

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U012220\  
 Data File : VU036529.D  
 Acq On : 22 Jan 2020 16:40  
 Operator : JC/MD  
 Sample : VSTDIC020  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 22 22:14:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jan 22 22:08:37 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|---------|---------|----------|
| -----                         | ----- | ----- | -----    | -----   | -----   | -----    |
| 1) Fluorobenzene              | 6.15  | 96    | 35452    | 1.00    | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |         |         |          |
| 57) 4-Bromofluorobenzene      | 10.65 | 95    | 13145    | 0.93    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 93.00%  |          |
| 68) 1,2-Dichlorobenzene-d4    | 12.21 | 152   | 13973    | 1.13    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 113.00% |          |
| Target Compounds              |       |       |          |         |         |          |
|                               |       |       |          |         | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.39  | 85    | 242624   | 23.920  | ug/l    | 98       |
| 3) Chloromethane              | 1.54  | 50    | 255677   | 19.480  | ug/l    | 99       |
| 4) Vinyl Chloride             | 1.62  | 62    | 293368   | 19.466  | ug/l    | 100      |
| 5) Bromomethane               | 1.87  | 94    | 163252   | 20.399  | ug/l    | 99       |
| 6) Chloroethane               | 1.95  | 64    | 150114   | 17.066  | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 2.16  | 101   | 291091   | 16.632  | ug/l    | 98       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.61  | 101   | 179977   | 19.646  | ug/l    | 99       |
| 9) 1,1-Dichloroethene         | 2.61  | 96    | 194380   | 20.803  | ug/l    | 97       |
| 10) Iodomethane               | 2.75  | 142   | 268909   | 24.033  | ug/l    | 99       |
| 11) Allyl Chloride            | 2.95  | 41    | 256876   | 14.021  | ug/l    | 100      |
| 12) Acrylonitrile             | 3.36  | 53    | 92945    | 35.455  | ug/l    | 97       |
| 13) Acetone                   | 2.66  | 43    | 154019   | 48.997  | ug/l    | 99       |
| 14) Carbon Disulfide          | 2.82  | 76    | 665183   | 19.063  | ug/l    | 100      |
| 15) Methylene Chloride        | 3.08  | 84    | 213022   | 17.305  | ug/l    | 99       |
| 16) trans-1,2-Dichloroethene  | 3.39  | 96    | 211336   | 20.223  | ug/l    | 99       |
| 17) 1,1-Dichloroethane        | 3.91  | 63    | 346303   | 18.540  | ug/l    | 99       |
| 18) 2-Butanone                | 4.77  | 43    | 249112   | 73.584  | ug/l    | 100      |
| 19) Cyclohexane               | 5.42  | 56    | 288641   | 15.903  | ug/l    | 91       |
| 20) Methylcyclohexane         | 6.80  | 83    | 362627   | 20.144  | ug/l    | 99       |
| 21) 2,2-Dichloropropane       | 4.71  | 77    | 294688   | 17.448  | ug/l    | 100      |
| 22) cis-1,2-Dichloroethene    | 4.71  | 96    | 219533   | 20.732  | ug/l    | 99       |
| 23) Diethyl Ether             | 2.40  | 59    | 147038   | 18.047  | ug/l    | 99       |
| 24) tert-Butyl Alcohol        | 3.26  | 59    | 141785   | 168.199 | ug/l    | 99       |
| 25) Methyl tert-Butyl Ether   | 3.41  | 73    | 503229   | 17.601  | ug/l    | 99       |
| 26) Bromochloromethane        | 5.02  | 128   | 94963    | 22.379  | ug/l    | 98       |
| 27) Chloroform                | 5.13  | 83    | 341295   | 18.353  | ug/l    | 99       |
| 28) 1,1,1-Trichloroethane     | 5.36  | 97    | 289717   | 17.597  | ug/l    | 99       |
| 29) 1,1-Dichloropropene       | 5.57  | 75    | 280194   | 18.626  | ug/l    | 99       |
| 30) Carbon Tetrachloride      | 5.56  | 117   | 251621   | 18.173  | ug/l    | 99       |
| 31) Isopropyl Ether           | 4.05  | 45    | 533645   | 16.980  | ug/l    | 100      |
| 32) Ethyl-t-butyl ether       | 4.56  | 59    | 552708   | 17.977  | ug/l    | 99       |
| 33) Tert-Amyl methyl ether    | 5.99  | 73    | 503382   | 18.016  | ug/l    | 100      |
| 34) Propionitrile             | 4.84  | 54    | 76361    | 90.419  | ug/l #  | 96       |
| 35) Benzene                   | 5.81  | 78    | 804735   | 19.131  | ug/l    | 100      |
| 36) 1,2-Dichloroethane        | 5.84  | 62    | 216654   | 16.081  | ug/l    | 100      |
| 37) Trichloroethene           | 6.58  | 130   | 223127   | 21.846  | ug/l    | 100      |
| 38) 1,2-Dichloropropane       | 6.83  | 63    | 204025   | 18.472  | ug/l    | 98       |
| 39) Methacrylonitrile         | 5.03  | 41    | 62857    | 15.708  | ug/l    | 99       |
| 40) Methyl acrylate           | 4.90  | 55    | 110110   | 18.545  | ug/l    | 100      |
| 41) Tetrahydrofuran           | 5.12  | 42    | 63043    | 30.382  | ug/l    | 96       |
| 42) 1-Chlorobutane            | 5.50  | 56    | 362768   | 16.648  | ug/l    | 99       |

