

Data File : VV015145.D  
Acq On : 25 Mar 2020 19:42  
Operator : SY/MD  
Sample : L1968-10DL 50X  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
CODE0

Quant Time: Mar 26 02:03:00 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  | 581086   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 555970   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 243132   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 210613   | 43.35    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.70% |
| 7) Chloroethane-d5             | 1.58    | 69    | 194413   | 44.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.34% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 321759   | 33.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.24% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 317164   | 99.48    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.48% |
| 24) Chloroform-d               | 4.38    | 84    | 366377   | 45.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.92% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 248964   | 47.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.22% |
| 32) Benzene-d6                 | 5.08    | 84    | 726867   | 45.34    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.68% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 237957   | 46.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.54% |
| 41) Toluene-d8                 | 7.34    | 98    | 680168   | 44.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.78% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 116413   | 41.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.56% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 252258   | 99.00    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.00% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 348507   | 46.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 246663   | 45.36    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.72% |

#### Target Compounds

|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 3815    | 0.940   | ug/L # | 36     |
| 33) Benzene                    | 5.13  | 78  | 113482  | 7.932   | ug/L   | 100    |
| 44) trans-1,3-Dichloropropene  | 7.64  | 75  | 5881    | 0.972   | ug/L   | 86     |
| 51) Chlorobenzene              | 8.90  | 112 | 1281998 | 124.291 | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146 | 58381   | 8.198   | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146 | 315139  | 43.439  | ug/L   | 97     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146 | 467232  | 65.032  | ug/L   | 98     |
| 66) 1,2-Dibromo-3-chloropropan | 12.42 | 75  | 1985    | 1.272   | ug/L # | 15     |
| 67) 1,3,5-Trichlorobenzene     | 13.28 | 180 | 127388  | 26.546  | ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180 | 127388  | 28.194  | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180 | 33730   | 7.512   | ug/L   | 98     |

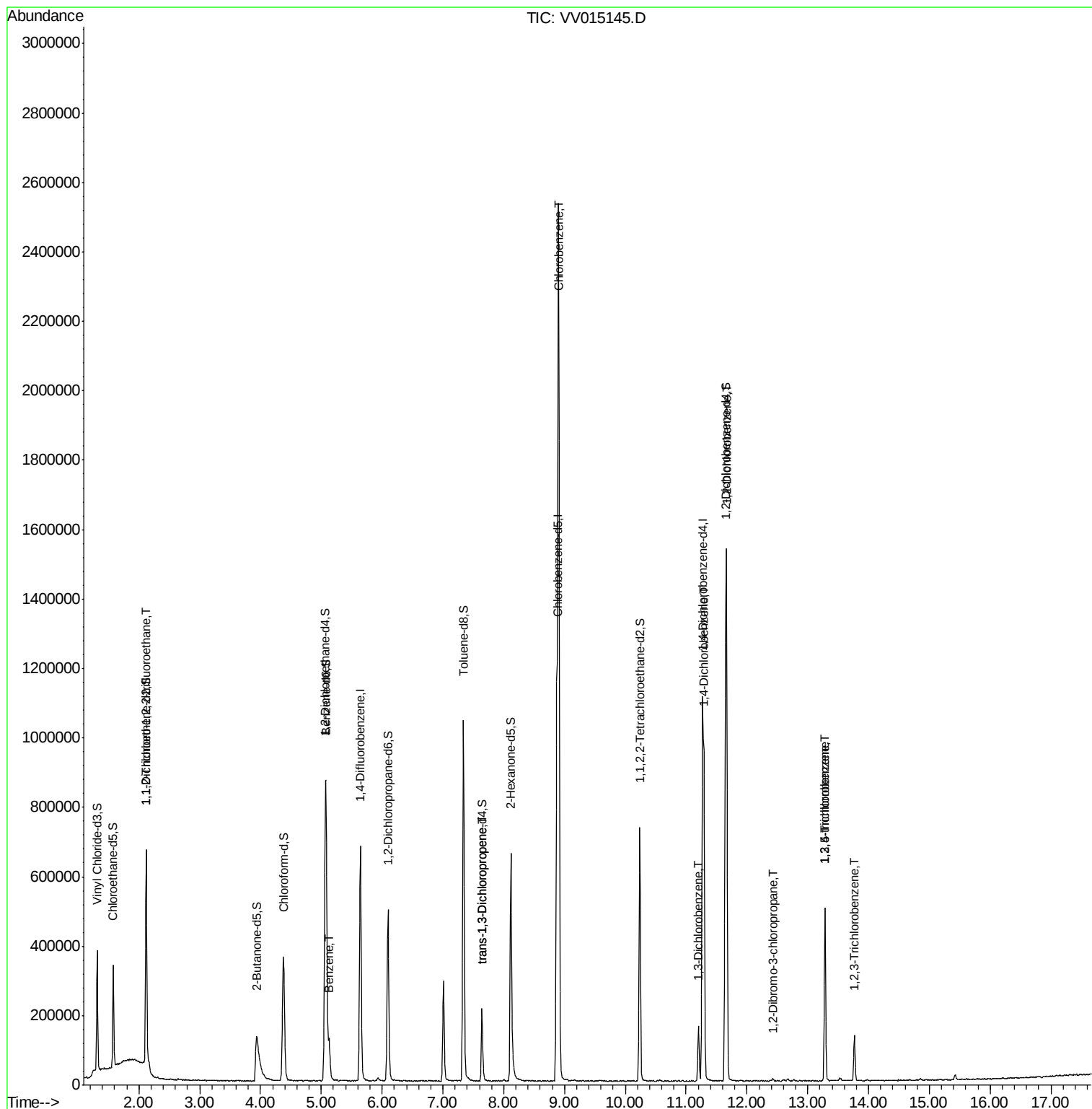
(#) = qualifier out of range (m) = manual integration (+) = signals summed

