

Data File : VV011920.D  
Acq On : 17 Jul 2019 19:02  
Operator : SY/MD  
Sample : K3823-10  
Misc : 25ML/MSVOA\_V/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A52L4

Quant Time: Jul 18 02:22:45 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jul 18 02:17:52 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 154269   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 149226   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 64868    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 54280    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 95.80%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 44107    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 56571    | 3.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 61.00%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 153785   | 53.74    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.48% |
| 24) Chloroform-d               | 4.40   | 84    | 109242   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 57301    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 216358   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 67484    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 183617   | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.60%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 21606    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 92012    | 46.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 39314    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 68155    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.20% |

#### Target Compounds

|                               |       |     |         |         | Qvalue |    |
|-------------------------------|-------|-----|---------|---------|--------|----|
| 3) Chloromethane              | 1.25  | 50  | 1295    | 0.085   | ug/L # | 57 |
| 5) Vinyl chloride             | 1.32  | 62  | 60445   | 4.104   | ug/L   | 98 |
| 8) Chloroethane               | 1.32  | 64  | 19506   | 2.329   | ug/L # | 51 |
| 12) 1,1-Dichloroethene        | 2.14  | 96  | 2133    | 0.259   | ug/L # | 1  |
| 13) Acetone                   | 2.19  | 43  | 7329    | 5.047   | ug/L   | 97 |
| 18) trans-1,2-Dichloroethene  | 2.79  | 96  | 19186   | 1.660   | ug/L   | 98 |
| 22) cis-1,2-Dichloroethene    | 3.96  | 96  | 2245673 | 188.694 | ug/L # | 99 |
| 25) Chloroform                | 4.42  | 83  | 2926    | 0.124   | ug/L   | 88 |
| 34) Trichloroethene           | 5.96  | 95  | 103331  | 7.963   | ug/L   | 99 |
| 35) Methylcyclohexane         | 6.12  | 83  | 16417   | 0.834   | ug/L # | 16 |
| 37) 1,2-Dichloropropane       | 6.12  | 63  | 7804    | 0.685   | ug/L # | 88 |
| 39) cis-1,3-Dichloropropene   | 7.03  | 75  | 1938    | 0.124   | ug/L # | 63 |
| 44) trans-1,3-Dichloropropene | 7.67  | 75  | 1154    | 0.093   | ug/L # | 66 |
| 48) 2-Hexanone                | 8.18  | 43  | 8730    | 1.781   | ug/L # | 79 |
| 58) 1,1,2,2-Tetrachloroethane | 10.28 | 83  | 495     | 0.067   | ug/L # | 62 |
| 63) 1,4-Dichlorobenzene       | 11.32 | 146 | 2234    | 0.104   | ug/L   | 94 |
| 65) 1,2-Dichlorobenzene       | 11.69 | 146 | 2866    | 0.147   | ug/L   | 97 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV071719\  
Quantitation Report (Not Reviewed)

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Quant Time: Jul 18 02:22:45 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jul 18 02:17:52 2019  
Response via : Initial Calibration

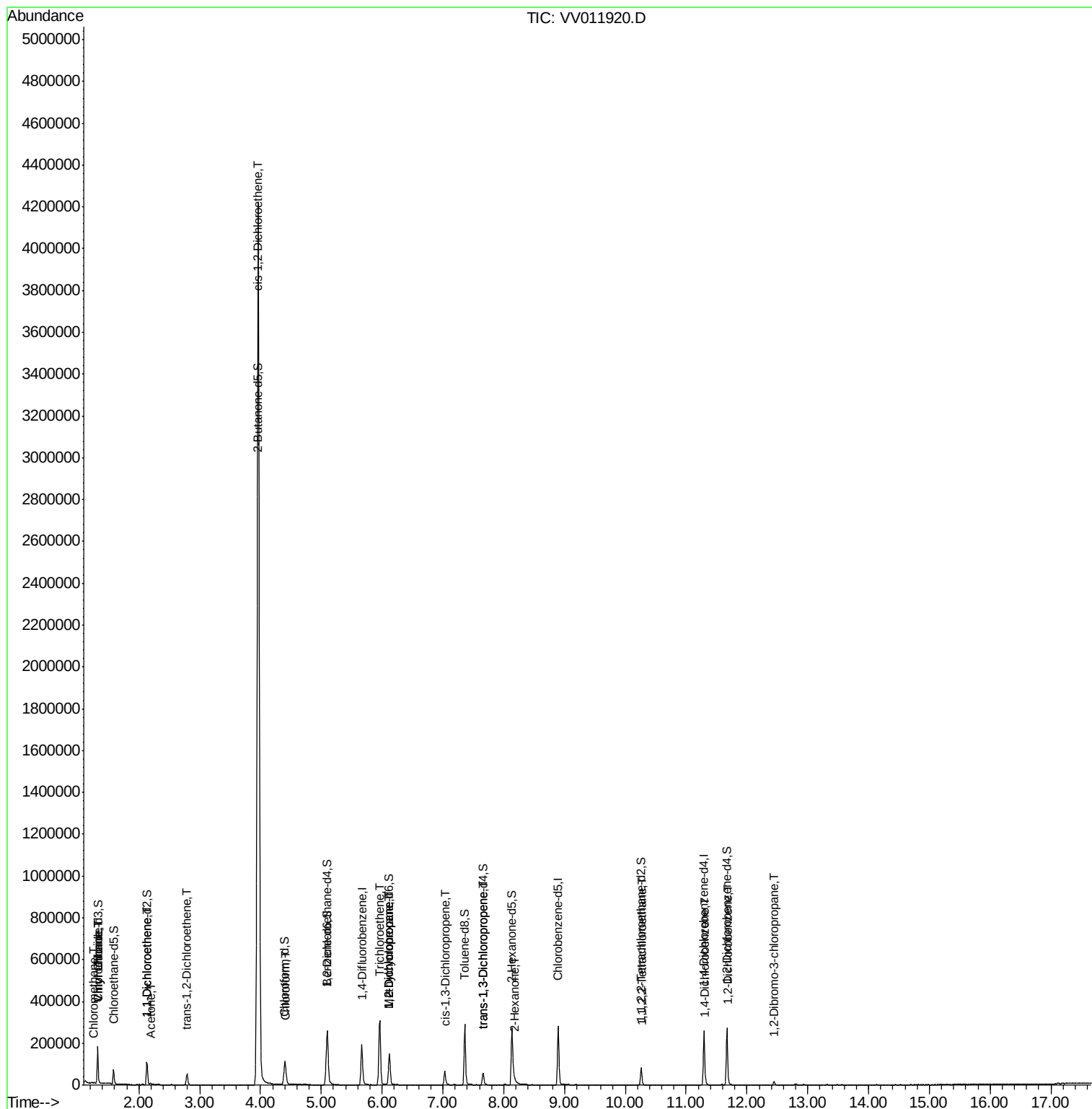
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 66) 1,2-Dibromo-3-chloropropan | 12.44 | 75   | 2639     | 2.376 | ug/L # | 3        |