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 Operator : JC/MD  
 Sample : VSTDIC020  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

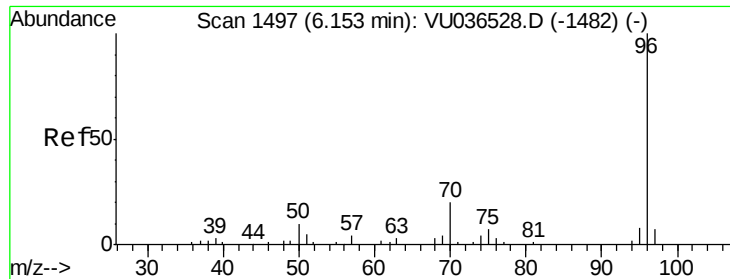
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 22 22:14:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jan 22 22:08:37 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 43) Dibromomethane             | 6.96  | 93   | 105916   | 18.670  | ug/l   | 99       |
| 44) Bromodichloromethane       | 7.14  | 83   | 255525   | 17.497  | ug/l   | 100      |
| 45) 4-Methyl-2-Pentanone       | 7.84  | 43   | 596305   | 76.002  | ug/l   | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.86 | 75   | 263884   | 82.864  | ug/l # | 64       |
| 47) Methyl methacrylate        | 7.00  | 69   | 211509   | 39.093  | ug/l   | 98       |
| 48) Ethyl methacrylate         | 8.37  | 69   | 209675   | 19.607  | ug/l   | 99       |
| 49) Toluene                    | 8.00  | 92   | 516497   | 19.797  | ug/l   | 99       |
| 50) t-1,3-Dichloropropene      | 8.24  | 75   | 264441   | 18.453  | ug/l   | 100      |
| 51) cis-1,3-Dichloropropene    | 7.64  | 75   | 315589   | 19.054  | ug/l   | 99       |
| 52) 1,1,2-Trichloroethane      | 8.43  | 97   | 149187   | 19.831  | ug/l   | 99       |
| 53) 1,3-Dichloropropane        | 8.61  | 76   | 260142   | 18.530  | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.72  | 43   | 420143   | 77.780  | ug/l   | 98       |
| 55) Dibromochloromethane       | 8.84  | 129  | 181754   | 20.630  | ug/l   | 99       |
| 56) 1,2-Dibromoethane          | 8.95  | 107  | 147200   | 19.908  | ug/l   | 99       |
| 58) Tetrachloroethene          | 8.58  | 164  | 226779   | 26.878  | ug/l   | 100      |
| 59) Chlorobenzene              | 9.47  | 112  | 579759   | 21.052  | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane  | 9.56  | 131  | 188843   | 20.250  | ug/l   | 99       |
| 61) Pentachloroethane          | 11.45 | 117  | 116376   | 15.169  | ug/l   | 100      |
| 62) Hexachloroethane           | 12.49 | 117  | 163602   | 20.309  | ug/l   | 99       |
| 63) Ethyl Benzene              | 9.60  | 91   | 975135   | 19.472  | ug/l   | 99       |
| 64) m/p-Xylenes                | 9.72  | 106  | 762917   | 41.199  | ug/l   | 98       |
| 65) o-Xylene                   | 10.12 | 106  | 370565   | 20.501  | ug/l   | 100      |
| 66) Styrene                    | 10.14 | 104  | 625659   | 20.975  | ug/l   | 100      |
| 67) Bromoform                  | 10.32 | 173  | 106565   | 24.431  | ug/l   | 99       |
| 69) Isopropylbenzene           | 10.51 | 105  | 979956   | 20.169  | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 192972   | 19.041  | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane     | 10.86 | 75   | 263884   | 34.134  | ug/l   | 64       |
| 72) Bromobenzene               | 10.81 | 156  | 236872   | 23.032  | ug/l   | 99       |
| 73) n-propylbenzene            | 10.93 | 120  | 279774   | 21.473  | ug/l   | 99       |
| 74) 2-Chlorotoluene            | 11.01 | 126  | 230433   | 20.624  | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene     | 11.11 | 105  | 832859   | 20.198  | ug/l   | 100      |
| 76) 4-Chlorotoluene            | 11.12 | 126  | 242454   | 21.071  | ug/l   | 97       |
| 77) tert-Butylbenzene          | 11.44 | 119  | 786777   | 19.917  | ug/l   | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.49 | 105  | 855580   | 20.032  | ug/l   | 100      |
| 79) sec-Butylbenzene           | 11.66 | 105  | 1096883  | 20.008  | ug/l   | 100      |
| 80) Nitrobenzene               | 13.23 | 77   | 24590    | 138.355 | ug/l   | 99       |
| 81) p-Isopropyltoluene         | 11.81 | 119  | 928237   | 21.229  | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene        | 11.77 | 146  | 470973   | 21.855  | ug/l   | 100      |
| 83) 1,4-Dichlorobenzene        | 11.86 | 146  | 468121   | 21.937  | ug/l   | 100      |
| 84) n-Butylbenzene             | 12.23 | 91   | 883741   | 19.205  | ug/l   | 100      |
| 85) 1,2-Dichlorobenzene        | 12.23 | 146  | 444148   | 21.783  | ug/l   | 100      |
| 86) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 32823    | 17.822  | ug/l   | 99       |
| 87) 1,2,4-Trichlorobenzene     | 13.86 | 180  | 330901   | 25.558  | ug/l   | 100      |
| 88) Hexachlorobutadiene        | 14.04 | 225  | 159075   | 26.170  | ug/l   | 99       |
| 89) Naphthalene                | 14.10 | 128  | 610549   | 23.771  | ug/l   | 100      |
| 90) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 298218   | 25.079  | ug/l   | 100      |

