

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102920\  
 Data File : VV019161.D  
 Acq On : 29 Oct 2020 21:59  
 Operator : SY/MD  
 Sample : MDL07  
 Misc : 5.0uL/5.0ml/100uL/5.0ml/MSVOA-V/MEOH  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 30 06:28:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 30 05:31:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 228995   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 223519   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 113820   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 85367    | 46.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.82%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 68757    | 48.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.28%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 130251   | 37.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.24%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 112278   | 100.73   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.73% |
| 24) Chloroform-d               | 4.38    | 84    | 163784   | 48.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.76%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 120988   | 51.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.58% |
| 32) Benzene-d6                 | 5.07    | 84    | 318087   | 50.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.34% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 95370    | 50.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.90% |
| 41) Toluene-d8                 | 7.34    | 98    | 293034   | 48.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.22%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 51506    | 47.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.16%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 81673    | 99.75    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.75%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 123830   | 48.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.16%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 122483   | 51.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.44% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 4699  | 2.337 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 4454  | 2.439 ug/L   | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 5212  | 2.788 ug/L # | 71     |
| 6) Bromomethane                | 1.53 | 94  | 2986  | 2.385 ug/L   | 88     |
| 8) Chloroethane                | 1.60 | 64  | 3011  | 2.590 ug/L   | 91     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 7102  | 2.279 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 4635  | 3.091 ug/L # | 76     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 4434  | 3.019 ug/L # | 1      |
| 13) Acetone                    | 2.20 | 43  | 3956  | 3.820 ug/L   | 95     |
| 14) Carbon disulfide           | 2.31 | 76  | 11042 | 2.366 ug/L   | 98     |
| 15) Methyl Acetate             | 2.46 | 43  | 4024  | 2.411 ug/L # | 89     |
| 16) Methylene chloride         | 2.53 | 84  | 4591  | 2.753 ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 4013  | 2.544 ug/L   | 86     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 12031 | 2.278 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 6970  | 2.372 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 3794  | 2.192 ug/L   | 87     |
| 23) Bromochloromethane         | 4.29 | 128 | 2159  | 2.324 ug/L   | 88     |

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 Misc : 5.0µl/5.0ml/100µl/5.0ml/MSVOA-V/MEOH  
 ALS Vial : 19 Sample Multiplier: 1

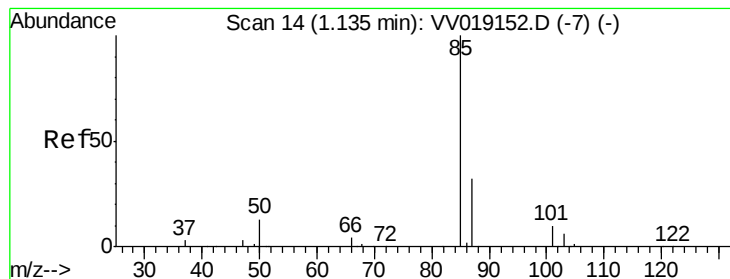
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 30 06:28:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 30 05:31:22 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 25) Chloroform                  | 4.40  | 83   | 8800     | 2.771 | ug/L   | 96       |
| 27) 1,2-Dichloroethane          | 5.17  | 62   | 6703     | 2.479 | ug/L   | 98       |
| 29) Cyclohexane                 | 4.70  | 56   | 5177     | 2.075 | ug/L # | 87       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 7023     | 2.319 | ug/L   | 98       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 6287     | 2.341 | ug/L   | 98       |
| 33) Benzene                     | 5.13  | 78   | 15520    | 2.408 | ug/L   | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 4192     | 2.374 | ug/L   | 91       |
| 35) Methylcyclohexane           | 6.15  | 83   | 4243     | 1.780 | ug/L # | 81       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 3764     | 2.352 | ug/L # | 89       |
| 38) Bromodichloromethane        | 6.54  | 83   | 5516     | 2.317 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene     | 7.06  | 75   | 6573     | 2.486 | ug/L   | 89       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 9463     | 4.286 | ug/L   | 97       |
| 42) Toluene                     | 7.41  | 91   | 20390    | 2.886 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.68  | 75   | 5264     | 1.914 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 3888     | 2.422 | ug/L   | 94       |
| 46) Tetrachloroethene           | 8.00  | 164  | 3503     | 2.324 | ug/L   | 95       |
| 48) 2-Hexanone                  | 8.17  | 43   | 9587     | 5.463 | ug/L # | 86       |
| 49) Dibromochloromethane        | 8.27  | 129  | 4227     | 2.175 | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.38  | 107  | 3900     | 2.277 | ug/L # | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 11080    | 2.392 | ug/L   | 97       |
| 52) Ethylbenzene                | 9.04  | 91   | 16959    | 2.178 | ug/L   | 98       |
| 53) m,p-Xylene                  | 9.16  | 106  | 6330     | 2.153 | ug/L   | 97       |
| 54) o-xylene                    | 9.57  | 106  | 5937     | 2.103 | ug/L   | 93       |
| 55) Styrene                     | 9.59  | 104  | 9296     | 1.858 | ug/L   | 97       |
| 56) Isopropylbenzene            | 9.95  | 105  | 14907    | 1.965 | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 5847     | 2.392 | ug/L # | 96       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 4933     | 2.358 | ug/L   | 97       |
| 61) Bromoform                   | 9.76  | 173  | 3000     | 2.137 | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 11.21 | 146  | 8222     | 2.290 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 9365     | 2.510 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 9145     | 2.571 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 1314     | 2.159 | ug/L   | 87       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 5996     | 2.269 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 5204     | 2.102 | ug/L   | 96       |
| 69) Naphthalene                 | 13.53 | 128  | 11666    | 1.682 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 5089     | 2.100 | ug/L   | 99       |

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





#2

Dichlorodifluoromethane

Concen: 2.337 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

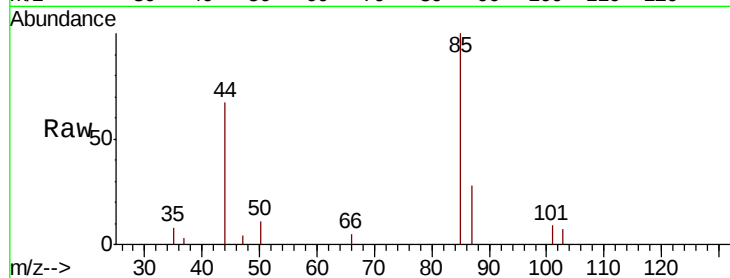
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 4699

Ion Ratio Lower Upper

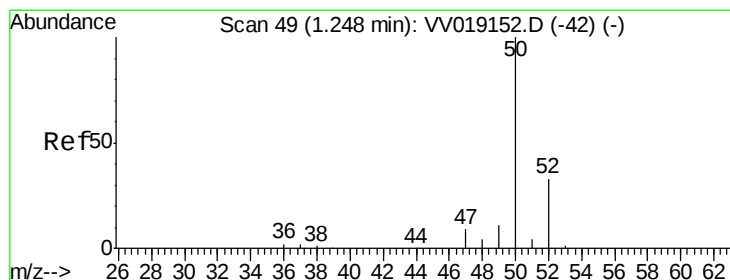
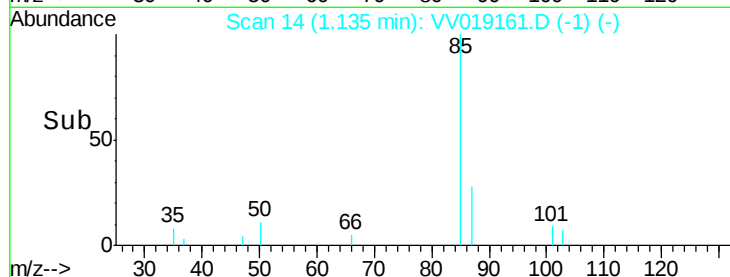
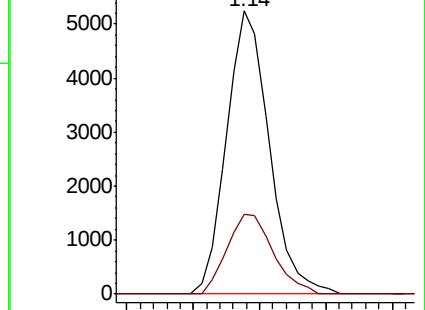
85 100

87 30.4 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV019152.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV019152.D (-7) (-)



#3

Chloromethane

Concen: 2.439 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019161.D

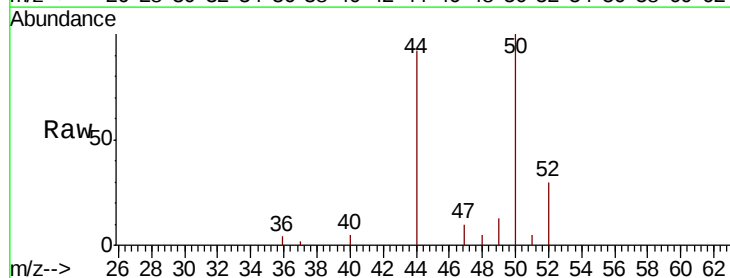
Acq: 29 Oct 2020 21:59

Tgt Ion: 50 Resp: 4454

Ion Ratio Lower Upper

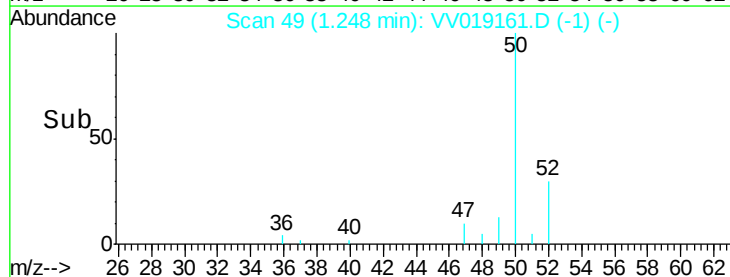
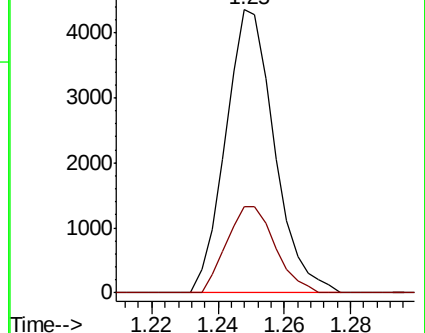
50 100

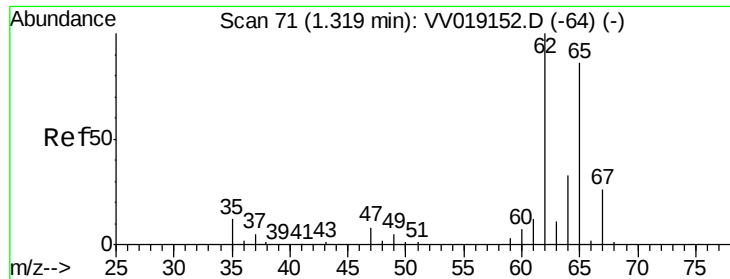
52 30.4 22.1 41.1



Abundance Ion 50.00 (49.70 to 50.70): VV019152.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019152.D (-42) (-)





#5

Vinyl chloride

Concen: 2.788 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

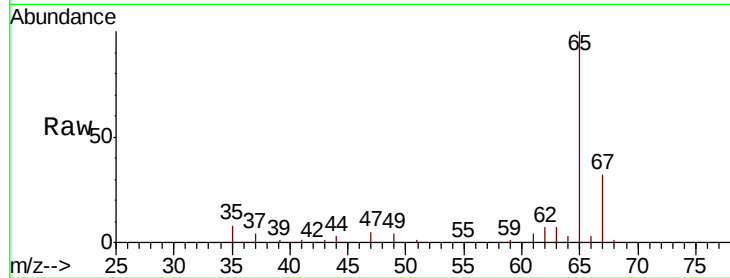
ClientSampled :

Tot Ion: 62 Resp: 5212

Ion Ratio Lower Upper

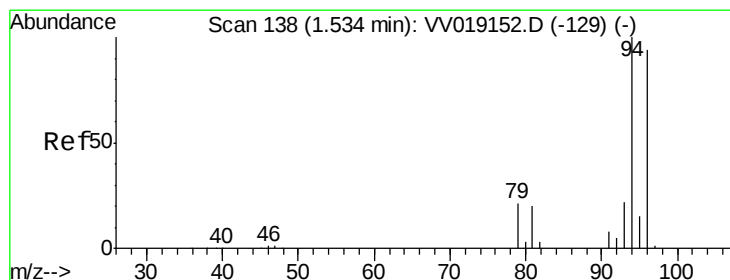
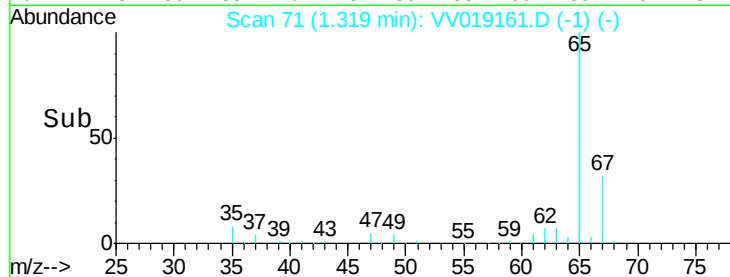
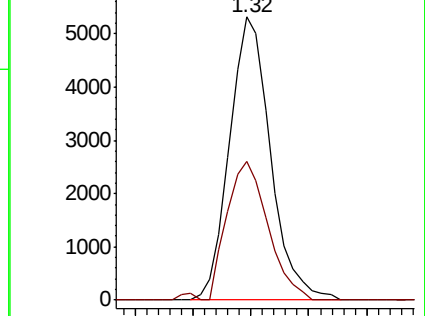
62 100

64 48.9 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.385 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019161.D

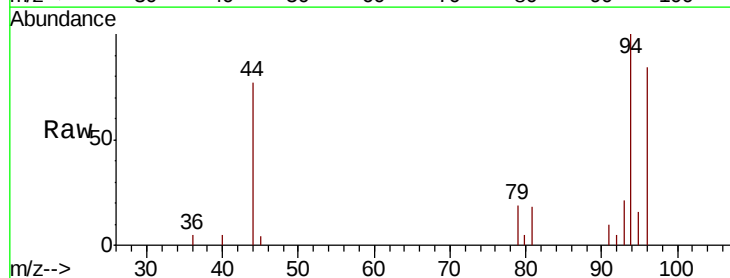
Acq: 29 Oct 2020 21:59

Tgt Ion: 94 Resp: 2986

Ion Ratio Lower Upper

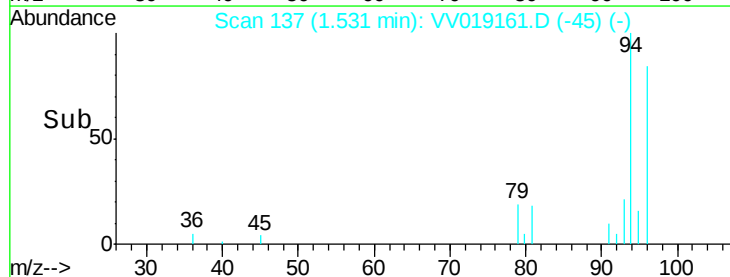
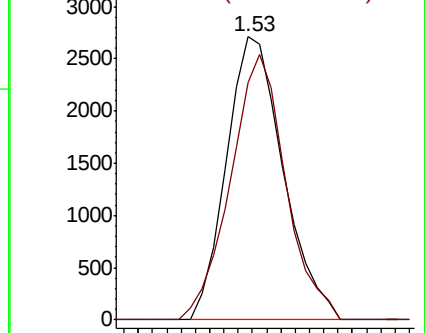
94 100

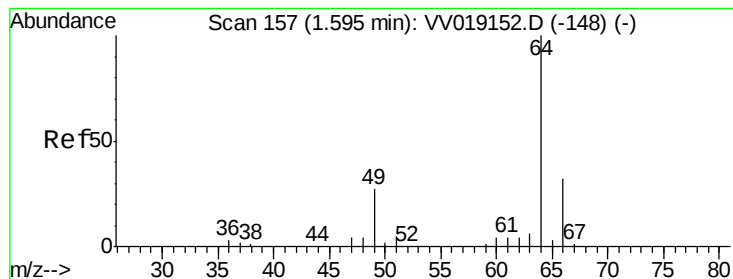
96 83.8 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.590 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

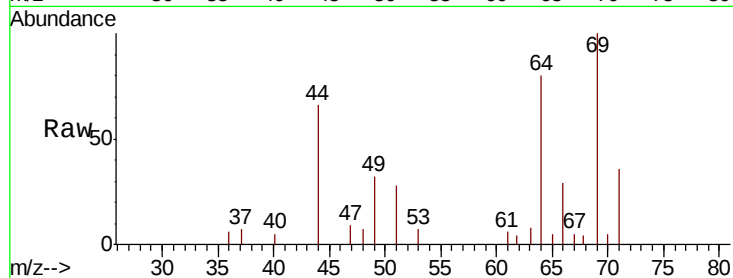
ClientSampled :

Tot Ion: 64 Resp: 3011

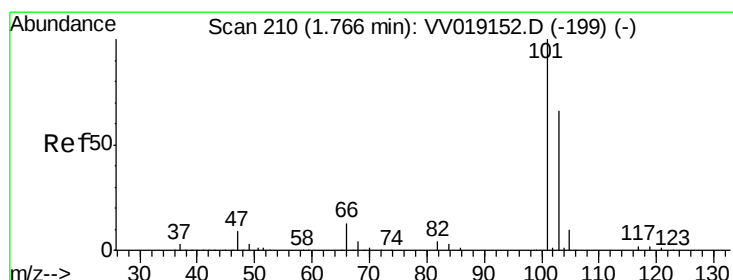
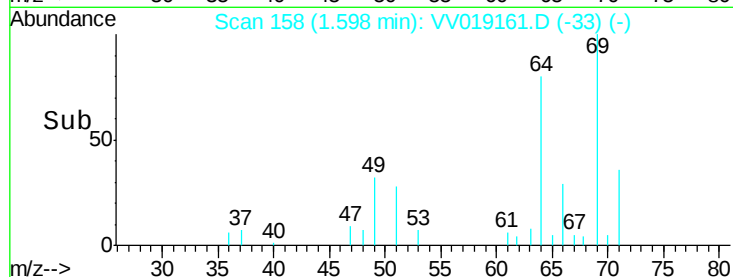
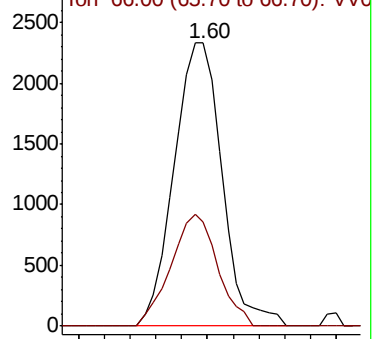
Ion Ratio Lower Upper

64 100

66 36.6 22.0 40.8



Abundance Ion 64.00 (63.70 to 64.70): VV019161.D (-33) (-)