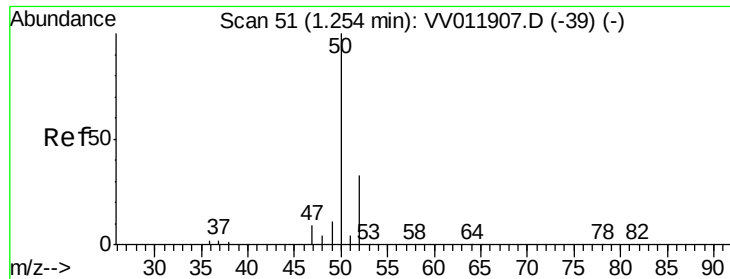
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.085 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

Instrument :

MSVOA\_V

ClientSampleId :

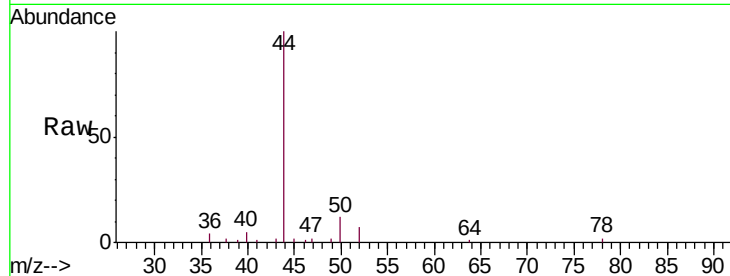
A52L4

Tgt Ion: 50 Resp: 1295

Ion Ratio Lower Upper

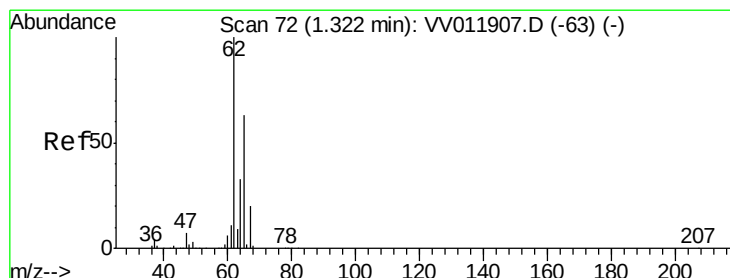
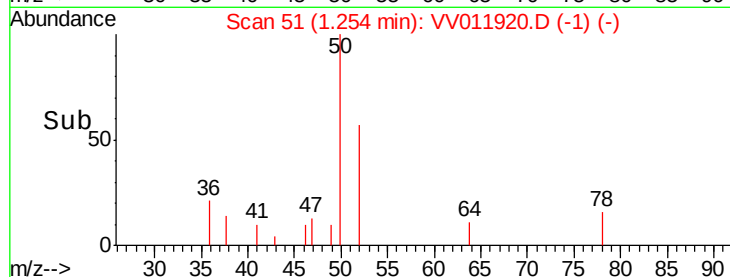
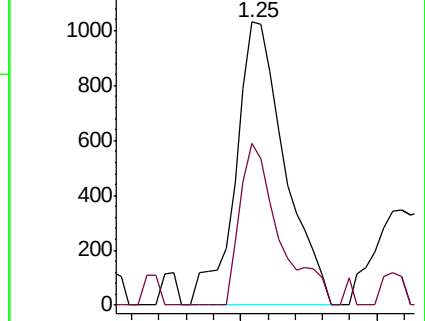
50 100

52 57.1 23.1 42.9#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 4.104 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV011920.D

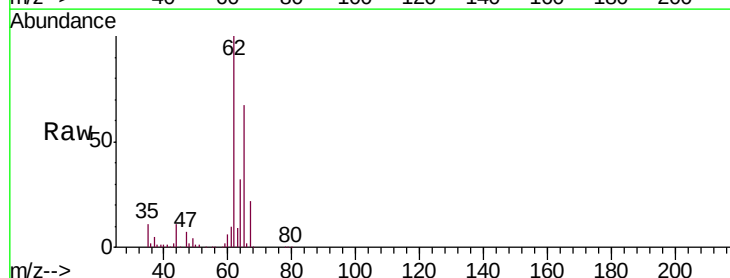
Acq: 17 Jul 2019 19:02

Tgt Ion: 62 Resp: 60445

Ion Ratio Lower Upper

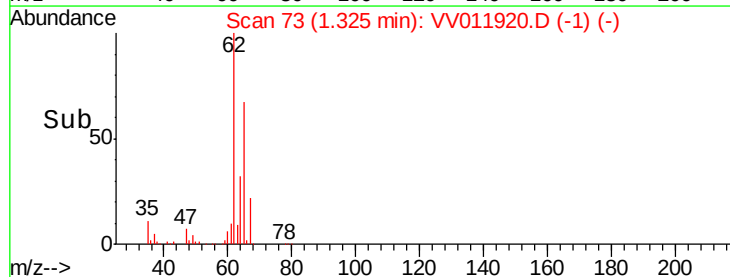
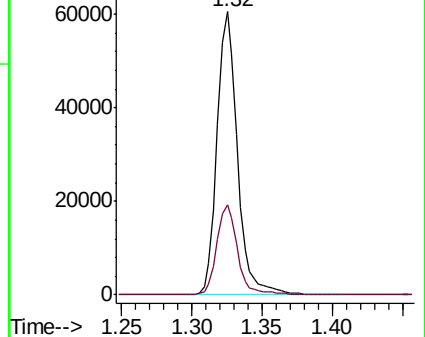
62 100

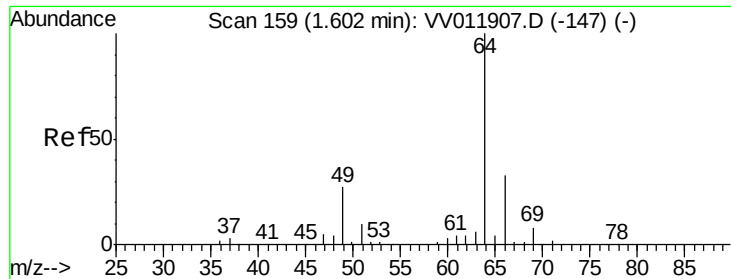
64 31.7 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 2.329 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.28 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

Instrument :

MSVOA\_V

ClientSampleId :

