

Data File : VV015158.D  
Acq On : 26 Mar 2020 00:58  
Operator : SY/MD  
Sample : L1968-13DL 1000X  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
CODE5DL

Quant Time: Mar 26 04:24:44 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  | 580024   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 557932   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 241780   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 198327   | 40.89    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.78% |
| 7) Chloroethane-d5             | 1.58    | 69    | 190753   | 43.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.84% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 325078   | 34.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.06% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 307120   | 96.50    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.50% |
| 24) Chloroform-d               | 4.38    | 84    | 355955   | 44.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.50% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 243218   | 46.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.18% |
| 32) Benzene-d6                 | 5.08    | 84    | 736376   | 45.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.54% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 229545   | 44.96    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.92% |
| 41) Toluene-d8                 | 7.34    | 98    | 683685   | 44.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.94% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 107069   | 38.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.58% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 238321   | 93.20    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 336650   | 44.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.56% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 243806   | 45.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.16% |

#### Target Compounds

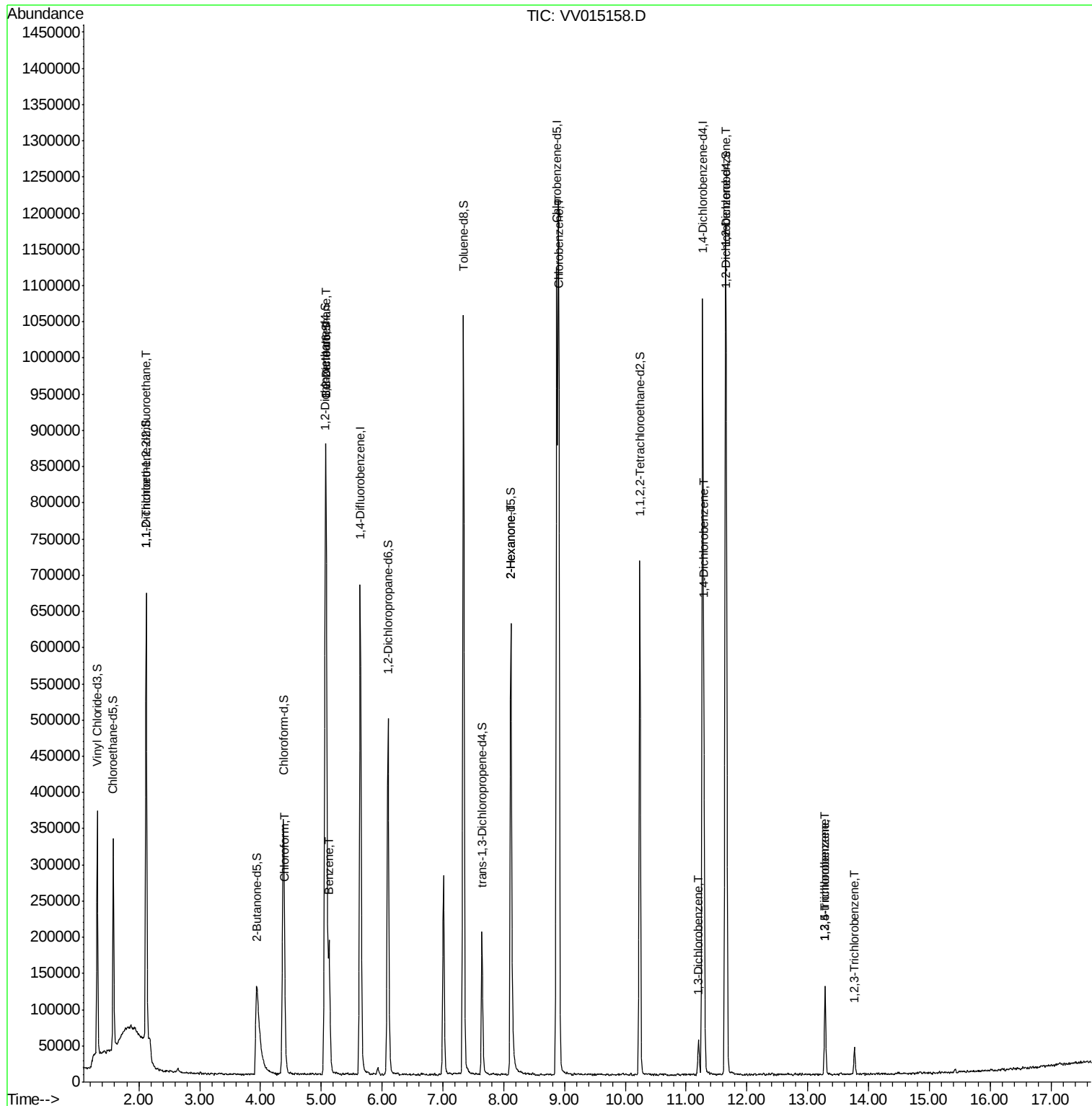
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 2897   | 0.715  | ug/L # | 32     |
| 25) Chloroform                 | 4.41  | 83  | 10804  | 1.641  | ug/L   | 82     |
| 27) 1,2-Dichloroethane         | 5.08  | 62  | 4329   | 0.849  | ug/L   | 95     |
| 33) Benzene                    | 5.13  | 78  | 183718 | 12.796 | ug/L   | 100    |
| 48) 2-Hexanone                 | 8.12  | 43  | 29077  | 6.945  | ug/L # | 72     |
| 51) Chlorobenzene              | 8.90  | 112 | 614362 | 59.353 | ug/L   | 100    |
| 62) 1,3-Dichlorobenzene        | 11.21 | 146 | 18877  | 2.666  | ug/L   | 96     |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146 | 145590 | 20.180 | ug/L   | 99     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146 | 212255 | 29.708 | ug/L   | 98     |
| 67) 1,3,5-Trichlorobenzene     | 13.29 | 180 | 30610  | 6.414  | ug/L   | 97     |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180 | 30610  | 6.813  | ug/L   | 97     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180 | 8561   | 1.917  | ug/L   | 96     |