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

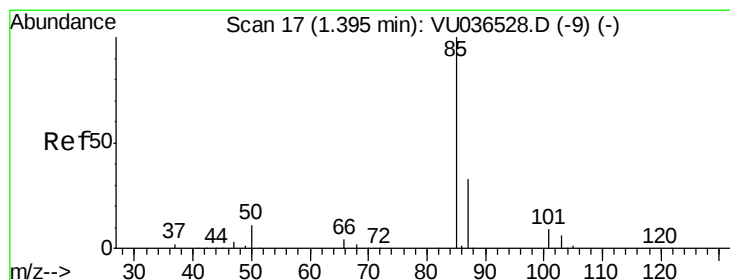
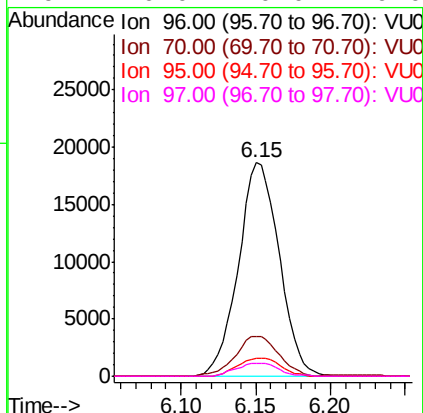
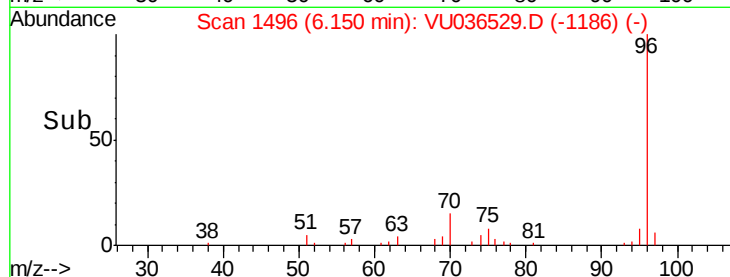
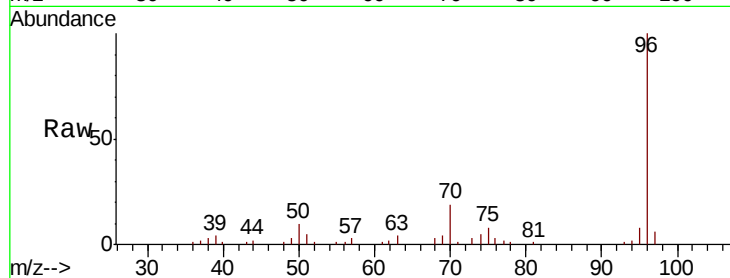




