

Data File : VV012411.D  
Acq On : 26 Aug 2019 19:33  
Operator : SY/MD  
Sample : K4501-12MSD  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
GANM5MSD

Quant Time: Aug 27 02:26:17 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR082319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 27 02:19:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 222940   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 225754   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 86122    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 48995    | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.00% |
| 7) Chloroethane-d5             | 1.58   | 69    | 34350    | 4.18     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 84882    | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 85.80% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 102536   | 34.15    | ug/L | -0.04  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 68.30% |
| 24) Chloroform-d               | 4.40   | 84    | 105877   | 4.13     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 58711    | 4.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00% |
| 32) Benzene-d6                 | 5.10   | 84    | 231928   | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 73403    | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 88.20% |
| 41) Toluene-d8                 | 7.36   | 98    | 190829   | 3.88     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 77.60% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 23620    | 3.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 74.80% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 60925    | 31.11    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 62.22% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 38783    | 3.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 70.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 65785    | 4.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.80% |

#### Target Compounds

|                               |      |     |        |       |        | Qvalue |
|-------------------------------|------|-----|--------|-------|--------|--------|
| 12) 1,1-Dichloroethene        | 2.14 | 96  | 44147  | 4.937 | ug/L   | 92     |
| 14) Carbon disulfide          | 2.32 | 76  | 1767   | 0.063 | ug/L # | 85     |
| 25) Chloroform                | 4.43 | 83  | 11836  | 0.429 | ug/L   | 95     |
| 27) 1,2-Dichloroethane        | 5.14 | 62  | 2088   | 0.143 | ug/L # | 74     |
| 33) Benzene                   | 5.14 | 78  | 287574 | 4.996 | ug/L   | 100    |
| 34) Trichloroethene           | 5.96 | 95  | 72237  | 4.649 | ug/L   | 100    |
| 35) Methylcyclohexane         | 6.12 | 83  | 17224  | 0.706 | ug/L # | 17     |
| 37) 1,2-Dichloropropane       | 6.12 | 63  | 8714   | 0.597 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.03 | 75  | 1821   | 0.093 | ug/L # | 76     |
| 42) Toluene                   | 7.43 | 91  | 293522 | 4.992 | ug/L   | 99     |
| 44) trans-1,3-Dichloropropene | 7.67 | 75  | 1147   | 0.077 | ug/L # | 68     |
| 47) Tetrachloroethene         | 8.02 | 164 | 2286   | 0.182 | ug/L   | 98     |
| 48) 2-Hexanone                | 8.18 | 43  | 14668  | 2.602 | ug/L # | 82     |
| 49) Dibromochloromethane      | 8.02 | 129 | 1791   | 0.158 | ug/L # | 11     |
| 51) Chlorobenzene             | 8.92 | 112 | 204315 | 5.318 | ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV082619\  
Quantitation Report (Not Reviewed)

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ClientSampleId :  
GANM5MSD

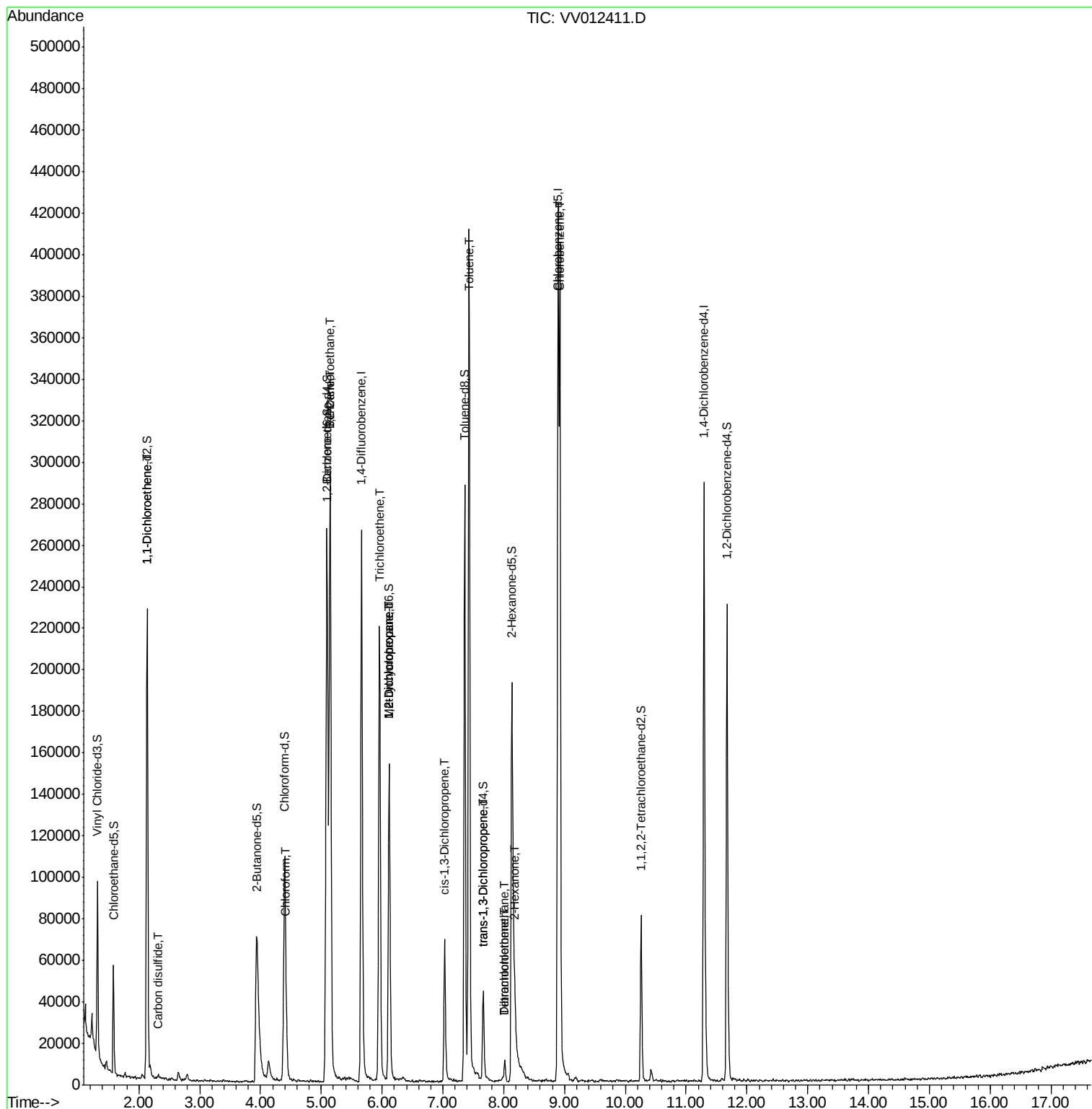
Quant Time: Aug 27 02:26:17 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR082319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 27 02:19:39 2019  
Response via : Initial Calibration