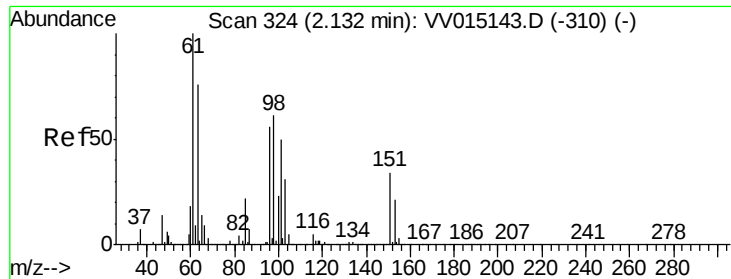
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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C0DE5DL

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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: 0.715 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV015158.D

Acq: 26 Mar 2020 00:58

Instrument :

MSVOA\_V

ClientSampleId :

C0DE5DL

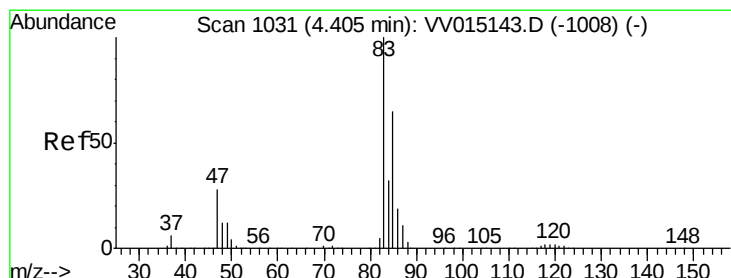
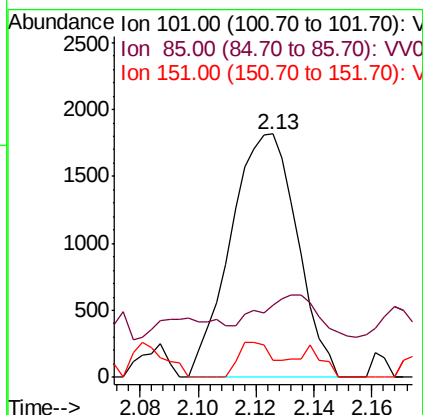
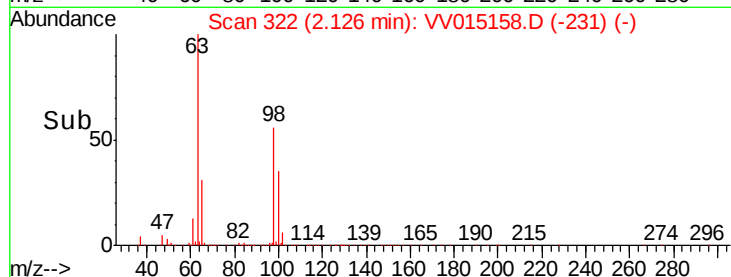
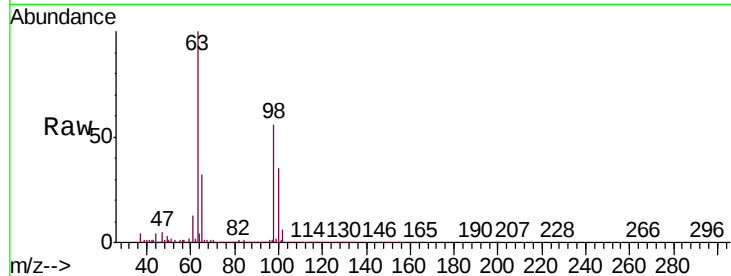
Tgt Ion: 101 Resp: 2897

