

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053020\  
 Data File : VV016366.D  
 Acq On : 30 May 2020 17:49  
 Operator : SY/MD  
 Sample : L2826-02DL 10X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 01 05:13:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053020WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 05:08:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 93386    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 87265    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 41558    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 31614    | 3.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 77.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 24888    | 4.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 44847    | 3.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.80%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 85367    | 48.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.78%  |
| 24) Chloroform-d               | 4.38   | 84    | 59561    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 32960    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.60%  |
| 32) Benzene-d6                 | 5.08   | 84    | 122377   | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 36927    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.40%  |
| 41) Toluene-d8                 | 7.34   | 98    | 107897   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 12471    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.20%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 67966    | 52.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 105.78% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 25149    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.00%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 37924    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.20%  |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101  | 464      | 0.073  | ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.13  | 96   | 433      | 0.072  | ug/L # | 1      |
| 16) Methylene chloride         | 2.52  | 84   | 648      | 0.101  | ug/L   | 92     |
| 22) cis-1,2-Dichloroethene     | 3.94  | 96   | 14266    | 2.026  | ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.07  | 62   | 801      | 0.096  | ug/L # | 76     |
| 34) Trichloroethene            | 5.94  | 95   | 82272    | 12.145 | ug/L   | 96     |
| 35) Methylcyclohexane          | 6.10  | 83   | 8653     | 0.793  | ug/L # | 15     |
| 37) 1,2-Dichloropropane        | 6.10  | 63   | 4460     | 0.683  | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 997      | 0.116  | ug/L   | 86     |
| 43) 1,3,5-Trimethylbenzene     | 10.57 | 105  | 791      | 0.032  | ug/L   | 97     |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 1970     | 0.079  | ug/L   | 94     |
| 46) trans-1,3-Dichloropropene  | 7.65  | 75   | 530      | 0.074  | ug/L # | 76     |
| 49) Tetrachloroethene          | 8.00  | 164  | 2792     | 0.562  | ug/L   | 89     |
| 51) Dibromochloromethane       | 8.00  | 129  | 2859     | 0.654  | ug/L # | 9      |
| 53) Chlorobenzene              | 8.91  | 112  | 1230     | 0.071  | ug/L # | 85     |
| 70) Naphthalene                | 13.52 | 128  | 279393   | 14.744 | ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053020\  
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Acq On : 30 May 2020 17:49  
Operator : SY/MD  
Sample : L2826-02DL 10X  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

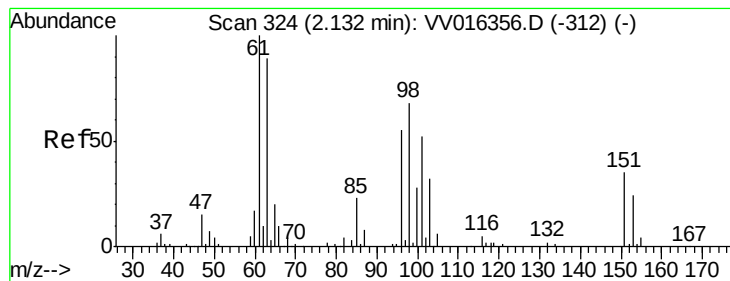
Quant Time: Jun 01 05:13:23 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053020WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Jun 01 05:08:08 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#10

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

Concen: 0.073 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV016366.D

Acq: 30 May 2020 17:49

Instrument :

MSVOA\_V

ClientSampled :

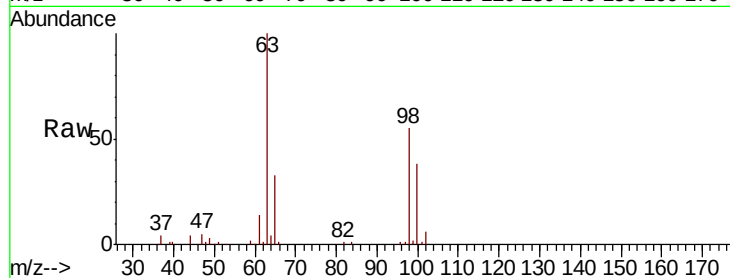
Tot Ion:101 Resp: 464

Ion Ratio Lower Upper

101 100

85 0.0 35.7 53.5#

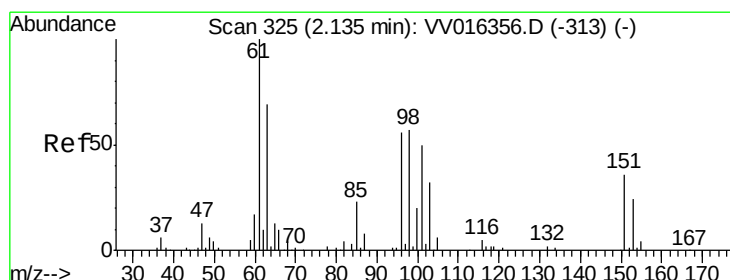
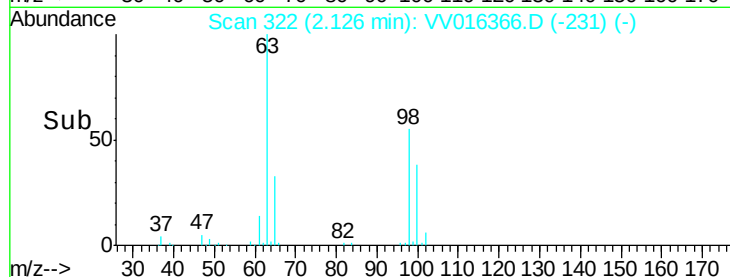
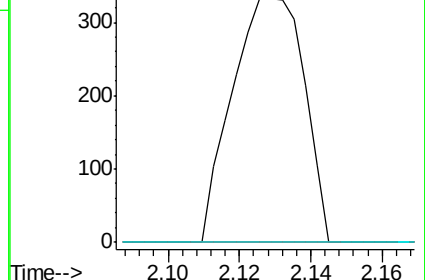
151 0.0 57.2 85.8#



