

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041720\  
 Data File : VV015547.D  
 Acq On : 17 Apr 2020 12:06  
 Operator : SY/MD  
 Sample : L2320-01DL 5X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 18 00:39:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 18 00:37:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 105777   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 97962    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 48595    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 23628    | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.00% |
| 7) Chloroethane-d5             | 1.57   | 69    | 22075    | 4.37     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 35577    | 3.08     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 61.60% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 68941    | 44.74    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.48% |
| 24) Chloroform-d               | 4.37   | 84    | 50754    | 4.18     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.60% |
| 26) 1,2-Dichloroethane-d4      | 5.05   | 65    | 29611    | 4.52     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.40% |
| 32) Benzene-d6                 | 5.07   | 84    | 98988    | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 31224    | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.20% |
| 41) Toluene-d8                 | 7.33   | 98    | 89910    | 4.33     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.60% |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 12298    | 4.18     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.60% |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 57616    | 40.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 81.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 19791    | 3.68     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 73.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 33464    | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.80% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.13 | 85  | 2343  | 0.224 ug/L   | 93     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 15465 | 1.259 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101 | 740   | 0.107 ug/L # | 82     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 1598  | 0.241 ug/L # | 1      |
| 16) Methylene chloride         | 2.52 | 84  | 1858  | 0.239 ug/L   | 89     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 2926  | 0.165 ug/L # | 89     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 1181  | 0.084 ug/L # | 84     |
| 22) cis-1,2-Dichloroethene     | 3.93 | 96  | 7256  | 0.934 ug/L   | 97     |
| 25) Chloroform                 | 4.40 | 83  | 2921  | 0.202 ug/L   | 98     |
| 34) Trichloroethene            | 5.93 | 95  | 71059 | 9.004 ug/L   | 99     |
| 37) 1,2-Dichloropropane        | 6.09 | 63  | 3944  | 0.542 ug/L # | 86     |
| 44) trans-1,3-Dichloropropene  | 7.64 | 75  | 682   | 0.072 ug/L # | 53     |
| 45) 1,1,2-Trichloroethane      | 7.99 | 97  | 593   | 0.121 ug/L # | 18     |
| 47) Tetrachloroethene          | 7.99 | 164 | 50292 | 8.602 ug/L   | 99     |
| 48) 2-Hexanone                 | 8.17 | 43  | 1429  | 0.428 ug/L # | 91     |
| 49) Dibromochloromethane       | 7.99 | 129 | 48883 | 8.348 ug/L # | 10     |

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Operator : SY/MD  
Sample : L2320-01DL 5X  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

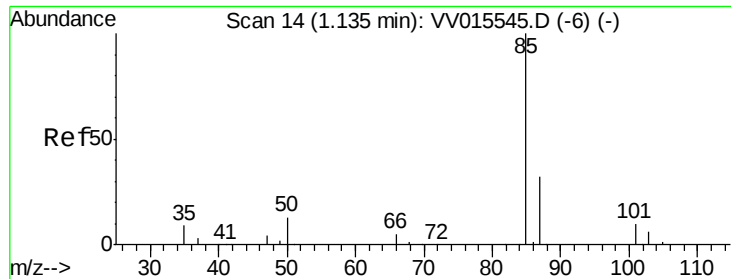
Quant Time: Apr 18 00:39:47 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Apr 18 00:37:52 2020  
Response via : Initial Calibration

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

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





#2

Dichlorodifluoromethane

Concen: 0.224 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.00 min

Lab File: VV015547.D

Acq: 17 Apr 2020 12:06

Instrument :

MSVOA\_V

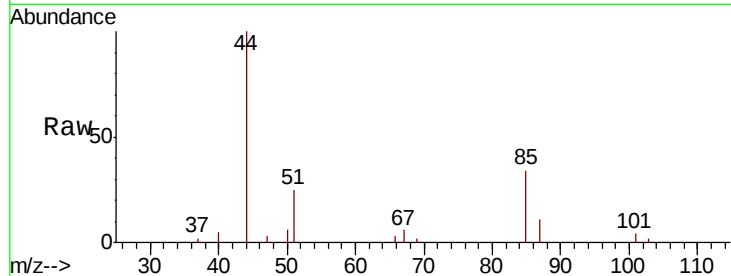
ClientSampled :

Tot Ion: 85 Resp: 2343

Ion Ratio Lower Upper

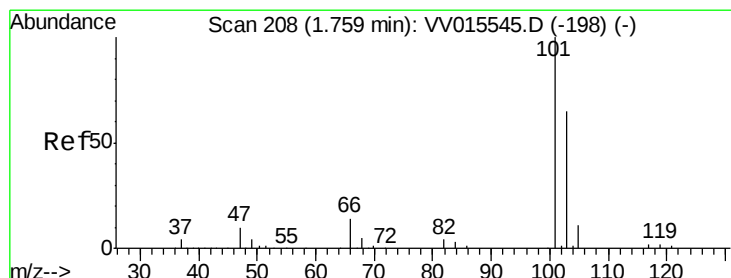
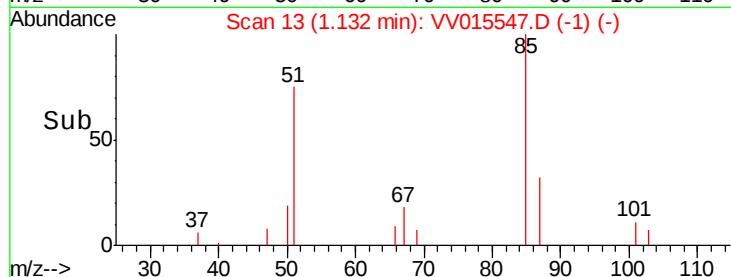
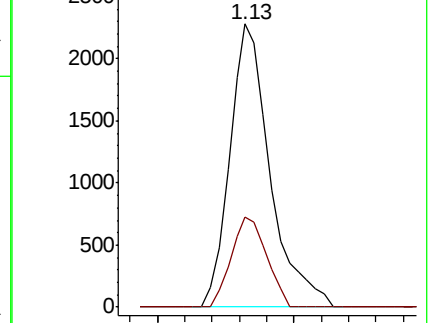
85 100

