

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070620\  
 Data File : VV017347.D  
 Acq On : 06 Jul 2020 13:17  
 Operator : SY/MD  
 Sample : L3154-10  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H4267

Quant Time: Jul 07 01:17:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 07 01:14:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 164342   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 156784   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 77600    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 36953    | 3.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.00% |
| 7) Chloroethane-d5             | 1.58   | 69    | 33370    | 4.65     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.00% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 59997    | 3.20     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.00% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 114149   | 45.41    | ug/L | 0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 90.82% |
| 24) Chloroform-d               | 4.38   | 84    | 99925    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 55270    | 4.94     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.80% |
| 32) Benzene-d6                 | 5.08   | 84    | 174904   | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.00% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 54340    | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20% |
| 41) Toluene-d8                 | 7.34   | 98    | 154670   | 4.05     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 81.00% |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 20174    | 3.98     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 79.60% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 82248    | 42.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 85.12% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 39776    | 4.92     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.40% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 67469    | 4.70     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.00% |

## Target Compounds

| Target Compounds              | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|------|------|----------|-------|--------|--------|
| 5) Vinyl chloride             | 1.32 | 62   | 26863    | 2.491 | ug/L   | 96     |
| 8) Chloroethane               | 1.60 | 64   | 15969    | 2.679 | ug/L # | 53     |
| 12) 1,1-Dichloroethene        | 2.12 | 96   | 840      | 0.106 | ug/L # | 1      |
| 14) Carbon disulfide          | 2.31 | 76   | 1361     | 0.058 | ug/L # | 57     |
| 16) Methylene chloride        | 2.52 | 84   | 1339     | 0.159 | ug/L   | 90     |
| 18) trans-1,2-Dichloroethene  | 2.78 | 96   | 2740     | 0.328 | ug/L   | 98     |
| 19) 1,1-Dichloroethane        | 3.21 | 63   | 2951     | 0.157 | ug/L   | 93     |
| 22) cis-1,2-Dichloroethene    | 3.94 | 96   | 11601    | 1.015 | ug/L   | 96     |
| 25) Chloroform                | 4.40 | 83   | 2244     | 0.109 | ug/L   | 83     |
| 30) Cyclohexane               | 4.71 | 56   | 1820     | 0.102 | ug/L # | 54     |
| 33) Benzene                   | 5.13 | 78   | 6369     | 0.155 | ug/L   | 100    |
| 34) Trichloroethene           | 5.94 | 95   | 2041     | 0.170 | ug/L   | 86     |
| 35) Methylcyclohexane         | 6.10 | 83   | 14571    | 0.780 | ug/L # | 18     |
| 37) 1,2-Dichloropropane       | 6.09 | 63   | 7515     | 0.739 | ug/L # | 84     |
| 46) trans-1,3-Dichloropropene | 7.65 | 75   | 1253     | 0.096 | ug/L   | 87     |
| 47) 1,1,2-Trichloroethane     | 7.81 | 97   | 1862     | 0.258 | ug/L # | 22     |
| 50) 2-Hexanone                | 8.17 | 43   | 2733     | 0.654 | ug/L # | 43     |

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Jul 07 01:17:42 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jul 07 01:14:17 2020  
Response via : Initial Calibration

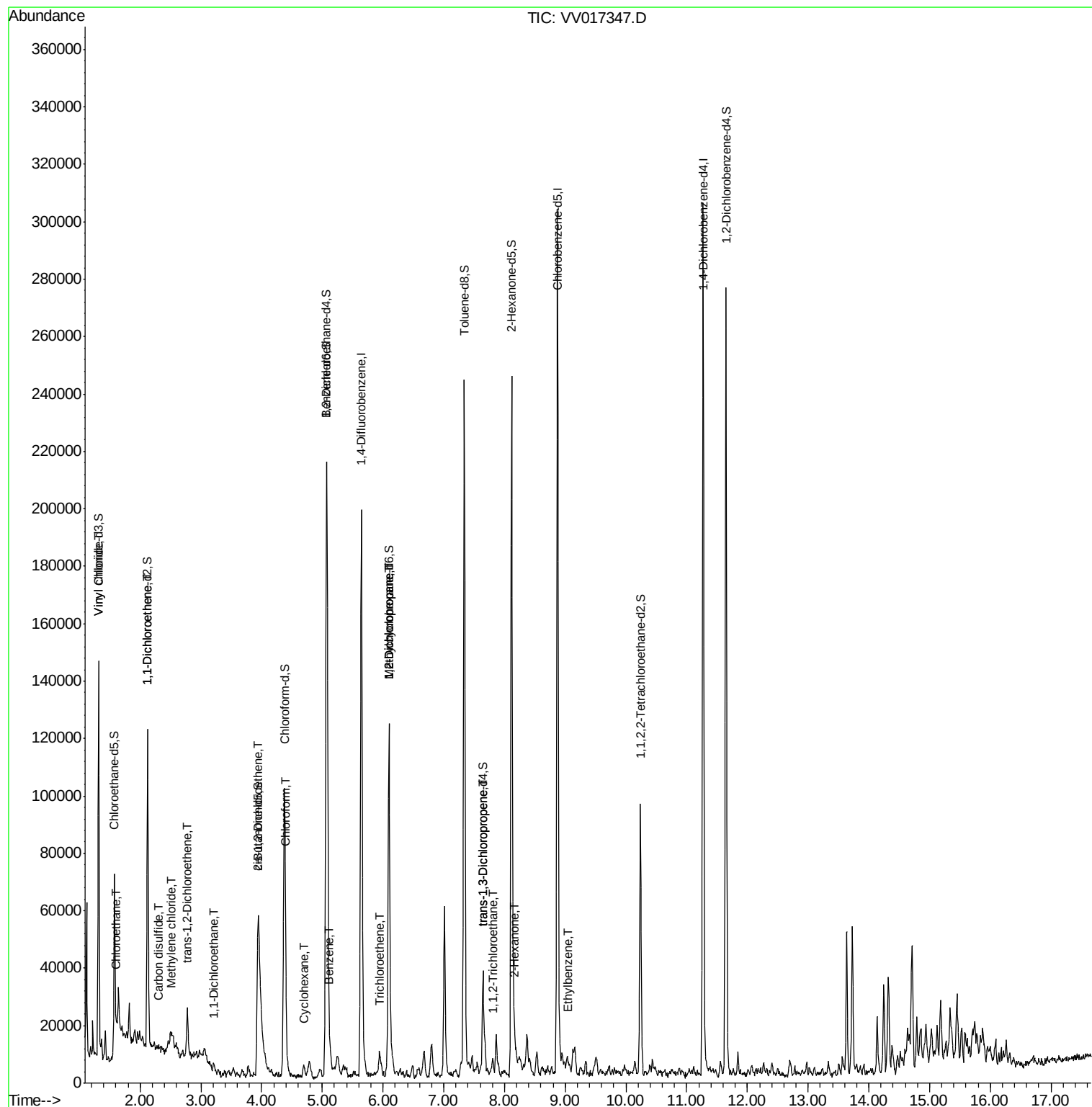
| Internal Standards | R.T. | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------|------|------|----------|-------|-------|----------|
| 54) Ethylbenzene   | 9.03 | 91   | 3297     | 0.065 | ug/L  | 88       |

