

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\  
 Data File : VV015539.D  
 Acq On : 16 Apr 2020 16:11  
 Operator : SY/MD  
 Sample : L2320-06  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 17 00:50:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 17 00:46:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 103581   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 97135    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 47570    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 26066    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.00%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 24294    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 37696    | 3.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.60%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 77849    | 51.59    | ug/L | 0.03    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.18% |
| 24) Chloroform-d               | 4.38   | 84    | 55732    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 32049    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.00% |
| 32) Benzene-d6                 | 5.07   | 84    | 108088   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 34209    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.00% |
| 41) Toluene-d8                 | 7.34   | 98    | 97445    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80%  |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 13047    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.40%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 63033    | 44.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.56%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 23580    | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 35774    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.60%  |

## Target Compounds

|                               |      |     |        |               | Ovalue |
|-------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.14 | 85  | 5181   | 0.505 ug/L    | 99     |
| 9) Trichlorofluoromethane     | 1.76 | 101 | 3046   | 0.253 ug/L    | 98     |
| 12) 1,1-Dichloroethene        | 2.13 | 96  | 702    | 0.108 ug/L #  | 1      |
| 17) Methyl tert-butyl Ether   | 2.79 | 73  | 25168  | 1.448 ug/L    | 97     |
| 22) cis-1,2-Dichloroethene    | 3.94 | 96  | 10173  | 1.337 ug/L    | 96     |
| 25) Chloroform                | 4.41 | 83  | 3907   | 0.276 ug/L    | 77     |
| 27) 1,2-Dichloroethane        | 5.17 | 62  | 635    | 0.069 ug/L #  | 77     |
| 34) Trichloroethene           | 5.94 | 95  | 311415 | 39.797 ug/L   | 100    |
| 35) Methylcyclohexane         | 6.10 | 83  | 8409   | 0.638 ug/L #  | 17     |
| 37) 1,2-Dichloropropane       | 6.10 | 63  | 4517   | 0.626 ug/L #  | 86     |
| 39) cis-1,3-Dichloropropene   | 7.01 | 75  | 1132   | 0.102 ug/L #  | 53     |
| 44) trans-1,3-Dichloropropene | 7.64 | 75  | 634    | 0.068 ug/L    | 91     |
| 45) 1,1,2-Trichloroethane     | 8.00 | 97  | 670    | 0.138 ug/L #  | 13     |
| 47) Tetrachloroethene         | 8.00 | 164 | 67491  | 11.641 ug/L   | 99     |
| 48) 2-Hexanone                | 8.12 | 43  | 10428  | 3.152 ug/L #  | 74     |
| 49) Dibromochloromethane      | 8.00 | 129 | 65392  | 11.263 ug/L # | 10     |

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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Apr 17 00:50:08 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Apr 17 00:46:36 2020  
Response via : Initial Calibration

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

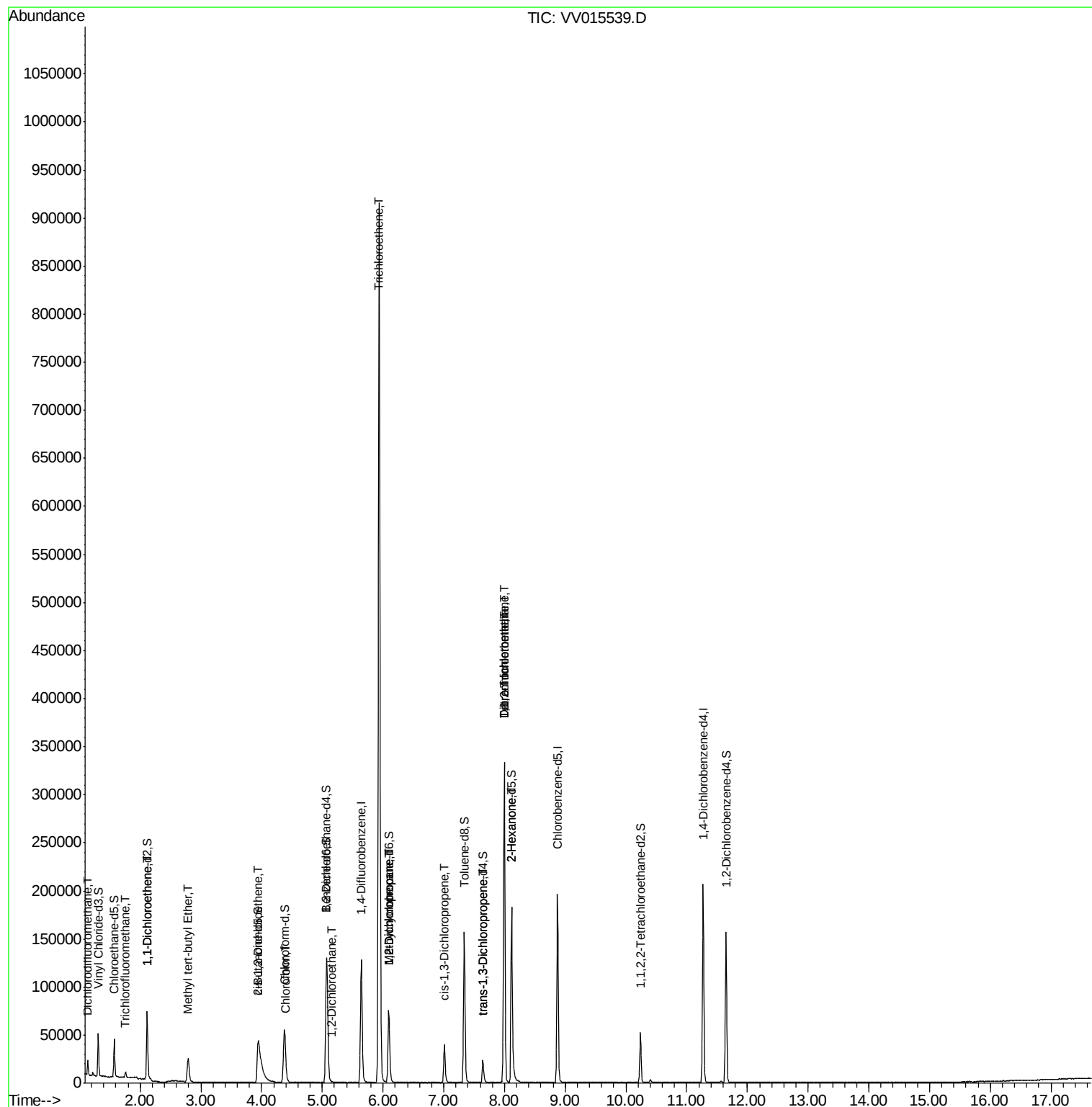
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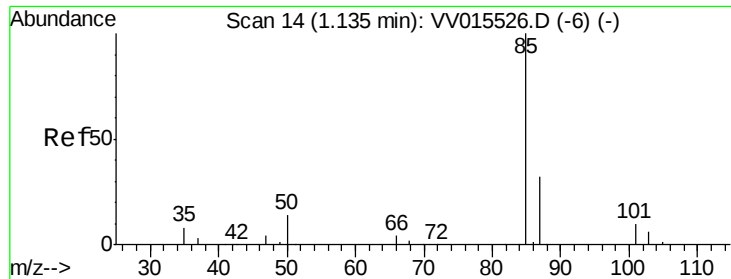
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_V  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Apr 17 00:46:36 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.505 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV015539.D