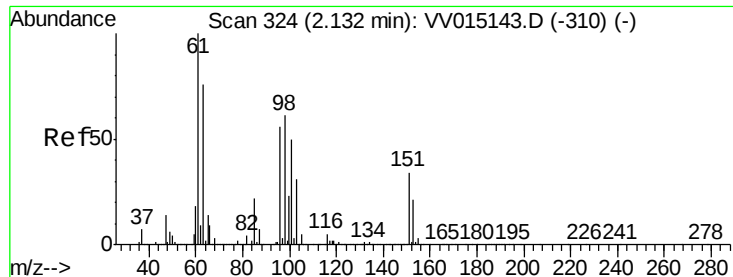
Data File : VV015145.D

```
Acq On       : 25 Mar 2020   19:42
Operator    : SY/MD
Sample      : L1968-10DL 50X
Misc        : 5.0mL/MSVOA_V/WATER
ALS Vial     : 1      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
C0DE0

Quant Time: Mar 26 02:03:00 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: 0.940 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

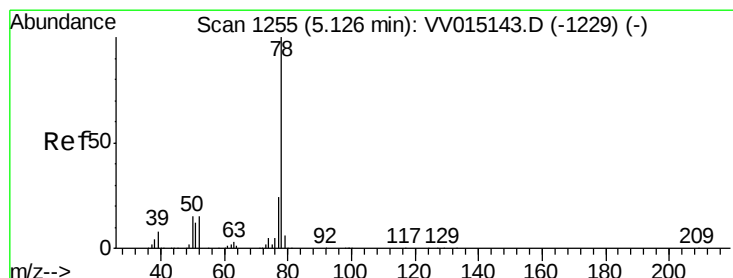
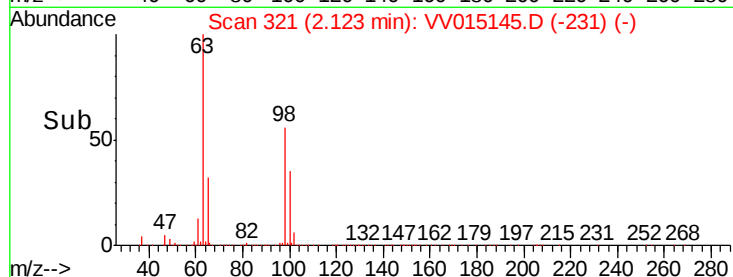
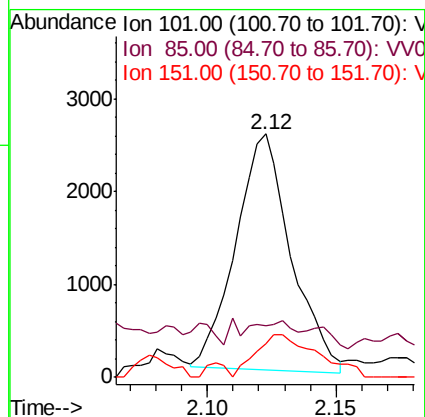
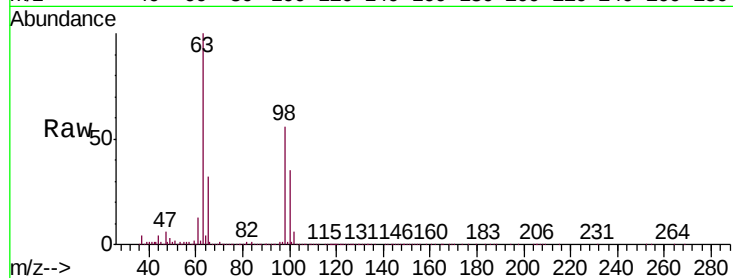
Instrument :

MSVOA\_V

ClientSampleId :

C0DE0

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 3815  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 1.7   | 36.0  | 54.0# |
| 151      | 19.0  | 56.2  | 84.2# |



#33

Benzene

Concen: 7.932 ug/L

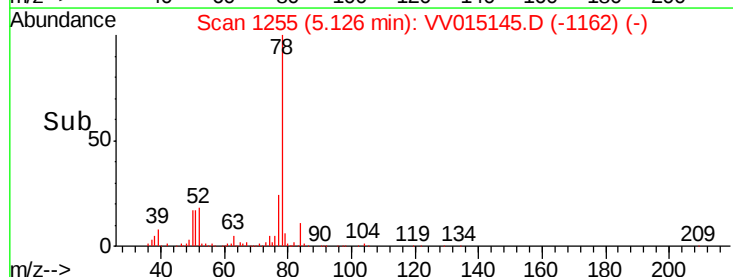
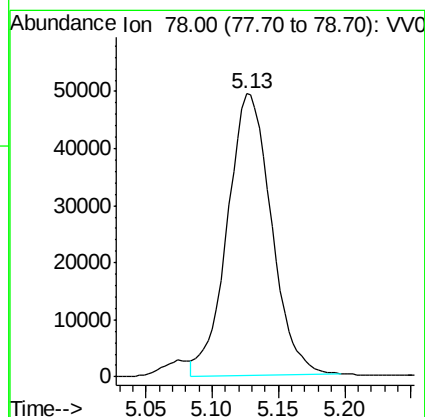
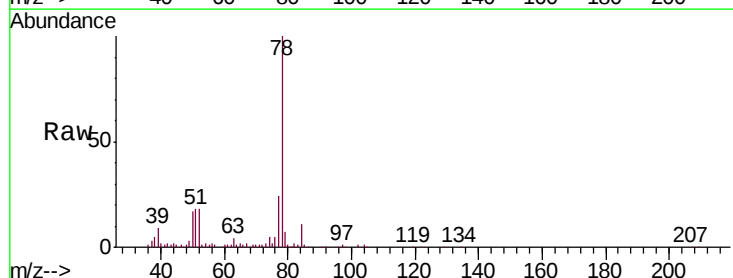
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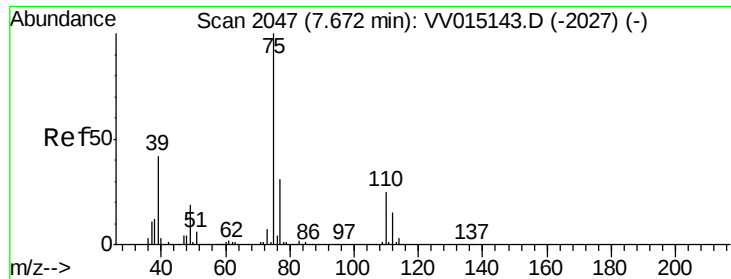
