

Data File : VV010563.D  
Acq On : 29 Apr 2019 22:19  
Operator : SY/MD  
Sample : K2590-02  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0X80

Quant Time: Apr 30 06:50:46 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Apr 30 06:45:30 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 240102   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 242760   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 115044   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 48398    | 4.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.80%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 35096    | 5.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 112.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 68652    | 3.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.40%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 132100   | 43.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 87.72%  |
| 24) Chloroform-d               | 4.40   | 84    | 141553   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 68810    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 282434   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.14   | 67    | 84997    | 4.98     | ug/L | 0.02    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 268629   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 31425    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.20%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 128264   | 46.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.08%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 57396    | 4.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 84.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 109759   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.00%  |

#### Target Compounds

|                               |      |     |          |         |        | Qvalue |
|-------------------------------|------|-----|----------|---------|--------|--------|
| 5) Vinyl chloride             | 1.32 | 62  | 1483     | 0.111   | ug/L # | 64     |
| 9) Trichlorofluoromethane     | 1.76 | 101 | 3827756  | 146.108 | ug/L   | 97     |
| 12) 1,1-Dichloroethene        | 2.14 | 96  | 2066     | 0.178   | ug/L # | 1      |
| 13) Acetone                   | 2.19 | 43  | 3586     | 2.390   | ug/L   | 96     |
| 18) trans-1,2-Dichloroethene  | 2.79 | 96  | 11303    | 0.682   | ug/L   | 96     |
| 22) cis-1,2-Dichloroethene    | 3.96 | 96  | 76183    | 4.261   | ug/L   | 87     |
| 25) Chloroform                | 4.42 | 83  | 26393    | 0.852   | ug/L   | 82     |
| 27) 1,2-Dichloroethane        | 5.19 | 62  | 3483     | 0.197   | ug/L   | 95     |
| 29) 1,1,1-Trichloroethane     | 4.66 | 97  | 7440     | 0.262   | ug/L   | 92     |
| 31) Carbon tetrachloride      | 4.87 | 117 | 153710   | 5.653   | ug/L   | 98     |
| 35) Methylcyclohexane         | 6.03 | 83  | 975934   | 41.137  | ug/L # | 1      |
| 37) 1,2-Dichloropropane       | 6.14 | 63  | 9195     | 0.635   | ug/L # | 93     |
| 39) cis-1,3-Dichloropropene   | 7.04 | 75  | 2885     | 0.138   | ug/L # | 60     |
| 44) trans-1,3-Dichloropropene | 7.66 | 75  | 1450     | 0.088   | ug/L # | 74     |
| 45) 1,1,2-Trichloroethane     | 7.88 | 97  | 10097    | 0.822   | ug/L   | 95     |
| 47) Tetrachloroethene         | 8.03 | 164 | 13320674 | 780.021 | ug/L   | 96     |
| 49) Dibromochloromethane      | 8.03 | 129 | 12139271 | 804.236 | ug/L # | 12     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV043019\  
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Apr 30 06:45:30 2019  
Response via : Initial Calibration

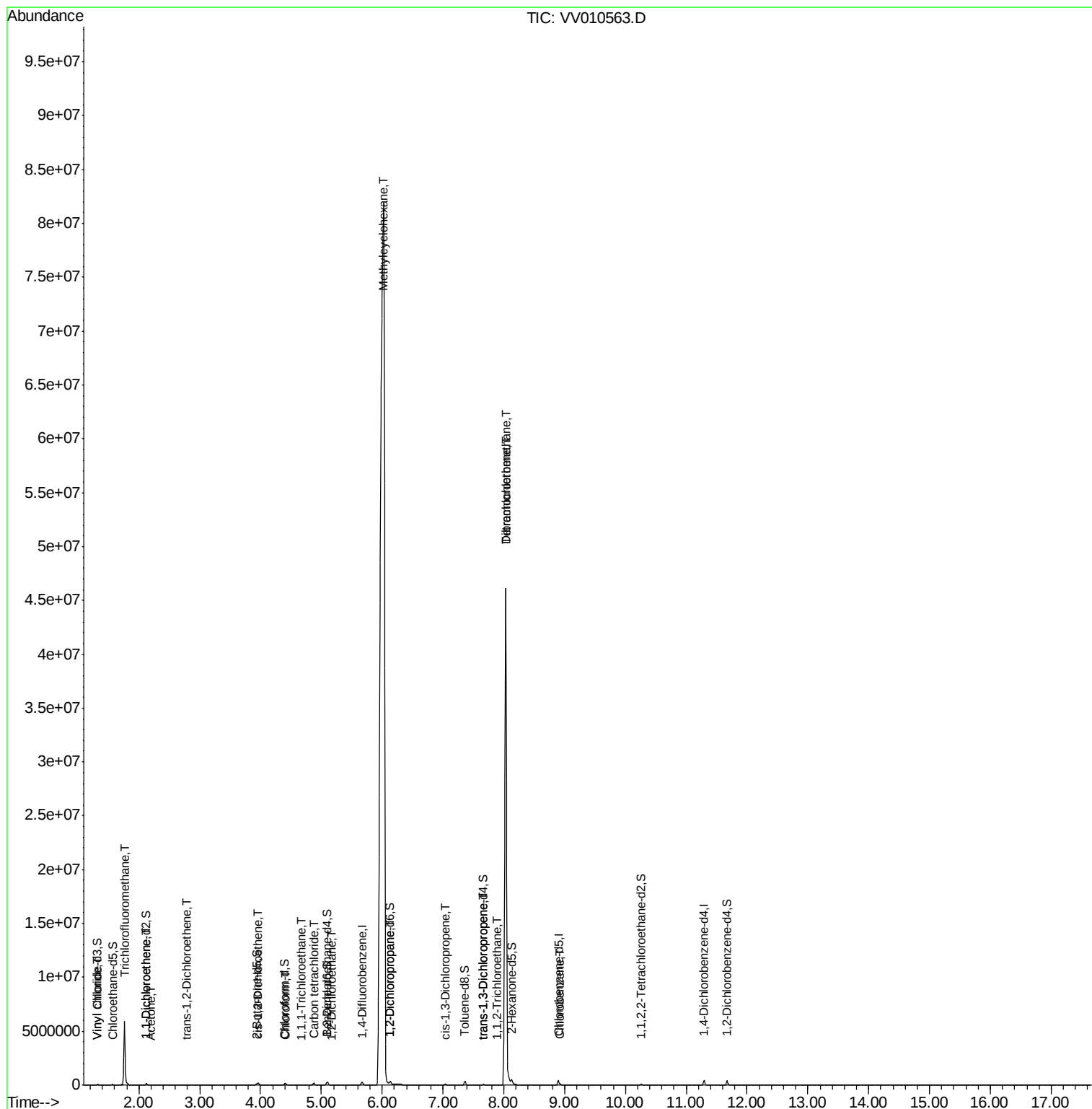
| Internal Standards | R.T. | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------|------|------|----------|-------|-------|----------|
| 51) Chlorobenzene  | 8.93 | 112  | 47104    | 0.973 | ug/L  | 98       |

