

Data File : VV015161.D  
Acq On : 26 Mar 2020 02:10  
Operator : SY/MD  
Sample : L1968-15-100X  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DL5

Quant Time: Mar 26 04:25:57 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032520WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 26 02:00:02 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 603270   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 593293   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 268575   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 210833   | 41.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 83.60% |
| 7) Chloroethane-d5             | 1.58    | 69    | 198178   | 43.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.74% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 336850   | 33.90    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.80% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 295916   | 89.40    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.40% |
| 24) Chloroform-d               | 4.38    | 84    | 365160   | 43.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.28% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 246114   | 45.33    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.66% |
| 32) Benzene-d6                 | 5.08    | 84    | 742678   | 43.41    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.82% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 233254   | 42.96    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 85.92% |
| 41) Toluene-d8                 | 7.34    | 98    | 709877   | 43.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.84% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 111460   | 37.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.96% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 235059   | 86.45    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.45% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 340120   | 42.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.10% |
| 64) 1,2-Dichlorobenzene-d4     | 11.42   | 152   | 114      | 0.02     | ug/L | -0.22  |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 0.04%# |

#### Target Compounds

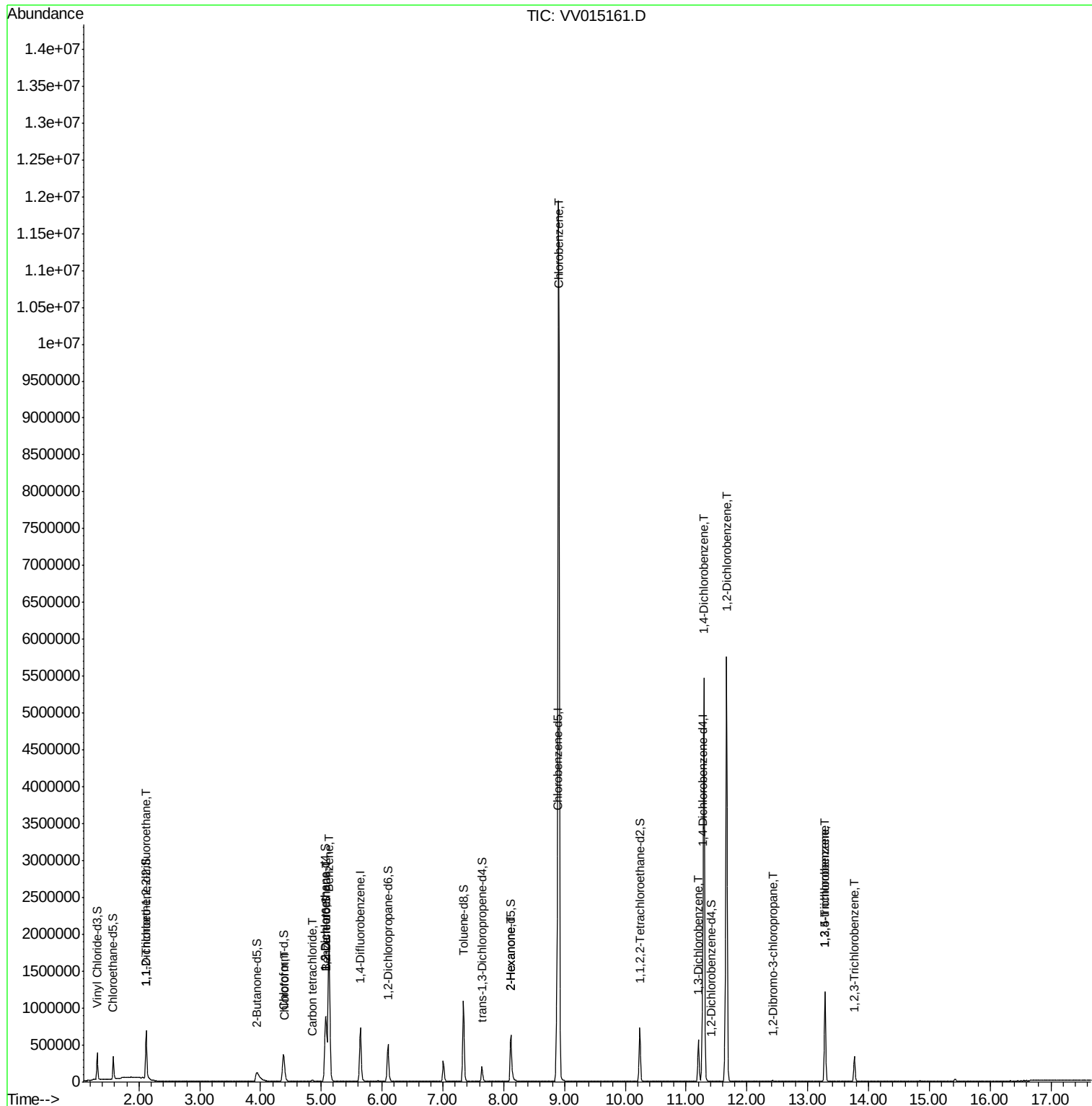
|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 3581    | 0.850   | ug/L # | 26     |
| 25) Chloroform                 | 4.41  | 83  | 32282   | 4.714   | ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.08  | 62  | 3859    | 0.727   | ug/L   | 99     |
| 31) Carbon tetrachloride       | 4.86  | 117 | 10521   | 1.894   | ug/L   | 100    |
| 33) Benzene                    | 5.13  | 78  | 1957573 | 128.216 | ug/L   | 100    |
| 48) 2-Hexanone                 | 8.12  | 43  | 28602   | 6.424   | ug/L # | 82     |
| 51) Chlorobenzene              | 8.90  | 112 | 6064555 | 550.975 | ug/L   | 97     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146 | 206084  | 26.198  | ug/L   | 97     |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146 | 1949152 | 243.219 | ug/L   | 98     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146 | 2020538 | 254.590 | ug/L   | 99     |
| 66) 1,2-Dibromo-3-chloropropan | 12.42 | 75  | 2353    | 1.365   | ug/L # | 3      |
| 67) 1,3,5-Trichlorobenzene     | 13.29 | 180 | 314012  | 59.237  | ug/L   | 98     |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180 | 314012  | 62.915  | ug/L   | 98     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180 | 89361   | 18.017  | ug/L   | 99     |