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



#12

1,1-Dichloroethene

Concen: 0.072 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV016366.D

Acq: 30 May 2020 17:49

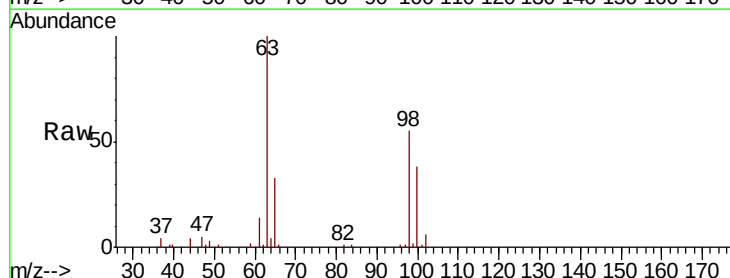
Tgt Ion: 96 Resp: 433

Ion Ratio Lower Upper

96 100

61 1334.5 125.4 233.0#

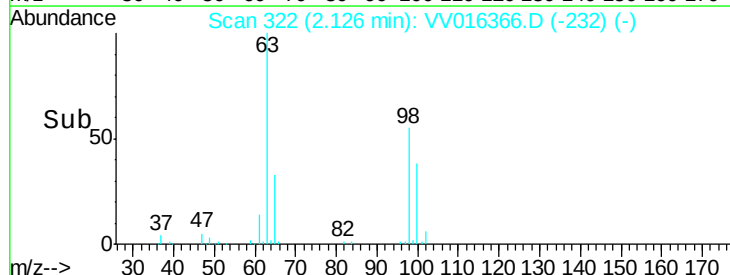
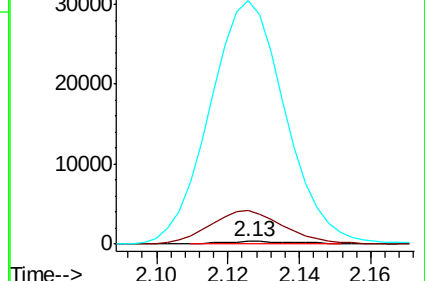
63 9735.5 88.2 163.8#

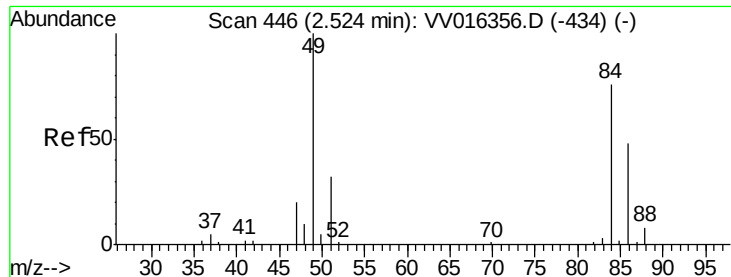


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

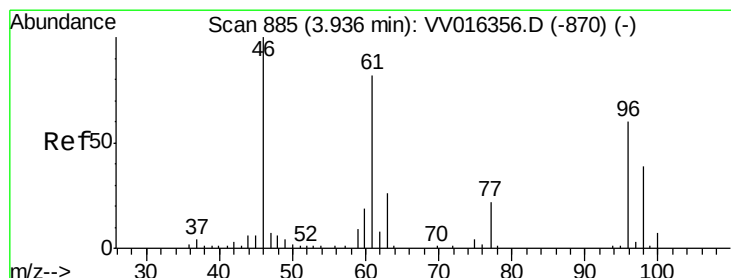
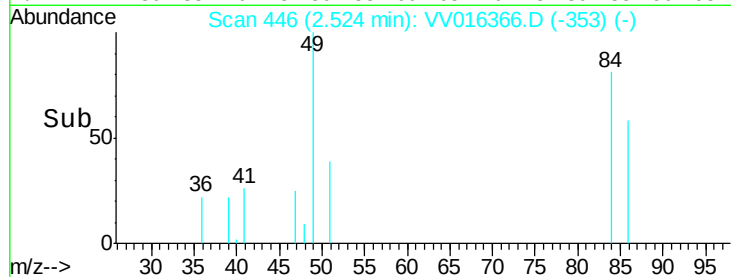
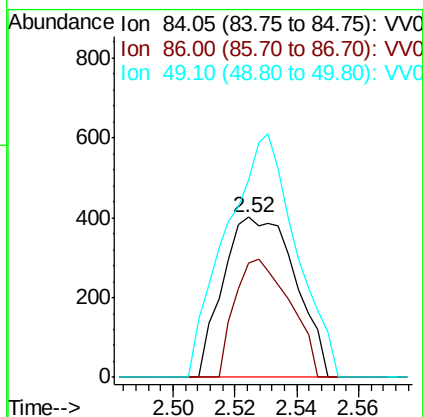
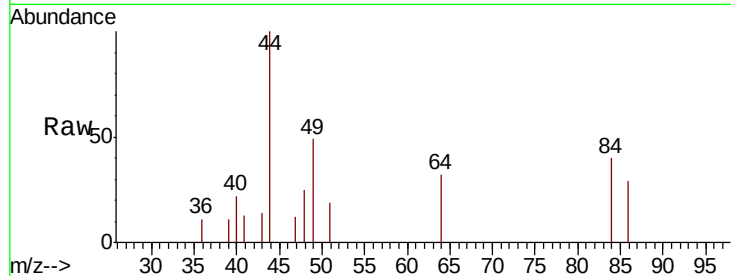




#16  
Methylene chloride  
Concen: 0.101 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. -0.00 min  
Lab File: VV016366.D  
Acq: 30 May 2020 17:49