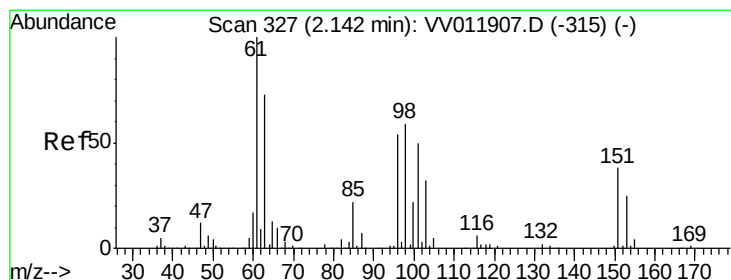
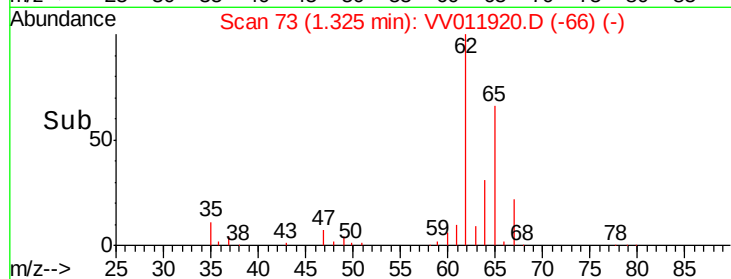
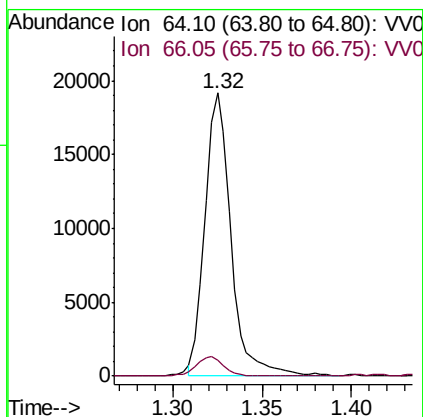
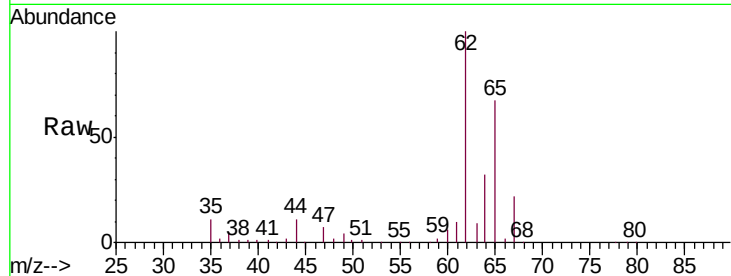
A52L4

Tgt Ion: 64 Resp: 19506

Ion Ratio Lower Upper

64 100

66 5.6 23.2 43.2#



#12

1,1-Dichloroethene

Concen: 0.259 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

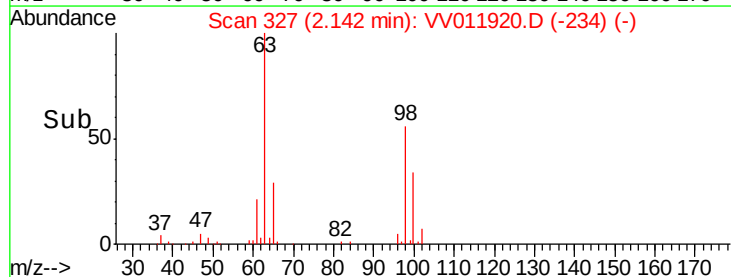
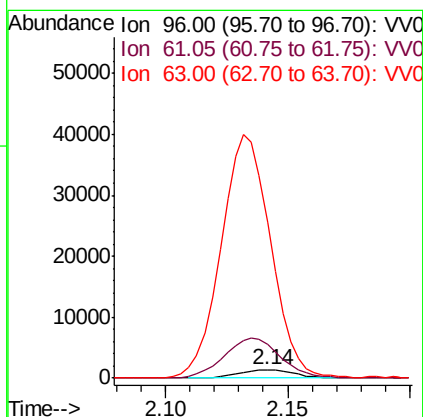
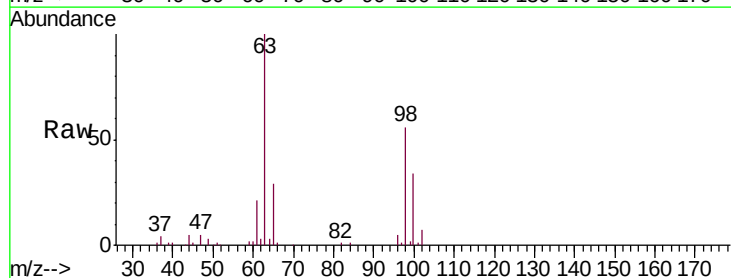
Tgt Ion: 96 Resp: 2133

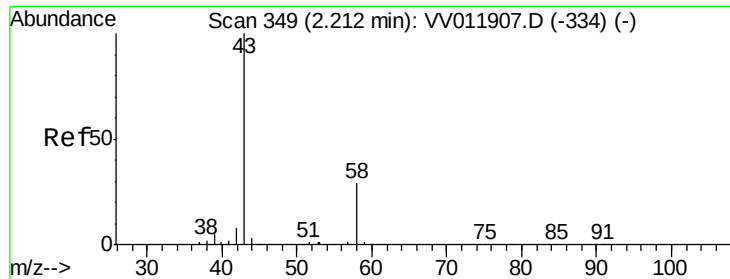
Ion Ratio Lower Upper

96 100

61 400.1 128.9 239.3#

63 1863.9 85.5 158.9#





#13

Acetone

Concen: 5.047 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.02 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

Instrument :

MSVOA\_V

ClientSampled :

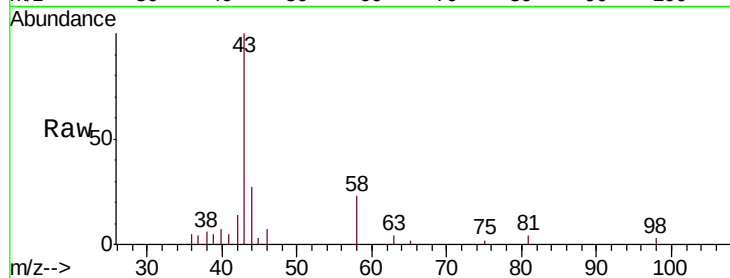
A52L4

Tgt Ion: 43 Resp: 7329

Ion Ratio Lower Upper

43 100

58 26.4 0.0 55.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.19

5000

4000

3000

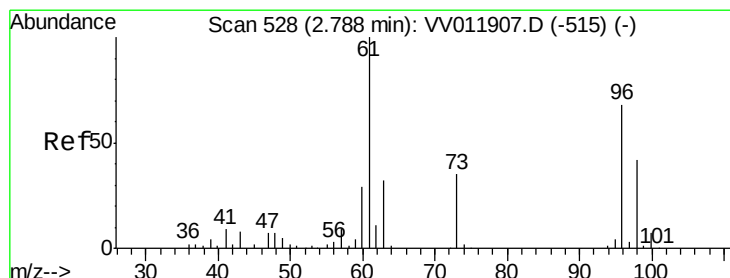
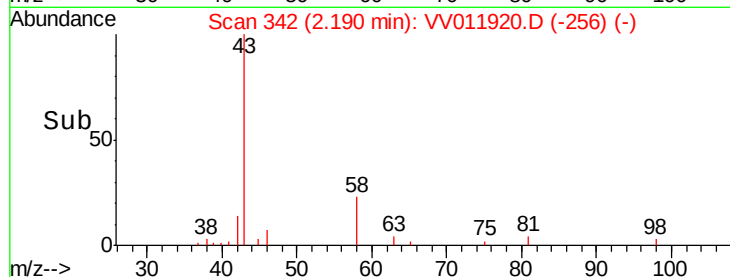
2000