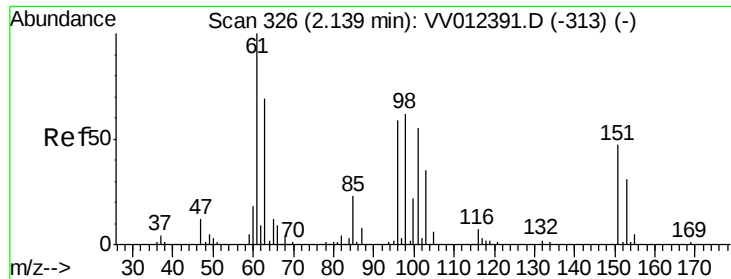
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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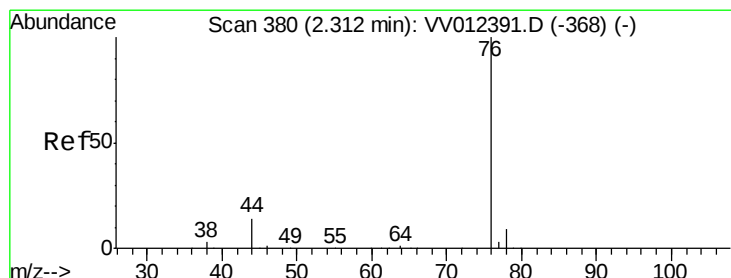
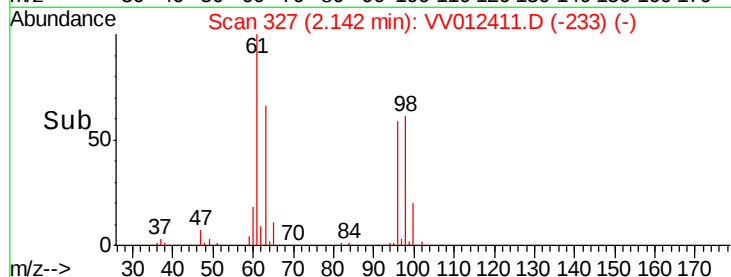
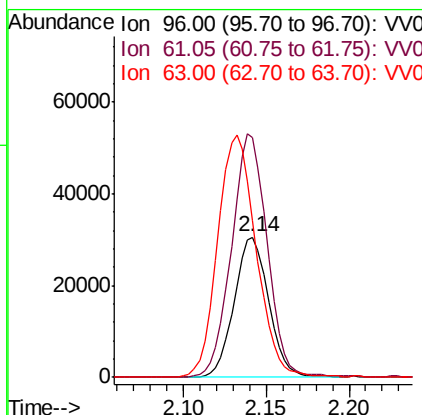
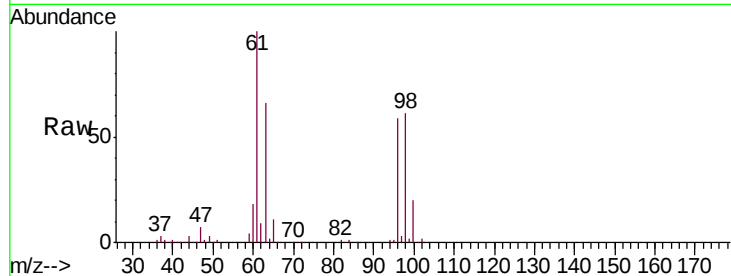




#12  
 1,1-Dichloroethene  
 Concen: 4.937 ug/L  
 RT: 2.14 min Scan# 327  
 Delta R.T. 0.00 min  
 Lab File: VV012411.D  
 Acq: 26 Aug 2019 19:33

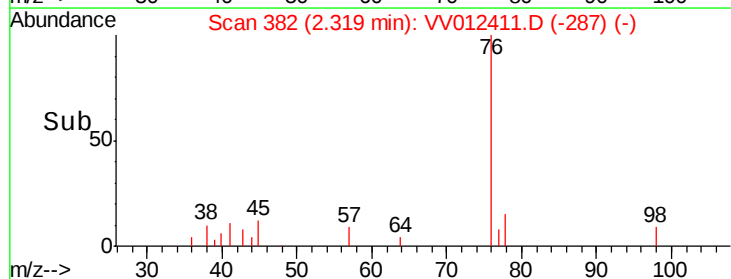
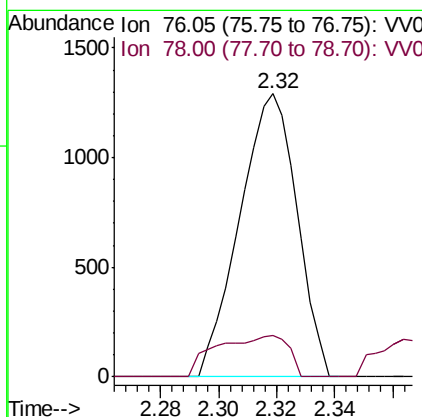
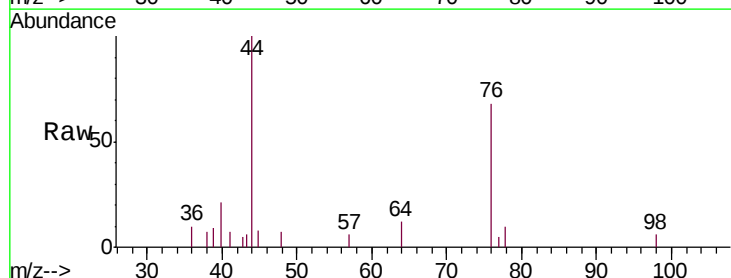
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GANM5MSD

