

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061820\  
 Data File : VV016989.D  
 Acq On : 18 Jun 2020 19:47  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 19 04:39:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 19 04:33:43 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 353268   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 330109   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 175677   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 86878    | 34.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 69.70% |
| 7) Chloroethane-d5             | 1.58    | 69    | 64438    | 43.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.16% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 187744   | 44.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.70% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 169210   | 91.71    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.71% |
| 24) Chloroform-d               | 4.38    | 84    | 234480   | 46.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.52% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 160982   | 46.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.38% |
| 32) Benzene-d6                 | 5.07    | 84    | 432045   | 45.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.80% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 133381   | 44.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.94% |
| 41) Toluene-d8                 | 7.34    | 98    | 403303   | 46.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.38% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 69483    | 44.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.96% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 113178   | 87.52    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 178220   | 45.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.78% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 171346   | 45.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.40% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 134625 | 48.067  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 121149 | 47.300  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 118348 | 46.987  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 66893  | 63.767  | ug/L 95  |
| 8) Chloroethane                | 1.60 | 64  | 61501  | 49.431  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 190427 | 50.522  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 100448 | 53.481  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 92155  | 52.559  | ug/L 92  |
| 13) Acetone                    | 2.19 | 43  | 126561 | 104.114 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 288031 | 45.372  | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 132766 | 49.002  | ug/L 97  |
| 16) Methylene chloride         | 2.52 | 84  | 130708 | 50.802  | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 118182 | 49.435  | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 417630 | 52.722  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 227669 | 50.594  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 132705 | 50.918  | ug/L 95  |
| 22) 2-Butanone                 | 3.99 | 43  | 185150 | 98.770  | ug/L 96  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061820\  
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 Acq On : 18 Jun 2020 19:47  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

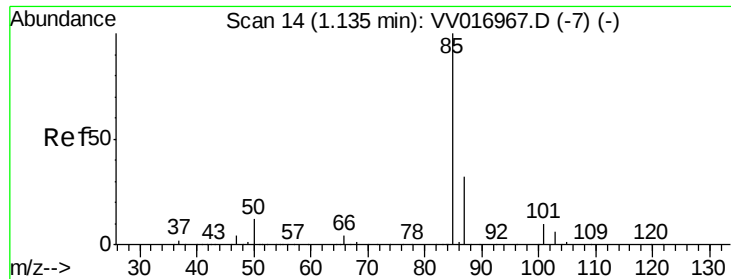
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 19 04:39:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 19 04:33:43 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 71281    | 51.919  | ug/L  | 96       |
| 25) Chloroform                  | 4.40  | 83   | 244586   | 52.888  | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 205114   | 52.909  | ug/L  | 100      |
| 29) Cyclohexane                 | 4.70  | 56   | 197463   | 48.137  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 225616   | 53.592  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 201479   | 55.322  | ug/L  | 98       |
| 33) Benzene                     | 5.13  | 78   | 490225   | 50.192  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 138591   | 52.908  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 198643   | 48.339  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 128590   | 50.626  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 179913   | 53.210  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 208175   | 52.763  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 375896   | 104.439 | ug/L  | 98       |
| 42) Toluene                     | 7.41  | 91   | 530264   | 51.501  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 206453   | 53.823  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 129777   | 52.959  | ug/L  | 96       |
| 46) Tetrachloroethene           | 8.00  | 164  | 108216   | 52.528  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 285634   | 102.352 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 141521   | 54.013  | ug/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 135939   | 52.973  | ug/L  | 100      |
| 51) Chlorobenzene               | 8.90  | 112  | 351772   | 52.366  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.03  | 91   | 602507   | 52.831  | ug/L  | 98       |
| 53) m,p-Xylene                  | 9.16  | 106  | 225416   | 53.086  | ug/L  | 100      |
| 54) o-xylene                    | 9.56  | 106  | 223365   | 53.336  | ug/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 387354   | 54.708  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 606500   | 53.898  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 191743   | 51.034  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 162343   | 51.514  | ug/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 96289    | 53.287  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 285152   | 51.247  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 286139   | 50.542  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 289208   | 51.865  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 42429    | 48.391  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 209765   | 50.555  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 189095   | 49.686  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 564223   | 51.539  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 189261   | 50.824  | ug/L  | 100      |

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





#2

Dichlorodifluoromethane

Concen: 48.067 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

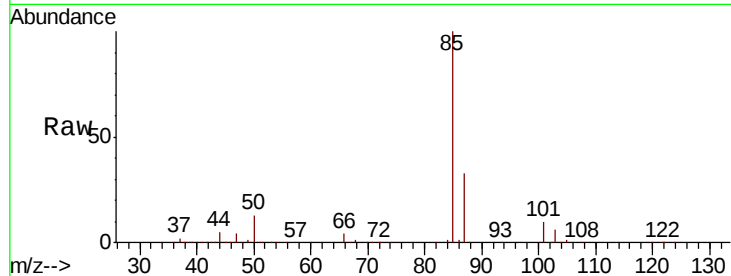
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 85 Resp: 134625

Ion Ratio Lower Upper

85 100

87 32.7 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV016989.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV016989.D (-1) (-)

1.14

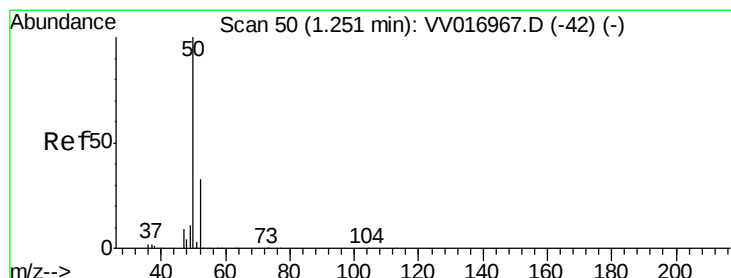
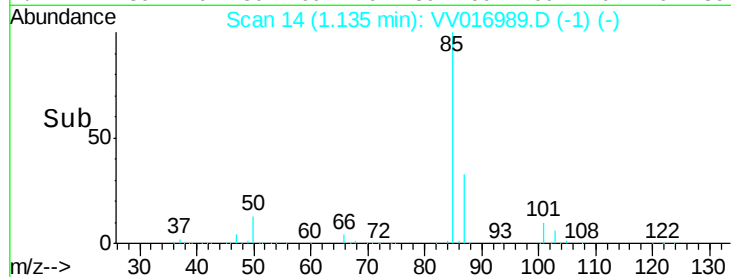
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.300 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016989.D

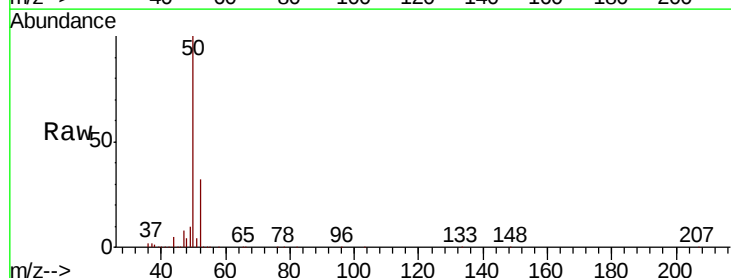
Acq: 18 Jun 2020 19:47

Tgt Ion: 50 Resp: 121149

Ion Ratio Lower Upper

50 100

52 32.3 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV016989.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV016989.D (-1) (-)

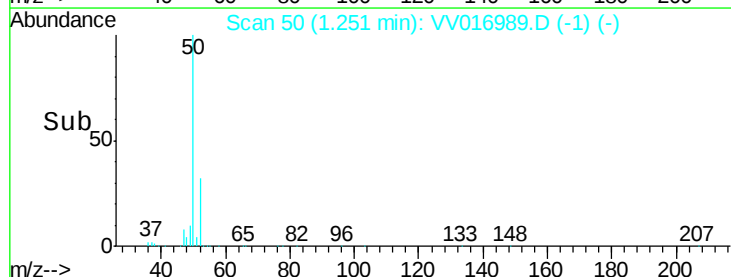
1.25

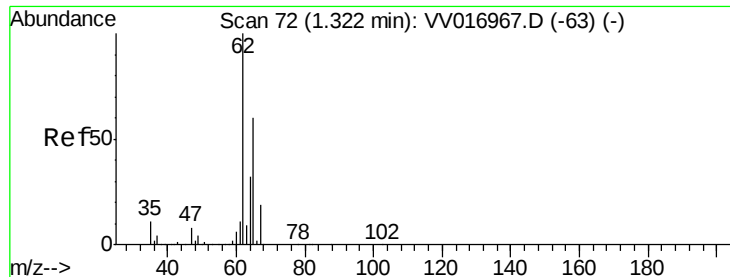
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 46.987 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :

MSVOA\_V

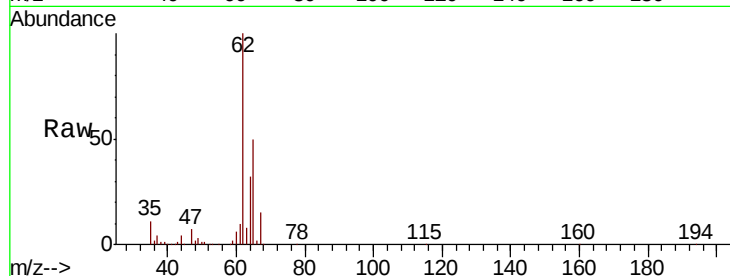
ClientSampled :

Tot Ion: 62 Resp: 118348

Ion Ratio Lower Upper

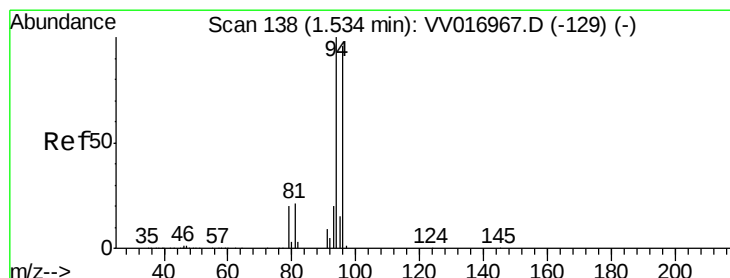
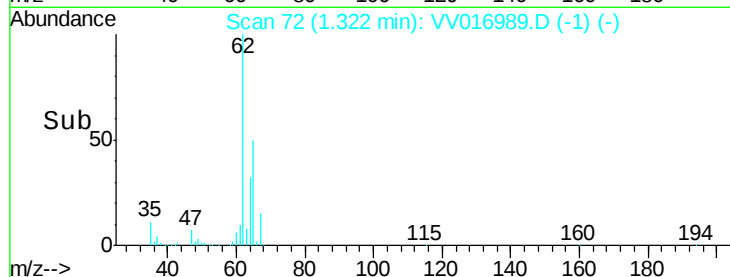
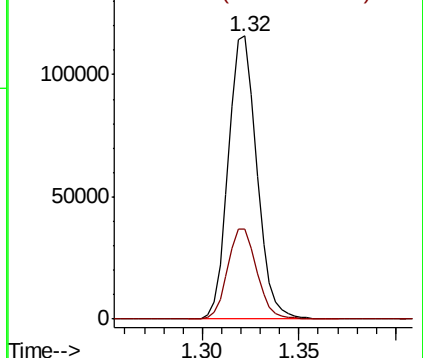
62 100

64 31.6 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 63.767 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV016989.D

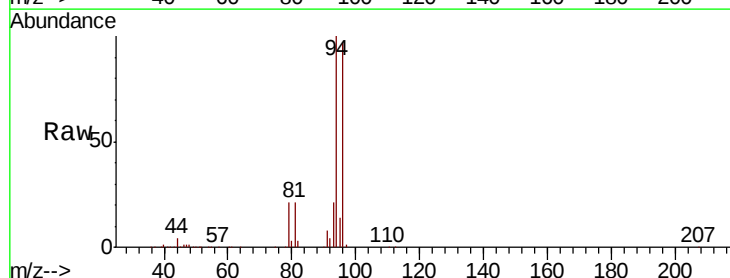
Acq: 18 Jun 2020 19:47

Tgt Ion: 94 Resp: 66893

Ion Ratio Lower Upper

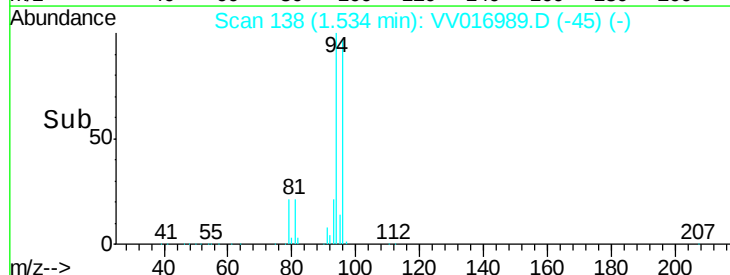
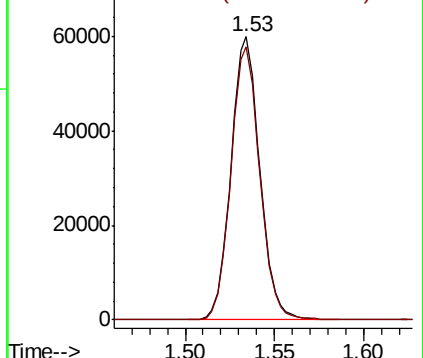
94 100

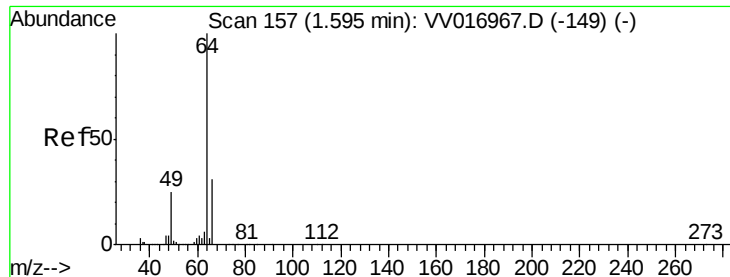
96 96.7 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

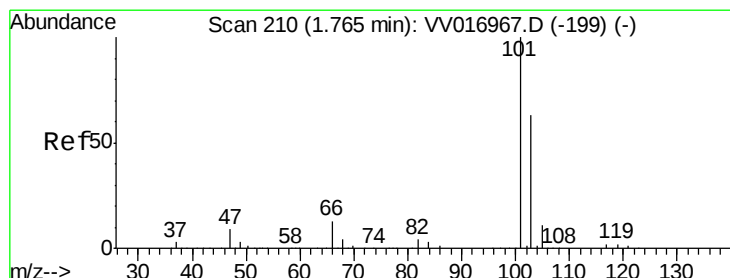
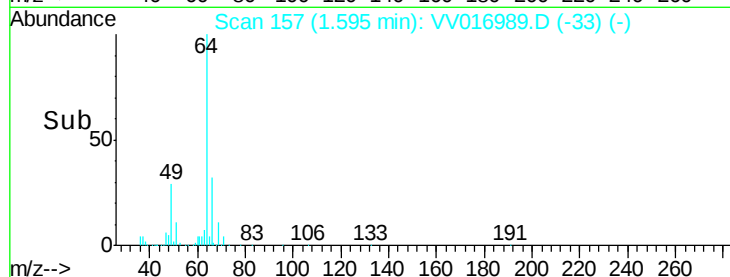
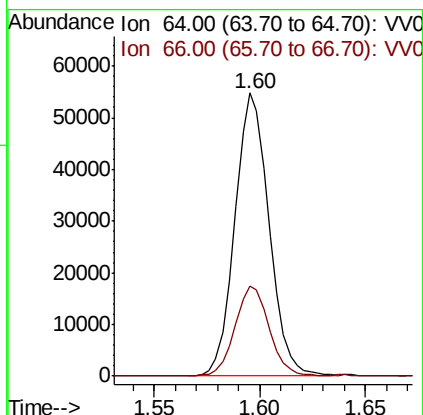
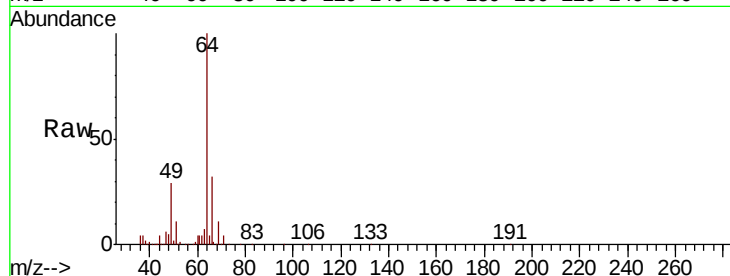




#8  
Chloroethane  
Concen: 49.431 ug/L  
RT: 1.60 min Scan# 157  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

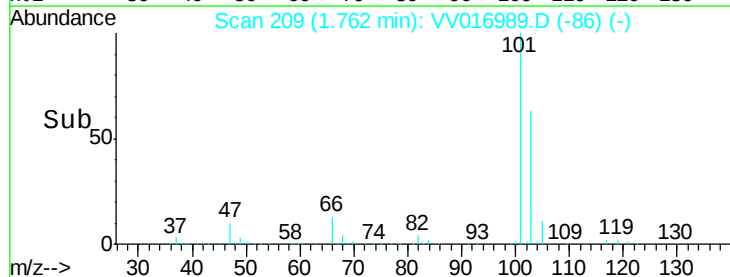
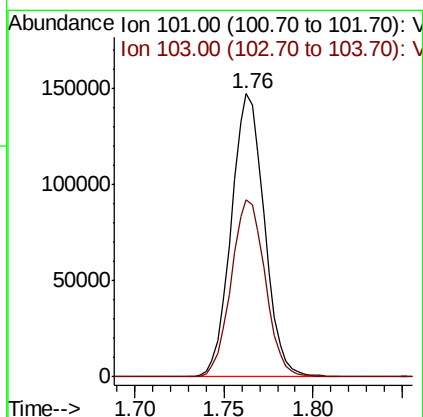
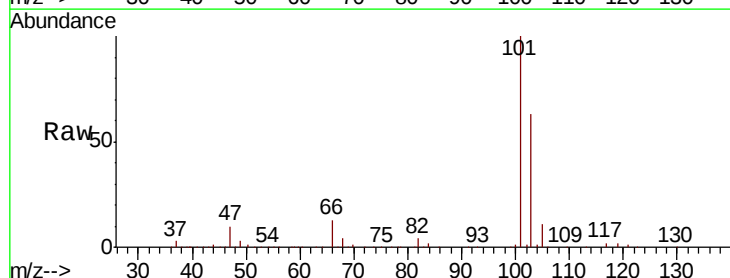
Instrument :  
MSVOA\_V  
ClientSampleId :

