

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042720\  
 Data File : VV015733.D  
 Acq On : 27 Apr 2020 16:46  
 Operator : SY/MD  
 Sample : L2370-21DL 5X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 28 02:21:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Apr 28 02:16:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 131144   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 129013   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 60445    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 26722    | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 78.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 28776    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 45107    | 3.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.20%  |
| 20) 2-Butanone-d5              | 3.92   | 46    | 113896   | 51.76    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.52% |
| 24) Chloroform-d               | 4.38   | 84    | 76662    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 45107    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.00% |
| 32) Benzene-d6                 | 5.07   | 84    | 141436   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 48057    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.60%  |
| 41) Toluene-d8                 | 7.34   | 98    | 127568   | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.20%  |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 14207    | 3.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 74.60%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 83248    | 44.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.74%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 35017    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 51238    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.80%  |

## Target Compounds

|                               |      |    |       |              | Ovalue |
|-------------------------------|------|----|-------|--------------|--------|
| 3) Chloromethane              | 1.22 | 50 | 3628  | 0.373 ug/L # | 69     |
| 5) Vinyl chloride             | 1.32 | 62 | 65182 | 6.280 ug/L   | 98     |
| 8) Chloroethane               | 1.37 | 64 | 53856 | 7.901 ug/L # | 51     |
| 12) 1,1-Dichloroethene        | 2.12 | 96 | 591   | 0.077 ug/L # | 1      |
| 16) Methylene chloride        | 2.52 | 84 | 3033  | 0.322 ug/L   | 93     |
| 18) trans-1,2-Dichloroethene  | 2.78 | 96 | 2931  | 0.343 ug/L   | 92     |
| 22) cis-1,2-Dichloroethene    | 3.94 | 96 | 42143 | 4.460 ug/L   | 98     |
| 25) Chloroform                | 4.41 | 83 | 2052  | 0.115 ug/L   | 97     |
| 27) 1,2-Dichloroethane        | 5.08 | 62 | 1044  | 0.089 ug/L # | 78     |
| 30) Cyclohexane               | 4.71 | 56 | 14141 | 0.905 ug/L   | 99     |
| 35) Methylcyclohexane         | 6.16 | 83 | 7681  | 0.492 ug/L   | 90     |
| 37) 1,2-Dichloropropane       | 6.10 | 63 | 6118  | 0.653 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.01 | 75 | 1294  | 0.099 ug/L # | 66     |
| 44) trans-1,3-Dichloropropene | 7.65 | 75 | 726   | 0.066 ug/L   | 89     |
| 48) 2-Hexanone                | 8.17 | 43 | 5075  | 1.170 ug/L # | 88     |

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Sample : L2370-21DL 5X  
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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

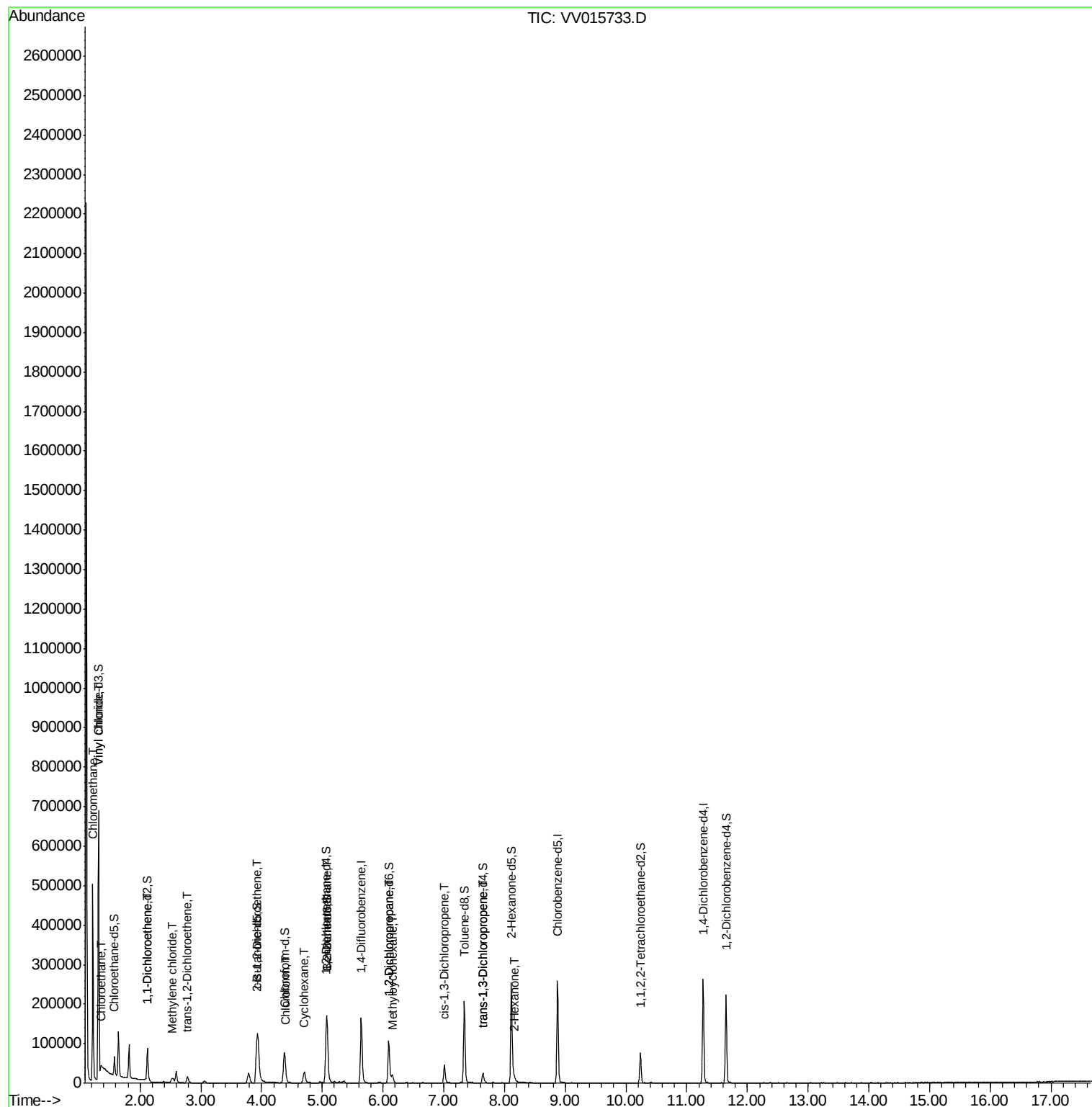
Quant Time: Apr 28 02:21:04 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Apr 28 02:16:08 2020  
Response via : Initial Calibration