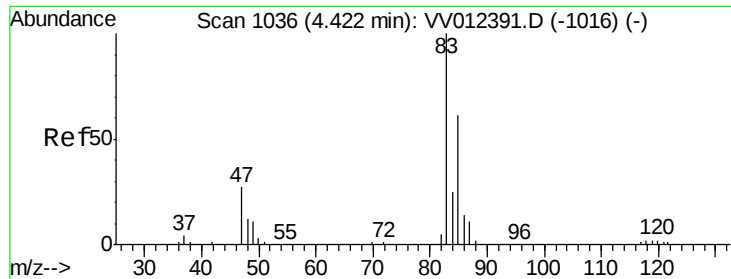
| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 170.8 | 122.3 | 227.1 |
| 63      | 112.0 | 90.6  | 168.2 |



#14  
 Carbon disulfide  
 Concen: 0.063 ug/L  
 RT: 2.32 min Scan# 382  
 Delta R.T. 0.01 min  
 Lab File: VV012411.D  
 Acq: 26 Aug 2019 19:33

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 76      | 100  |       |       |
| 78      | 14.6 | 7.3   | 10.9# |

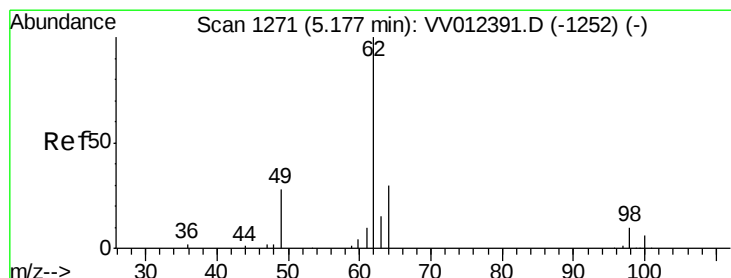
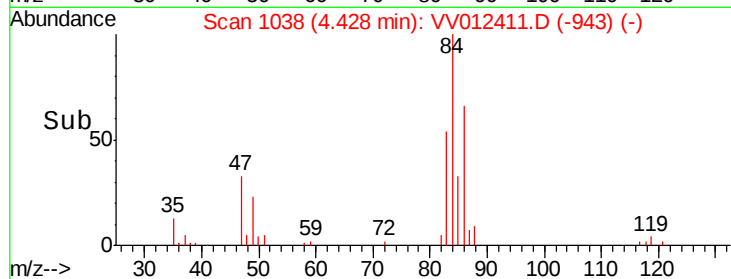
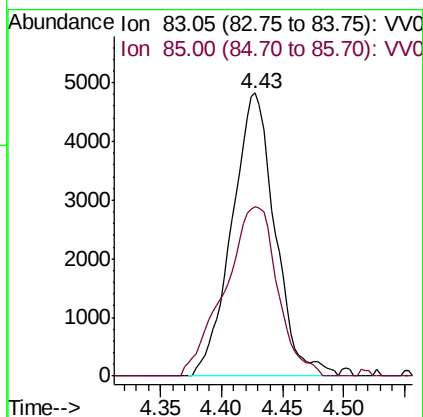
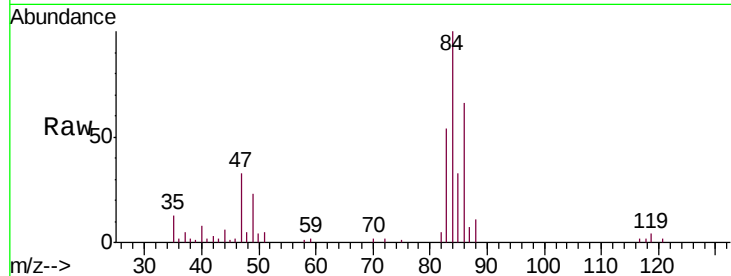




#25  
Chloroform  
Concen: 0.429 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.01 min  
Lab File: VV012411.D  
Acq: 26 Aug 2019 19:33

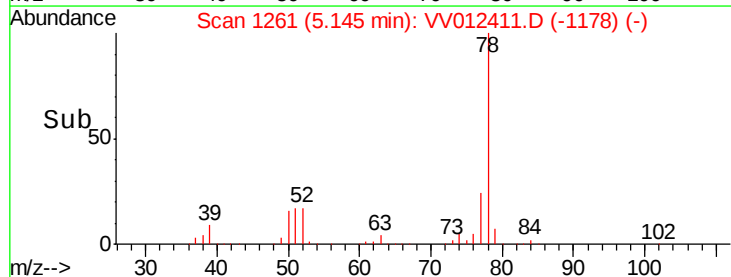
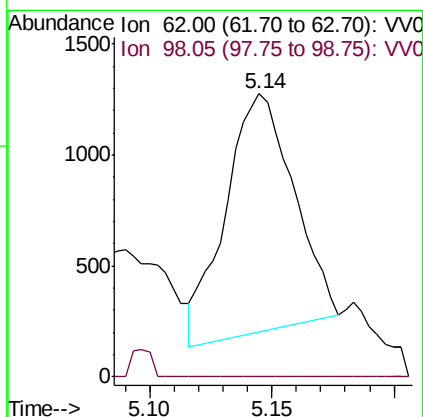
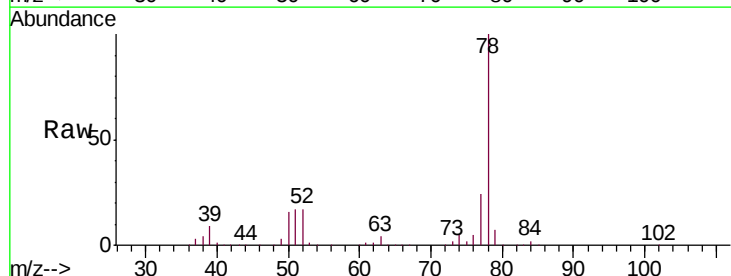
Instrument :  
MSVOA\_V  
ClientSampleId :  
GANM5MSD

