ion 77.00 (76.70 to 77.70): VV015021.D (-1831) (-)





#48

2-Hexanone

Concen: 5.851 ug/L

RT: 8.12 min Scan# 2187

Delta R.T. -0.05 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

Instrument :

MSVOA\_V

ClientSampleId :

C0DC2DL

Tgt Ion: 43 Resp: 12167

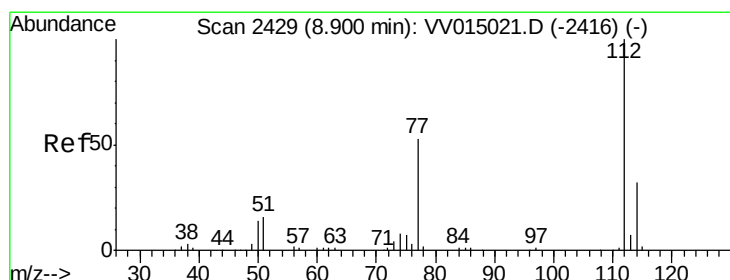
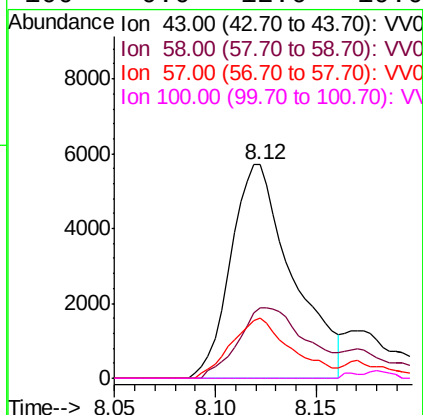
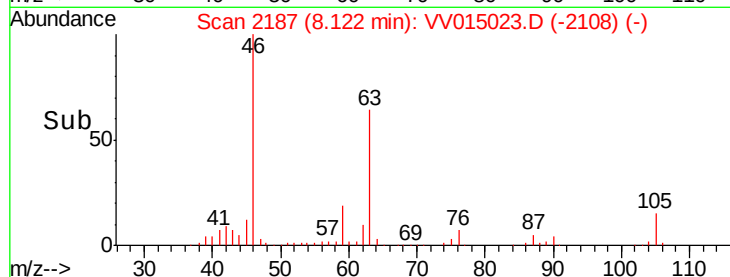
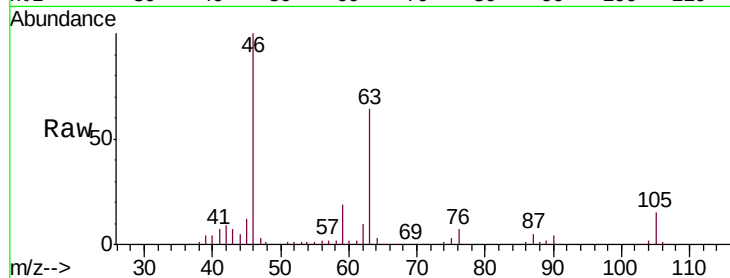
Ion Ratio Lower Upper