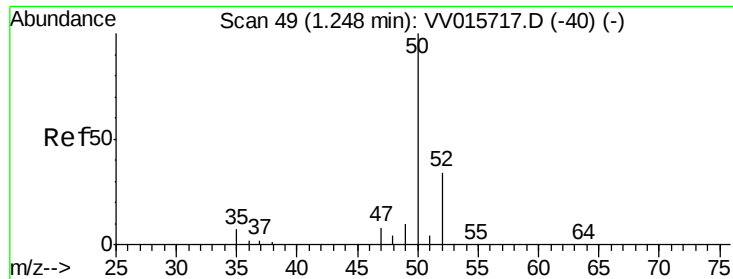
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                             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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV042720\  
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.373 ug/L

RT: 1.22 min Scan# 41

Delta R.T. -0.03 min

Lab File: VV015733.D

Acq: 27 Apr 2020 16:46

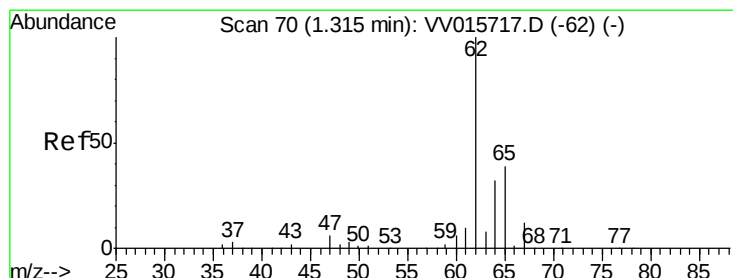
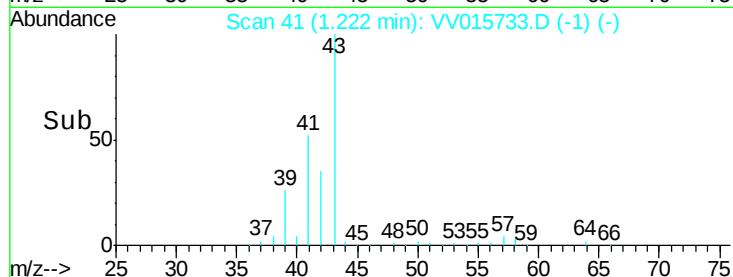
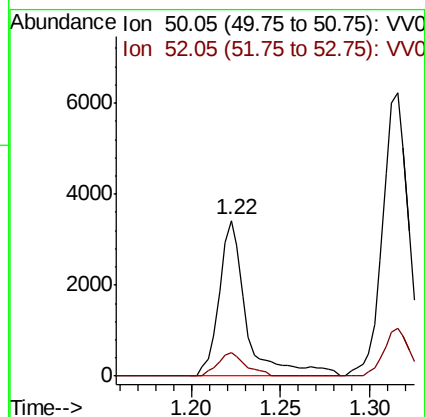
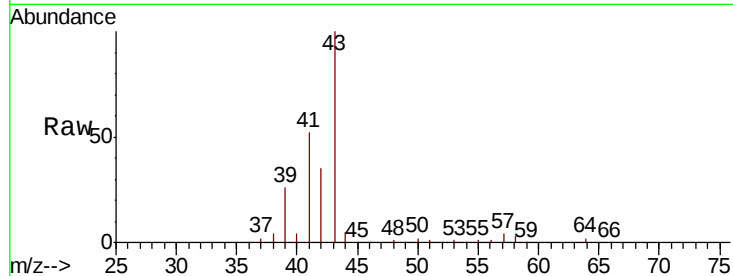
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 50 Resp: 3628

Ion Ratio Lower Upper

50 100

52 15.0 22.9 42.5#



#5

Vinyl chloride

Concen: 6.280 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015733.D

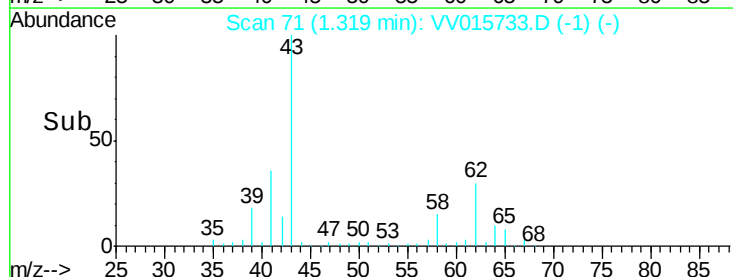
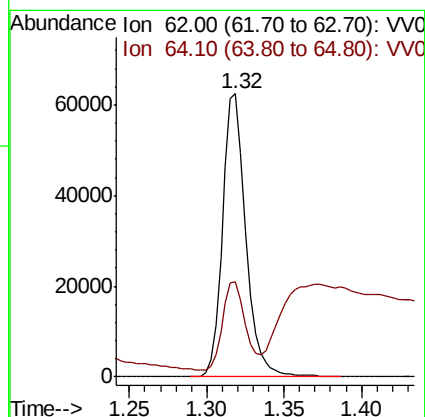
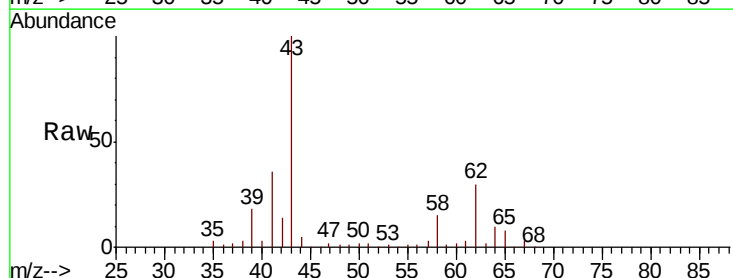
Acq: 27 Apr 2020 16:46