Delta R.T. 0.00 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

Tgt Ion: 78 Resp: 113482





#44

trans-1,3-Dichloropropene

Concen: 0.972 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

Instrument :

MSVOA\_V

ClientSampleId :

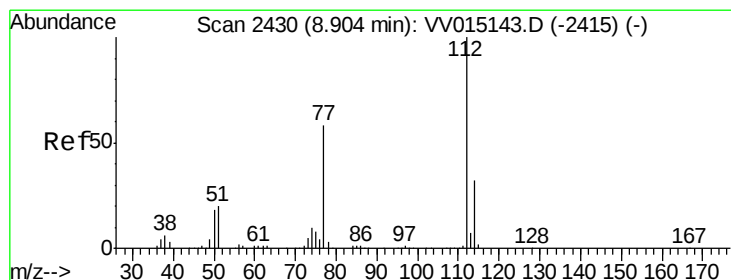
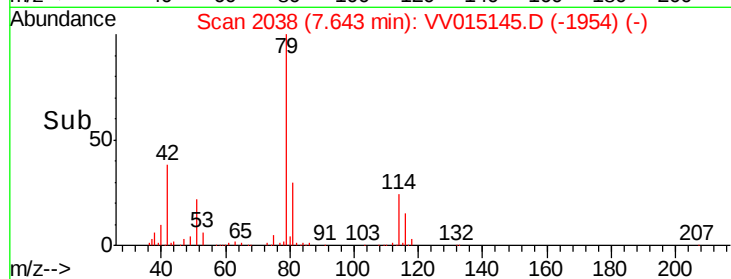
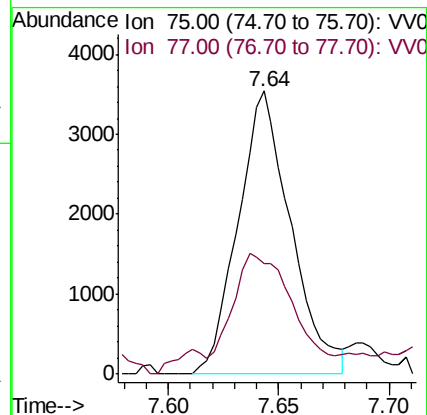
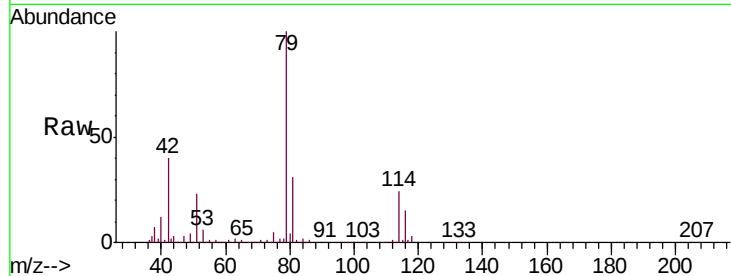
C0DE0

Tgt Ion: 75 Resp: 5881

Ion Ratio Lower Upper

75 100

77 39.1 22.0 41.0



#51

Chlorobenzene

Concen: 124.291 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

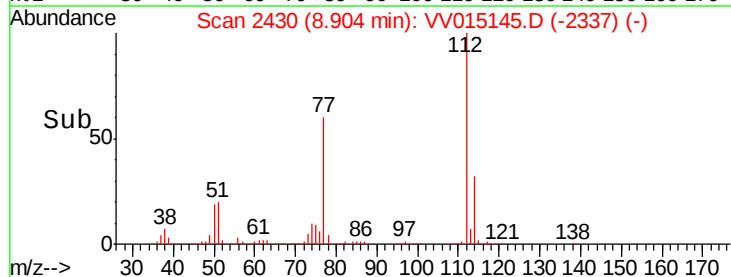
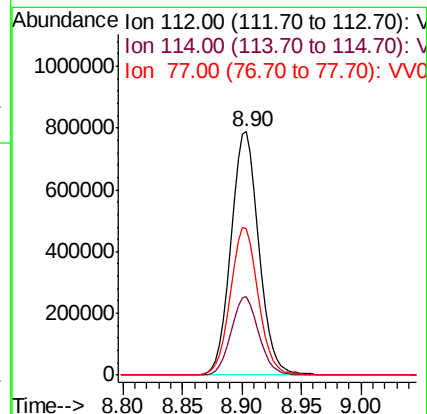
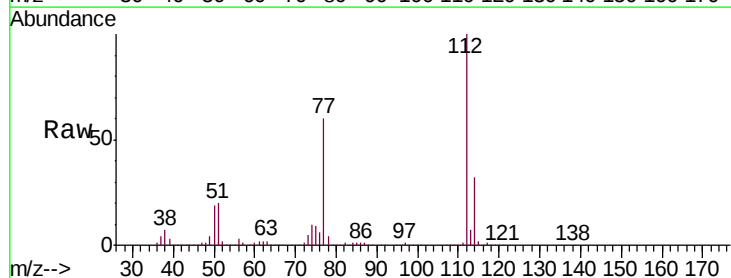
Tgt Ion: 112 Resp: 1281998

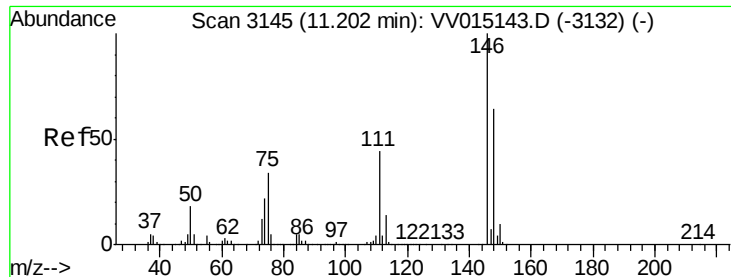
Ion Ratio Lower Upper

112 100

114 32.1 22.0 40.8

77 60.3 47.2 70.8





#62

1,3-Dichlorobenzene

Concen: 8.198 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

Instrument :

MSVOA\_V

ClientSampleId :

C0DE0