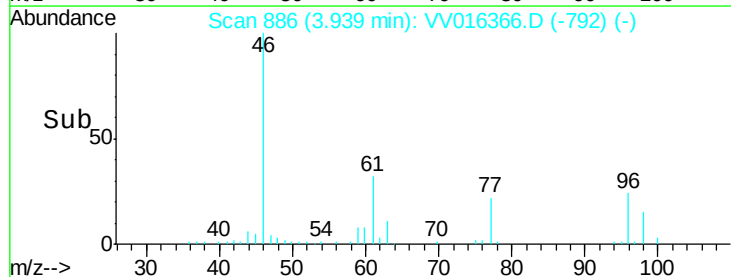
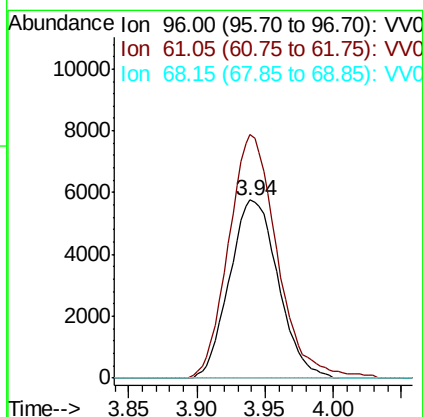
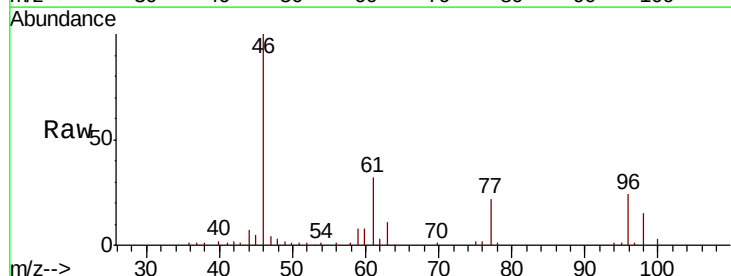
Instrument :  
MSVOA\_V  
ClientSampleId :

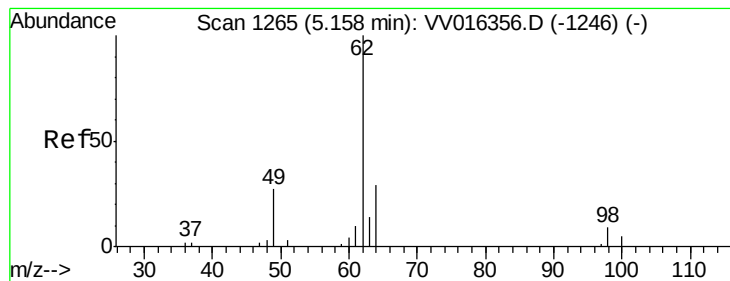
Tot Ion: 84 Resp: 648  
Ion Ratio Lower Upper  
84 100  
86 71.8 44.5 82.7  
49 123.4 92.3 171.3



#22  
cis-1,2-Dichloroethene  
Concen: 2.026 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV016366.D  
Acq: 30 May 2020 17:49

Tgt Ion: 96 Resp: 14266  
Ion Ratio Lower Upper  
96 100  
61 137.0 94.8 176.0  
68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.096 ug/L

RT: 5.07 min Scan# 1239

Delta R.T. -0.08 min

Lab File: VV016366.D

Acq: 30 May 2020 17:49

Instrument :

MSVOA\_V

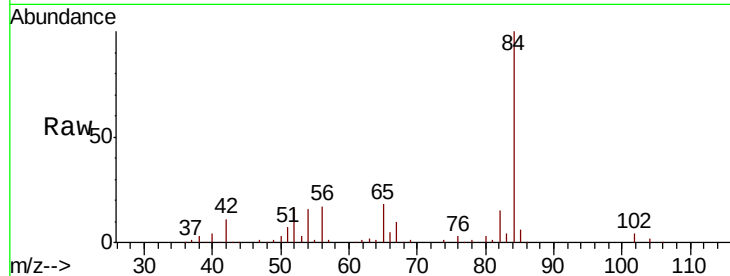
ClientSampled :

Tot Ion: 62 Resp: 801

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#



Abundance Ion 62.00 (61.70 to 62.70): VV016356.D (-1246) (-)

Ion 98.05 (97.75 to 98.75): VV016356.D (-1246) (-)

5.07

400

300

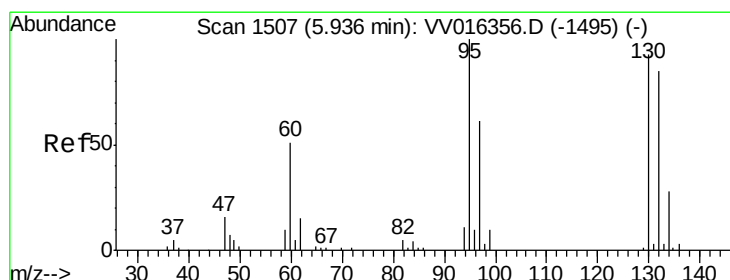
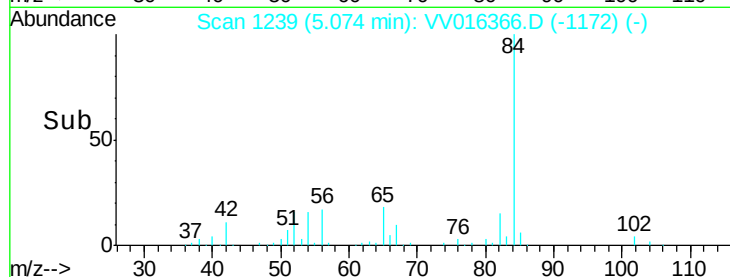
200