Acq: 16 Apr 2020 16:11

Instrument :

MSVOA\_V

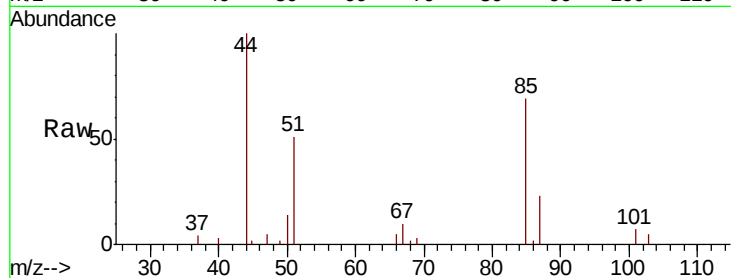
ClientSampled :

Tot Ion: 85 Resp: 5181

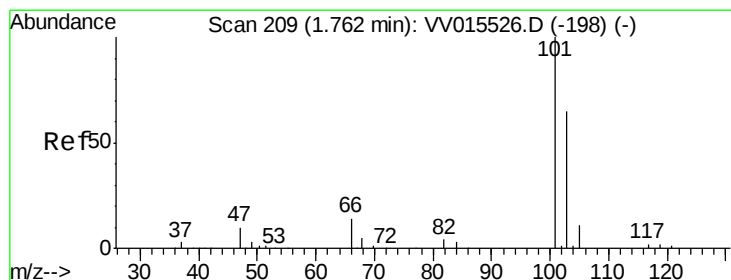
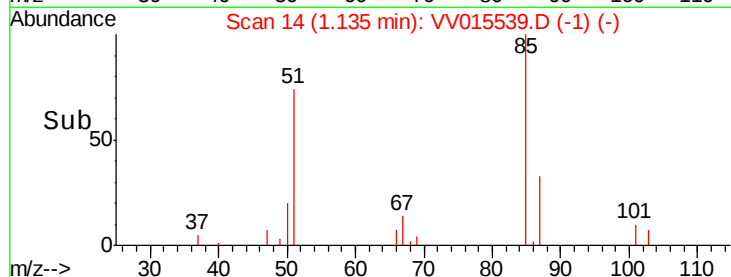
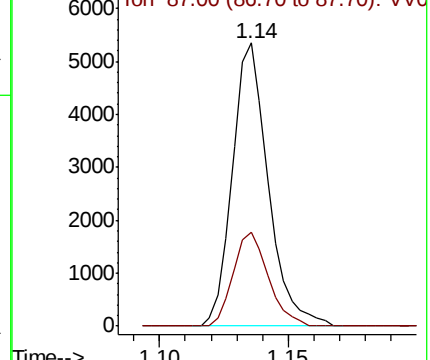
Ion Ratio Lower Upper

85 100

87 32.4 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV015539.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.253 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV015539.D

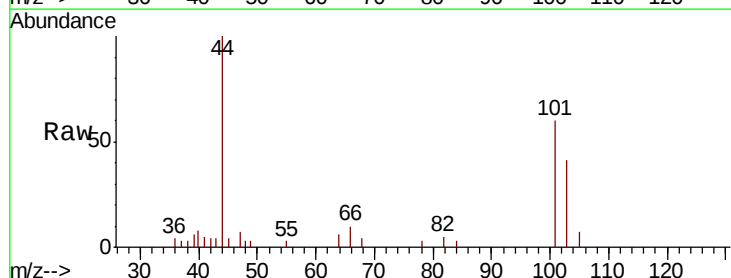
Acq: 16 Apr 2020 16:11

Tgt Ion: 101 Resp: 3046

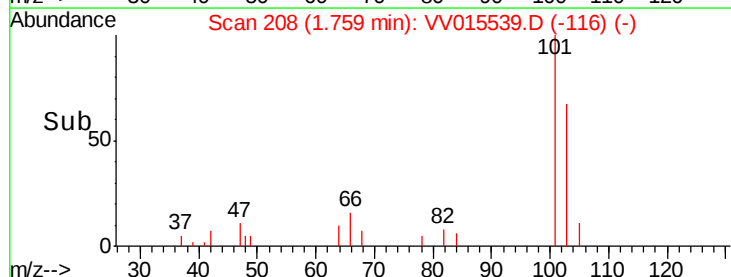
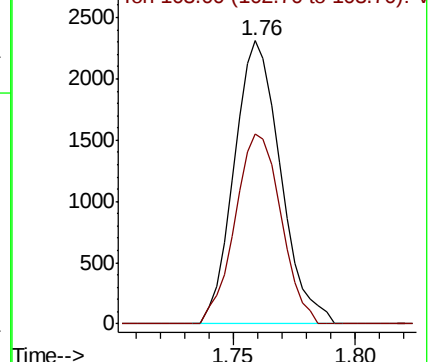
Ion Ratio Lower Upper

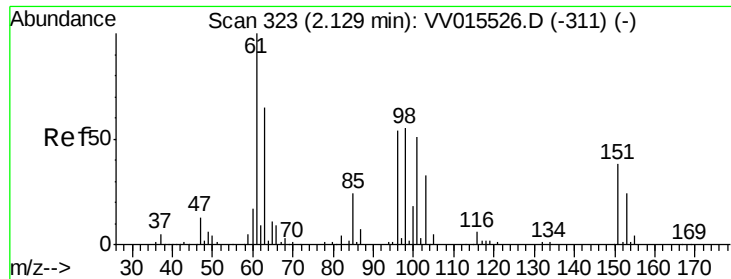
101 100

103 66.5 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV015539.D (-116) (-)