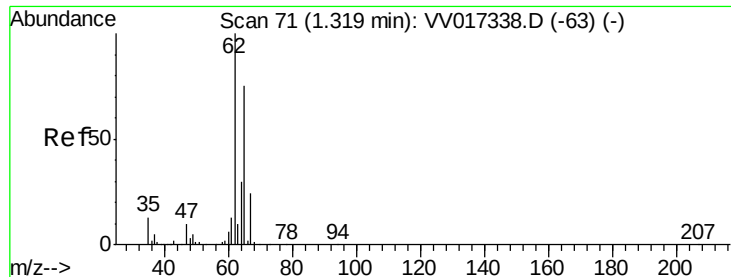
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.491 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

Instrument :

MSVOA\_V

ClientSampleId :

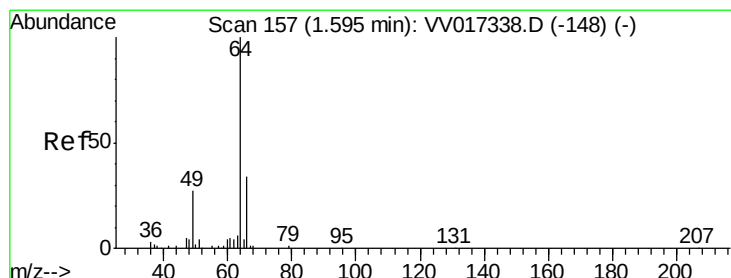
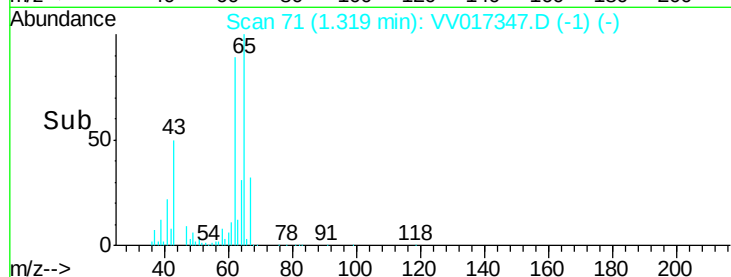
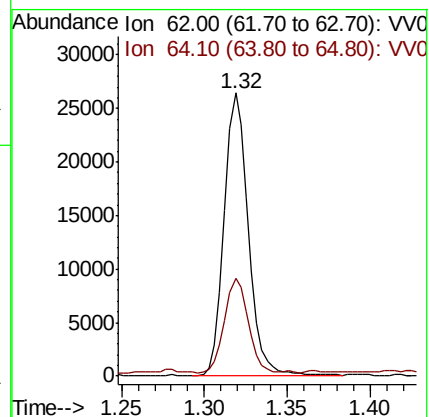
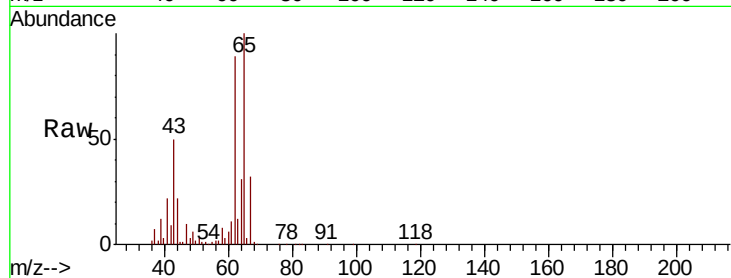
H4267

Tot Ion: 62 Resp: 26863

Ion Ratio Lower Upper

62 100

64 34.6 22.5 41.7



#8

Chloroethane

Concen: 2.679 ug/L

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VV017347.D

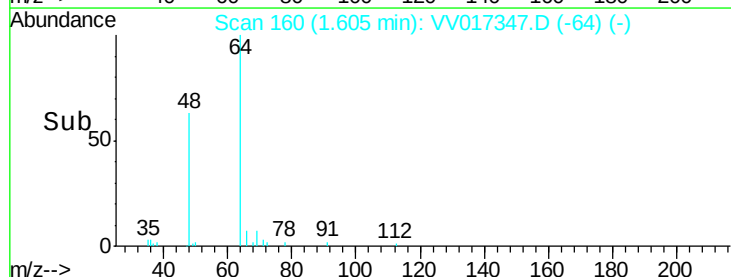
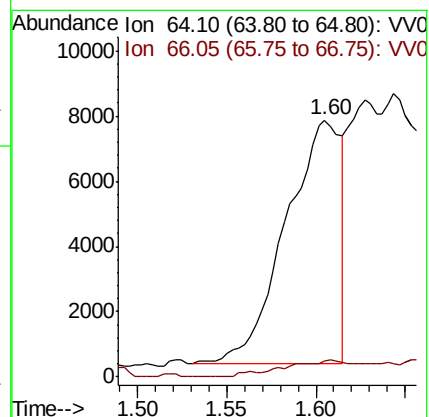
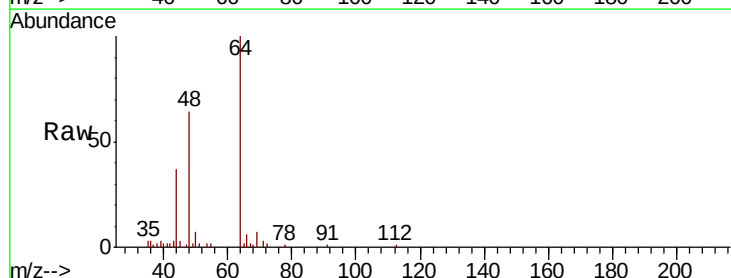
Acq: 06 Jul 2020 13:17