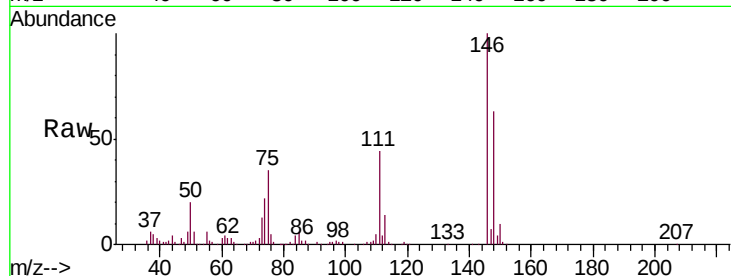
Tgt Ion:146 Resp: 58381

Ion Ratio Lower Upper

146 100

111 44.4 29.3 54.5

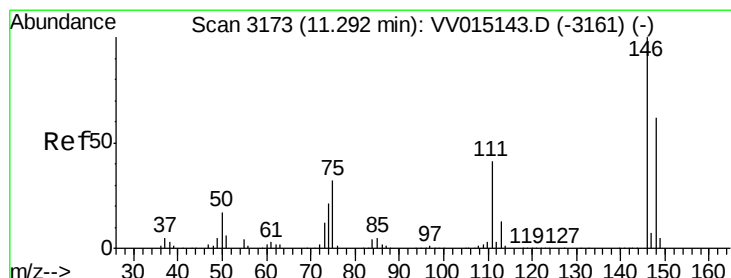
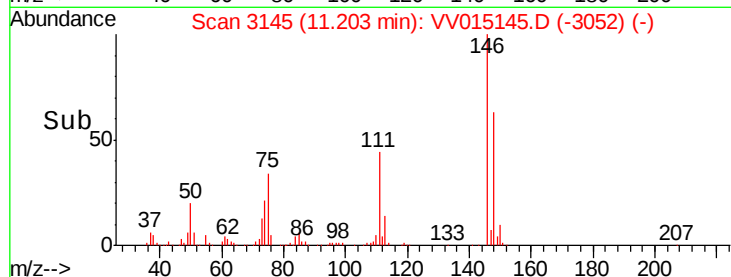
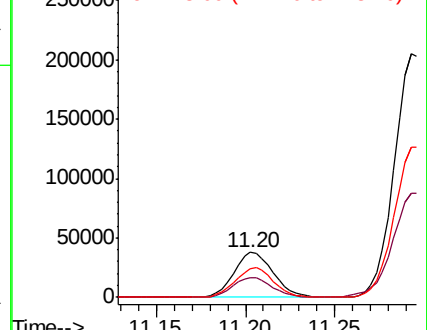
148 62.7 44.7 82.9



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: 43.439 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

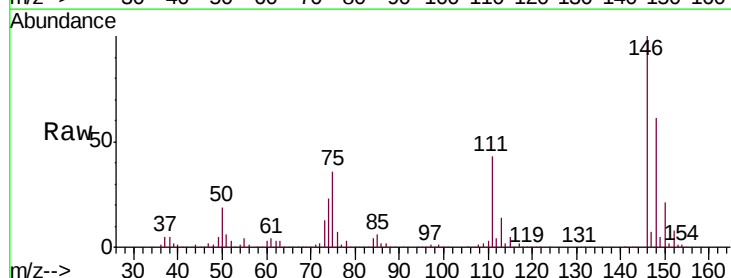
Tgt Ion:146 Resp: 315139

Ion Ratio Lower Upper

146 100

111 42.8 28.4 52.8

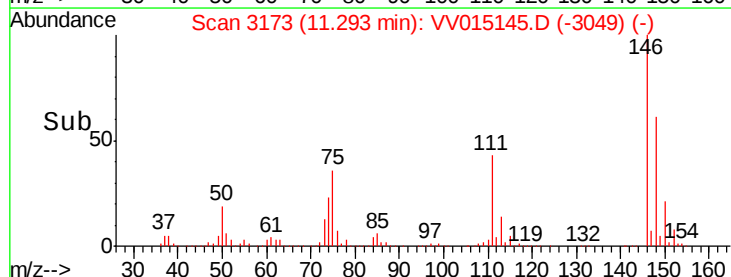
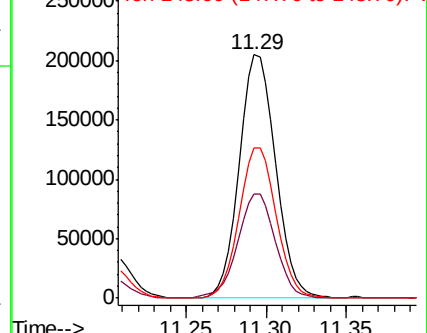
148 61.4 44.0 81.8

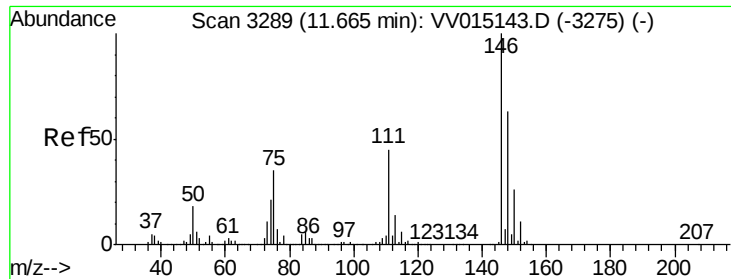


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 65.032 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

Instrument :

MSVOA\_V

ClientSampleId :

CODE0

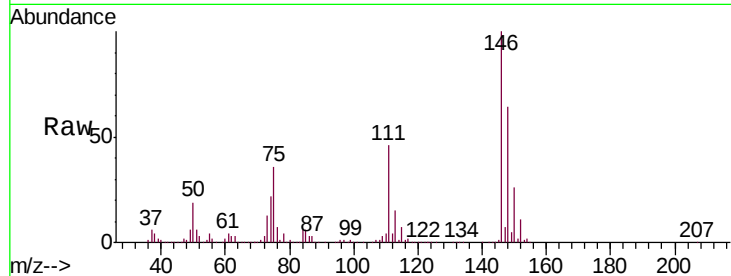
Tgt Ion:146 Resp: 467232

Ion Ratio Lower Upper

146 100

111 45.5 35.4 53.2

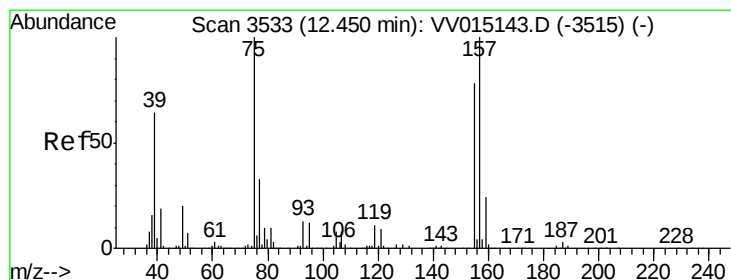
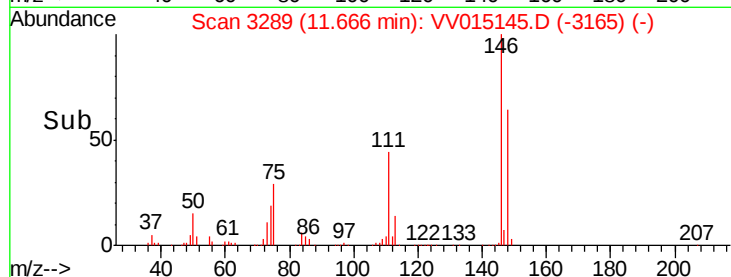