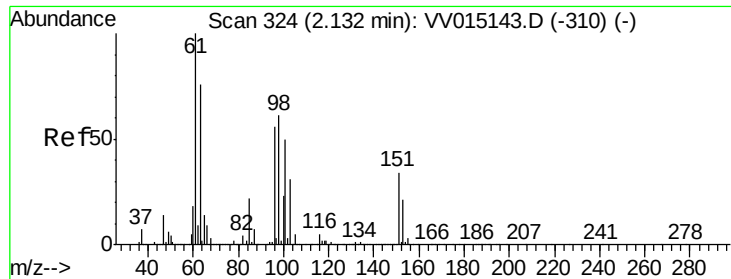
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 26 04:25:57 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032520WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 26 02:00:02 2020  
Response via : Initial Calibration





#10

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

Concen: 0.850 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV015161.D

Acq: 26 Mar 2020 02:10

Instrument :

MSVOA\_V

ClientSampleId :

C0DL5

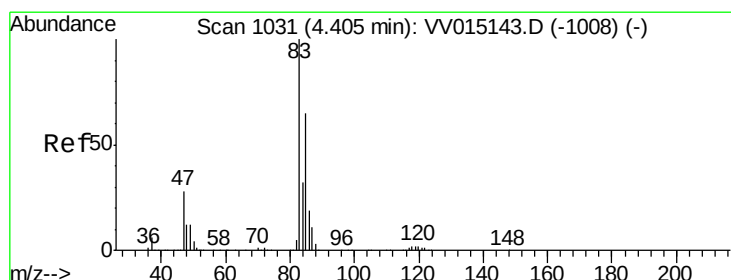
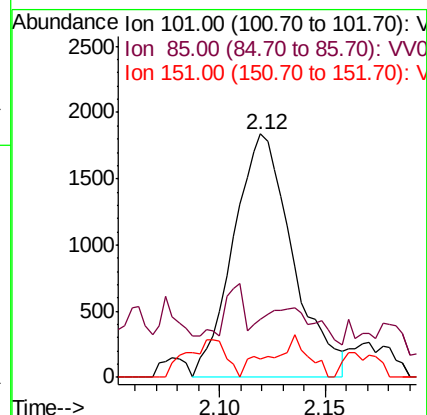
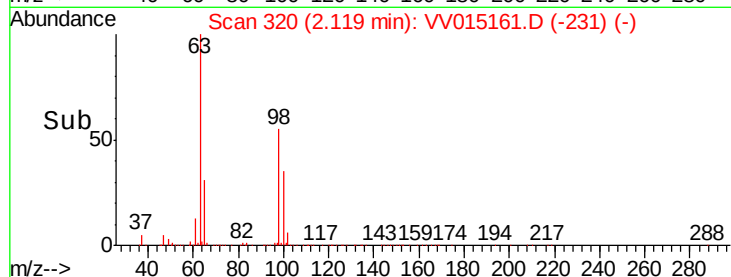
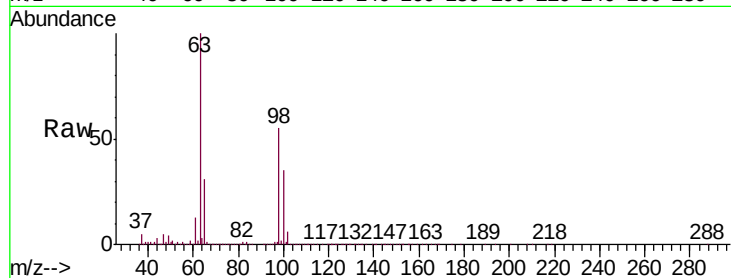
Tgt Ion:101 Resp: 3581

Ion Ratio Lower Upper

101 100

85 5.8 36.0 54.0#

151 2.3 56.2 84.2#



#25

Chloroform

Concen: 4.714 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV015161.D

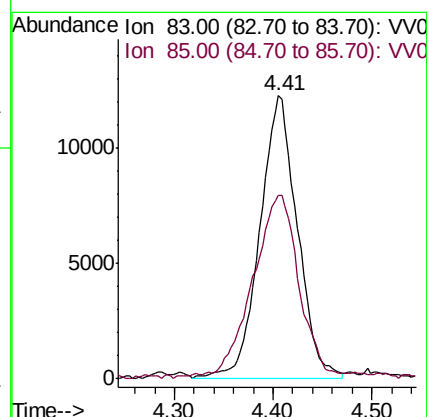
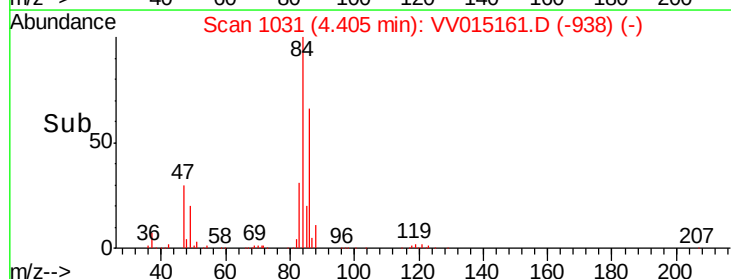
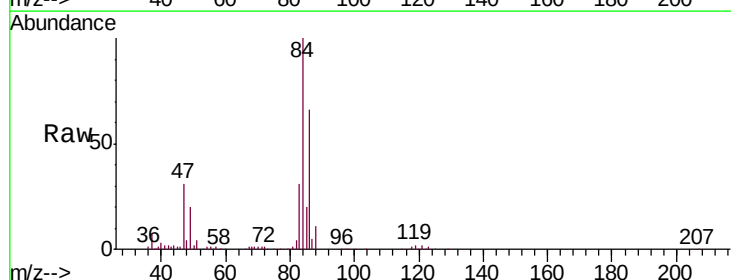
Acq: 26 Mar 2020 02:10