87 27.9 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#9

Trichlorofluoromethane

Concen: 1.259 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV015547.D

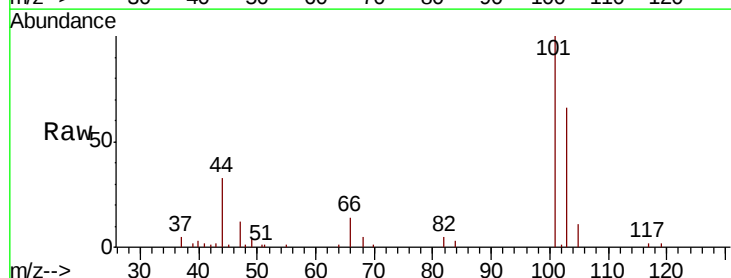
Acq: 17 Apr 2020 12:06

Tgt Ion: 101 Resp: 15465

Ion Ratio Lower Upper

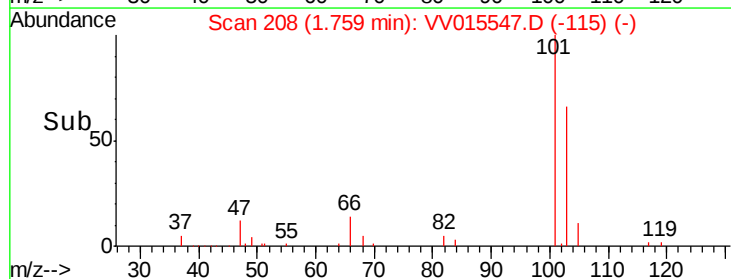
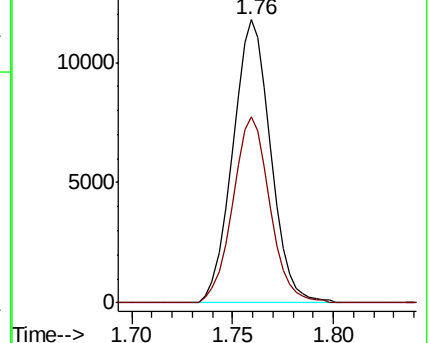
101 100

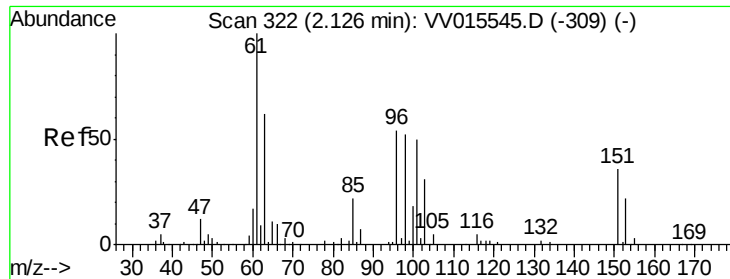
103 64.6 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.107 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV015547.D

Acq: 17 Apr 2020 12:06

Instrument :

MSVOA\_V

ClientSampleId :

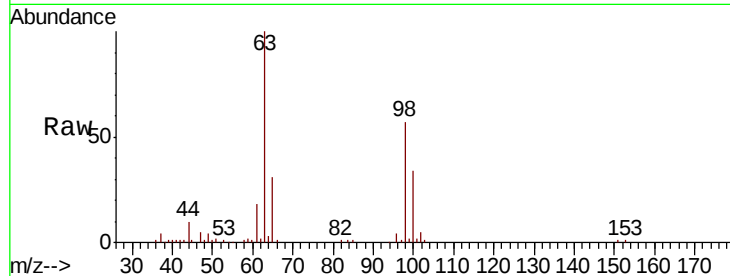
Tot Ion:101 Resp: 740

Ion Ratio Lower Upper

101 100

85 38.4 36.3 54.5

151 53.5 58.2 87.4#



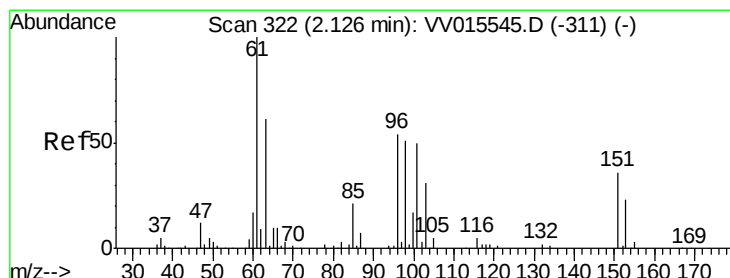
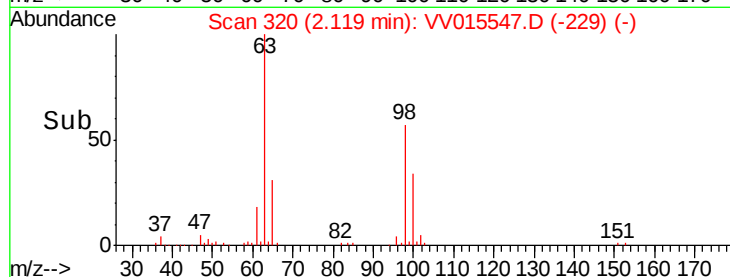
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V