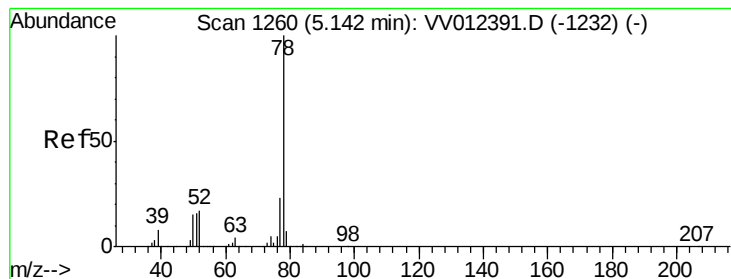
Tgt Ion: 83 Resp: 11836  
Ion Ratio Lower Upper  
83 100  
85 59.9 44.6 82.8



#27  
1,2-Dichloroethane  
Concen: 0.143 ug/L  
RT: 5.14 min Scan# 1261  
Delta R.T. -0.03 min  
Lab File: VV012411.D  
Acq: 26 Aug 2019 19:33

Tgt Ion: 62 Resp: 2088  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.6 11.4#





#33

Benzene

Concen: 4.996 ug/L

RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV012411.D

Acq: 26 Aug 2019 19:33

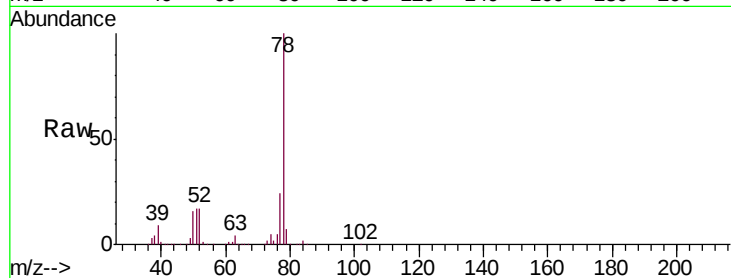
Instrument :

MSVOA\_V

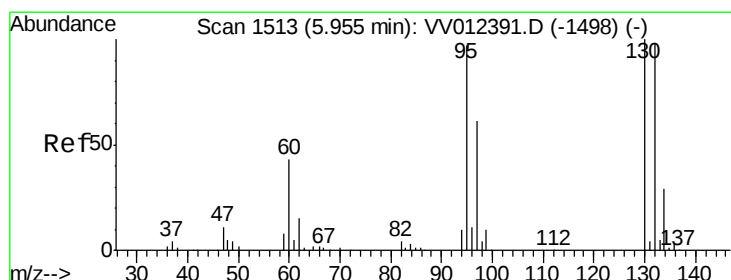
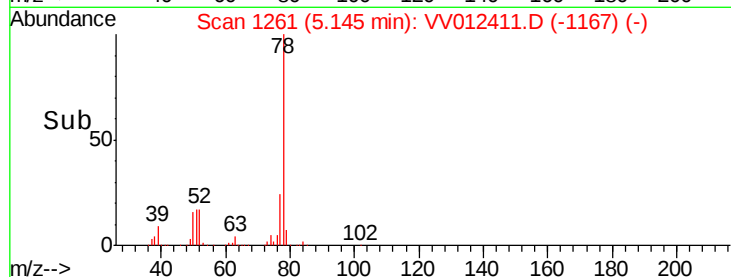
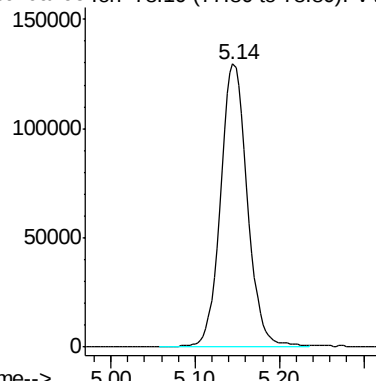
ClientSampleId :

GANM5MSD

Tgt Ion: 78 Resp: 287574



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 4.649 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012411.D

Acq: 26 Aug 2019 19:33

Tgt Ion: 95 Resp: 72237

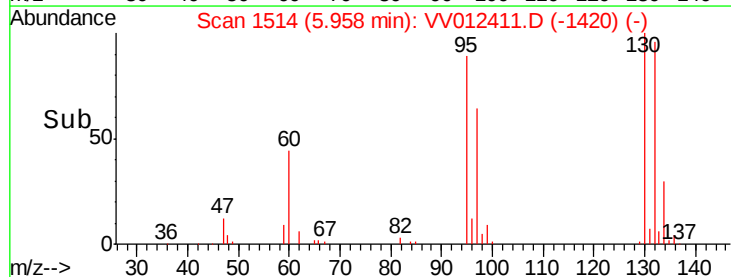
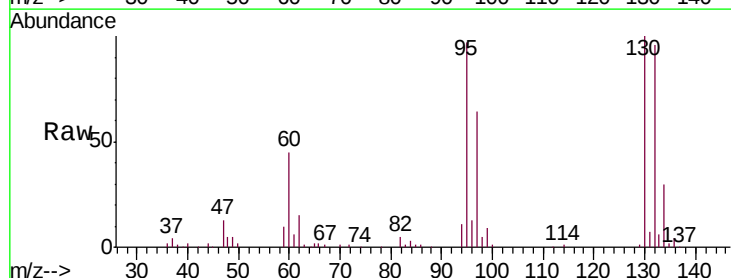
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.2  | 46.3  | 86.1  |
| 132 | 99.4  | 70.3  | 130.7 |
| 130 | 103.4 | 72.4  | 134.5 |

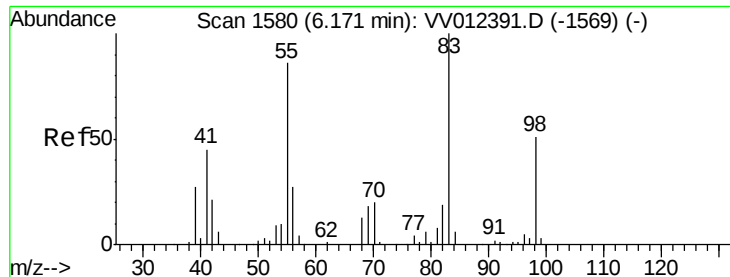
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