Ion Ratio Lower Upper

101 100

85 14.6 36.0 54.0#

151 2.7 56.2 84.2#



#25

Chloroform

Concen: 1.641 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV015158.D

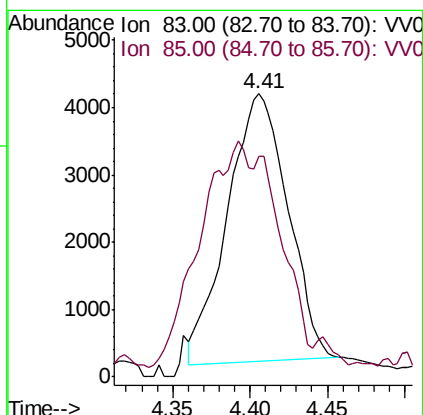
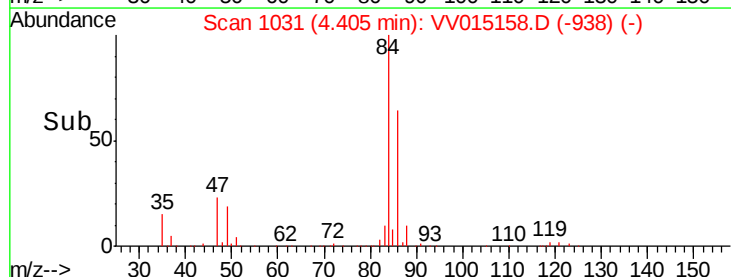
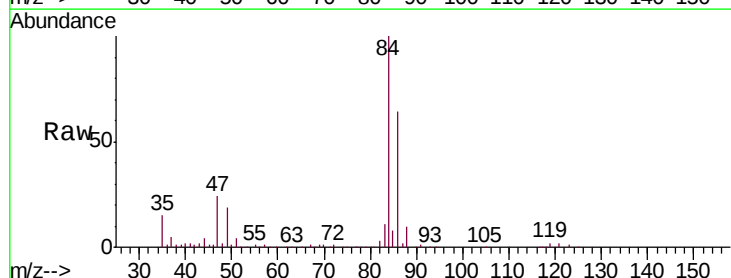
Acq: 26 Mar 2020 00:58

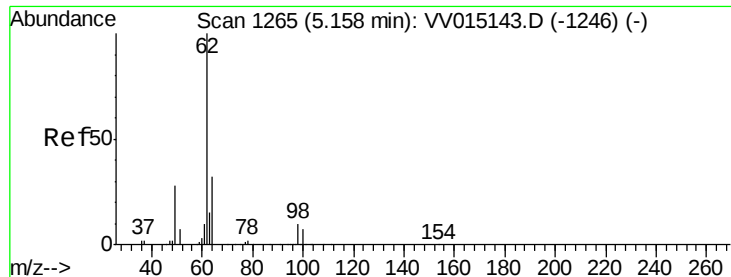
Tgt Ion: 83 Resp: 10804

Ion Ratio Lower Upper

83 100

85 78.2 44.8 83.2

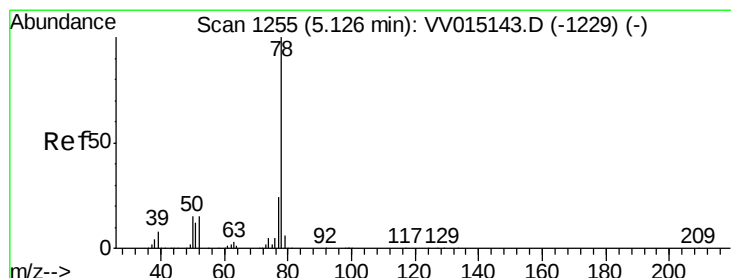
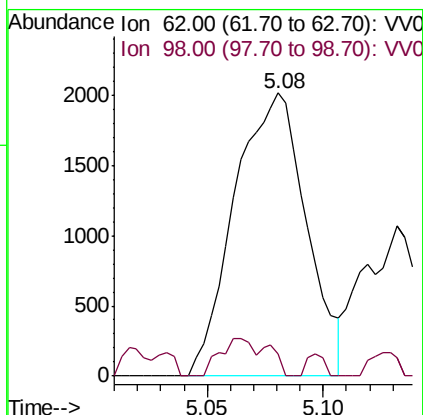
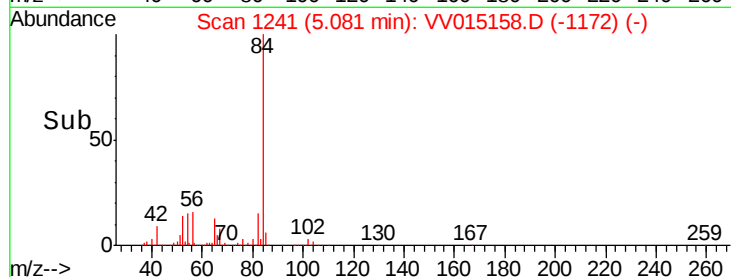
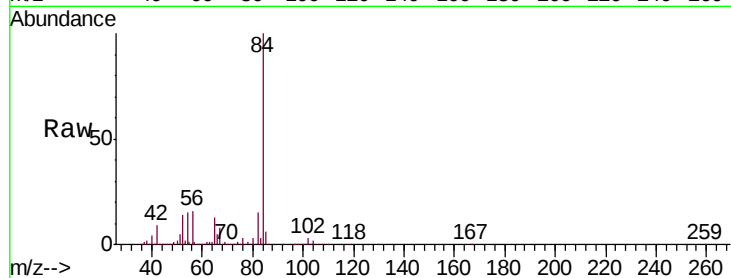