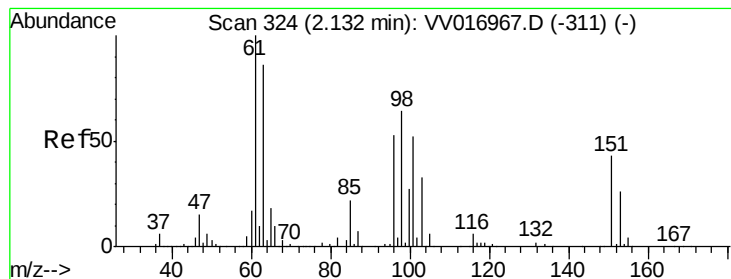
Tot Ion: 64 Resp: 61501  
Ion Ratio Lower Upper  
64 100  
66 32.0 23.2 43.0



#9  
Trichlorofluoromethane  
Concen: 50.522 ug/L  
RT: 1.76 min Scan# 209  
Delta R.T. -0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion:101 Resp: 190427  
Ion Ratio Lower Upper  
101 100  
103 64.3 51.3 76.9





#10

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

Concen: 53.481 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :

MSVOA\_V

ClientSampled :

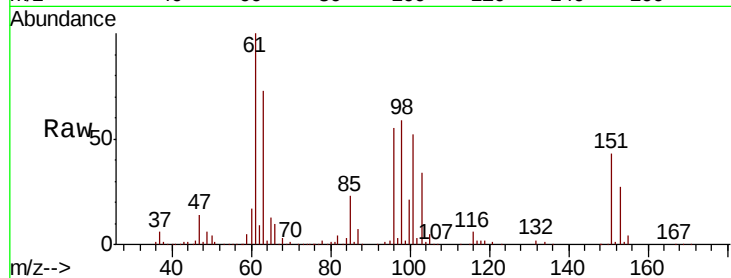
Tot Ion:101 Resp: 100448

Ion Ratio Lower Upper

101 100

85 44.6 35.5 53.3

151 81.7 63.9 95.9



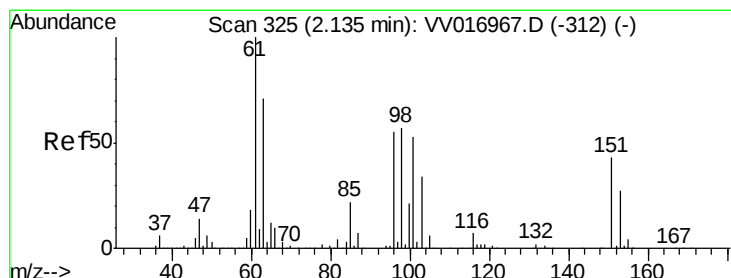
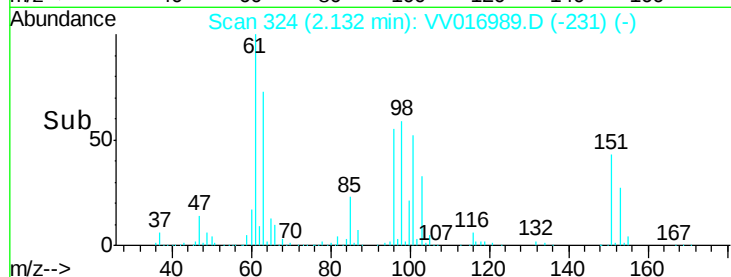
Abundance Ion 101.00 (100.70 to 101.70): VV016989.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV016989.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV016989.D (-231) (-)

2.13

Time-->



#12

1,1-Dichloroethene

Concen: 52.559 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

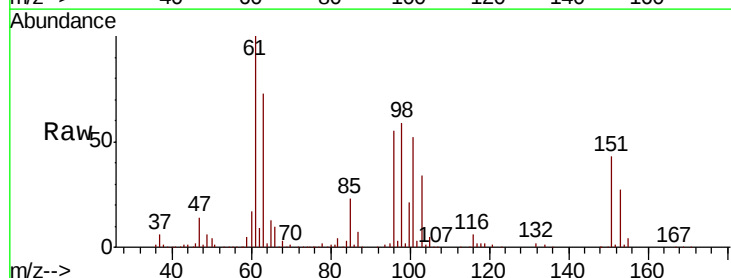
Tgt Ion: 96 Resp: 92155

Ion Ratio Lower Upper

96 100

61 180.5 130.4 242.2

63 132.0 103.3 191.9



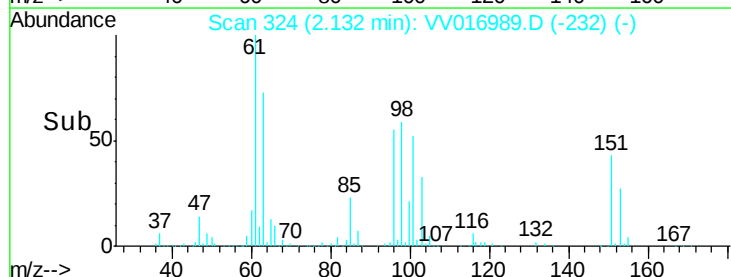
Abundance Ion 96.00 (95.70 to 96.70): VV016989.D (-232) (-)

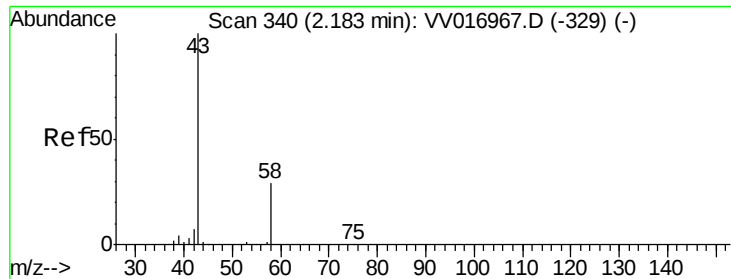
Ion 61.00 (60.70 to 61.70): VV016989.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV016989.D (-232) (-)

2.13

Time-->





#13

Acetone

Concen: 104.114 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :

MSVOA\_V

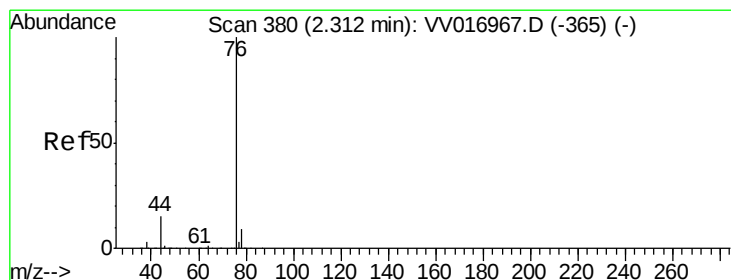
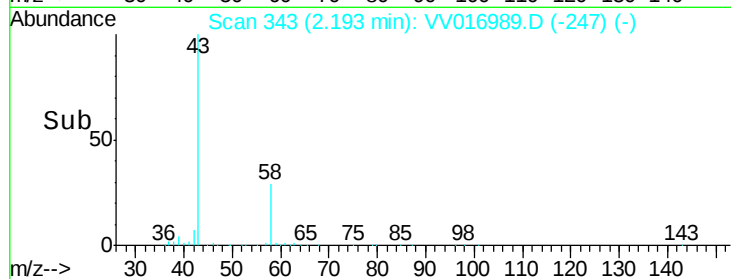
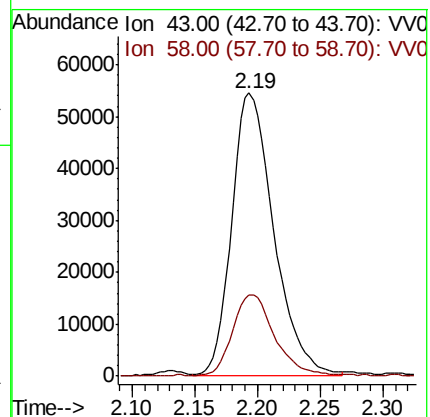
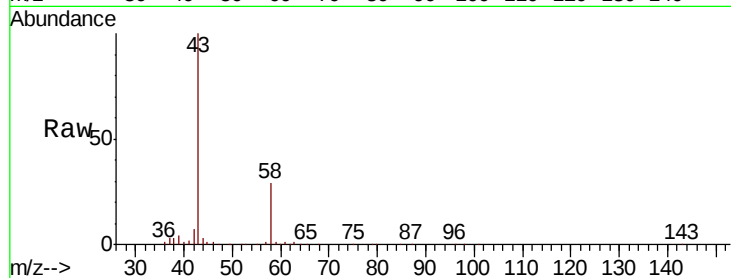
ClientSampleId :

Tot Ion: 43 Resp: 126561

Ion Ratio Lower Upper

43 100

58 28.3 0.0 55.2



#14

Carbon disulfide

Concen: 45.372 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV016989.D

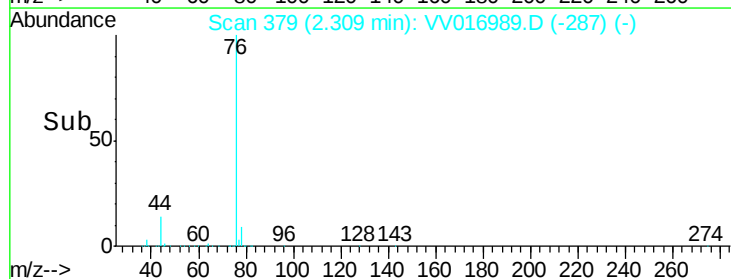
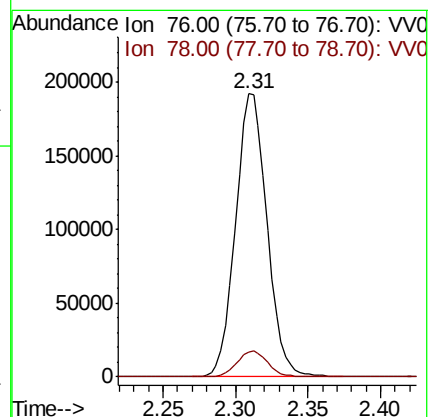
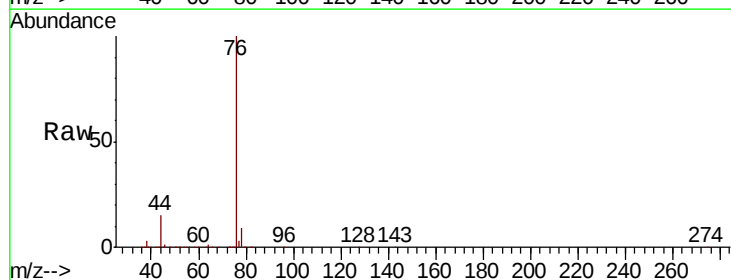
Acq: 18 Jun 2020 19:47

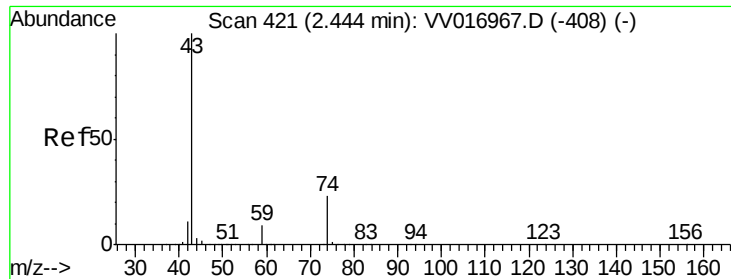
Tgt Ion: 76 Resp: 288031

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0

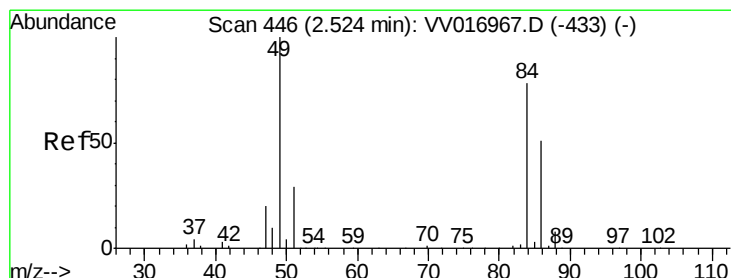
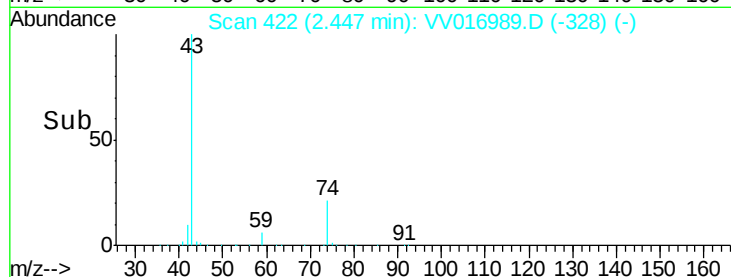
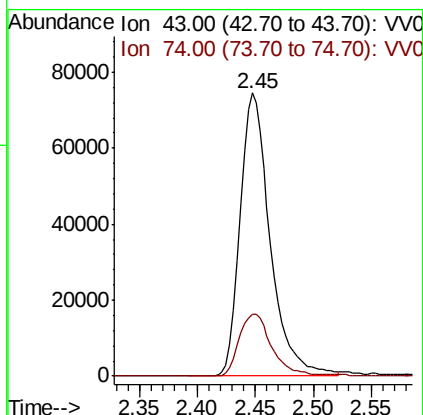
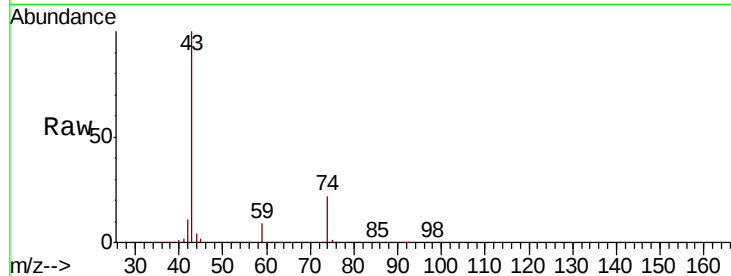




#15  
Methvl Acetate  
Concen: 49.002 ug/L  
RT: 2.45 min Scan# 422  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

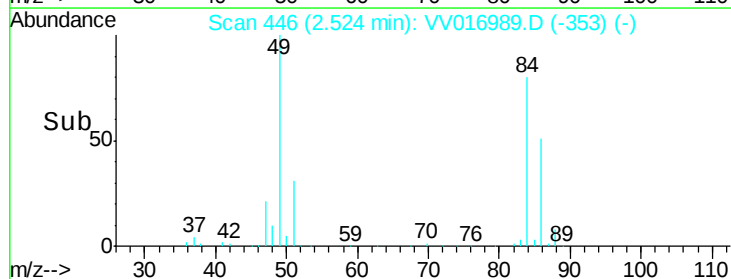
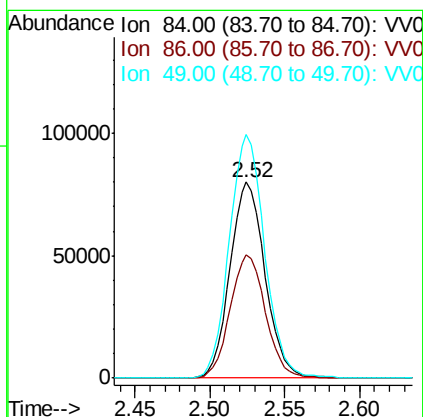
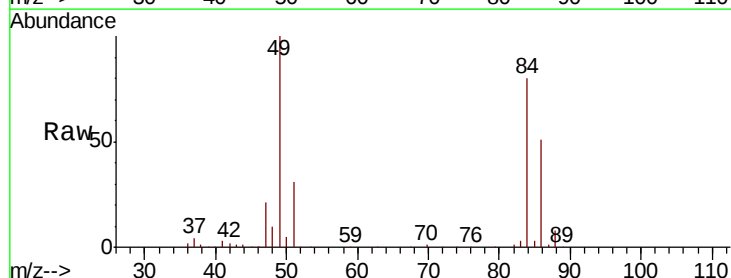
Instrument :  
MSVOA\_V  
ClientSampleId :

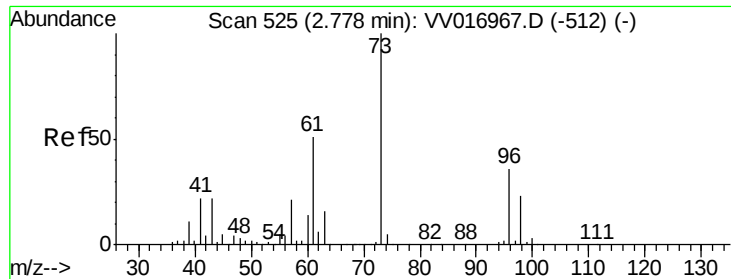
Tot Ion: 43 Resp: 132766  
Ion Ratio Lower Upper  
43 100  
74 23.9 17.9 26.9



#16  
Methylene chloride  
Concen: 50.802 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion: 84 Resp: 130708  
Ion Ratio Lower Upper  
84 100  
86 62.9 44.0 81.8  
49 124.3 90.9 168.9

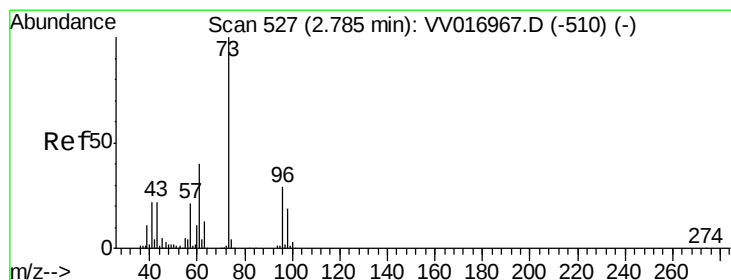
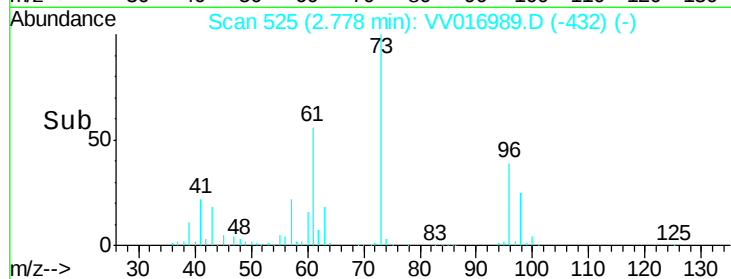
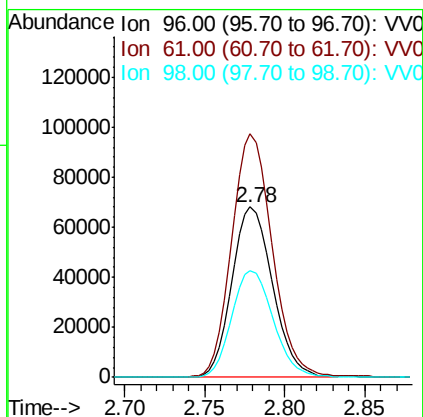
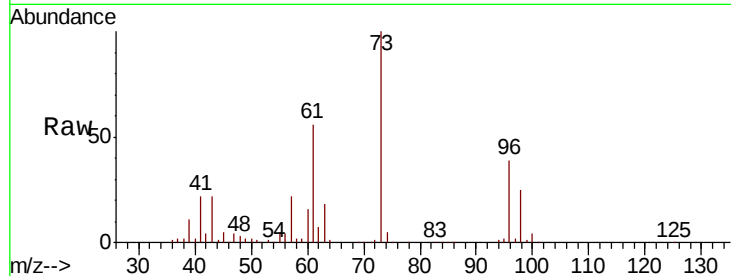