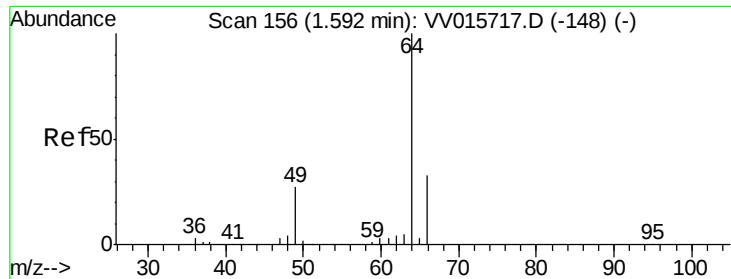
Tgt Ion: 62 Resp: 65182

Ion Ratio Lower Upper

62 100

64 33.6 22.7 42.1

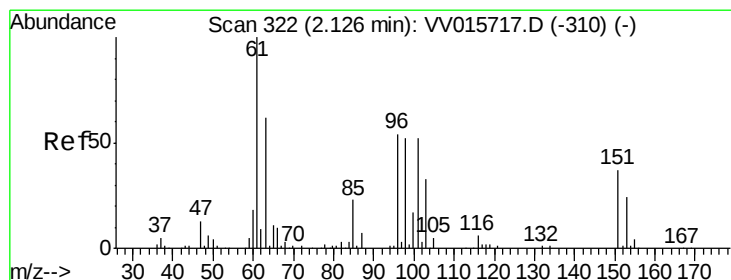
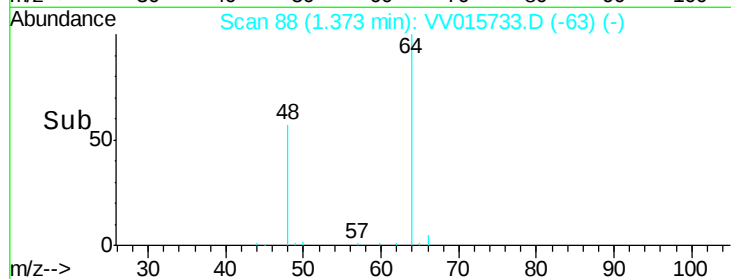
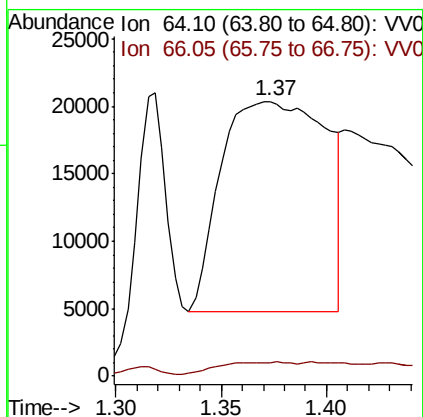
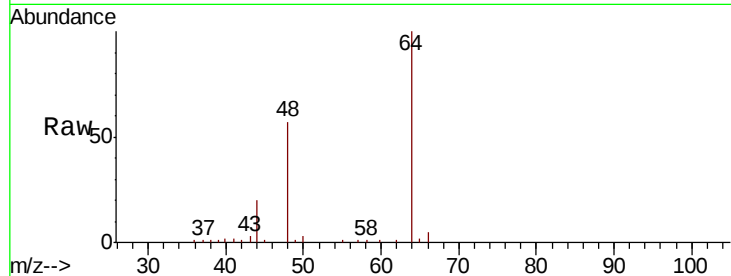




#8  
 Chloroethane  
 Concen: 7.901 ug/L  
 RT: 1.37 min Scan# 88  
 Delta R.T. -0.22 min  
 Lab File: VV015733.D  
 Acq: 27 Apr 2020 16:46

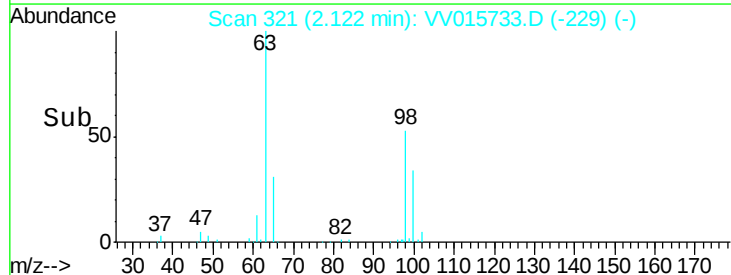
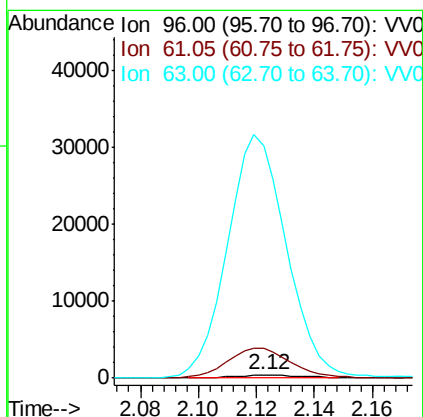
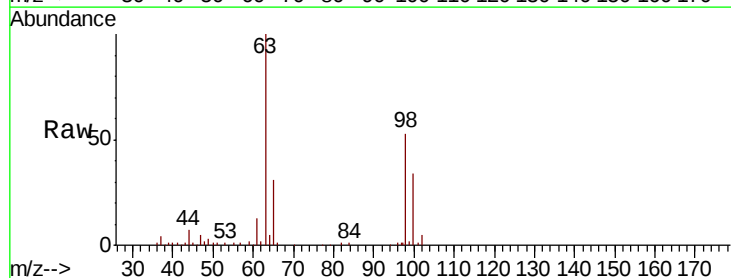
Instrument :  
 MSVOA\_V  
 ClientSampleId :