2.12

Time-->



#12

1,1-Dichloroethene

Concen: 0.241 ug/L

RT: 2.13 min Scan# 322

Delta R.T. 0.00 min

Lab File: VV015547.D

Acq: 17 Apr 2020 12:06

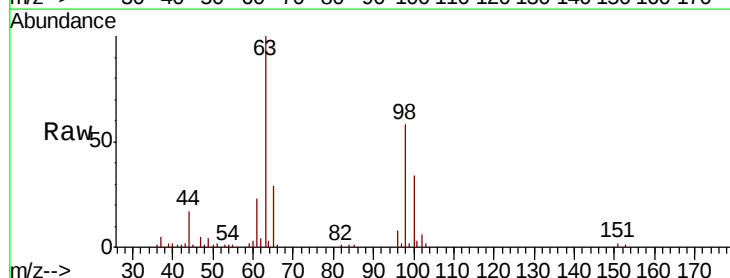
Tgt Ion: 96 Resp: 1598

Ion Ratio Lower Upper

96 100

61 308.8 127.7 237.1#

63 1331.1 75.1 139.5#



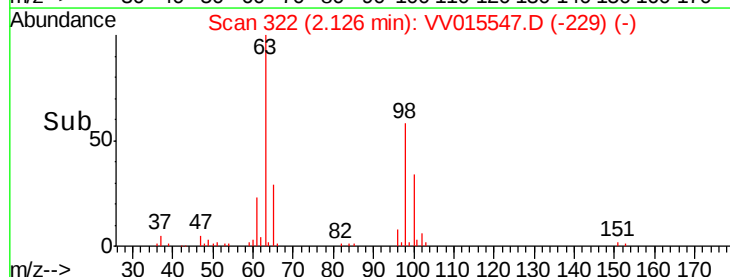
Abundance Ion 96.00 (95.70 to 96.70): VV0

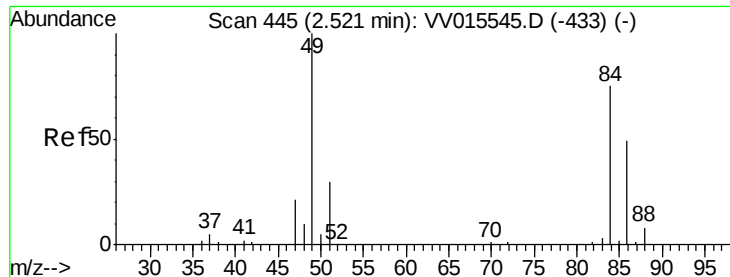
Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

2.13

Time-->

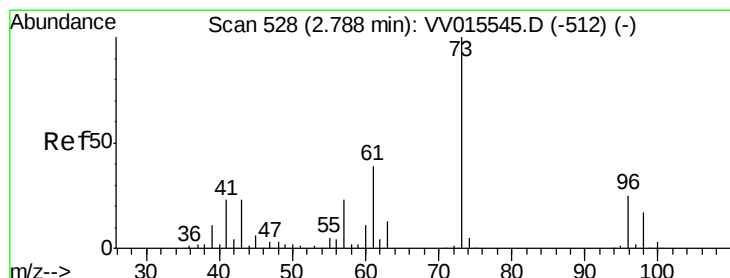
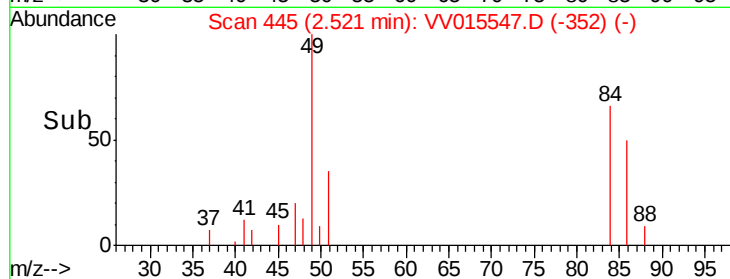
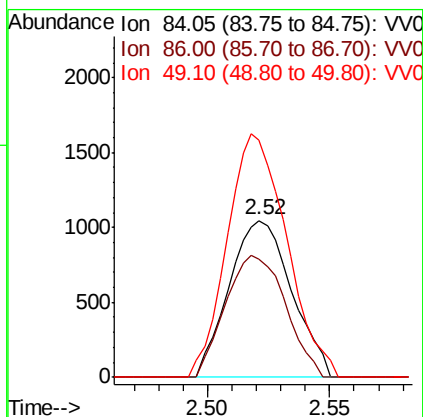
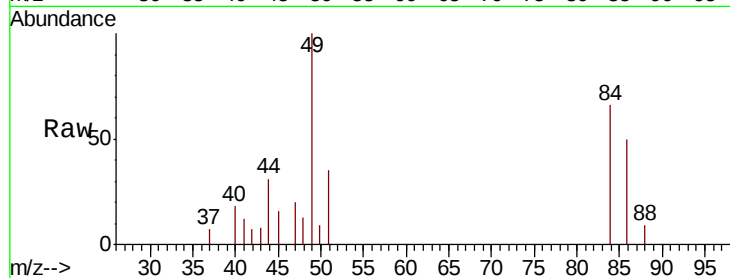




#16  
Methvlene chloride  
Concen: 0.239 ug/L  
RT: 2.52 min Scan# 445  
Delta R.T. 0.00 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