#9

Trichlorofluoromethane

Concen: 2.279 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019161.D

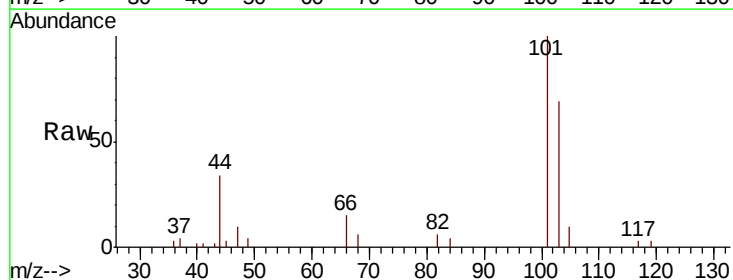
Acq: 29 Oct 2020 21:59

Tgt Ion: 101 Resp: 7102

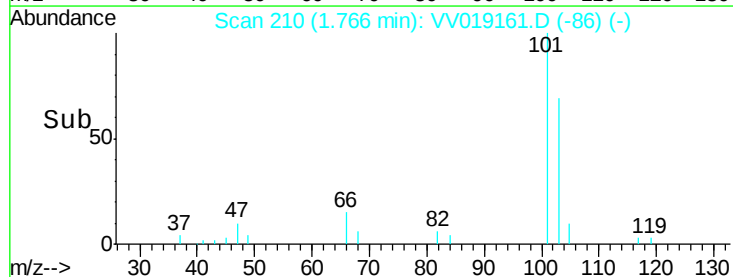
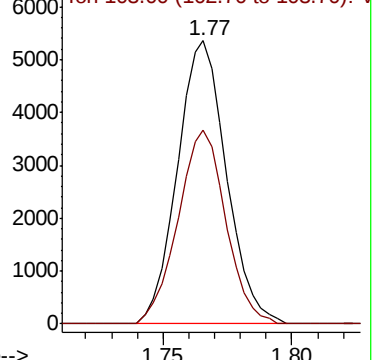
Ion Ratio Lower Upper

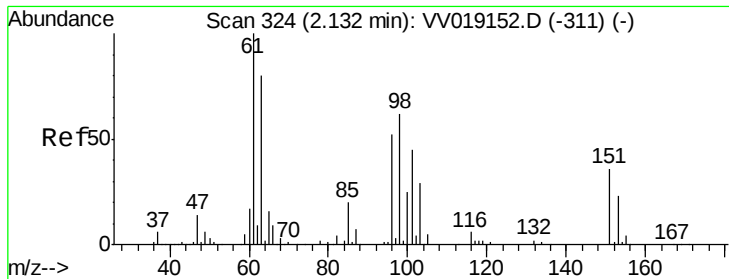
101 100

103 66.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV019161.D (-86) (-)





#10

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

Concen: 3.091 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

ClientSampleId :

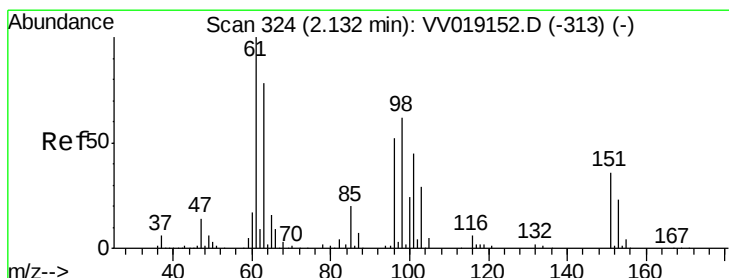
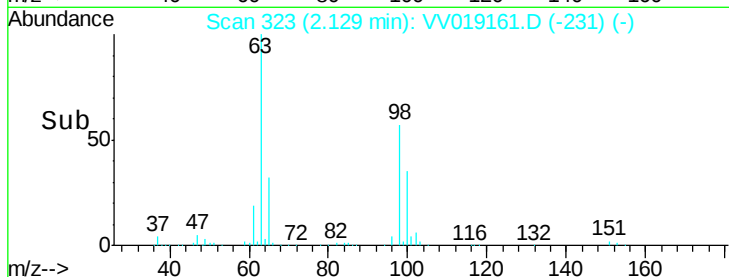
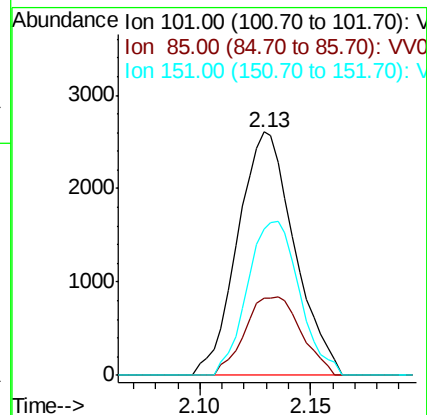
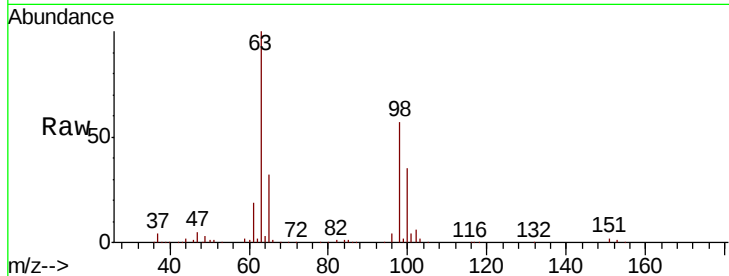
Tot Ion:101 Resp: 4635

Ion Ratio Lower Upper

101 100

85 31.9 36.1 54.1#

151 58.0 65.0 97.4#



#12

1,1-Dichloroethene

Concen: 3.019 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

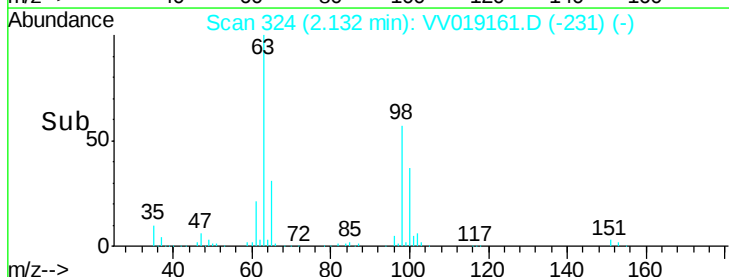
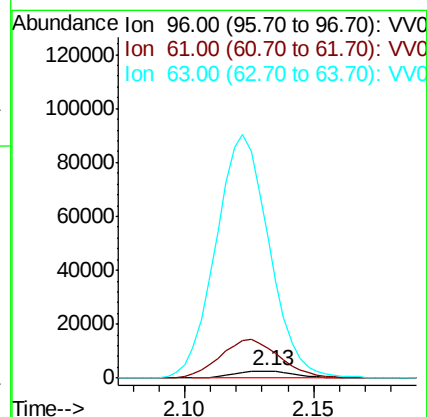
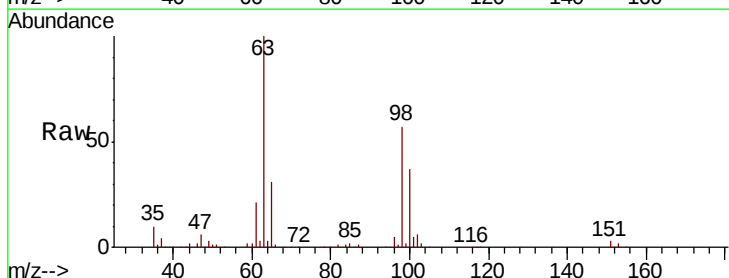
Tgt Ion: 96 Resp: 4434

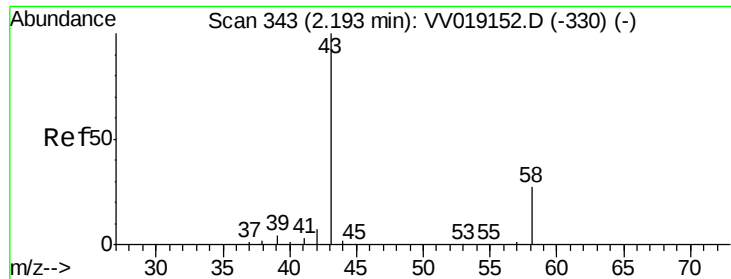
Ion Ratio Lower Upper

96 100

61 417.1 132.6 246.2#

63 1941.2 108.4 201.4#





#13

Acetone

Concen: 3.820 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

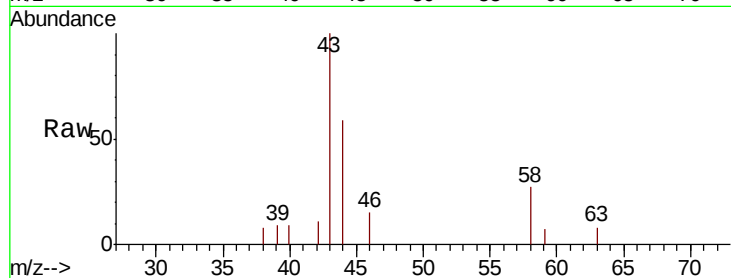
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 3956

Ion Ratio Lower Upper

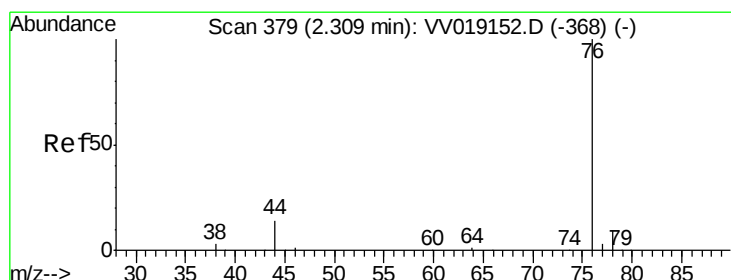
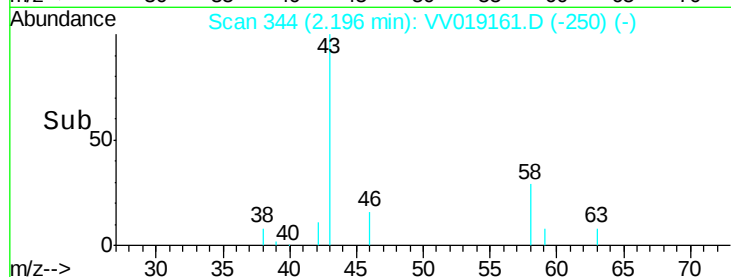
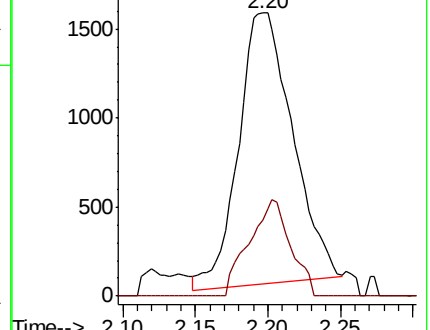
43 100

58 27.2 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV019161.D (-250) (-)

Ion 58.00 (57.70 to 58.70): VV019161.D (-250) (-)



#14

Carbon disulfide

Concen: 2.366 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019161.D

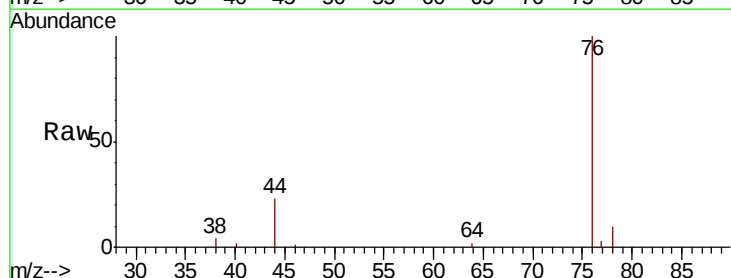
Acq: 29 Oct 2020 21:59

Tgt Ion: 76 Resp: 11042

Ion Ratio Lower Upper

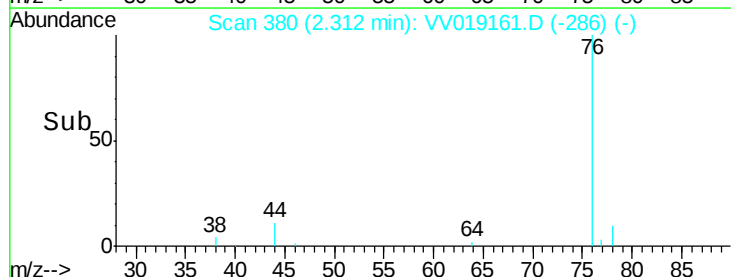
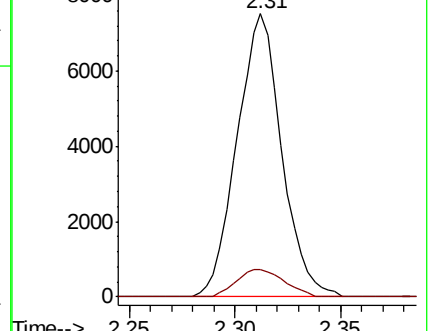
76 100

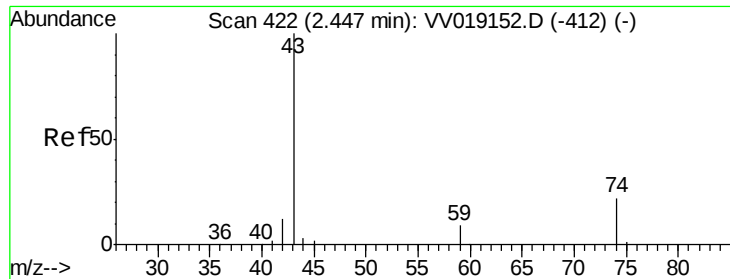
78 9.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019161.D (-286) (-)

Ion 78.00 (77.70 to 78.70): VV019161.D (-286) (-)

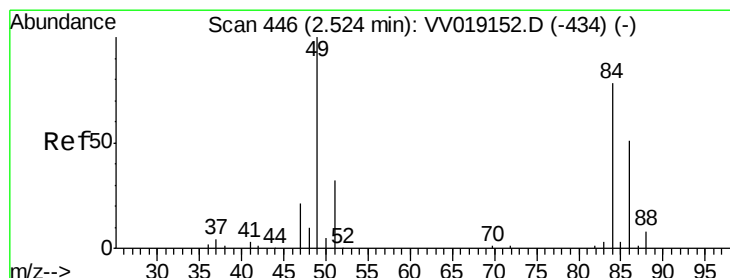
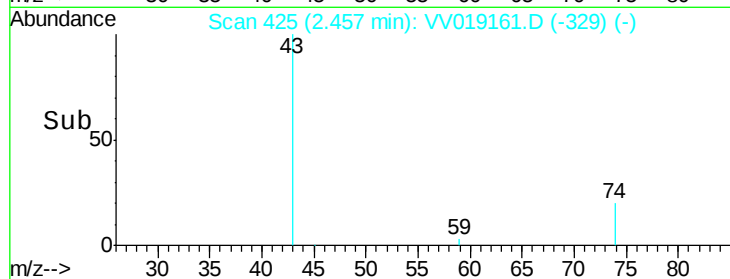
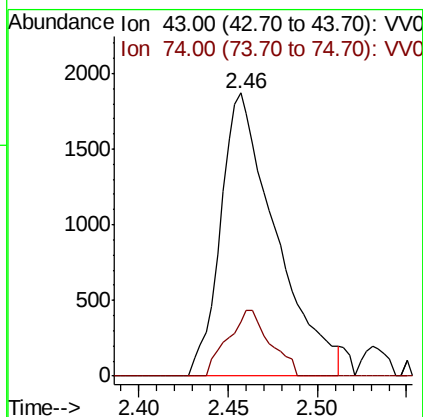
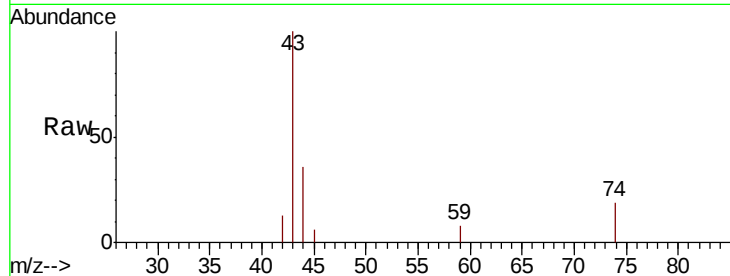




#15  
Methvl Acetate  
Concen: 2.411 ug/L  
RT: 2.46 min Scan# 425  
Delta R.T. 0.01 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

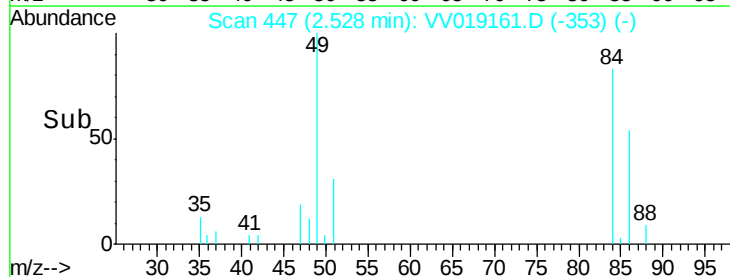
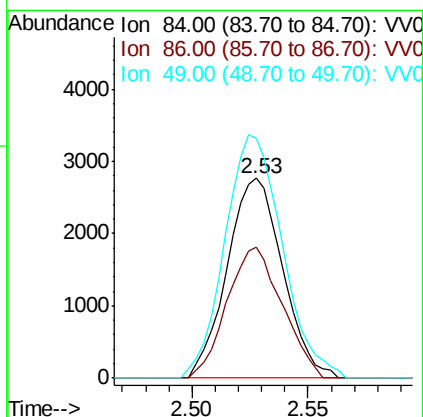
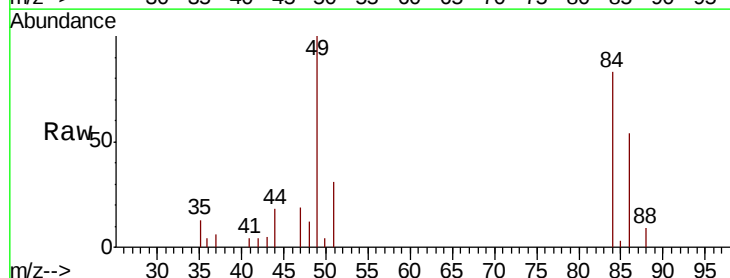
Instrument :  
MSVOA\_V  
ClientSampleId :

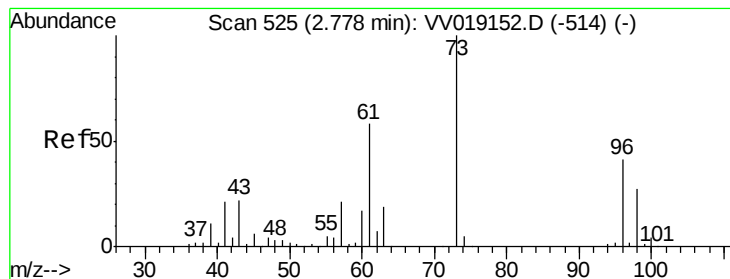
Tot Ion: 43 Resp: 4024  
Ion Ratio Lower Upper  
43 100  
74 17.7 18.4 27.6#



