

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122220\  
 Data File : VV019795.D  
 Acq On : 22 Dec 2020 15:08  
 Operator : SY/MD  
 Sample : L5173-08  
 Misc : 5.56g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4R4

Quant Time: Dec 23 01:06:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 23 01:05:06 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 1015488  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 969637   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.26 | 152  | 446596   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 392140   | 53.85    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 107.70%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 262246   | 45.66    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.32%   |
| 11) 1,1-Dichloroethene-d2      | 2.08    | 63    | 559867   | 41.43    | ug/L | -0.03    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.86%   |
| 21) 2-Butanone-d5              | 3.91    | 46    | 532285   | 134.49   | ug/L | 0.03     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 134.49%# |
| 24) Chloroform-d               | 4.35    | 84    | 696006   | 53.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.06%  |
| 26) 1,2-Dichloroethane-d4      | 5.04    | 65    | 493290   | 57.52    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 115.04%  |
| 32) Benzene-d6                 | 5.05    | 84    | 1447689  | 55.98    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 111.96%  |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 459165   | 56.68    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 113.36%  |
| 41) Toluene-d8                 | 7.32    | 98    | 1262123  | 54.21    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.42%  |
| 43) trans-1,3-Dichloropropene- | 7.63    | 79    | 217472   | 47.20    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.40%   |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 363684   | 114.39   | ug/L | 0.04     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 114.39%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 537414   | 49.05    | ug/L | 0.01     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.10%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.64   | 152   | 424638   | 50.87    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.74%  |

## Target Compounds

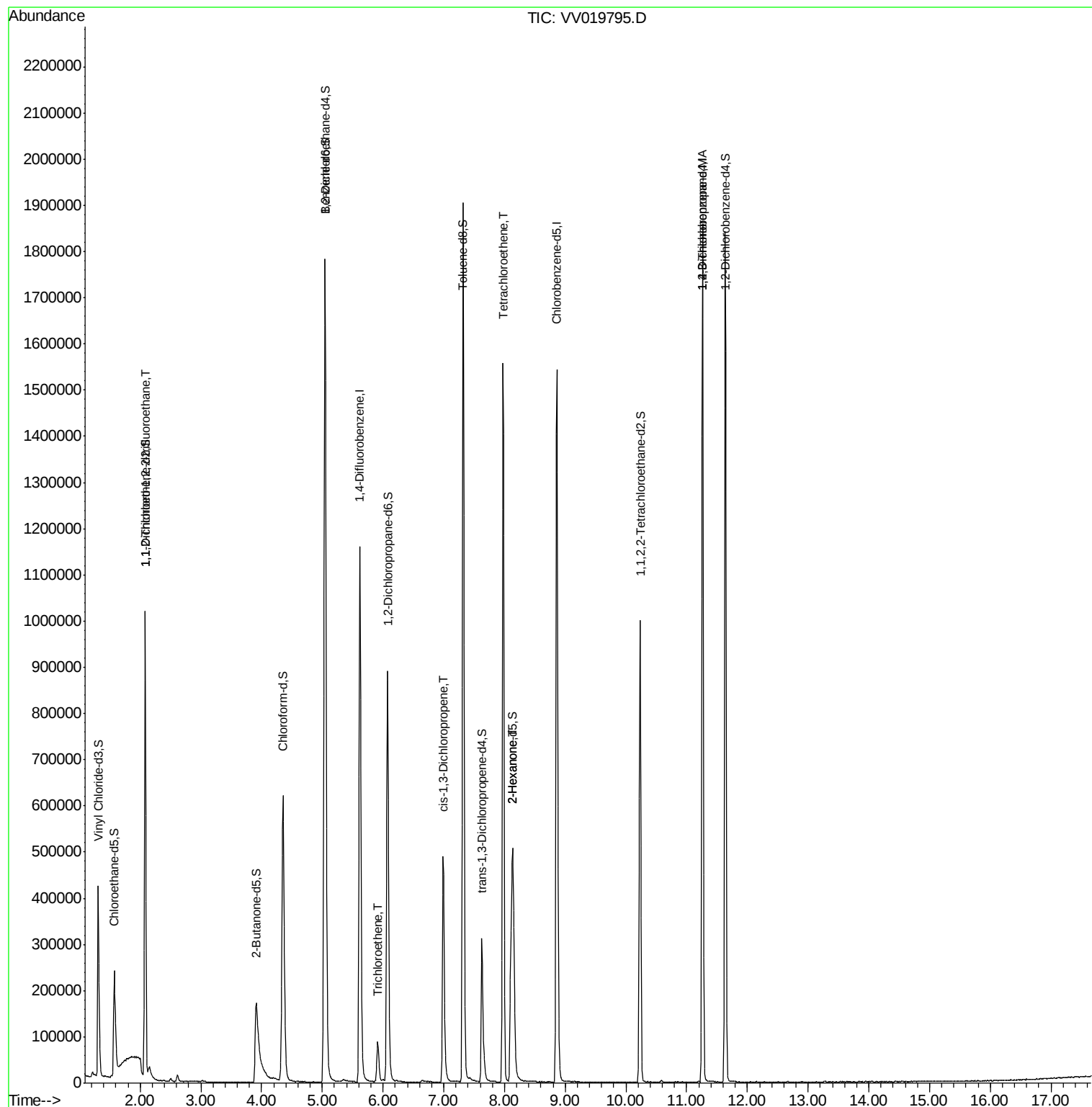
|                                |       |     |        |              | Ovalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.08  | 101 | 4671   | 0.792 ug/L # | 24     |
| 34) Trichloroethene            | 5.92  | 95  | 22711  | 3.034 ug/L   | 95     |
| 39) cis-1,3-Dichloropropene    | 6.99  | 75  | 14905  | 1.213 ug/L # | 81     |
| 46) Tetrachloroethene          | 7.98  | 164 | 327007 | 63.130 ug/L  | 99     |
| 48) 2-Hexanone                 | 8.14  | 43  | 53909  | 6.654 ug/L # | 51     |
| 59) 1,2,3-Trichloropropane     | 11.26 | 75  | 61839  | 6.718 ug/L   | 97     |