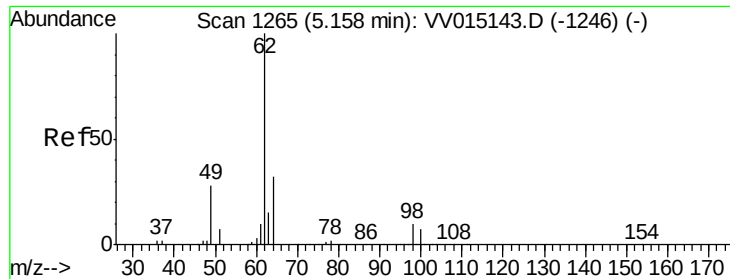
Tgt Ion: 83 Resp: 32282

Ion Ratio Lower Upper

83 100

85 65.0 44.8 83.2

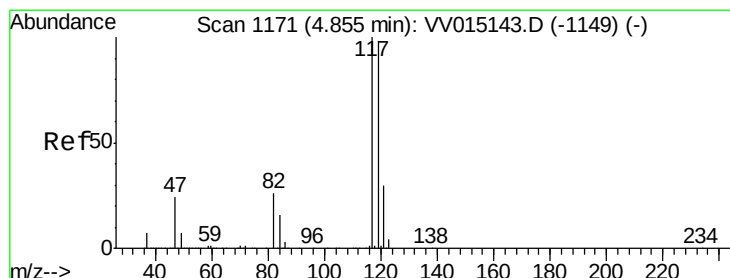
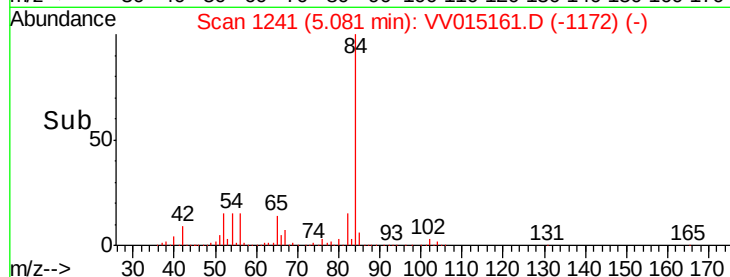
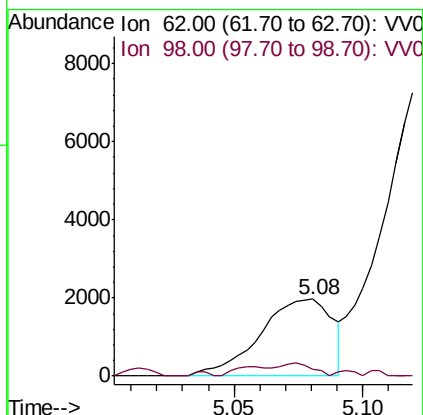
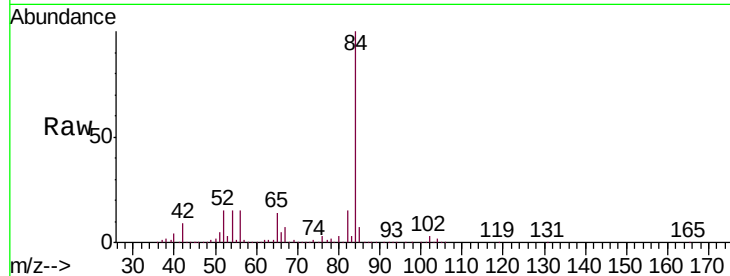




#27  
 1,2-Dichloroethane  
 Concen: 0.727 ug/L  
 RT: 5.08 min Scan# 1241  
 Delta R.T. -0.08 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

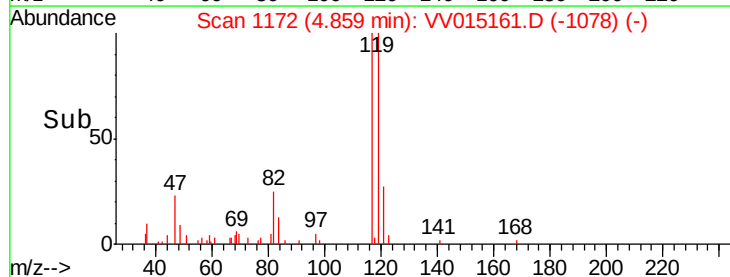
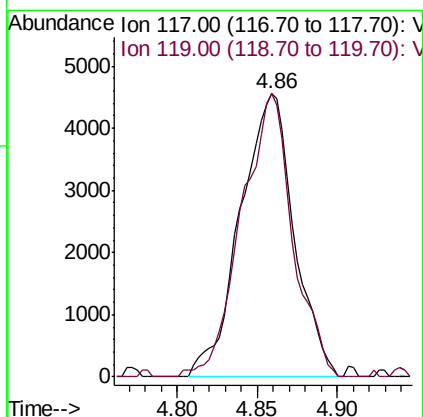
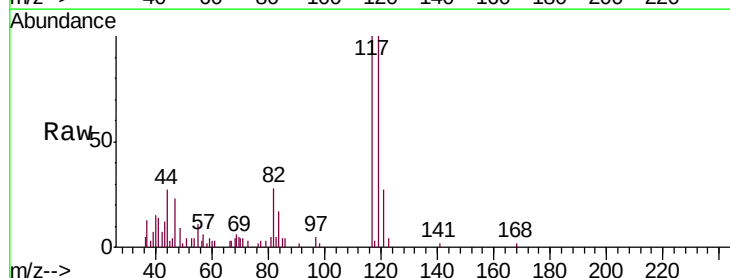
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DL5