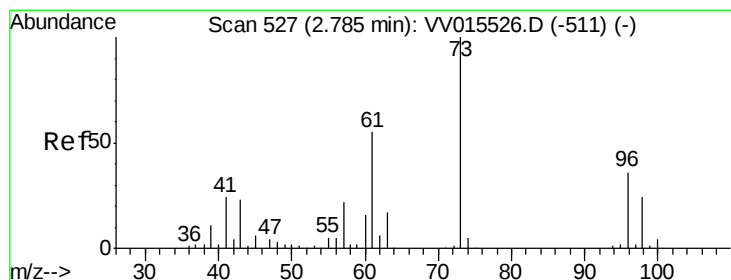
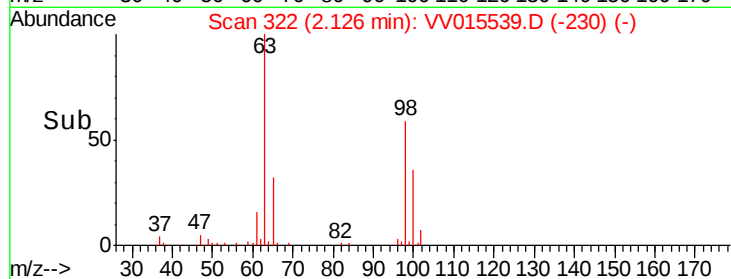
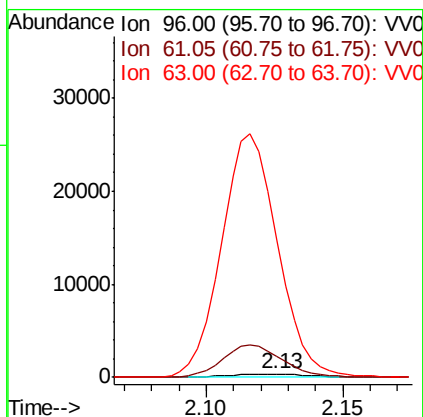
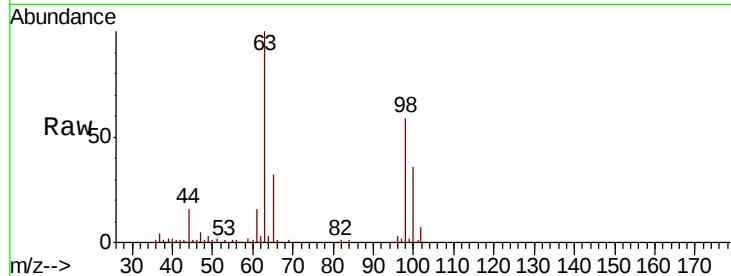




#12  
 1,1-Dichloroethene  
 Concen: 0.108 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. -0.00 min  
 Lab File: VV015539.D  
 Acq: 16 Apr 2020 16:11

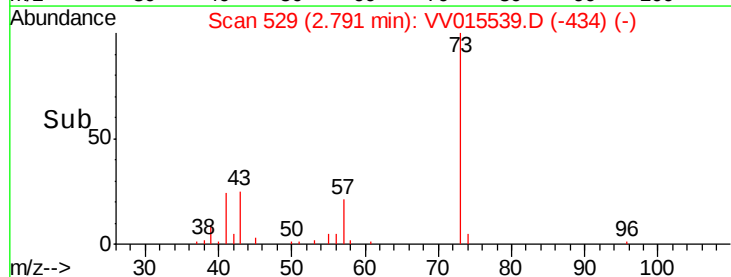
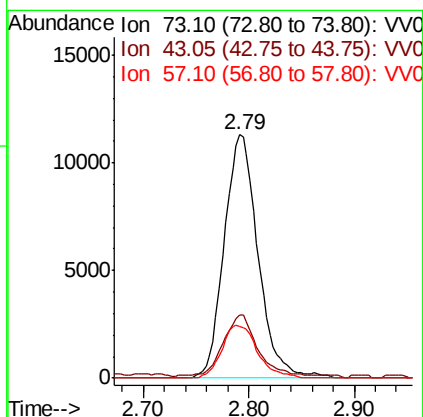
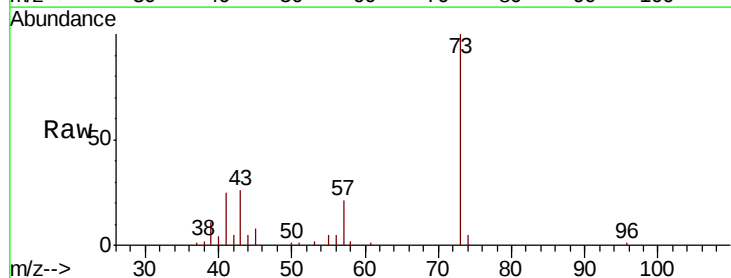
Instrument :  
 MSVOA\_V  
 ClientSampleId :

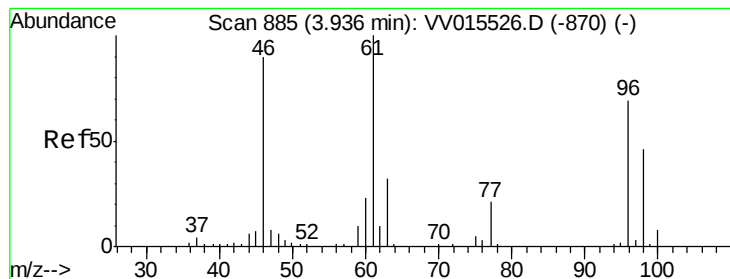
Tot Ion: 96 Resp: 702  
 Ion Ratio Lower Upper  
 96 100  
 61 609.6 127.7 237.1#  
 63 3919.9 75.1 139.5#



#17  
 Methyl tert-butyl Ether  
 Concen: 1.448 ug/L  
 RT: 2.79 min Scan# 529  
 Delta R.T. 0.01 min  
 Lab File: VV015539.D  
 Acq: 16 Apr 2020 16:11

Tgt Ion: 73 Resp: 25168  
 Ion Ratio Lower Upper  
 73 100  
 43 25.8 18.3 27.5  
 57 22.7 18.4 27.6