#27  
 1,2-Dichloroethane  
 Concen: 0.849 ug/L  
 RT: 5.08 min Scan# 1241  
 Delta R.T. -0.08 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

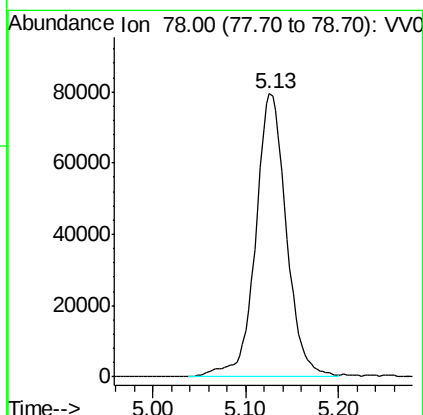
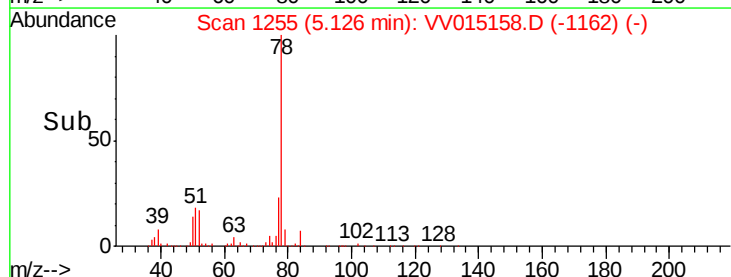
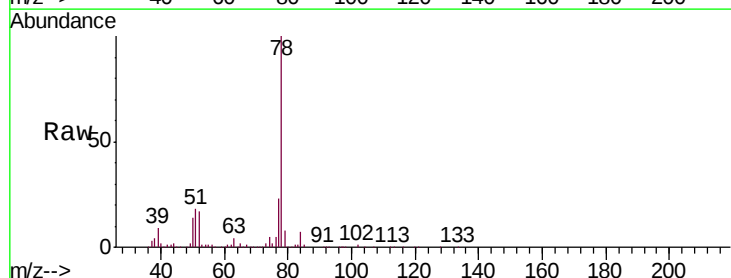
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 CODE5DL

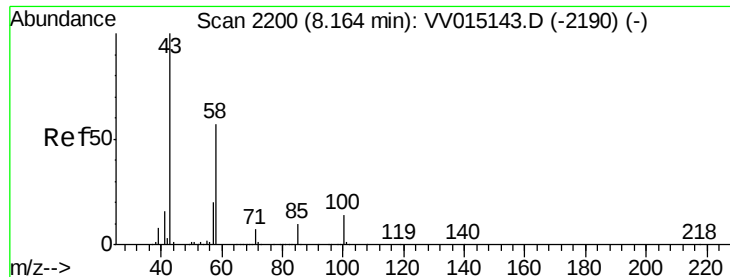
Tgt Ion: 62 Resp: 4329  
 Ion Ratio Lower Upper  
 62 100  
 98 7.7 7.5 11.3



#33  
 Benzene  
 Concen: 12.796 ug/L  
 RT: 5.13 min Scan# 1255  
 Delta R.T. 0.00 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