43 100

58 36.7 48.2 72.2#

57 27.7 15.8 23.6#

100 0.0 12.6 19.0#



#51

Chlorobenzene

Concen: 14.343 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

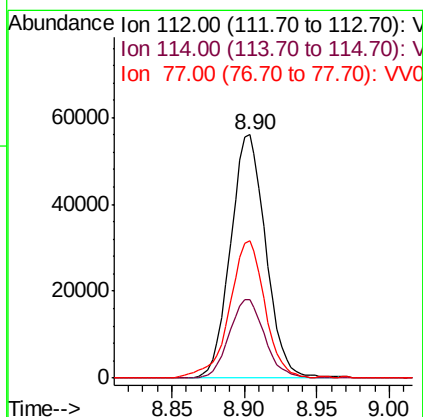
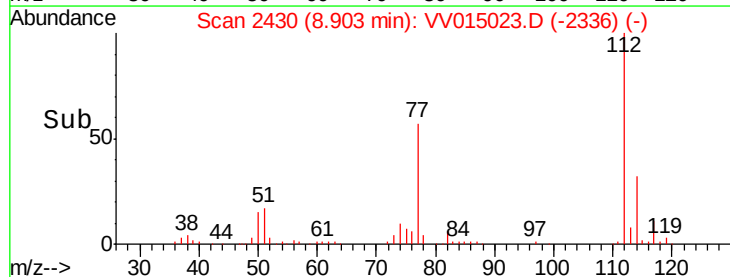
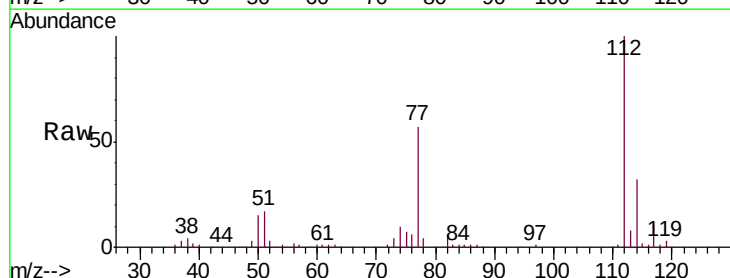
Tgt Ion: 112 Resp: 94743

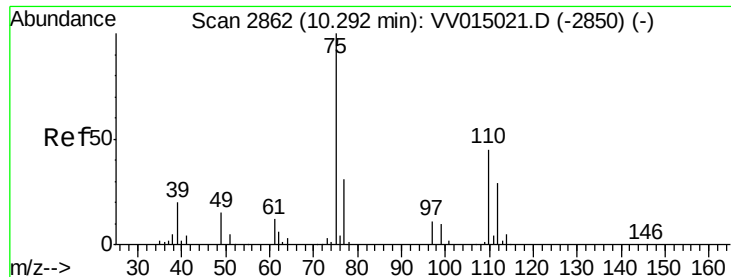
Ion Ratio Lower Upper

112 100

114 32.4 22.4 41.6

77 56.6 42.9 64.3





#59

1,2,3-Trichloropropane

Concen: 8.280 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

Instrument :

MSVOA\_V

ClientSampleId :

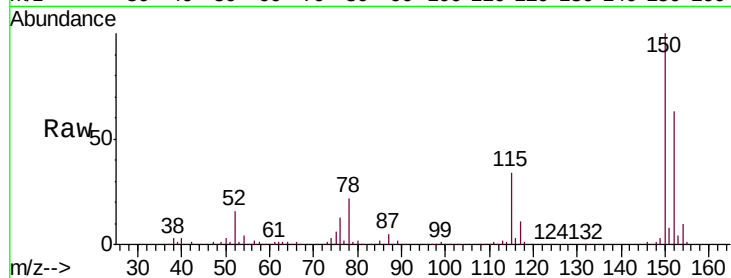
C0DC2DL

Tgt Ion: 75 Resp: 23389

Ion Ratio Lower Upper

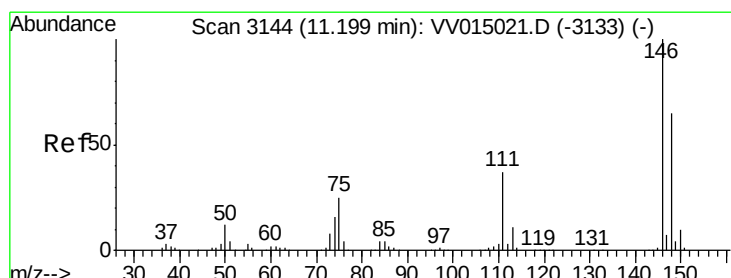
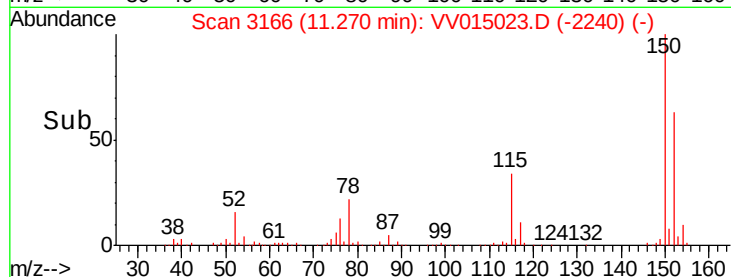
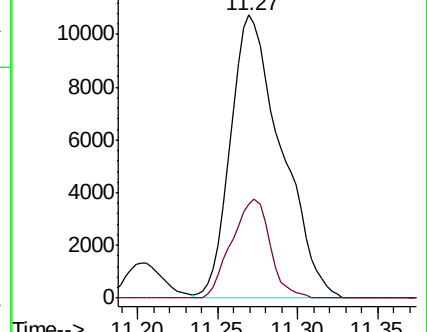
75 100