#1  
 Fluorobenzene  
 Concen: 1.000 ug/l  
 RT: 6.15 min Scan# 1496  
 Delta R.T. -0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

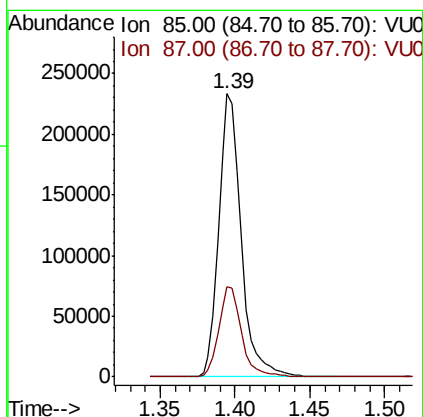
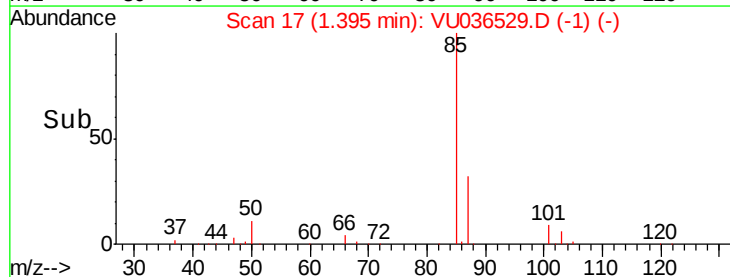
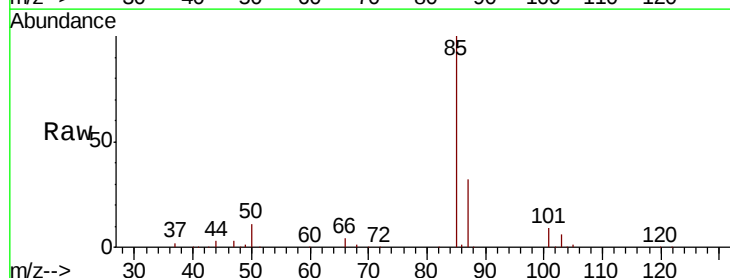
Instrument :  
 MSVOA\_U  
 ClientSampleId :

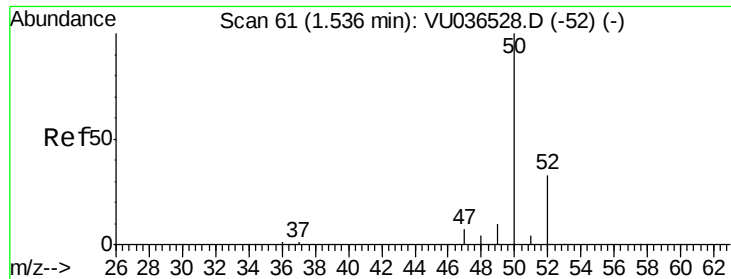
Tot Ion: 96 Resp: 35452  
 Ion Ratio Lower Upper  
 96 100  
 70 19.7 15.6 23.4  
 95 0.0 7.0 10.6#  
 97 0.0 0.0 0.0



#2  
 Dichlorodifluoromethane  
 Concen: 23.920 ug/l  
 RT: 1.39 min Scan# 17  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion: 85 Resp: 242624  
 Ion Ratio Lower Upper  
 85 100  
 87 31.9 16.4 49.2