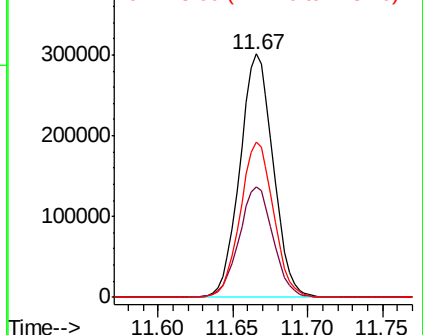
148 63.6 49.7 74.5



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



#66

1,2-Dibromo-3-chloropropane

Concen: 1.272 ug/L

RT: 12.42 min Scan# 3524

Delta R.T. -0.03 min

Lab File: VV015145.D

Acq: 25 Mar 2020 19:42

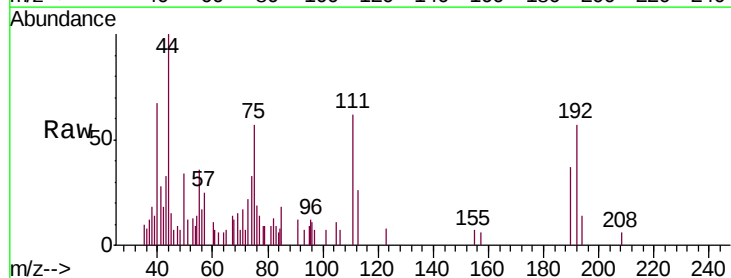
Tgt Ion: 75 Resp: 1985

Ion Ratio Lower Upper

75 100

155 11.5 66.2 99.4#

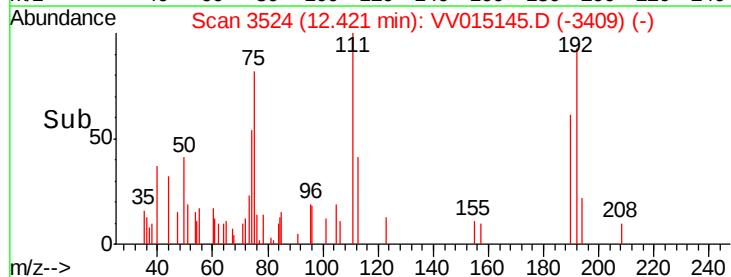
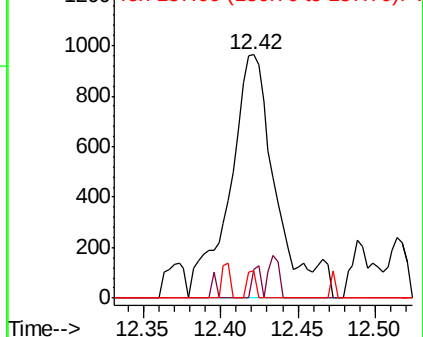
157 11.2 81.1 121.7#

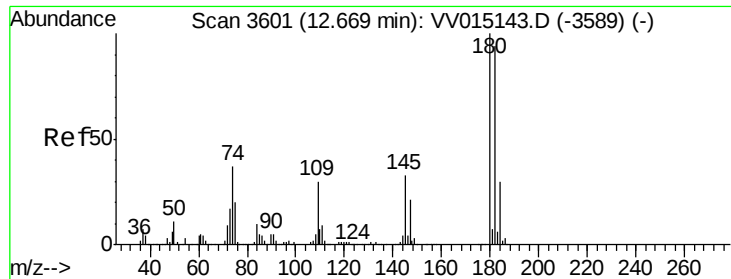


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

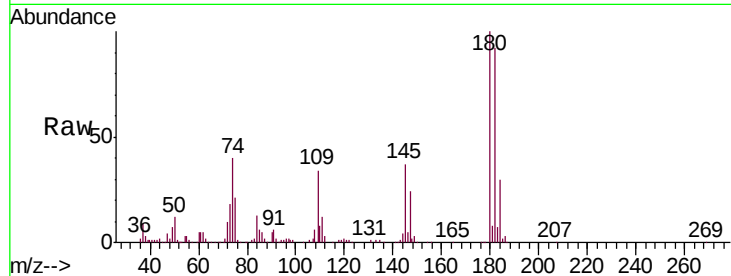




#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.546 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.61 min  
 Lab File: VV015145.D  
 Acq: 25 Mar 2020 19:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 CODE0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 76.1  | 114.1 |
| 184     | 30.3  | 24.4  | 36.6  |
| 145     | 35.6  | 26.7  | 40.1  |



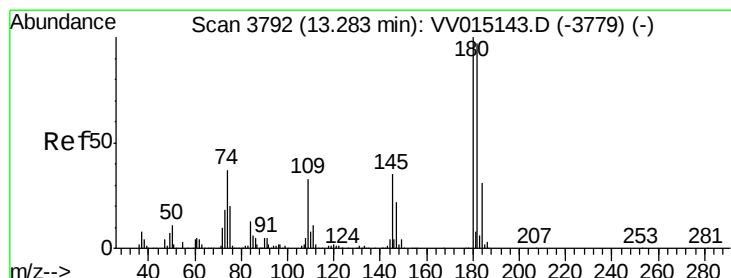