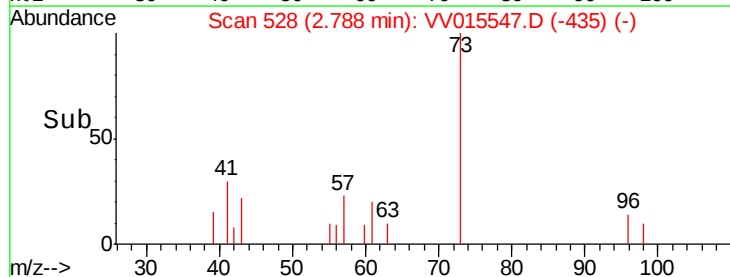
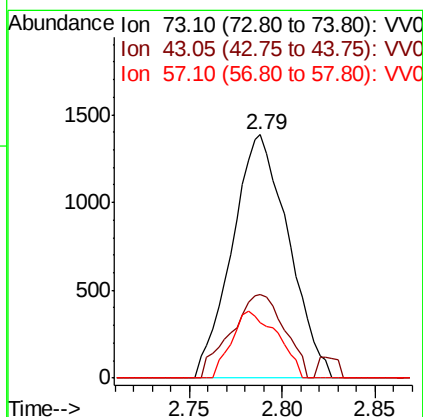
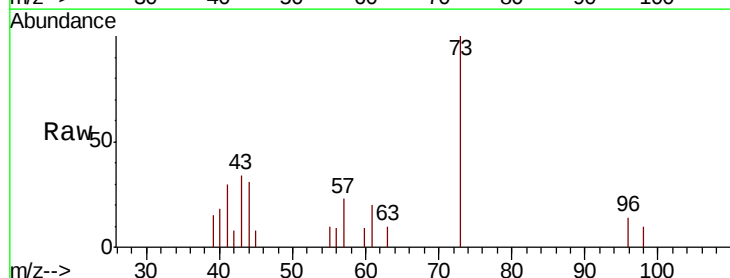
Instrument :  
MSVOA\_V  
ClientSampleId :

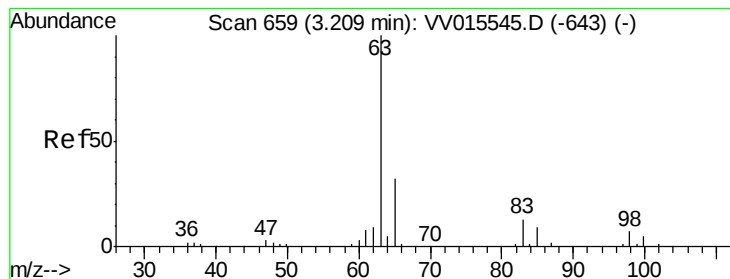
Tot Ion: 84 Resp: 1858  
Ion Ratio Lower Upper  
84 100  
86 75.7 45.1 83.7  
49 151.2 97.9 181.7



#17  
Methyl tert-butyl Ether  
Concen: 0.165 ug/L  
RT: 2.79 min Scan# 528  
Delta R.T. 0.00 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

Tgt Ion: 73 Resp: 2926  
Ion Ratio Lower Upper  
73 100  
43 32.6 18.3 27.5#  
57 22.3 18.4 27.6





#19

1,1-Dichloroethane

Concen: 0.084 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV015547.D

Acq: 17 Apr 2020 12:06

Instrument :

MSVOA\_V

ClientSampleId :

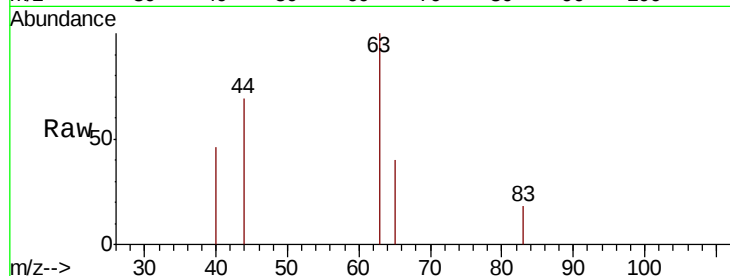
Tot Ion: 63 Resp: 1181

Ion Ratio Lower Upper

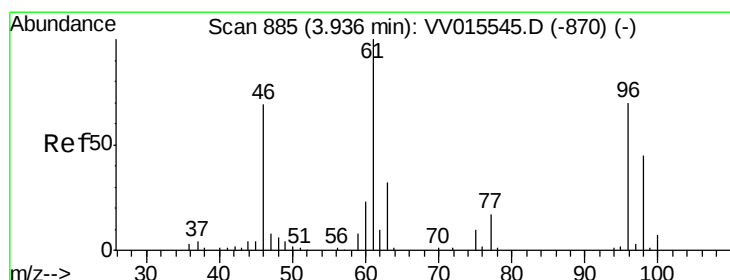
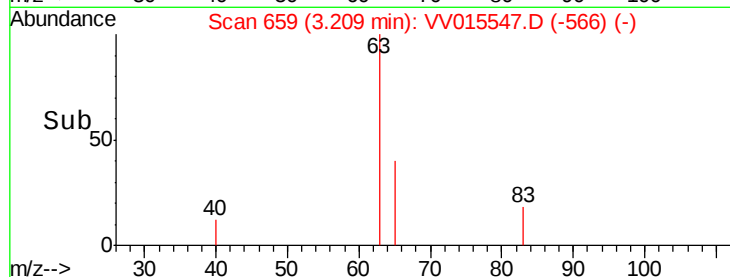
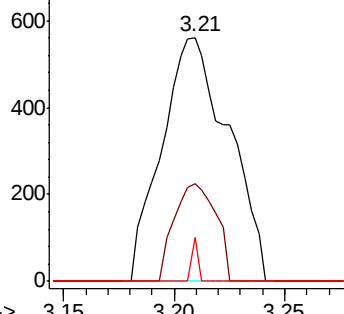
63 100

65 40.1 21.3 39.6#

83 18.2 9.4 17.6#



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: 0.934 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.00 min