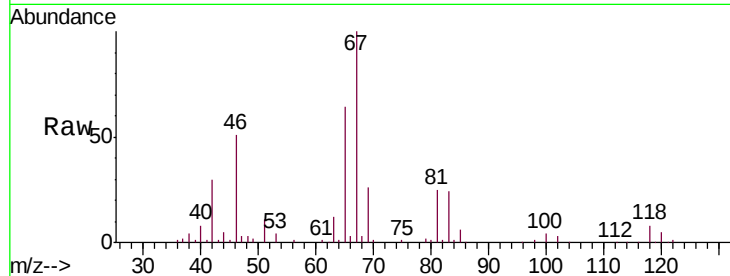




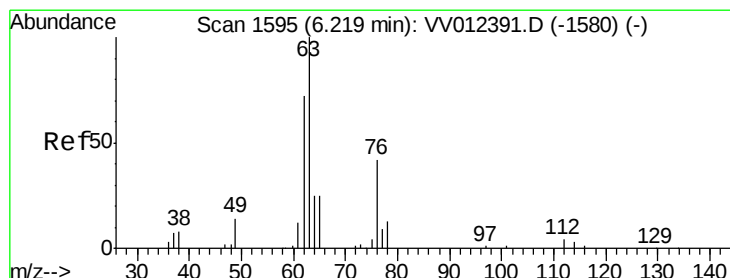
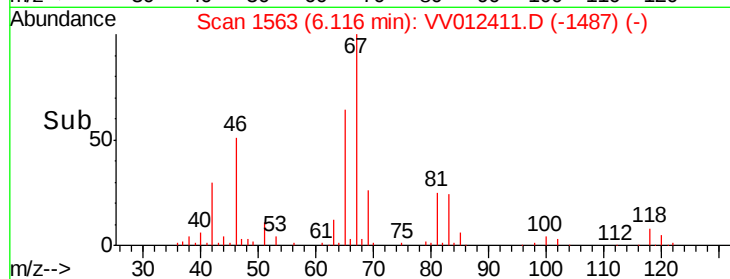
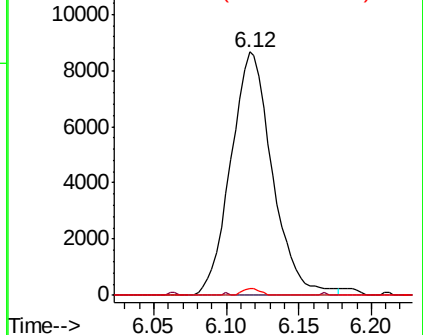
#35  
Methylcyclohexane  
Concen: 0.706 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.05 min  
Lab File: VV012411.D  
Acq: 26 Aug 2019 19:33

Instrument :  
MSVOA\_V  
ClientSampleId :  
GANM5MSD

Tgt Ion: 83 Resp: 17224  
Ion Ratio Lower Upper  
83 100  
55 0.1 64.6 97.0#  
98 1.2 39.0 58.4#

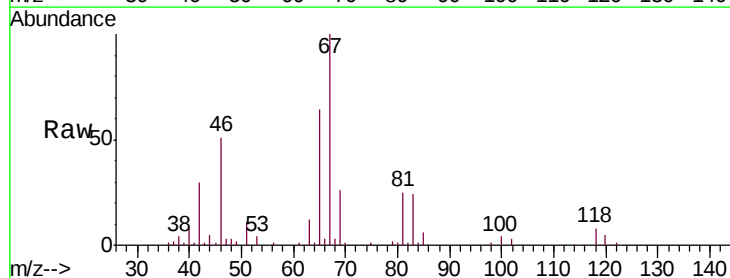


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

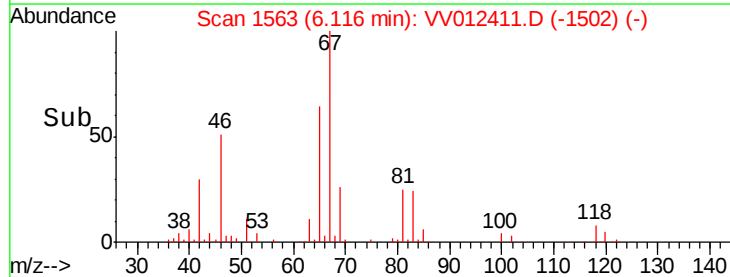
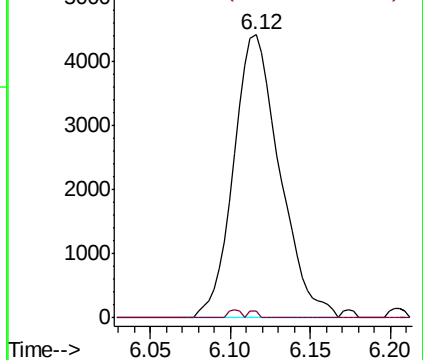


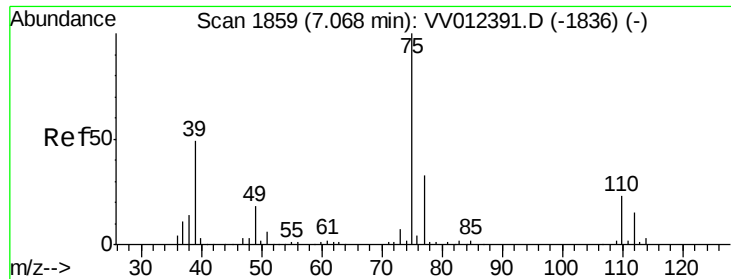
#37  
1,2-Dichloropropane  
Concen: 0.597 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.10 min  
Lab File: VV012411.D  
Acq: 26 Aug 2019 19:33

Tgt Ion: 63 Resp: 8714  
Ion Ratio Lower Upper  
63 100  
112 0.5 4.2 6.2#



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 112.10 (111.80 to 112.80): V