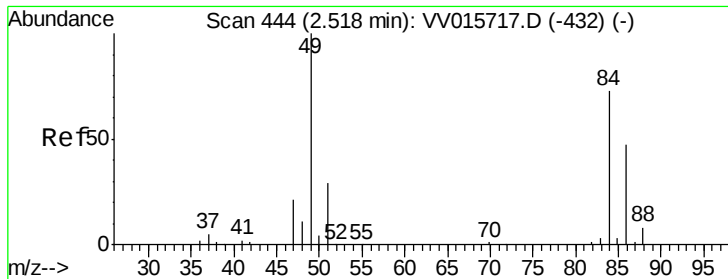
Tot Ion: 64 Resp: 53856  
 Ion Ratio Lower Upper  
 64 100  
 66 4.7 22.3 41.5#



#12  
 1,1-Dichloroethene  
 Concen: 0.077 ug/L  
 RT: 2.12 min Scan# 321  
 Delta R.T. -0.00 min  
 Lab File: VV015733.D  
 Acq: 27 Apr 2020 16:46

Tgt Ion: 96 Resp: 591  
 Ion Ratio Lower Upper  
 96 100  
 61 952.1 130.1 241.7#  
 63 7473.9 91.4 169.8#

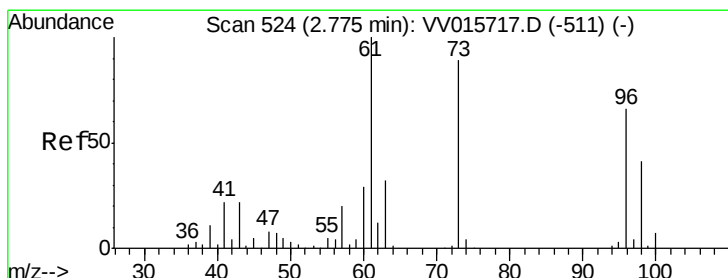
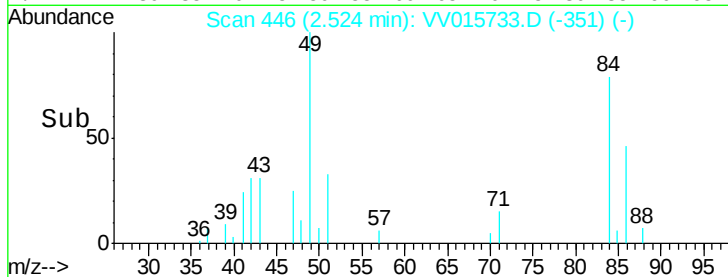
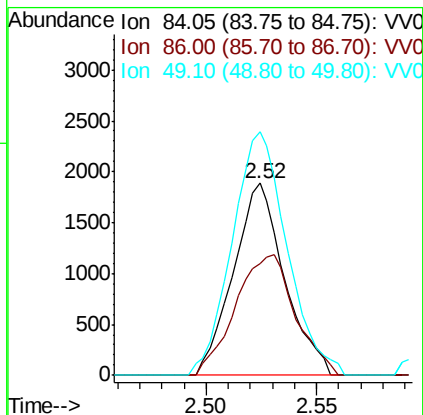
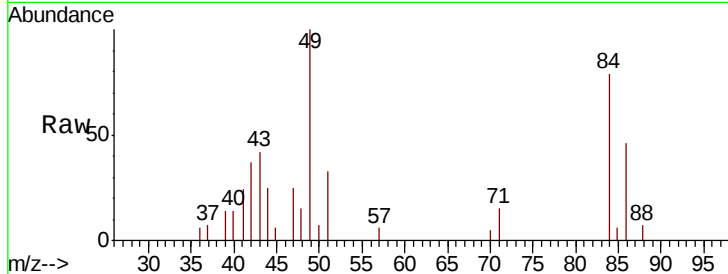




#16  
Methylene chloride  
Concen: 0.322 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.01 min  
Lab File: VV015733.D  
Acq: 27 Apr 2020 16:46

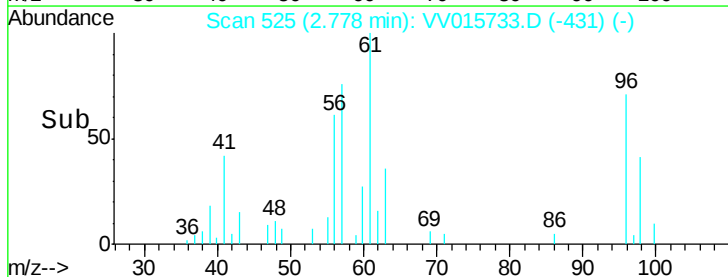
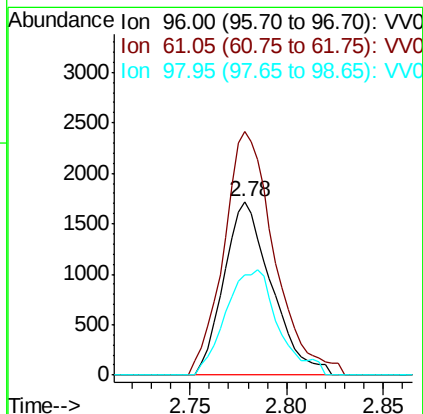
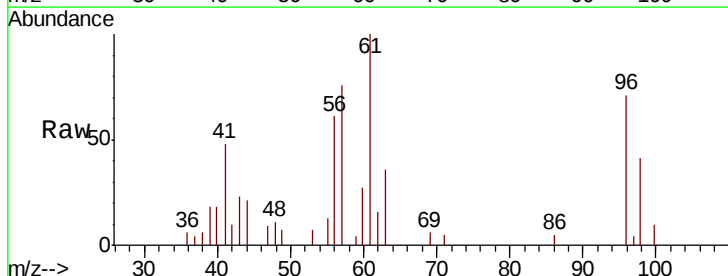
Instrument :  
MSVOA\_V  
ClientSampleId :