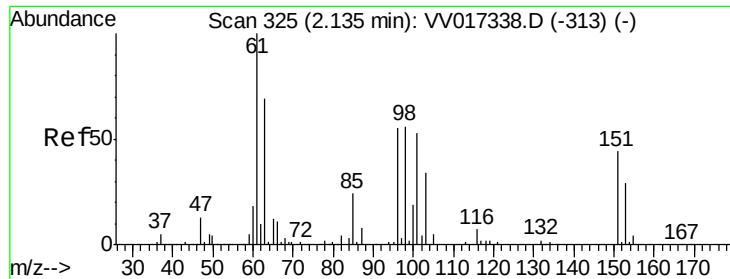
Tgt Ion: 64 Resp: 15969

Ion Ratio Lower Upper

64 100

66 6.3 22.8 42.4#

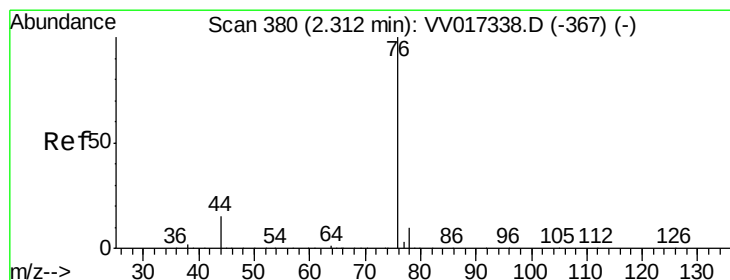
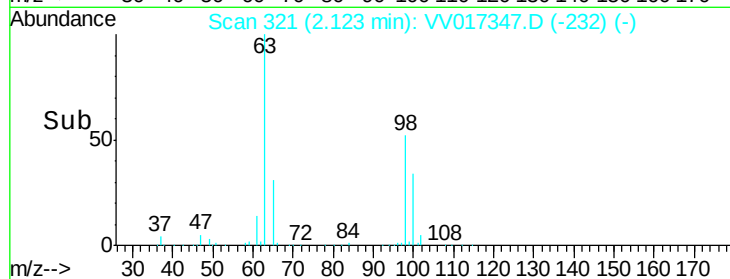
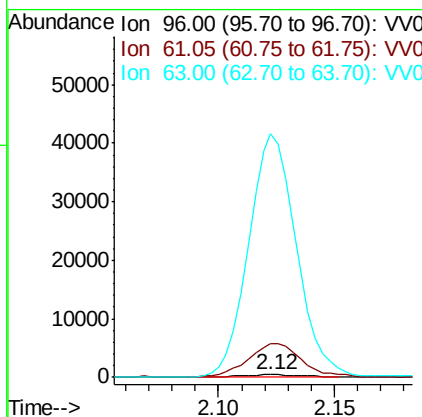
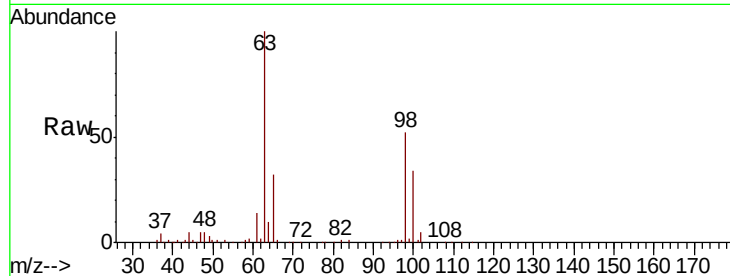




#12  
 1,1-Dichloroethene  
 Concen: 0.106 ug/L  
 RT: 2.12 min Scan# 321  
 Delta R.T. -0.01 min  
 Lab File: VV017347.D  
 Acq: 06 Jul 2020 13:17

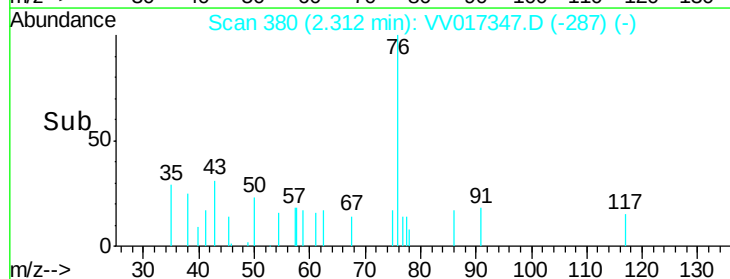
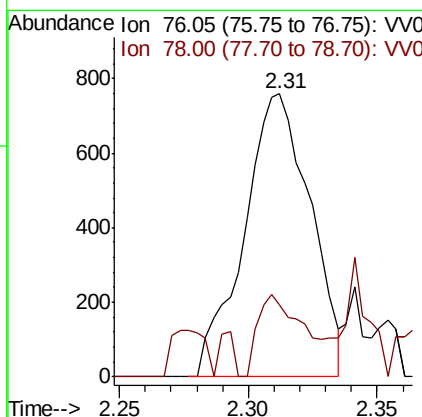
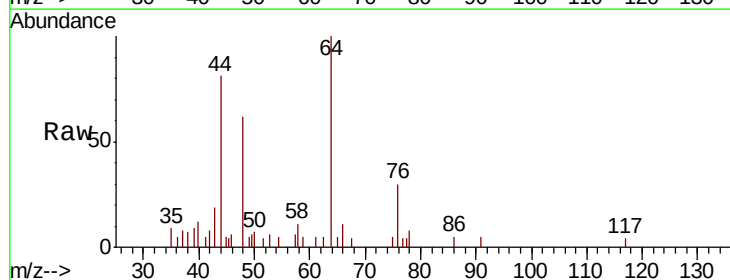
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 H4267

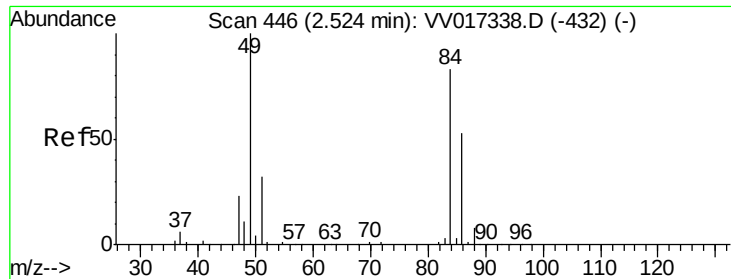
Tot Ion: 96 Resp: 840  
 Ion Ratio Lower Upper  
 96 100  
 61 1313.2 125.0 232.2#  
 63 9476.1 109.8 203.8#



#14  
 Carbon disulfide  
 Concen: 0.058 ug/L  
 RT: 2.31 min Scan# 380  
 Delta R.T. 0.00 min  
 Lab File: VV017347.D  
 Acq: 06 Jul 2020 13:17

Tgt Ion: 76 Resp: 1361  
 Ion Ratio Lower Upper  
 76 100  
 78 25.4 7.7 11.5#

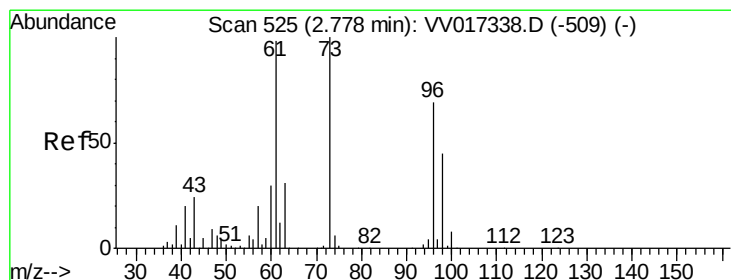
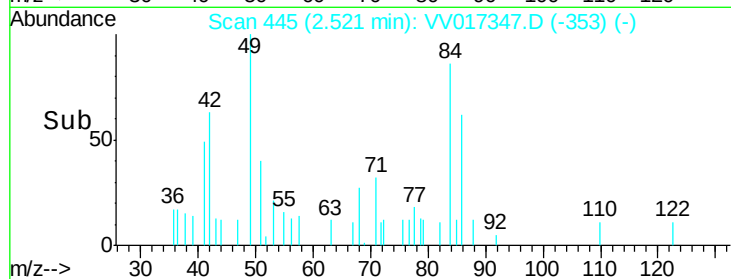
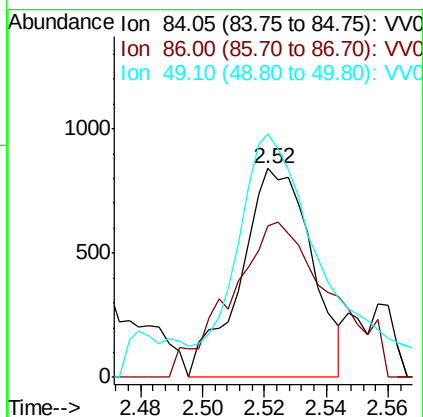
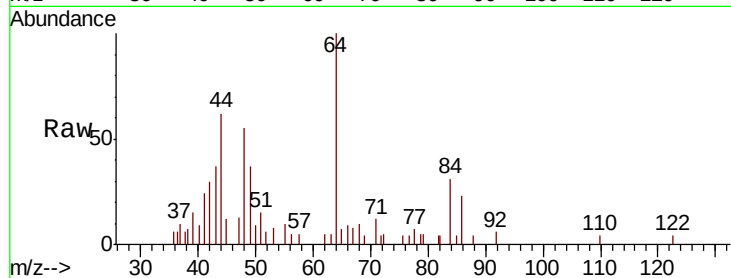