77 26.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV015023.D (-2240) (-)

Ion 77.00 (76.70 to 77.70): VV015023.D (-2240) (-)



#62

1,3-Dichlorobenzene

Concen: 1.535 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV015023.D

Acq: 18 Mar 2020 19:11

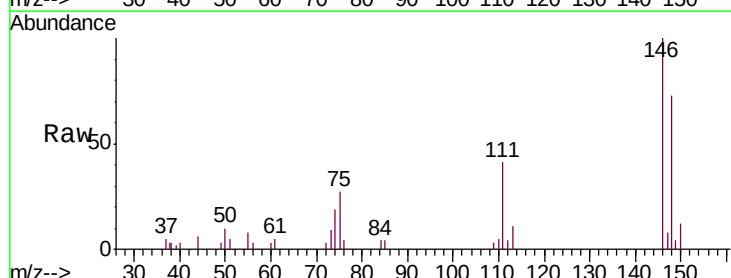
Tgt Ion: 146 Resp: 7851

Ion Ratio Lower Upper

146 100

111 41.2 25.7 47.7

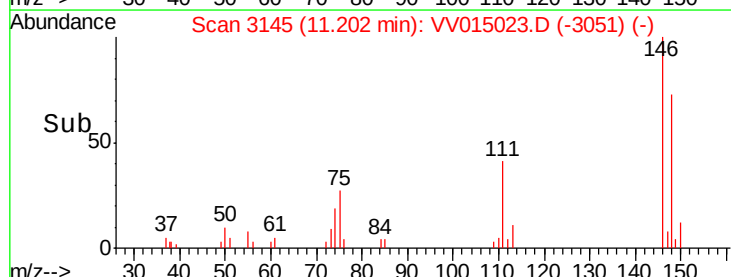
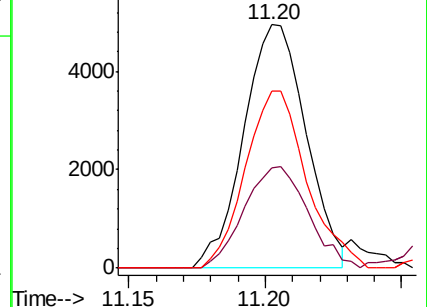
148 72.5 45.4 84.4

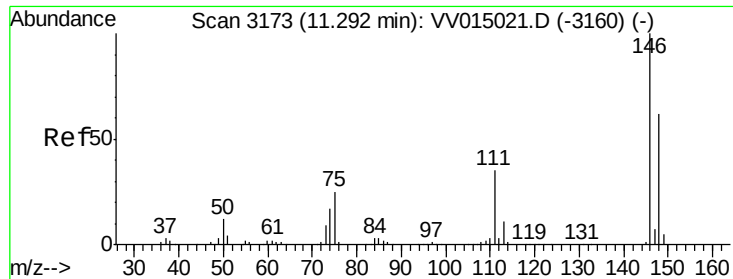


Abundance Ion 146.00 (145.70 to 146.70): VV015023.D (-3051) (-)

Ion 111.00 (110.70 to 111.70): VV015023.D (-3051) (-)

Ion 148.00 (147.70 to 148.70): VV015023.D (-3051) (-)