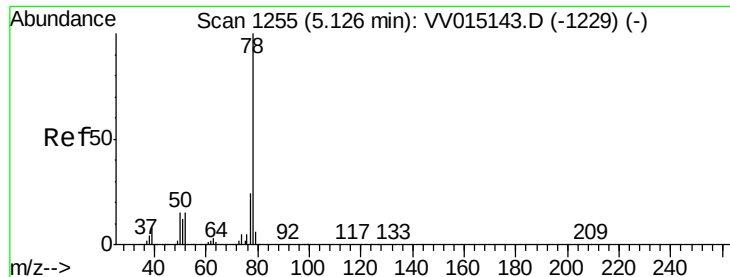
Tgt Ion: 62 Resp: 3859  
 Ion Ratio Lower Upper  
 62 100  
 98 9.2 7.5 11.3



#31  
 Carbon tetrachloride  
 Concen: 1.894 ug/L  
 RT: 4.86 min Scan# 1172  
 Delta R.T. 0.00 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

Tgt Ion: 117 Resp: 10521  
 Ion Ratio Lower Upper  
 117 100  
 119 95.0 76.2 114.4





#33

Benzene

Concen: 128.216 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV015161.D

Acq: 26 Mar 2020 02:10

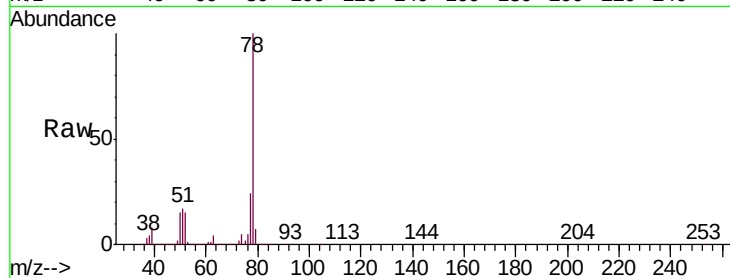
Instrument :

MSVOA\_V

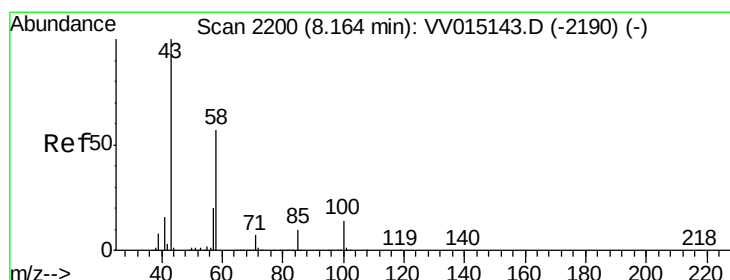
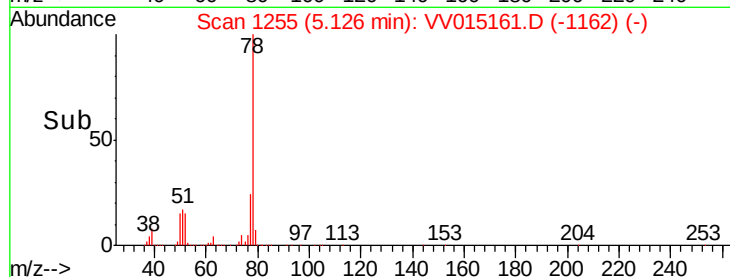
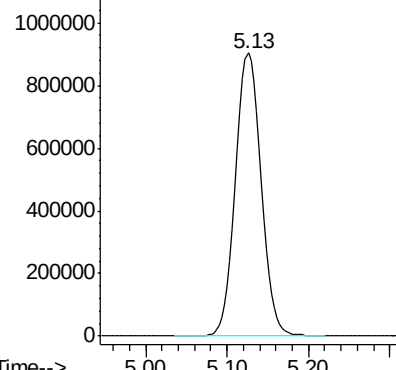
ClientSampleId :

C0DL5

Tgt Ion: 78 Resp: 1957573



Abundance Ion 78.00 (77.70 to 78.70): VV0



#48

2-Hexanone

Concen: 6.424 ug/L

RT: 8.12 min Scan# 2185

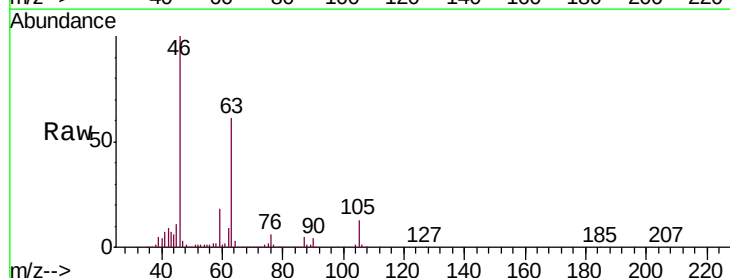
Delta R.T. -0.05 min

Lab File: VV015161.D

Acq: 26 Mar 2020 02:10

Tgt Ion: 43 Resp: 28602

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 44.2  | 47.0  | 70.6# |
| 57  | 22.6  | 16.5  | 24.7  |
| 100 | 0.4   | 10.9  | 16.3# |