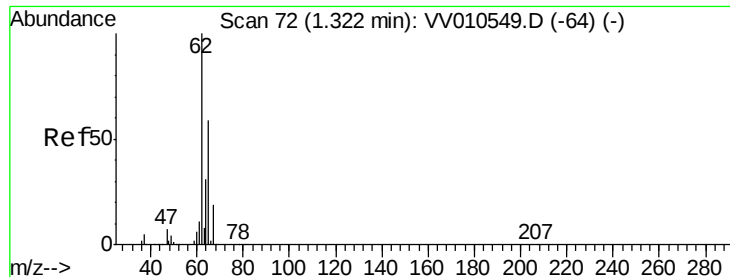
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.111 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

Instrument :

MSVOA\_V

ClientSampleId :

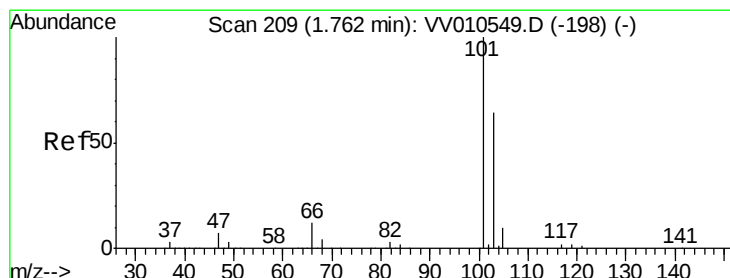
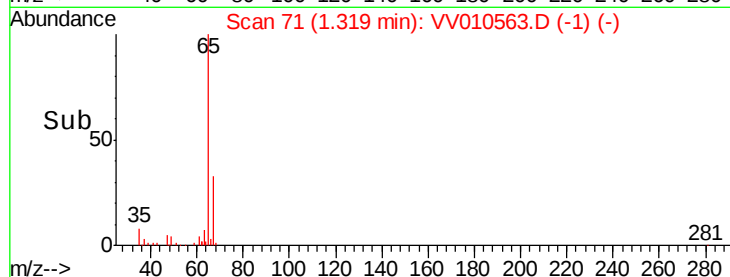
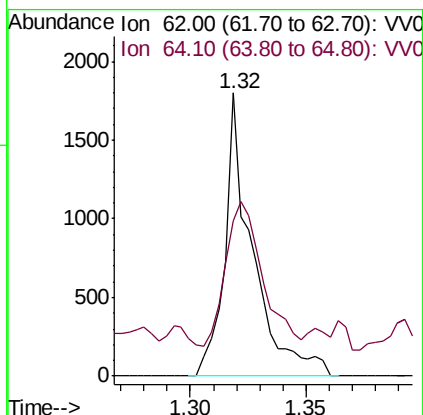
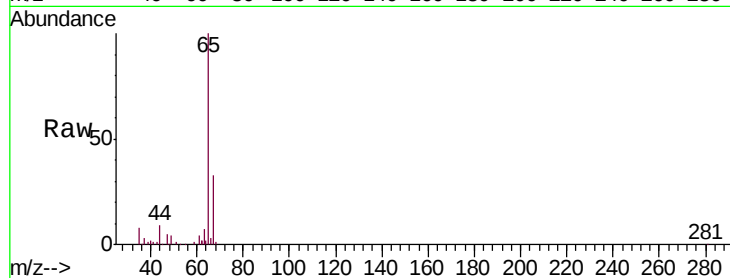
C0X80

Tgt Ion: 62 Resp: 1483

Ion Ratio Lower Upper

62 100

64 55.0 23.9 44.5#



#9

Trichlorofluoromethane

Concen: 146.108 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV010563.D

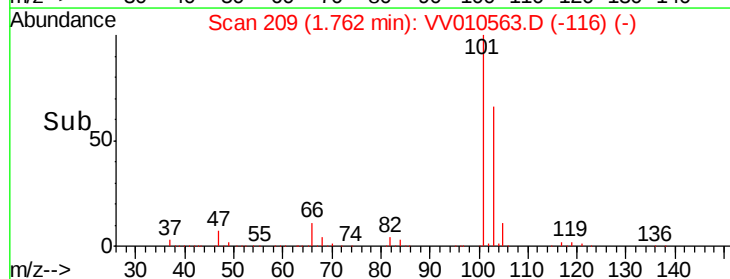
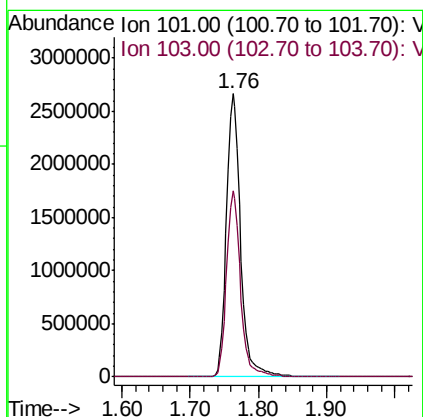
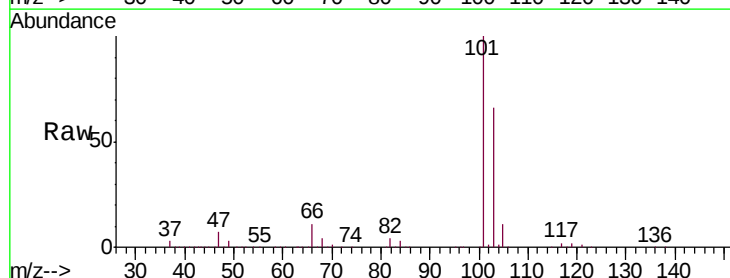
Acq: 29 Apr 2019 22:19

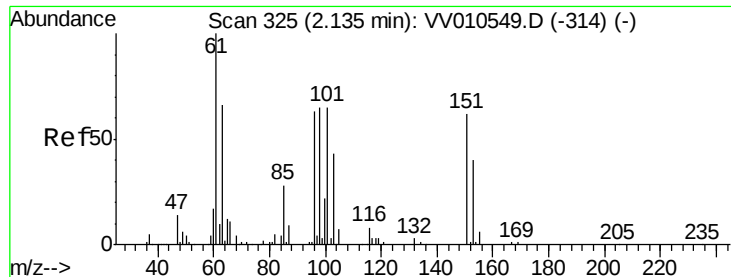
Tgt Ion: 101 Resp: 3827756

Ion Ratio Lower Upper

101 100

103 65.5 50.5 75.7





#12

1,1-Dichloroethene

Concen: 0.178 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

Instrument :

MSVOA\_V

ClientSampled :