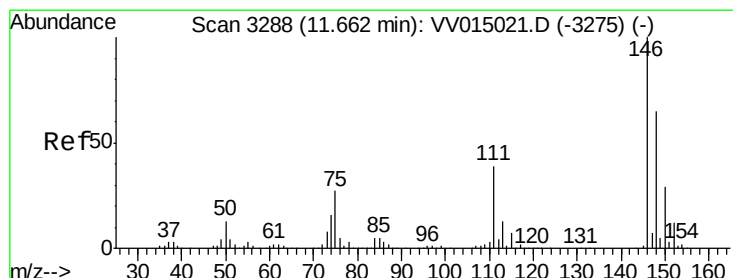
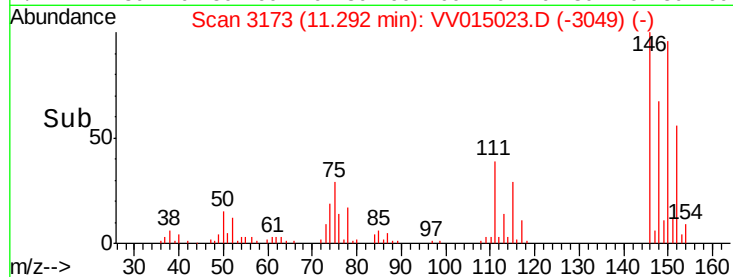
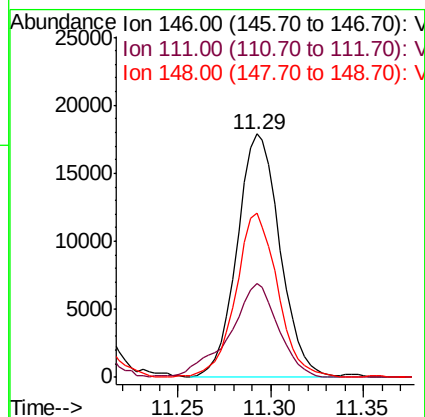
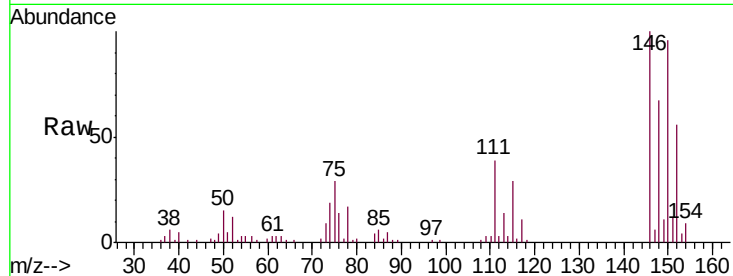




#63  
 1,4-Dichlorobenzene  
 Concen: 5.403 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. -0.00 min  
 Lab File: VV015023.D  
 Acq: 18 Mar 2020 19:11

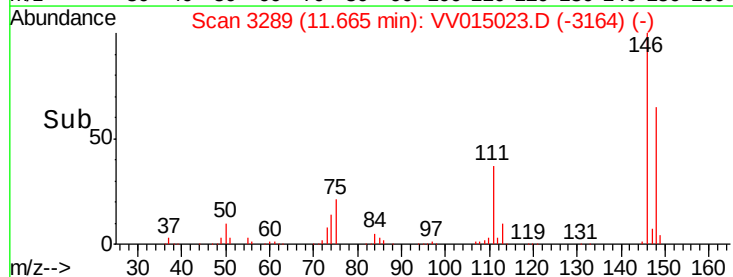
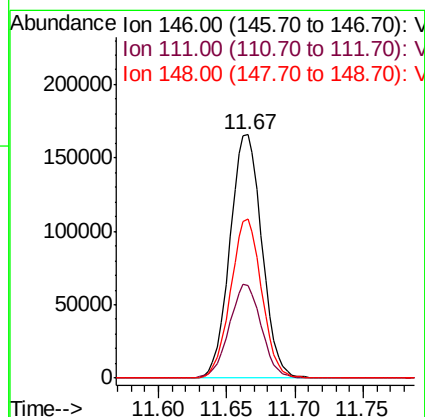
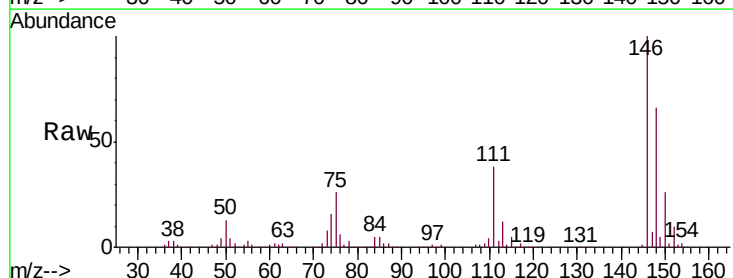
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DC2DL