1000

0

Time-->

2.15 2.20 2.25



#18

trans-1,2-Dichloroethene

Concen: 1.660 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

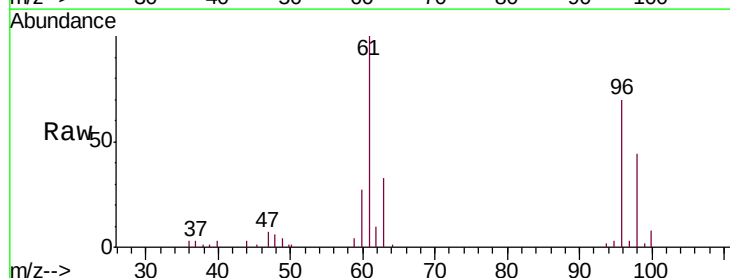
Tgt Ion: 96 Resp: 19186

Ion Ratio Lower Upper

96 100

61 143.2 102.2 189.8

98 63.1 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

20000

15000

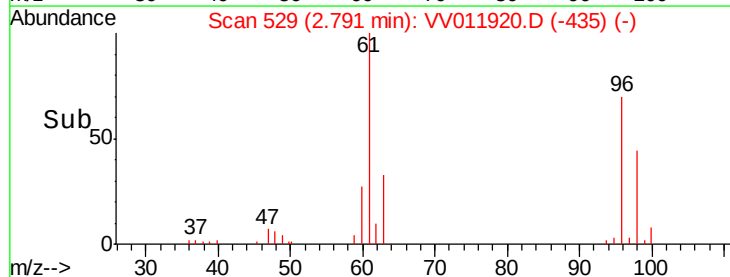
10000

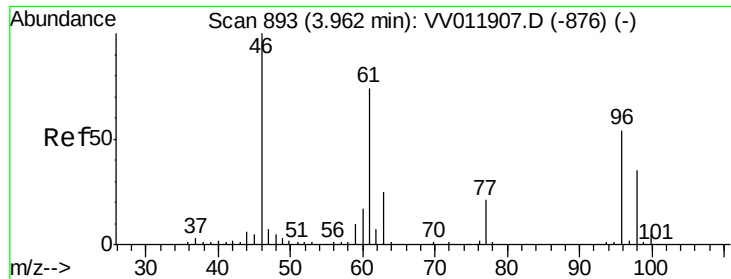
5000

0

Time-->

2.70 2.75 2.80 2.85



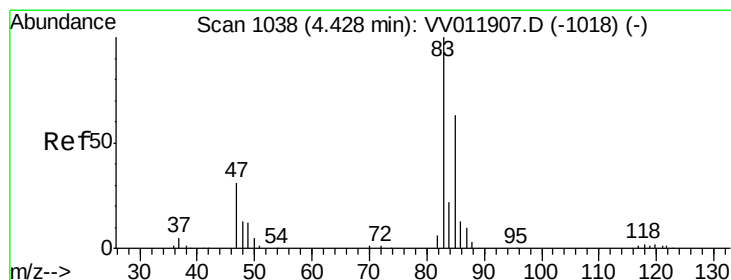
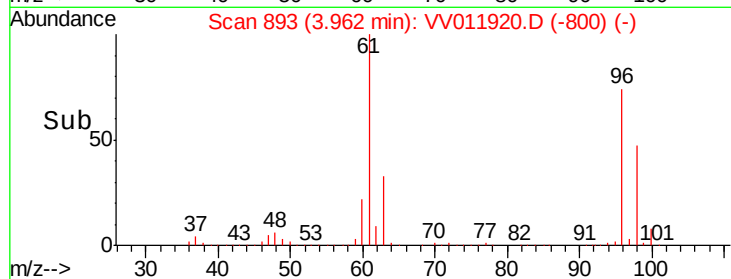
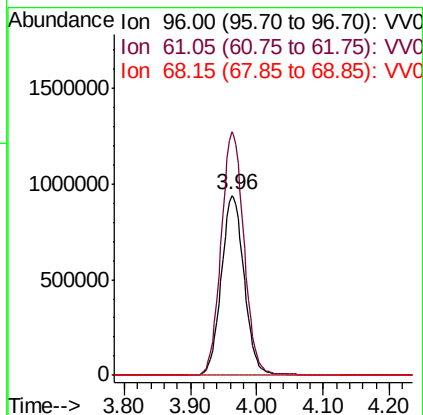
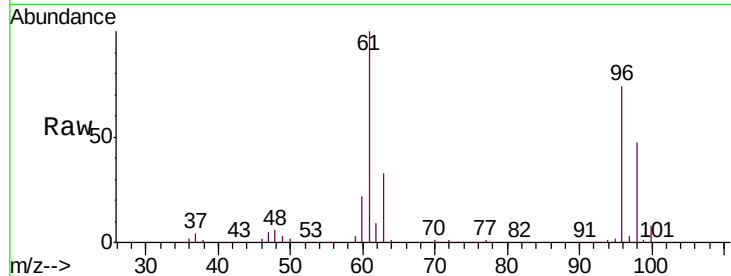


#22

cis-1,2-Dichloroethene  
 Concen: 188.694 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. -0.00 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A52L4

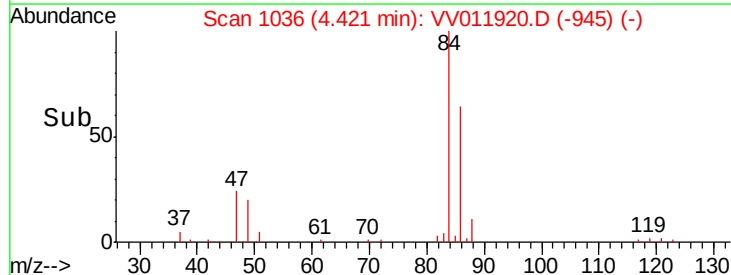
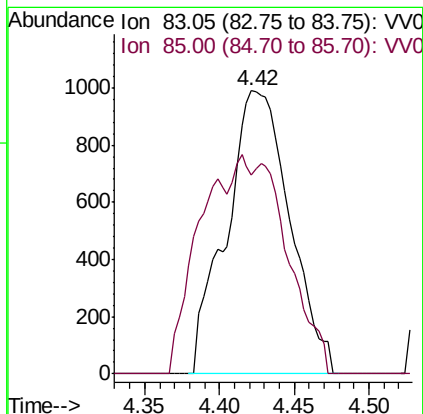
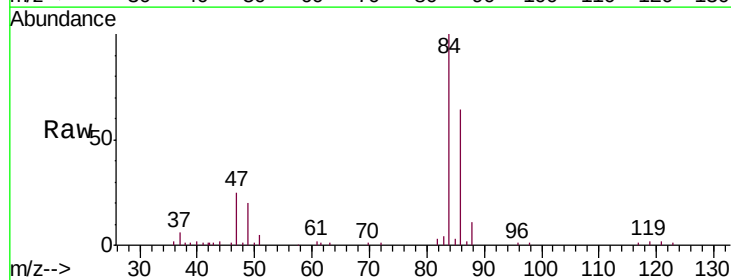
Tgt Ion: 96 Resp: 2245673  
 Ion Ratio Lower Upper  
 96 100  
 61 135.4 95.2 176.8  
 68 0.0 0.0 0.0#