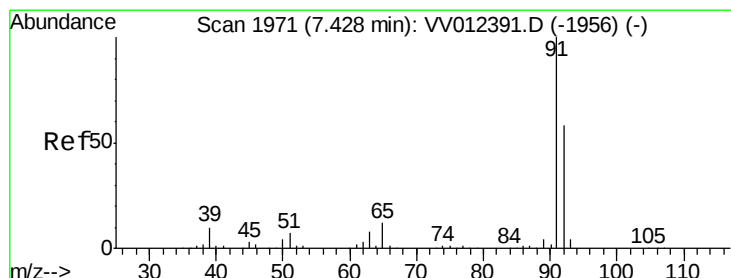
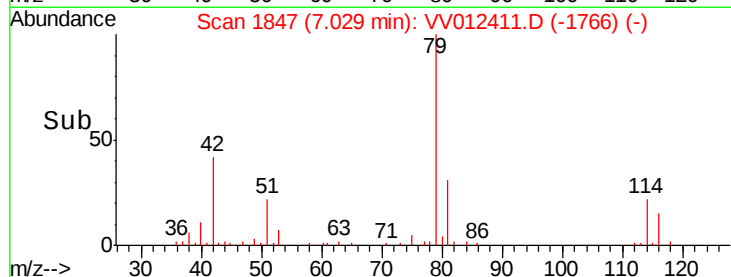
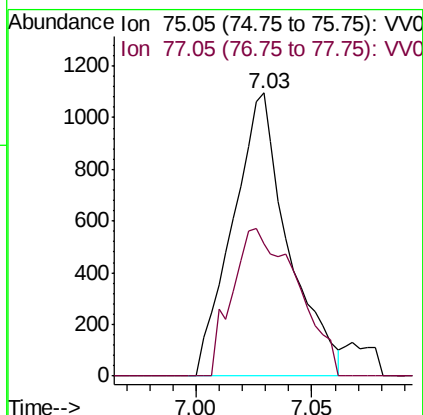
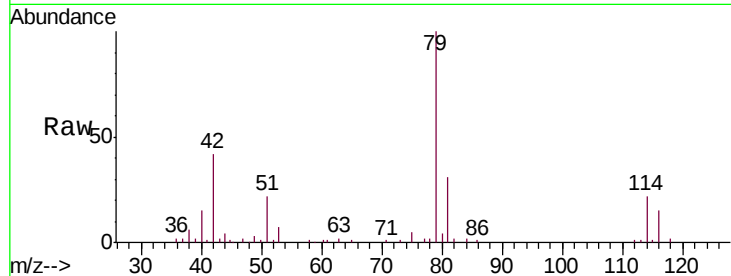




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.093 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV012411.D  
 Acq: 26 Aug 2019 19:33

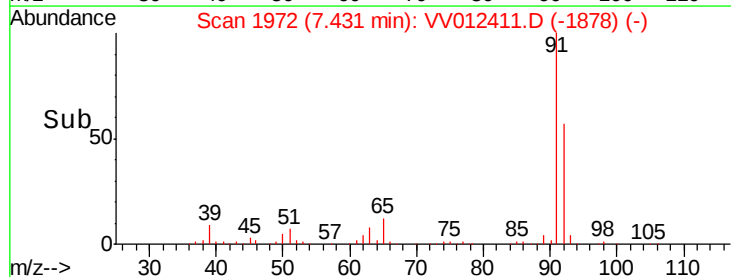
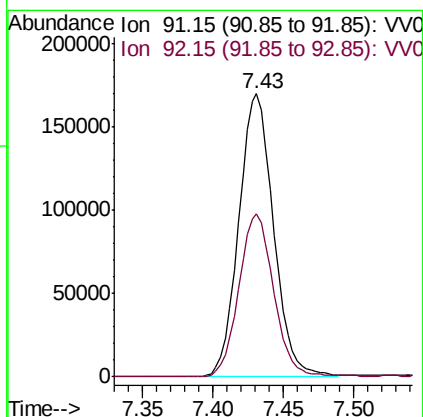
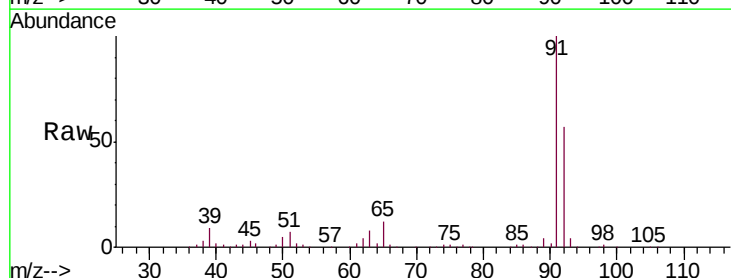
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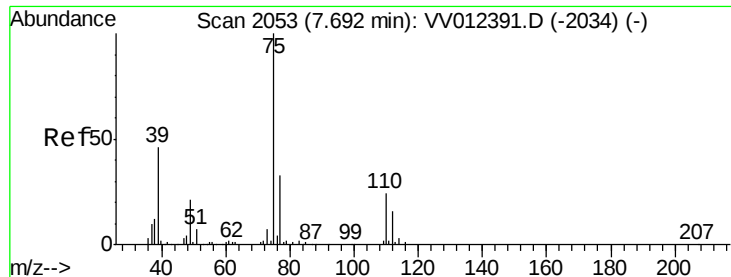
Tgt Ion: 75 Resp: 1821  
 Ion Ratio Lower Upper  
 75 100  
 77 46.9 23.2 43.2#



#42  
 Toluene  
 Concen: 4.992 ug/L  
 RT: 7.43 min Scan# 1972  
 Delta R.T. 0.00 min  
 Lab File: VV012411.D  
 Acq: 26 Aug 2019 19:33

Tgt Ion: 91 Resp: 293522  
 Ion Ratio Lower Upper  
 91 100  
 92 57.5 40.7 75.5





#44

trans-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV012411.D

Acq: 26 Aug 2019 19:33

Instrument :

MSVOA\_V

ClientSampleId :