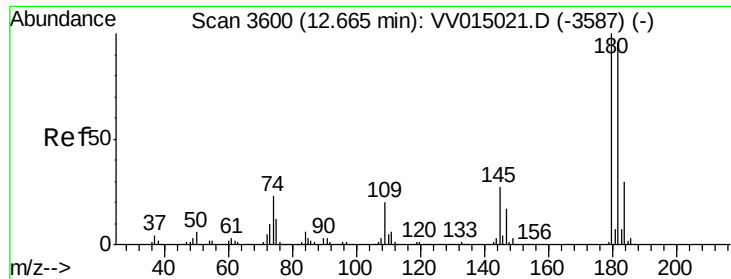
Tgt Ion:146 Resp: 28761  
 Ion Ratio Lower Upper  
 146 100  
 111 38.7 25.8 48.0  
 148 67.2 45.7 84.9



#65  
 1,2-Dichlorobenzene  
 Concen: 49.594 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV015023.D  
 Acq: 18 Mar 2020 19:11

Tgt Ion:146 Resp: 269404  
 Ion Ratio Lower Upper  
 146 100  
 111 38.1 31.5 47.3  
 148 65.5 51.7 77.5

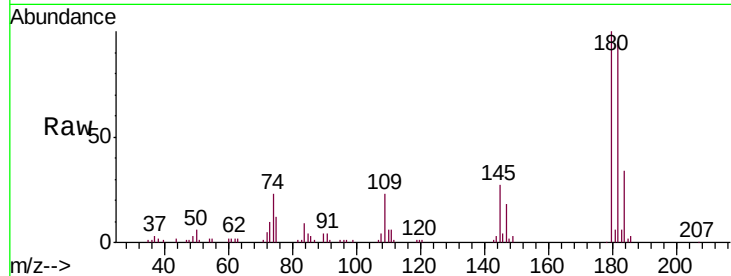




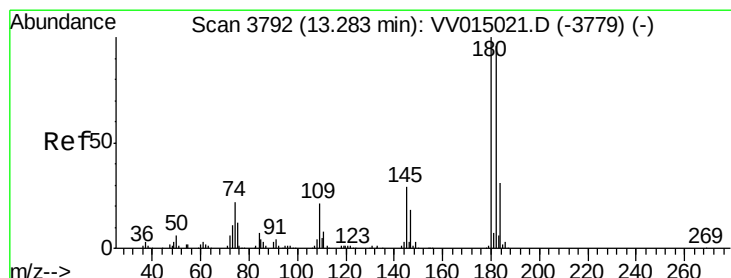
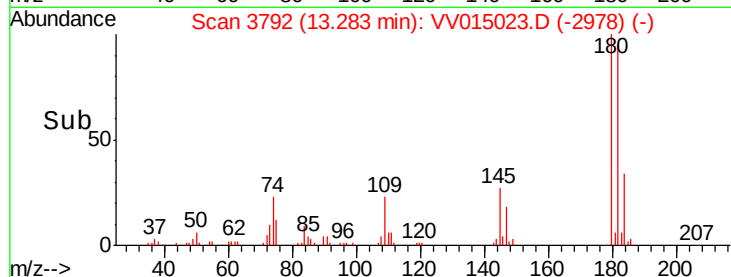
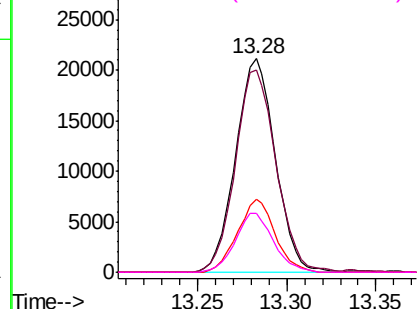
#67  
 1,3,5-Trichlorobenzene  
 Concen: 8.092 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.62 min  
 Lab File: VV015023.D  
 Acq: 18 Mar 2020 19:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DC2DL