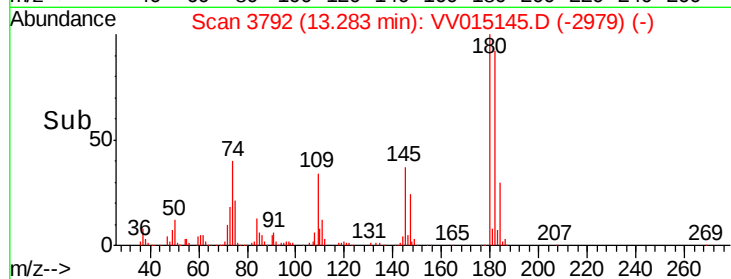
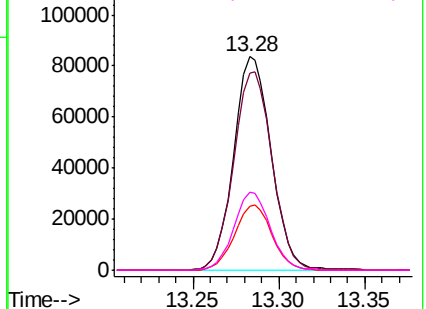
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

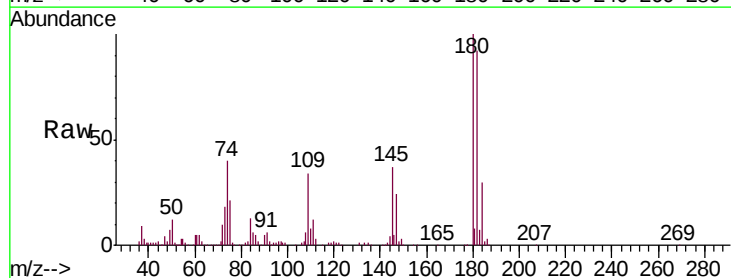
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 28.194 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV015145.D  
 Acq: 25 Mar 2020 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 76.1  | 114.1 |
| 145     | 35.6  | 26.6  | 40.0  |

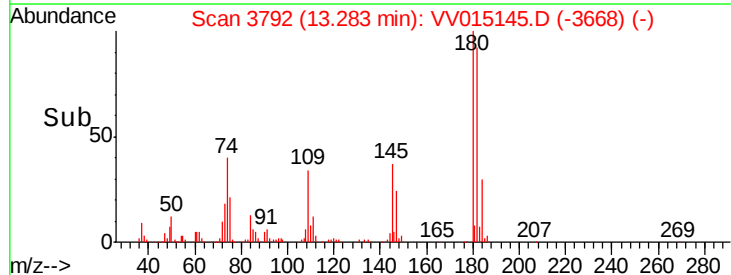
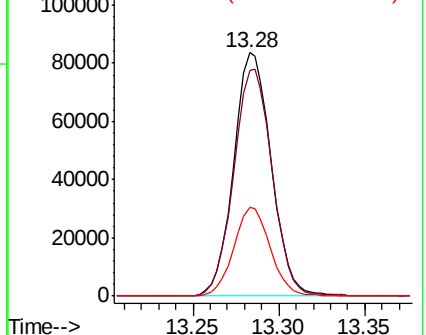


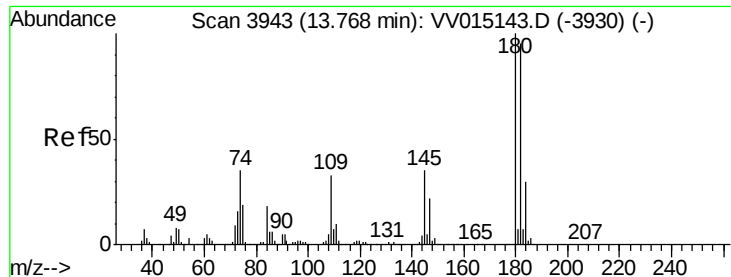
Abundance

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

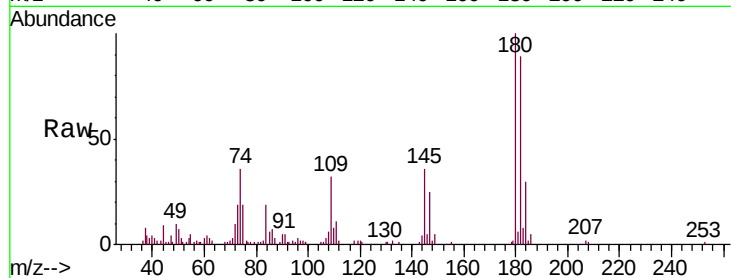




#70  
 1,2,3-Trichlorobenzene  
 Concen: 7.512 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015145.D  
 Acq: 25 Mar 2020 19:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 CODE0

Tgt Ion:180 Resp: 33730  
 Ion Ratio Lower Upper  
 180 100  
 182 93.1 76.3 114.5  
 145 38.1 29.6 44.4



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