100

0

5.04 5.06 5.08 5.10

Time-->



#34

Trichloroethene

Concen: 12.145 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV016366.D

Acq: 30 May 2020 17:49

Tgt Ion: 95 Resp: 82272

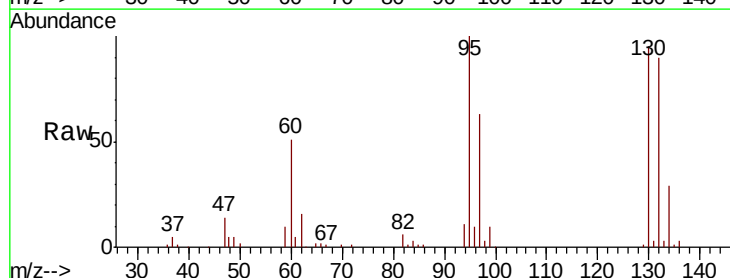
Ion Ratio Lower Upper

95 100

97 63.3 42.6 79.0

132 90.3 59.6 110.8

130 95.3 64.8 120.4



Abundance Ion 95.00 (94.70 to 95.70): VV016356.D (-1495) (-)

Ion 96.95 (96.65 to 97.65): VV016356.D (-1495) (-)

Ion 131.95 (131.65 to 132.65): VV016356.D (-1495) (-)

Ion 129.95 (129.65 to 130.65): VV016356.D (-1495) (-)

5.94

60000

50000

40000

30000

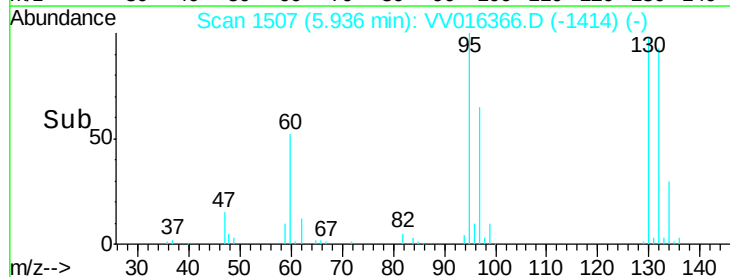
20000

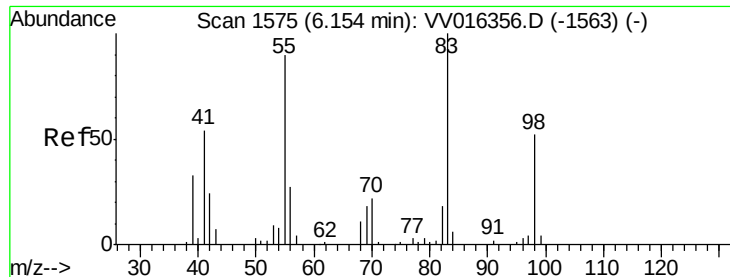
10000

0

5.90 5.94 5.98

Time-->

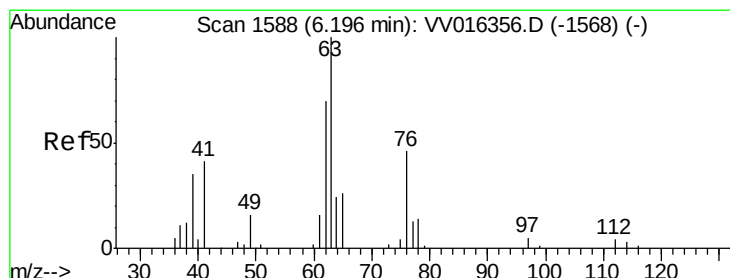
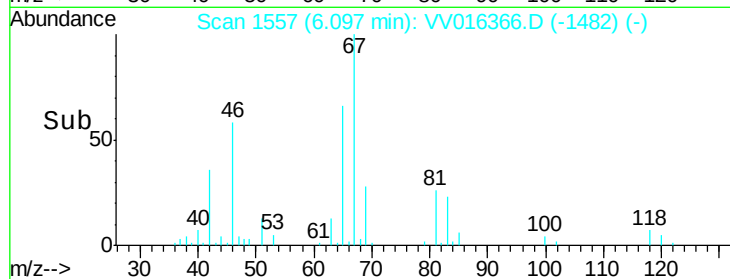
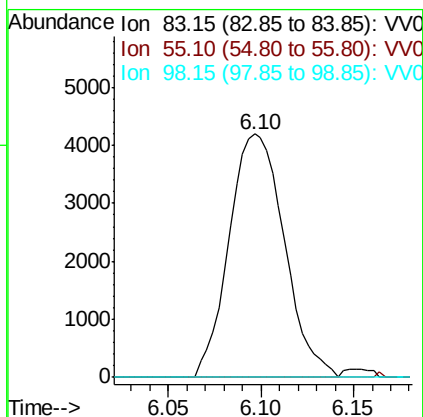
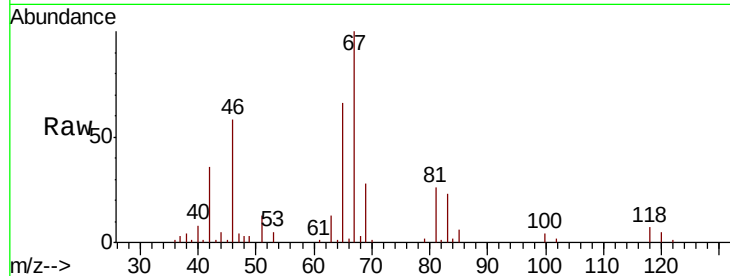




#35  
Methylvlcyclohexane  
Concen: 0.793 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.06 min  
Lab File: VV016366.D  
Acq: 30 May 2020 17:49