Lab File: VV015547.D

Acq: 17 Apr 2020 12:06

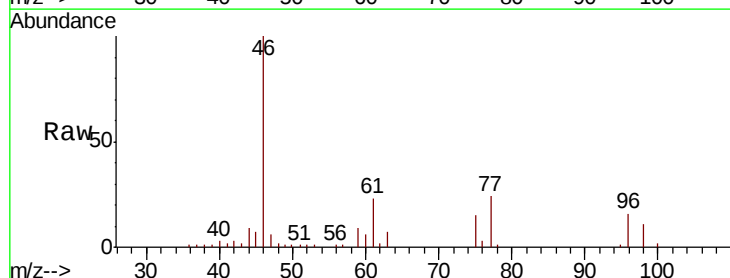
Tgt Ion: 96 Resp: 7256

Ion Ratio Lower Upper

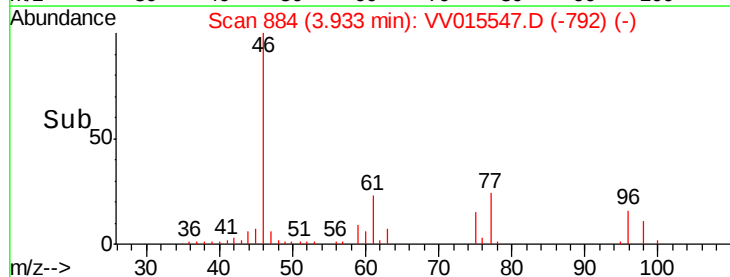
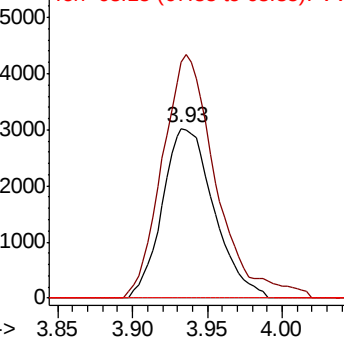
96 100

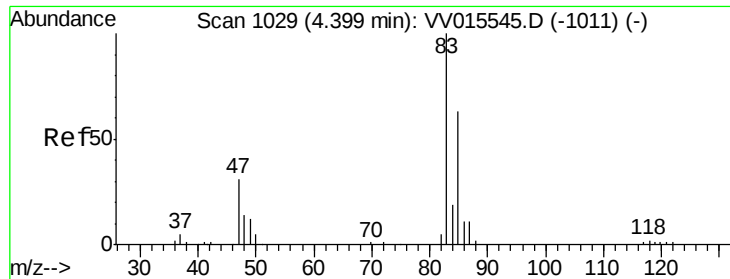
61 139.2 100.0 185.8

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

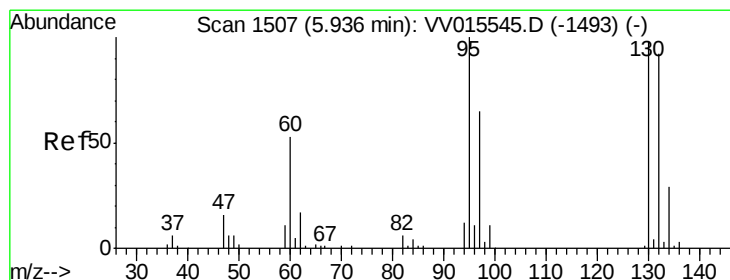
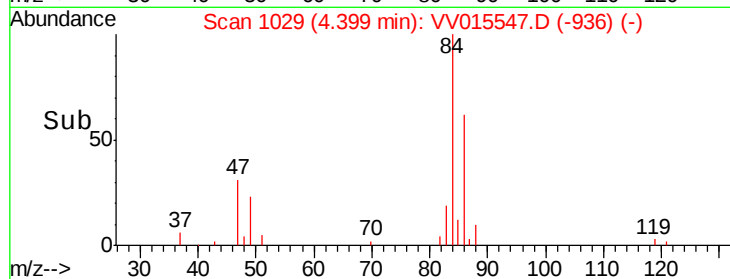
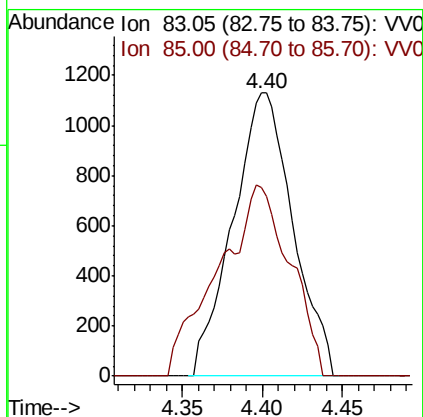
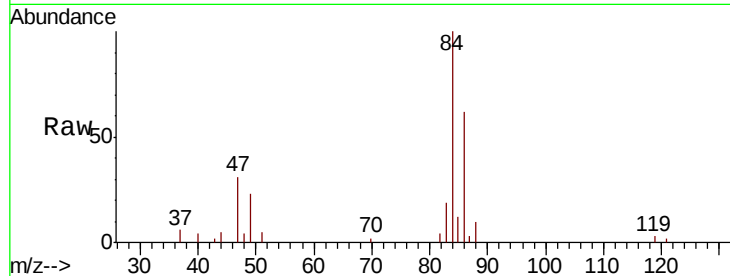




#25  
Chloroform  
Concen: 0.202 ug/L  
RT: 4.40 min Scan# 1029  
Delta R.T. 0.00 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