#16  
Methylene chloride  
Concen: 2.753 ug/L  
RT: 2.53 min Scan# 447  
Delta R.T. 0.00 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

Tgt Ion: 84 Resp: 4591  
Ion Ratio Lower Upper  
84 100  
86 65.4 46.0 85.4  
49 120.4 87.8 163.2





#17

trans-1,2-Dichloroethene

Concen: 2.544 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.01 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :  
MSVOA\_V  
ClientSampleId :

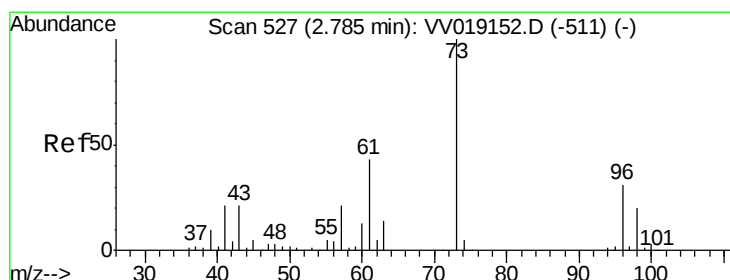
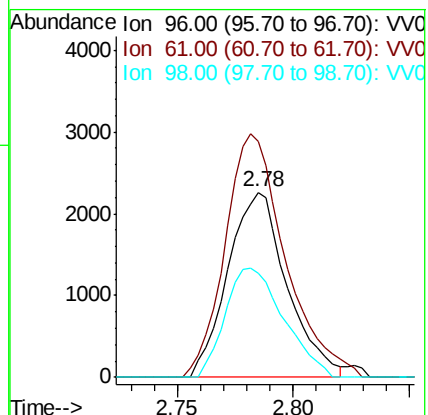
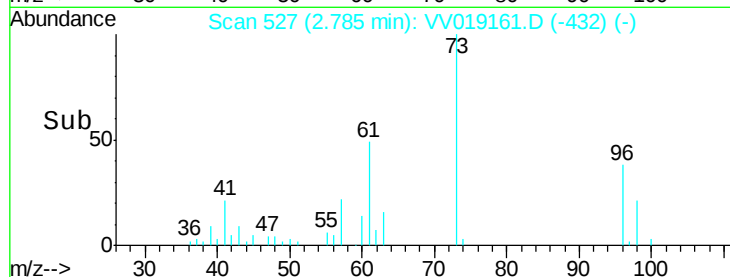
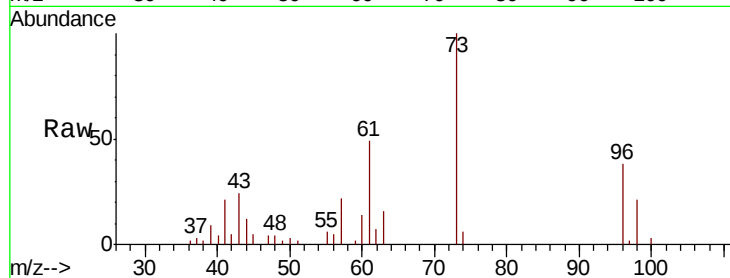
Tot Ion: 96 Resp: 4013

Ion Ratio Lower Upper

96 100

61 127.7 102.4 190.2

98 55.9 45.9 85.3



#18

Methyl tert-butyl Ether

Concen: 2.278 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

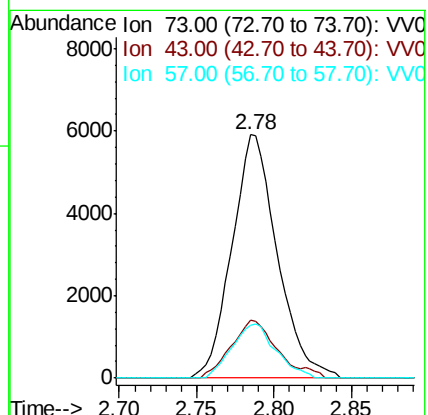
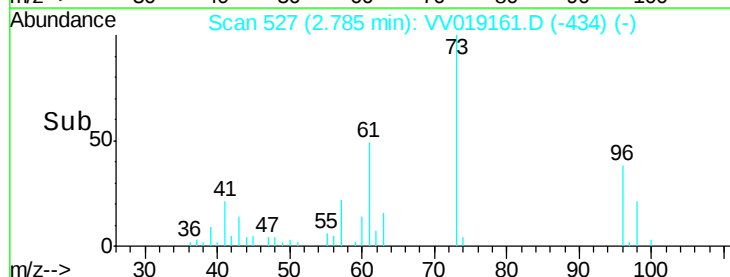
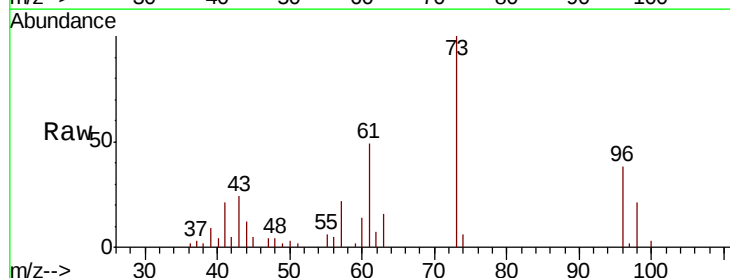
Tgt Ion: 73 Resp: 12031

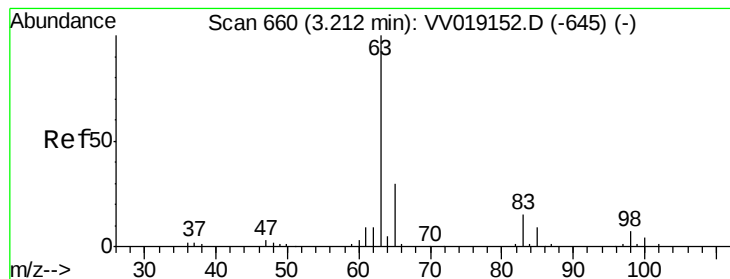
Ion Ratio Lower Upper

73 100

43 23.1 17.9 26.9

57 21.5 17.1 25.7





#19

1,1-Dichloroethane

Concen: 2.372 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

ClientSampleId :

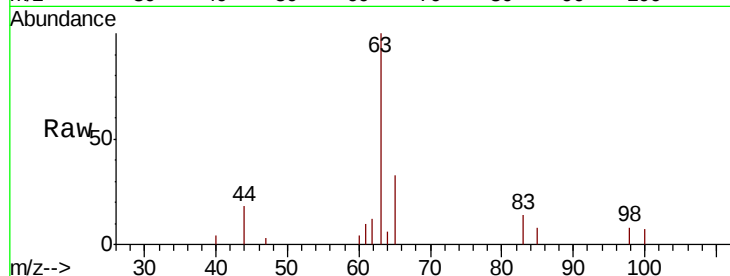
Tot Ion: 63 Resp: 6970

Ion Ratio Lower Upper

63 100

65 32.7 22.0 40.8

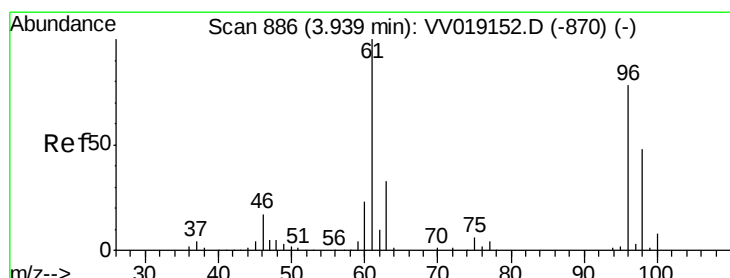
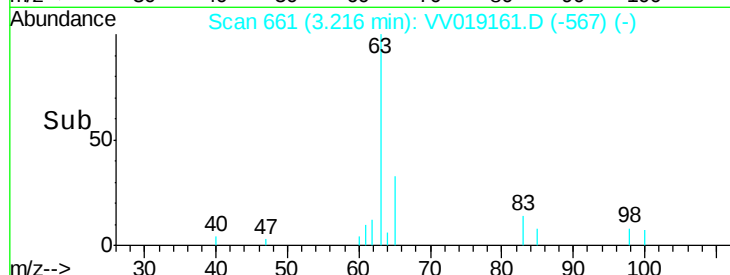
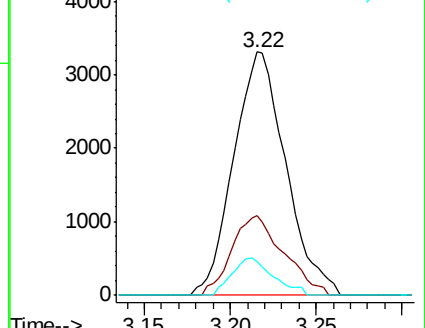
83 13.9 9.6 17.8



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: 2.192 ug/L

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

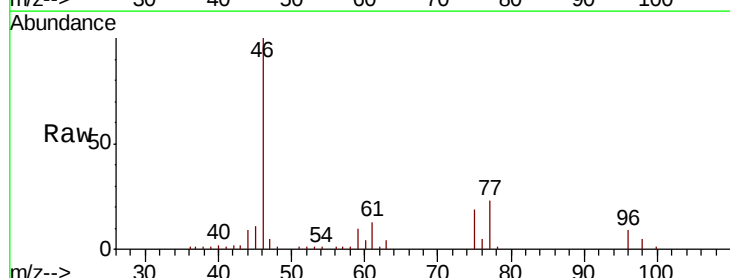
Tgt Ion: 96 Resp: 3794

Ion Ratio Lower Upper

96 100

61 144.4 90.7 168.5

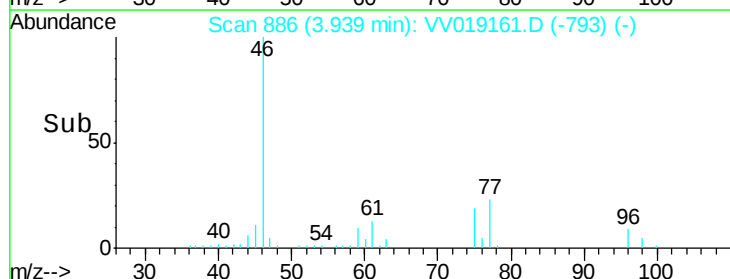
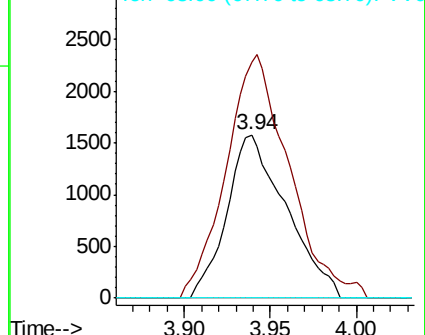
68 0.0 0.0 0.0

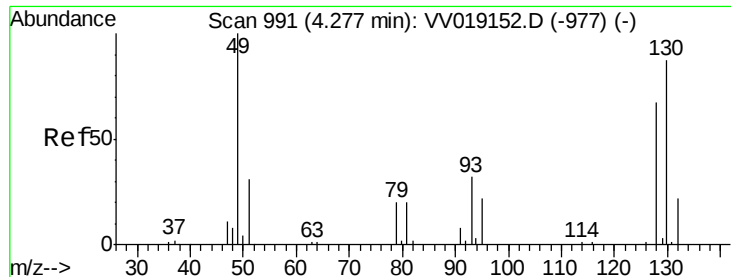


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

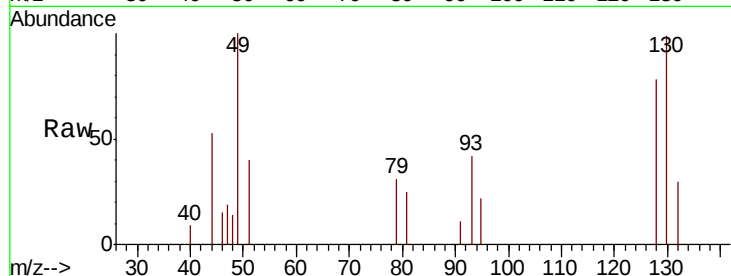




#23  
 Bromochloromethane  
 Concen: 2.324 ug/L  
 RT: 4.29 min Scan# 994  
 Delta R.T. 0.01 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion: | 128   | Resp: | 2159  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 128.2 | 108.5 | 201.5 |
| 130      | 126.5 | 90.4  | 167.8 |
| 51       | 51.5  | 36.9  | 55.3  |

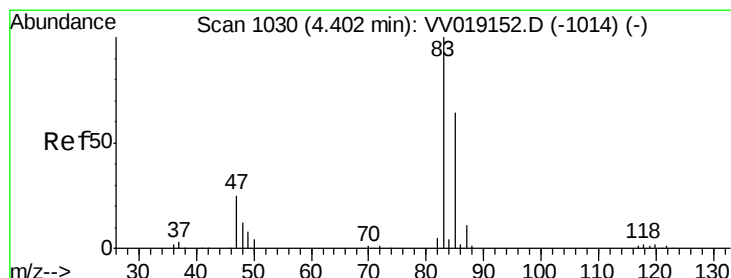
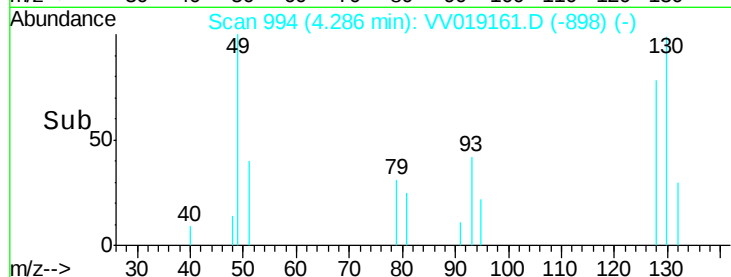
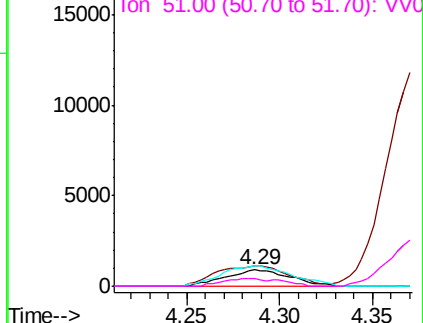


Abundance Ion 128.00 (127.70 to 128.70): VV019152.D (-977) (-)

Ion 49.00 (48.70 to 49.70): VV019152.D (-977) (-)

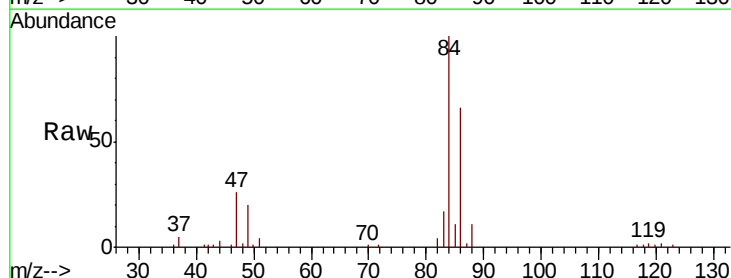
Ion 130.00 (129.70 to 130.70): VV019152.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VV019152.D (-977) (-)



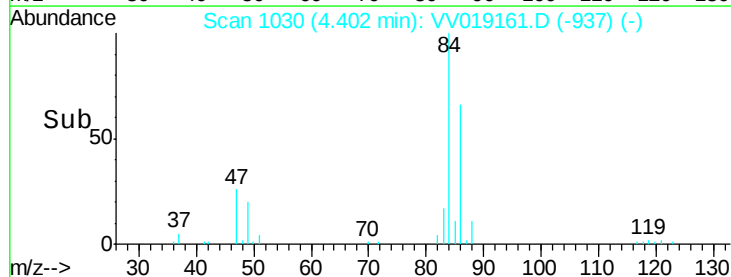
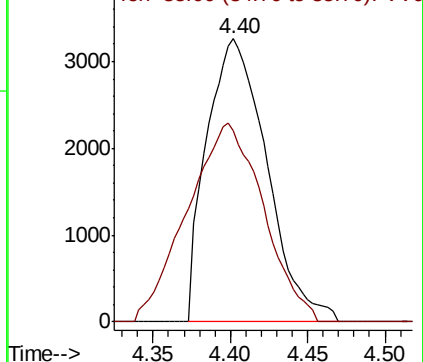
#25  
 Chloroform  
 Concen: 2.771 ug/L  
 RT: 4.40 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

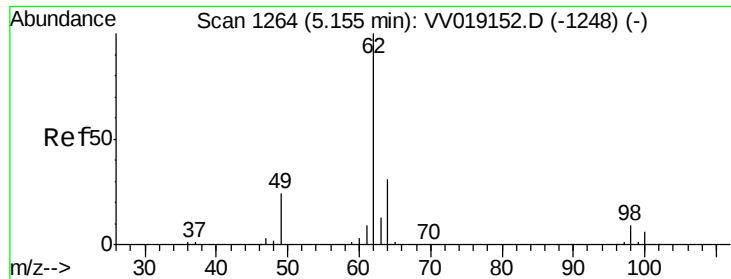
| Tgt Ion: | 83    | Resp: | 8800  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 67.8  | 45.1  | 83.9  |



Abundance Ion 83.00 (82.70 to 83.70): VV019152.D (-1014) (-)

Ion 85.00 (84.70 to 85.70): VV019152.D (-1014) (-)

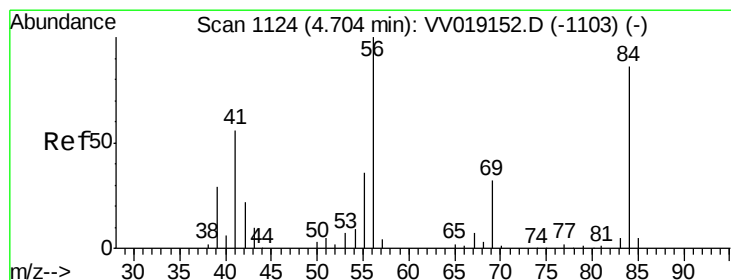
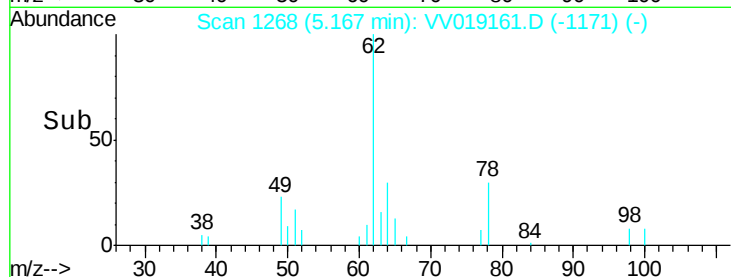
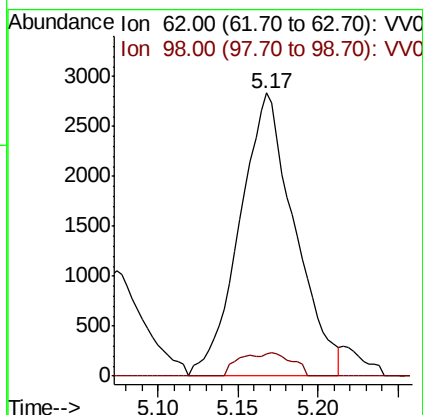
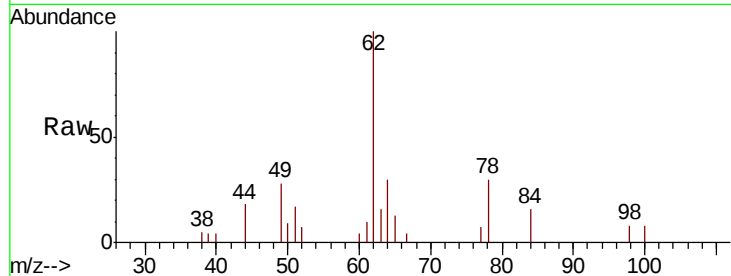