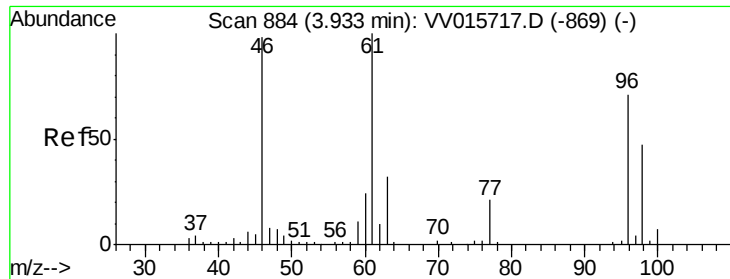
Tot Ion: 84 Resp: 3033  
Ion Ratio Lower Upper  
84 100  
86 58.3 45.1 83.7  
49 126.6 94.4 175.4



#18  
trans-1,2-Dichloroethene  
Concen: 0.343 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV015733.D  
Acq: 27 Apr 2020 16:46

Tgt Ion: 96 Resp: 2931  
Ion Ratio Lower Upper  
96 100  
61 140.4 105.5 195.9  
98 57.8 44.2 82.0

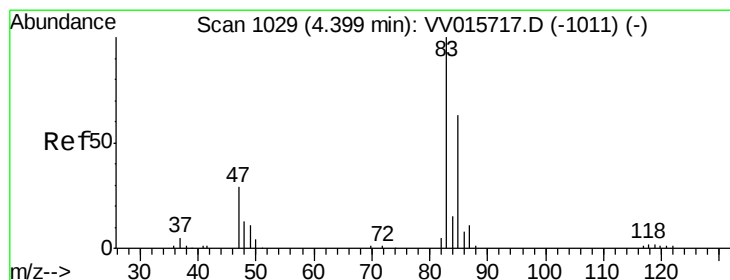
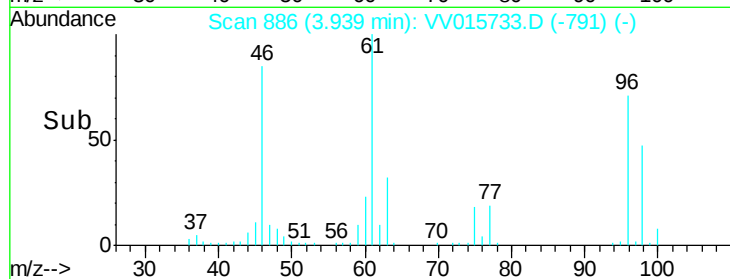
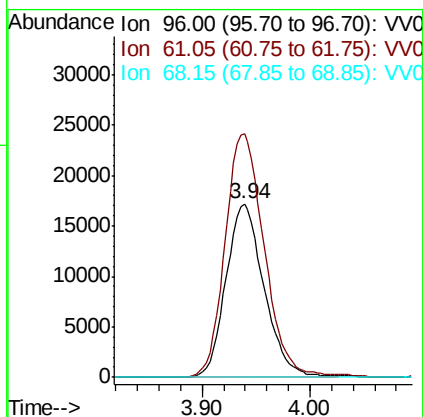
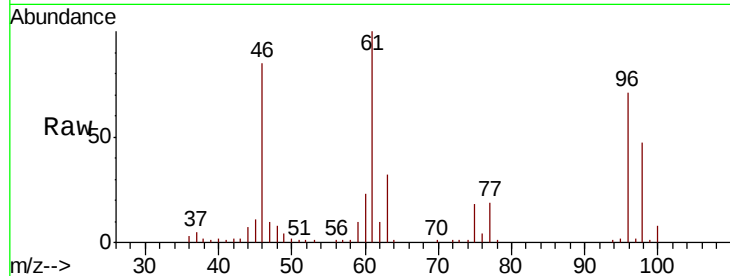




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.460 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. 0.01 min  
 Lab File: VV015733.D  
 Acq: 27 Apr 2020 16:46

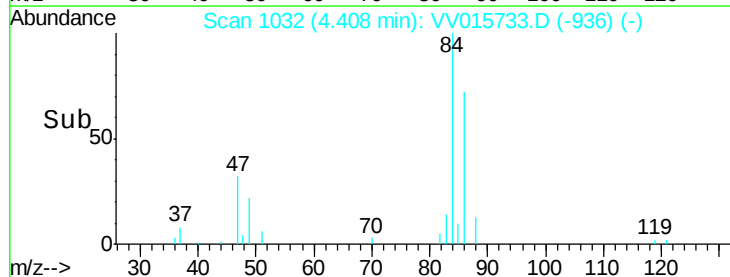
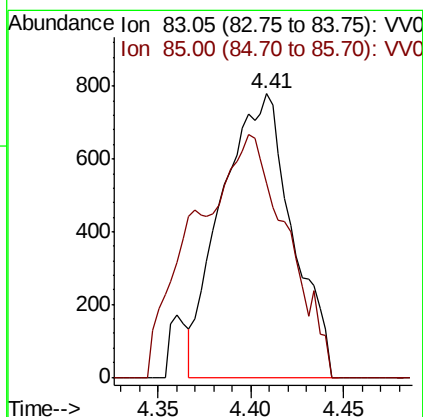
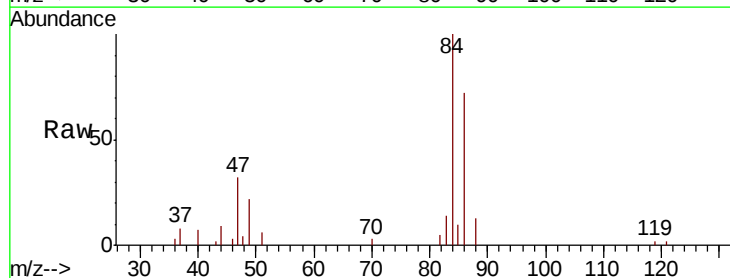
Instrument :  
 MSVOA\_V  
 ClientSampleId :