#3

Chloromethane

Concen: 19.480 ug/l

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

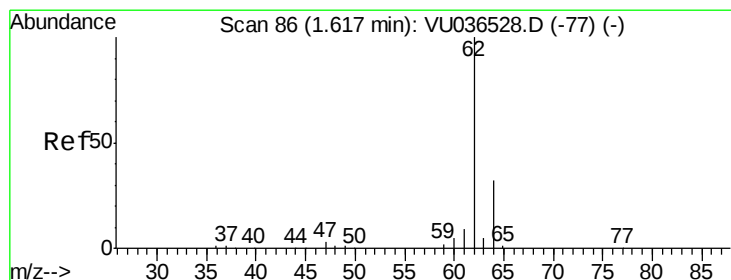
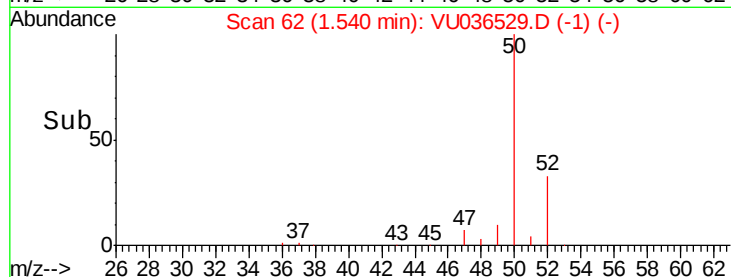
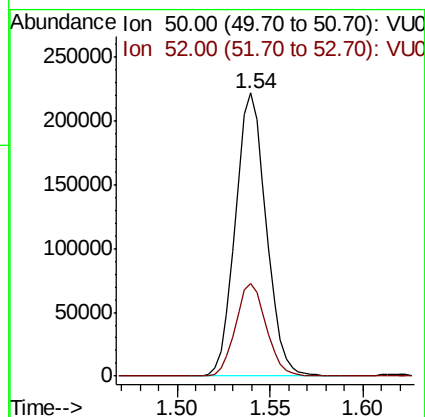
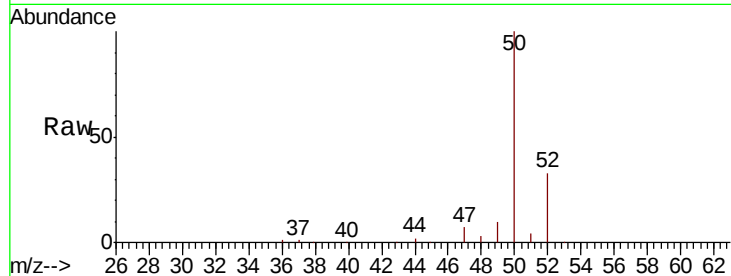
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 50 Resp: 255677

Ion Ratio Lower Upper

50 100

52 32.9 26.0 39.0



#4

Vinyl Chloride

Concen: 19.466 ug/l

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036529.D

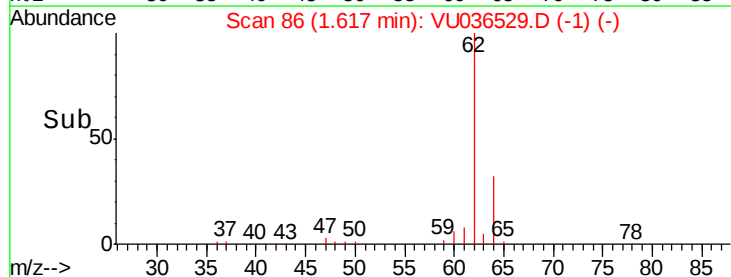
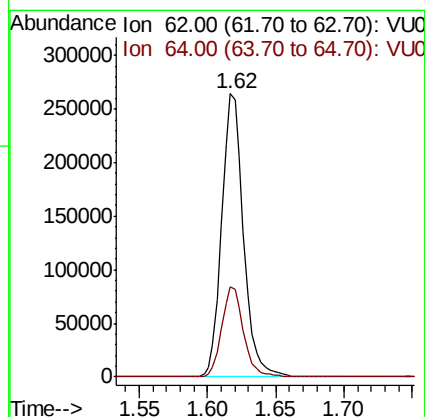
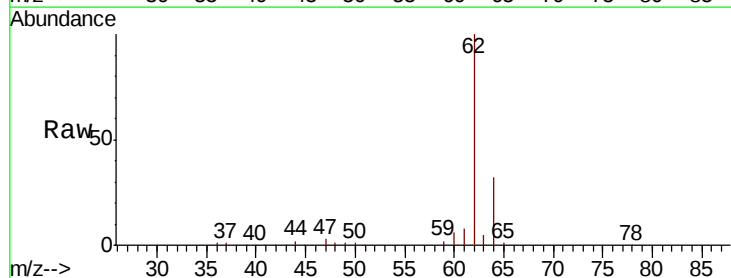
Acq: 22 Jan 2020 16:40