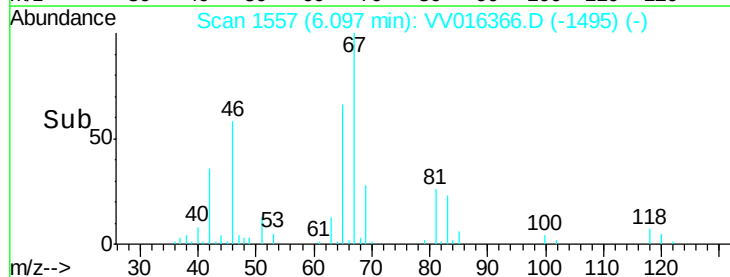
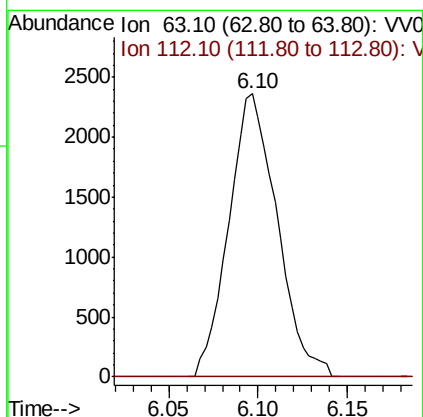
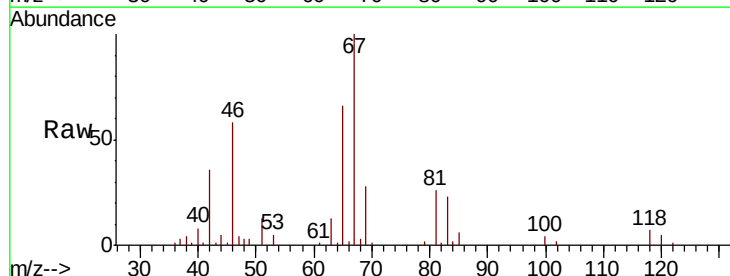
Instrument :  
MSVOA\_V  
ClientSampleId :

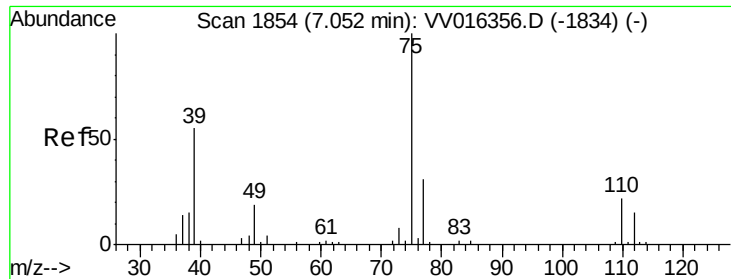
Tot Ion: 83 Resp: 8653  
Ion Ratio Lower Upper  
83 100  
55 0.2 67.0 100.4#  
98 0.0 39.0 58.4#



#37  
1,2-Dichloropropane  
Concen: 0.683 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV016366.D  
Acq: 30 May 2020 17:49

Tgt Ion: 63 Resp: 4460  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.0#

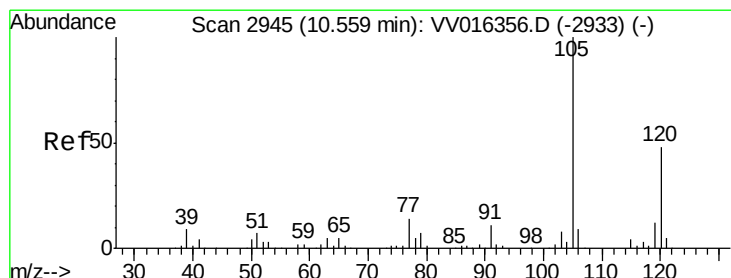
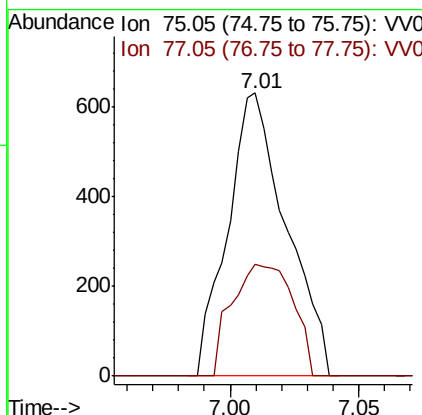
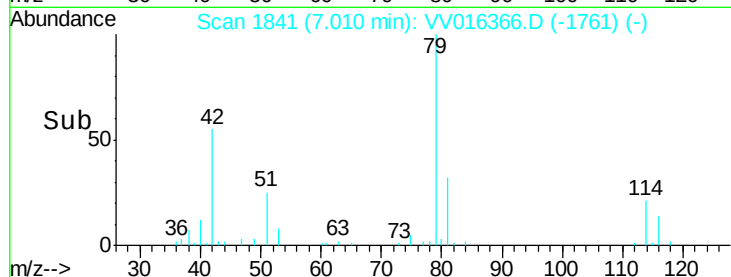
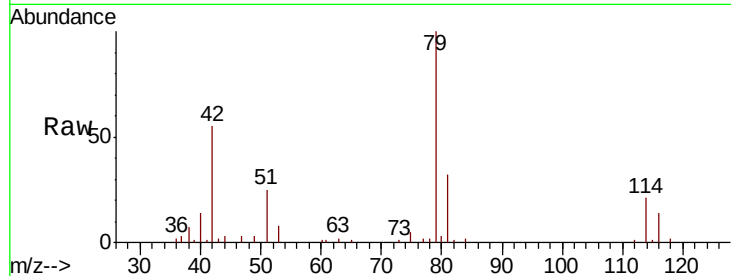




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.116 ug/L  
 RT: 7.01 min Scan# 1841  
 Delta R.T. -0.04 min  
 Lab File: VV016366.D  
 Acq: 30 May 2020 17:49