#16  
Methylene chloride  
Concen: 0.159 ug/L  
RT: 2.52 min Scan# 445  
Delta R.T. -0.00 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

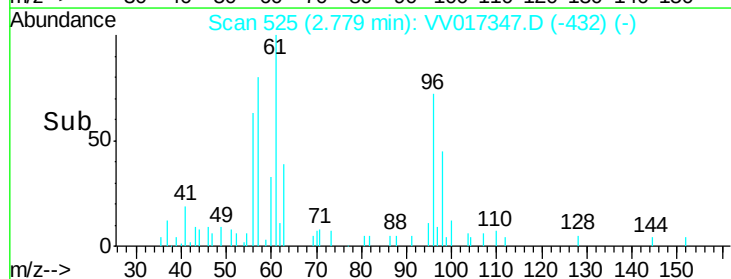
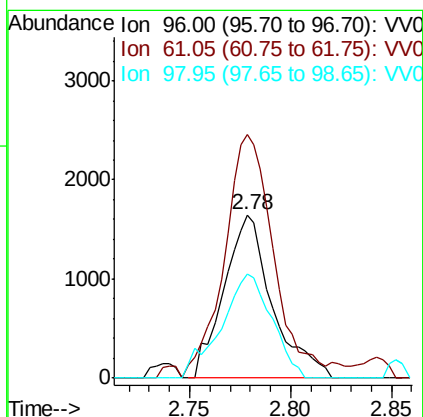
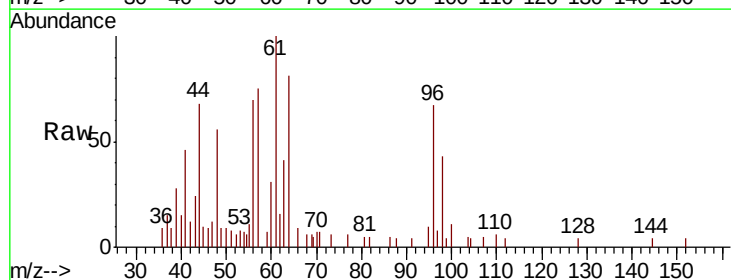
Instrument :  
MSVOA\_V  
ClientSampleId :  
H4267

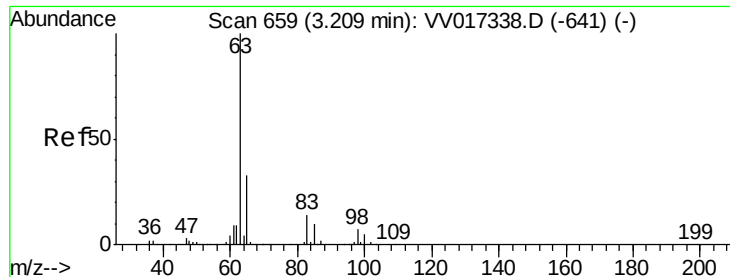
Tot Ion: 84 Resp: 1339  
Ion Ratio Lower Upper  
84 100  
86 72.6 45.8 85.0  
49 116.5 89.6 166.4



#18  
trans-1,2-Dichloroethene  
Concen: 0.328 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

Tgt Ion: 96 Resp: 2740  
Ion Ratio Lower Upper  
96 100  
61 149.1 102.3 189.9  
98 63.5 44.7 82.9





#19

1,1-Dichloroethane

Concen: 0.157 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

Instrument :

MSVOA\_V

ClientSampleId :

H4267

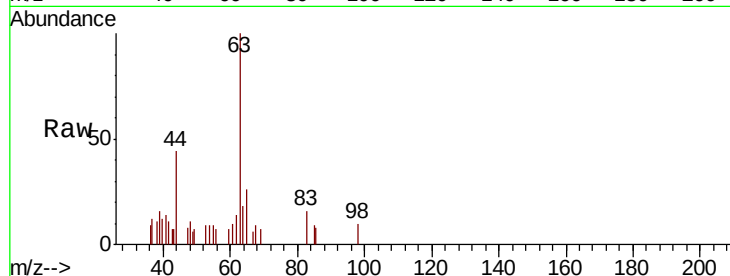
Tot Ion: 63 Resp: 2951

Ion Ratio Lower Upper

63 100

65 26.5 21.8 40.4

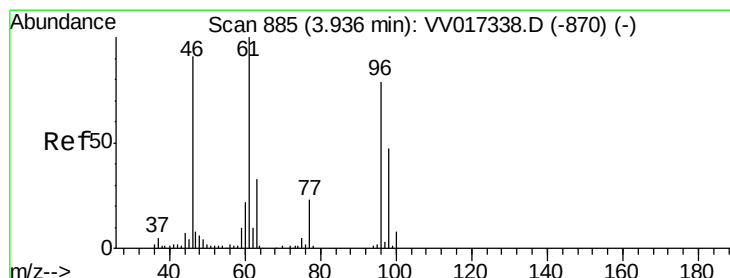
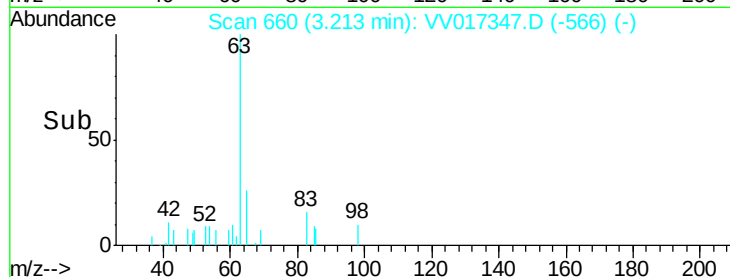
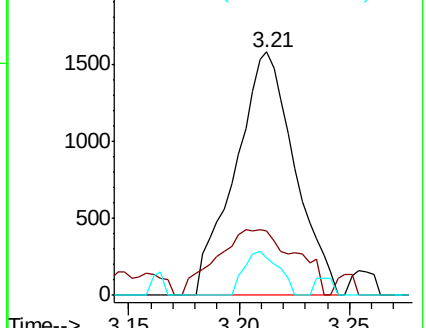
83 15.6 9.7 17.9