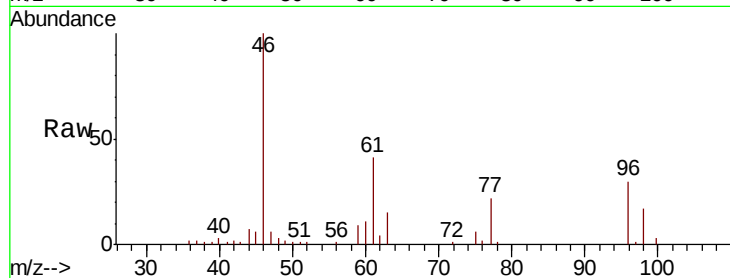


#22

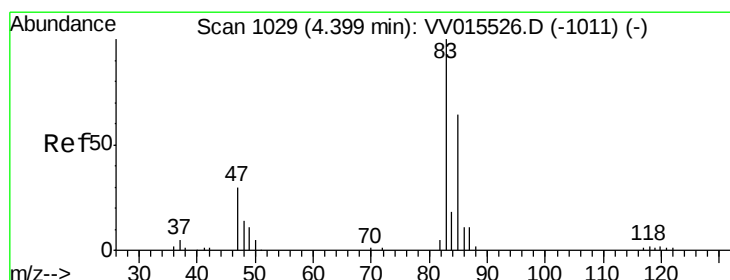
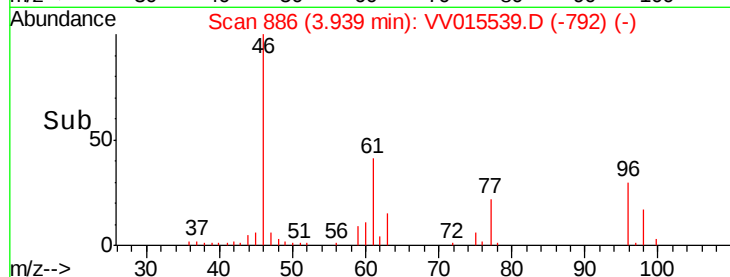
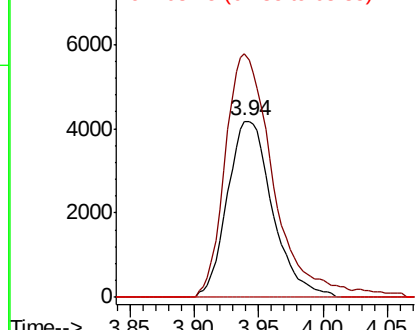
cis-1,2-Dichloroethene  
Concen: 1.337 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 96 Resp: 10173  
Ion Ratio Lower Upper  
96 100  
61 138.5 100.0 185.8  
68 0.0 0.0 0.0



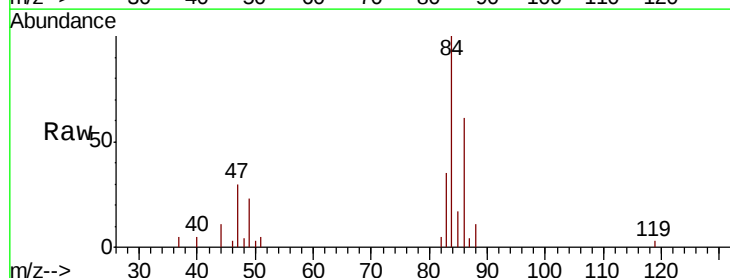
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0



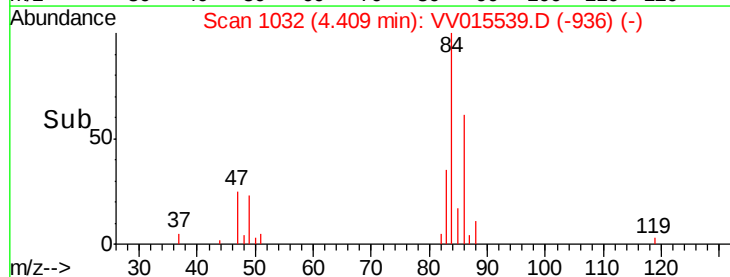
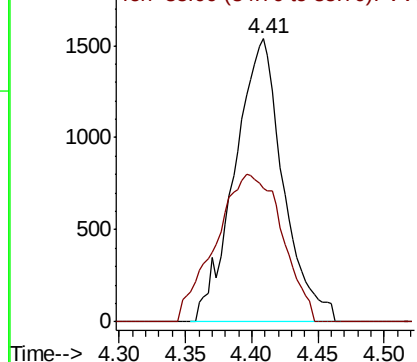
#25

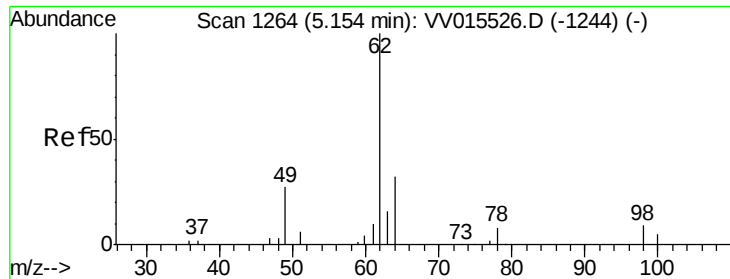
Chloroform  
Concen: 0.276 ug/L  
RT: 4.41 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