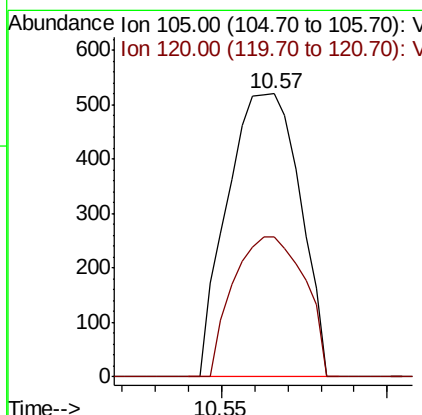
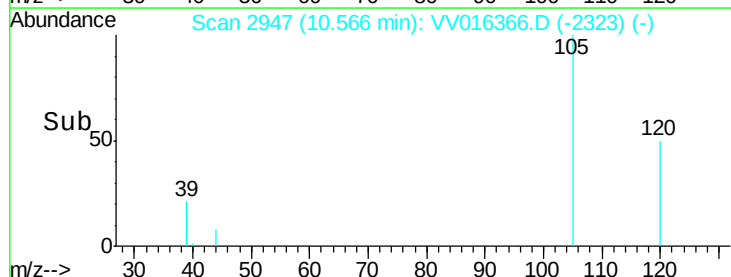
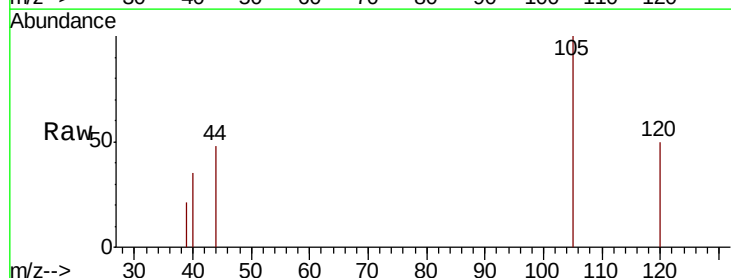
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 75 Resp: 997  
 Ion Ratio Lower Upper  
 75 100  
 77 39.4 22.0 41.0

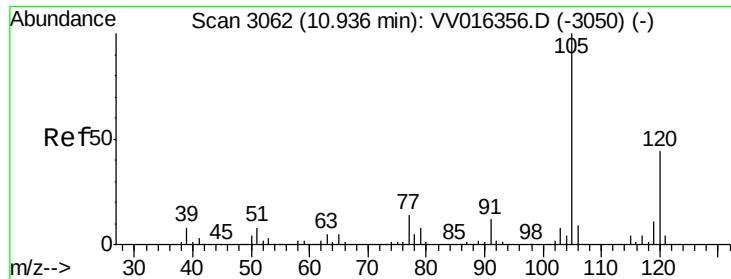


#43  
 1,3,5-Trimethylbenzene  
 Concen: 0.032 ug/L  
 RT: 10.57 min Scan# 2947  
 Delta R.T. 0.01 min  
 Lab File: VV016366.D  
 Acq: 30 May 2020 17:49

Tgt Ion: 105 Resp: 791  
 Ion Ratio Lower Upper  
 105 100  
 120 48.7 37.5 56.3



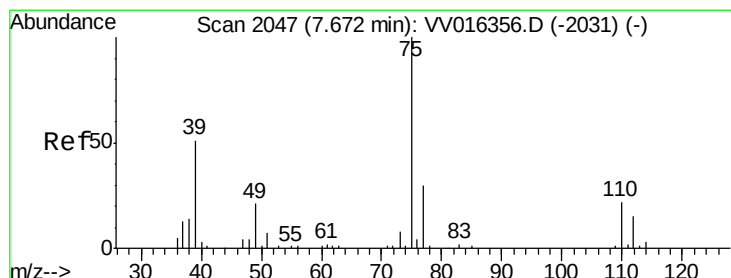
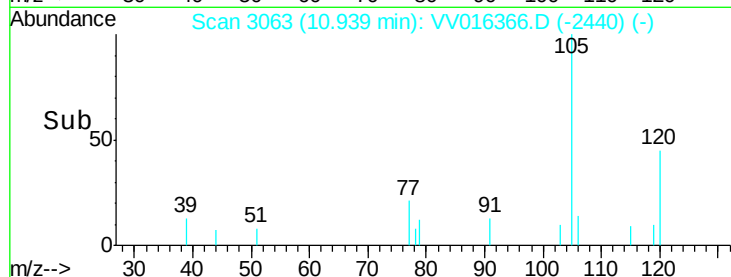
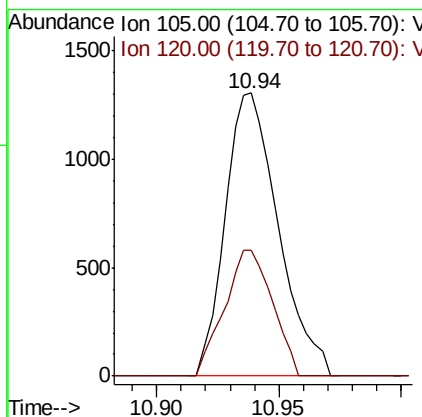
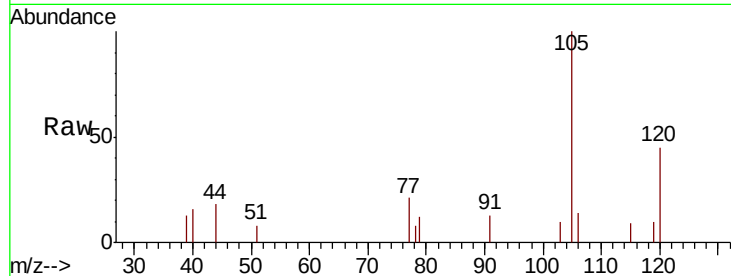




#44  
 1,2,4-Trimethylbenzene  
 Concen: 0.079 ug/L  
 RT: 10.94 min Scan# 3063  
 Delta R.T. 0.00 min  
 Lab File: VV016366.D  
 Acq: 30 May 2020 17:49