#27  
 1,2-Dichloroethane  
 Concen: 2.479 ug/L  
 RT: 5.17 min Scan# 1268  
 Delta R.T. 0.01 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

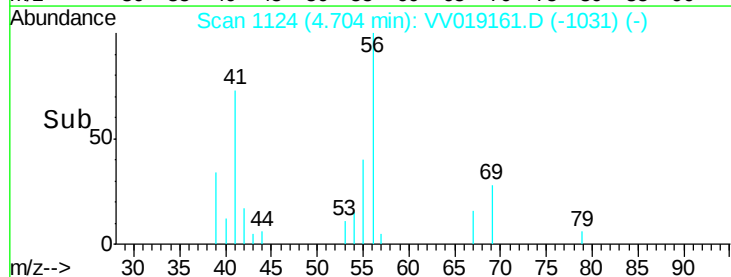
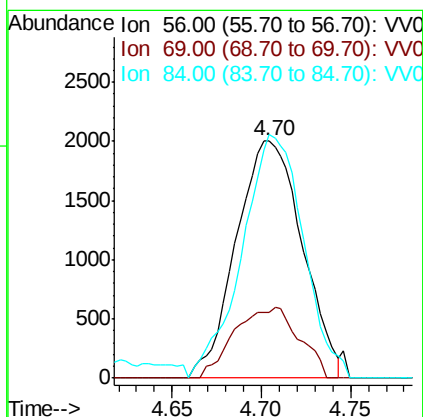
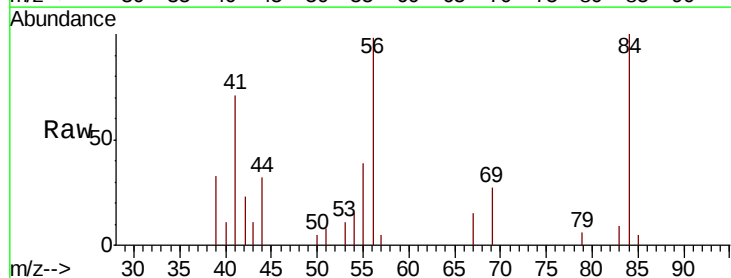
Instrument :  
 MSVOA\_V  
 ClientSampleId :

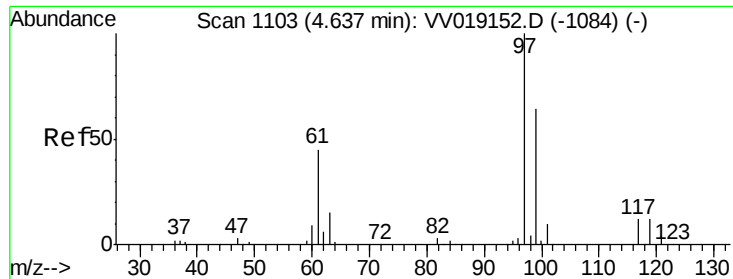
Tot Ion: 62 Resp: 6703  
 Ion Ratio Lower Upper  
 62 100  
 98 7.8 6.8 10.2



#29  
 Cyclohexane  
 Concen: 2.075 ug/L  
 RT: 4.70 min Scan# 1124  
 Delta R.T. -0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

Tgt Ion: 56 Resp: 5177  
 Ion Ratio Lower Upper  
 56 100  
 69 14.5 25.0 37.4#  
 84 95.5 71.5 107.3

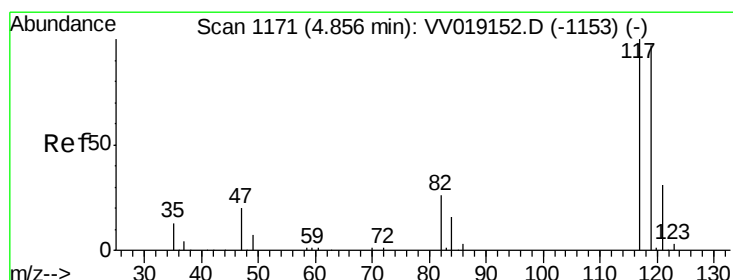
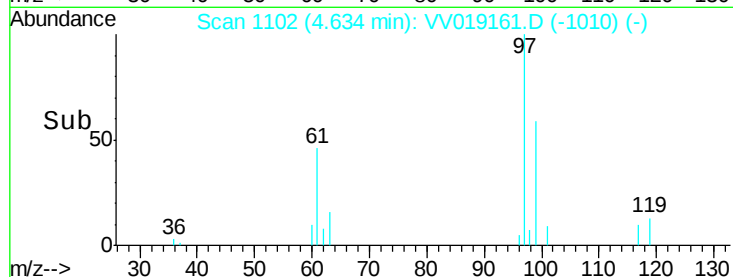
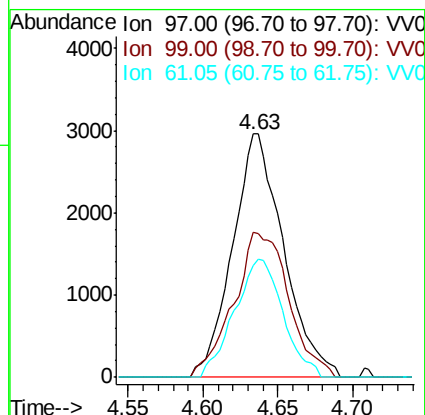
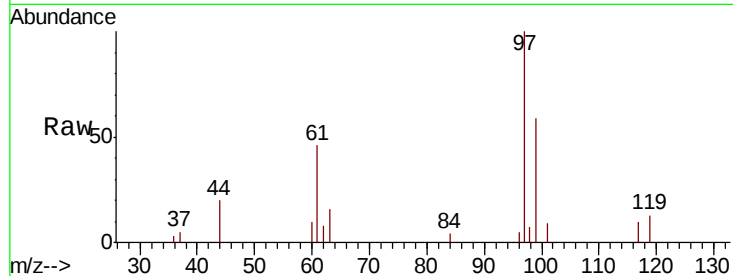




#30  
 1,1,1-Trichloroethane  
 Concen: 2.319 ug/L  
 RT: 4.63 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

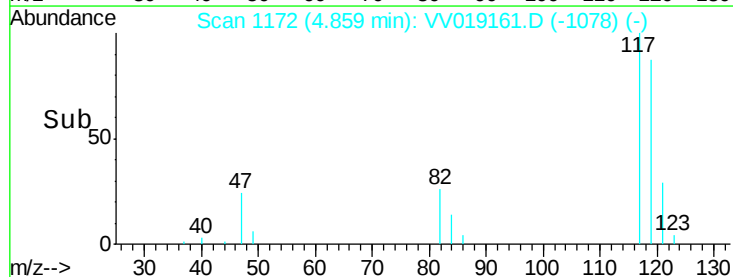
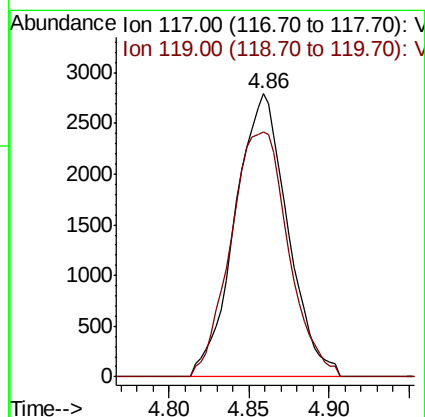
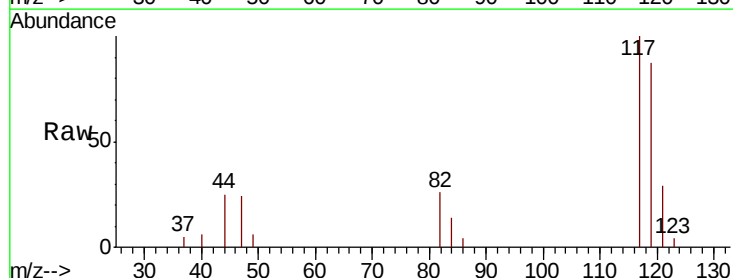
Instrument :  
 MSVOA\_V  
 ClientSampleId :

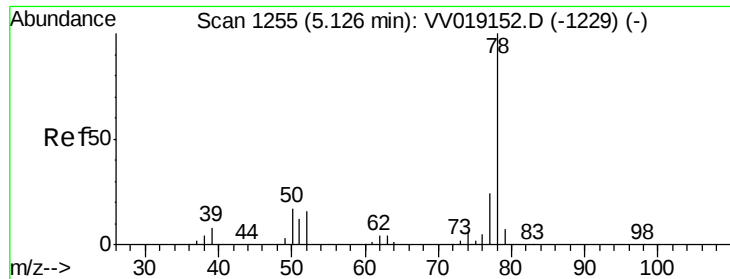
Tot Ion: 97 Resp: 7023  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 51.3 76.9  
 61 46.2 34.6 52.0



#31  
 Carbon tetrachloride  
 Concen: 2.341 ug/L  
 RT: 4.86 min Scan# 1172  
 Delta R.T. 0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

Tgt Ion: 117 Resp: 6287  
 Ion Ratio Lower Upper  
 117 100  
 119 94.7 77.2 115.8





#33

Benzene

Concen: 2.408 ug/L

RT: 5.13 min Scan# 1257

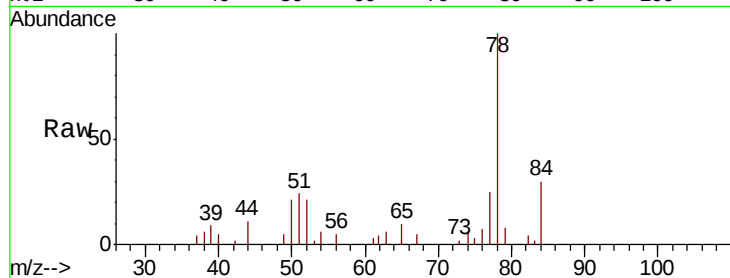
Delta R.T. 0.01 min

Lab File: VV019161.D

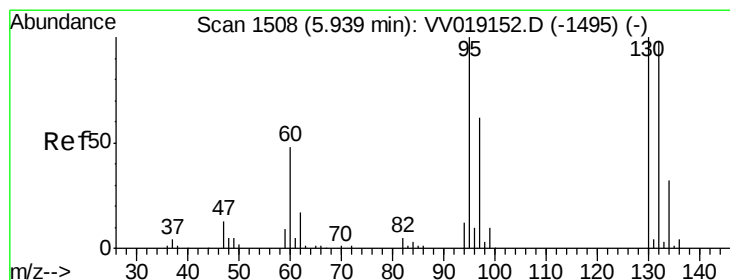
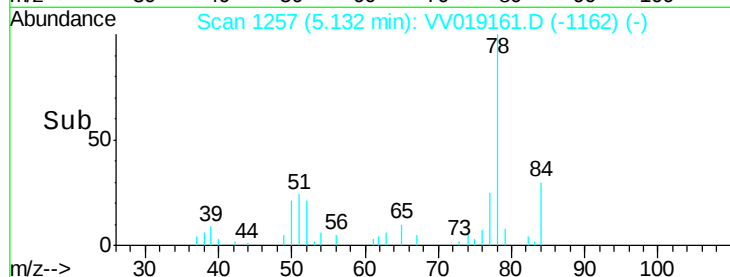
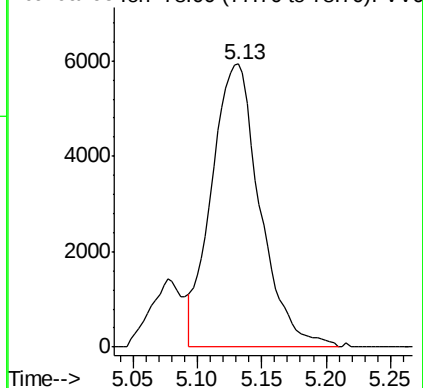
Acq: 29 Oct 2020 21:59

Instrument :  
MSVOA\_V  
ClientSampled :

Tgt Ion: 78 Resp: 15520



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 2.374 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Tgt Ion: 95 Resp: 4192

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.9  | 43.4  | 80.6  |
| 132 | 109.2 | 69.7  | 129.4 |
| 130 | 91.3  | 72.4  | 134.5 |

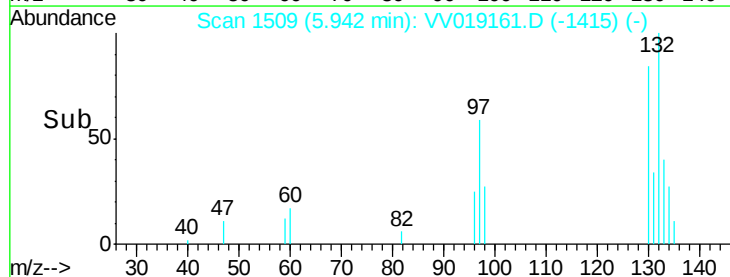
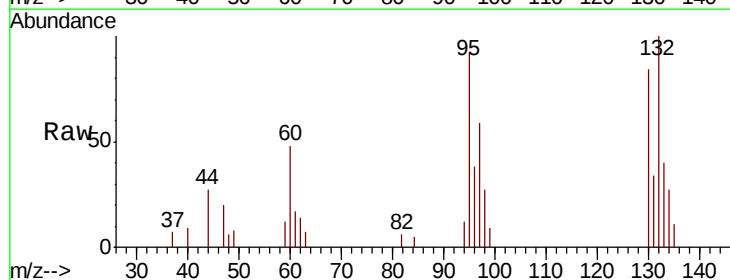
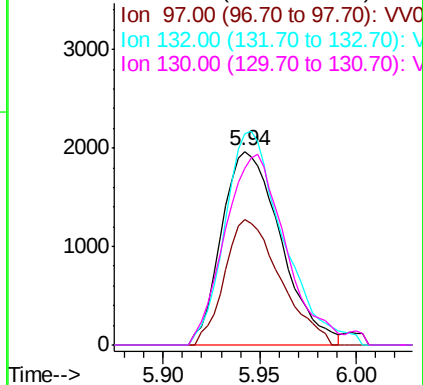
Ion 95.00 (94.70 to 95.70): VV0

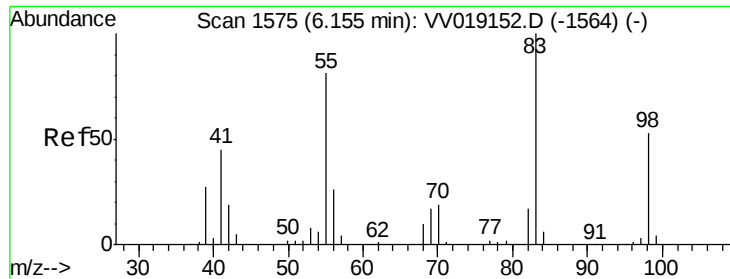
Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

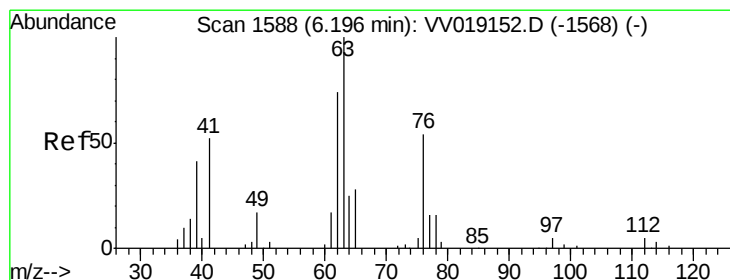
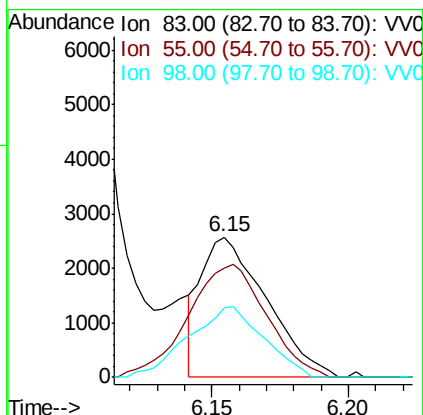
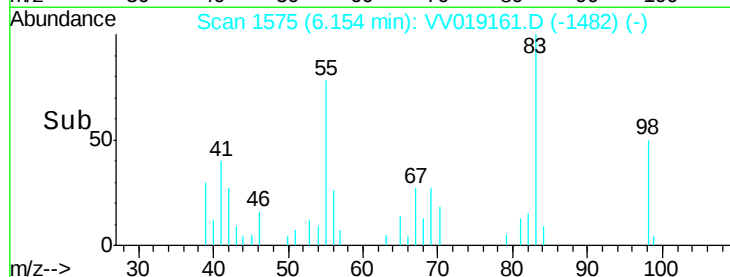
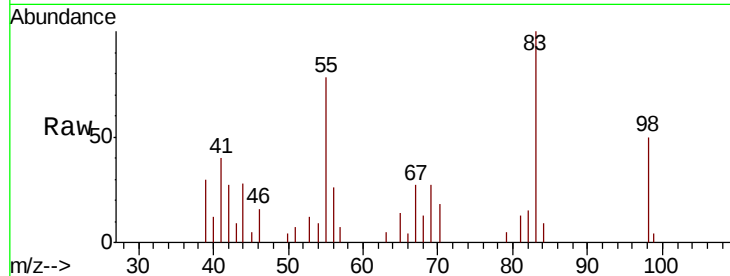




#35  
Methvlcvclohexane  
Concen: 1.780 ug/L  
RT: 6.15 min Scan# 1575  
Delta R.T. -0.00 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