Tgt Ion: 83 Resp: 3907  
Ion Ratio Lower Upper  
83 100  
85 47.3 45.9 85.3



Abundance Ion 83.05 (82.75 to 83.75): VV0  
Ion 85.00 (84.70 to 85.70): VV0

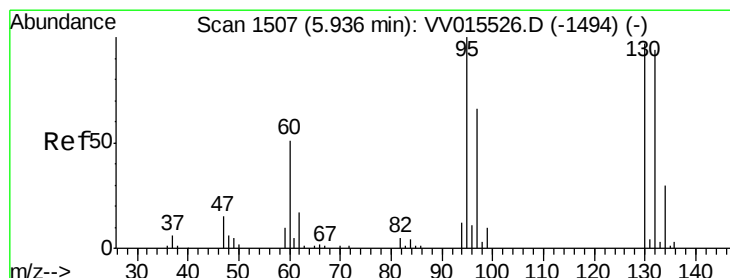
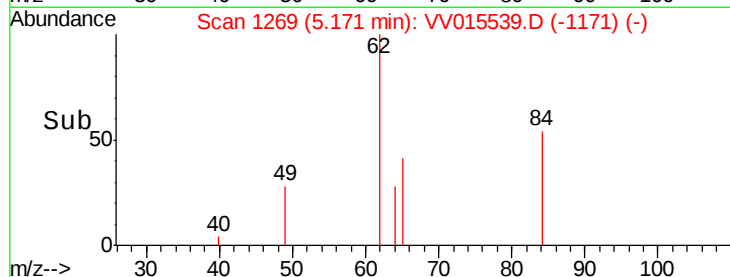
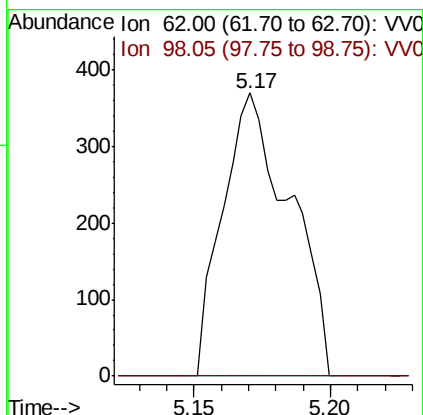
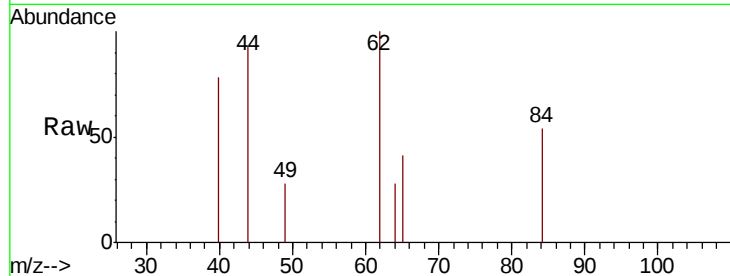




#27  
1,2-Dichloroethane  
Concen: 0.069 ug/L  
RT: 5.17 min Scan# 1269  
Delta R.T. 0.02 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

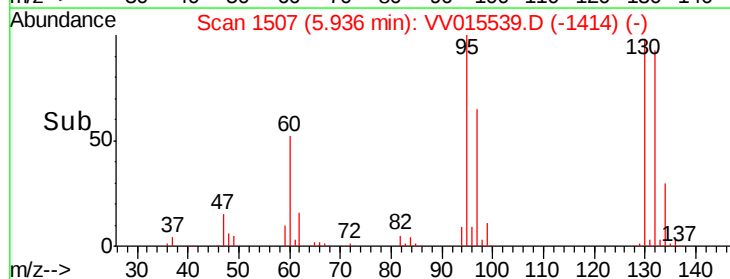
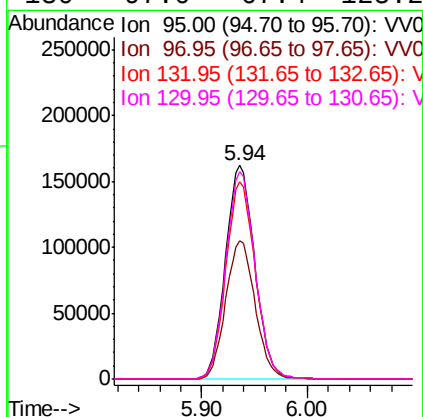
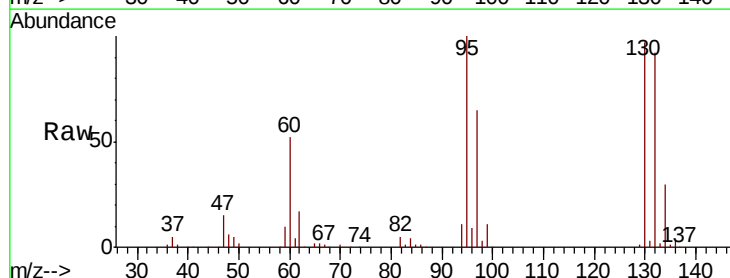
Instrument :  
MSVOA\_V  
ClientSampleId :

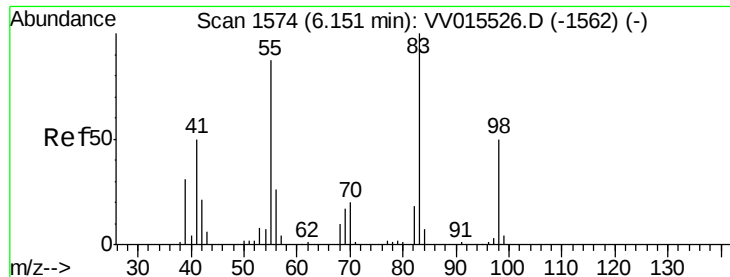
Tot Ion: 62 Resp: 635  
Ion Ratio Lower Upper  
62 100  
98 0.0 6.6 10.0#



#34  
Trichloroethene  
Concen: 39.797 ug/L  
RT: 5.94 min Scan# 1507  
Delta R.T. 0.00 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

Tgt Ion: 95 Resp: 311415  
Ion Ratio Lower Upper  
95 100  
97 64.7 45.4 84.4  
132 92.3 64.8 120.4  
130 97.0 67.4 125.2