C0X80

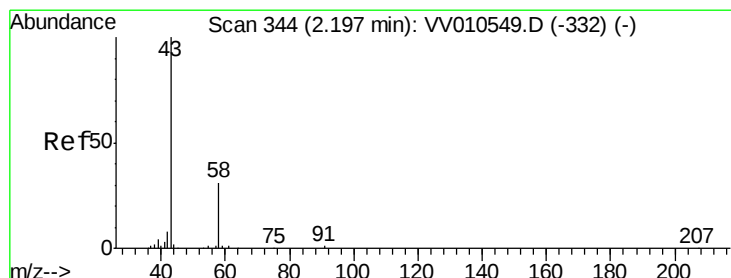
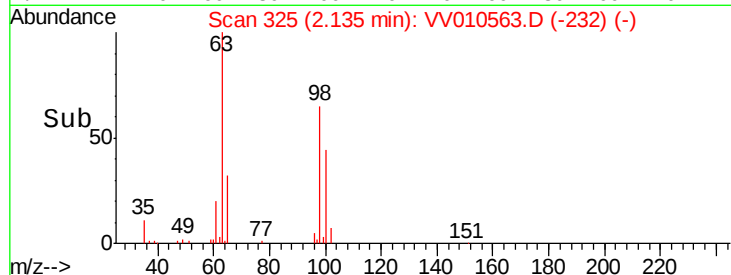
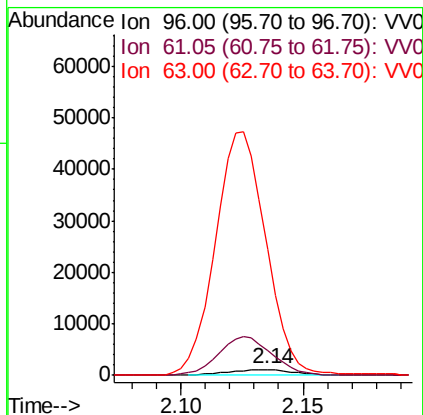
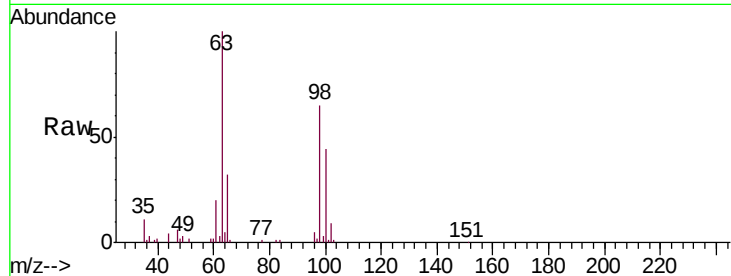
Tgt Ion: 96 Resp: 2066

Ion Ratio Lower Upper

96 100

61 410.1 101.2 188.0#

63 2068.7 79.2 147.0#



#13

Acetone

Concen: 2.390 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV010563.D

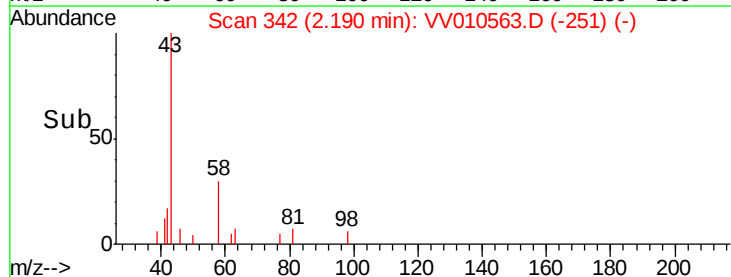
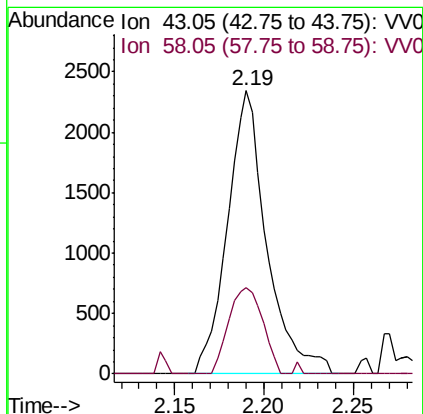
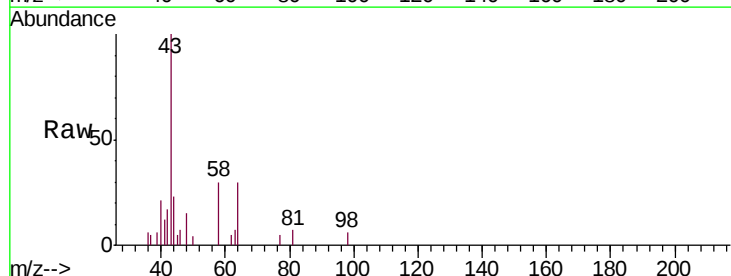
Acq: 29 Apr 2019 22:19

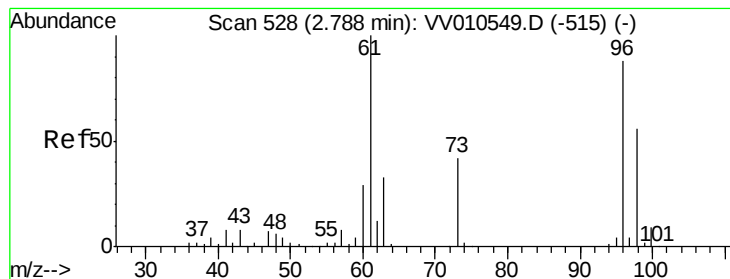
Tgt Ion: 43 Resp: 3586

Ion Ratio Lower Upper

43 100

58 26.5 0.0 57.4





#18

trans-1,2-Dichloroethene

Concen: 0.682 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

Instrument :

MSVOA\_V

ClientSampled :

C0X80

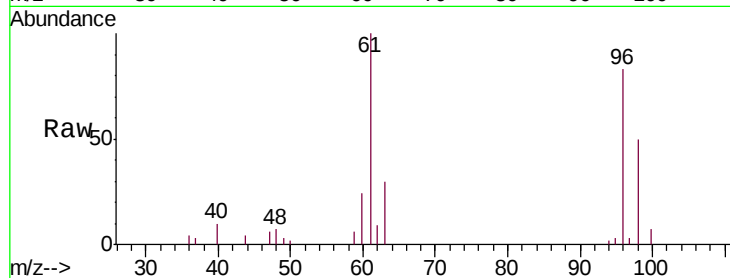
Tgt Ion: 96 Resp: 11303

Ion Ratio Lower Upper

96 100

61 120.9 80.2 148.9

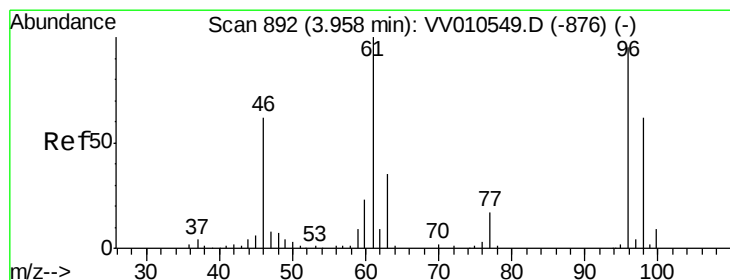
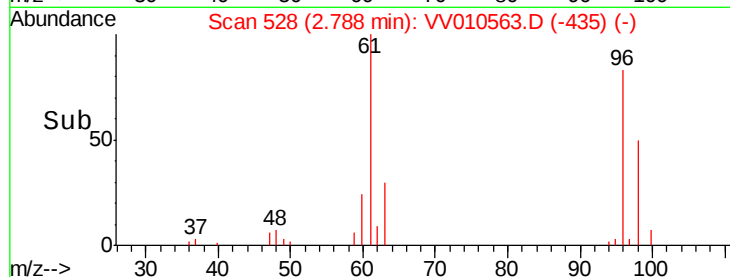
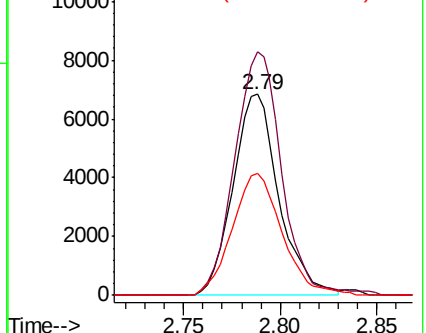
98 60.8 43.3 80.3