#17  
trans-1,2-Dichloroethene  
Concen: 49.435 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

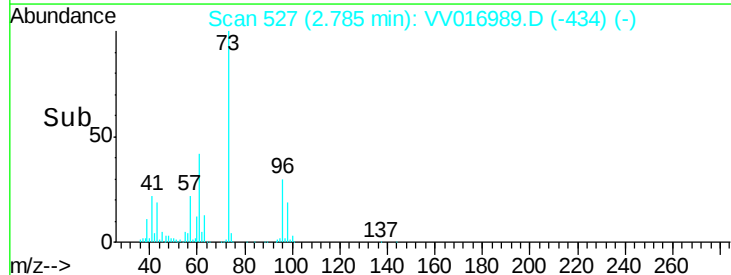
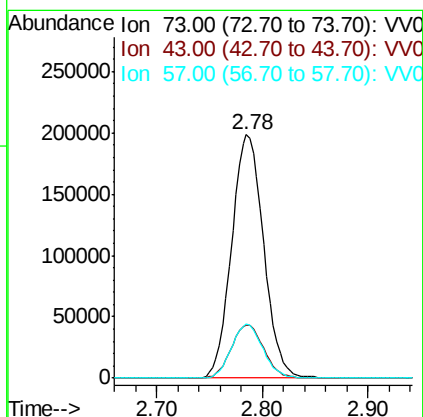
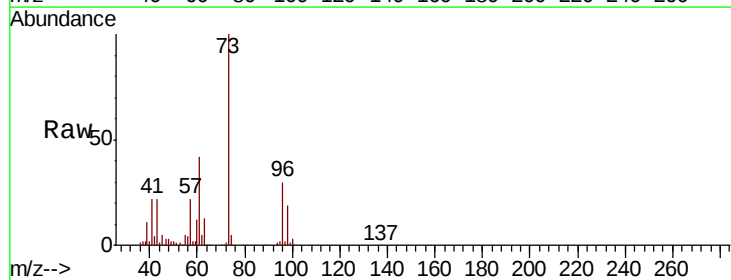
Instrument :  
MSVOA\_V  
ClientSampleId :

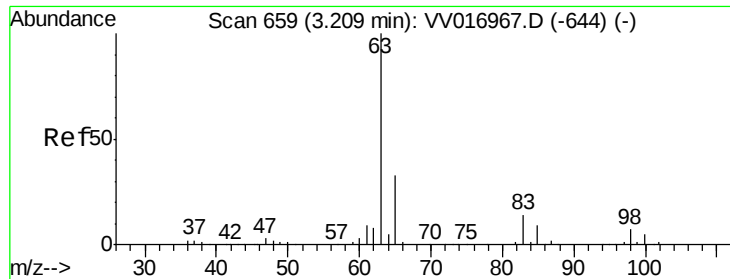
Tot Ion: 96 Resp: 118182  
Ion Ratio Lower Upper  
96 100  
61 143.0 102.9 191.1  
98 63.0 45.5 84.5



#18  
Methyl tert-butyl Ether  
Concen: 52.722 ug/L  
RT: 2.78 min Scan# 527  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion: 73 Resp: 417630  
Ion Ratio Lower Upper  
73 100  
43 21.9 17.8 26.6  
57 21.6 17.7 26.5

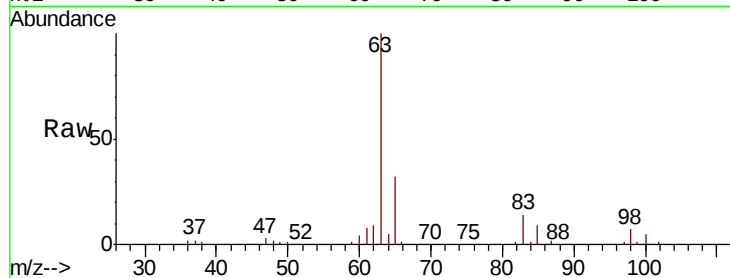




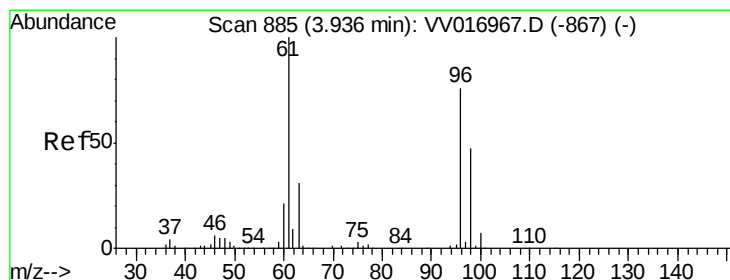
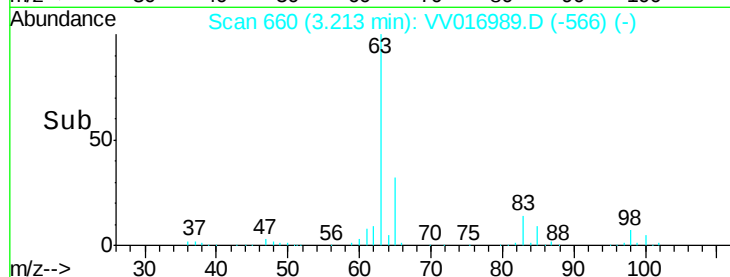
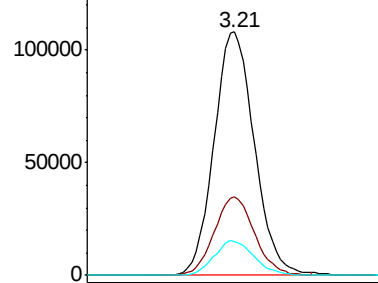
#19  
 1,1-Dichloroethane  
 Concen: 50.594 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Instrument :  
 MSVOA\_V  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.3  | 23.2  | 43.0  |
| 83      | 13.9  | 10.0  | 18.6  |

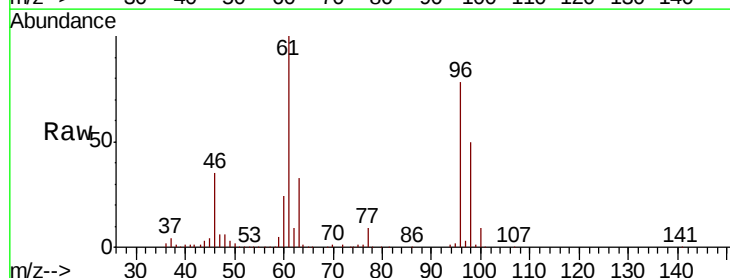


Abundance Ion 63.00 (62.70 to 63.70): VV0  
 Ion 65.00 (64.70 to 65.70): VV0  
 Ion 83.00 (82.70 to 83.70): VV0

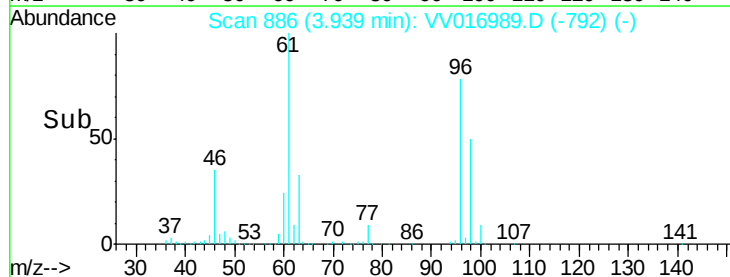
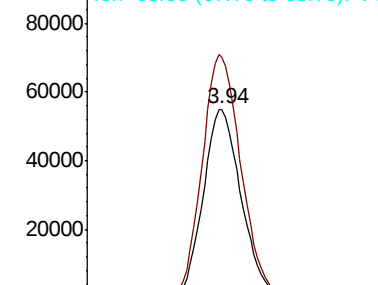


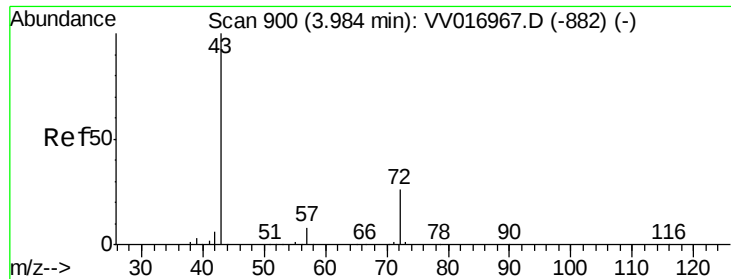
#20  
 cis-1,2-Dichloroethene  
 Concen: 50.918 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 127.9 | 93.4  | 173.4 |
| 68      | 0.0   | 0.0   | 0.0   |



Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 68.00 (67.70 to 68.70): VV0

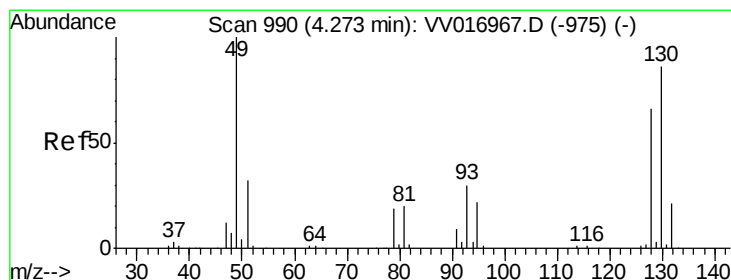
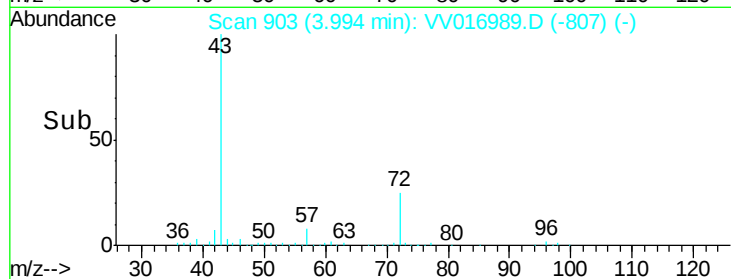
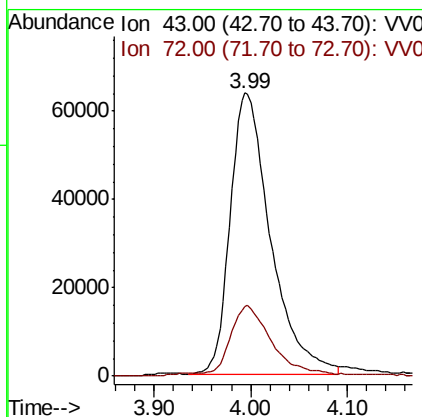
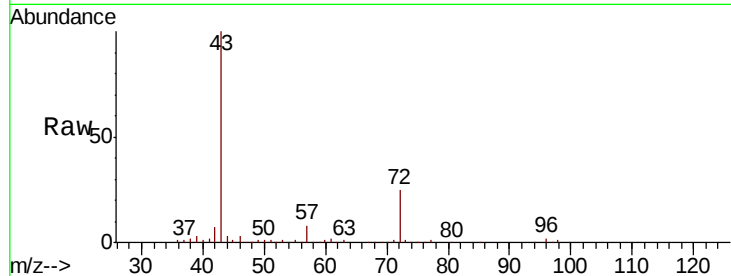




#22  
2-Butanone  
Concen: 98.770 ug/L  
RT: 3.99 min Scan# 903  
Delta R.T. 0.01 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

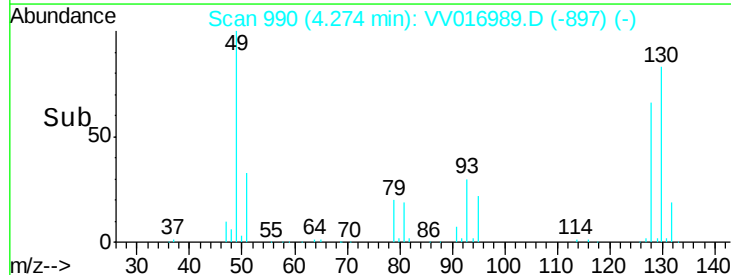
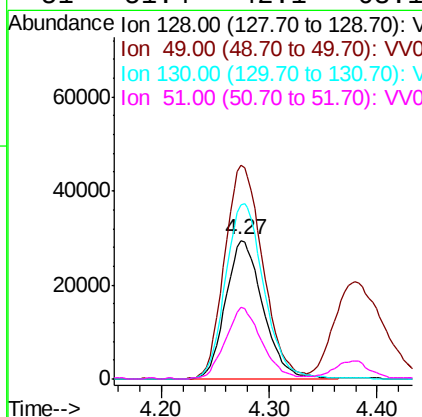
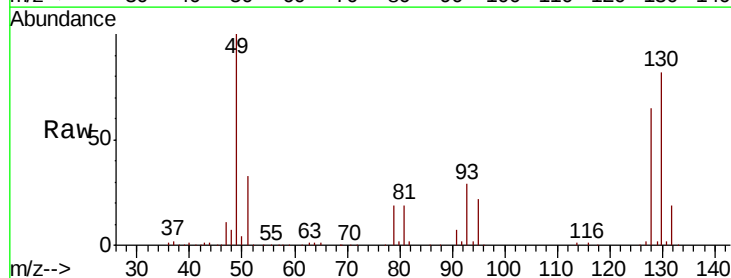
Instrument :  
MSVOA\_V  
ClientSampleId :

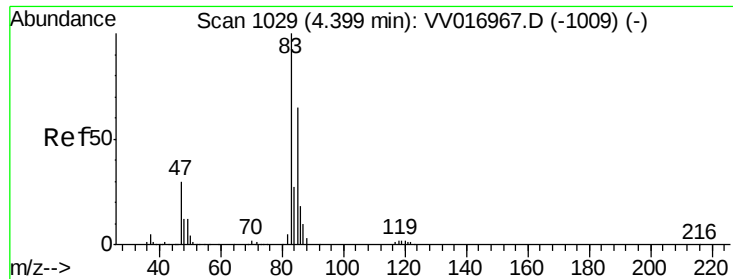
Tot Ion: 43 Resp: 185150  
Ion Ratio Lower Upper  
43 100  
72 22.8 12.4 37.4



#23  
Bromochloromethane  
Concen: 51.919 ug/L  
RT: 4.27 min Scan# 990  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion:128 Resp: 71281  
Ion Ratio Lower Upper  
128 100  
49 154.1 111.9 207.9  
130 125.7 91.5 169.9  
51 51.4 42.1 63.1

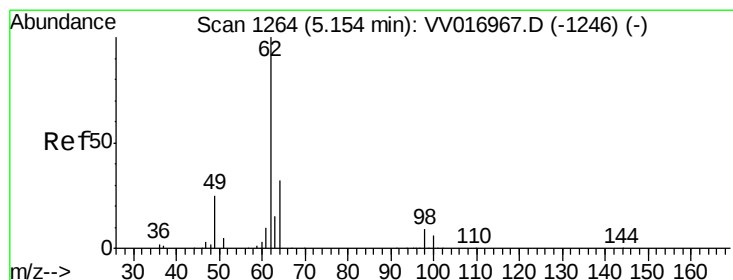
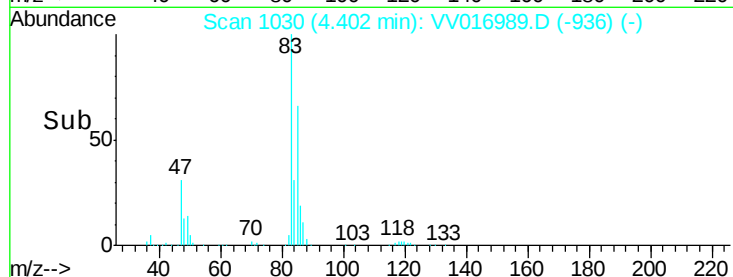
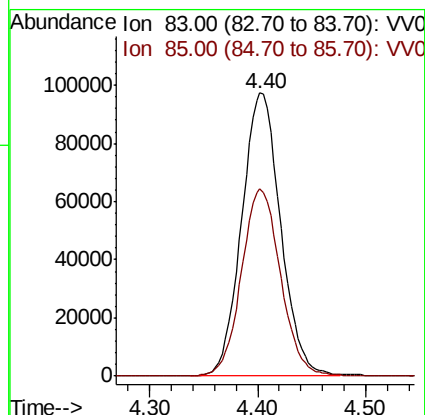
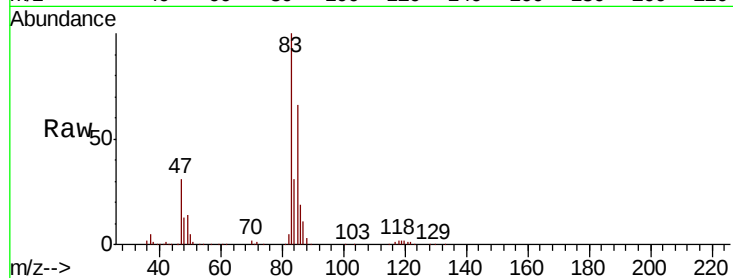




#25  
Chloroform  
Concen: 52.888 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