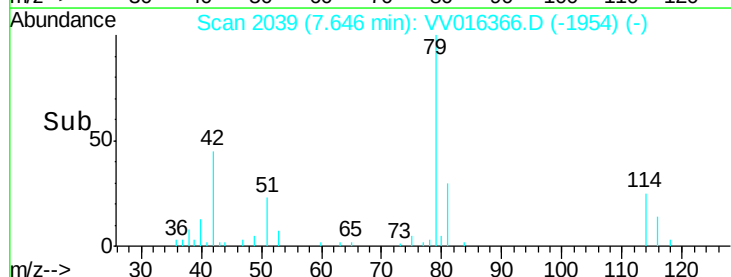
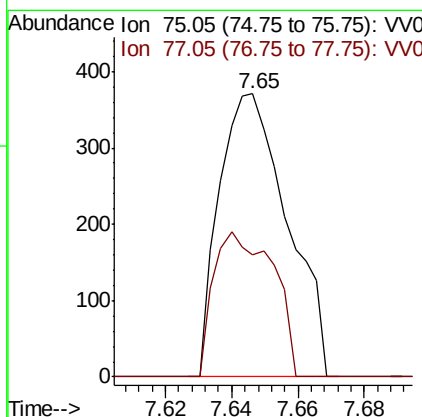
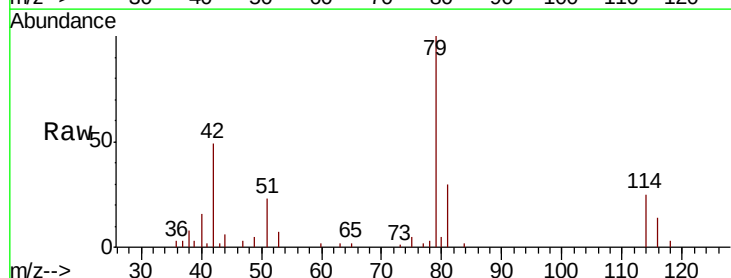
Instrument :  
 MSVOA\_V  
 ClientSampled :

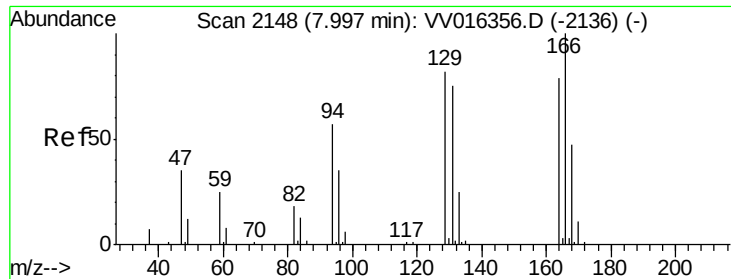
Tot Ion:105 Resp: 1970  
 Ion Ratio Lower Upper  
 105 100  
 120 40.3 35.5 53.3



#46  
 trans-1,3-Dichloropropene  
 Concen: 0.074 ug/L  
 RT: 7.65 min Scan# 2039  
 Delta R.T. -0.03 min  
 Lab File: VV016366.D  
 Acq: 30 May 2020 17:49

Tgt Ion: 75 Resp: 530  
 Ion Ratio Lower Upper  
 75 100  
 77 43.1 21.1 39.3#





#49

Tetrachloroethene

Concen: 0.562 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV016366.D

Acq: 30 May 2020 17:49

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 2792

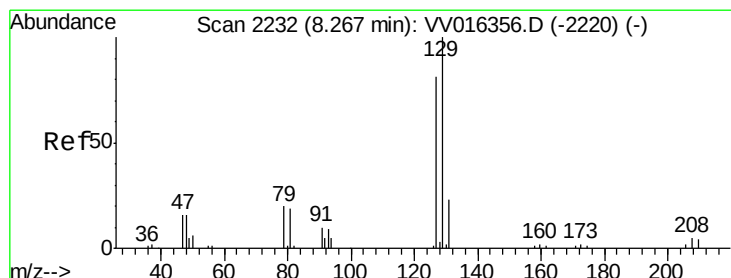
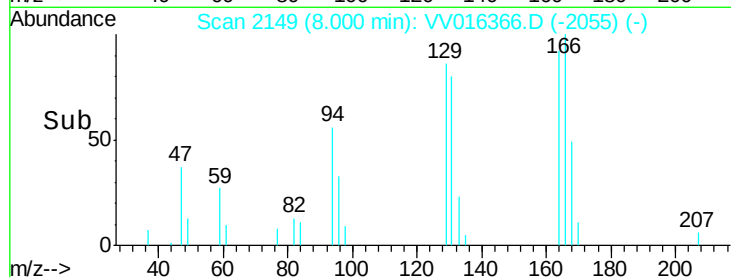
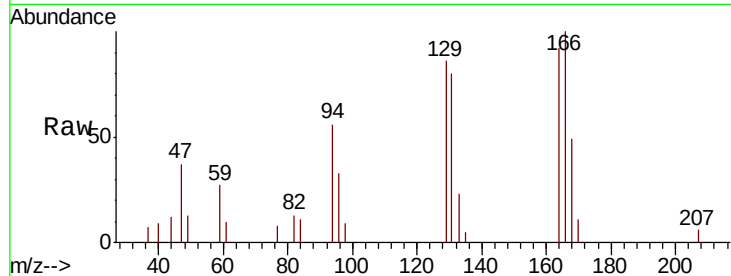
Ion Ratio Lower Upper

164 100

129 93.7 72.2 134.0

131 87.5 65.8 122.2

166 109.2 88.3 163.9



#51

Dibromochloromethane

Concen: 0.654 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV016366.D

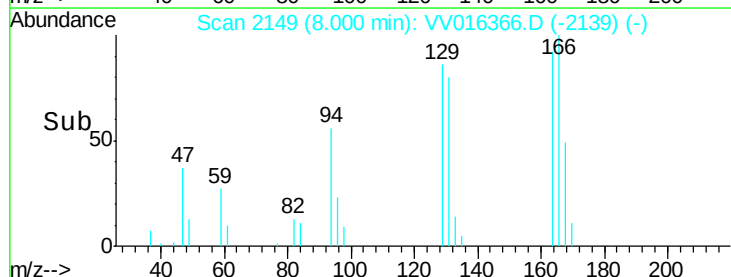
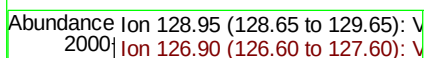
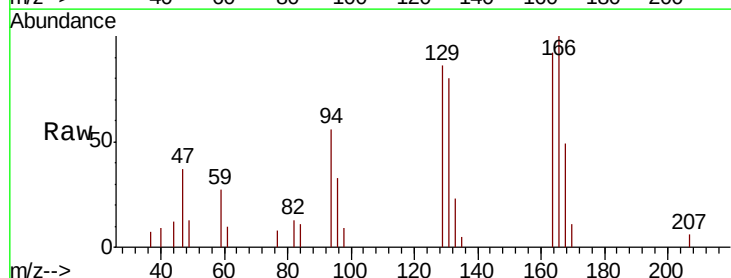
Acq: 30 May 2020 17:49