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



#22

cis-1,2-Dichloroethene

Concen: 4.261 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

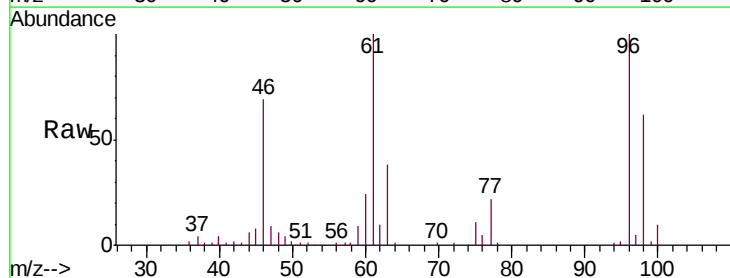
Tgt Ion: 96 Resp: 76183

Ion Ratio Lower Upper

96 100

61 100.2 79.9 148.3

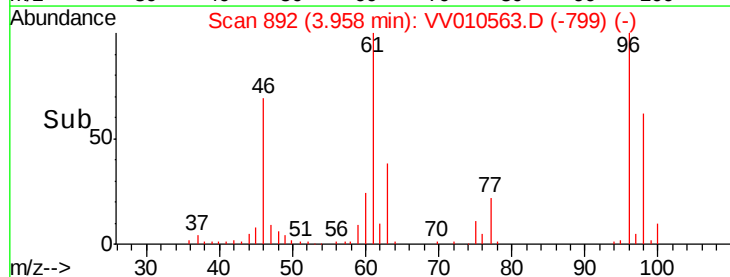
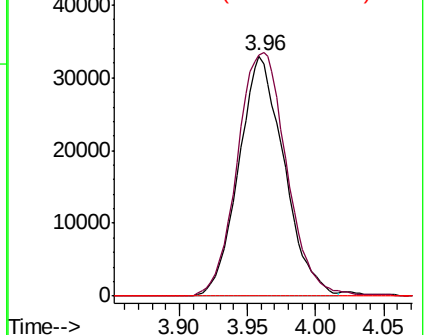
68 0.0 0.0 0.0

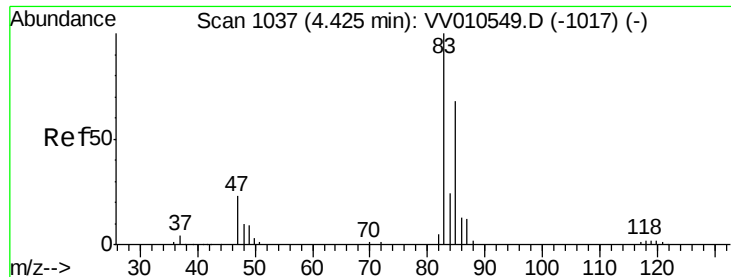


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

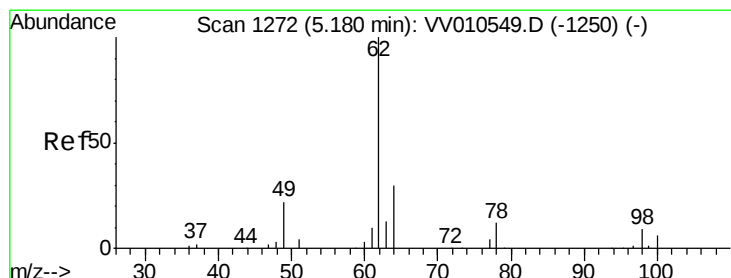
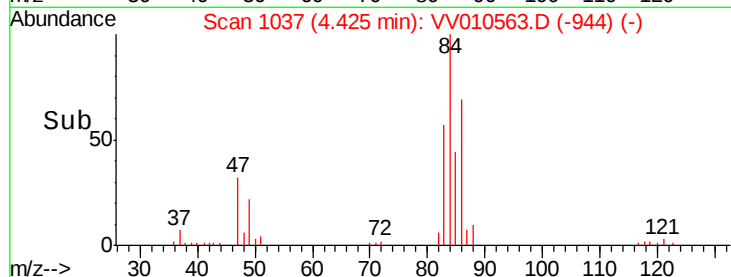
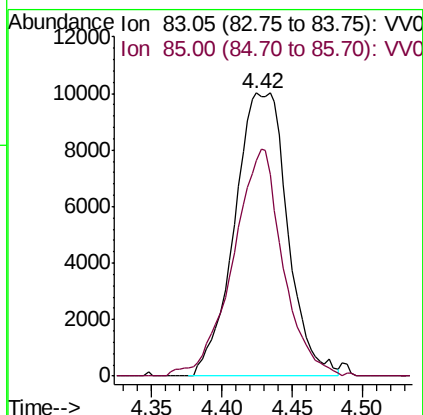
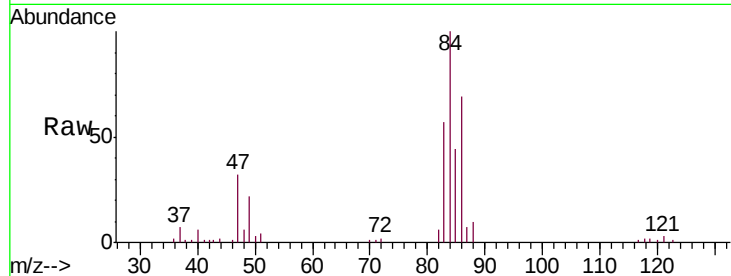




#25  
Chloroform  
Concen: 0.852 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV010563.D  
Acq: 29 Apr 2019 22:19

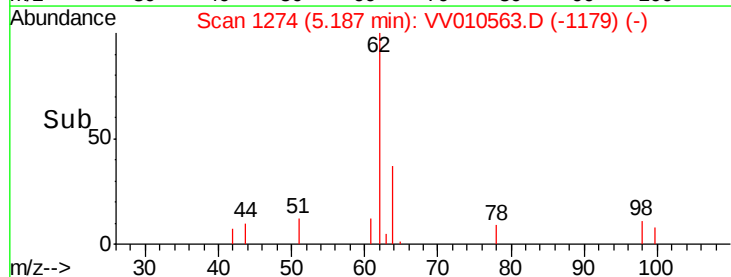
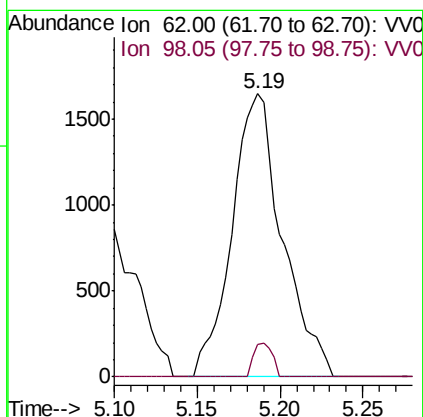
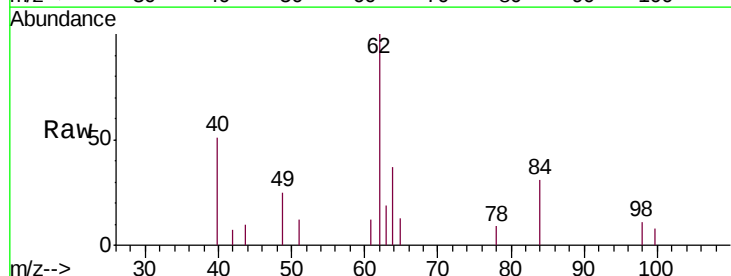
Instrument :  
MSVOA\_V  
ClientSampled :  
C0X80