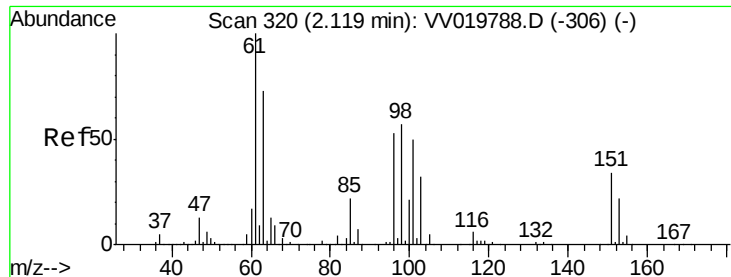
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4R4

Quant Time: Dec 23 01:06:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Dec 23 01:05:06 2020  
Response via : Initial Calibration





#10

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

Concen: 0.792 ug/L

RT: 2.08 min Scan# 309

Delta R.T. -0.04 min

Lab File: VV019795.D

Acq: 22 Dec 2020 15:08

Instrument :

MSVOA\_V

ClientSampleId :

BG4R4

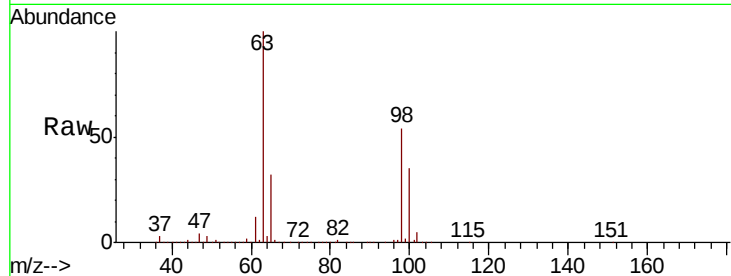
Tot Ion:101 Resp: 4671

Ion Ratio Lower Upper

101 100

85 1.6 35.0 52.4#

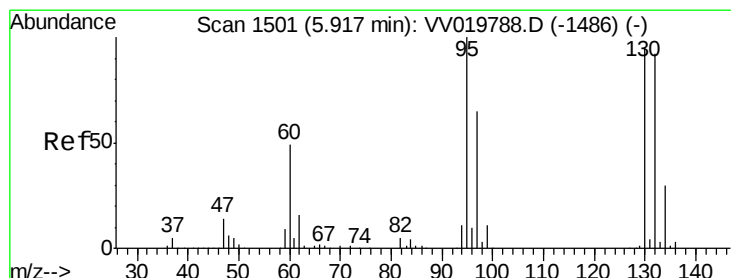
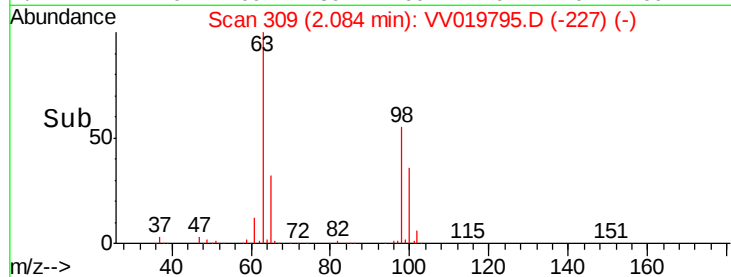
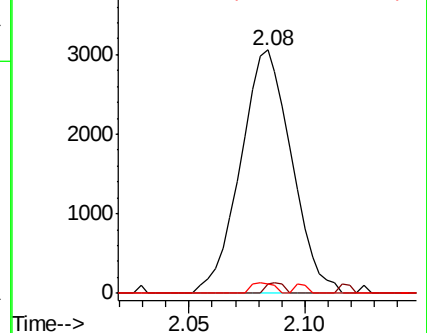