Tgt Ion: 78 Resp: 183718

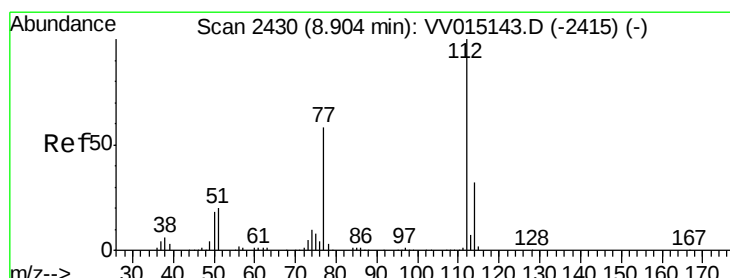
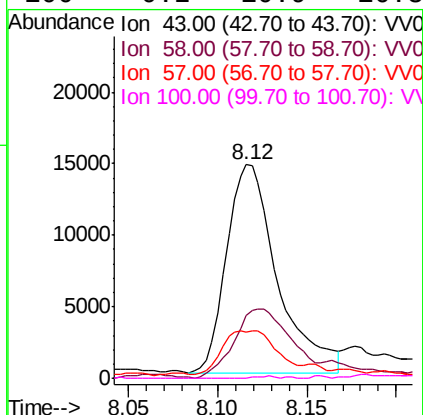
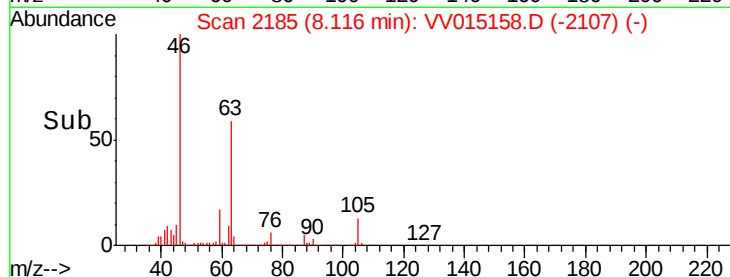
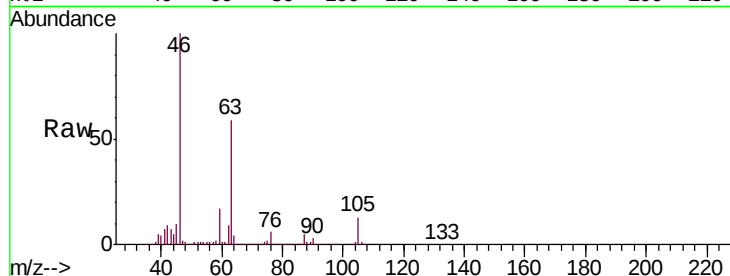




#48  
2-Hexanone  
Concen: 6.945 ug/L  
RT: 8.12 min Scan# 2185  
Delta R.T. -0.05 min  
Lab File: VV015158.D  
Acq: 26 Mar 2020 00:58

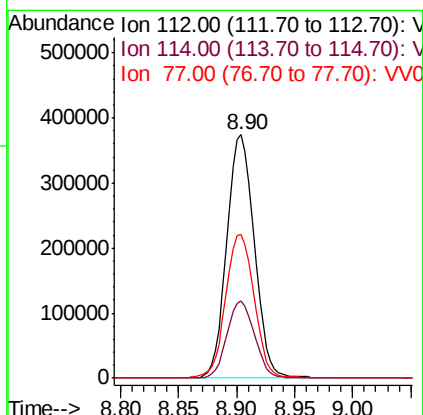
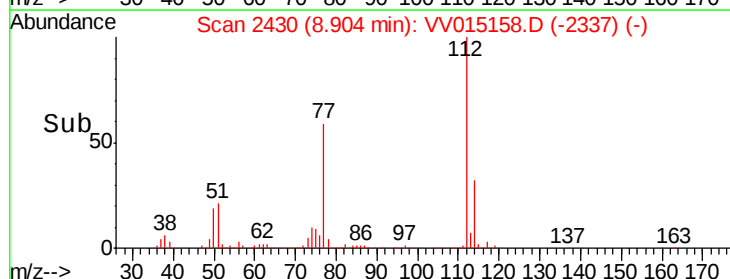
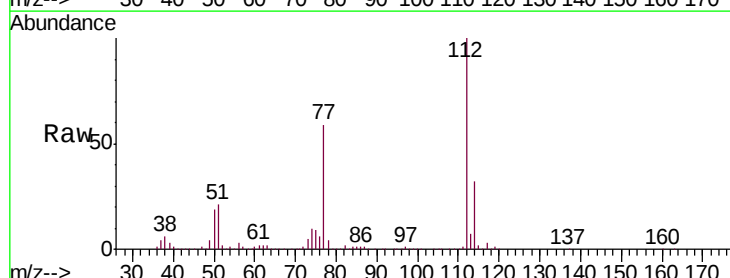
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DE5DL

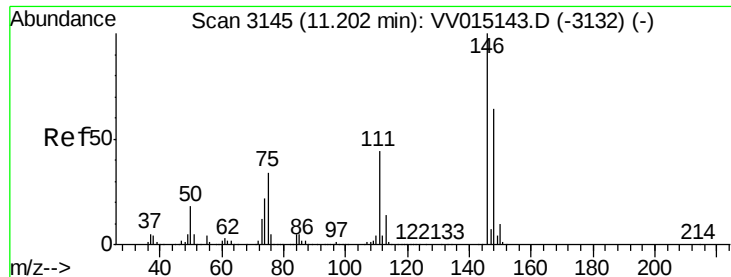
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 29077 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 37.3  | 47.0  | 70.6# |
| 57       | 10.3  | 16.5  | 24.7# |
| 100      | 0.2   | 10.9  | 16.3# |



#51  
Chlorobenzene  
Concen: 59.353 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV015158.D  
Acq: 26 Mar 2020 00:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 614362 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.6  | 22.0  | 40.8   |
| 77       | 58.8  | 47.2  | 70.8   |