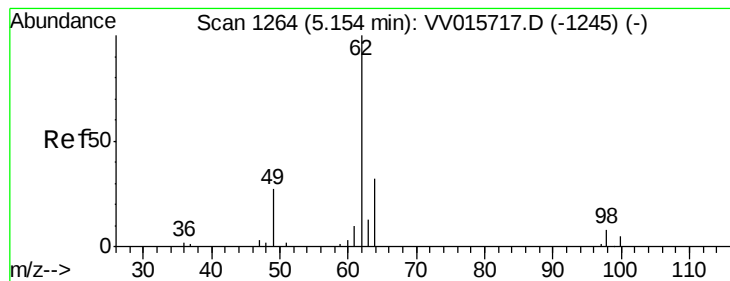
Tot Ion: 96 Resp: 42143  
 Ion Ratio Lower Upper  
 96 100  
 61 140.3 96.4 179.0  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 0.115 ug/L  
 RT: 4.41 min Scan# 1032  
 Delta R.T. 0.01 min  
 Lab File: VV015733.D  
 Acq: 27 Apr 2020 16:46

Tgt Ion: 83 Resp: 2052  
 Ion Ratio Lower Upper  
 83 100  
 85 68.5 46.1 85.5





#27

1,2-Dichloroethane

Concen: 0.089 ug/L

RT: 5.08 min Scan# 1240

Delta R.T. -0.08 min

Lab File: VV015733.D

Acq: 27 Apr 2020 16:46

Instrument :

MSVOA\_V

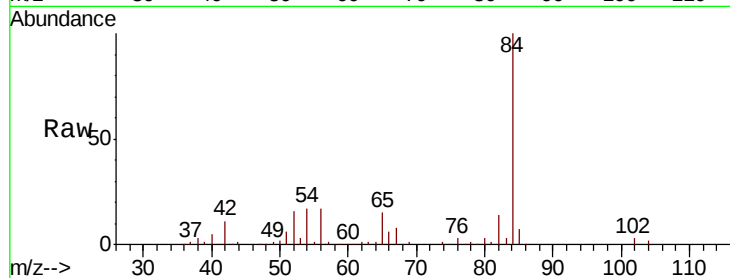
ClientSampleId :

Tot Ion: 62 Resp: 1044

Ion Ratio Lower Upper

62 100

98 0.0 6.3 9.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

5.08

500

400

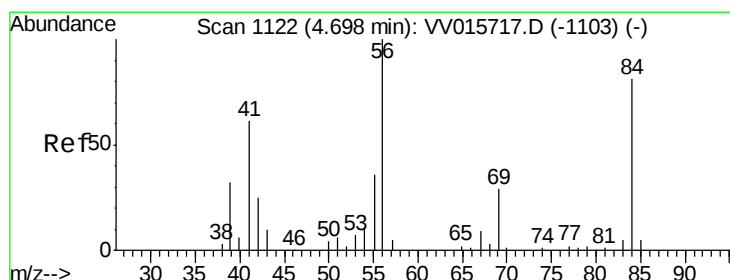
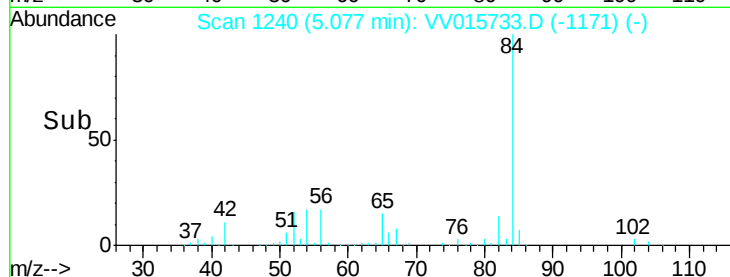
300

200

100

0

Time-->



#30

Cyclohexane

Concen: 0.905 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV015733.D

Acq: 27 Apr 2020 16:46

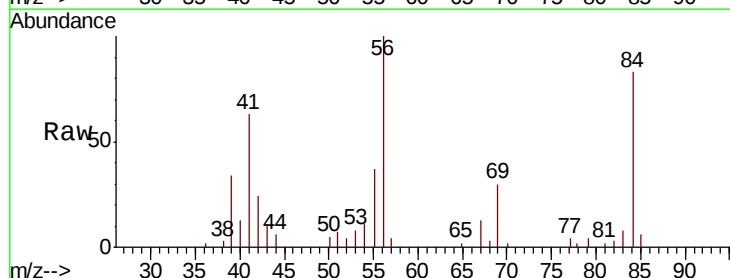
Tgt Ion: 56 Resp: 14141

Ion Ratio Lower Upper

56 100

69 31.1 23.9 35.9

84 83.2 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

4.71

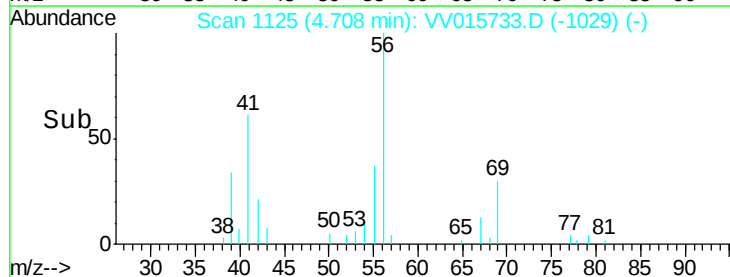
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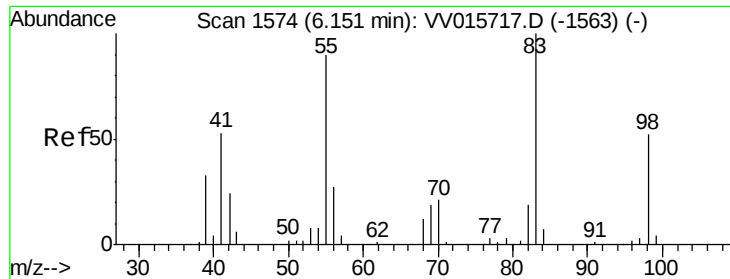
4000