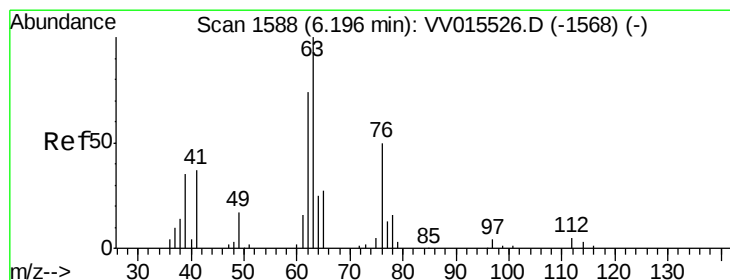
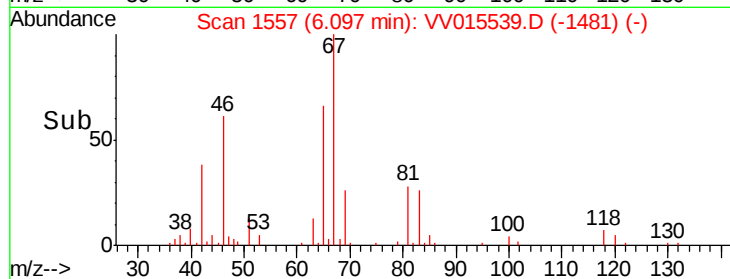
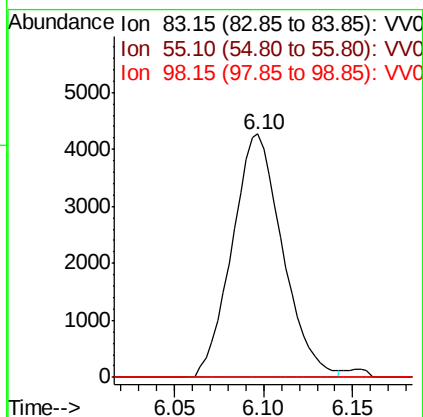
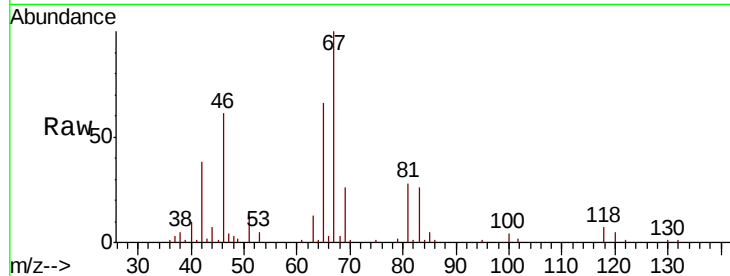




#35  
Methvlcvclohexane  
Concen: 0.638 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.05 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

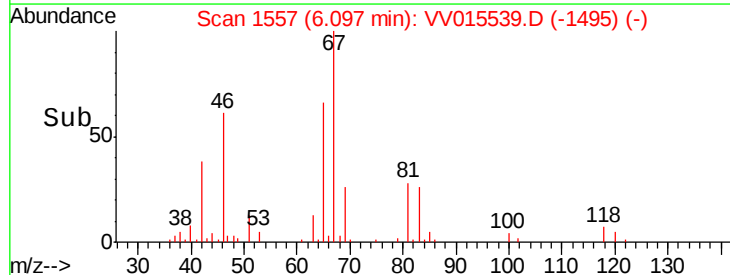
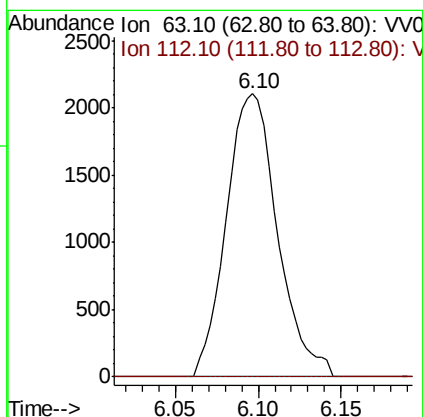
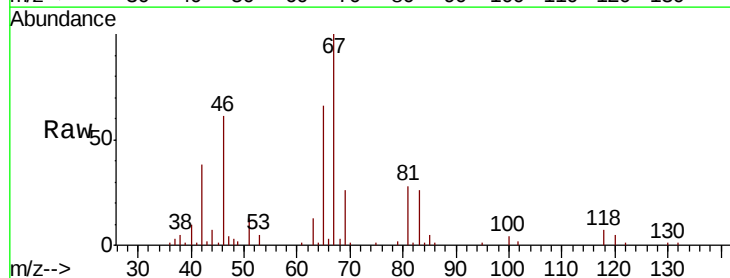
Instrument :  
MSVOA\_V  
ClientSampleId :

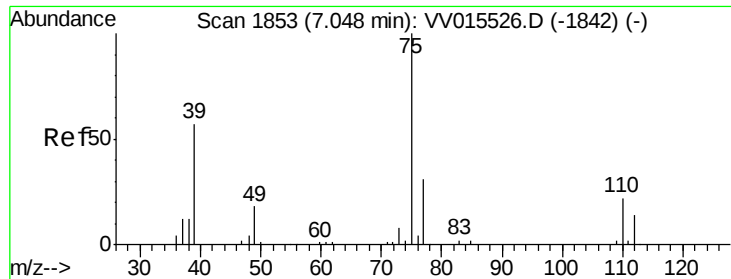
Tot Ion: 83 Resp: 8409  
Ion Ratio Lower Upper  
83 100  
55 0.0 66.6 99.8#  
98 3.8 38.7 58.1#



#37  
1,2-Dichloropropane  
Concen: 0.626 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

Tgt Ion: 63 Resp: 4517  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#

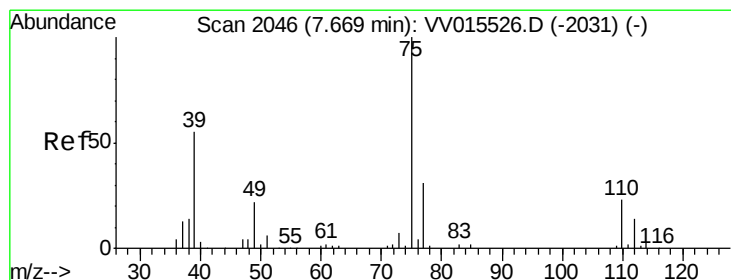
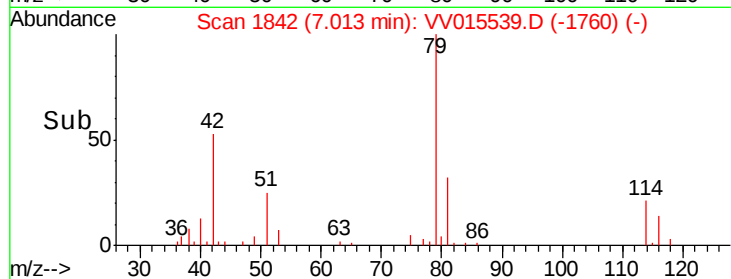
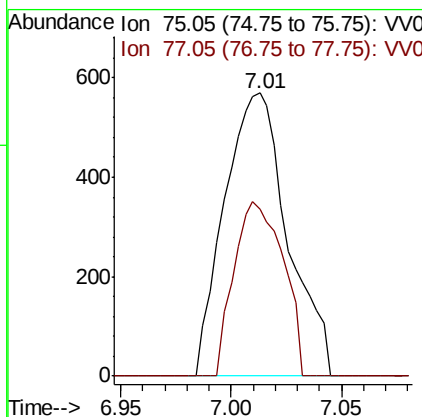
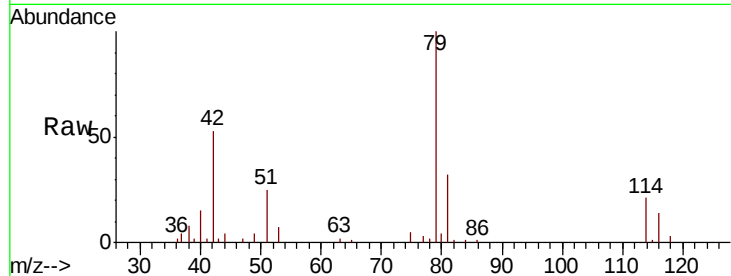