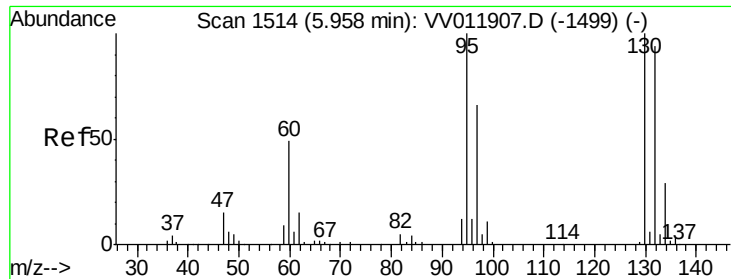


#25

Chloroform  
 Concen: 0.124 ug/L  
 RT: 4.42 min Scan# 1036  
 Delta R.T. -0.01 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

Tgt Ion: 83 Resp: 2926  
 Ion Ratio Lower Upper  
 83 100  
 85 70.2 42.5 78.9





#34

Trichloroethene

Concen: 7.963 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

Instrument :

MSVOA\_V

ClientSampleId :

A52L4

Tgt Ion: 95 Resp: 103331

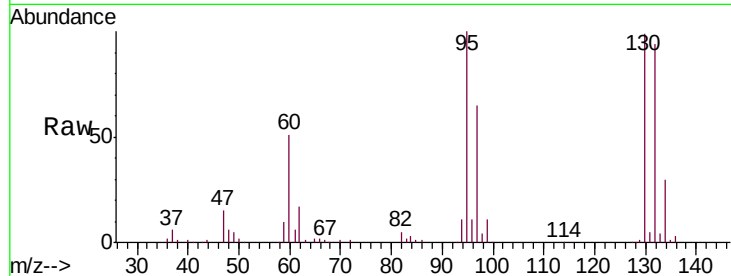
Ion Ratio Lower Upper

95 100

97 64.8 44.0 81.6

132 94.0 67.0 124.4

130 99.1 69.1 128.3

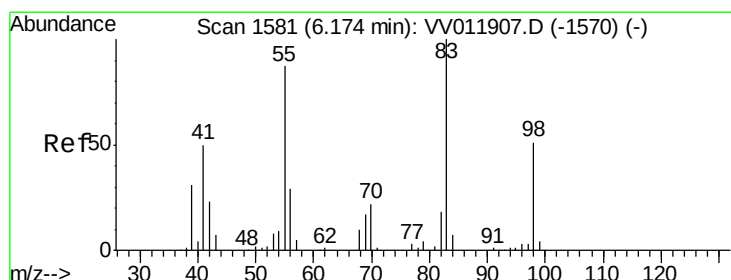
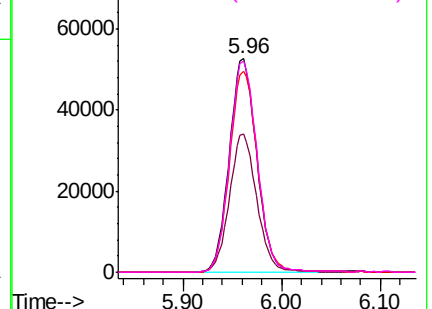
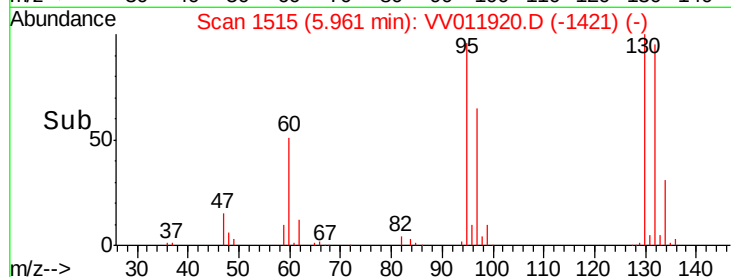


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.834 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.05 min

Lab File: VV011920.D

Acq: 17 Jul 2019 19:02

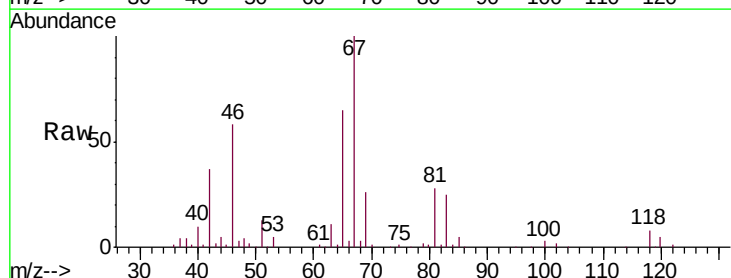
Tgt Ion: 83 Resp: 16417

Ion Ratio Lower Upper

83 100

55 0.4 66.7 100.1#

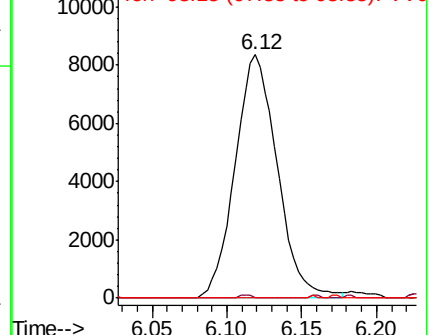
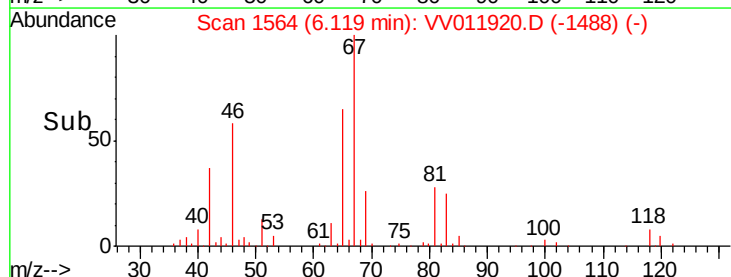
98 0.6 39.0 58.4#



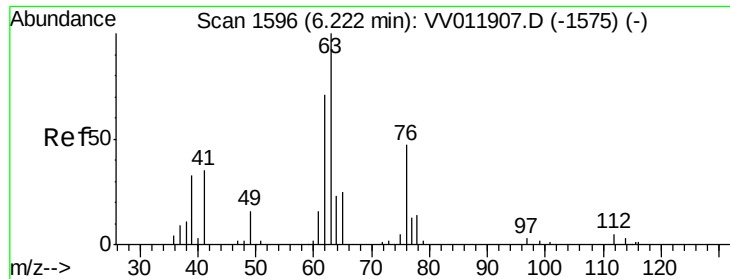
Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0