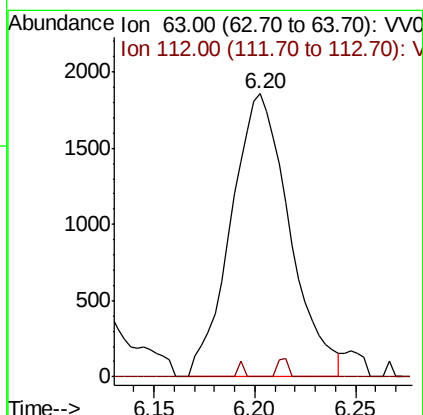
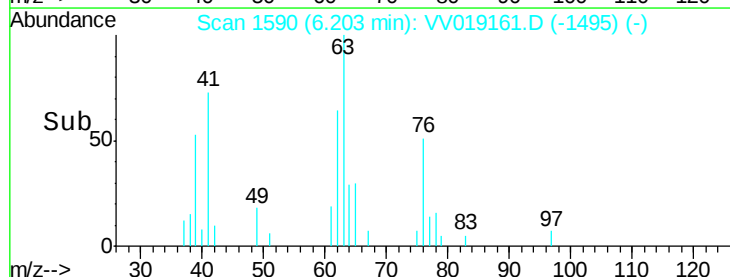
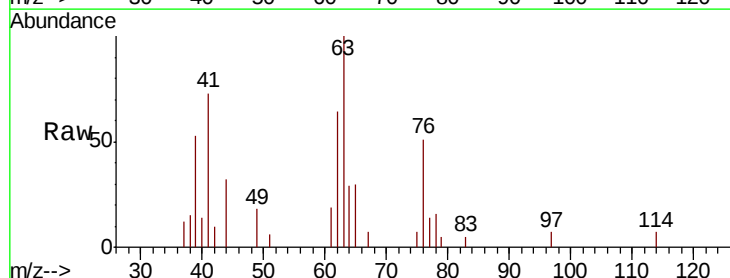
Instrument :  
MSVOA\_V  
ClientSampled :

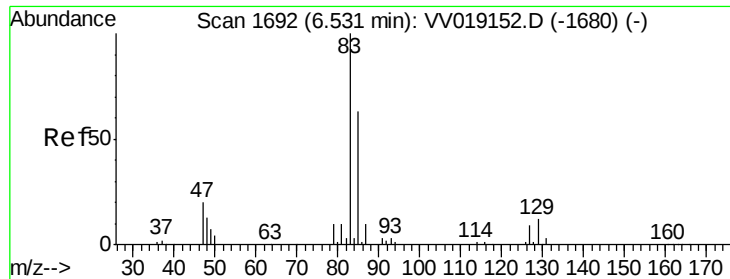
Tot Ion: 83 Resp: 4243  
Ion Ratio Lower Upper  
83 100  
55 97.2 62.2 93.4#  
98 58.5 39.4 59.2



#37  
1,2-Dichloropropane  
Concen: 2.352 ug/L  
RT: 6.20 min Scan# 1590  
Delta R.T. 0.01 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

Tgt Ion: 63 Resp: 3764  
Ion Ratio Lower Upper  
63 100  
112 1.2 3.8 5.8#

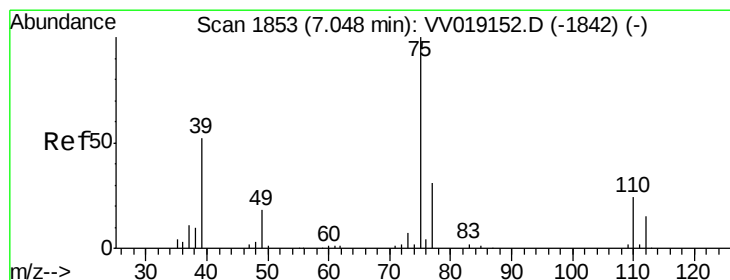
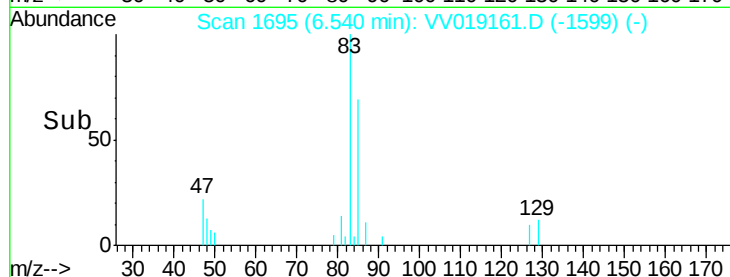
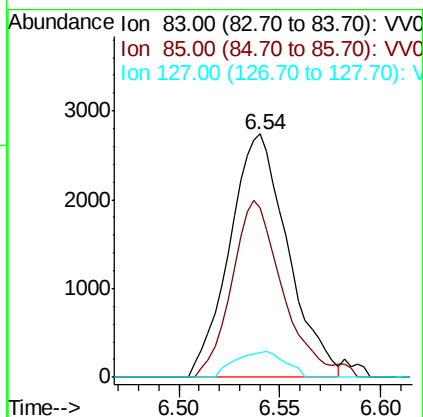
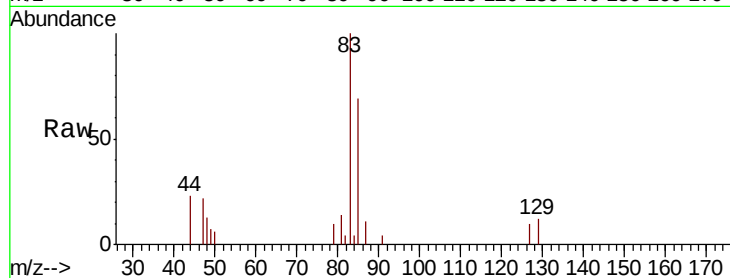




#38  
Bromodichloromethane  
Concen: 2.317 ug/L  
RT: 6.54 min Scan# 1695  
Delta R.T. 0.01 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

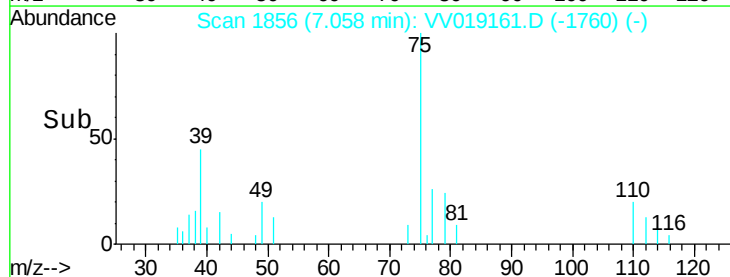
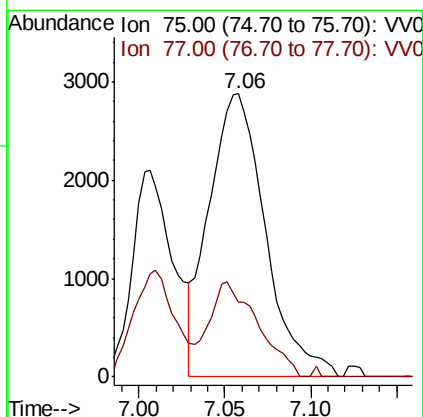
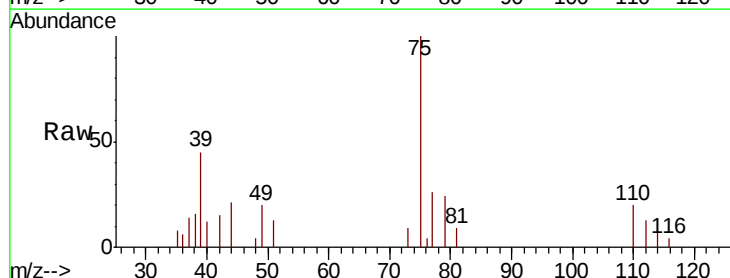
Instrument :  
MSVOA\_V  
ClientSampled :

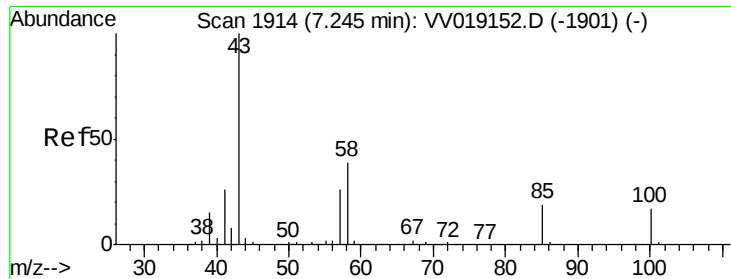
Tot Ion: 83 Resp: 5516  
Ion Ratio Lower Upper  
83 100  
85 69.4 45.9 85.3  
127 10.3 6.9 10.3



#39  
cis-1,3-Dichloropropene  
Concen: 2.486 ug/L  
RT: 7.06 min Scan# 1856  
Delta R.T. 0.01 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

Tgt Ion: 75 Resp: 6573  
Ion Ratio Lower Upper  
75 100  
77 26.2 22.7 42.1

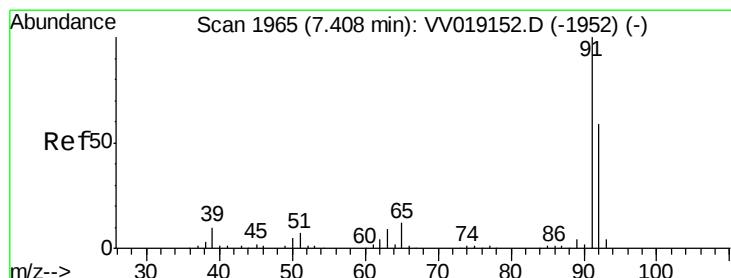
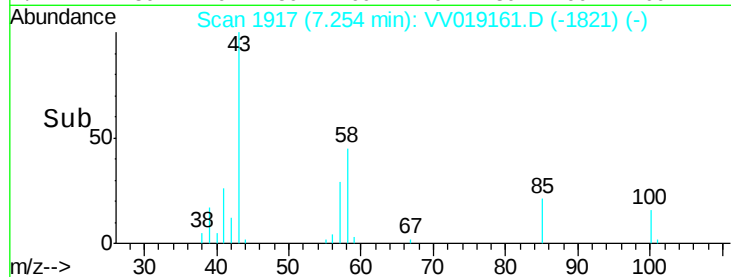
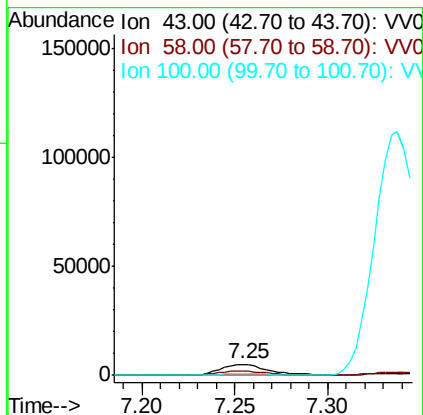
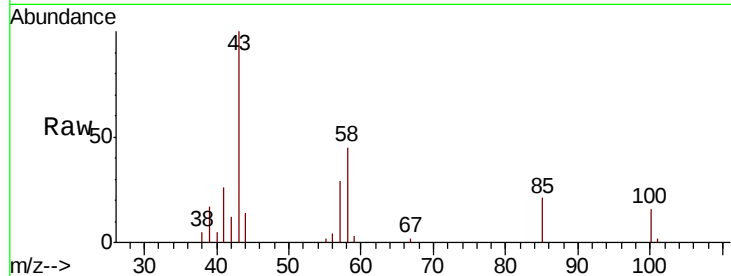




#40  
 4-Methyl-2-pentanone  
 Concen: 4.286 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.01 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

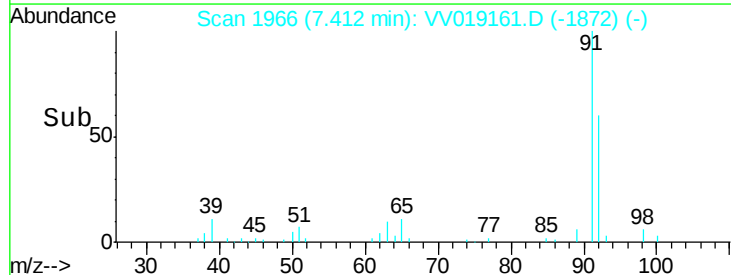
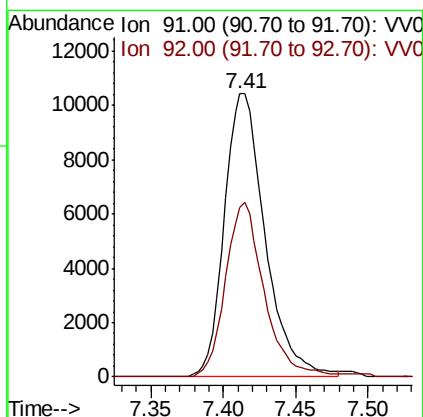
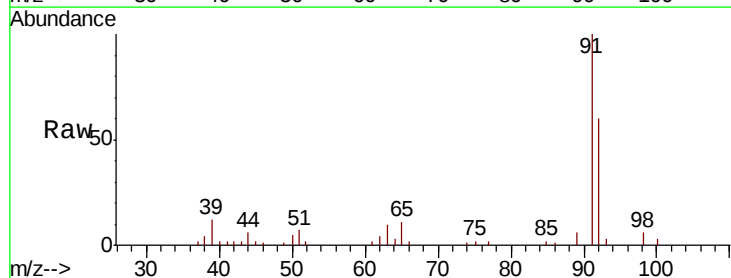
Instrument :  
 MSVOA\_V  
 ClientSampled :

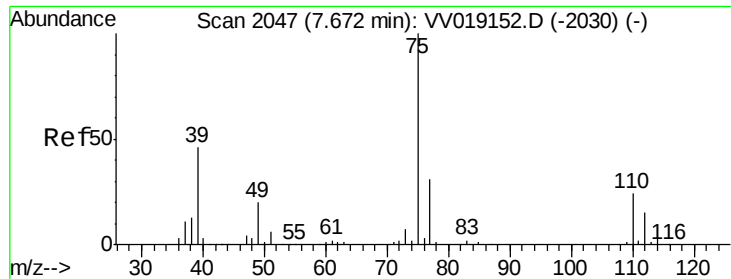
Tot Ion: 43 Resp: 9463  
 Ion Ratio Lower Upper  
 43 100  
 58 40.9 31.0 46.4  
 100 15.8 13.2 19.8



#42  
 Toluene  
 Concen: 2.886 ug/L  
 RT: 7.41 min Scan# 1966  
 Delta R.T. 0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

Tgt Ion: 91 Resp: 20390  
 Ion Ratio Lower Upper  
 91 100  
 92 59.8 41.5 77.1





#44

trans-1,3-Dichloropropene

Concen: 1.914 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

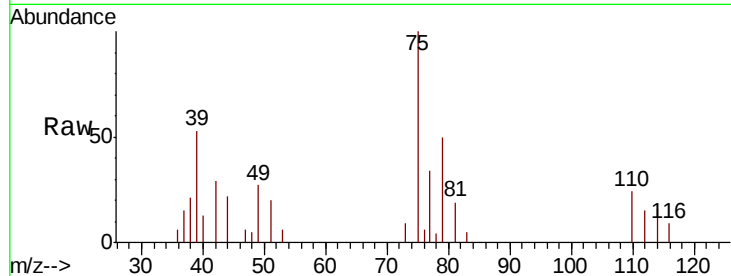
ClientSampleId :

Tot Ion: 75 Resp: 5264

Ion Ratio Lower Upper

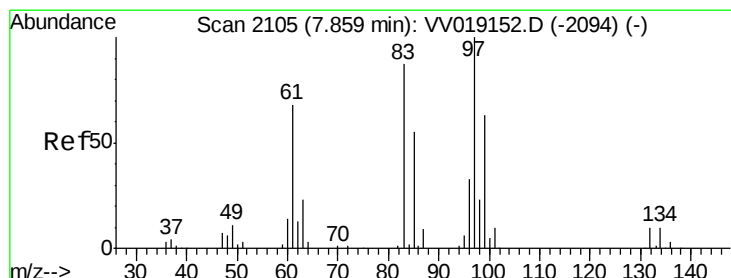
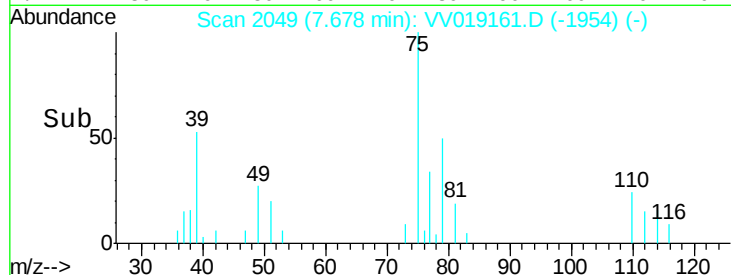
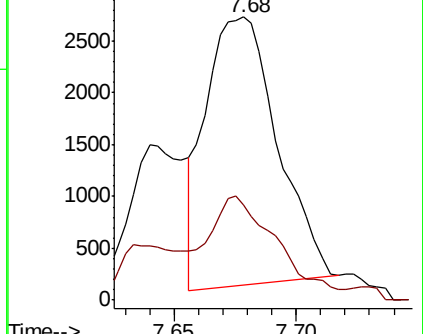
75 100

77 33.5 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV019152.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV019152.D (-2030) (-)



#45

1,1,2-Trichloroethane

Concen: 2.422 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Tgt Ion: 97 Resp: 3888

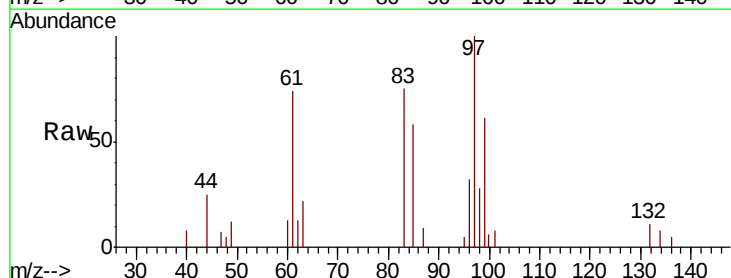
Ion Ratio Lower Upper

97 100

99 60.7 43.1 80.1

83 74.7 58.3 108.3

85 57.9 37.8 70.2

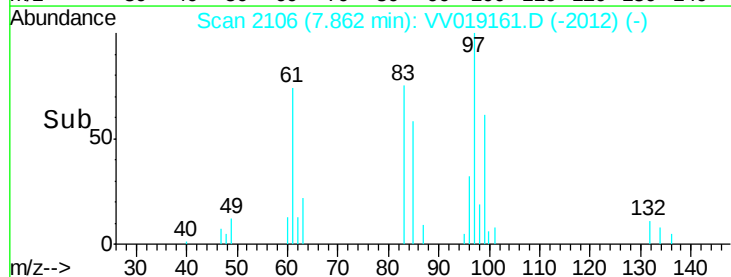
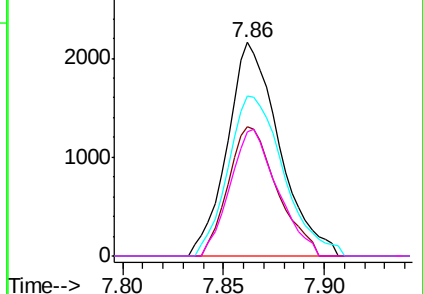


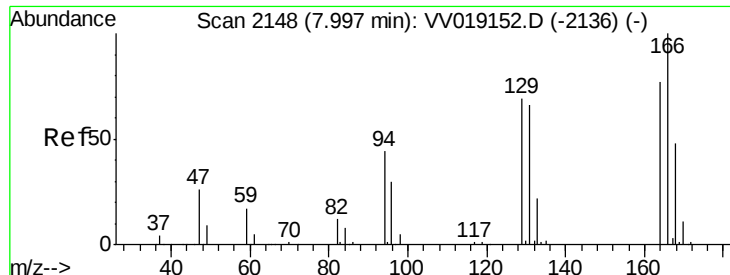
Abundance Ion 97.00 (96.70 to 97.70): VV019152.D (-2094) (-)