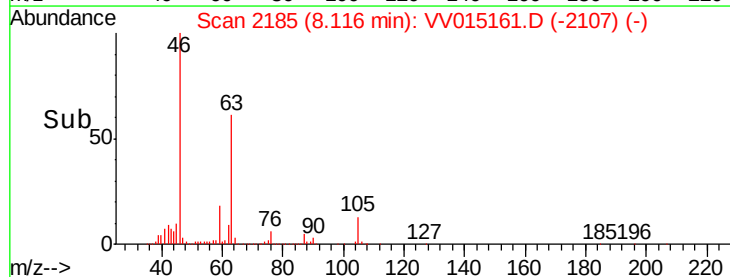
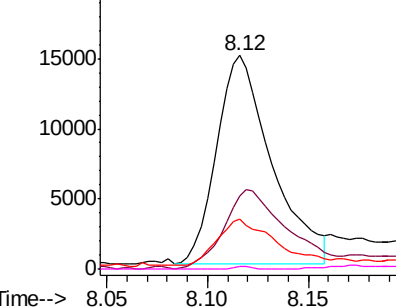


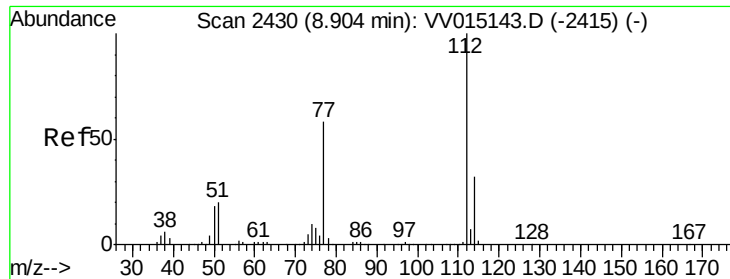
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#51

Chlorobenzene

Concen: 550.975 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015161.D

Acq: 26 Mar 2020 02:10

Instrument :

MSVOA\_V

ClientSampleId :

C0DL5

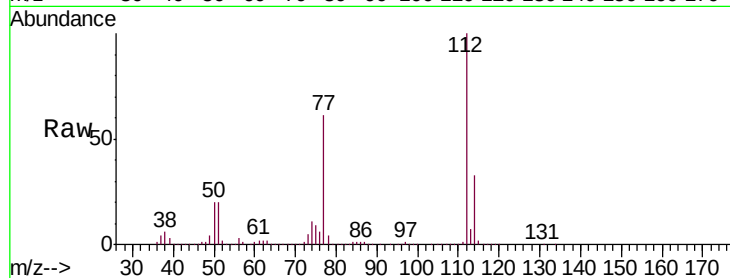
Tgt Ion:112 Resp: 6064555

Ion Ratio Lower Upper

112 100

114 32.7 22.0 40.8

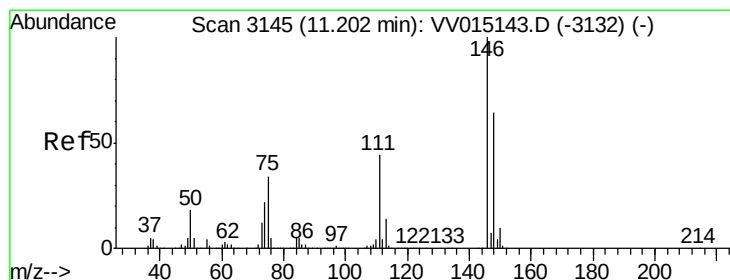
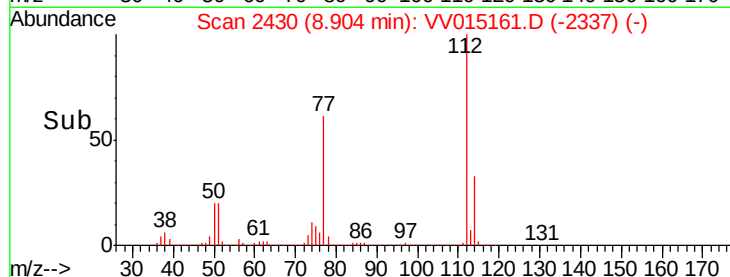
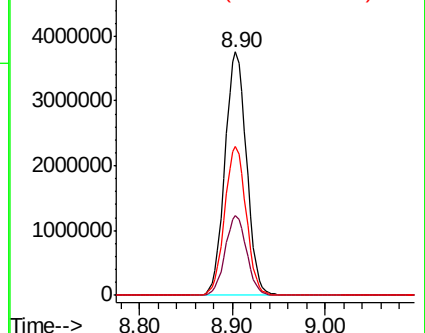
77 61.1 47.2 70.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 26.198 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV015161.D