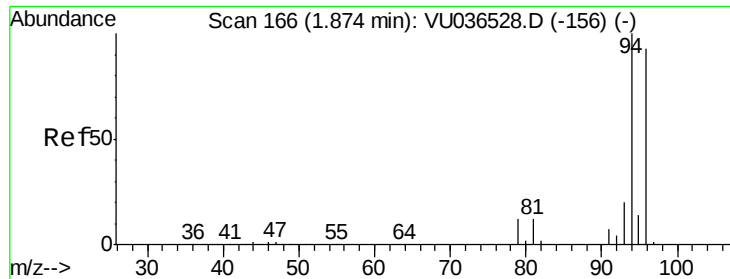
Tgt Ion: 62 Resp: 293368

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.2

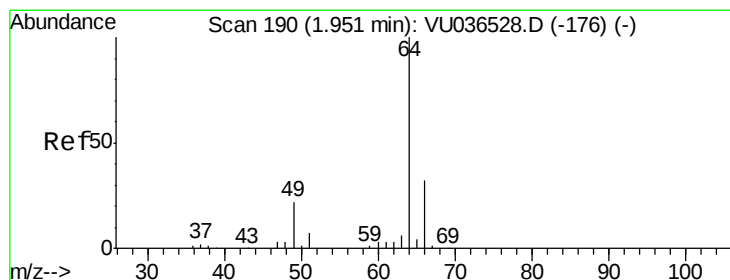
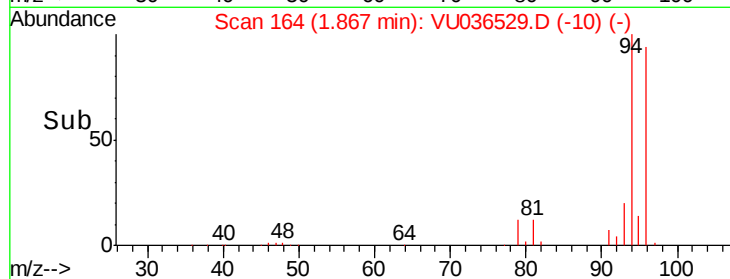
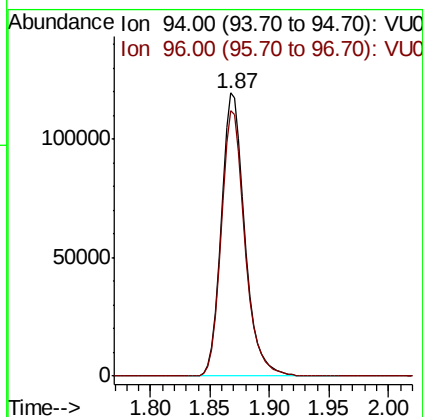
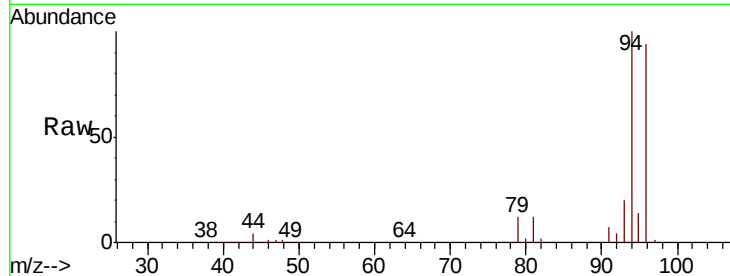




#5  
Bromomethane  
Concen: 20.399 ug/l  
RT: 1.87 min Scan# 164  
Delta R.T. -0.01 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