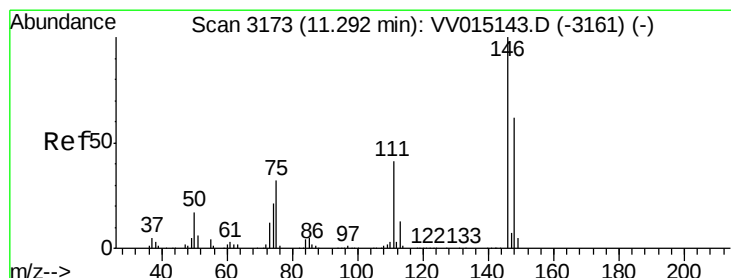
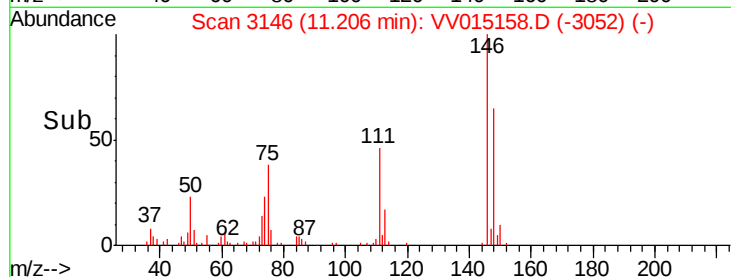
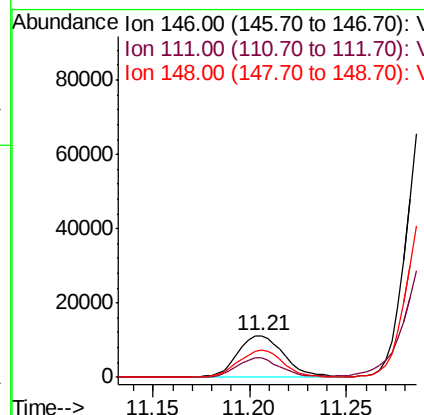
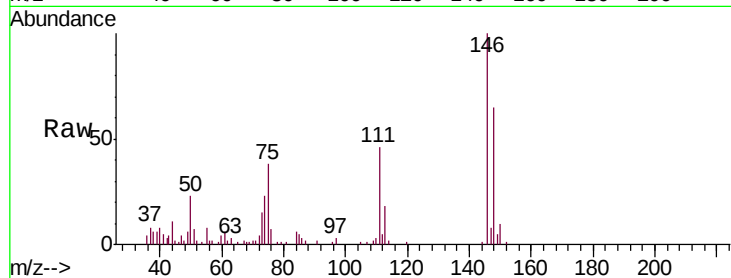




#62  
 1,3-Dichlorobenzene  
 Concen: 2.666 ug/L  
 RT: 11.21 min Scan# 3146  
 Delta R.T. 0.00 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

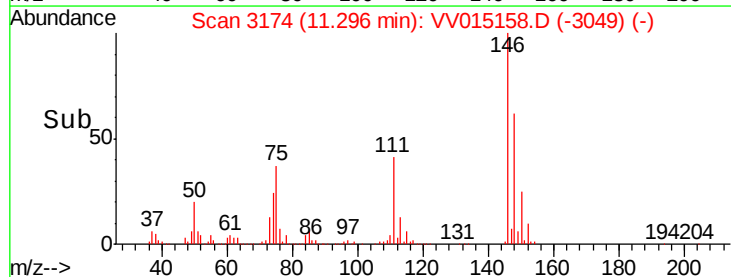
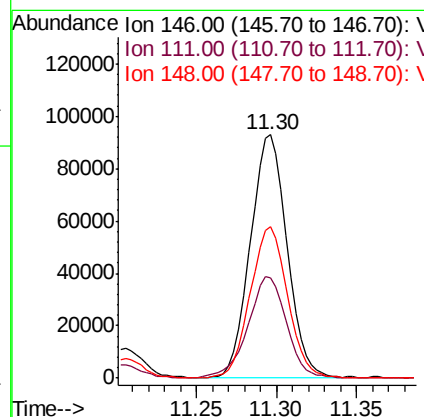
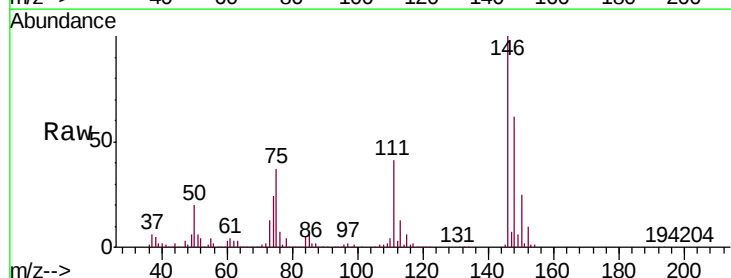
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DE5DL