2000

0

Time-->

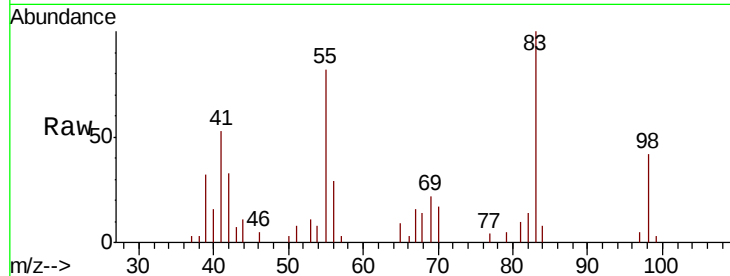




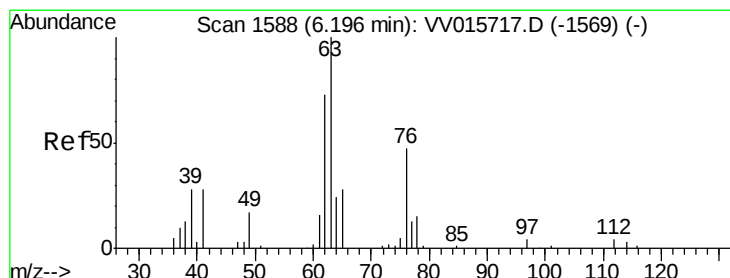
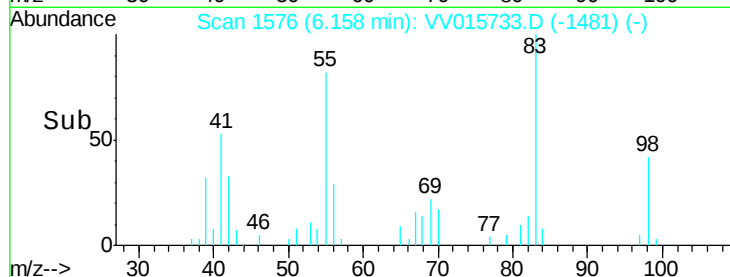
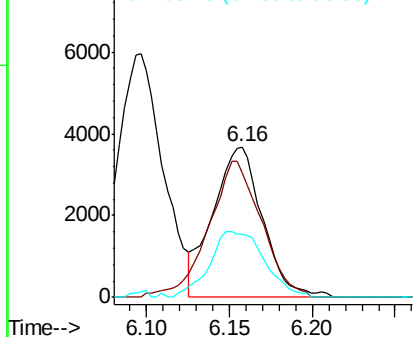
#35  
Methvlcvclohexane  
Concen: 0.492 ug/L  
RT: 6.16 min Scan# 1576  
Delta R.T. 0.01 min  
Lab File: VV015733.D  
Acq: 27 Apr 2020 16:46

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 7681  
Ion Ratio Lower Upper  
83 100  
55 96.1 66.6 99.8  
98 48.3 39.5 59.3

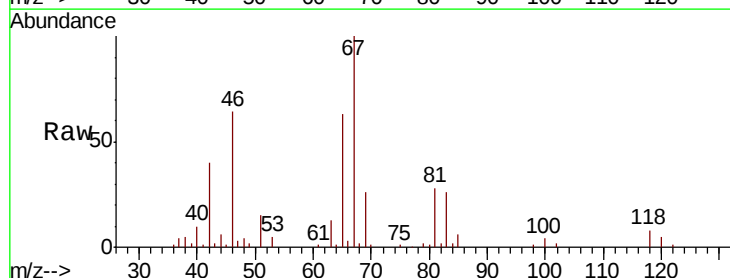


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

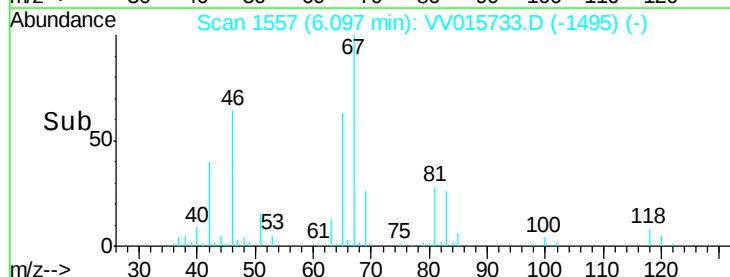
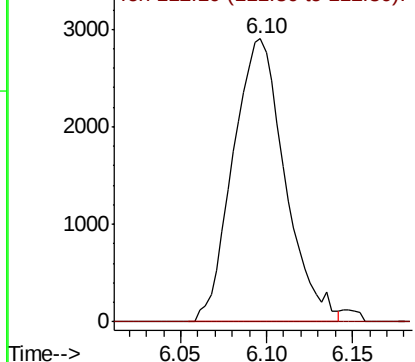


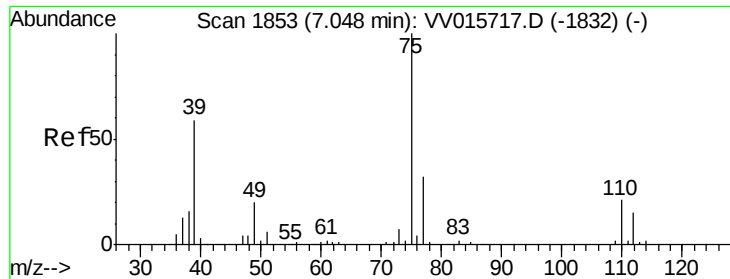
#37  
1,2-Dichloropropane  
Concen: 0.653 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV015733.D  
Acq: 27 Apr 2020 16:46