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 1.015 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

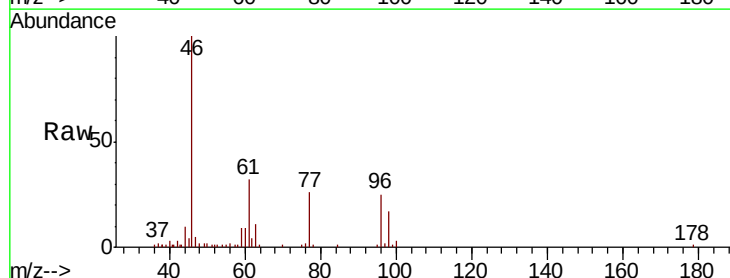
Tgt Ion: 96 Resp: 11601

Ion Ratio Lower Upper

96 100

61 125.5 91.0 169.0

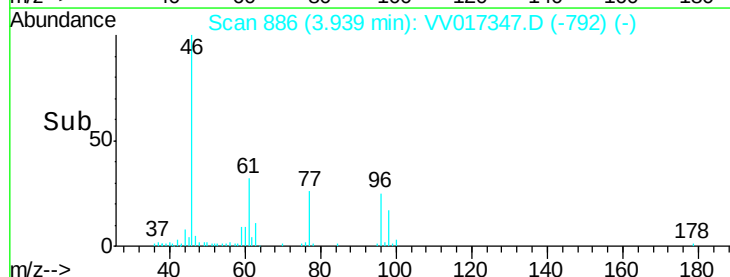
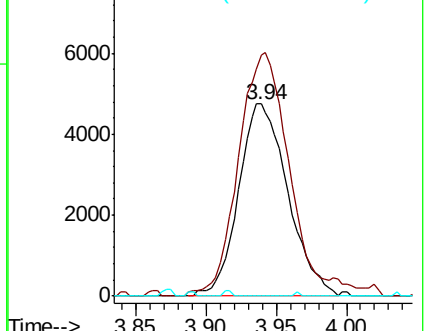
68 0.0 0.0 0.0

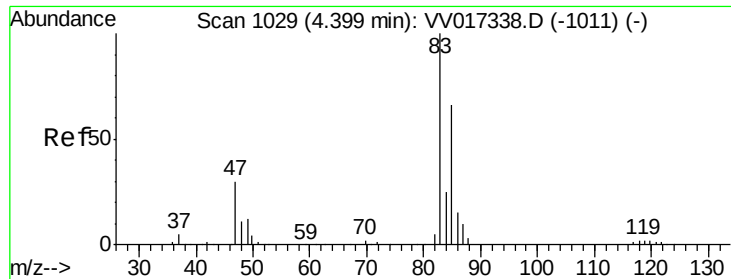


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

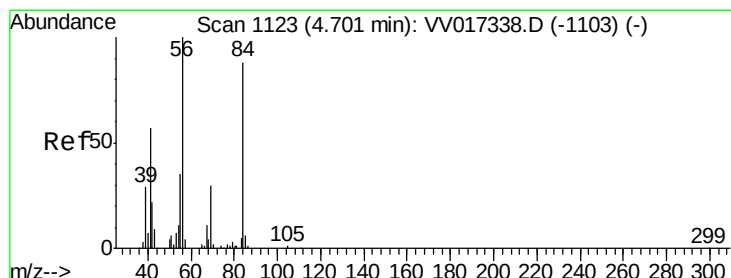
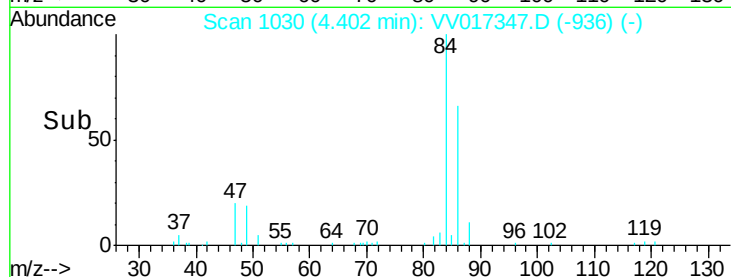
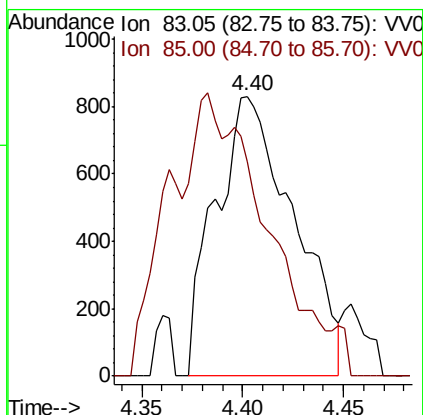
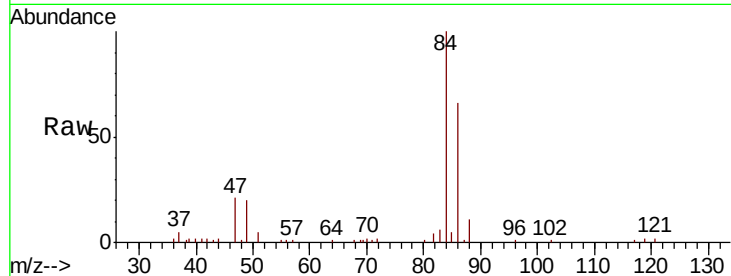




#25  
Chloroform  
Concen: 0.109 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

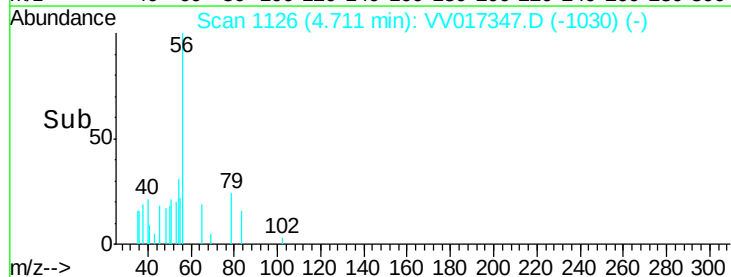
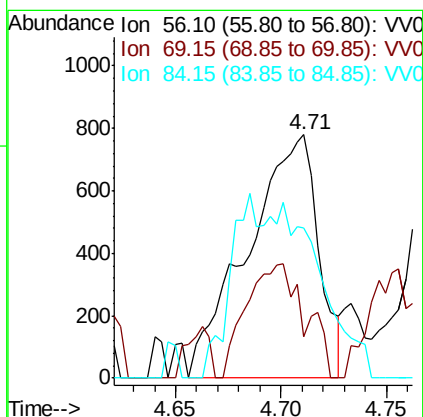
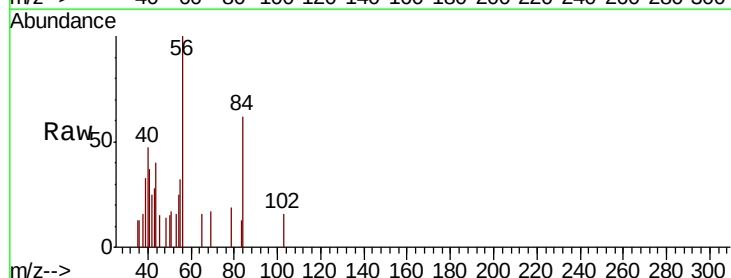
Instrument :  
MSVOA\_V  
ClientSampleId :  
H4267