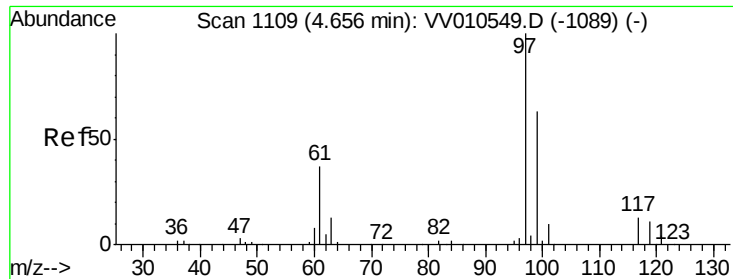
Tgt Ion: 83 Resp: 26393  
Ion Ratio Lower Upper  
83 100  
85 76.1 43.6 81.0



#27  
1,2-Dichloroethane  
Concen: 0.197 ug/L  
RT: 5.19 min Scan# 1274  
Delta R.T. 0.01 min  
Lab File: VV010563.D  
Acq: 29 Apr 2019 22:19

Tgt Ion: 62 Resp: 3483  
Ion Ratio Lower Upper  
62 100  
98 11.4 7.6 11.4

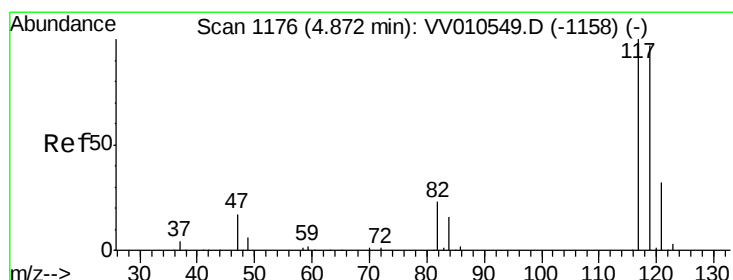
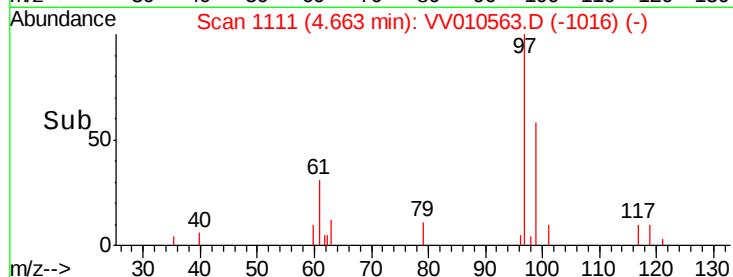
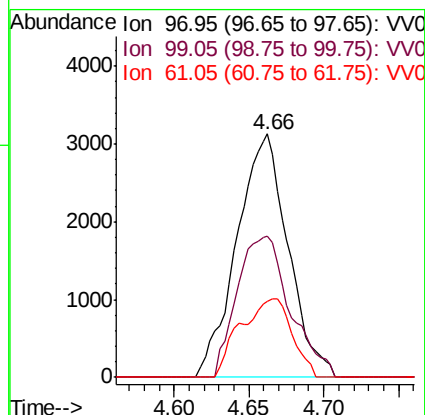
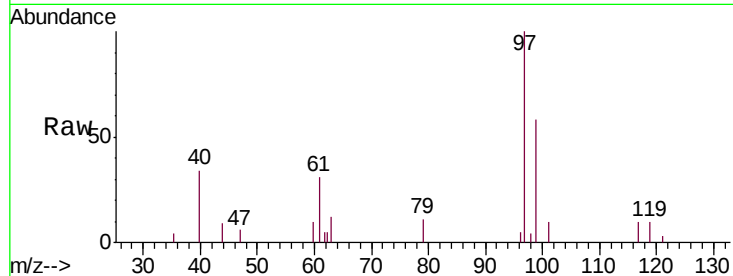




#29  
 1,1,1-Trichloroethane  
 Concen: 0.262 ug/L  
 RT: 4.66 min Scan# 1111  
 Delta R.T. 0.01 min  
 Lab File: VV010563.D  
 Acq: 29 Apr 2019 22:19

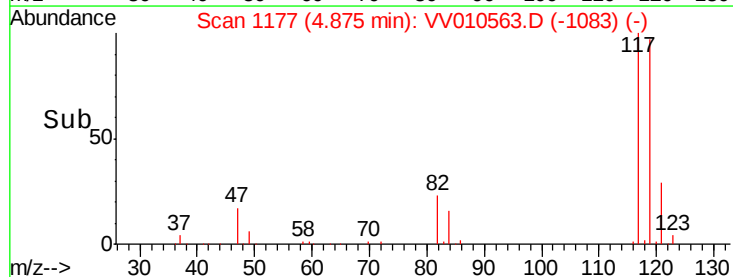
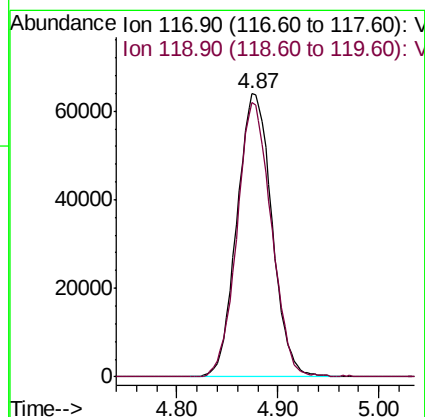
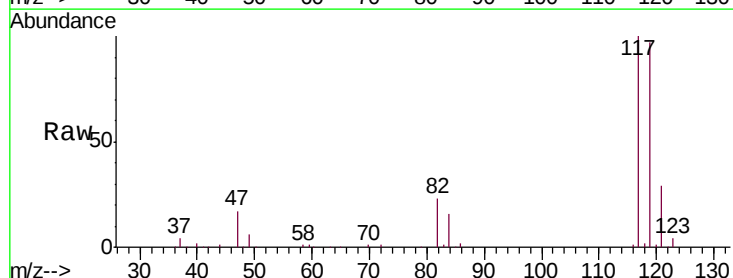
Instrument :  
 MSVOA\_V  
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 C0X80

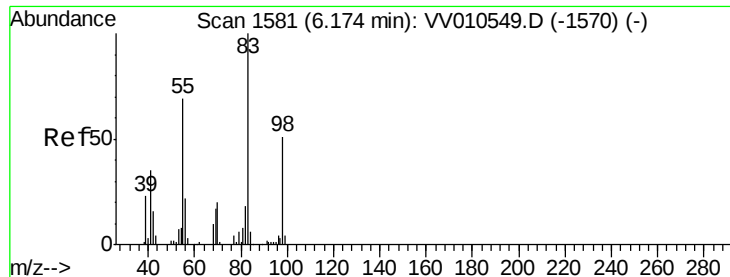
Tgt Ion: 97 Resp: 7440  
 Ion Ratio Lower Upper  
 97 100  
 99 60.2 51.8 77.6  
 61 32.6 31.6 47.4



#31  
 Carbon tetrachloride  
 Concen: 5.653 ug/L  
 RT: 4.87 min Scan# 1177  
 Delta R.T. 0.00 min  
 Lab File: VV010563.D  
 Acq: 29 Apr 2019 22:19

Tgt Ion: 117 Resp: 153710  
 Ion Ratio Lower Upper  
 117 100  
 119 95.2 77.8 116.6