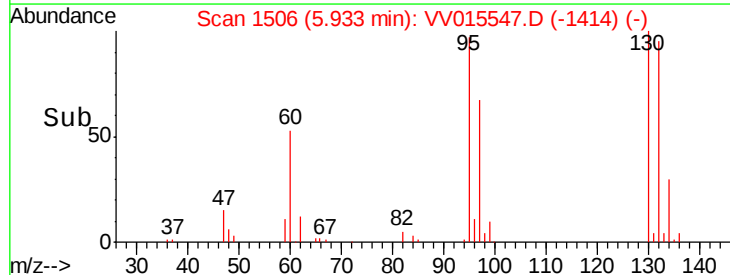
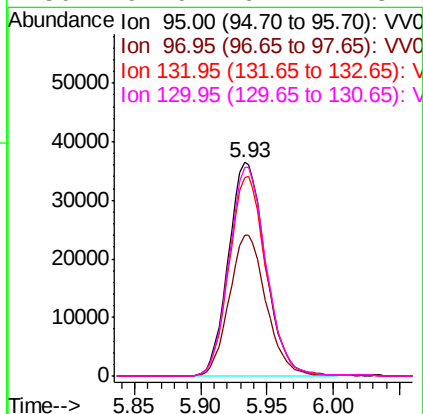
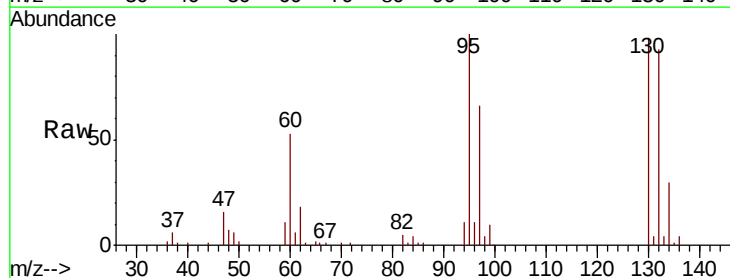
Instrument :  
MSVOA\_V  
ClientSampled :

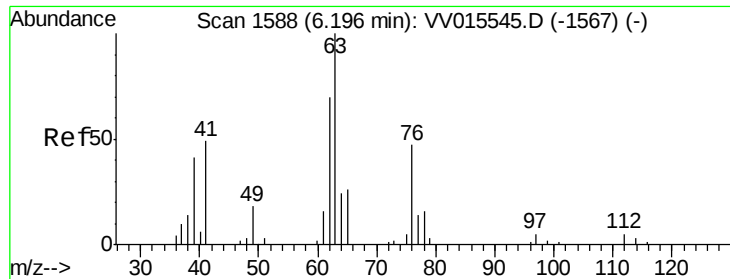
Tot Ion: 83 Resp: 2921  
Ion Ratio Lower Upper  
83 100  
85 66.9 45.9 85.3



#34  
Trichloroethene  
Concen: 9.004 ug/L  
RT: 5.93 min Scan# 1506  
Delta R.T. -0.00 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

Tgt Ion: 95 Resp: 71059  
Ion Ratio Lower Upper  
95 100  
97 65.7 45.4 84.4  
132 92.8 64.8 120.4  
130 97.9 67.4 125.2

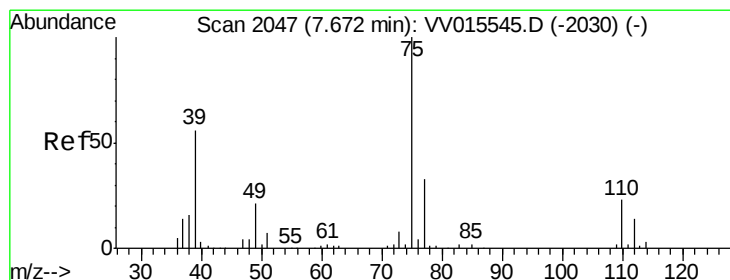
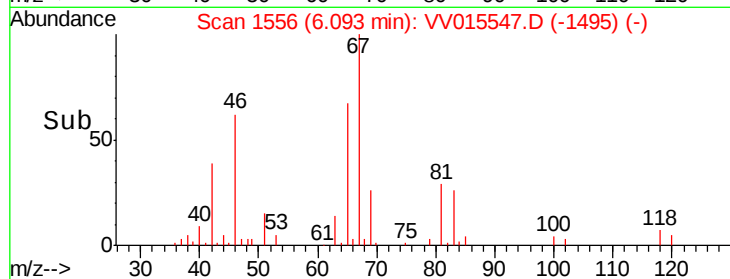
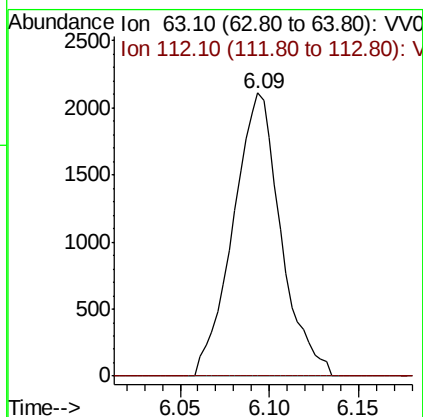
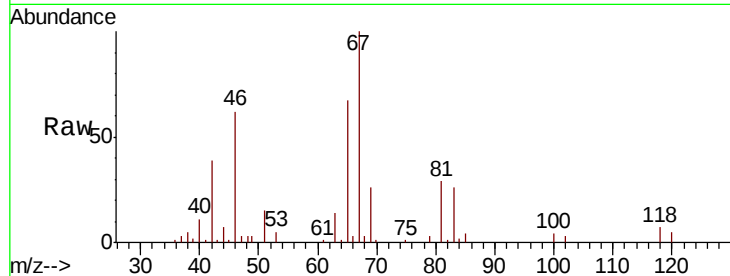




#37  
 1,2-Dichloropropane  
 Concen: 0.542 ug/L  
 RT: 6.09 min Scan# 1556  
 Delta R.T. -0.10 min  
 Lab File: VV015547.D  
 Acq: 17 Apr 2020 12:06