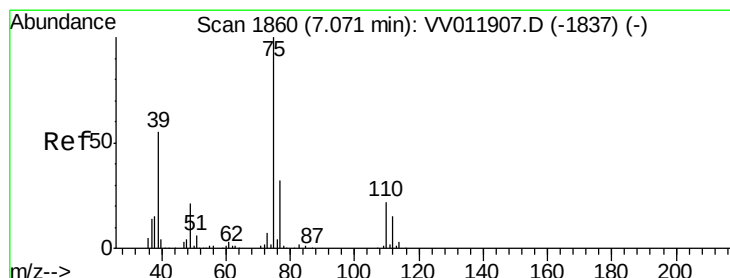
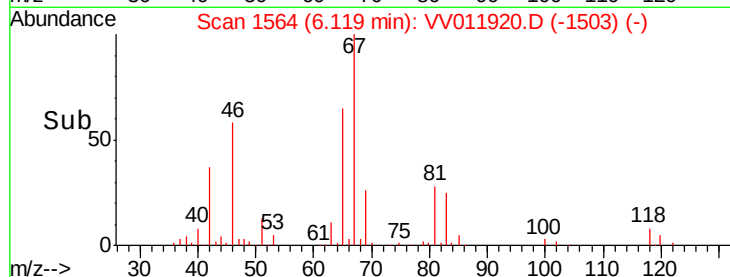
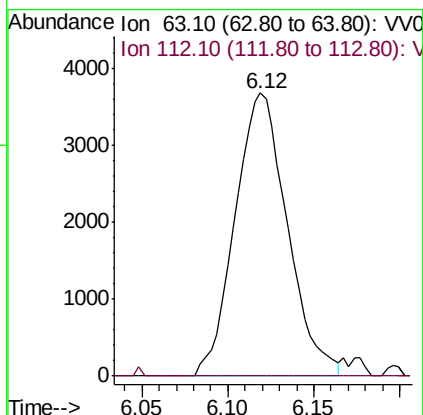
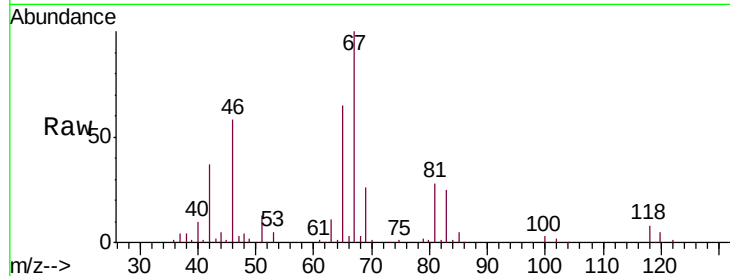




#37  
 1,2-Dichloropropane  
 Concen: 0.685 ug/L  
 RT: 6.12 min Scan# 1564  
 Delta R.T. -0.10 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

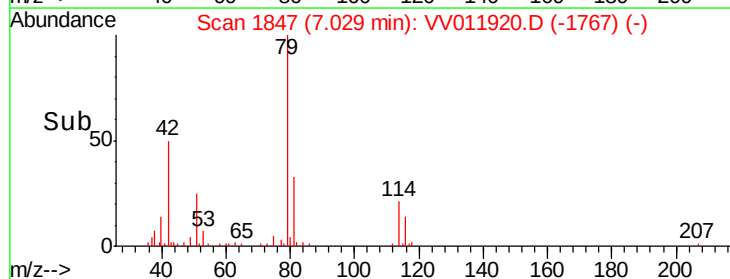
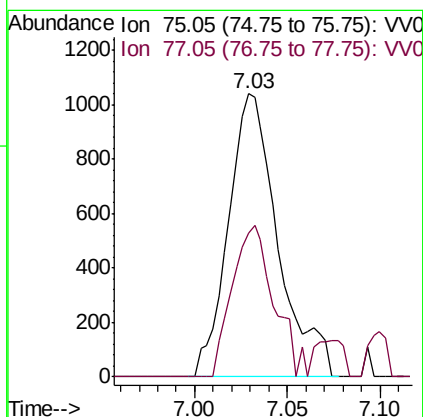
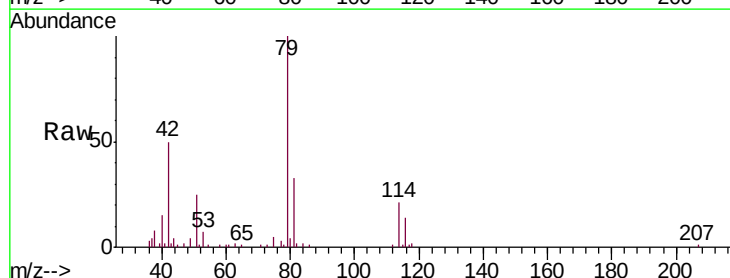
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A52L4

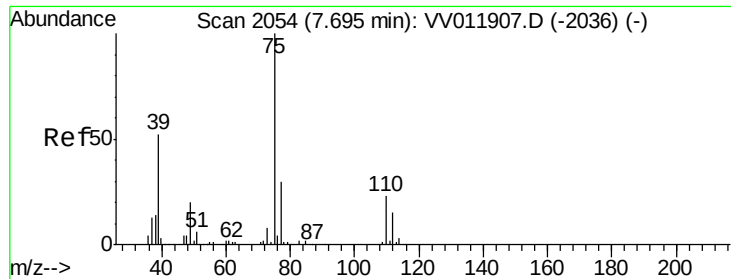
Tgt Ion: 63 Resp: 7804  
 Ion Ratio Lower Upper  
 63 100  
 112 0.3 3.4 5.2#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.124 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

Tgt Ion: 75 Resp: 1938  
 Ion Ratio Lower Upper  
 75 100  
 77 51.1 21.6 40.2#

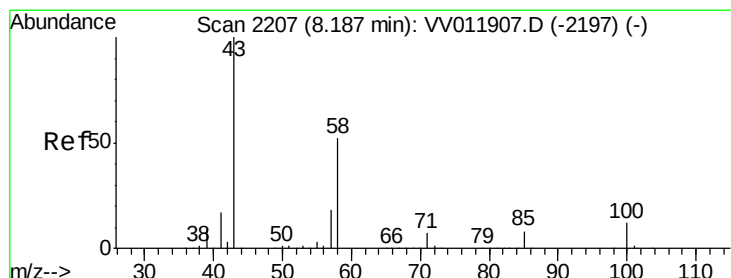
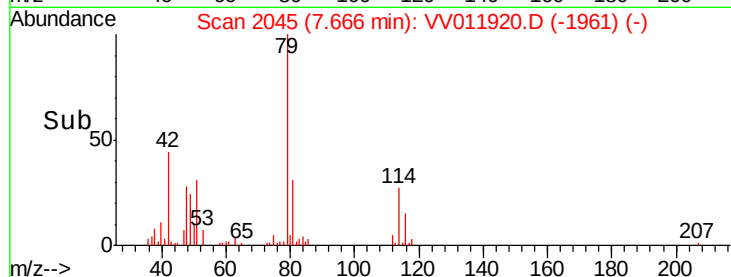
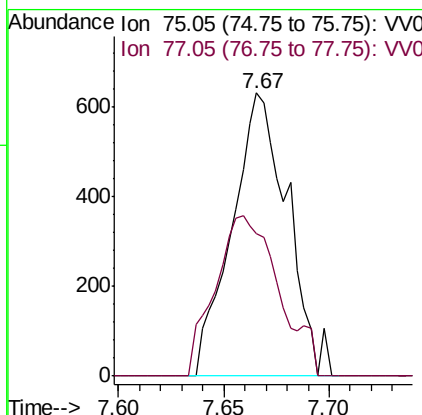
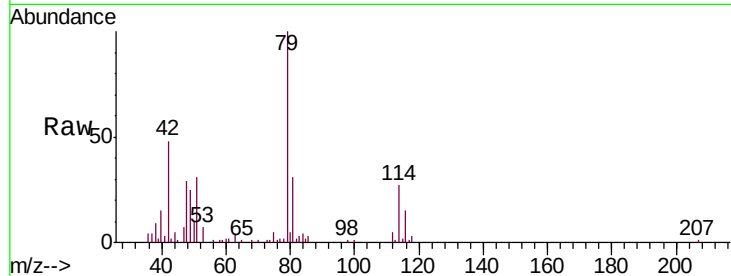