#35

Methylcyclohexane

Concen: 41.137 ug/L

RT: 6.03 min Scan# 1535

Delta R.T. -0.15 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

Instrument :

MSVOA\_V

ClientSampleId :

C0X80

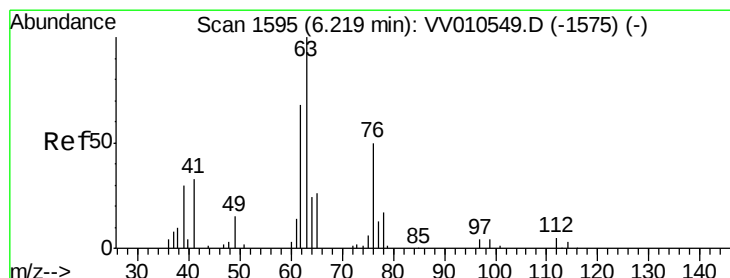
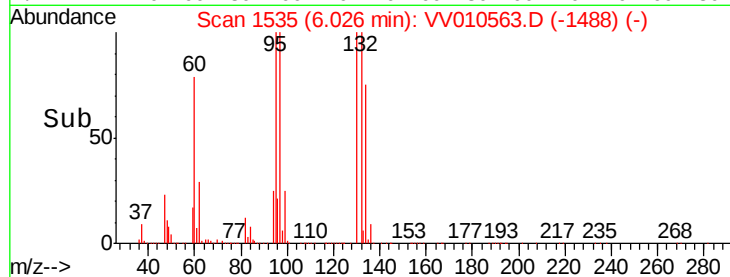
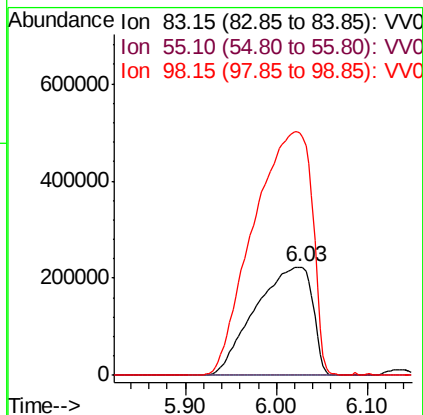
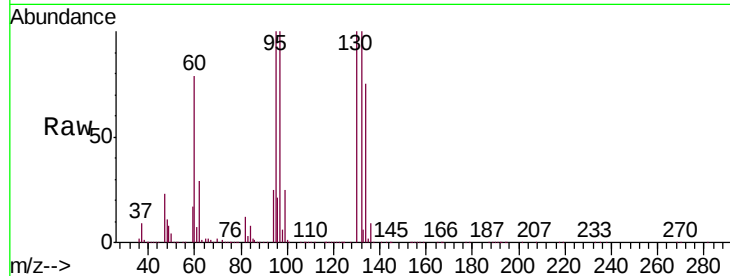
Tgt Ion: 83 Resp: 975934

Ion Ratio Lower Upper

83 100

55 0.0 58.0 87.0#

98 230.2 40.4 60.6#



#37

1,2-Dichloropropane

Concen: 0.635 ug/L

RT: 6.14 min Scan# 1569

Delta R.T. -0.08 min

Lab File: VV010563.D

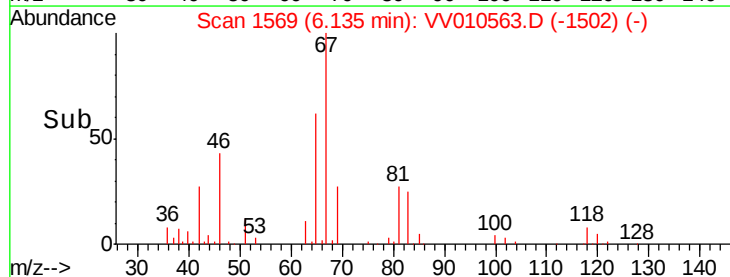
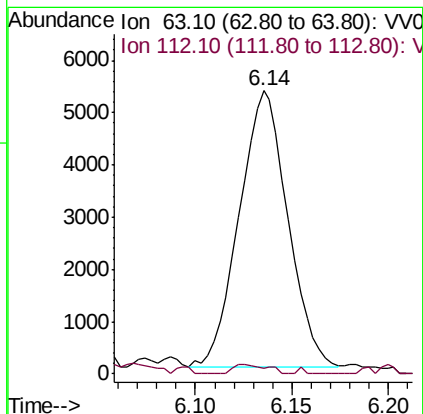
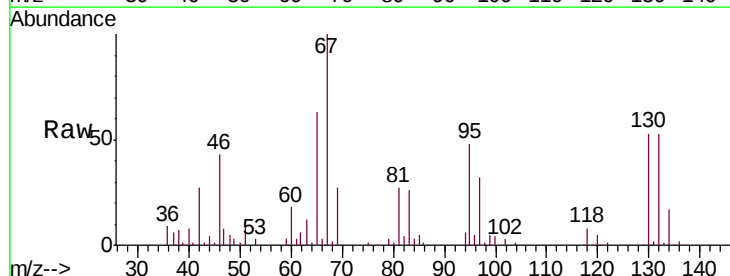
Acq: 29 Apr 2019 22:19

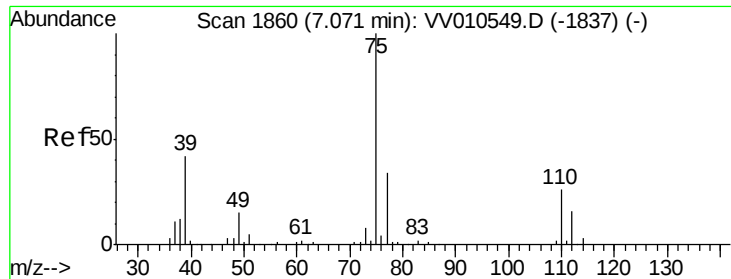
Tgt Ion: 63 Resp: 9195

Ion Ratio Lower Upper

63 100

112 2.4 3.7 5.5#

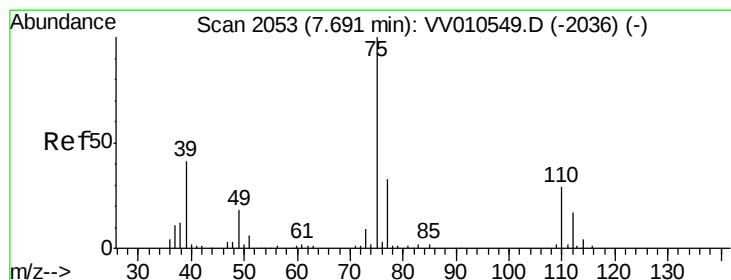
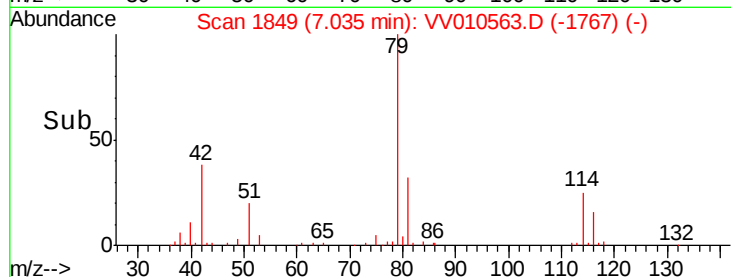
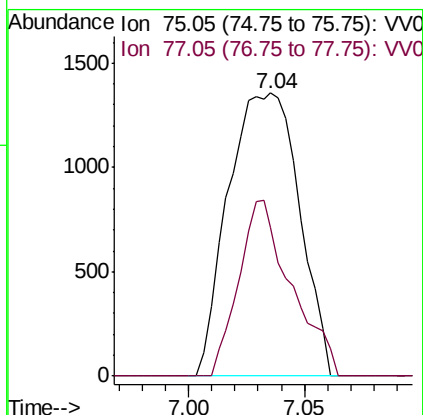
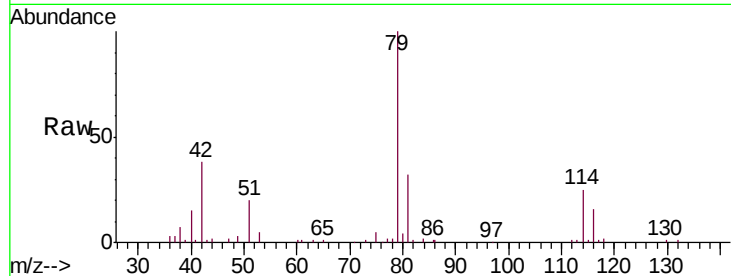