Ion 99.00 (98.70 to 99.70): VV019152.D (-2094) (-)

Ion 83.00 (82.70 to 83.70): VV019152.D (-2094) (-)

Ion 85.00 (84.70 to 85.70): VV019152.D (-2094) (-)

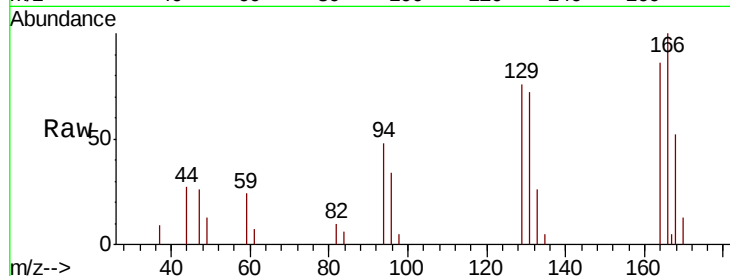




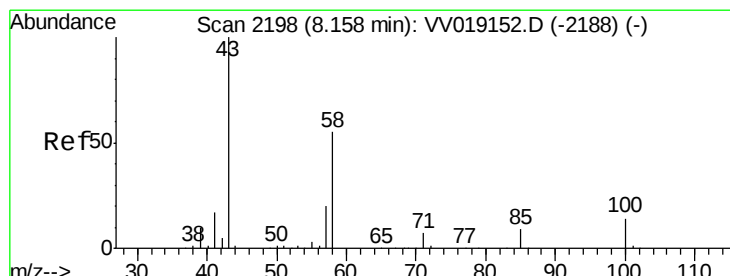
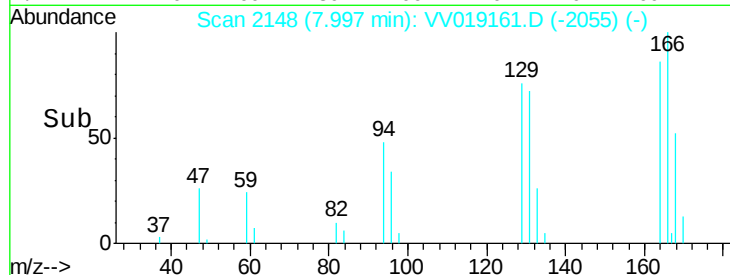
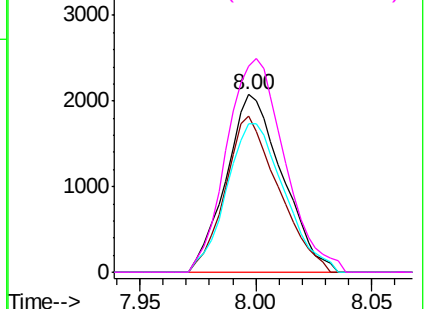
#46  
Tetrachloroethene  
Concen: 2.324 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.00 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 3503  
Ion Ratio Lower Upper  
164 100  
129 87.9 63.2 117.4  
131 83.2 60.3 112.1  
166 116.0 88.3 163.9

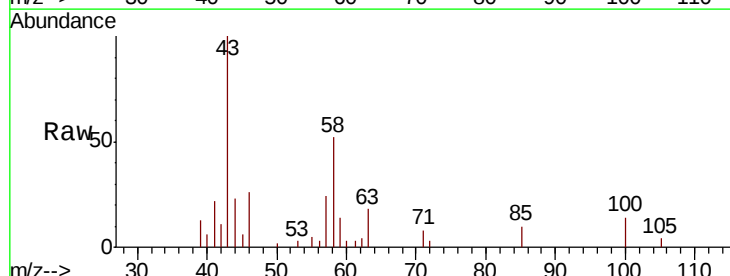


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

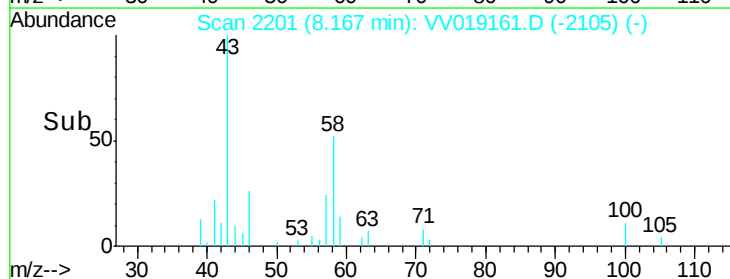
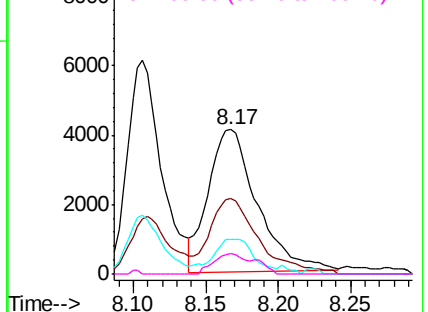


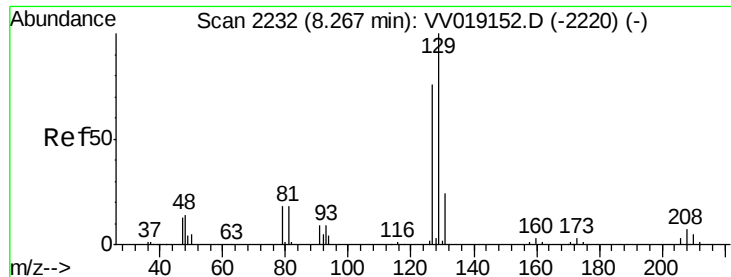
#48  
2-Hexanone  
Concen: 5.463 ug/L  
RT: 8.17 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

Tgt Ion: 43 Resp: 9587  
Ion Ratio Lower Upper  
43 100  
58 47.1 43.6 65.4  
57 7.5 16.0 24.0#  
100 9.3 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 2.175 ug/L

RT: 8.27 min Scan# 2233

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

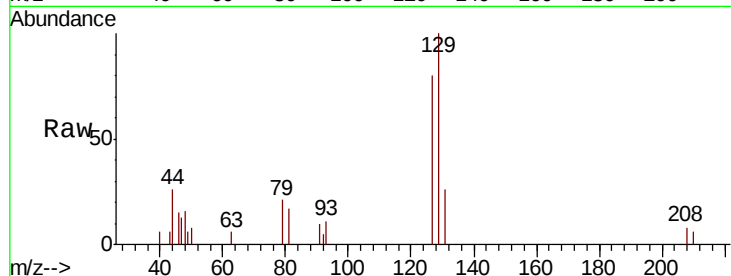
ClientSampled :

Tot Ion:129 Resp: 4227

Ion Ratio Lower Upper

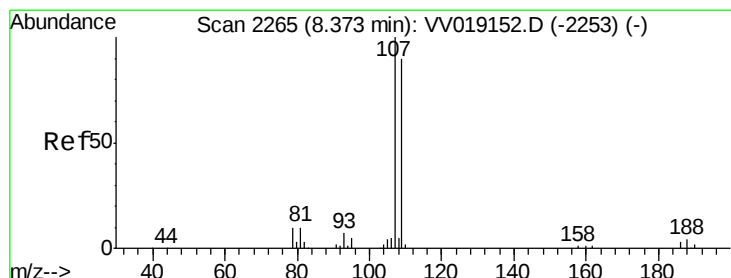
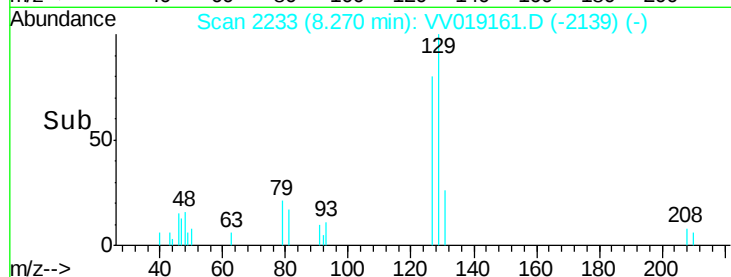
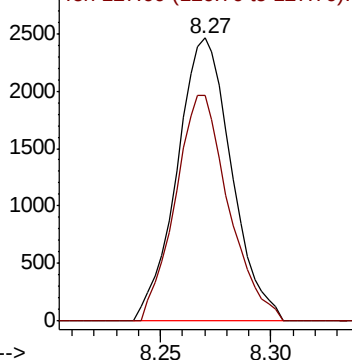
129 100

127 79.8 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 2.277 ug/L

RT: 8.38 min Scan# 2266

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

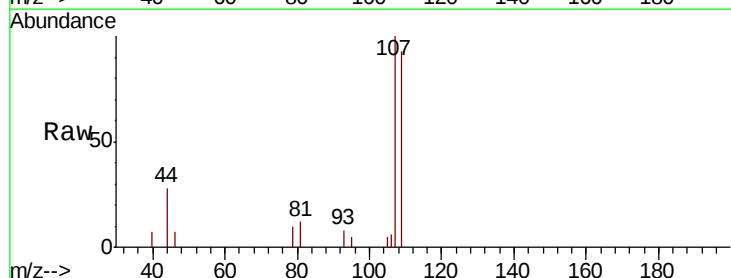
Tgt Ion:107 Resp: 3900

Ion Ratio Lower Upper

107 100

109 92.9 65.7 121.9

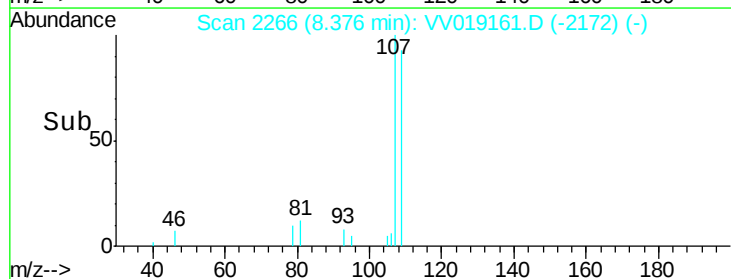
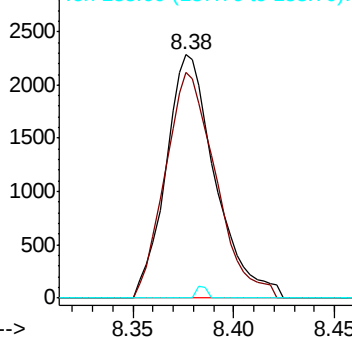
188 0.0 3.4 5.2#

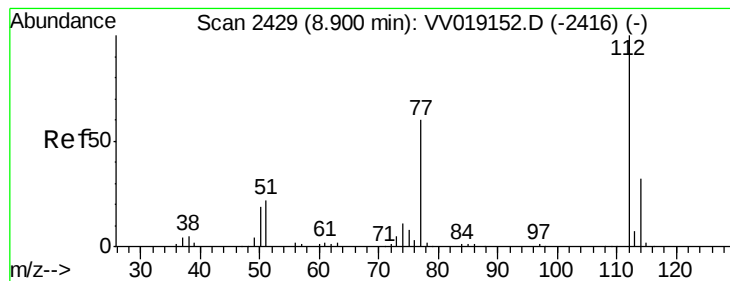


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 2.392 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :  
MSVOA\_V  
ClientSampleId :

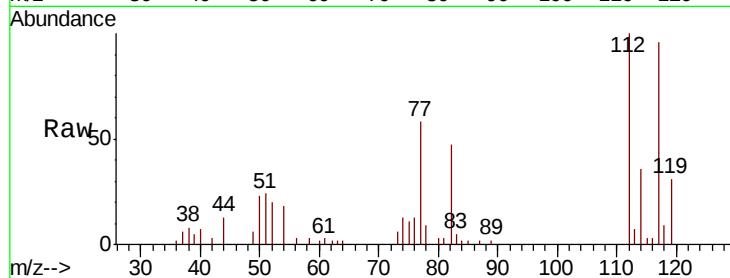
Tot Ion: 112 Resp: 11080

Ion Ratio Lower Upper

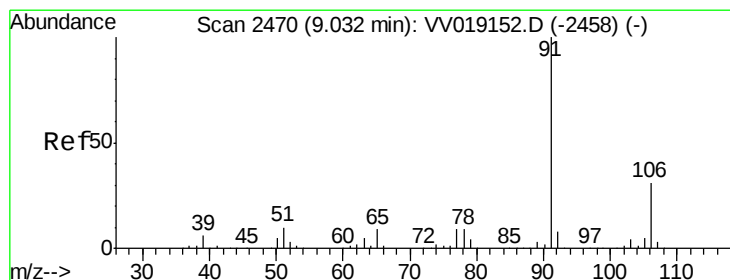
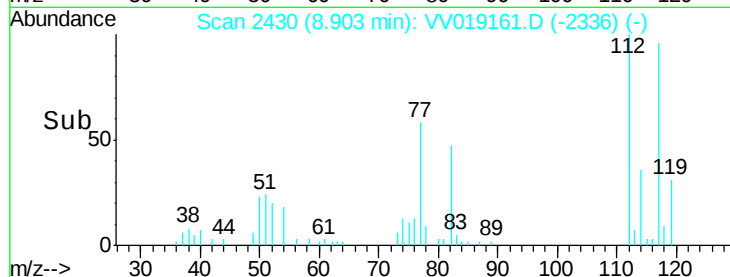
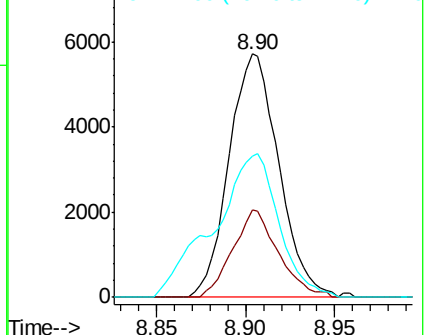
112 100

114 35.8 22.3 41.5

77 58.2 46.7 70.1



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 2.178 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019161.D

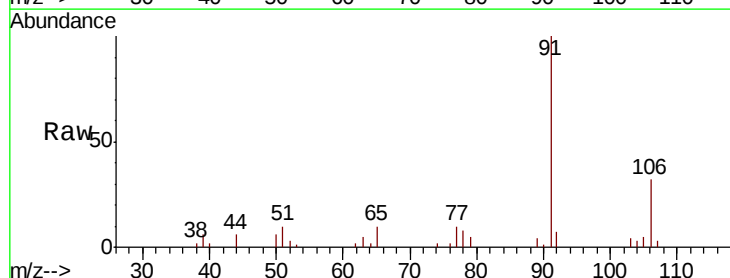
Acq: 29 Oct 2020 21:59

Tgt Ion: 91 Resp: 16959

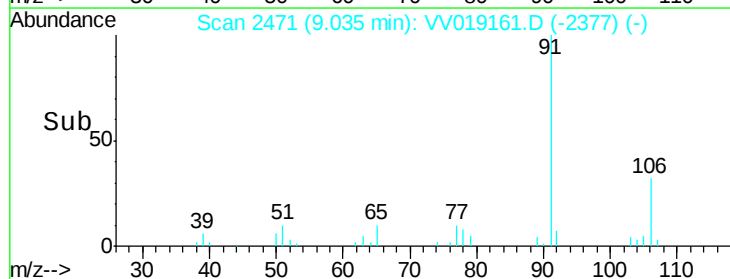
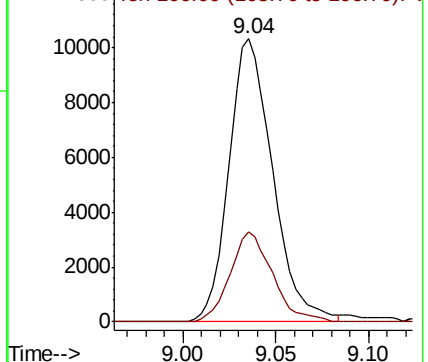
Ion Ratio Lower Upper

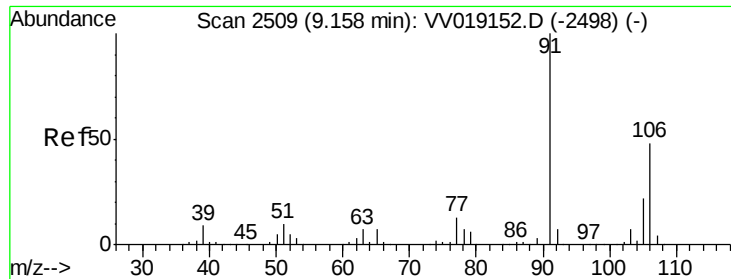
91 100

106 32.0 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV0  
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 2.153 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

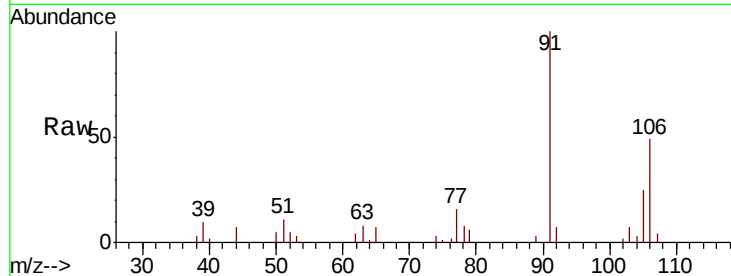
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 6330

Ion Ratio Lower Upper

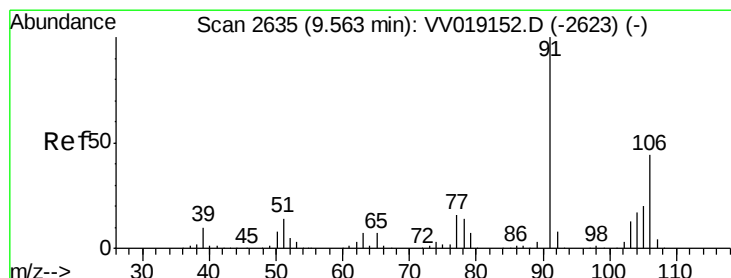
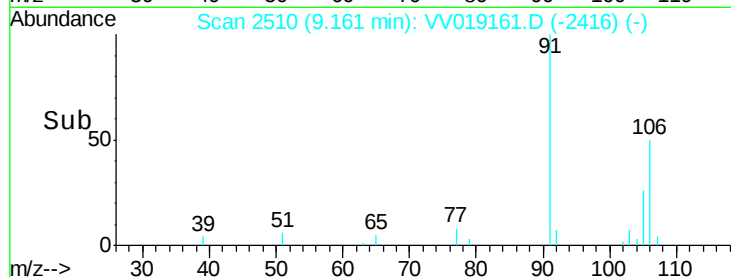
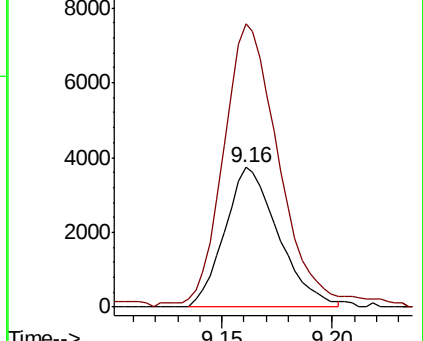
106 100