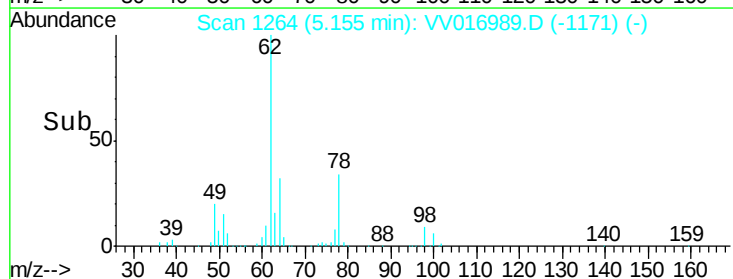
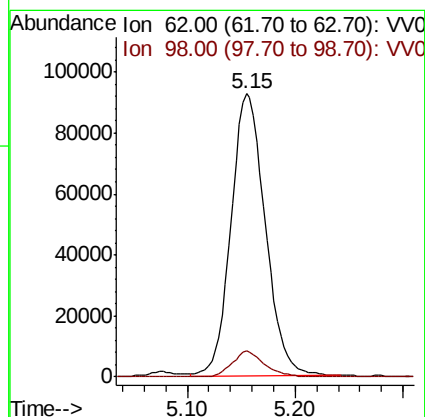
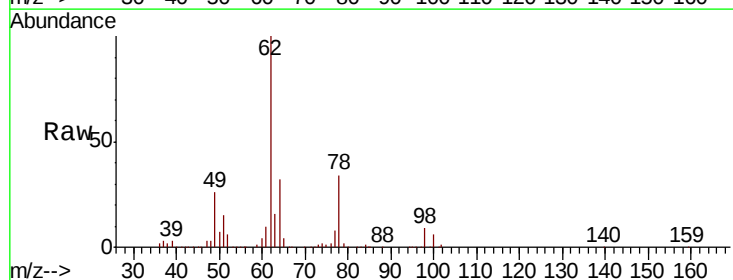
Instrument :  
MSVOA\_V  
ClientSampled :

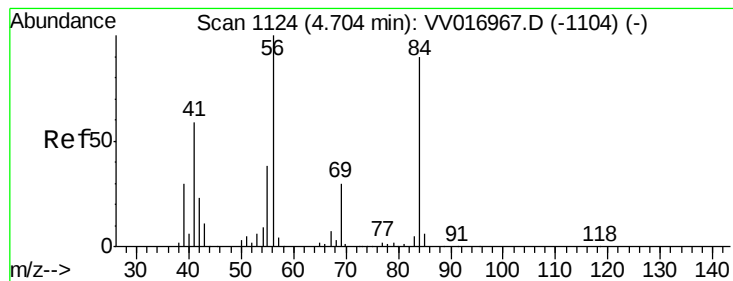
Tot Ion: 83 Resp: 244586  
Ion Ratio Lower Upper  
83 100  
85 66.2 44.1 81.9



#27  
1,2-Dichloroethane  
Concen: 52.909 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion: 62 Resp: 205114  
Ion Ratio Lower Upper  
62 100  
98 9.4 7.4 11.2





#29

Cyclohexane

Concen: 48.137 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :  
MSVOA\_V  
ClientSampleId :

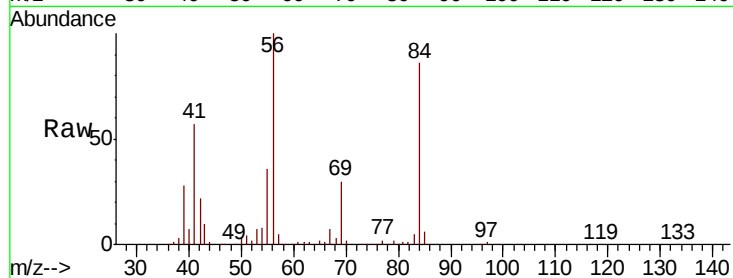
Tot Ion: 56 Resp: 197463

Ion Ratio Lower Upper

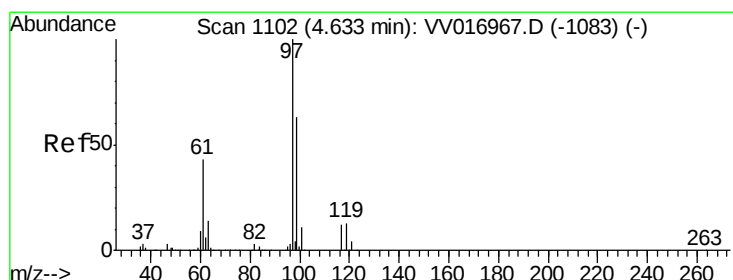
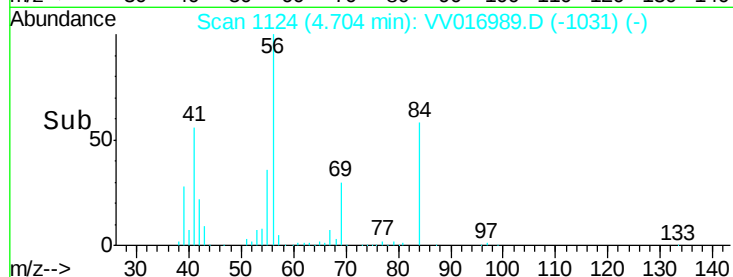
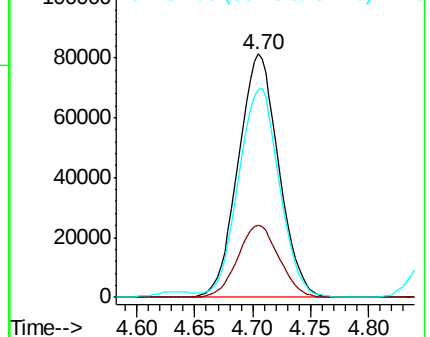
56 100

69 30.3 25.0 37.4

84 86.6 69.5 104.3



Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 53.592 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

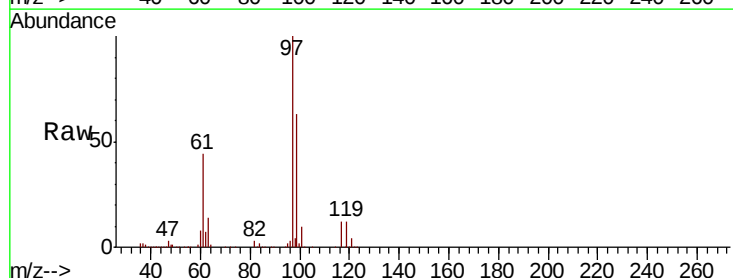
Tgt Ion: 97 Resp: 225616

Ion Ratio Lower Upper

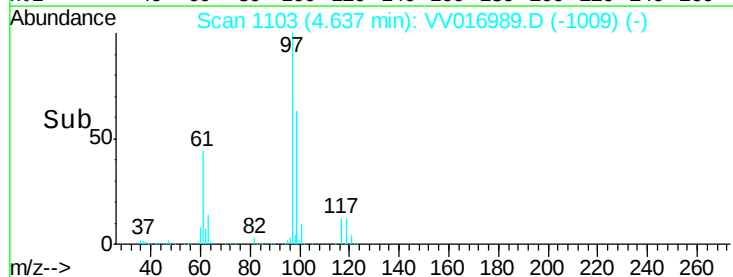
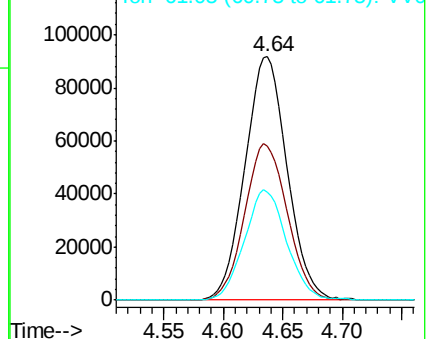
97 100

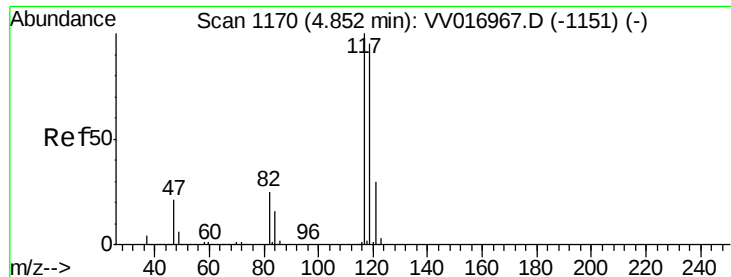
99 65.1 51.3 76.9

61 45.3 36.7 55.1



Abundance Ion 97.00 (96.70 to 97.70): VV0  
Ion 99.00 (98.70 to 99.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0

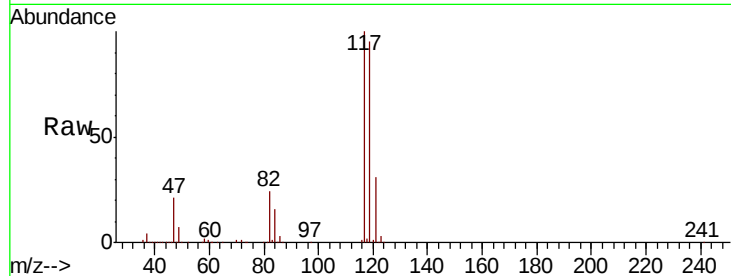




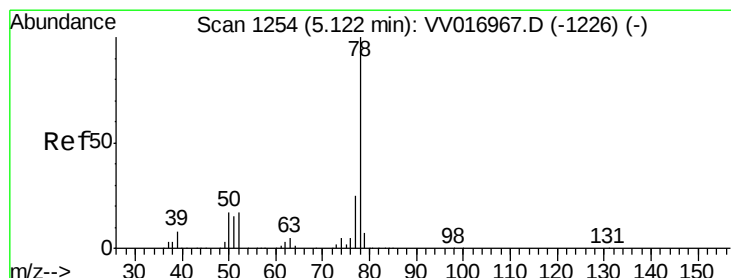
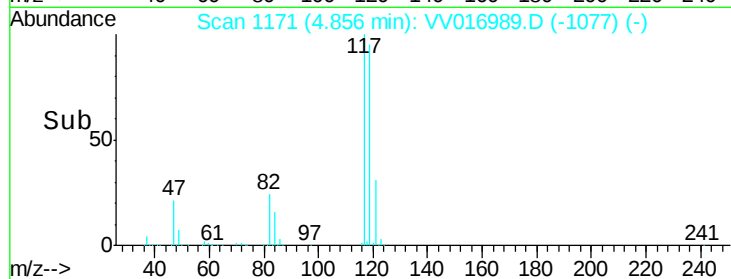
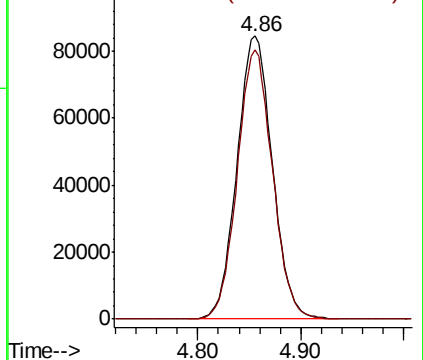
#31  
Carbon tetrachloride  
Concen: 55.322 ug/L  
RT: 4.86 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:117 Resp: 201479  
Ion Ratio Lower Upper  
117 100  
119 94.5 77.4 116.2

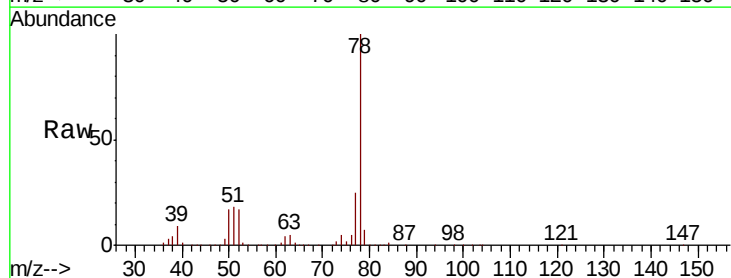


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V

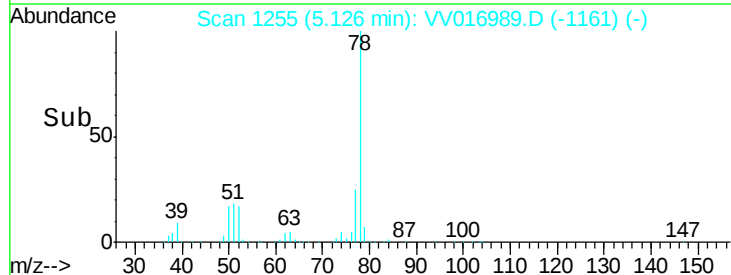
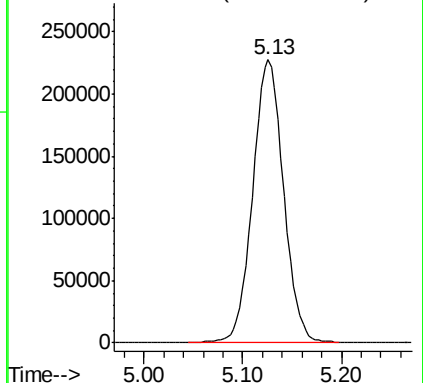


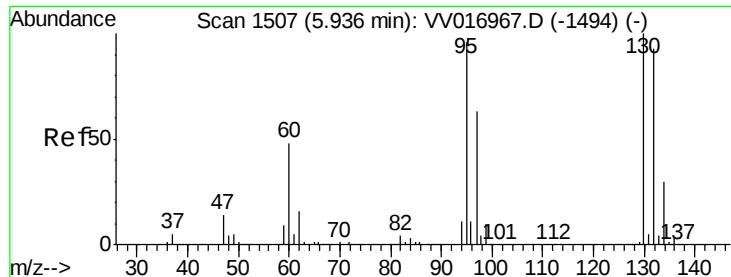
#33  
Benzene  
Concen: 50.192 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion: 78 Resp: 490225



Abundance Ion 78.00 (77.70 to 78.70): VV0

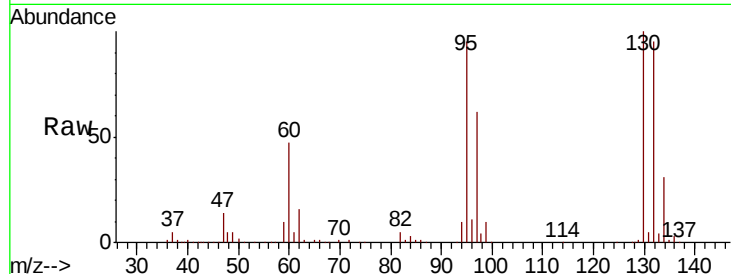




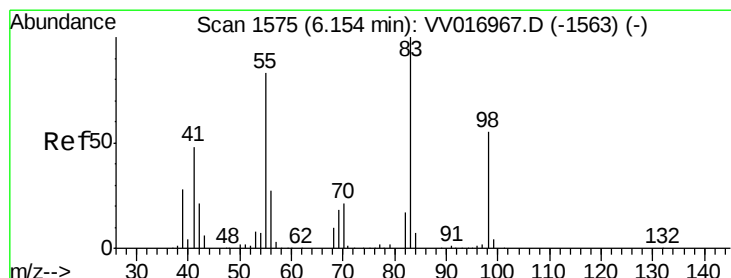
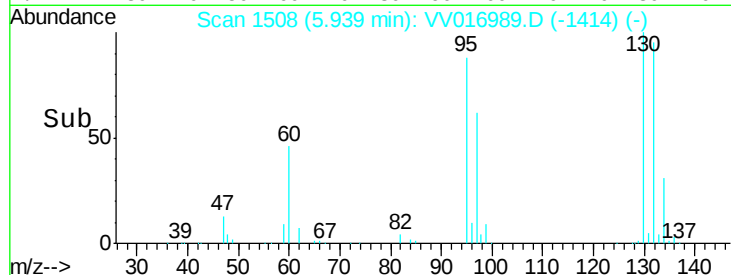
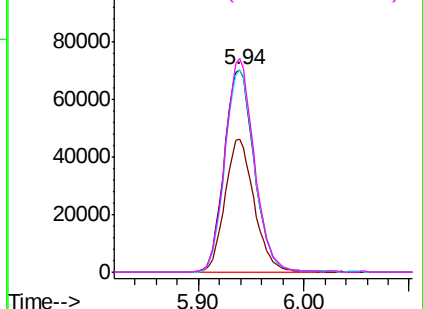
#34  
 Trichloroethene  
 Concen: 52.908 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 95 Resp: 138591  
 Ion Ratio Lower Upper  
 95 100  
 97 65.6 44.3 82.3  
 132 100.0 67.9 126.1  
 130 105.4 72.2 134.2

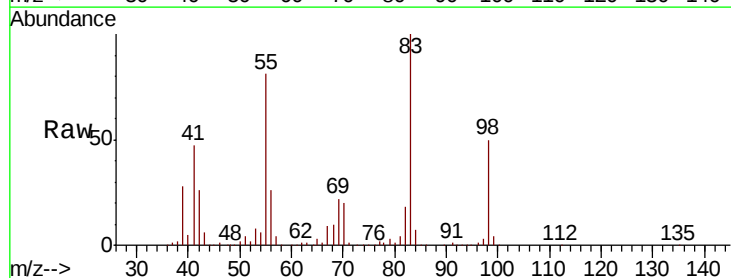


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

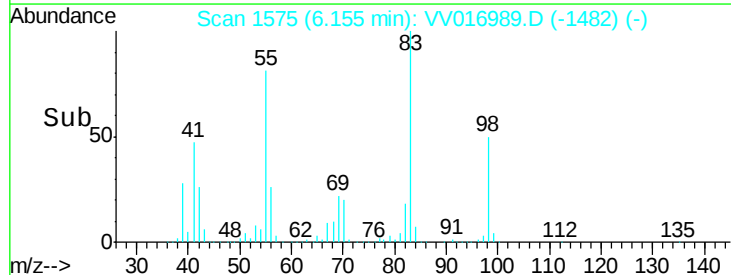
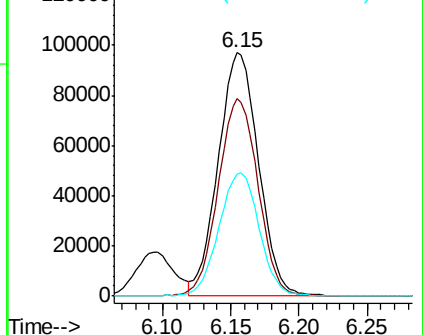


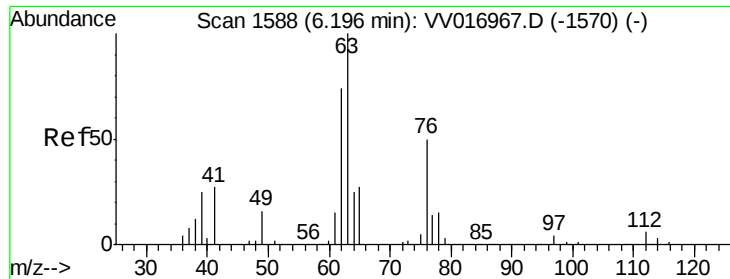
#35  
 Methylcyclohexane  
 Concen: 48.339 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Tgt Ion: 83 Resp: 198643  
 Ion Ratio Lower Upper  
 83 100  
 55 79.5 64.2 96.2  
 98 50.8 40.3 60.5