Tgt Ion:180 Resp: 32742  
 Ion Ratio Lower Upper  
 180 100  
 182 97.1 75.2 112.8  
 184 32.4 23.9 35.9  
 145 26.4 22.0 33.0

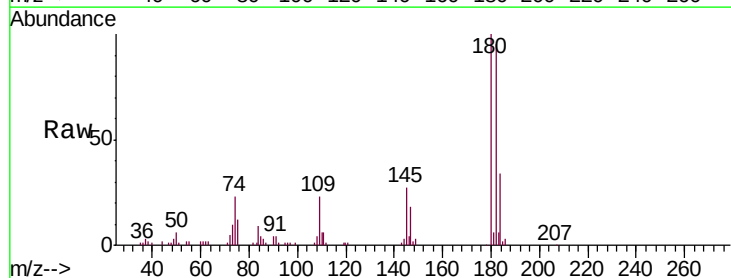


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

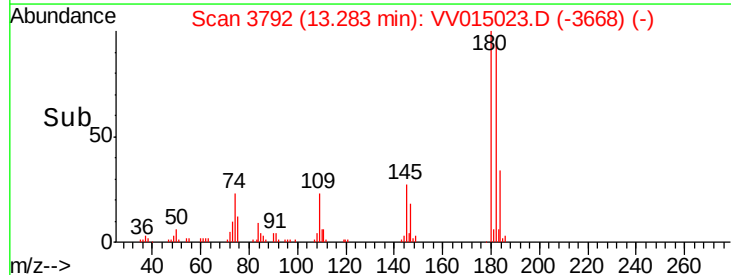
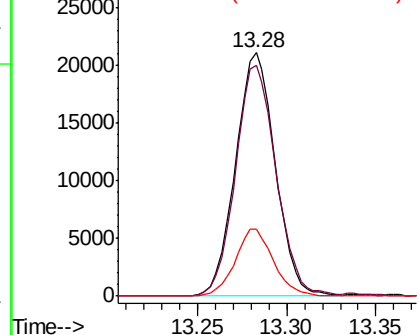


#68  
 1,2,4-trichlorobenzene  
 Concen: 8.786 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. -0.00 min  
 Lab File: VV015023.D  
 Acq: 18 Mar 2020 19:11

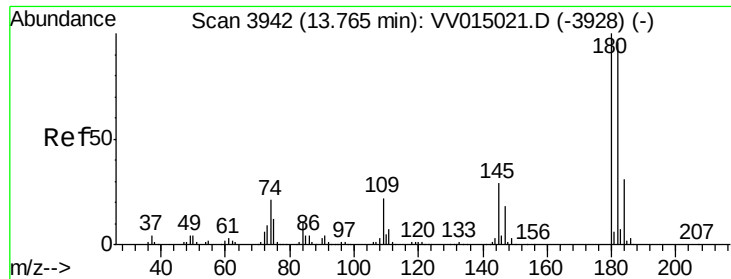
Tgt Ion:180 Resp: 32742  
 Ion Ratio Lower Upper  
 180 100  
 182 97.1 76.3 114.5  
 145 26.4 22.2 33.4



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V







#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.799 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015023.D  
 Acq: 18 Mar 2020 19:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DC2DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.8  | 75.5  | 113.3 |
| 145     | 30.0  | 23.5  | 35.3  |