151 1.9 55.8 83.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#34

Trichloroethene

Concen: 3.034 ug/L

RT: 5.92 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VV019795.D

Acq: 22 Dec 2020 15:08

Tgt Ion: 95 Resp: 22711

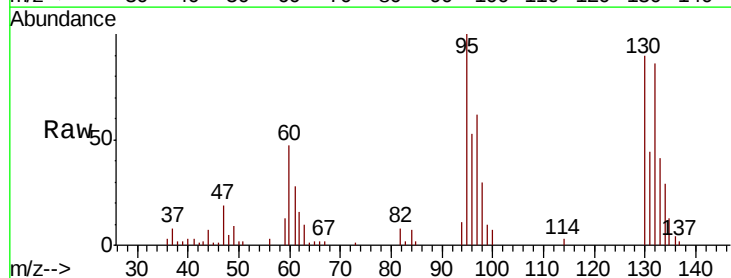
Ion Ratio Lower Upper

95 100

97 61.5 44.4 82.4

132 86.0 64.3 119.3

130 90.5 67.8 125.8

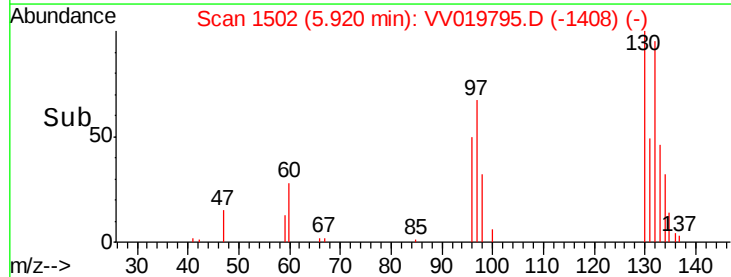
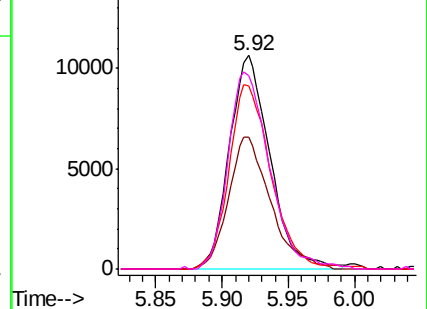


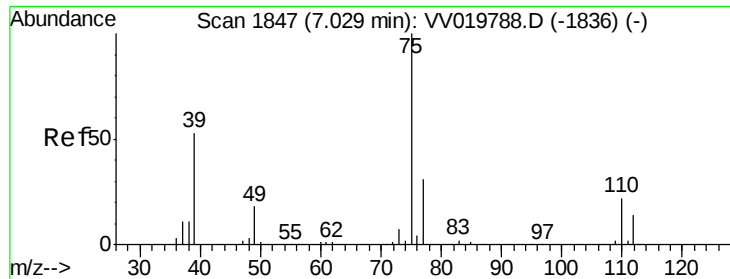
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





#39

cis-1,3-Dichloropropene

Concen: 1.213 ug/L

RT: 6.99 min Scan# 1835

Delta R.T. -0.04 min

Lab File: VV019795.D

Acq: 22 Dec 2020 15:08

Instrument :

MSVOA\_V

ClientSampled :