Abundance Ion 83.00 (82.70 to 83.70): VV0  
 Ion 55.00 (54.70 to 55.70): VV0  
 Ion 98.00 (97.70 to 98.70): VV0

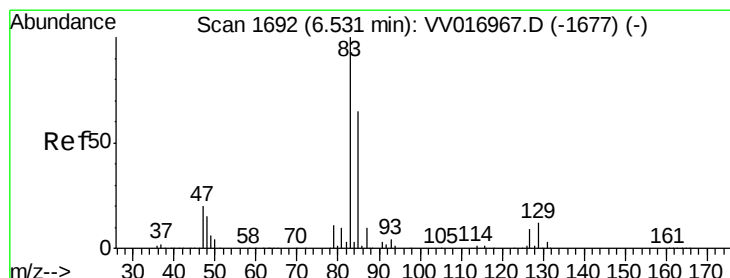
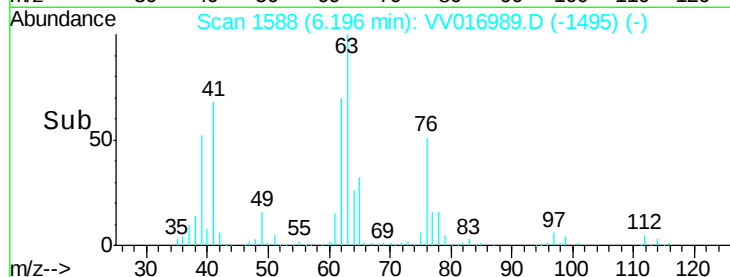
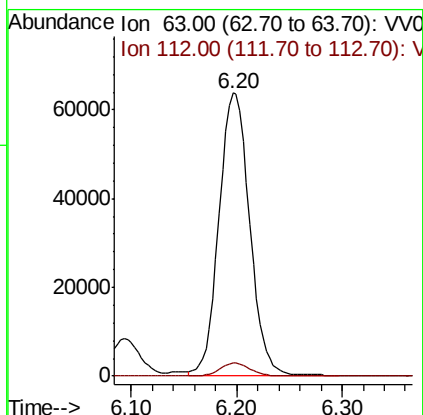
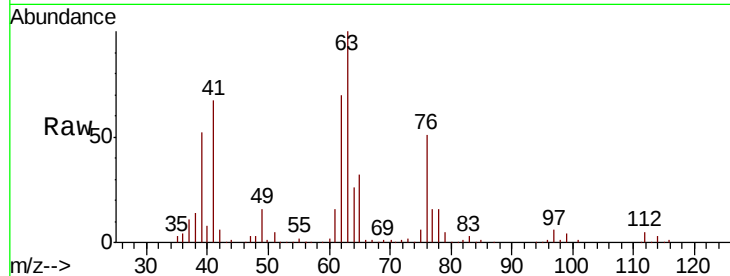




#37  
 1,2-Dichloropropane  
 Concen: 50.626 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

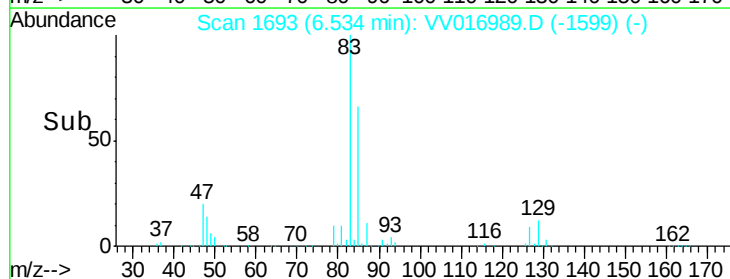
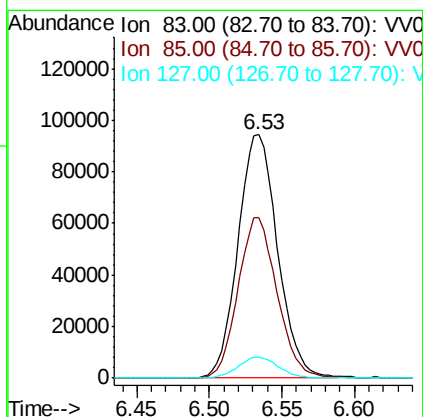
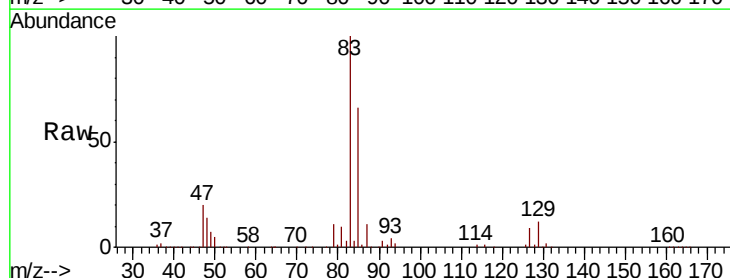
Instrument :  
 MSVOA\_V  
 ClientSampleId :

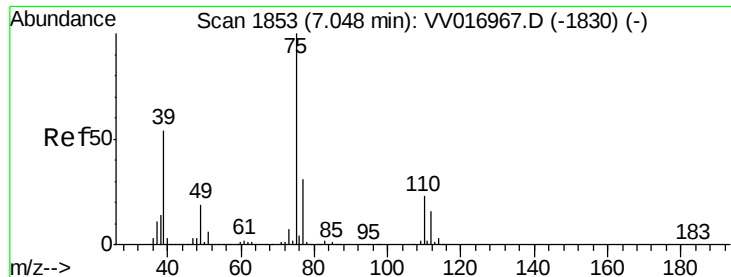
Tot Ion: 63 Resp: 128590  
 Ion Ratio Lower Upper  
 63 100  
 112 4.5 3.8 5.6



#38  
 Bromodichloromethane  
 Concen: 53.210 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Tgt Ion: 83 Resp: 179913  
 Ion Ratio Lower Upper  
 83 100  
 85 66.1 44.4 82.5  
 127 8.7 7.4 11.0

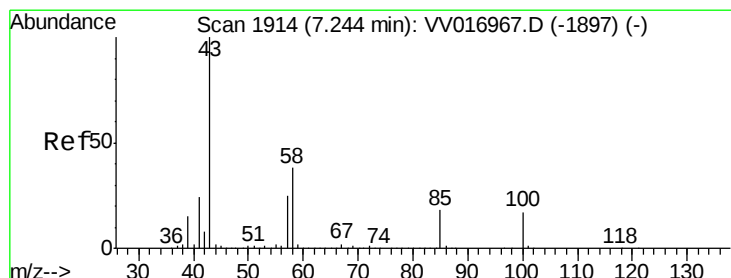
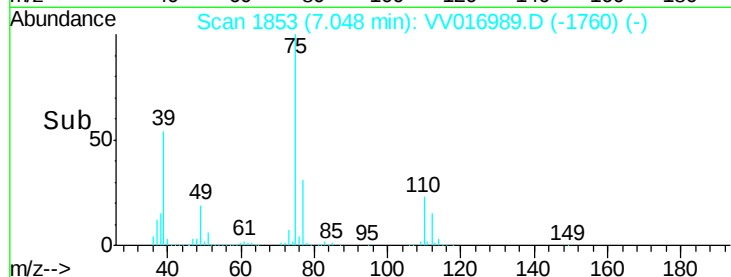
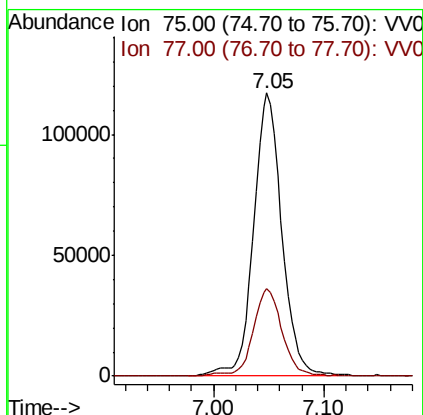
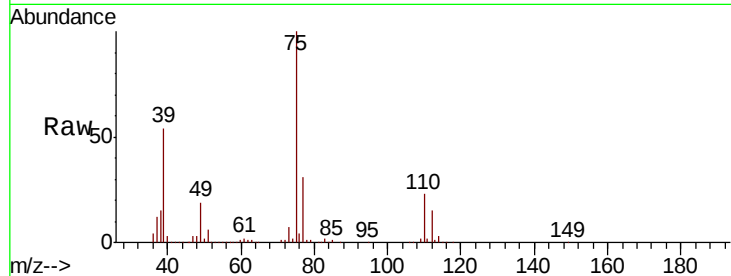




#39  
 cis-1,3-Dichloropropene  
 Concen: 52.763 ug/L  
 RT: 7.05 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

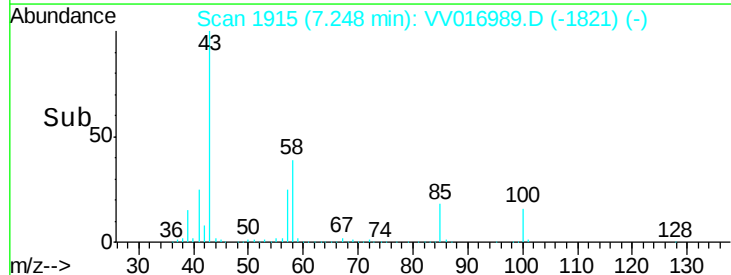
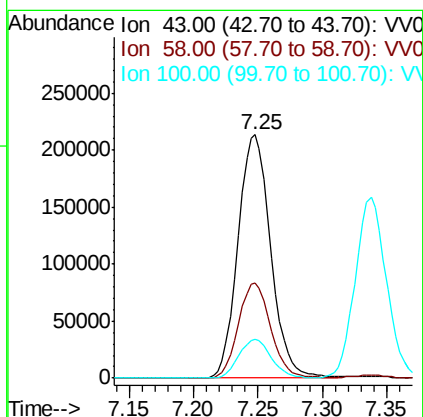
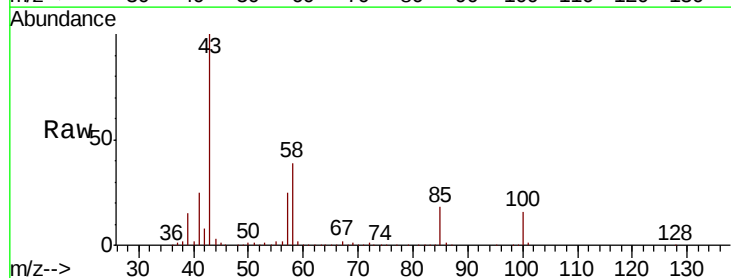
Instrument :  
 MSVOA\_V  
 ClientSampleId :

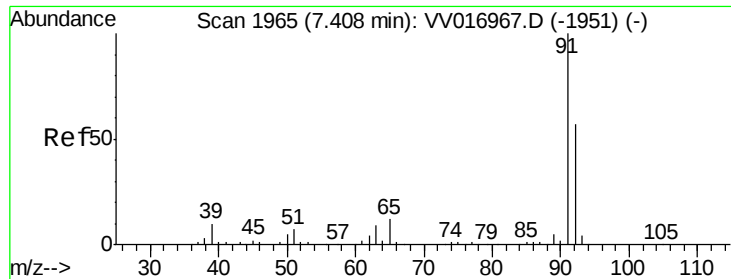
Tot Ion: 75 Resp: 208175  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 22.7 42.1



#40  
 4-Methyl-2-pentanone  
 Concen: 104.439 ug/L  
 RT: 7.25 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Tgt Ion: 43 Resp: 375896  
 Ion Ratio Lower Upper  
 43 100  
 58 38.8 30.2 45.4  
 100 15.9 12.3 18.5





#42

Toluene

Concen: 51.501 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

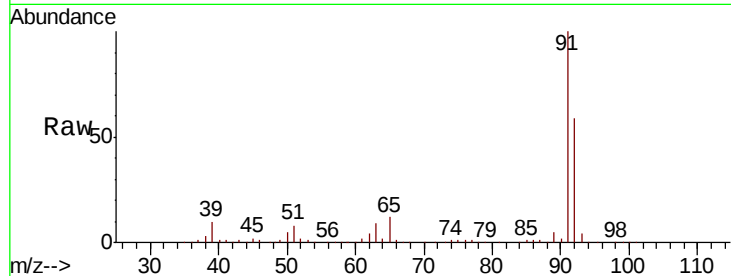
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 530264

Ion Ratio Lower Upper

91 100

92 59.0 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VV016967.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV016967.D (-1951) (-)

7.41

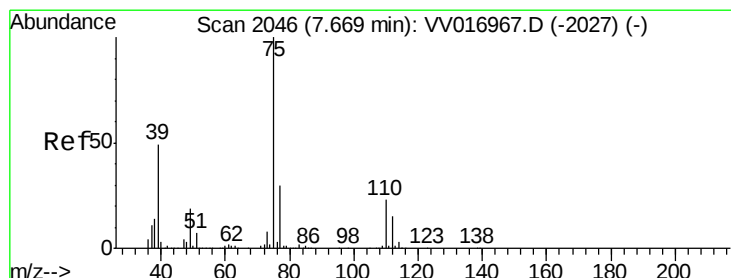
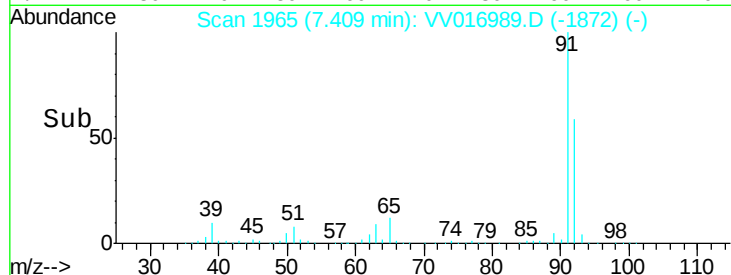
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.823 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV016989.D

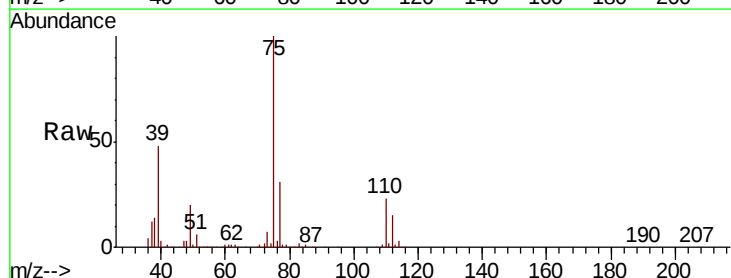
Acq: 18 Jun 2020 19:47

Tgt Ion: 75 Resp: 206453

Ion Ratio Lower Upper

75 100

77 31.0 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV016967.D (-2027) (-)

Ion 77.00 (76.70 to 77.70): VV016967.D (-2027) (-)

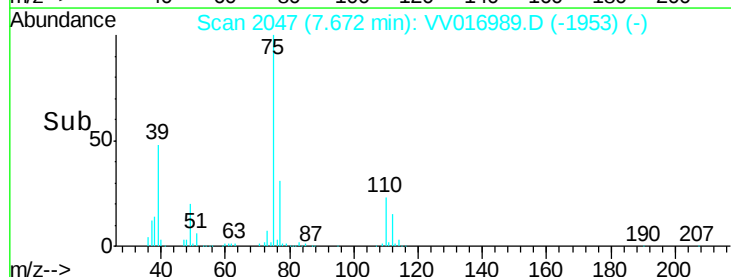
7.67

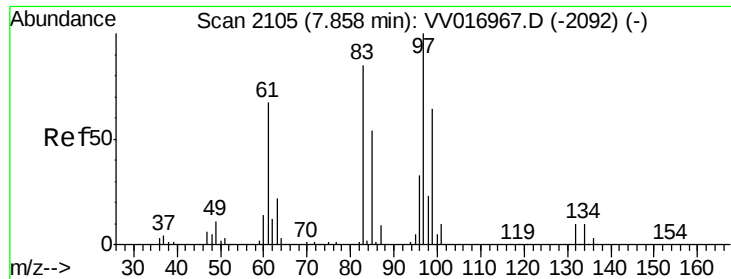
100000

50000

0

Time-->

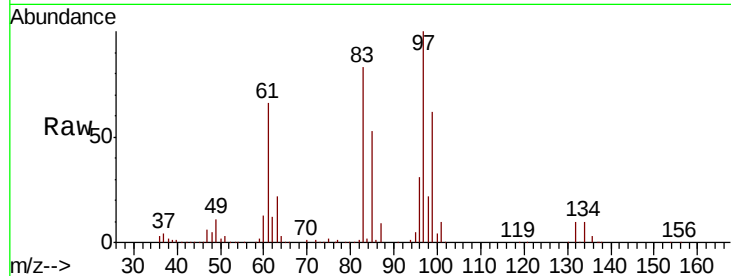




#45  
1,1,2-Trichloroethane  
Concen: 52.959 ug/L  
RT: 7.86 min Scan# 2105  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

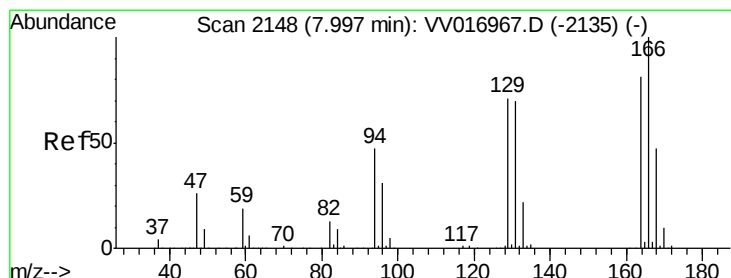
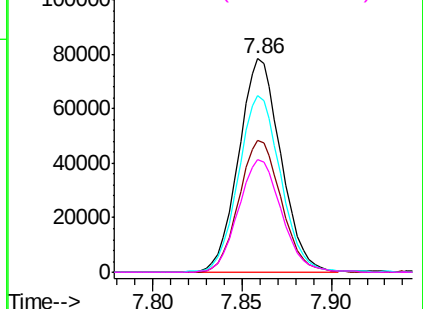
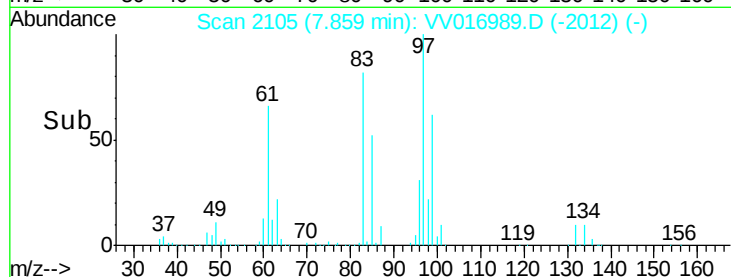
Instrument :  
MSVOA\_V  
ClientSampled :

| Tot Ion: | 97    | Resp: | 129777 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 61.7  | 44.3  | 82.3   |
| 83       | 82.6  | 60.0  | 111.4  |
| 85       | 52.5  | 39.5  | 73.3   |