#44  
trans-1,3-Dichloropropene  
Concen: 0.093 ug/L  
RT: 7.67 min Scan# 2045  
Delta R.T. -0.03 min  
Lab File: VV011920.D  
Acq: 17 Jul 2019 19:02

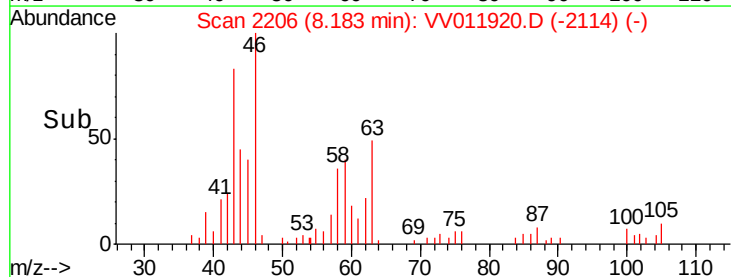
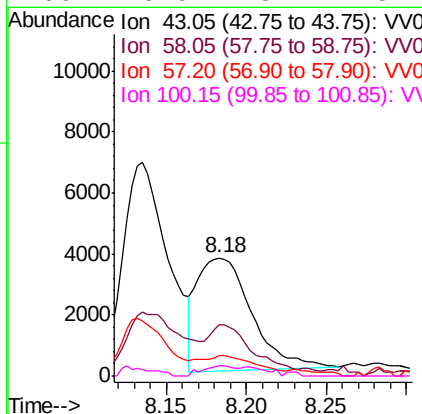
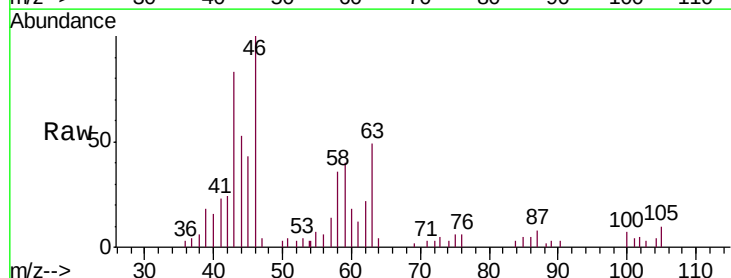
Instrument :  
MSVOA\_V  
ClientSampleId :  
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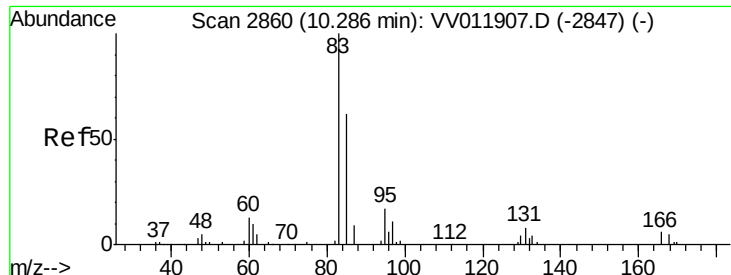
Tgt Ion: 75 Resp: 1154  
Ion Ratio Lower Upper  
75 100  
77 50.6 22.3 41.3#



#48  
2-Hexanone  
Concen: 1.781 ug/L  
RT: 8.18 min Scan# 2206  
Delta R.T. -0.00 min  
Lab File: VV011920.D  
Acq: 17 Jul 2019 19:02

Tgt Ion: 43 Resp: 8730  
Ion Ratio Lower Upper  
43 100  
58 31.9 41.1 61.7#  
57 15.1 14.3 21.5  
100 5.0 8.7 13.1#

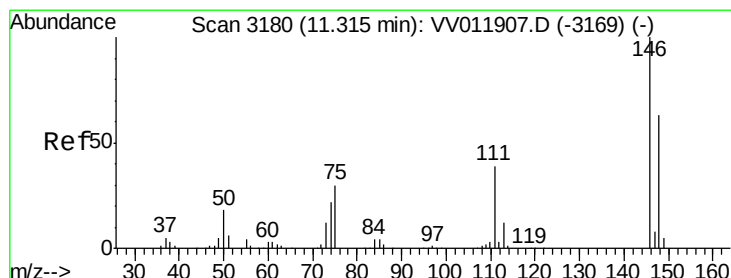
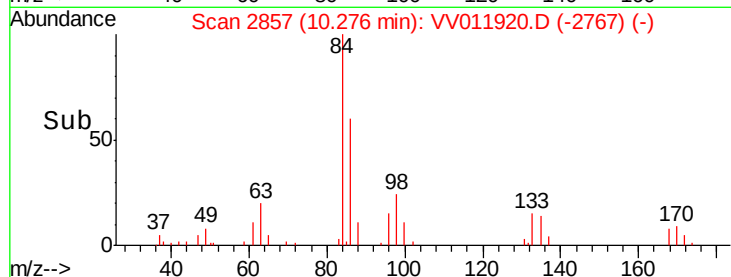
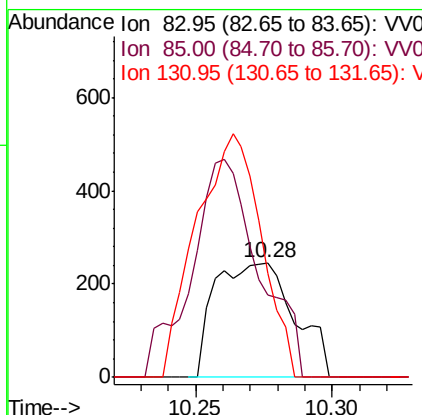
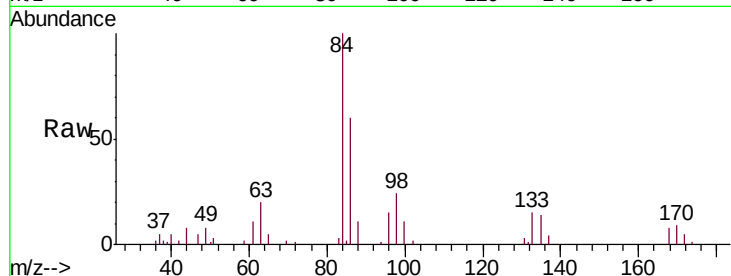