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.102 ug/L  
 RT: 7.01 min Scan# 1842  
 Delta R.T. -0.04 min  
 Lab File: VV015539.D  
 Acq: 16 Apr 2020 16:11

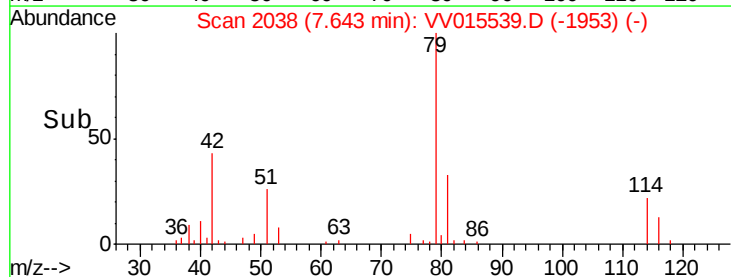
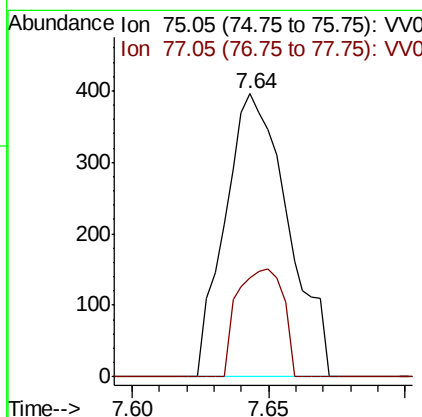
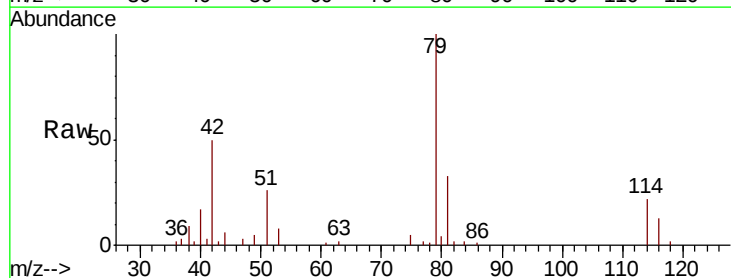
Instrument :  
 MSVOA\_V  
 ClientSampleId :

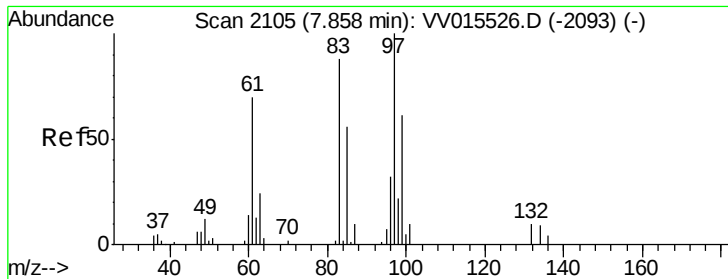
Tot Ion: 75 Resp: 1132  
 Ion Ratio Lower Upper  
 75 100  
 77 59.1 23.0 42.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.068 ug/L  
 RT: 7.64 min Scan# 2038  
 Delta R.T. -0.03 min  
 Lab File: VV015539.D  
 Acq: 16 Apr 2020 16:11

Tgt Ion: 75 Resp: 634  
 Ion Ratio Lower Upper  
 75 100  
 77 34.8 21.0 39.0

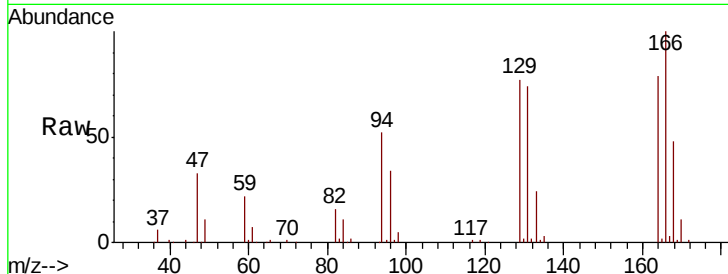




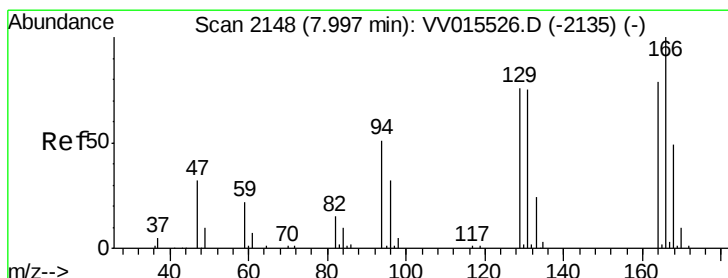
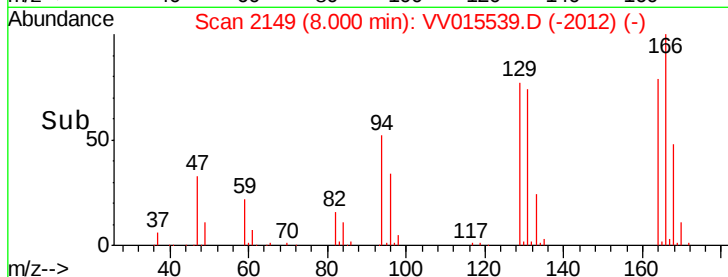
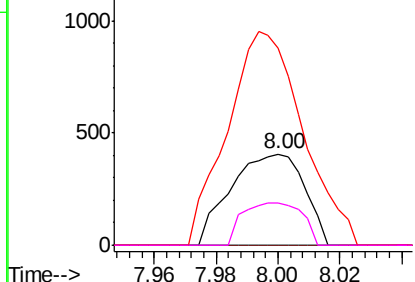
#45  
 1,1,2-Trichloroethane  
 Concen: 0.138 ug/L  
 RT: 8.00 min Scan# 2149  
 Delta R.T. 0.14 min  
 Lab File: VV015539.D  
 Acq: 16 Apr 2020 16:11