Acq: 26 Mar 2020 02:10

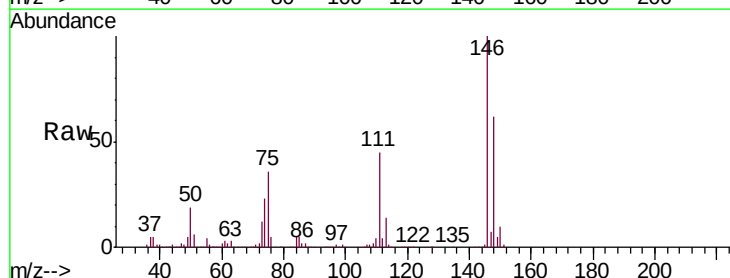
Tgt Ion:146 Resp: 206084

Ion Ratio Lower Upper

146 100

111 44.8 29.3 54.5

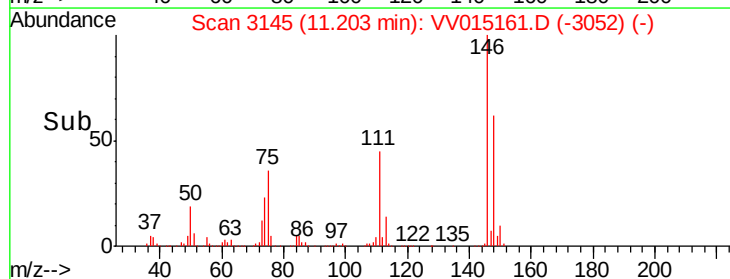
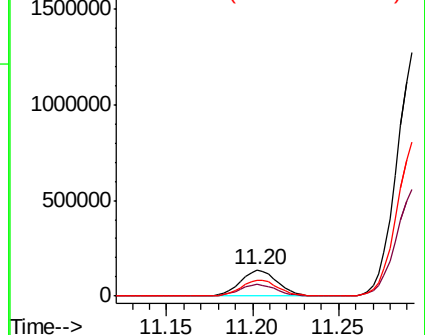
148 61.9 44.7 82.9

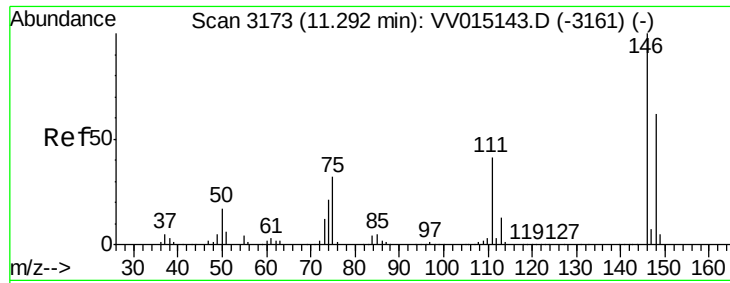


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

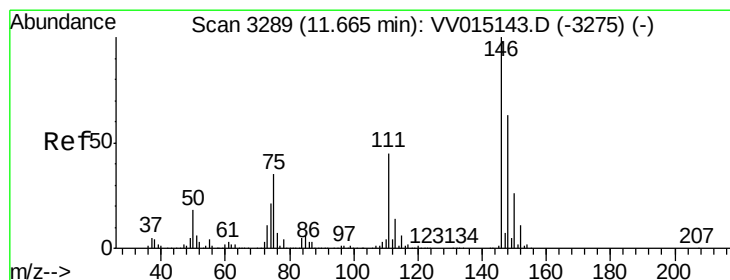
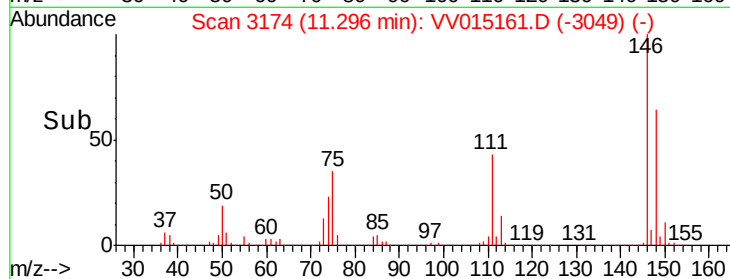
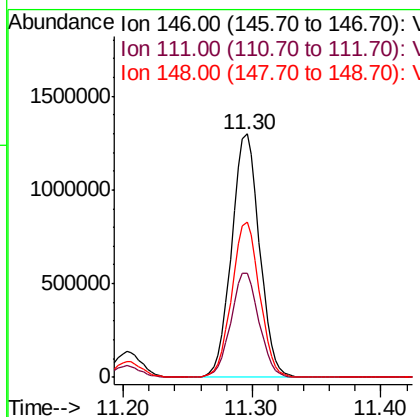
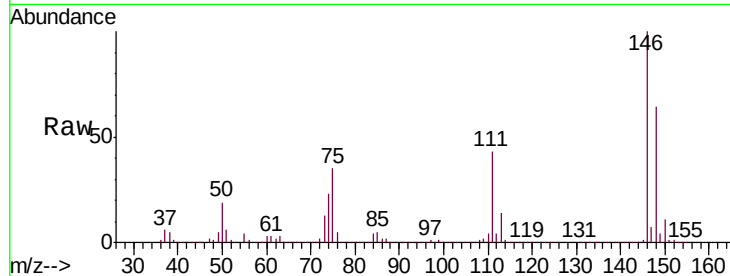




#63  
 1,4-Dichlorobenzene  
 Concen: 243.219 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