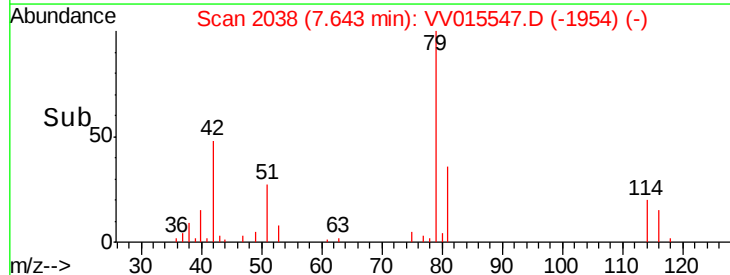
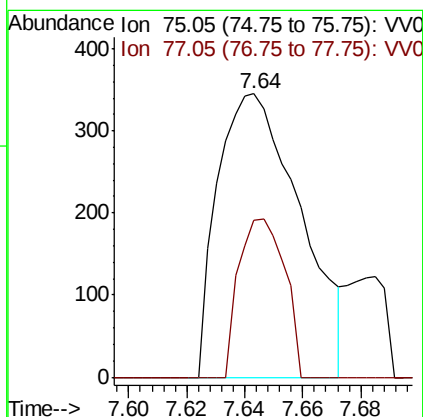
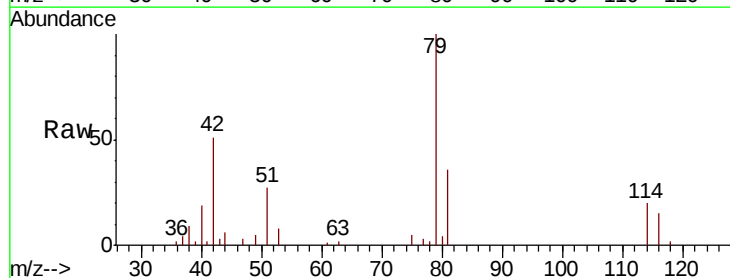
Instrument :  
 MSVOA\_V  
 ClientSampleId :

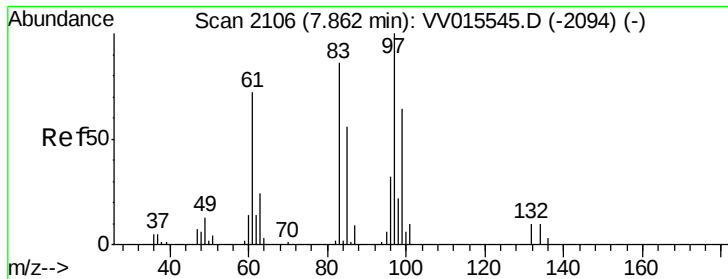
Tot Ion: 63 Resp: 3944  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.6 5.4#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.072 ug/L  
 RT: 7.64 min Scan# 2038  
 Delta R.T. -0.03 min  
 Lab File: VV015547.D  
 Acq: 17 Apr 2020 12:06

Tgt Ion: 75 Resp: 682  
 Ion Ratio Lower Upper  
 75 100  
 77 55.4 21.0 39.0#

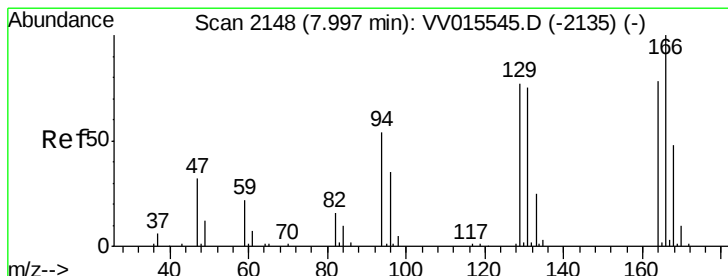
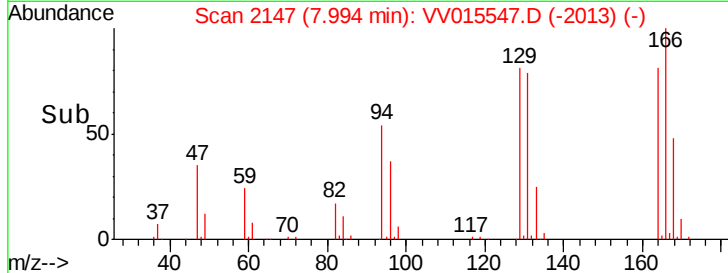
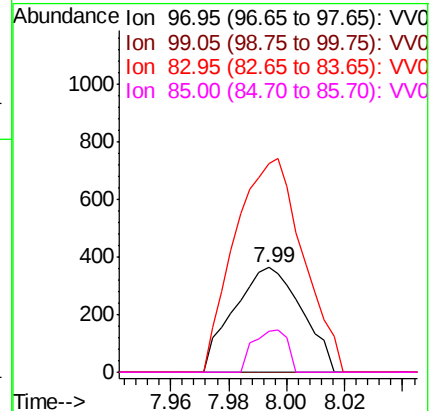
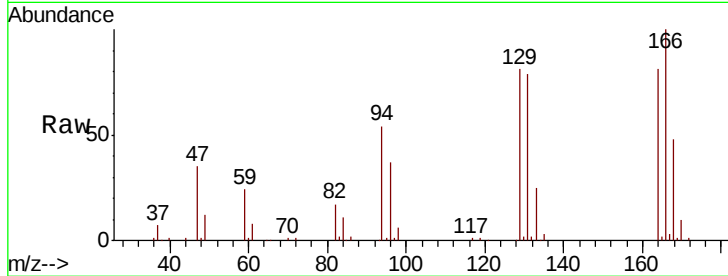




#45  
1,1,2-Trichloroethane  
Concen: 0.121 ug/L  
RT: 7.99 min Scan# 2147  
Delta R.T. 0.13 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