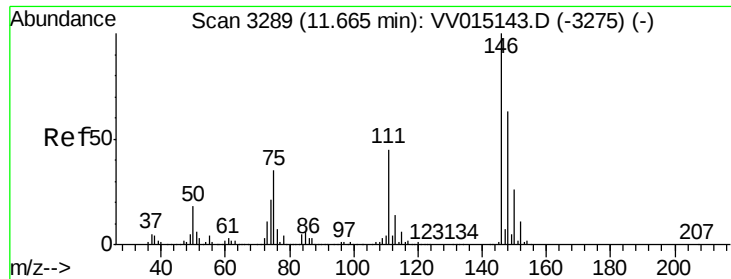
Tgt Ion:146 Resp: 18877  
 Ion Ratio Lower Upper  
 146 100  
 111 46.5 29.3 54.5  
 148 65.3 44.7 82.9



#63  
 1,4-Dichlorobenzene  
 Concen: 20.180 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

Tgt Ion:146 Resp: 145590  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 28.4 52.8  
 148 62.0 44.0 81.8

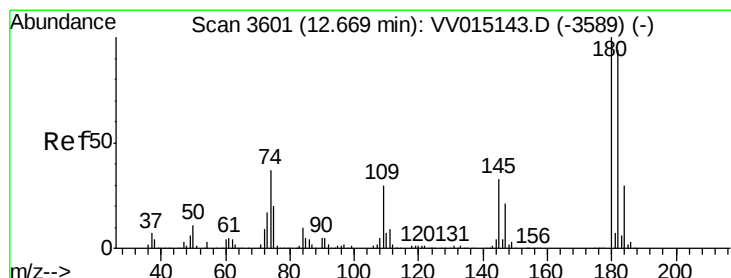
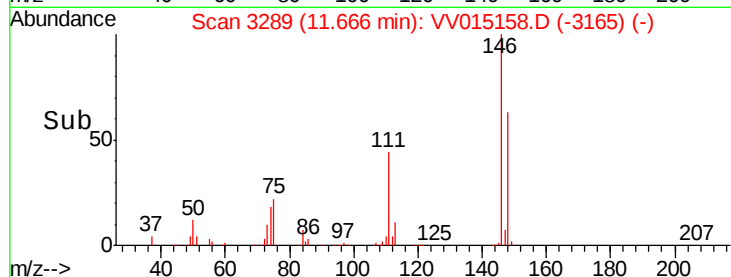
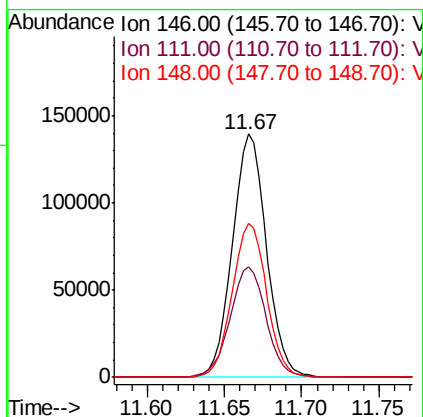
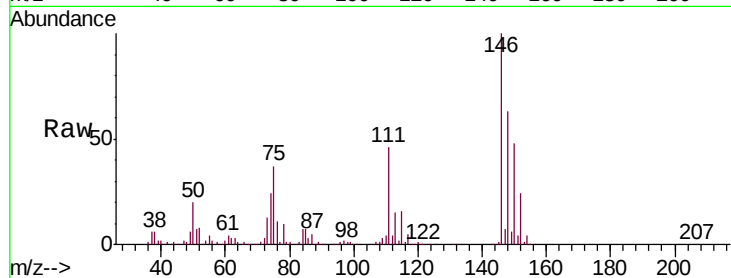




#65  
 1,2-Dichlorobenzene  
 Concen: 29.708 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