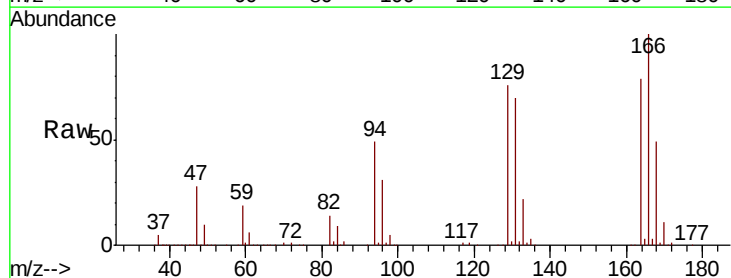
Abundance

Ion 97.00 (96.70 to 97.70): VV016989.D (-2012) (-)



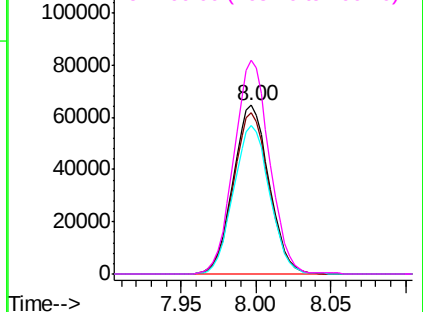
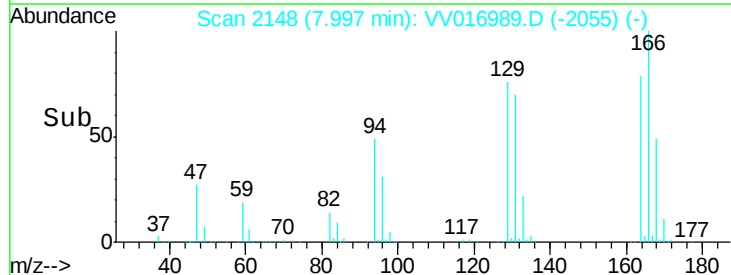
#46  
Tetrachloroethene  
Concen: 52.528 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

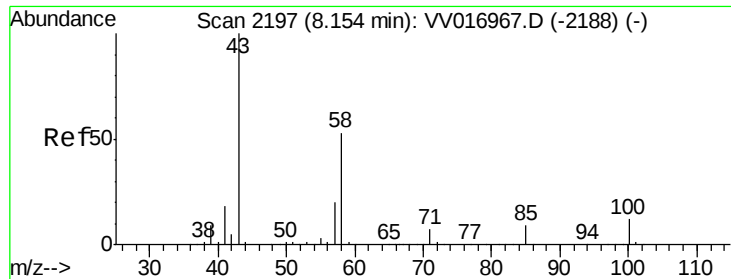
| Tgt Ion: | 164   | Resp: | 108216 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 96.1  | 67.0  | 124.4  |
| 131      | 88.2  | 64.8  | 120.3  |
| 166      | 126.8 | 90.4  | 167.8  |



Abundance

Ion 164.00 (163.70 to 164.70): VV016989.D (-2055) (-)

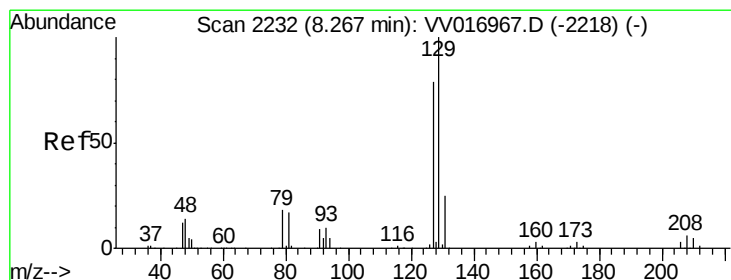
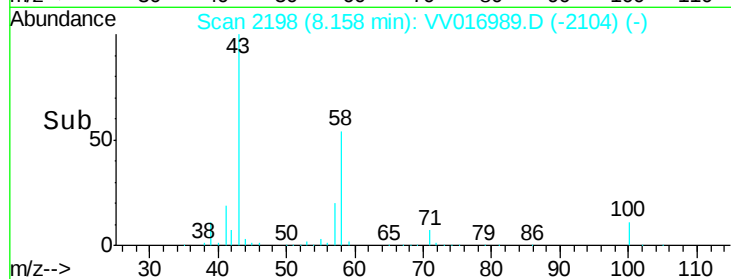
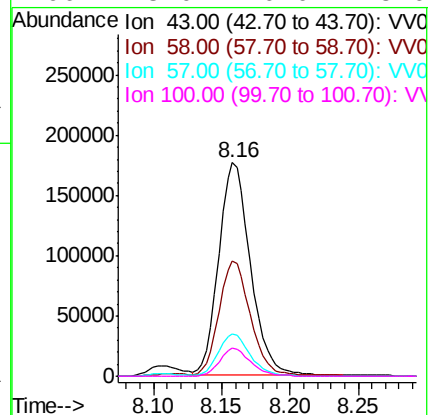
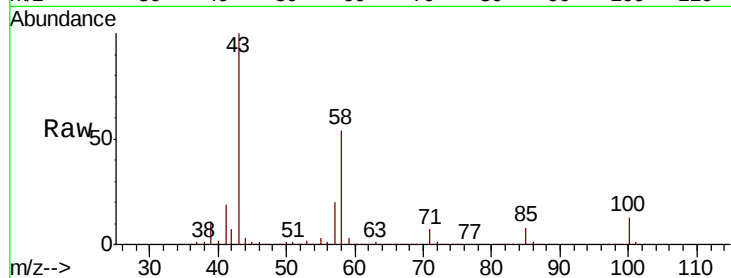




#48  
2-Hexanone  
Concen: 102.352 ug/L  
RT: 8.16 min Scan# 2198  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

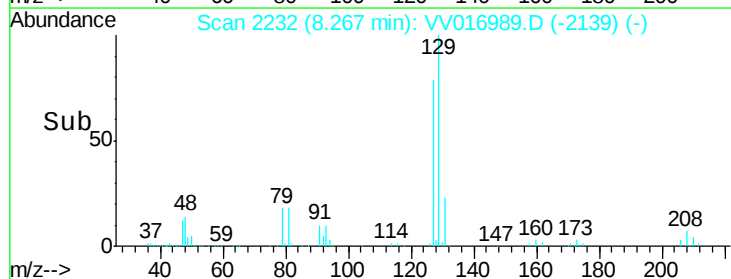
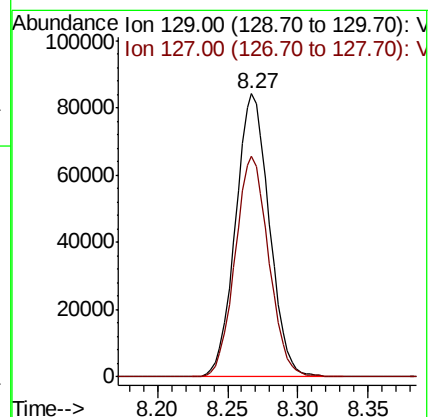
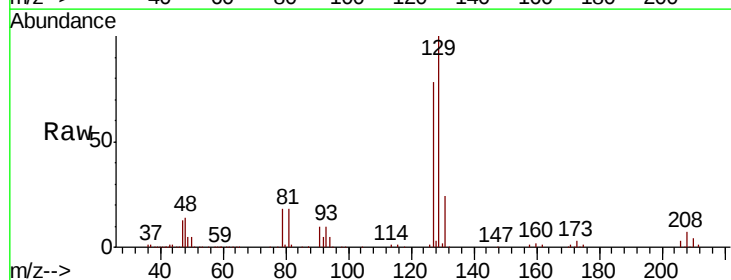
Instrument :  
MSVOA\_V  
ClientSampleId :

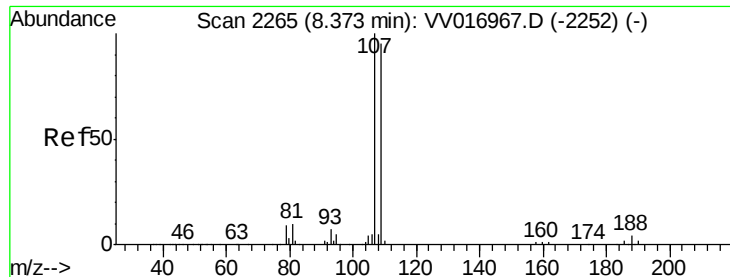
Tot Ion: 43 Resp: 285634  
Ion Ratio Lower Upper  
43 100  
58 53.7 43.1 64.7  
57 19.6 15.3 22.9  
100 13.0 10.0 15.0



#49  
Dibromochloromethane  
Concen: 54.013 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion: 129 Resp: 141521  
Ion Ratio Lower Upper  
129 100  
127 77.8 54.2 100.6

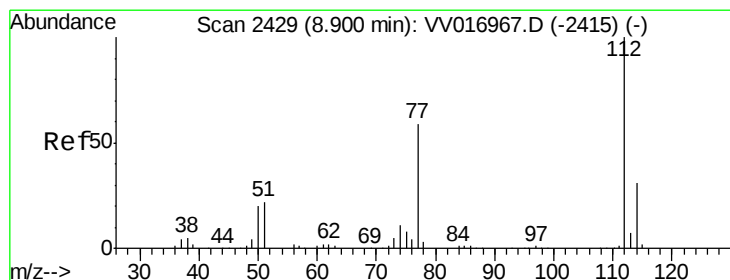
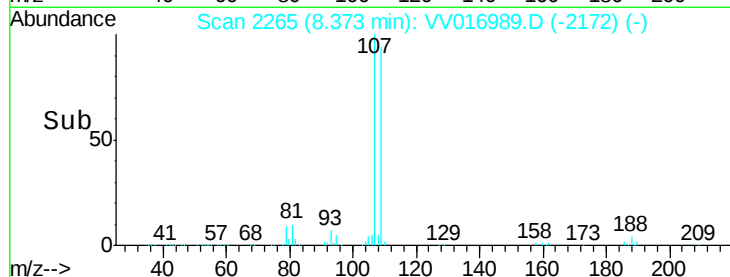
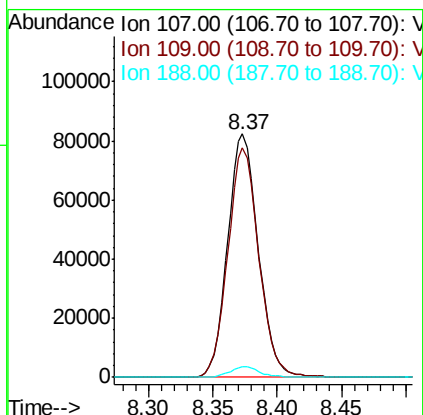
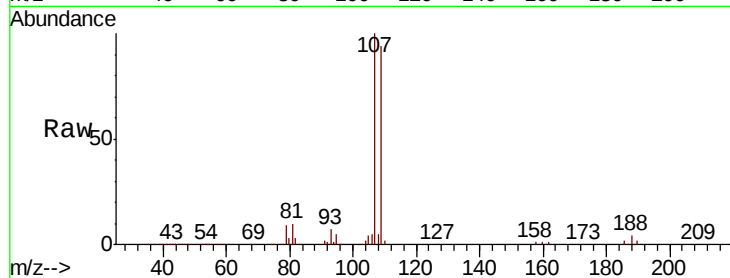




#50  
1,2-Dibromoethane  
Concen: 52.973 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

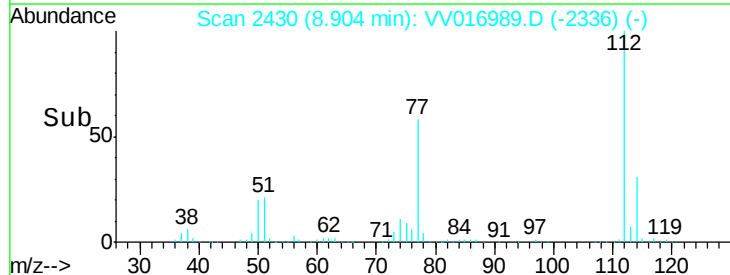
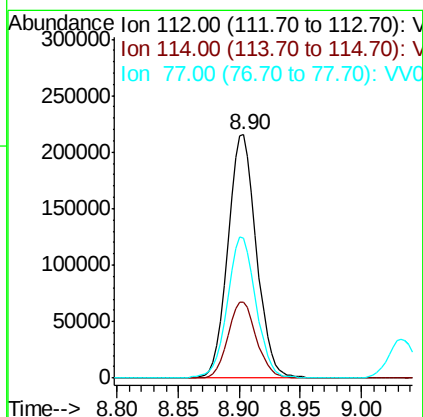
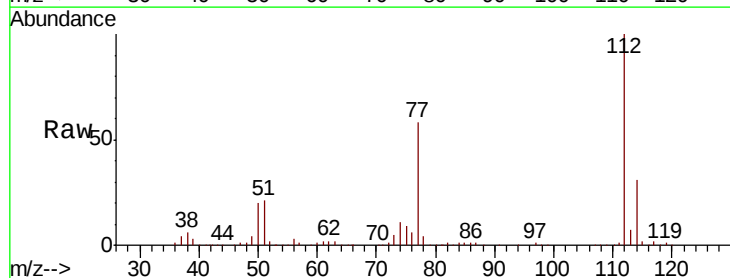
Instrument :  
MSVOA\_V  
ClientSampleId :

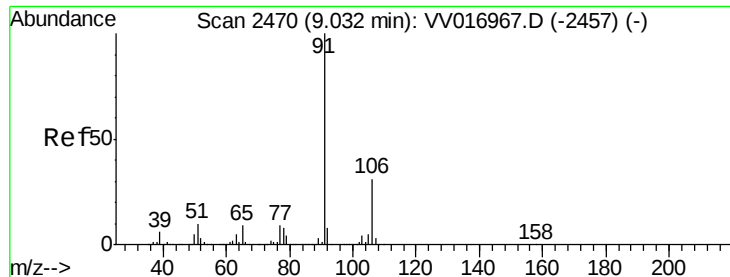
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.4  | 66.4  | 123.2 |
| 188     | 4.4   | 3.1   | 4.7   |



#51  
Chlorobenzene  
Concen: 52.366 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.4  | 22.3  | 41.3  |
| 77      | 57.6  | 47.9  | 71.9  |

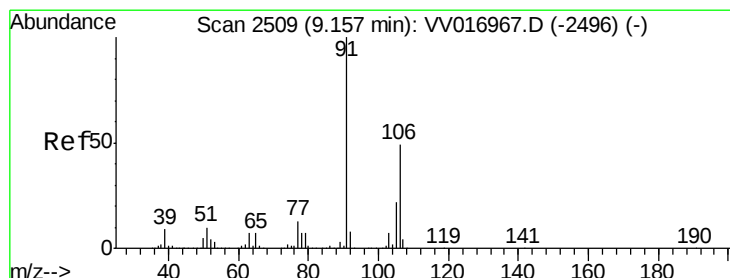
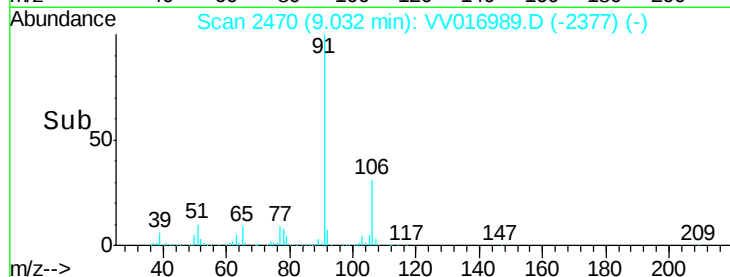
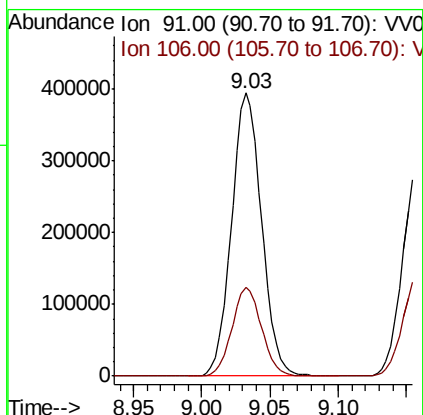
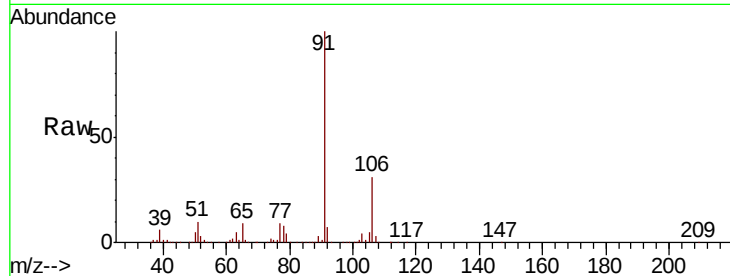




#52  
Ethylbenzene  
Concen: 52.831 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

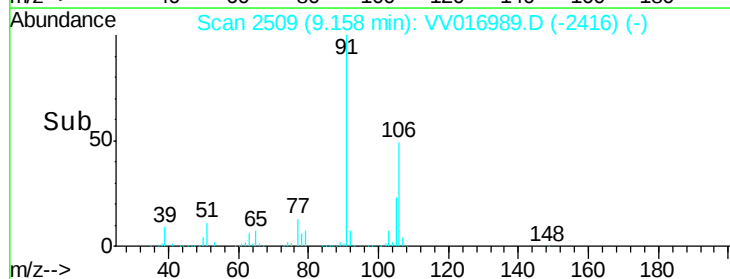
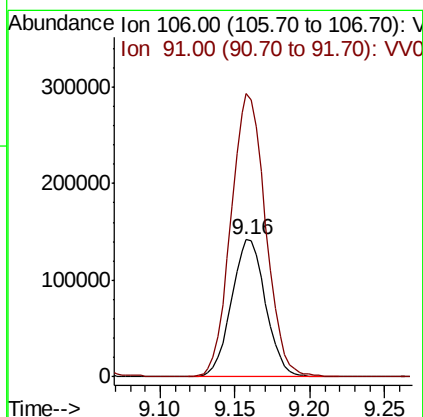
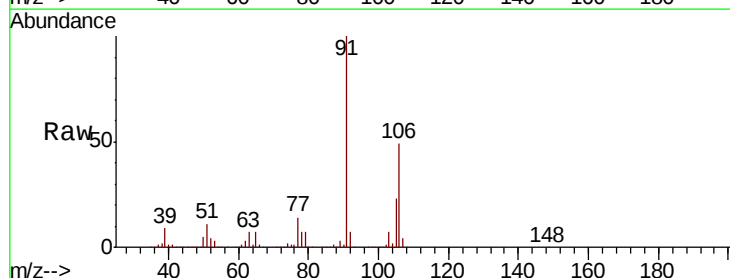
Instrument :  
MSVOA\_V  
ClientSampleId :