Tot Ion: 83 Resp: 2244  
Ion Ratio Lower Upper  
83 100  
85 76.7 44.2 82.2

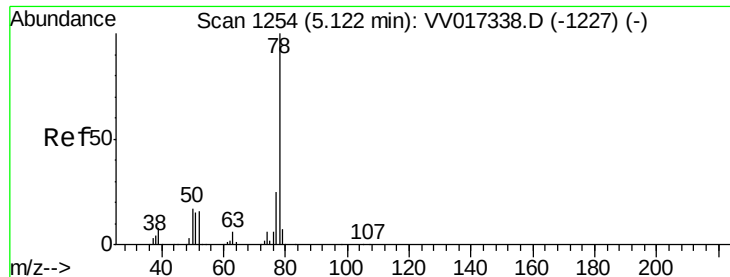


#30  
Cyclohexane  
Concen: 0.102 ug/L  
RT: 4.71 min Scan# 1126  
Delta R.T. 0.01 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

Tgt Ion: 56 Resp: 1820  
Ion Ratio Lower Upper  
56 100  
69 39.1 24.4 36.6#  
84 34.6 69.9 104.9#







#33

Benzene

Concen: 0.155 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

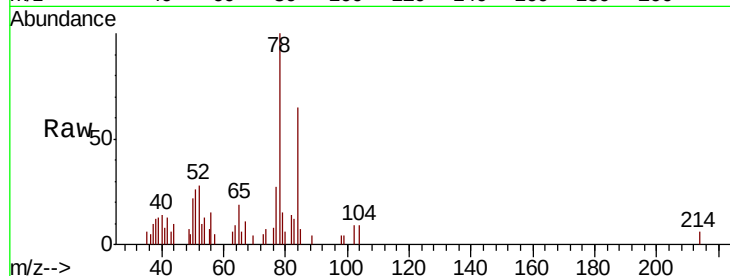
Instrument :

MSVOA\_V

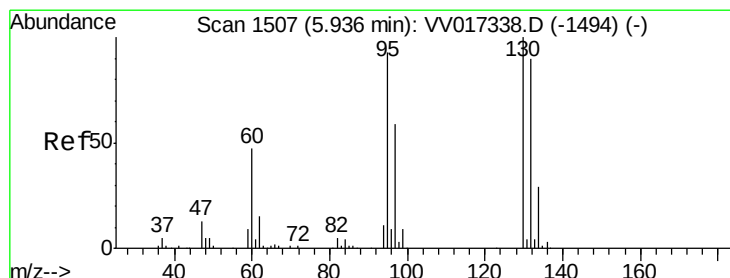
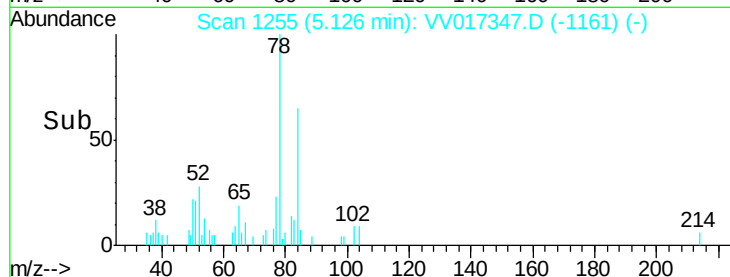
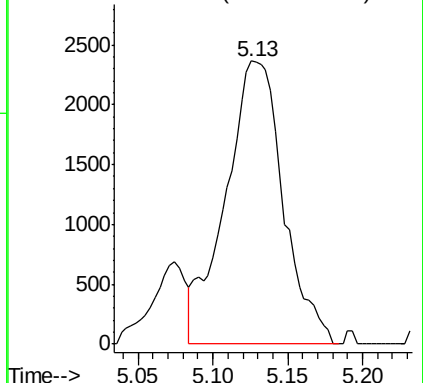
ClientSampleId :

H4267

Tgt Ion: 78 Resp: 6369



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.170 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

Tgt Ion: 95 Resp: 2041

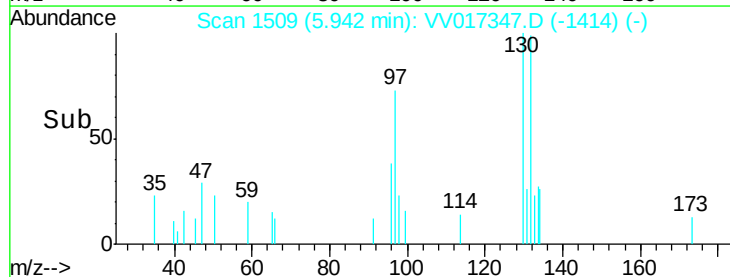
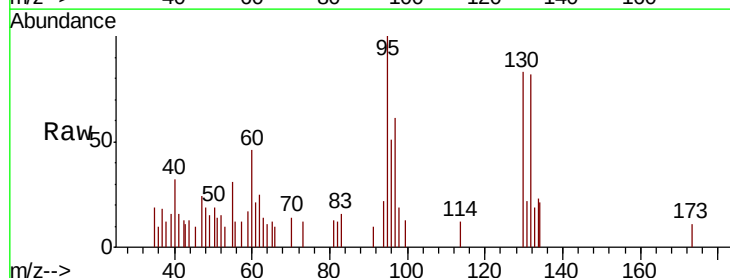
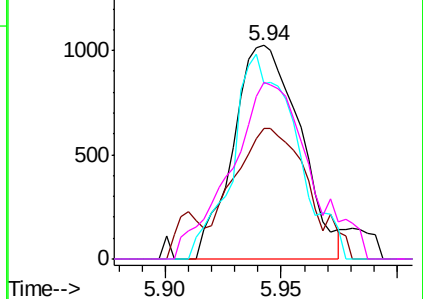
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 60.9  | 45.3  | 84.1  |
| 132 | 82.3  | 68.8  | 127.8 |
| 130 | 82.8  | 70.2  | 130.4 |

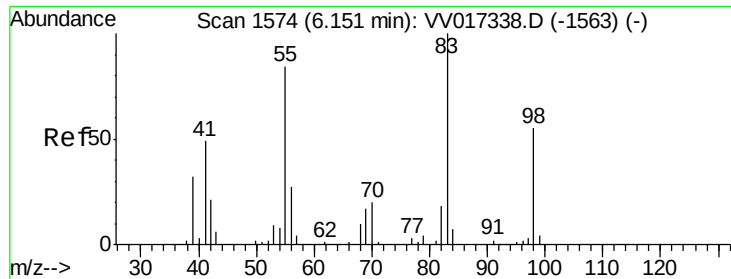
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