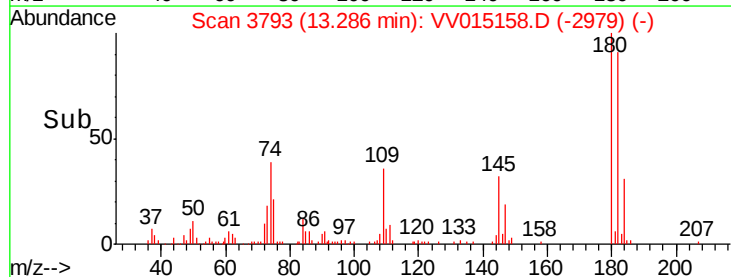
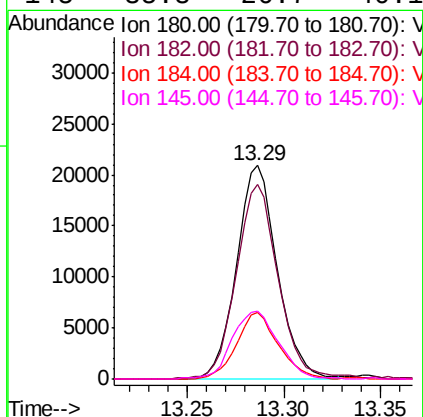
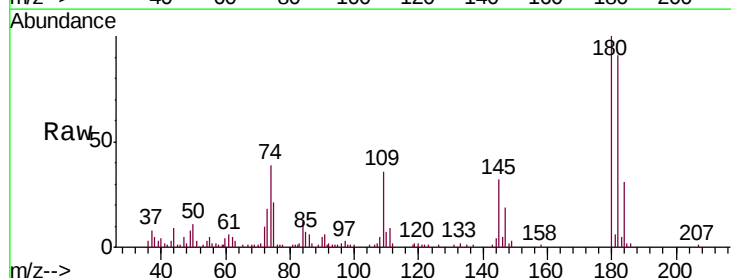
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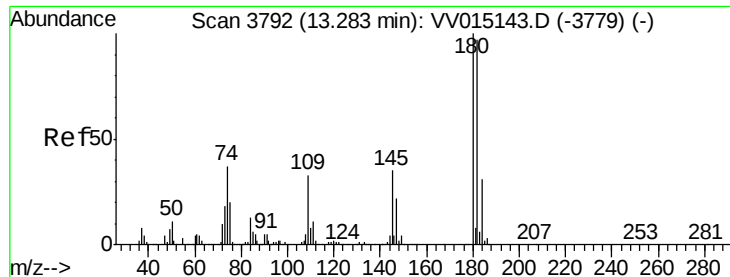
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 Ion Ratio Lower Upper  
 146 100  
 111 45.6 35.4 53.2  
 148 63.3 49.7 74.5



#67  
 1,3,5-Trichlorobenzene  
 Concen: 6.414 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.62 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

Tgt Ion:180 Resp: 30610  
 Ion Ratio Lower Upper  
 180 100  
 182 92.2 76.1 114.1  
 184 32.0 24.4 36.6  
 145 35.8 26.7 40.1

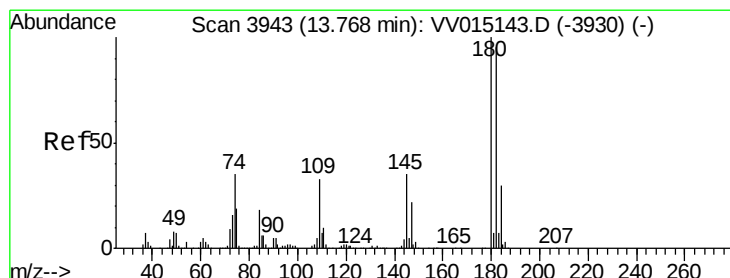
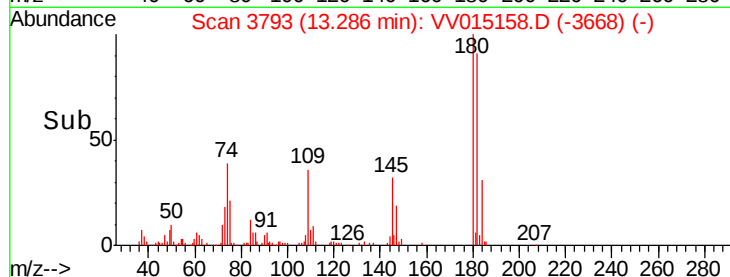
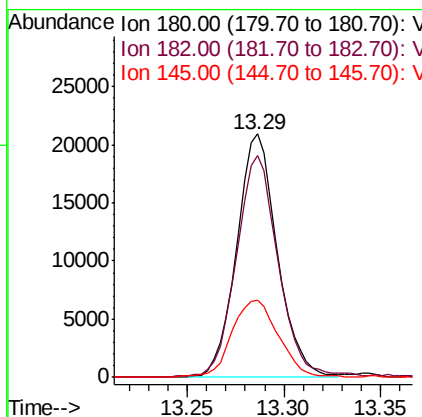
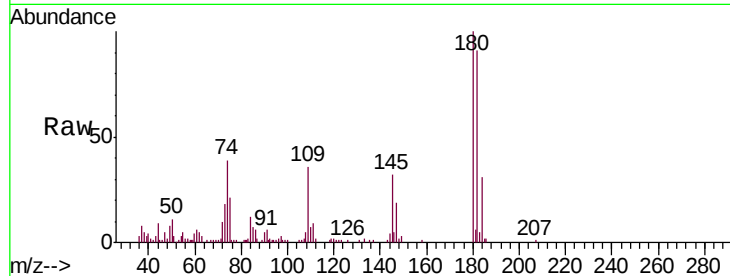




#68  
 1,2,4-trichlorobenzene  
 Concen: 6.813 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 CODE5DL

Tgt Ion:180 Resp: 30610  
 Ion Ratio Lower Upper  
 180 100  
 182 92.2 76.1 114.1  
 145 35.8 26.6 40.0



#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.917 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015158.D  
 Acq: 26 Mar 2020 00:58

Tgt Ion:180 Resp: 8561  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 76.3 114.5  
 145 43.7 29.6 44.4