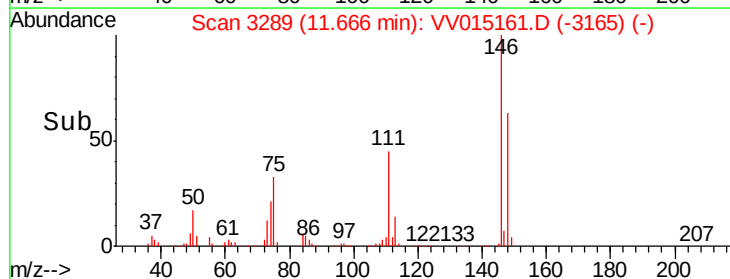
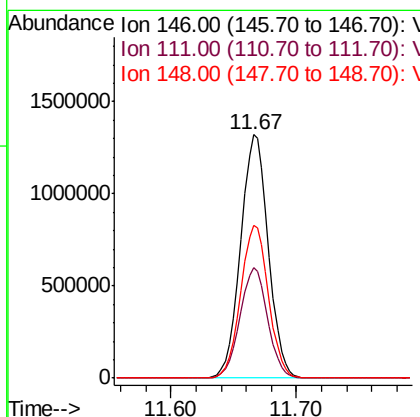
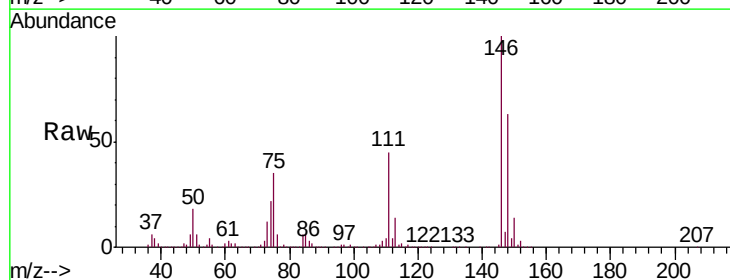
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DL5

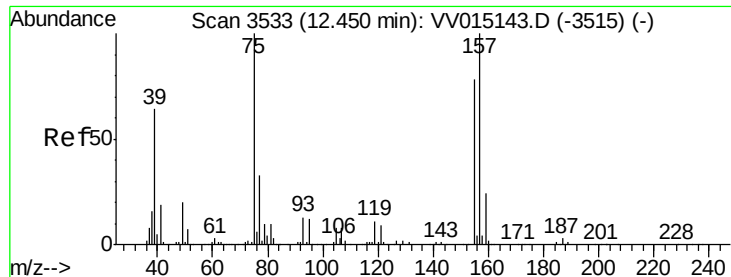
Tgt Ion:146 Resp: 1949152  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 28.4 52.8  
 148 63.7 44.0 81.8



#65  
 1,2-Dichlorobenzene  
 Concen: 254.590 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

Tgt Ion:146 Resp: 2020538  
 Ion Ratio Lower Upper  
 146 100  
 111 45.4 35.4 53.2  
 148 62.8 49.7 74.5

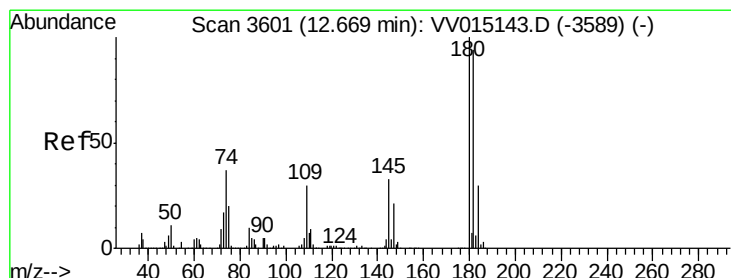
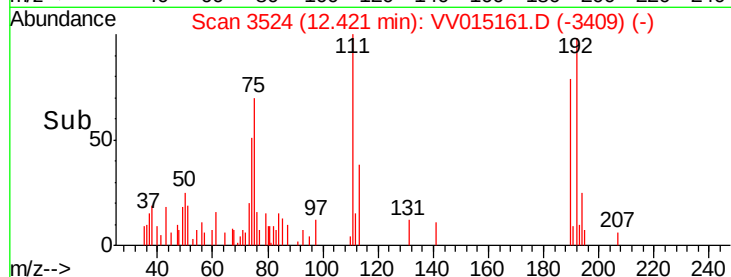
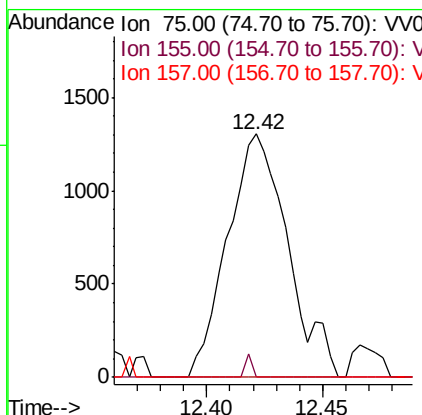
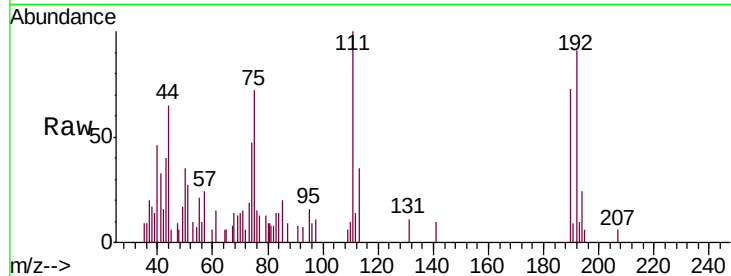




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 1.365 ug/L  
 RT: 12.42 min Scan# 3524  
 Delta R.T. -0.03 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