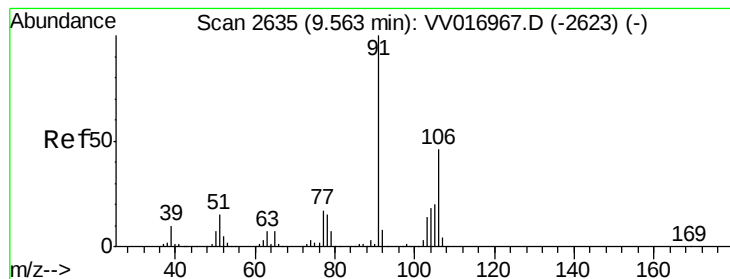
Tot Ion: 91 Resp: 602507  
Ion Ratio Lower Upper  
91 100  
106 31.4 21.1 39.1



#53  
m,p-Xylene  
Concen: 53.086 ug/L  
RT: 9.16 min Scan# 2509  
Delta R.T. 0.00 min  
Lab File: VV016989.D  
Acq: 18 Jun 2020 19:47

Tgt Ion: 106 Resp: 225416  
Ion Ratio Lower Upper  
106 100  
91 206.2 144.6 268.6





#54

o-xylene

Concen: 53.336 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

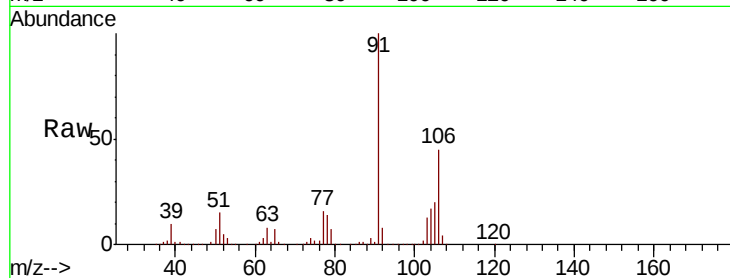
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 223365

Ion Ratio Lower Upper

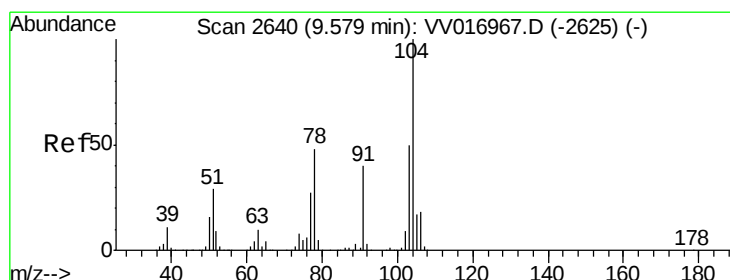
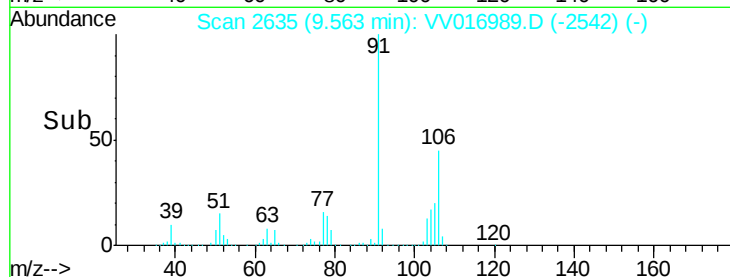
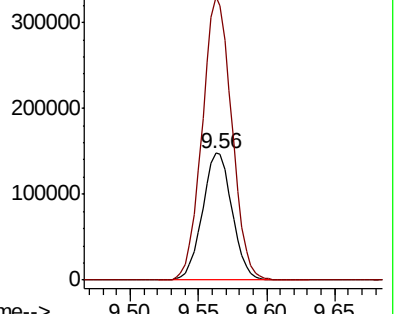
106 100

91 222.6 155.9 289.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 54.708 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV016989.D

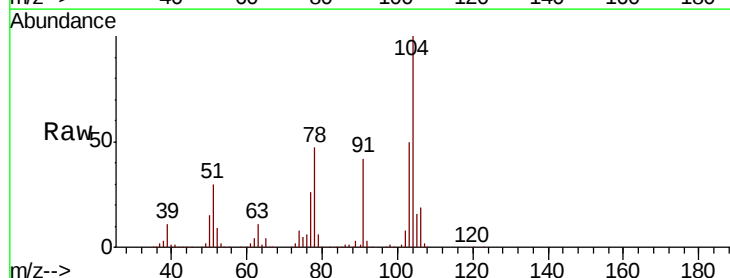
Acq: 18 Jun 2020 19:47

Tgt Ion:104 Resp: 387354

Ion Ratio Lower Upper

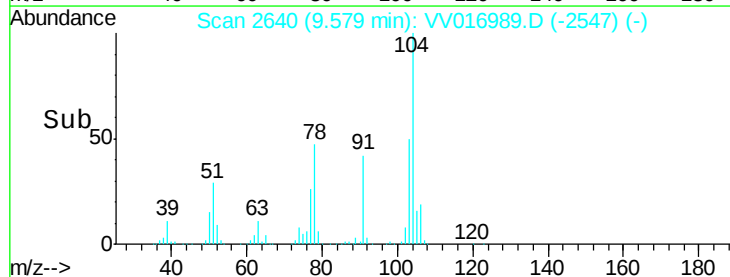
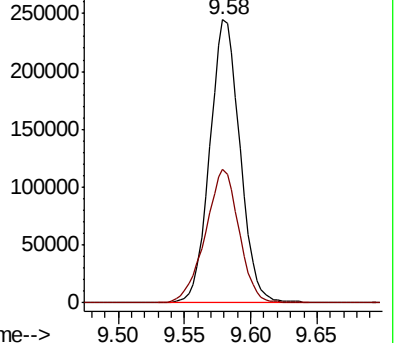
104 100

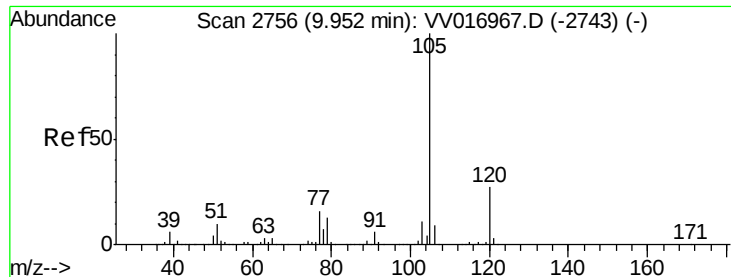
78 47.1 32.6 60.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 53.898 ug/L

RT: 9.95 min Scan# 2756

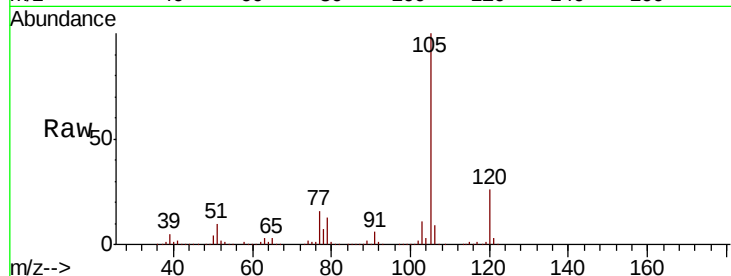
Delta R.T. 0.00 min

Lab File: VV016989.D

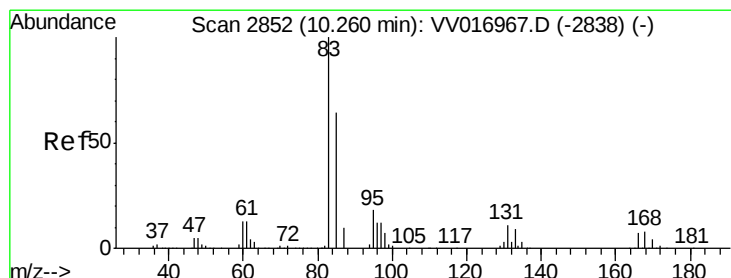
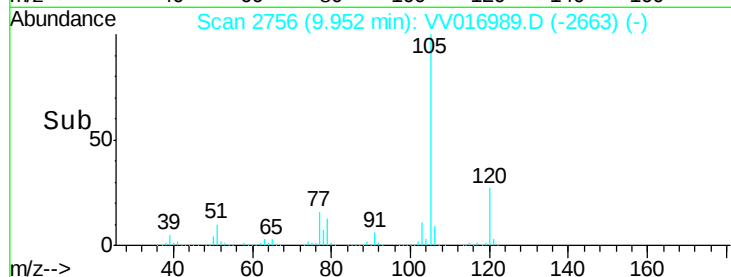
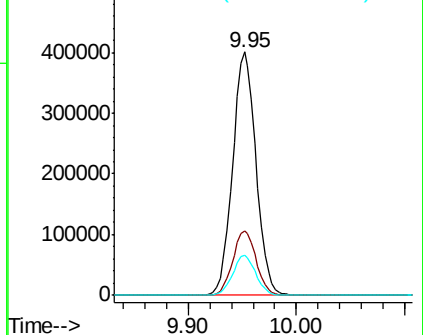
Acq: 18 Jun 2020 19:47

Instrument :  
MSVOA\_V  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 606500 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 26.6  | 21.2  | 31.8   |
| 77       | 16.3  | 13.0  | 19.4   |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V  
Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.034 ug/L

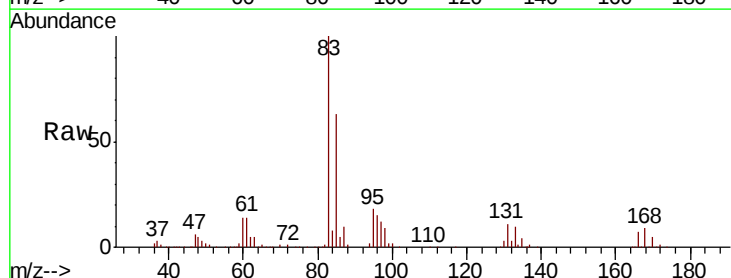
RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

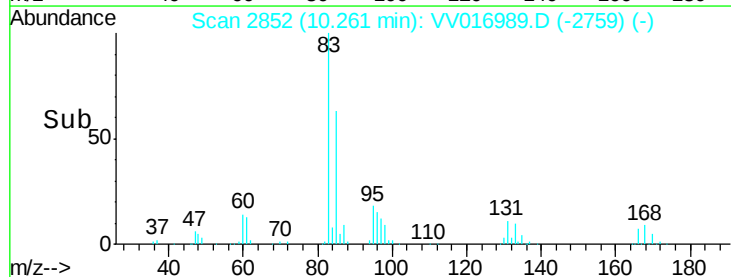
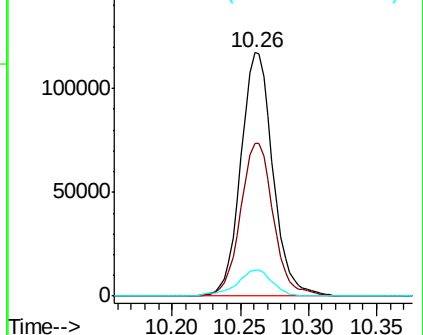
Lab File: VV016989.D

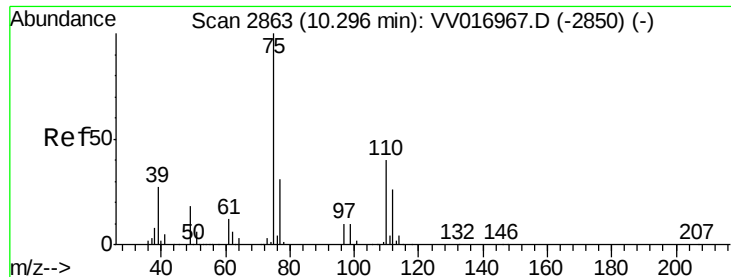
Acq: 18 Jun 2020 19:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 191743 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.0  | 46.8  | 86.8   |
| 131      | 10.9  | 7.9   | 11.9   |



Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 85.00 (84.70 to 85.70): VV0  
Ion 131.00 (130.70 to 131.70): V

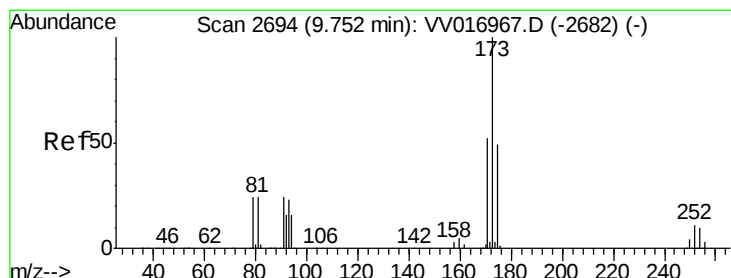
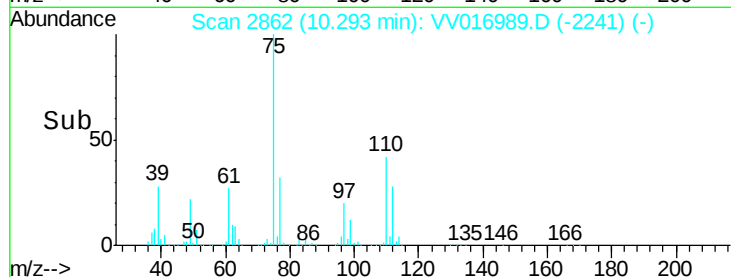
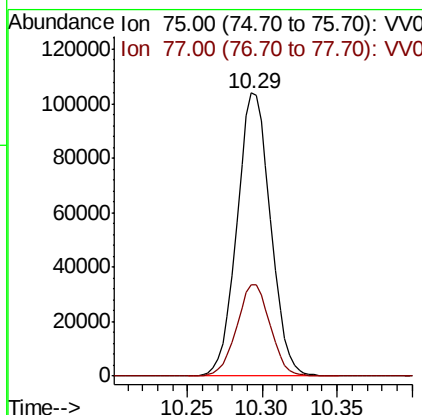
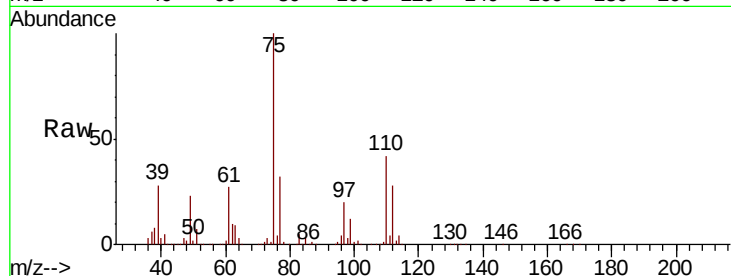




#59  
 1,2,3-Trichloropropane  
 Concen: 51.514 ug/L  
 RT: 10.29 min Scan# 2862  
 Delta R.T. -0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

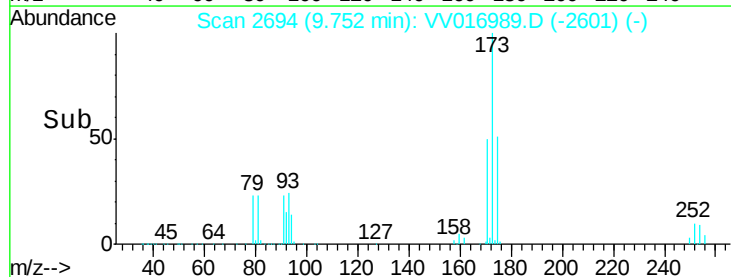
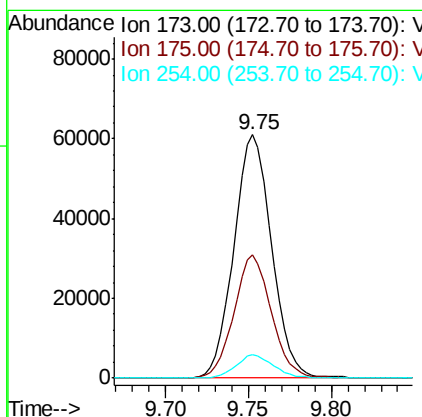
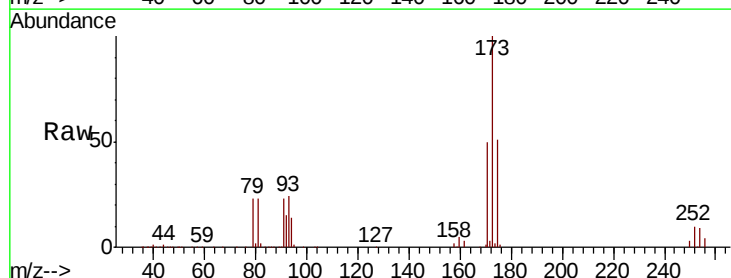
Instrument :  
 MSVOA\_V  
 ClientSampleId :

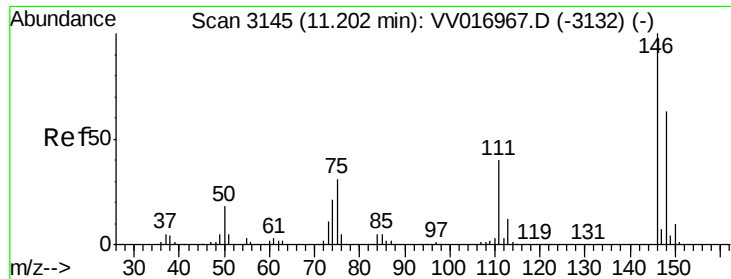
Tot Ion: 75 Resp: 162343  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 26.1 39.1



#61  
 Bromoform  
 Concen: 53.287 ug/L  
 RT: 9.75 min Scan# 2694  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Tgt Ion: 173 Resp: 96289  
 Ion Ratio Lower Upper  
 173 100  
 175 50.2 39.0 58.4  
 254 9.4 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 51.247 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :

MSVOA\_V

ClientSampleId :