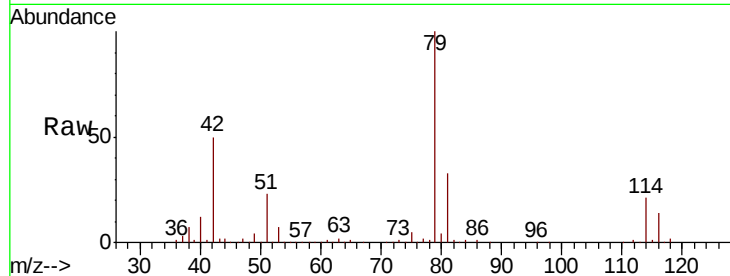
BG4R4

Tot Ion: 75 Resp: 14905

Ion Ratio Lower Upper

75 100

77 42.7 22.4 41.6#



Abundance Ion 75.00 (74.70 to 75.70): VV019788.D (-1836) (-)

Ion 77.00 (76.70 to 77.70): VV019788.D (-1836) (-)

6.99

8000

6000

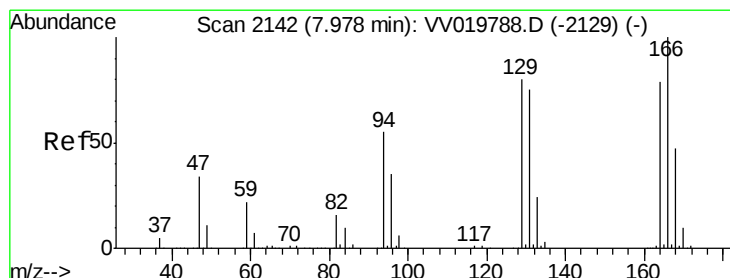
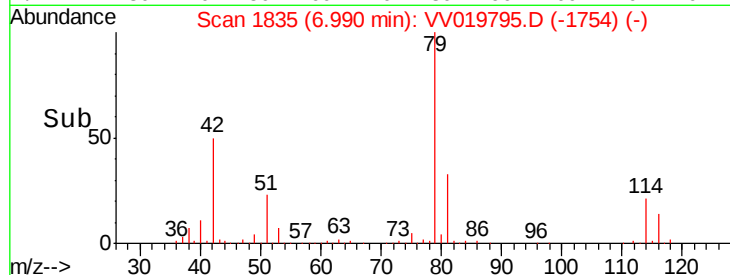
4000

2000

0

6.90 6.95 7.00 7.05 7.10

Time-->



#46

Tetrachloroethene

Concen: 63.130 ug/L

RT: 7.98 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VV019795.D

Acq: 22 Dec 2020 15:08

Tgt Ion:164 Resp: 327007

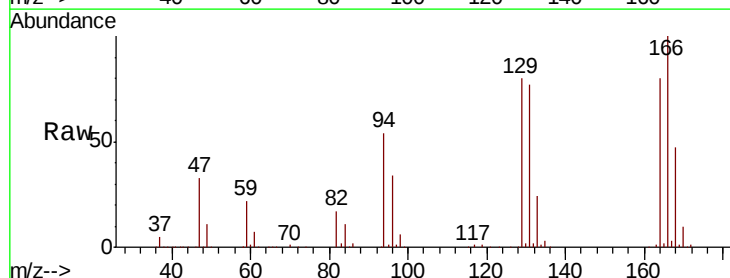
Ion Ratio Lower Upper

164 100

129 99.3 70.6 131.0

131 96.1 68.0 126.4

166 124.6 86.9 161.5



Abundance Ion 164.00 (163.70 to 164.70): VV019788.D (-2129) (-)

Ion 129.00 (128.70 to 129.70): VV019788.D (-2129) (-)

Ion 131.00 (130.70 to 131.70): VV019788.D (-2129) (-)

Ion 166.00 (165.70 to 166.70): VV019788.D (-2129) (-)