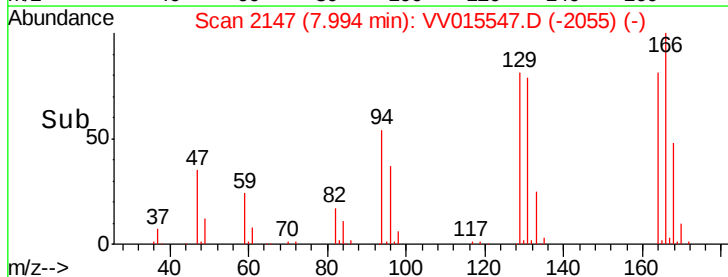
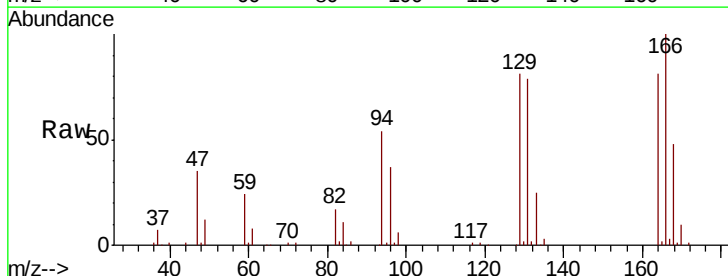
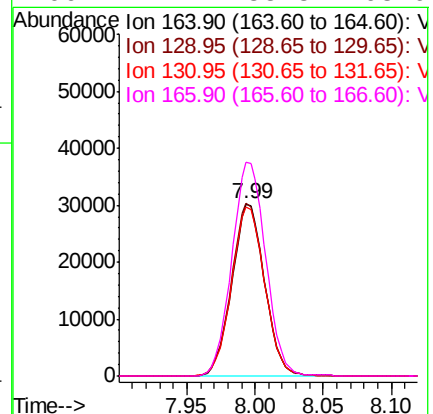
Instrument :  
MSVOA\_V  
ClientSampleId :

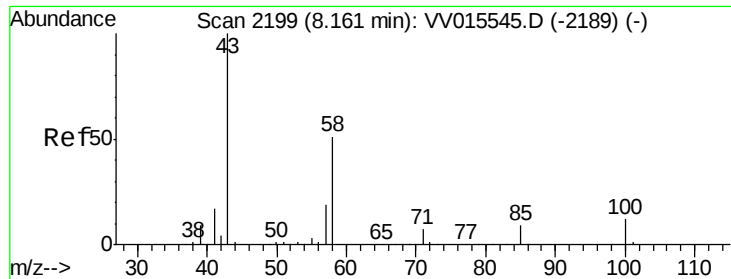
Tot Ion: 97 Resp: 593  
Ion Ratio Lower Upper  
97 100  
99 0.0 41.3 76.7#  
83 199.2 60.5 112.3#  
85 39.1 36.8 68.4



#47  
Tetrachloroethene  
Concen: 8.602 ug/L  
RT: 7.99 min Scan# 2147  
Delta R.T. -0.00 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

Tgt Ion: 164 Resp: 50292  
Ion Ratio Lower Upper  
164 100  
129 100.6 70.6 131.0  
131 98.2 68.3 126.8  
166 124.1 88.3 163.9

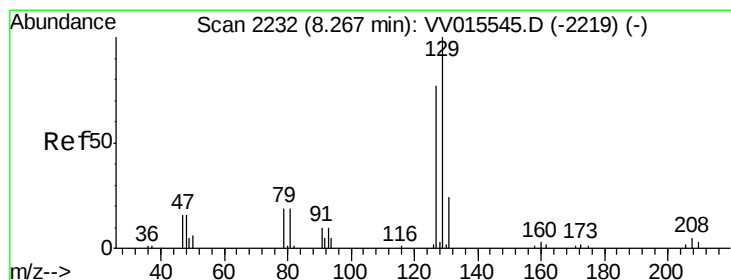
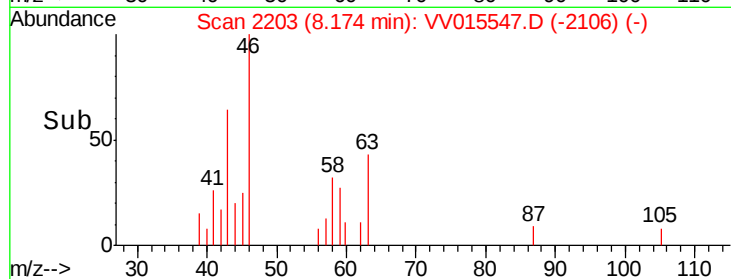
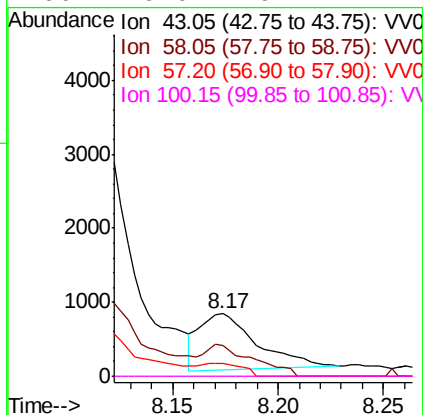
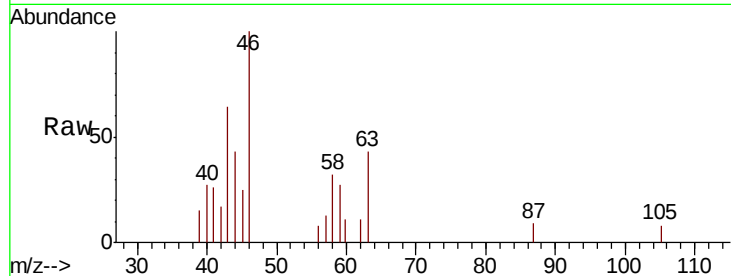




#48  
2-Hexanone  
Concen: 0.428 ug/L  
RT: 8.17 min Scan# 2203  
Delta R.T. 0.01 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 1429  
Ion Ratio Lower Upper  
43 100  
58 47.9 41.4 62.0  
57 15.8 15.0 22.4  
100 0.0 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 8.348 ug/L  
RT: 7.99 min Scan# 2147  
Delta R.T. -0.27 min  
Lab File: VV015547.D  
Acq: 17 Apr 2020 12:06

Tgt Ion: 129 Resp: 48883  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.7 101.7#