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 97 Resp: 670  
 Ion Ratio Lower Upper  
 97 100  
 99 0.0 41.3 76.7#  
 83 215.0 60.5 112.3#  
 85 46.4 36.8 68.4



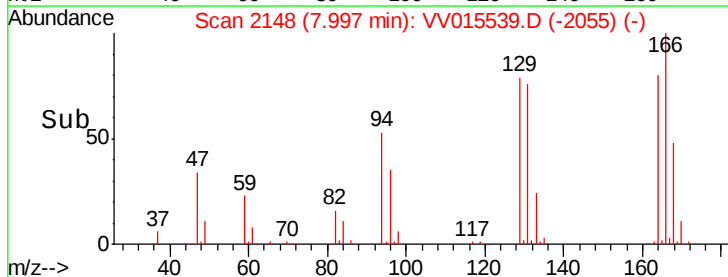
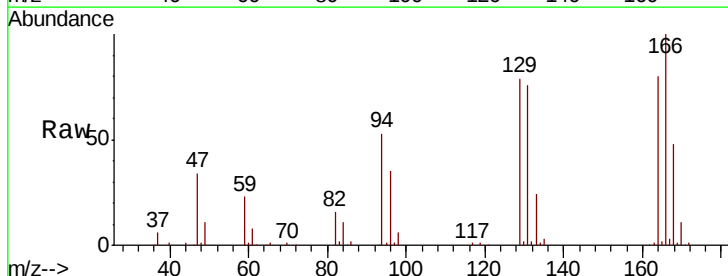
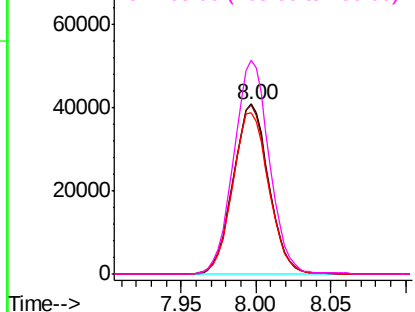
Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 82.95 (82.65 to 83.65): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

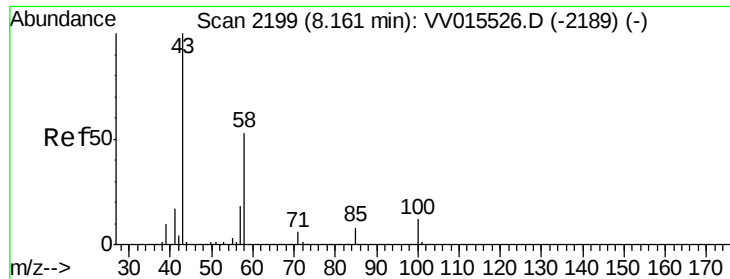


#47  
 Tetrachloroethene  
 Concen: 11.641 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV015539.D  
 Acq: 16 Apr 2020 16:11

Tgt Ion: 164 Resp: 67491  
 Ion Ratio Lower Upper  
 164 100  
 129 99.4 70.6 131.0  
 131 95.2 68.3 126.8  
 166 125.7 88.3 163.9

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

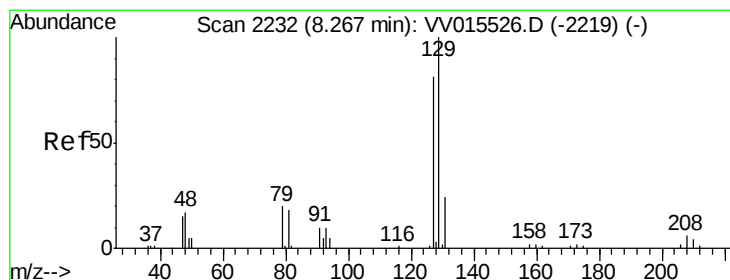
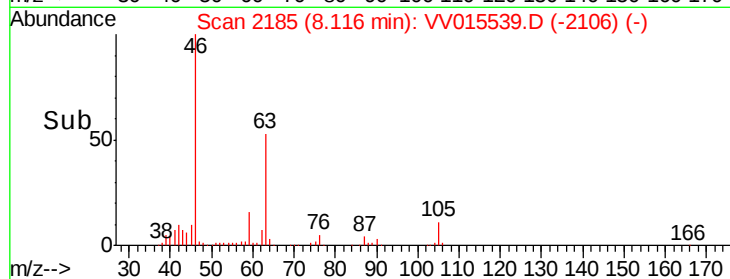
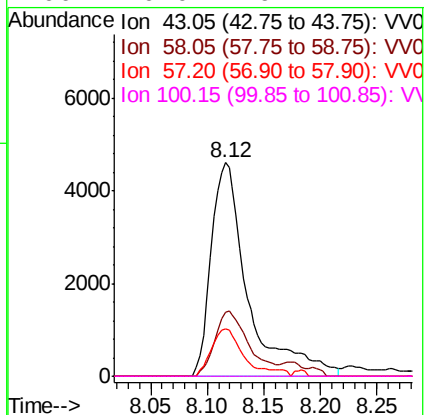
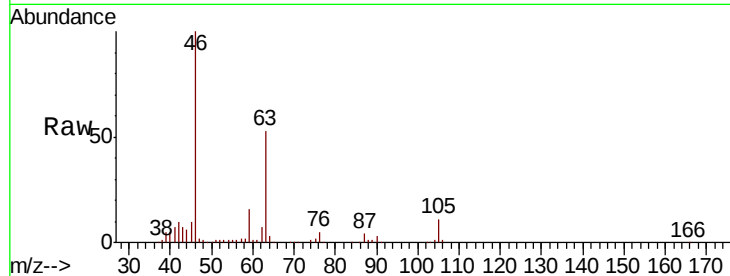




#48  
2-Hexanone  
Concen: 3.152 ug/L  
RT: 8.12 min Scan# 2185  
Delta R.T. -0.04 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 10428  
Ion Ratio Lower Upper  
43 100  
58 27.9 41.4 62.0#  
57 18.6 15.0 22.4  
100 0.0 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 11.263 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.27 min  
Lab File: VV015539.D  
Acq: 16 Apr 2020 16:11

Tgt Ion: 129 Resp: 65392  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.7 101.7#