91 202.8 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 2.103 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019161.D

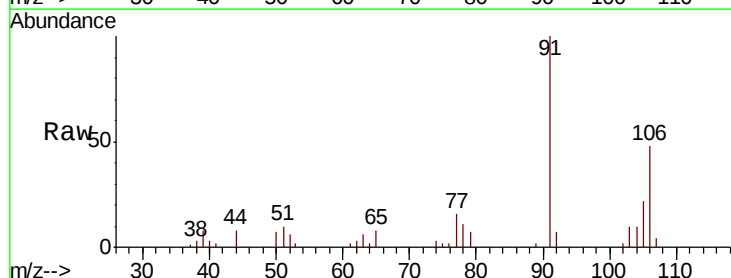
Acq: 29 Oct 2020 21:59

Tgt Ion:106 Resp: 5937

Ion Ratio Lower Upper

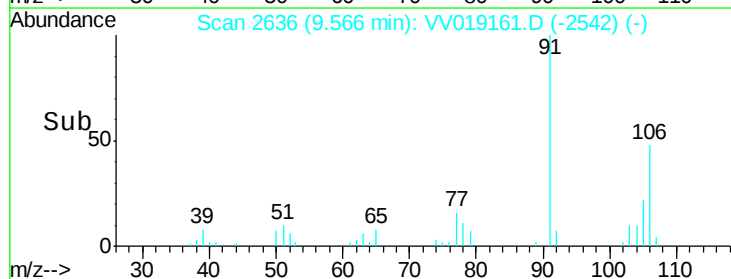
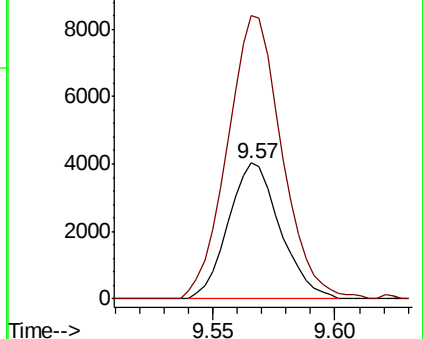
106 100

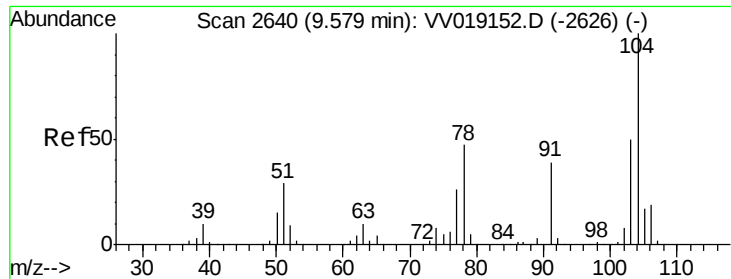
91 207.9 153.4 285.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 1.858 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

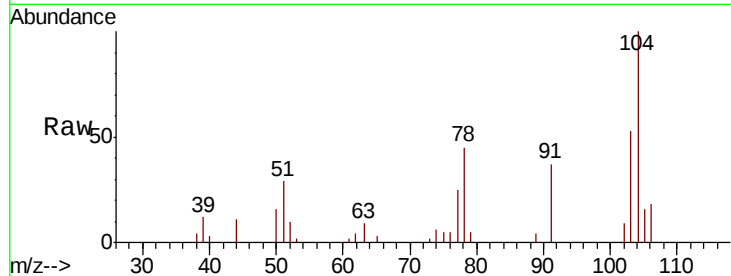
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:104 Resp: 9296

Ion Ratio Lower Upper

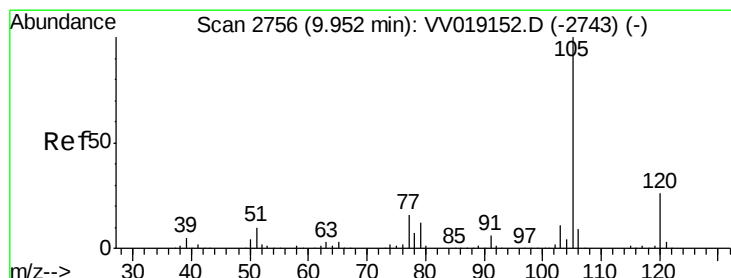
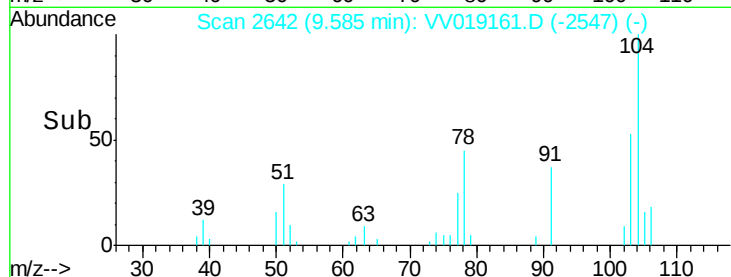
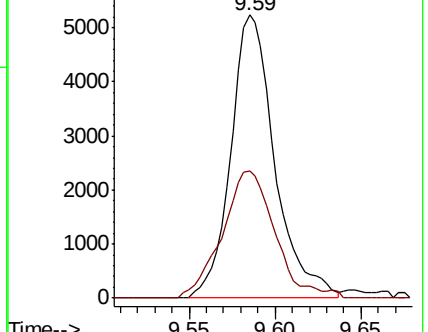
104 100

78 45.0 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 1.965 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

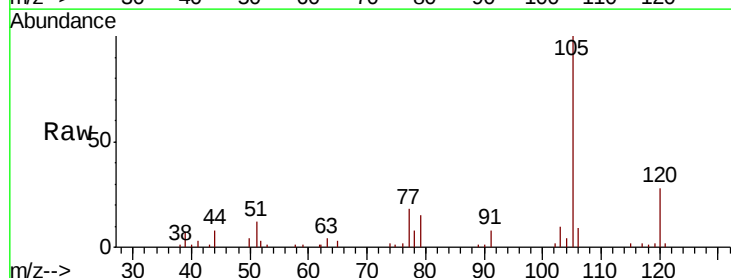
Tgt Ion:105 Resp: 14907

Ion Ratio Lower Upper

105 100

120 26.2 21.3 31.9

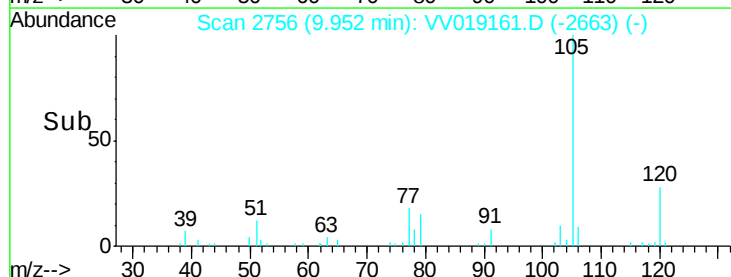
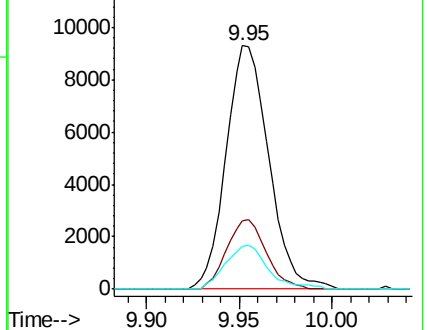
77 17.9 13.0 19.4

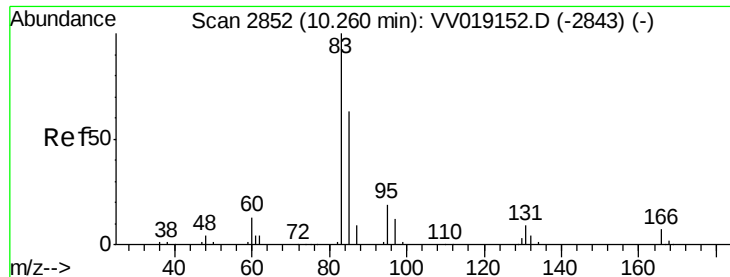


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 2.392 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

ClientSampleId :

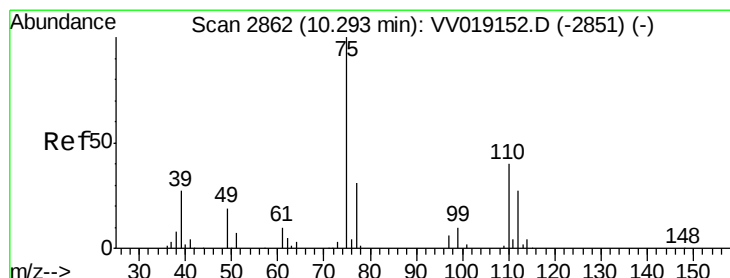
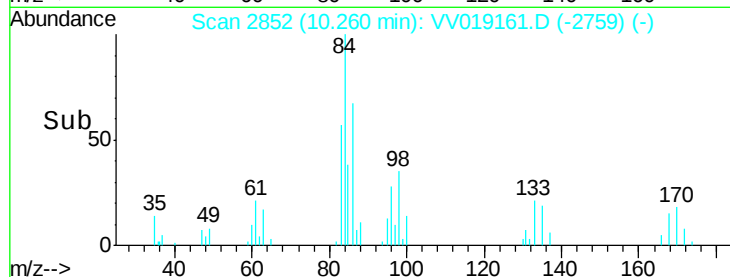
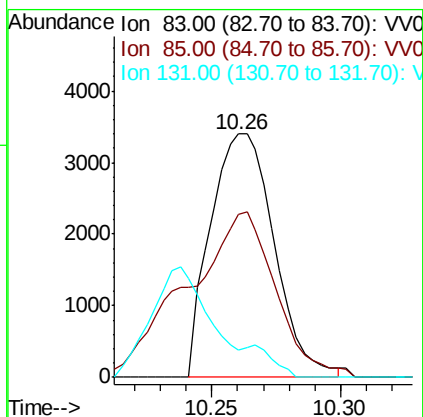
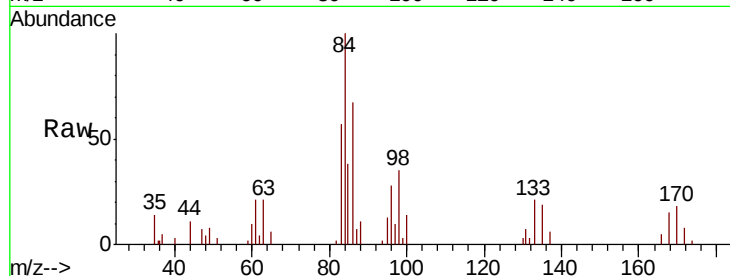
Tot Ion: 83 Resp: 5847

Ion Ratio Lower Upper

83 100

85 67.0 45.8 85.0

131 16.3 8.9 13.3#



#59

1,2,3-Trichloropropane

Concen: 2.358 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV019161.D

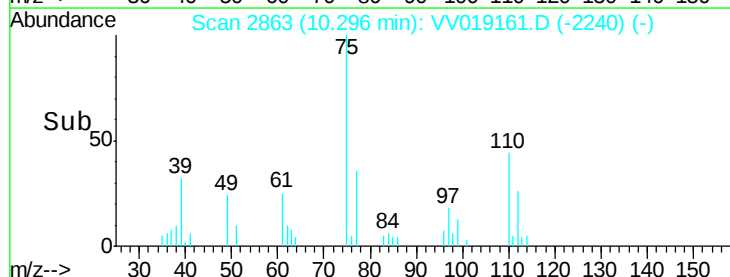
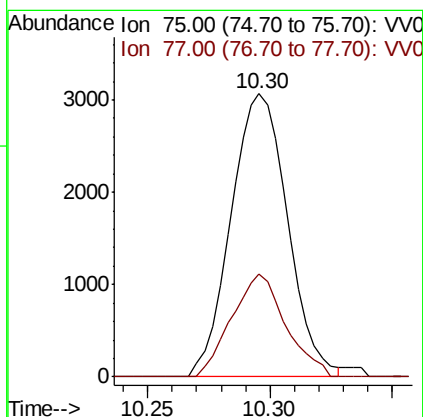
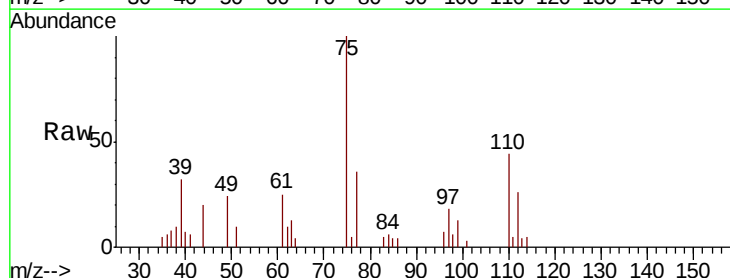
Acq: 29 Oct 2020 21:59

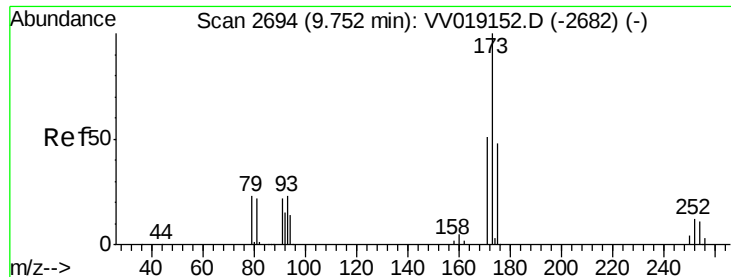
Tgt Ion: 75 Resp: 4933

Ion Ratio Lower Upper

75 100

77 34.7 26.2 39.4





#61

Bromoform

Concen: 2.137 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :  
MSVOA\_V  
ClientSampleId :

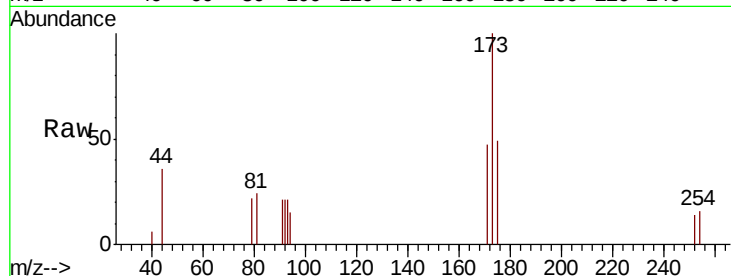
Tot Ion:173 Resp: 3000

Ion Ratio Lower Upper

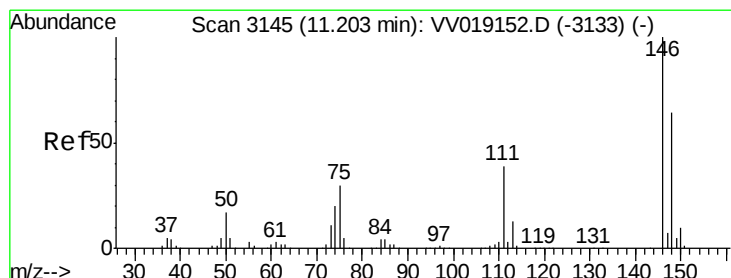
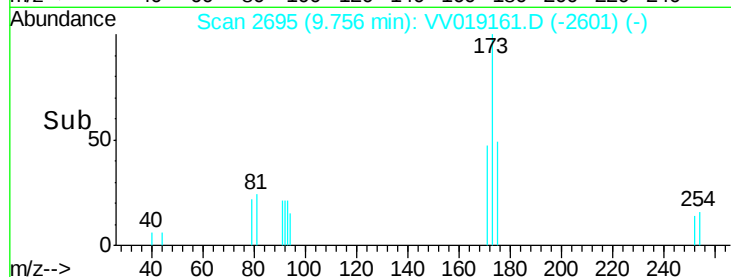
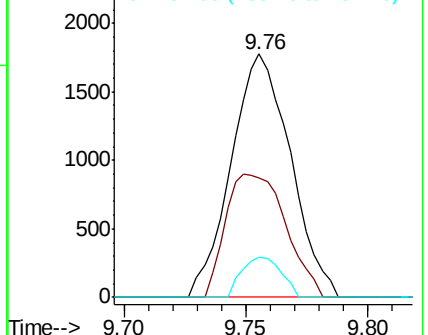
173 100

175 51.3 39.8 59.6

254 10.9 9.7 14.5



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 2.290 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

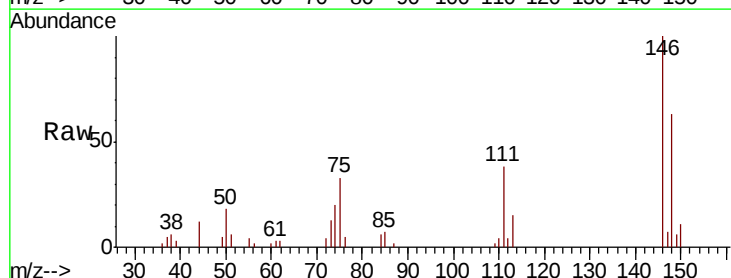
Tgt Ion:146 Resp: 8222

Ion Ratio Lower Upper

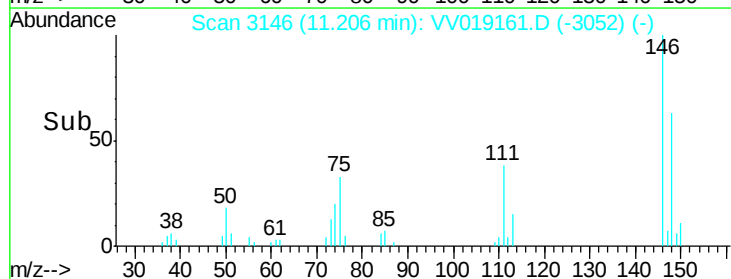
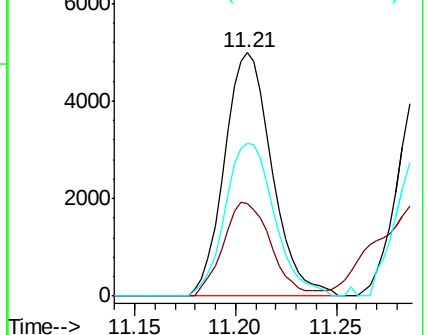
146 100