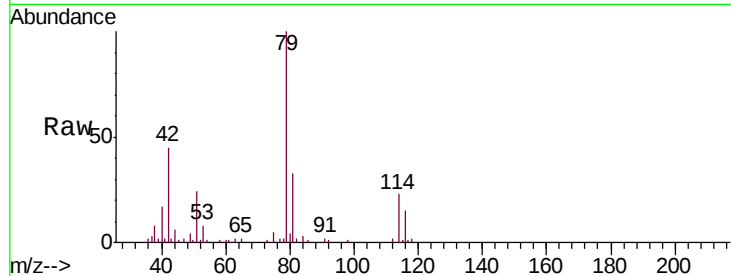
GANM5MSD

Tgt Ion: 75 Resp: 1147

Ion Ratio Lower Upper

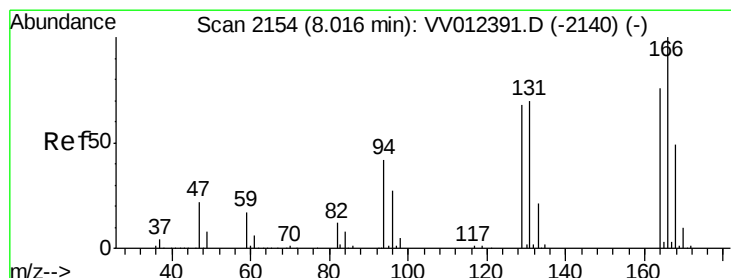
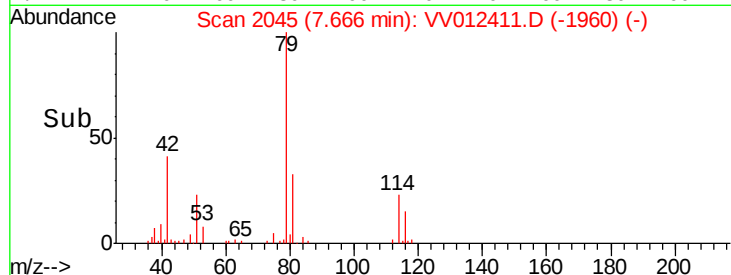
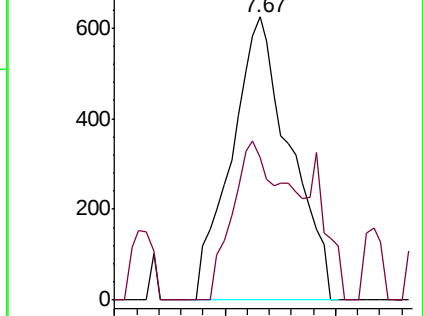
75 100

77 50.2 22.6 42.0#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#47

Tetrachloroethene

Concen: 0.182 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012411.D

Acq: 26 Aug 2019 19:33

Tgt Ion: 164 Resp: 2286

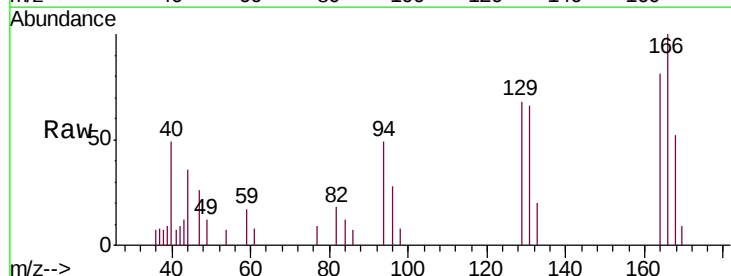
Ion Ratio Lower Upper

164 100

129 84.4 60.6 112.6

131 82.3 58.8 109.2

166 124.2 87.6 162.8

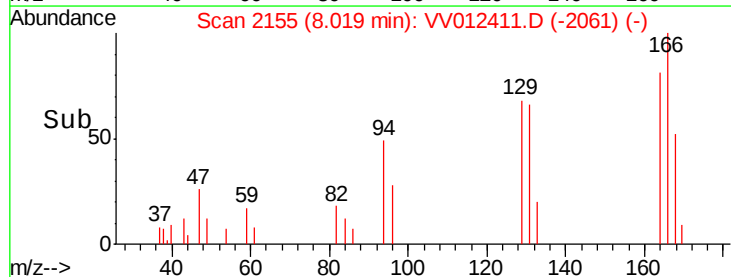
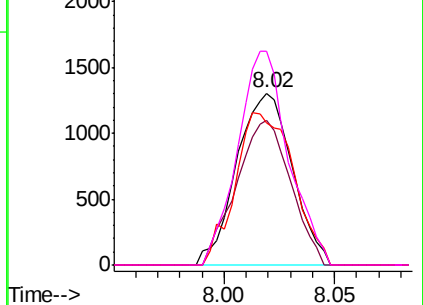


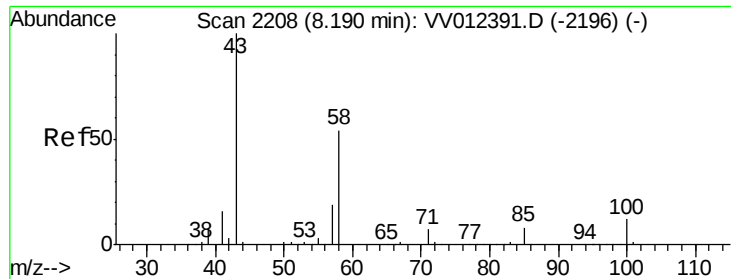
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 2.602 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.01 min

Lab File: VV012411.D

Acq: 26 Aug 2019 19:33

Instrument :

MSVOA\_V

ClientSampleId :