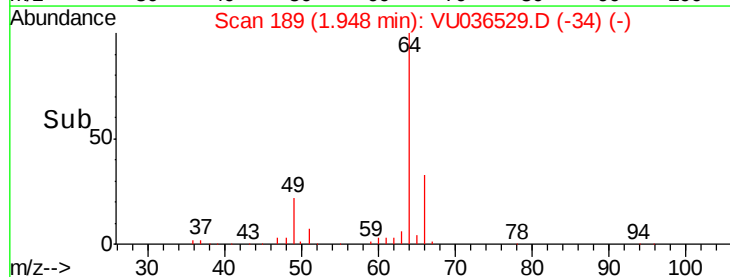
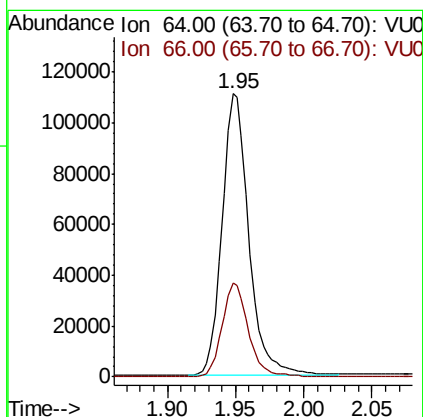
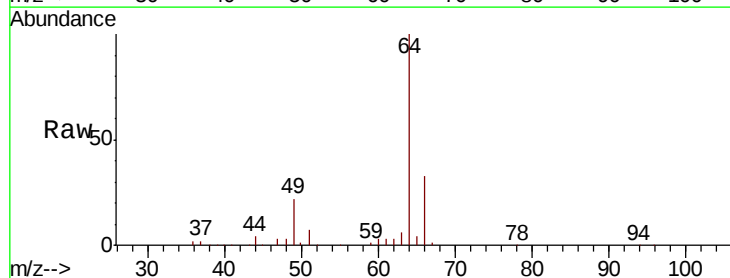
Instrument :  
MSVOA\_U  
ClientSampled :

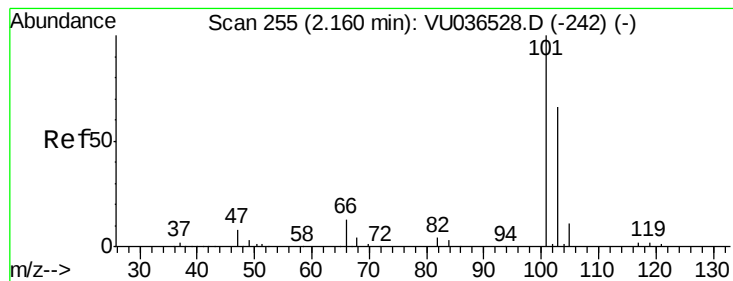
Tot Ion: 94 Resp: 163252  
Ion Ratio Lower Upper  
94 100  
96 93.9 74.6 112.0



#6  
Chloroethane  
Concen: 17.066 ug/l  
RT: 1.95 min Scan# 189  
Delta R.T. -0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 64 Resp: 150114  
Ion Ratio Lower Upper  
64 100  
66 33.3 25.5 38.3



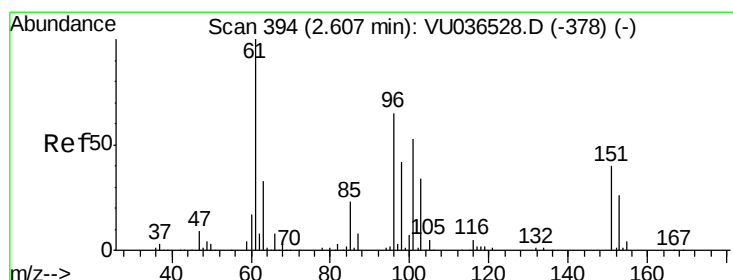
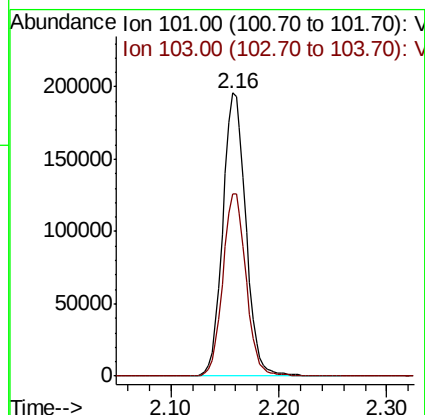
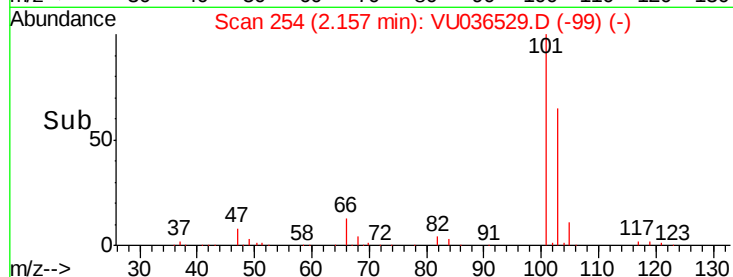
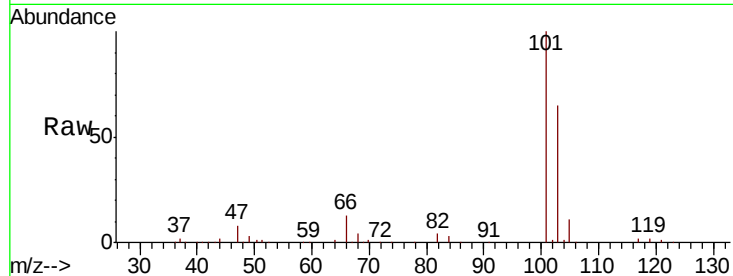