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.138 ug/L  
 RT: 7.04 min Scan# 1849  
 Delta R.T. -0.04 min  
 Lab File: VV010563.D  
 Acq: 29 Apr 2019 22:19

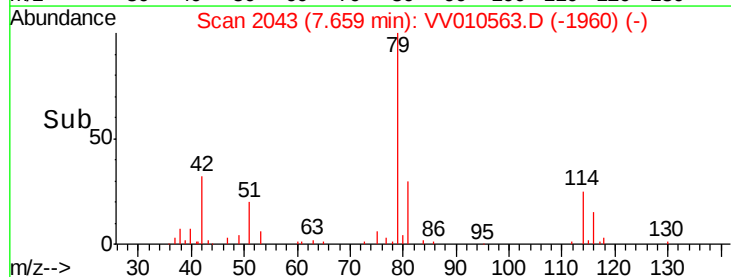
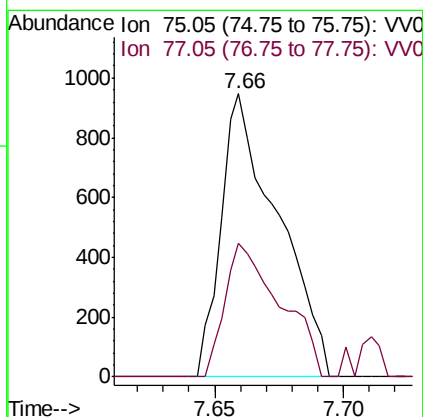
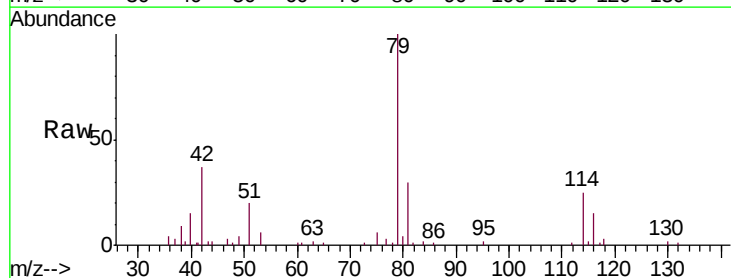
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0X80

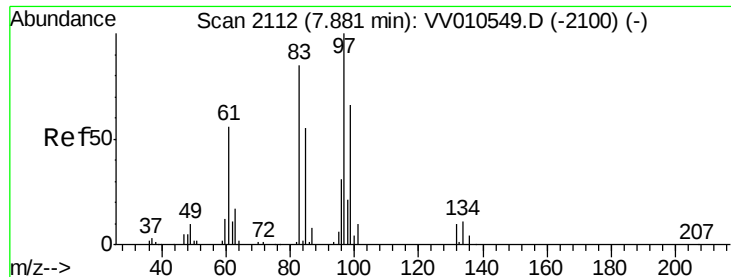
Tgt Ion: 75 Resp: 2885  
 Ion Ratio Lower Upper  
 75 100  
 77 52.5 21.6 40.0#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.088 ug/L  
 RT: 7.66 min Scan# 2043  
 Delta R.T. -0.03 min  
 Lab File: VV010563.D  
 Acq: 29 Apr 2019 22:19

Tgt Ion: 75 Resp: 1450  
 Ion Ratio Lower Upper  
 75 100  
 77 47.2 23.0 42.6#

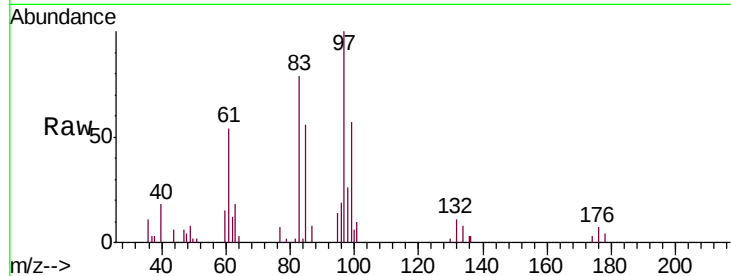




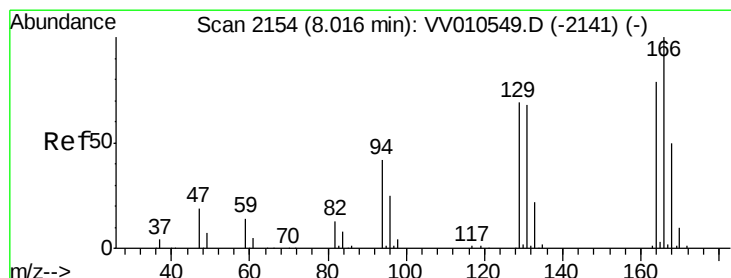
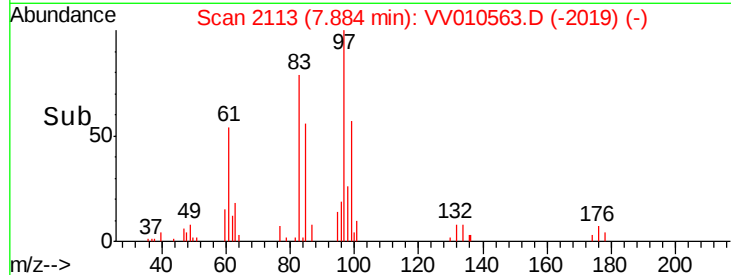
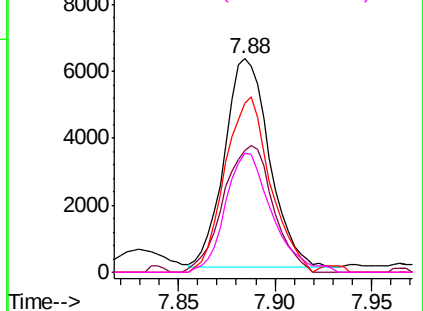
#45  
 1,1,2-Trichloroethane  
 Concen: 0.822 ug/L  
 RT: 7.88 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VV010563.D  
 Acq: 29 Apr 2019 22:19

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0X80

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 10097 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 56.7  | 39.5  | 73.4  |
| 83       | 79.2  | 57.7  | 107.3 |
| 85       | 55.8  | 32.8  | 61.0  |