GANM5MSD

Tgt Ion: 43 Resp: 14668

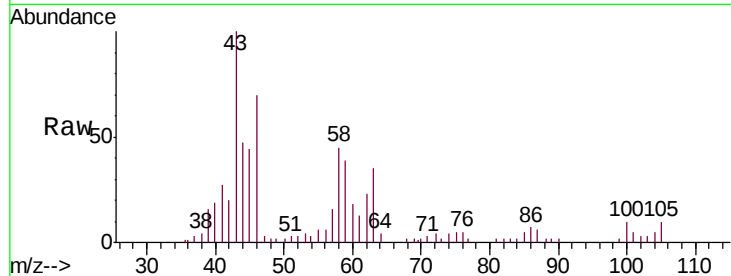
Ion Ratio Lower Upper

43 100

58 47.5 46.3 69.5

57 1.5 14.9 22.3#

100 10.3 9.7 14.5

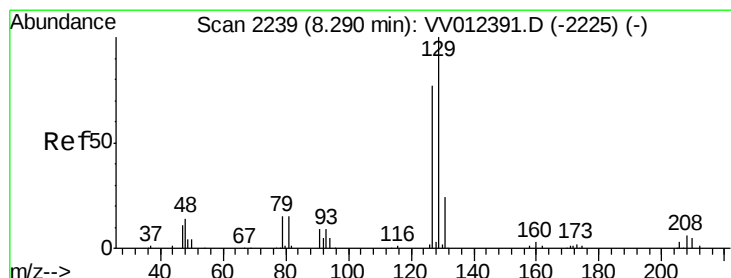
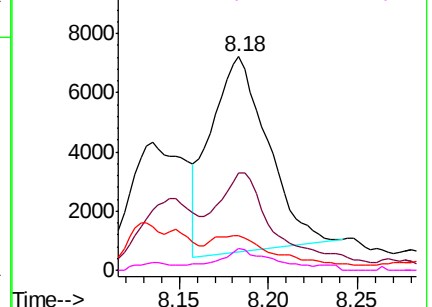
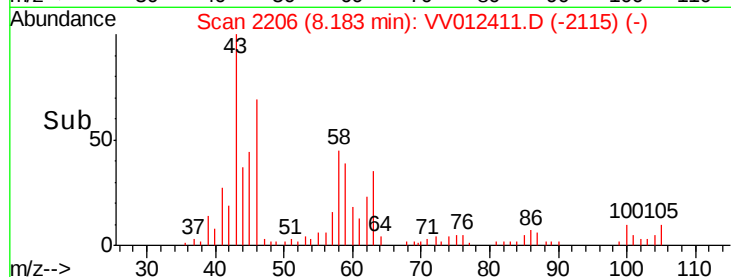


Abundance Ion 43.05 (42.75 to 43.75): VV012391.D (-2196) (-)

Ion 58.05 (57.75 to 58.75): VV012391.D (-2196) (-)

Ion 57.20 (56.90 to 57.90): VV012391.D (-2196) (-)

Ion 100.15 (99.85 to 100.85): VV012391.D (-2196) (-)



#49

Dibromochloromethane

Concen: 0.158 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.27 min

Lab File: VV012411.D

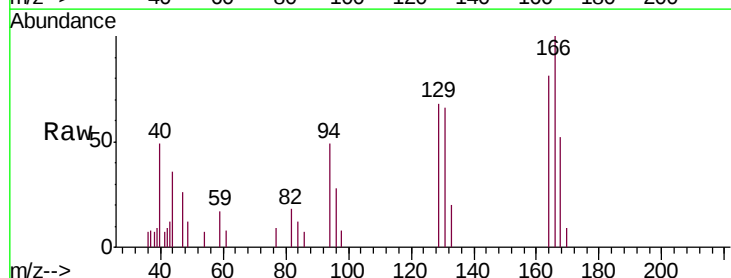
Acq: 26 Aug 2019 19:33

Tgt Ion: 129 Resp: 1791

Ion Ratio Lower Upper

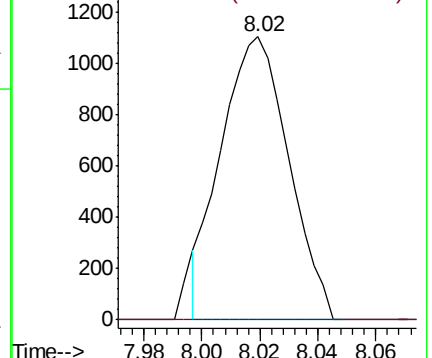
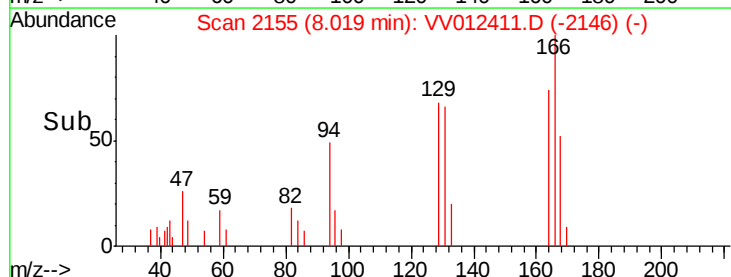
129 100

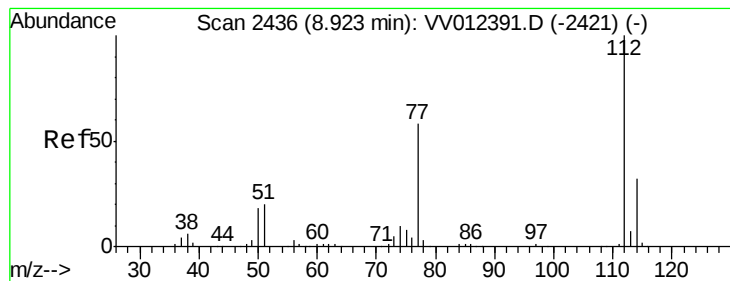
127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): VV012391.D (-2225) (-)

Ion 126.90 (126.60 to 127.60): VV012391.D (-2225) (-)





#51

Chlorobenzene

Concen: 5.318 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV012411.D

Acq: 26 Aug 2019 19:33

Instrument :

MSVOA\_V

ClientSampleId :

GANM5MSD

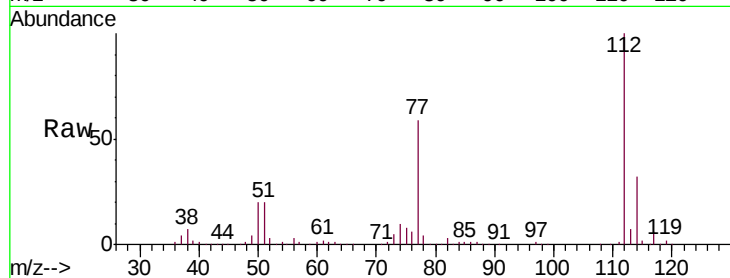
Tgt Ion:112 Resp: 204315

Ion Ratio Lower Upper

112 100

114 32.3 23.0 42.6

77 58.8 46.4 69.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0