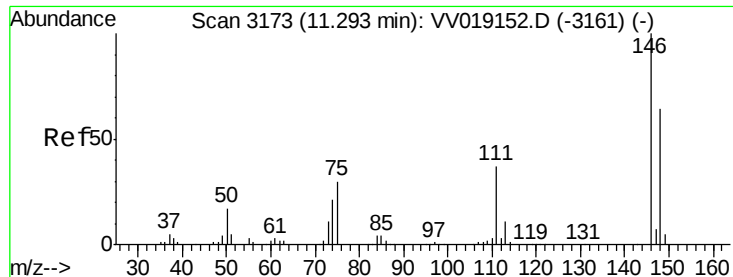
111 38.1 27.1 50.3

148 62.5 44.7 83.1



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

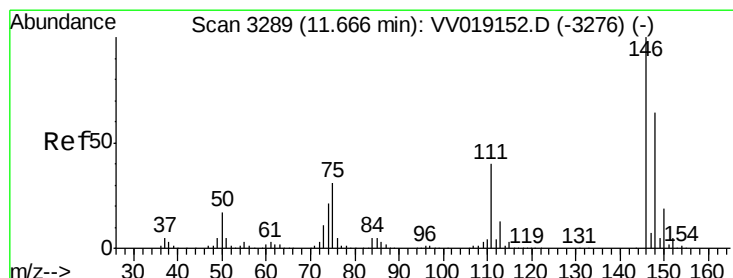
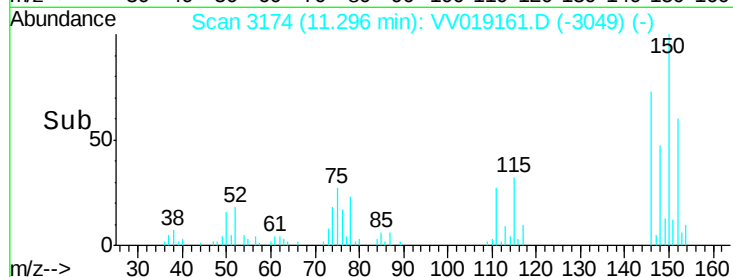
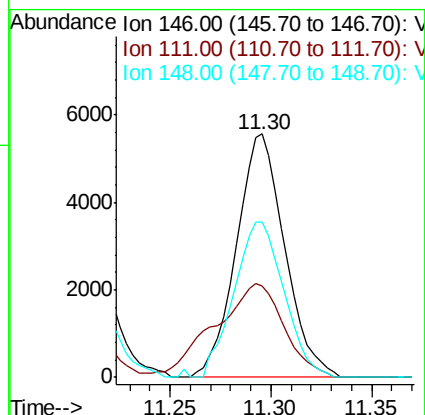
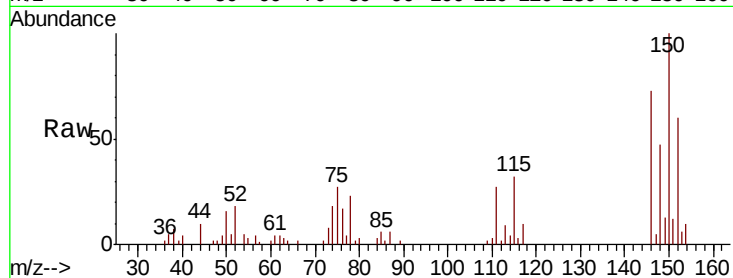




#63  
 1,4-Dichlorobenzene  
 Concen: 2.510 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

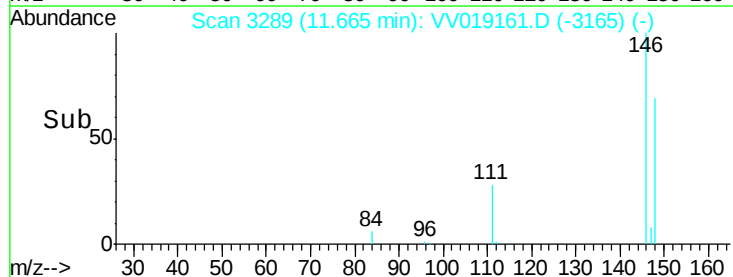
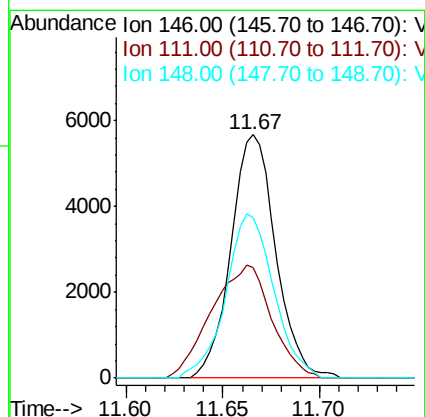
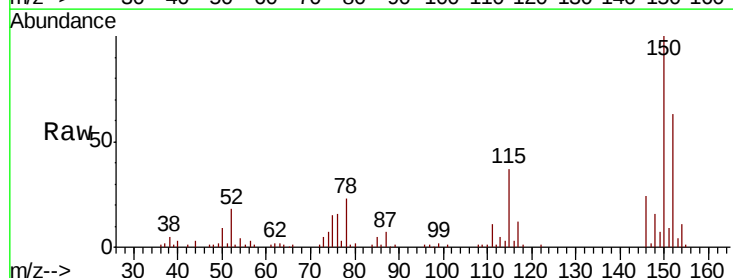
Instrument :  
 MSVOA\_V  
 ClientSampleId :

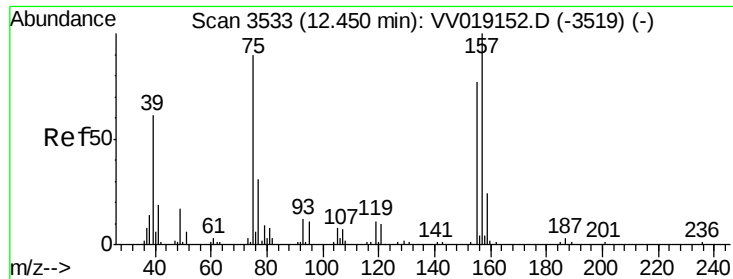
Tot Ion:146 Resp: 9365  
 Ion Ratio Lower Upper  
 146 100  
 111 37.3 25.8 48.0  
 148 63.6 44.0 81.6



#65  
 1,2-Dichlorobenzene  
 Concen: 2.571 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

Tgt Ion:146 Resp: 9145  
 Ion Ratio Lower Upper  
 146 100  
 111 45.6 32.2 48.4  
 148 66.1 50.8 76.2

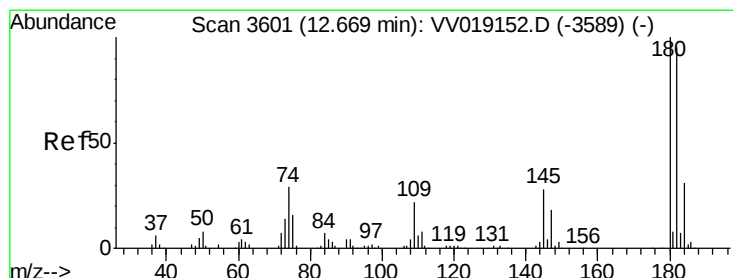
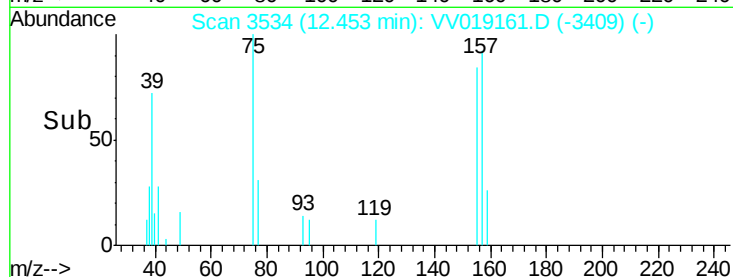
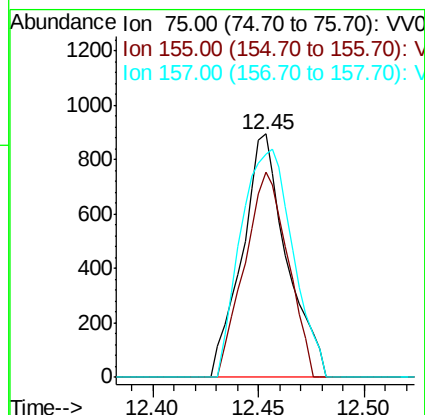
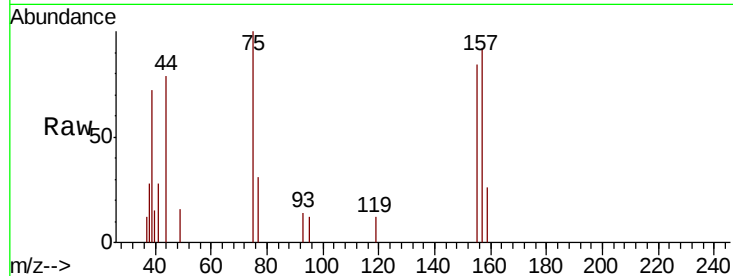




#66  
1,2-Dibromo-3-chloropropane  
Concen: 2.159 ug/L  
RT: 12.45 min Scan# 3534  
Delta R.T. 0.00 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

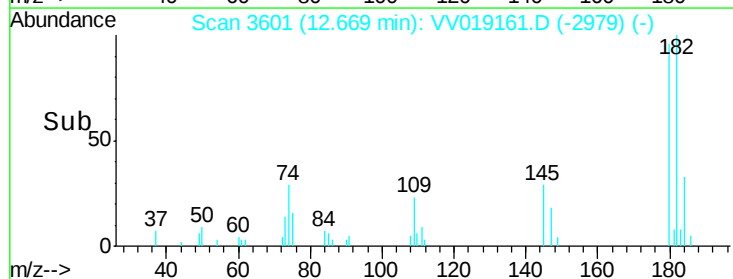
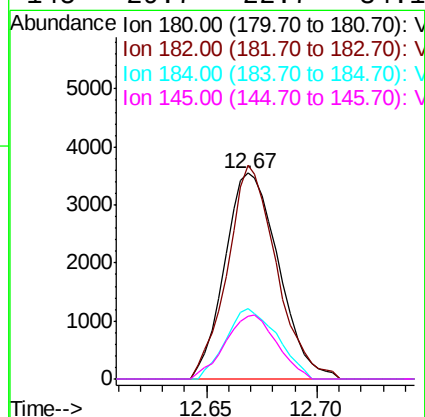
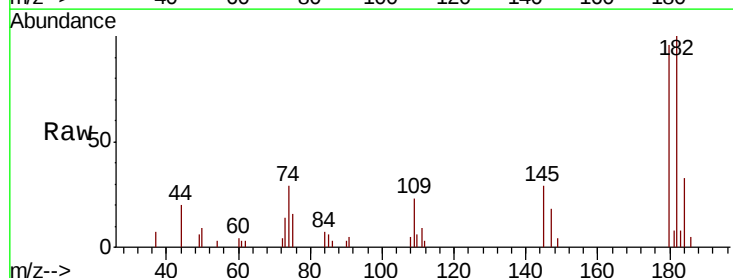
Instrument :  
MSVOA\_V  
ClientSampleId :

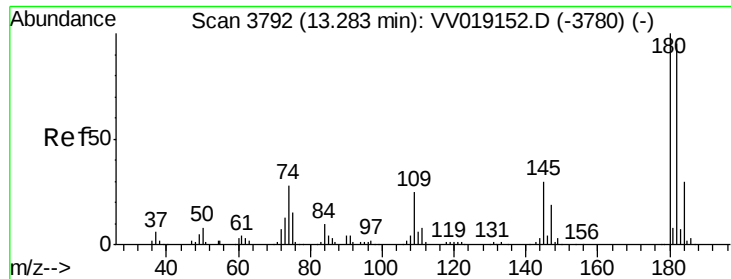
Tot Ion: 75 Resp: 1314  
Ion Ratio Lower Upper  
75 100  
155 84.2 71.1 106.7  
157 91.9 90.5 135.7



#67  
1,3,5-Trichlorobenzene  
Concen: 2.269 ug/L  
RT: 12.67 min Scan# 3601  
Delta R.T. -0.00 min  
Lab File: VV019161.D  
Acq: 29 Oct 2020 21:59

Tgt Ion: 180 Resp: 5996  
Ion Ratio Lower Upper  
180 100  
182 94.8 76.1 114.1  
184 32.7 24.5 36.7  
145 29.7 22.7 34.1

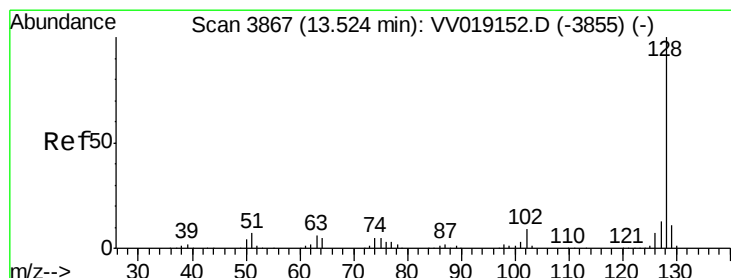
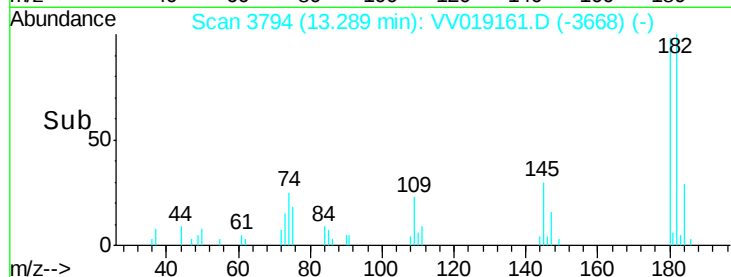
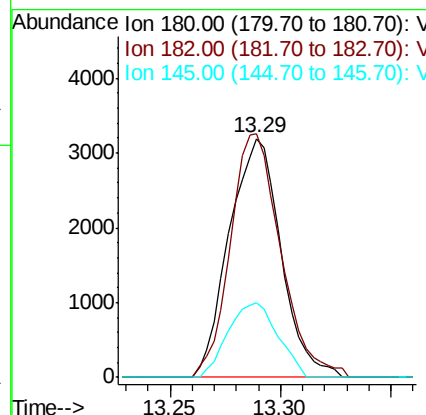
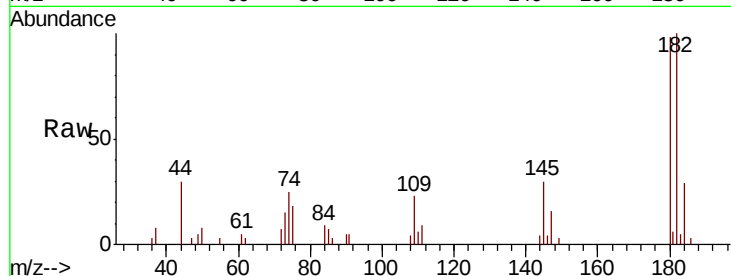




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.102 ug/L  
 RT: 13.29 min Scan# 3794  
 Delta R.T. 0.01 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

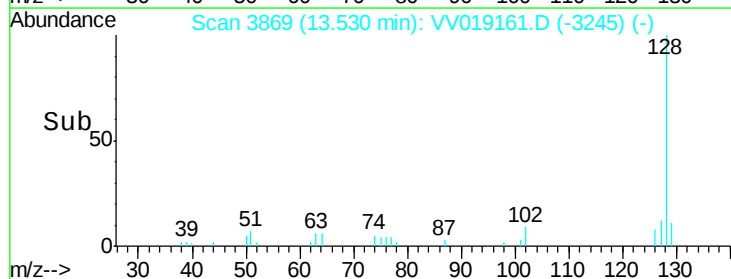
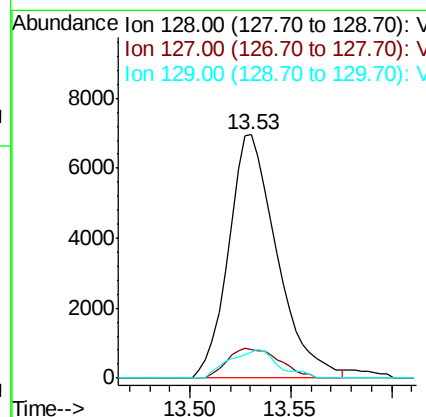
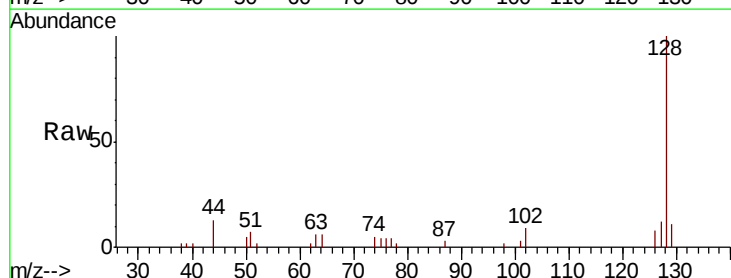
Instrument :  
 MSVOA\_V  
 ClientSampleId :

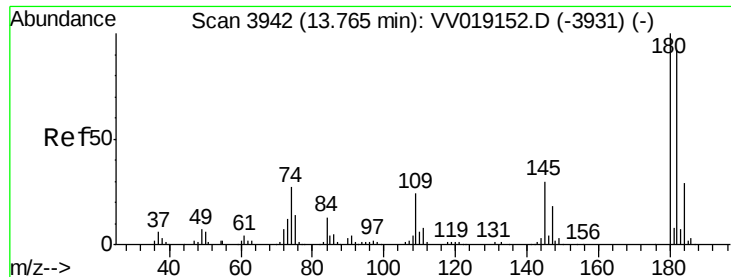
Tot Ion:180 Resp: 5204  
 Ion Ratio Lower Upper  
 180 100  
 182 99.3 75.8 113.6  
 145 29.9 22.6 34.0



#69  
 Naphthalene  
 Concen: 1.682 ug/L  
 RT: 13.53 min Scan# 3869  
 Delta R.T. 0.01 min  
 Lab File: VV019161.D  
 Acq: 29 Oct 2020 21:59

Tgt Ion:128 Resp: 11666  
 Ion Ratio Lower Upper  
 128 100  
 127 13.1 10.8 16.2  
 129 11.7 8.6 13.0





#70

1,2,3-Trichlorobenzene

Concen: 2.100 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

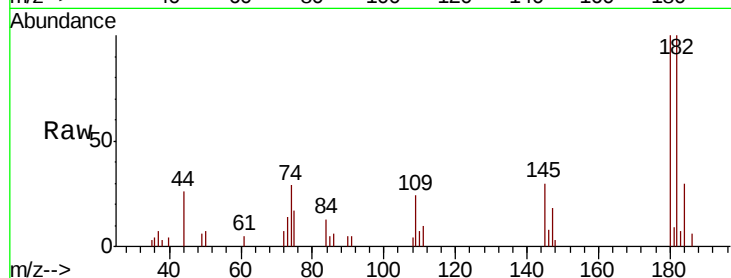
Lab File: VV019161.D

Acq: 29 Oct 2020 21:59

Instrument :

MSVOA\_V

ClientSampleId :



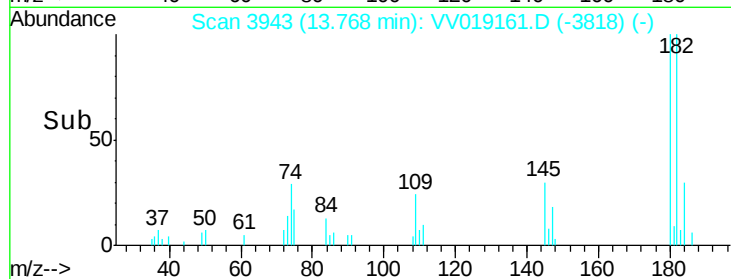
Tot Ion:180 Resp: 5089

Ion Ratio Lower Upper

180 100

182 93.7 76.2 114.4

145 31.5 25.1 37.7



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