#58  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.067 ug/L  
 RT: 10.28 min Scan# 2857  
 Delta R.T. -0.01 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

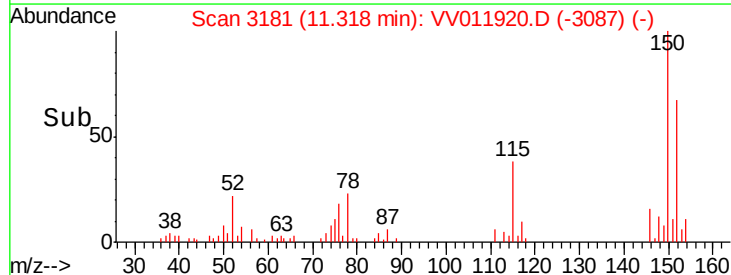
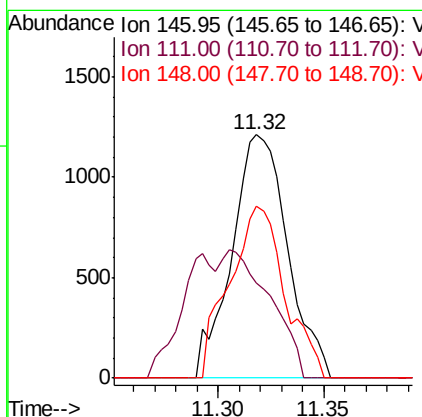
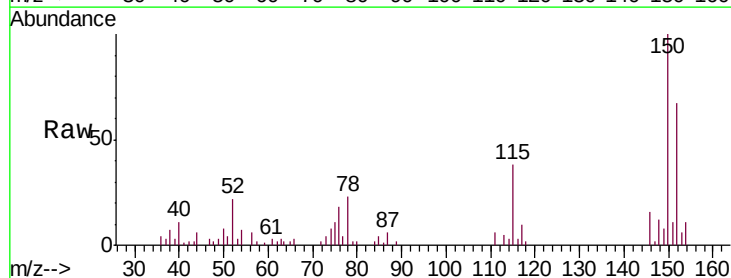
Instrument :  
 MSVOA\_V  
 ClientSampled :  
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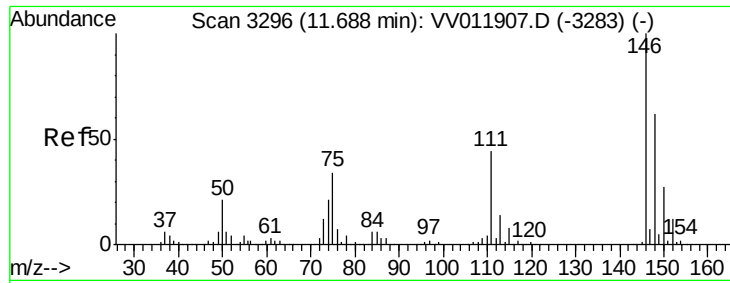
Tgt Ion: 83 Resp: 495  
 Ion Ratio Lower Upper  
 83 100  
 85 72.0 44.9 83.3  
 131 90.2 8.2 12.2#



#63  
 1,4-Dichlorobenzene  
 Concen: 0.104 ug/L  
 RT: 11.32 min Scan# 3181  
 Delta R.T. 0.00 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

Tgt Ion: 146 Resp: 2234  
 Ion Ratio Lower Upper  
 146 100  
 111 38.9 28.0 52.0  
 148 70.5 44.5 82.7

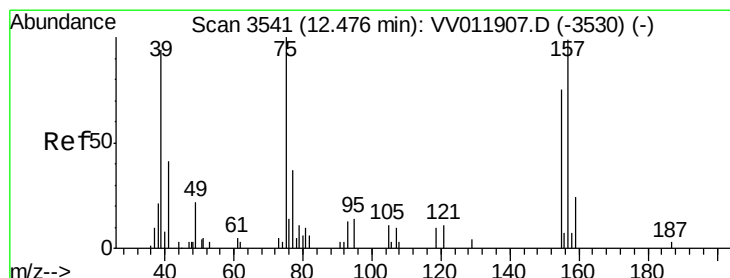
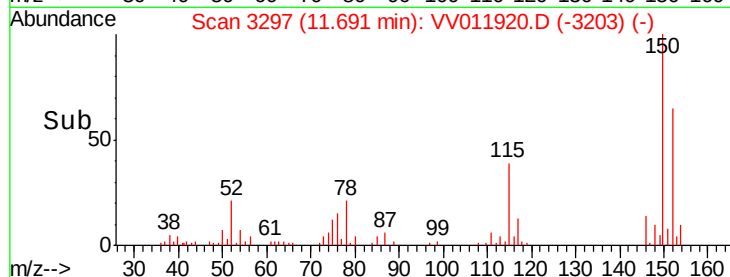
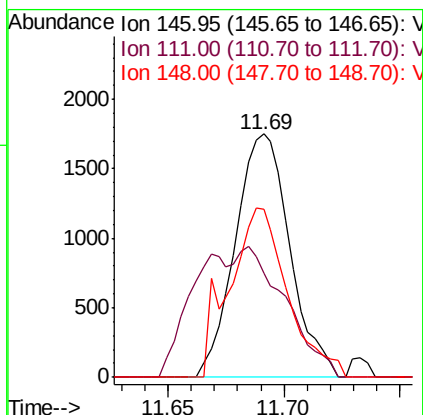
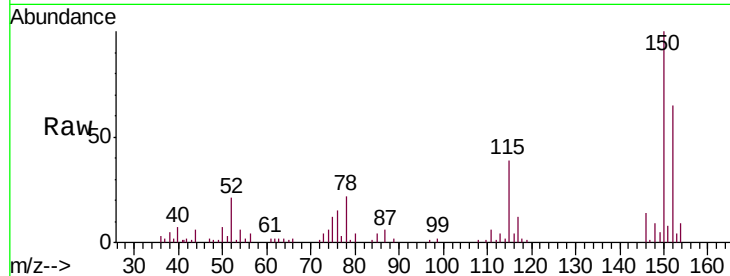




#65  
 1,2-Dichlorobenzene  
 Concen: 0.147 ug/L  
 RT: 11.69 min Scan# 3297  
 Delta R.T. 0.00 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A52L4

Tgt Ion:146 Resp: 2866  
 Ion Ratio Lower Upper  
 146 100  
 111 42.6 34.0 51.0  
 148 68.9 51.8 77.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.376 ug/L  
 RT: 12.44 min Scan# 3531  
 Delta R.T. -0.03 min  
 Lab File: VV011920.D  
 Acq: 17 Jul 2019 19:02

Tgt Ion: 75 Resp: 2639  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 59.4 89.0#  
 157 0.0 85.5 128.3#