Tgt Ion: 63 Resp: 6118  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#



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

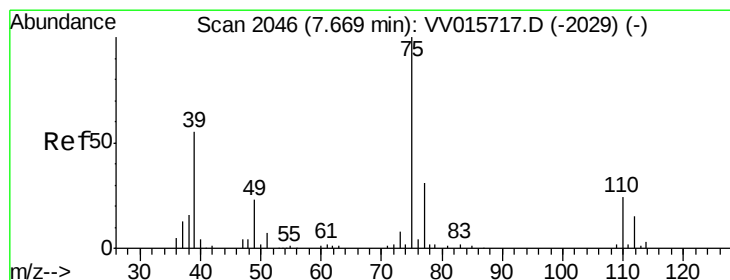
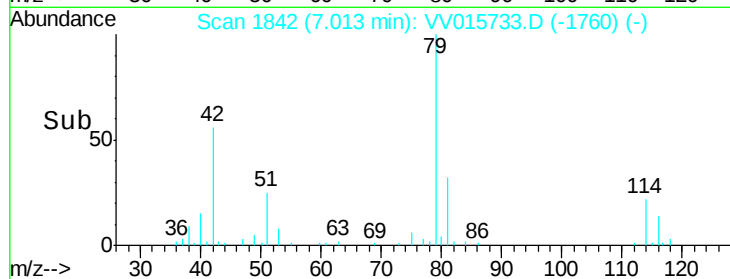
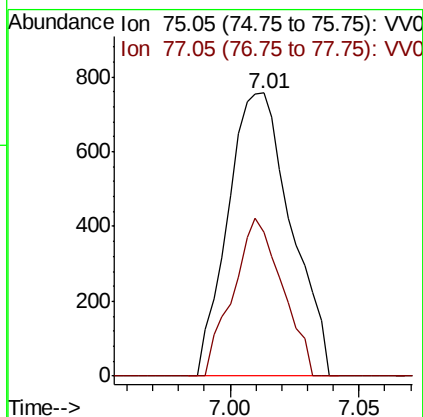
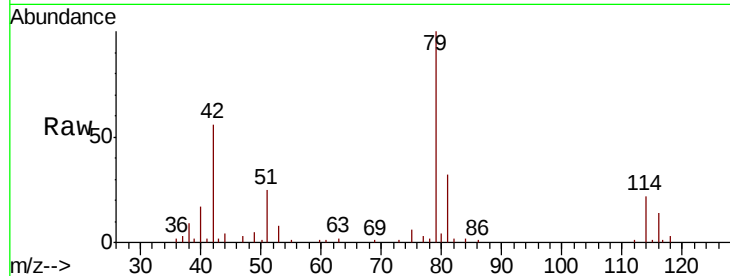




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.099 ug/L  
 RT: 7.01 min Scan# 1842  
 Delta R.T. -0.04 min  
 Lab File: VV015733.D  
 Acq: 27 Apr 2020 16:46

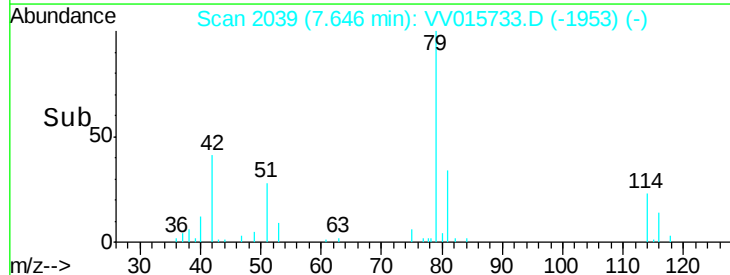
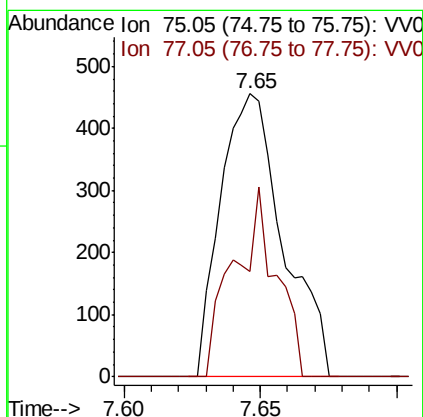
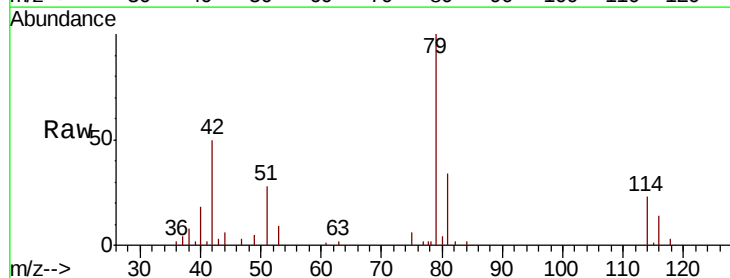
Instrument :  
 MSVOA\_V  
 ClientSampleId :

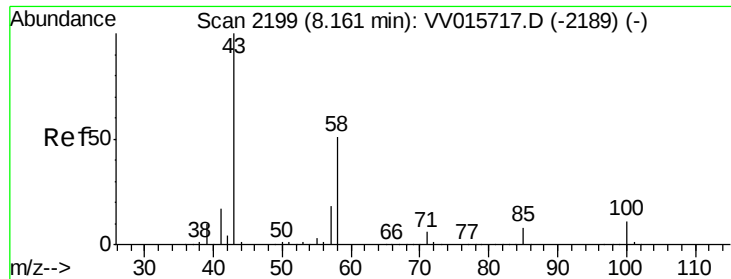
Tot Ion: 75 Resp: 1294  
 Ion Ratio Lower Upper  
 75 100  
 77 50.9 22.3 41.5#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.066 ug/L  
 RT: 7.65 min Scan# 2039  
 Delta R.T. -0.02 min  
 Lab File: VV015733.D  
 Acq: 27 Apr 2020 16:46

Tgt Ion: 75 Resp: 726  
 Ion Ratio Lower Upper  
 75 100  
 77 37.3 21.8 40.6





#48

2-Hexanone

Concen: 1.170 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV015733.D

Acq: 27 Apr 2020 16:46

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 5075

Ion Ratio Lower Upper

43 100

58 46.0 41.1 61.7

57 28.1 15.0 22.4#

100 4.7 9.0 13.4#