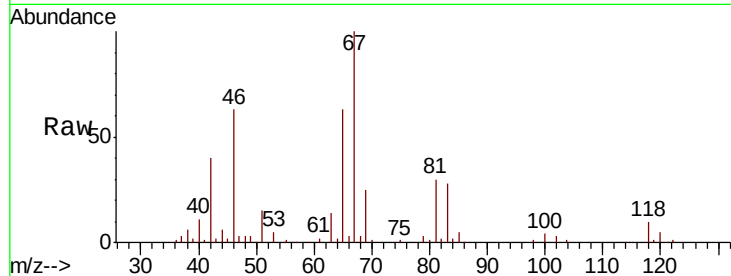




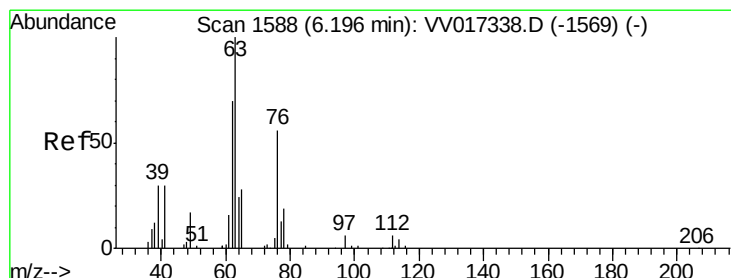
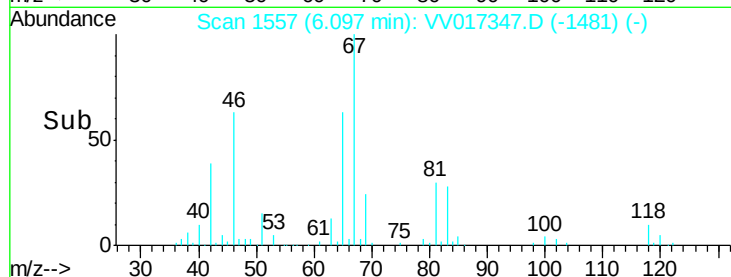
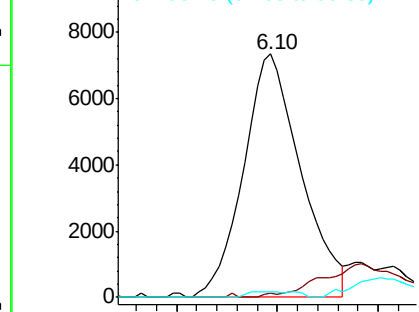
#35  
Methvlcvclohexane  
Concen: 0.780 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.05 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

Instrument :  
MSVOA\_V  
ClientSampleId :  
H4267

Tot Ion: 83 Resp: 14571  
Ion Ratio Lower Upper  
83 100  
55 0.0 63.6 95.4#  
98 1.4 38.8 58.2#

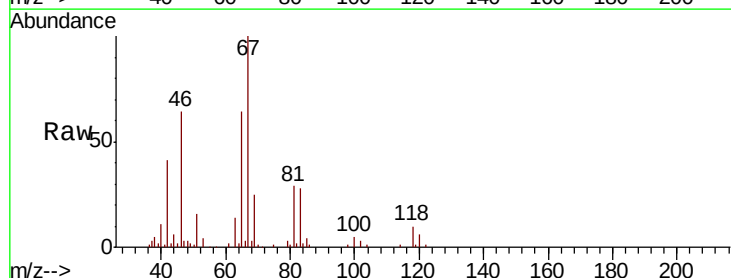


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

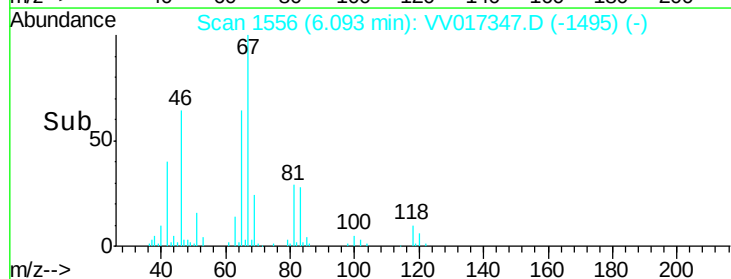
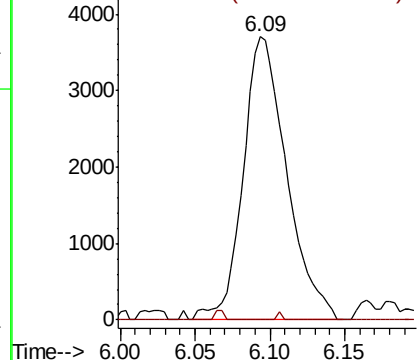


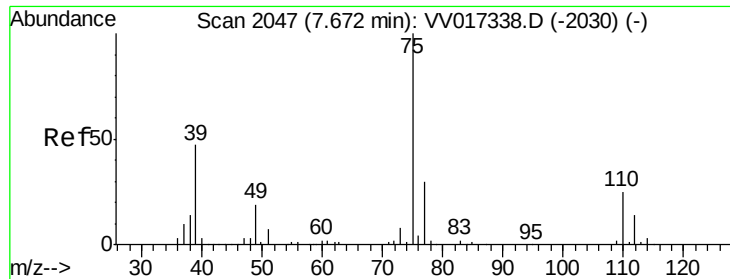
#37  
1,2-Dichloropropane  
Concen: 0.739 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.10 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

Tgt Ion: 63 Resp: 7515  
Ion Ratio Lower Upper  
63 100  
112 0.3 4.4 6.6#



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





#46

trans-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

Instrument :

MSVOA\_V

ClientSampleId :

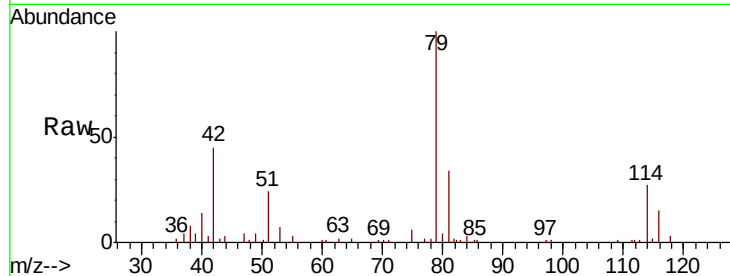
H4267

Tot Ion: 75 Resp: 1253

Ion Ratio Lower Upper

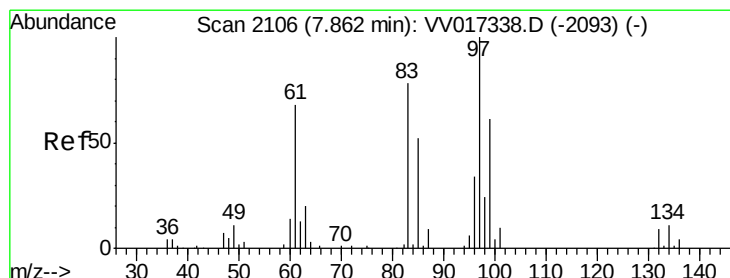
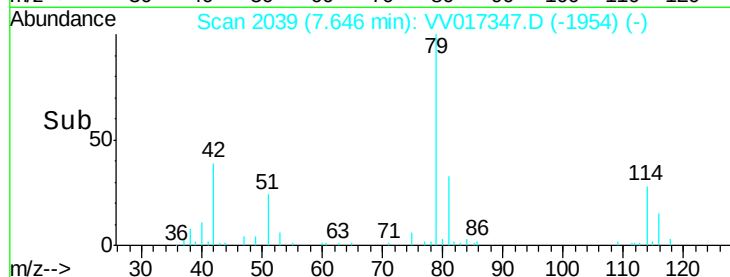
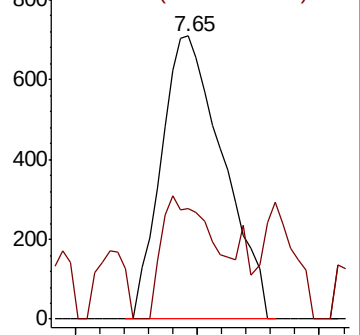
75 100