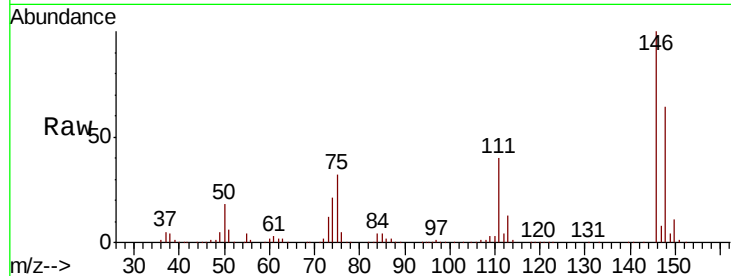
Tot Ion:146 Resp: 285152

Ion Ratio Lower Upper

146 100

111 39.6 28.3 52.7

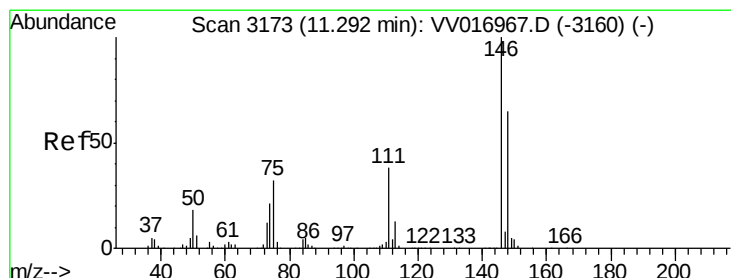
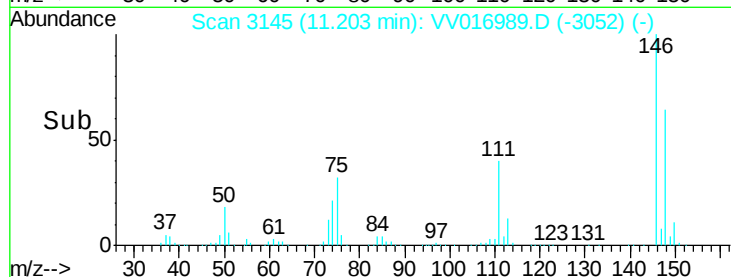
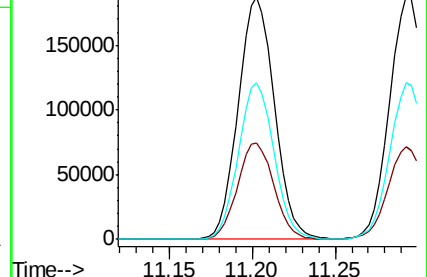
148 64.5 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.542 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

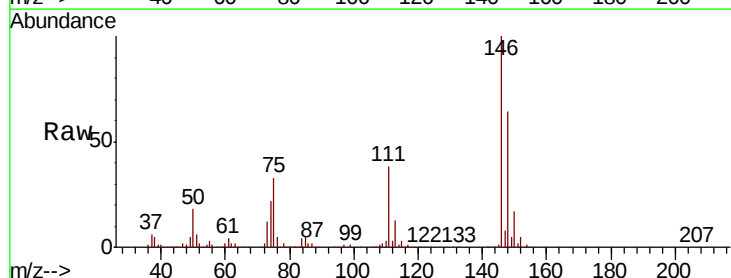
Tgt Ion:146 Resp: 286139

Ion Ratio Lower Upper

146 100

111 38.1 26.7 49.7

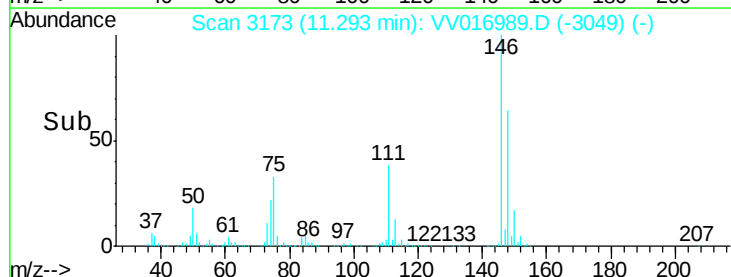
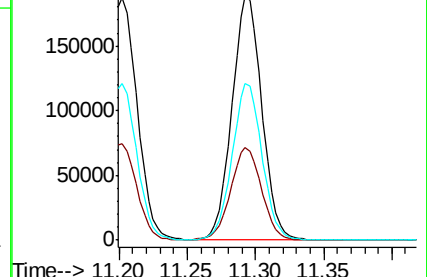
148 64.3 43.5 80.9

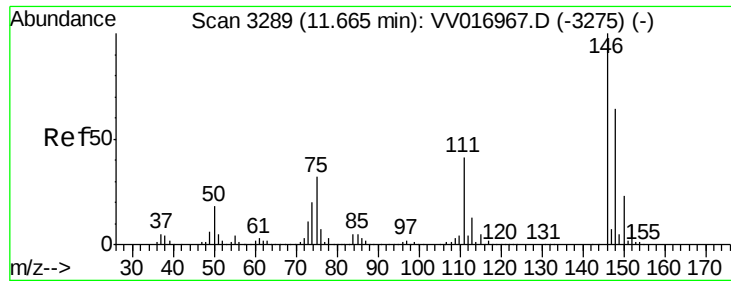


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.865 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :

MSVOA\_V

ClientSampleId :

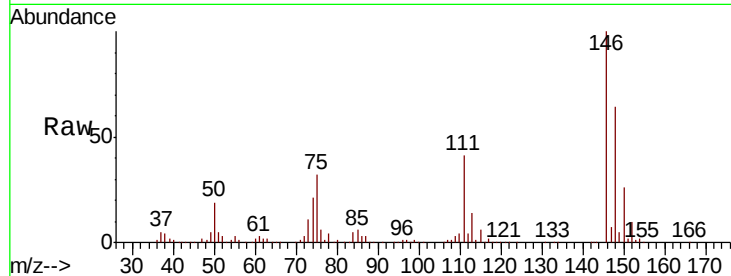
Tot Ion:146 Resp: 289208

Ion Ratio Lower Upper

146 100

111 41.3 33.7 50.5

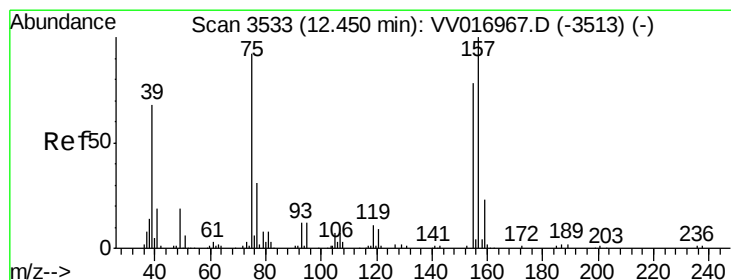
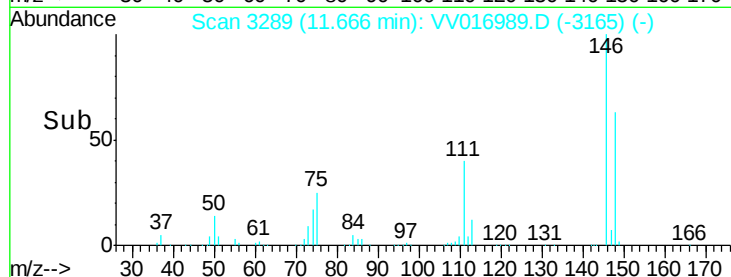
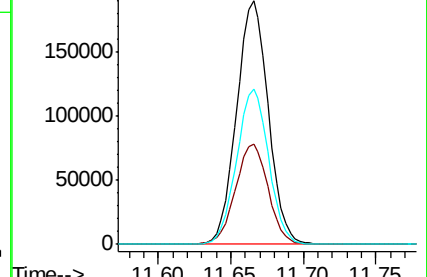
148 63.8 50.7 76.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 48.391 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

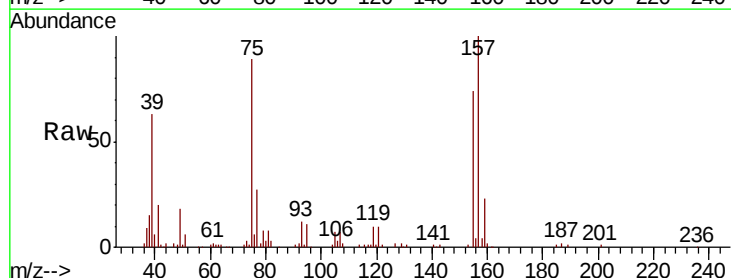
Tgt Ion: 75 Resp: 42429

Ion Ratio Lower Upper

75 100

155 83.3 69.8 104.6

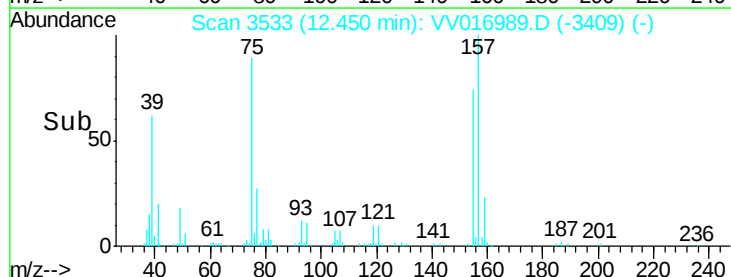
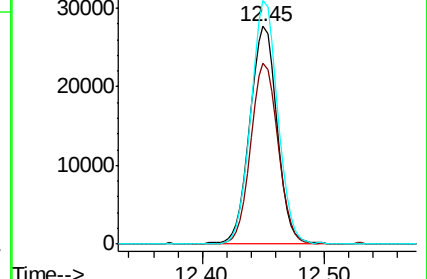
157 112.0 83.4 125.2

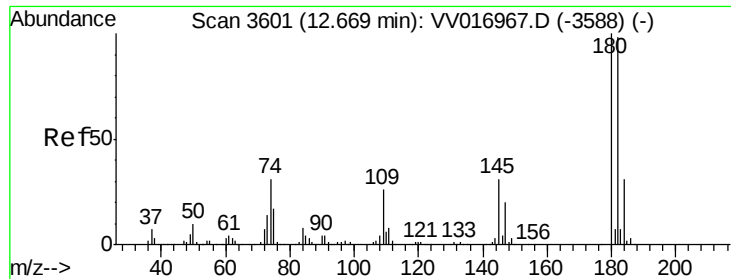


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

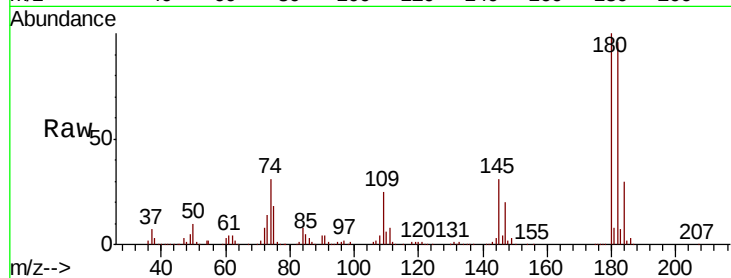




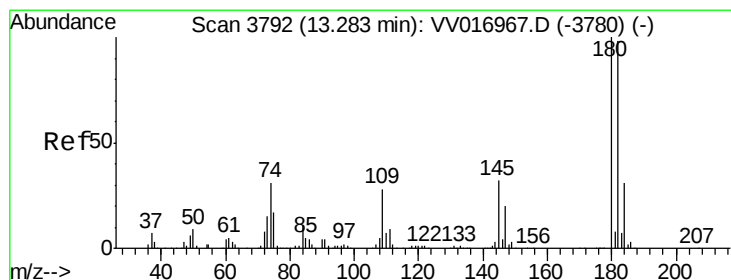
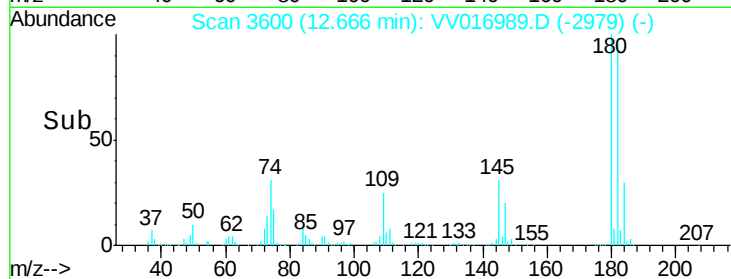
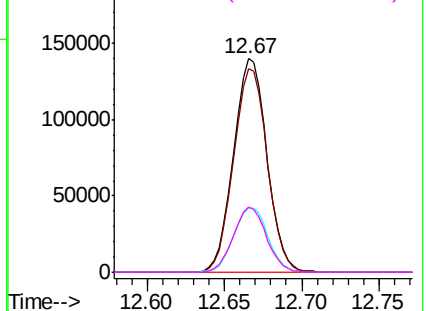
#67  
 1,3,5-Trichlorobenzene  
 Concen: 50.555 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 209765     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.1  | 75.0 112.6 |
| 184         | 30.9  | 24.5 36.7  |
| 145         | 30.2  | 24.4 36.6  |

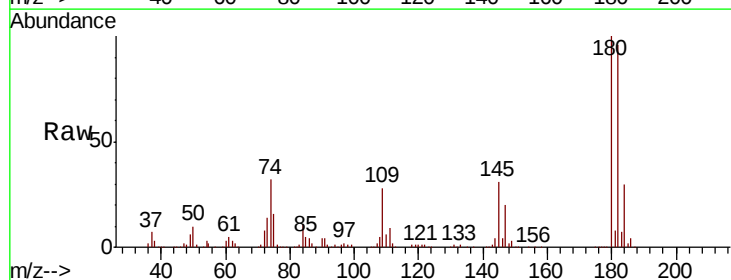


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

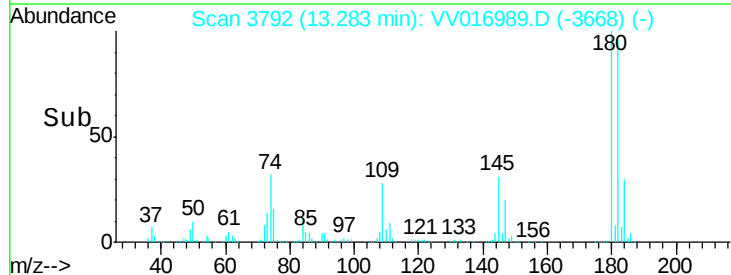
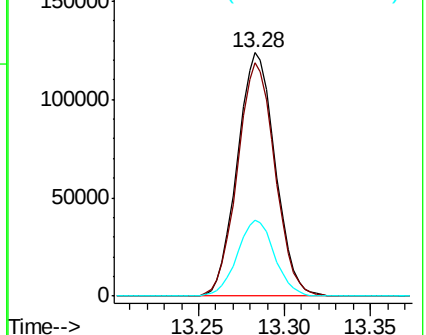


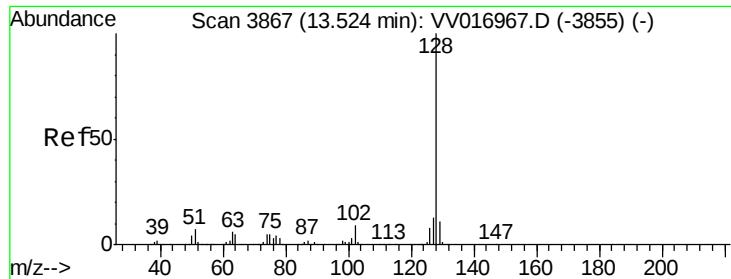
#68  
 1,2,4-trichlorobenzene  
 Concen: 49.686 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV016989.D  
 Acq: 18 Jun 2020 19:47

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 189095     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.0  | 76.9 115.3 |
| 145         | 30.6  | 25.2 37.8  |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 51.539 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

Instrument :

MSVOA\_V

ClientSampleId :

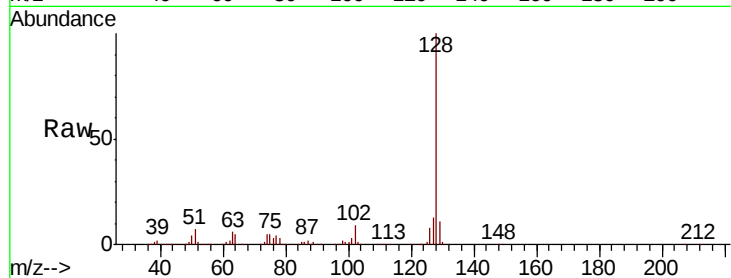
Tot Ion:128 Resp: 564223

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

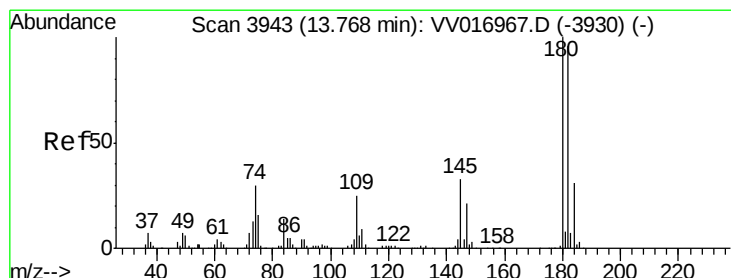
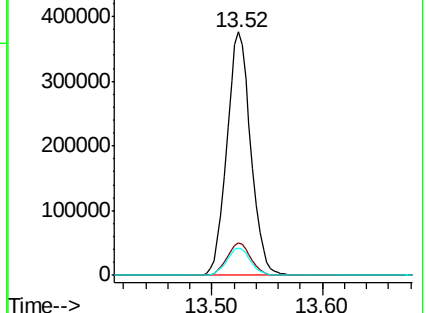
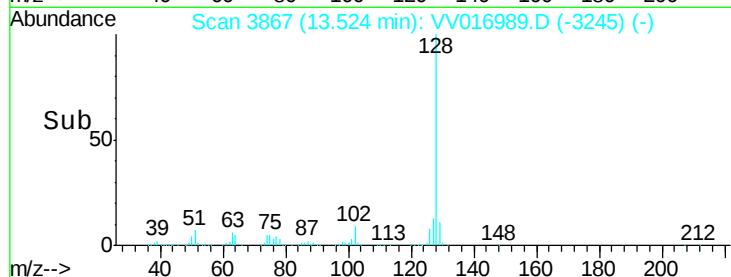
129 11.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.824 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV016989.D

Acq: 18 Jun 2020 19:47

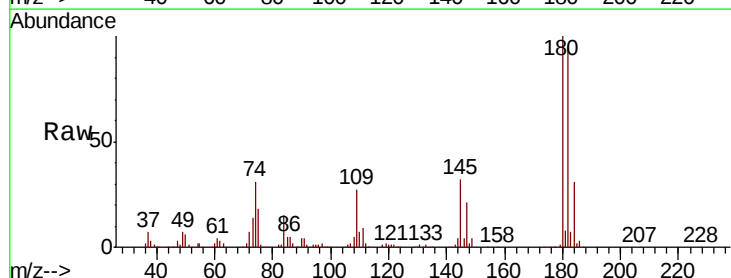
Tgt Ion:180 Resp: 189261

Ion Ratio Lower Upper

180 100

182 95.9 76.5 114.7

145 33.0 26.1 39.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