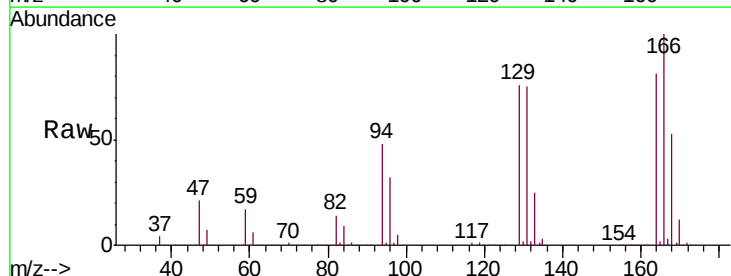


Abundance Ion 96.95 (96.65 to 97.65): VV010549.D (-2100) (-)  
 Ion 99.05 (98.75 to 99.75): VV010549.D (-2100) (-)  
 Ion 82.95 (82.65 to 83.65): VV010549.D (-2100) (-)  
 Ion 85.00 (84.70 to 85.70): VV010549.D (-2100) (-)

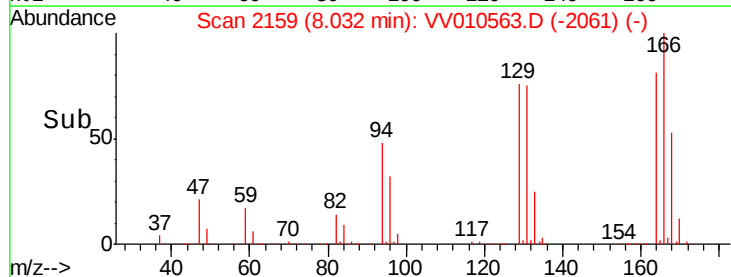
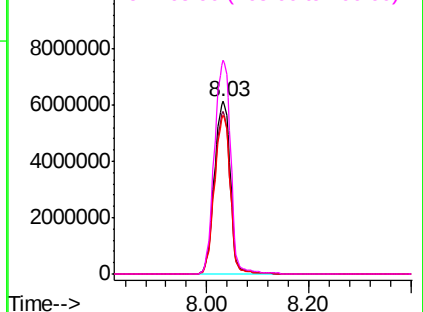


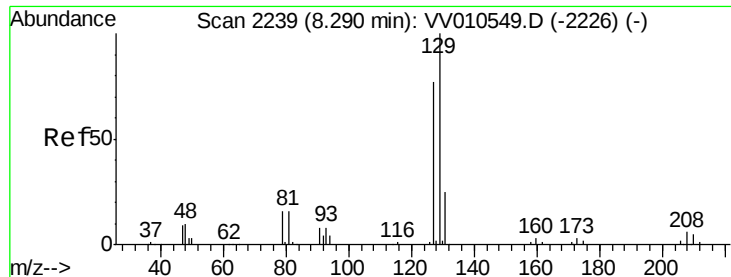
#47  
 Tetrachloroethene  
 Concen: 780.021 ug/L  
 RT: 8.03 min Scan# 2159  
 Delta R.T. 0.02 min  
 Lab File: VV010563.D  
 Acq: 29 Apr 2019 22:19

|          |       |       |          |
|----------|-------|-------|----------|
| Tgt Ion: | 164   | Resp: | 13320674 |
| Ion      | Ratio | Lower | Upper    |
| 164      | 100   |       |          |
| 129      | 94.4  | 62.2  | 115.4    |
| 131      | 92.5  | 61.5  | 114.1    |
| 166      | 124.0 | 89.1  | 165.5    |



Abundance Ion 163.90 (163.60 to 164.60): VV010549.D (-2141) (-)  
 Ion 128.95 (128.65 to 129.65): VV010549.D (-2141) (-)  
 Ion 130.95 (130.65 to 131.65): VV010549.D (-2141) (-)  
 Ion 165.90 (165.60 to 166.60): VV010549.D (-2141) (-)





#49

Dibromochloromethane

Concen: 804.236 ug/L

RT: 8.03 min Scan# 2159

Delta R.T. -0.26 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

Instrument :

MSVOA\_V

ClientSampleId :

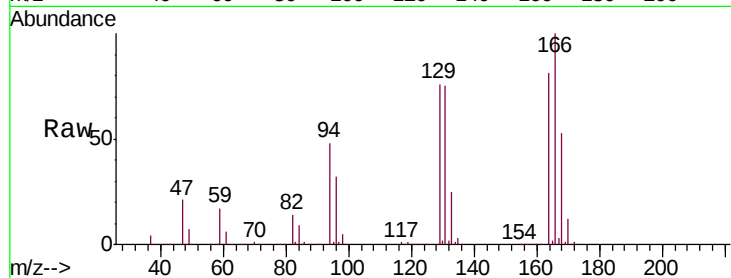
C0X80

Tgt Ion:129 Resp:12139271

Ion Ratio Lower Upper

129 100

127 0.0 51.9 96.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.03

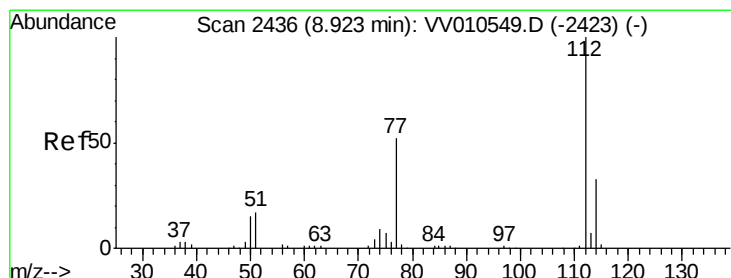
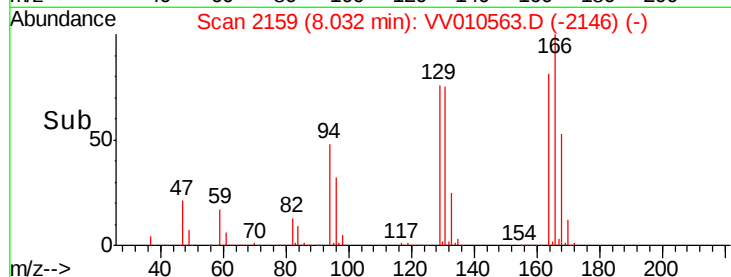
6000000

4000000

2000000

0

Time--> 7.90 8.00 8.10 8.20 8.30



#51

Chlorobenzene

Concen: 0.973 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010563.D

Acq: 29 Apr 2019 22:19

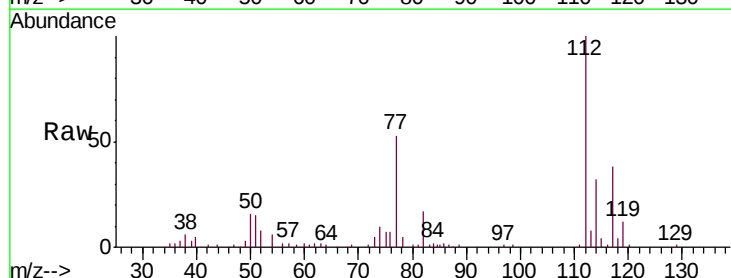
Tgt Ion:112 Resp: 47104

Ion Ratio Lower Upper

112 100

114 32.4 22.7 42.3

77 53.3 41.0 61.6



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

8.93

30000

20000

10000

0

Time--> 8.85 8.90 8.95 9.00