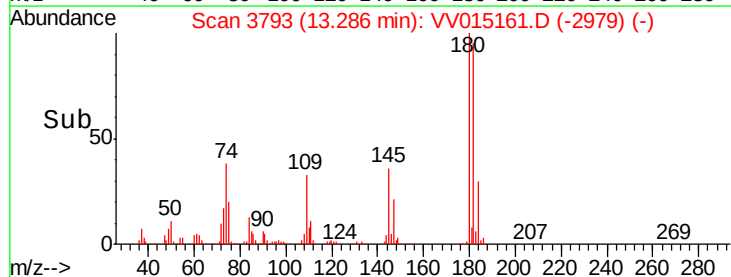
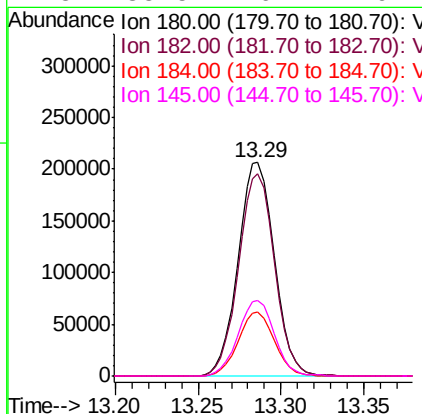
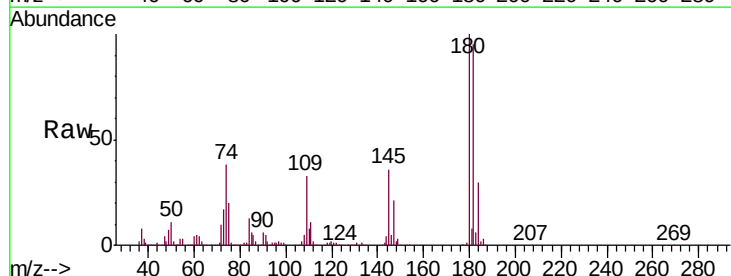
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DL5

Tgt Ion: 75 Resp: 2353  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 66.2 99.4#  
 157 0.0 81.1 121.7#

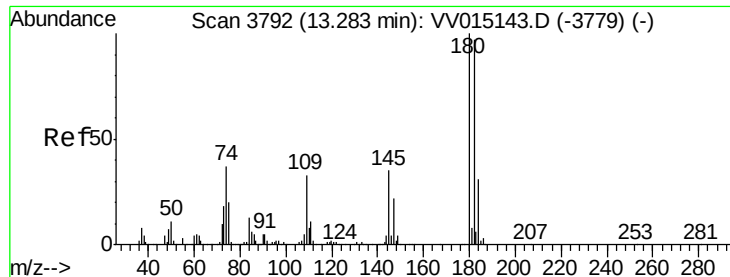


#67  
 1,3,5-Trichlorobenzene  
 Concen: 59.237 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.62 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

Tgt Ion: 180 Resp: 314012  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 76.1 114.1  
 184 29.7 24.4 36.6  
 145 35.5 26.7 40.1



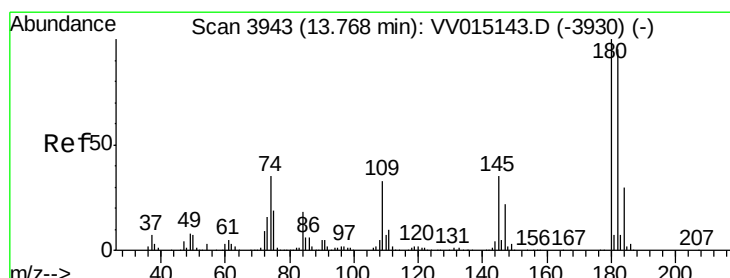
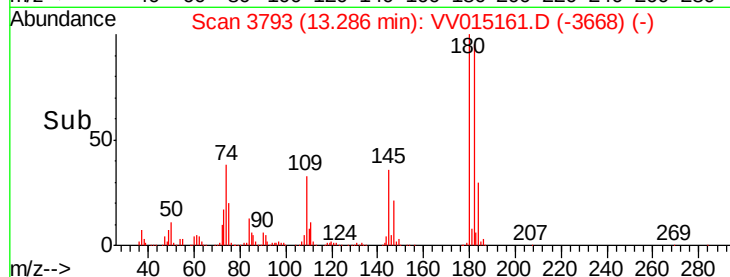
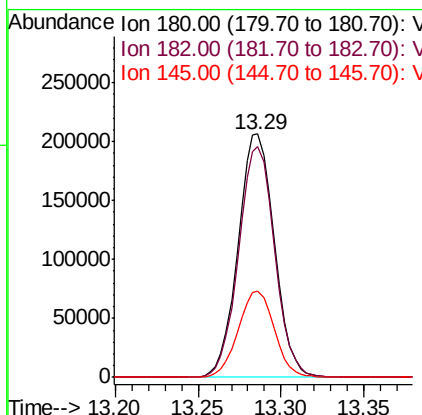
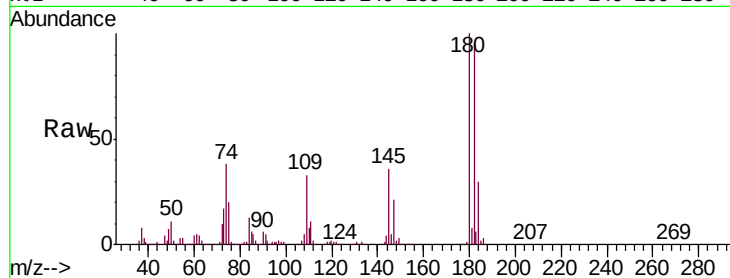




#68  
 1,2,4-trichlorobenzene  
 Concen: 62.915 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0DL5

Tgt Ion:180 Resp: 314012  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 76.1 114.1  
 145 35.5 26.6 40.0



#70  
 1,2,3-Trichlorobenzene  
 Concen: 18.017 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015161.D  
 Acq: 26 Mar 2020 02:10

Tgt Ion:180 Resp: 89361  
 Ion Ratio Lower Upper  
 180 100  
 182 93.7 76.3 114.5  
 145 37.1 29.6 44.4