77 39.2 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#47

1,1,2-Trichloroethane

Concen: 0.258 ug/L

RT: 7.81 min Scan# 2090

Delta R.T. -0.05 min

Lab File: VV017347.D

Acq: 06 Jul 2020 13:17

Tgt Ion: 97 Resp: 1862

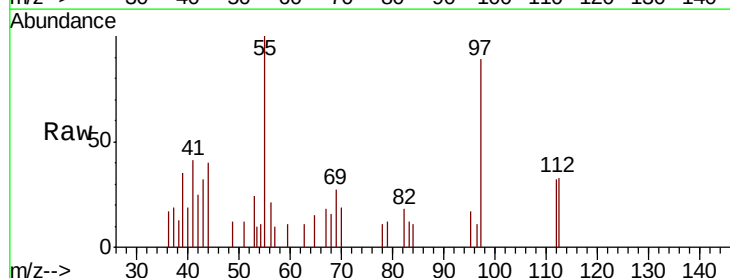
Ion Ratio Lower Upper

97 100

99 0.0 43.6 81.0#

83 14.0 57.4 106.6#

85 0.0 38.8 72.0#

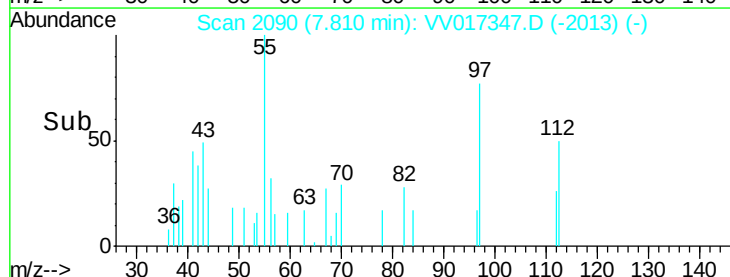
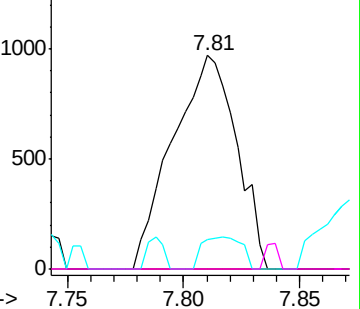


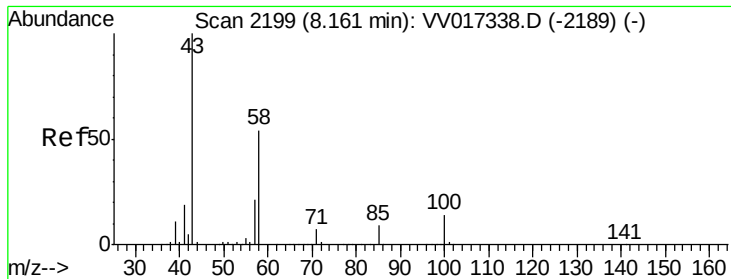
Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

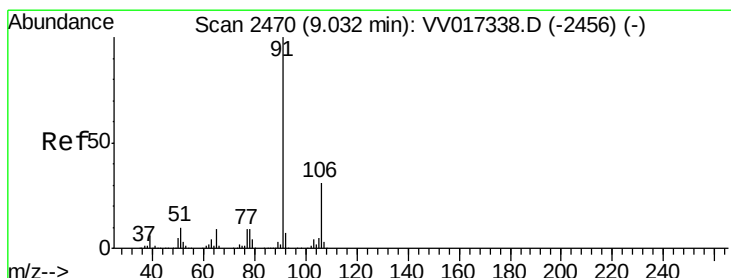
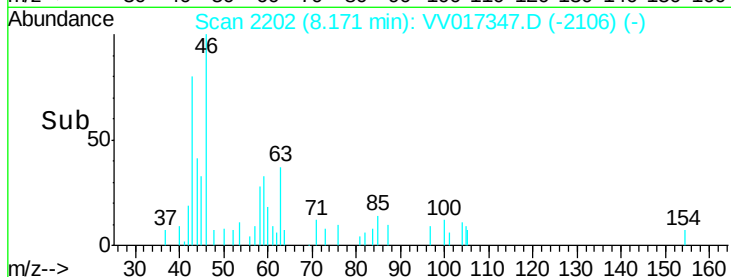
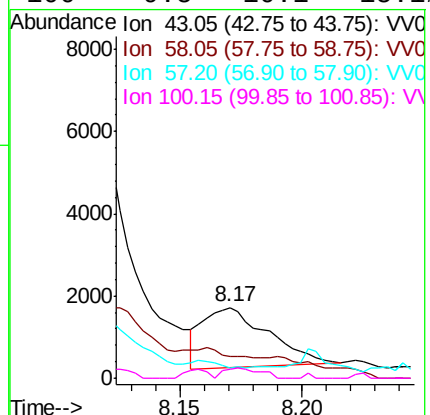
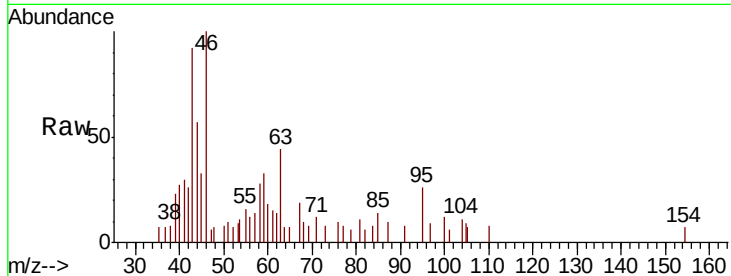




#50  
2-Hexanone  
Concen: 0.654 ug/L  
RT: 8.17 min Scan# 2202  
Delta R.T. 0.01 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

Instrument :  
MSVOA\_V  
ClientSampleId :  
H4267

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 2733  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 41.6  | 62.4# |
| 57       | 0.0   | 15.4  | 23.0# |
| 100      | 9.5   | 10.1  | 15.1# |



#54  
Ethylbenzene  
Concen: 0.065 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. 0.00 min  
Lab File: VV017347.D  
Acq: 06 Jul 2020 13:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 3297  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 23.8  | 21.1  | 39.1  |