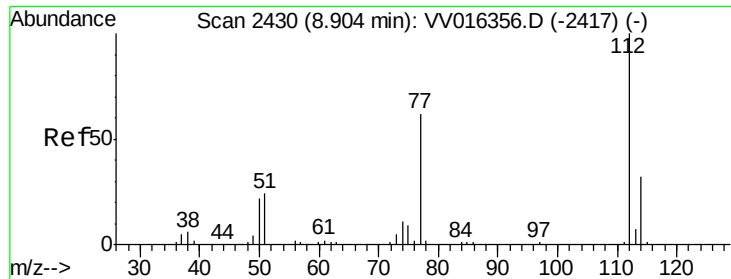
Tgt Ion:129 Resp: 2859

Ion Ratio Lower Upper

129 100

127 0.0 57.0 105.8#

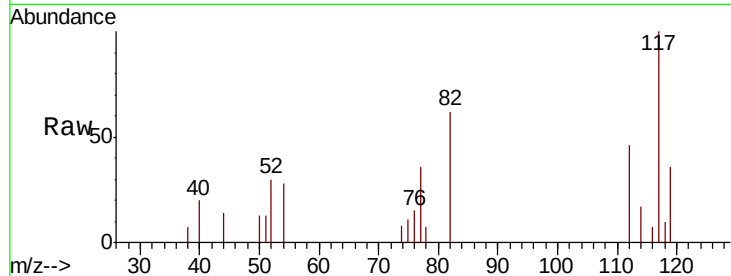




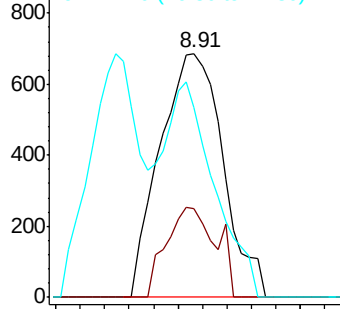
#53  
Chlorobenzene  
Concen: 0.071 ug/L  
RT: 8.91 min Scan# 2431  
Delta R.T. 0.00 min  
Lab File: VV016366.D  
Acq: 30 May 2020 17:49

Instrument :  
MSVOA\_V  
ClientSampleId :

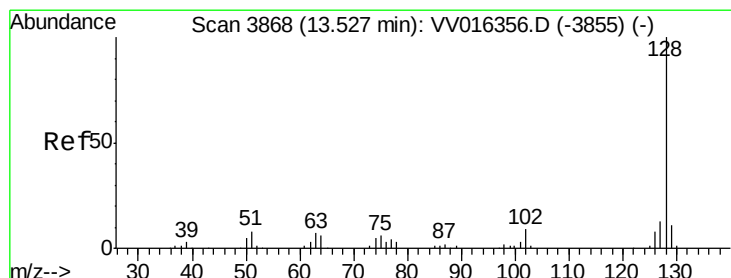
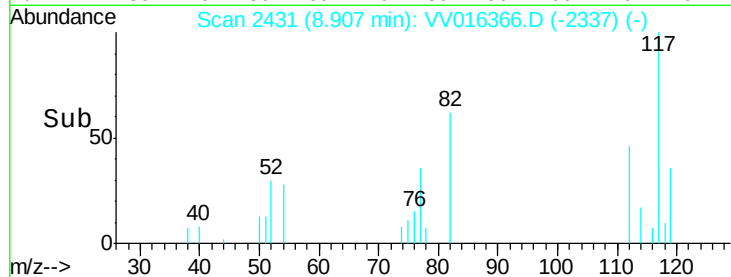
Tot Ion:112 Resp: 1230  
Ion Ratio Lower Upper  
112 100  
114 36.4 22.6 42.0  
77 78.1 50.5 75.7#



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

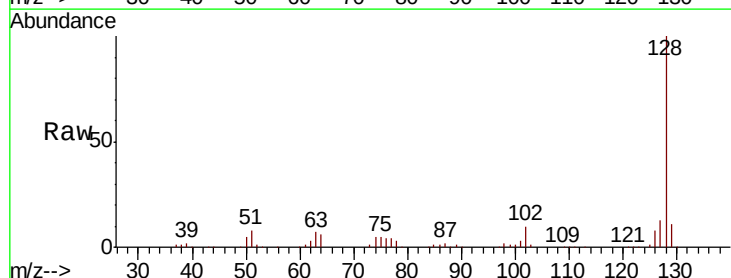


Time--> 8.85 8.90 8.95

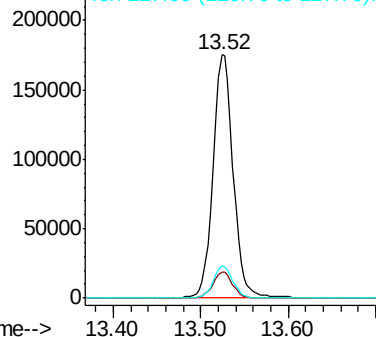


#70  
Naphthalene  
Concen: 14.744 ug/L  
RT: 13.52 min Scan# 3867  
Delta R.T. -0.00 min  
Lab File: VV016366.D  
Acq: 30 May 2020 17:49

Tgt Ion:128 Resp: 279393  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.6 12.8  
127 12.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



Time--> 13.40 13.50 13.60