7.98

300000

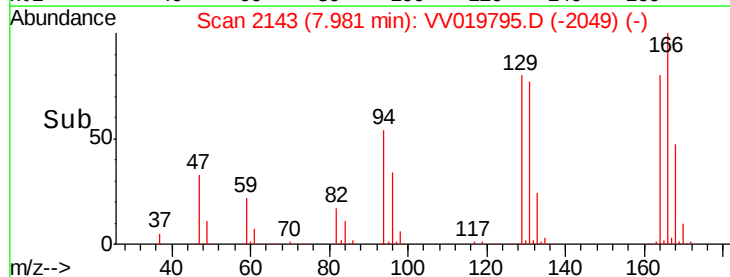
200000

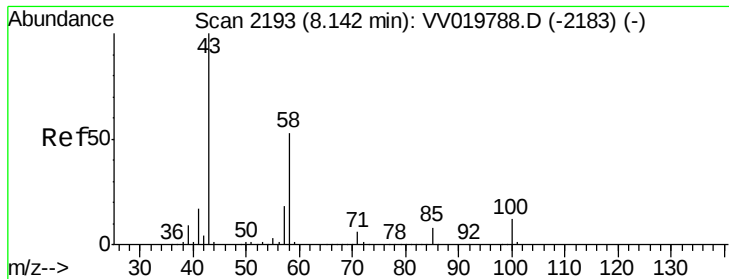
100000

0

7.90 8.00 8.10

Time-->

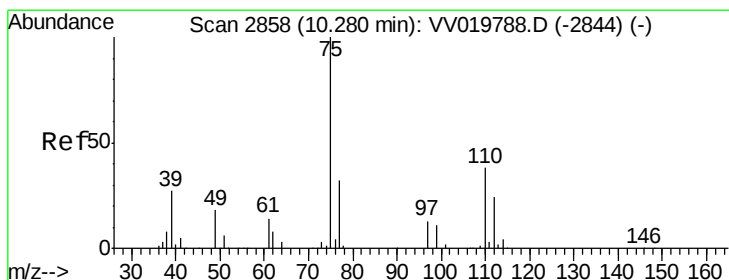
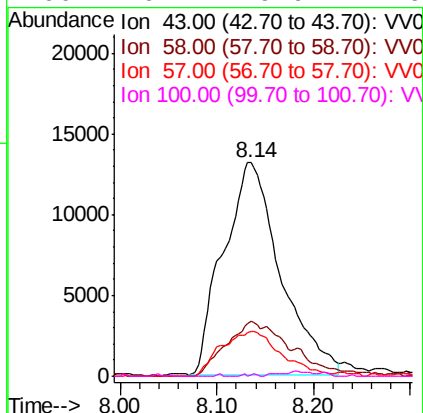
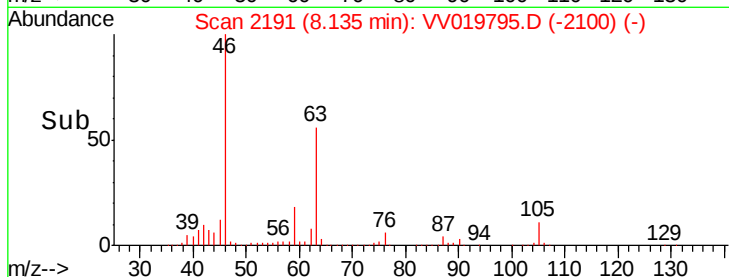
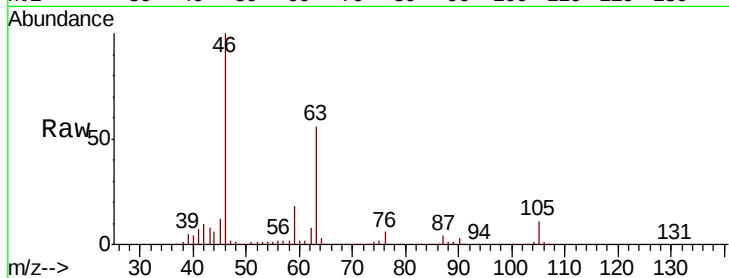




#48  
2-Hexanone  
Concen: 6.654 ug/L  
RT: 8.14 min Scan# 2191  
Delta R.T. -0.01 min  
Lab File: VV019795.D  
Acq: 22 Dec 2020 15:08

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4R4

Tot Ion: 43 Resp: 53909  
Ion Ratio Lower Upper  
43 100  
58 15.1 44.4 66.6#  
57 0.0 15.7 23.5#  
100 0.1 9.9 14.9#



#59  
1,2,3-Trichloropropane  
Concen: 6.718 ug/L  
RT: 11.26 min Scan# 3163  
Delta R.T. 0.98 min  
Lab File: VV019795.D  
Acq: 22 Dec 2020 15:08

Tgt Ion: 75 Resp: 61839  
Ion Ratio Lower Upper  
75 100  
77 33.9 25.8 38.8