#7

Trichlorofluoromethane  
 Concen: 16.632 ug/l  
 RT: 2.16 min Scan# 254  
 Delta R.T. -0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :

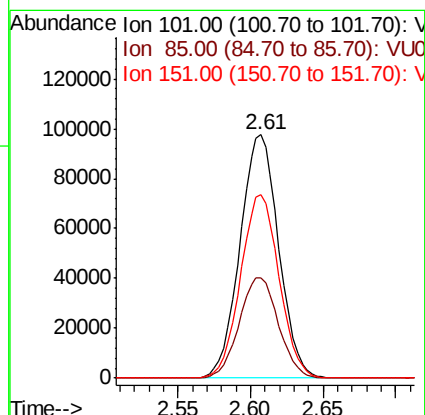
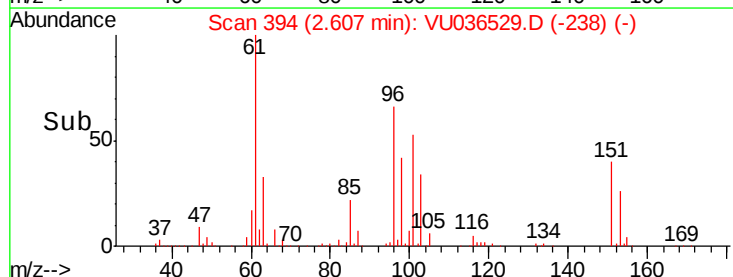
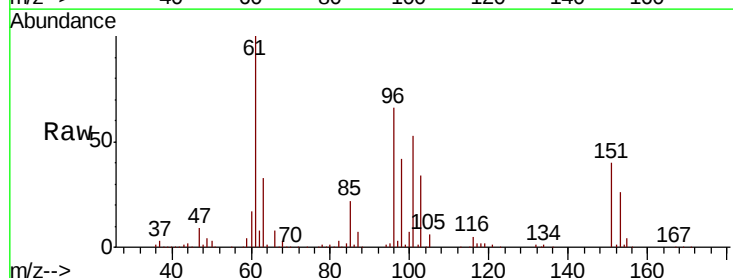
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 Ion Ratio Lower Upper  
 101 100  
 103 64.6 53.0 79.6

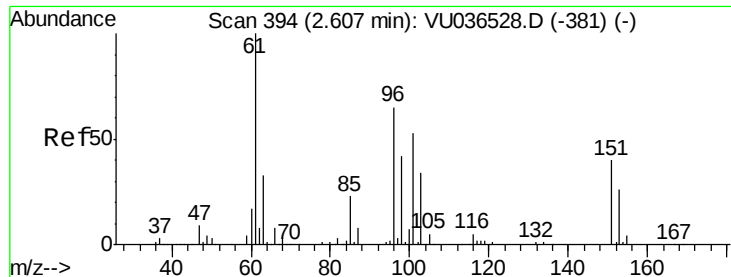


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 19.646 ug/l  
 RT: 2.61 min Scan# 394  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion:101 Resp: 179977  
 Ion Ratio Lower Upper  
 101 100  
 85 42.1 33.9 50.9  
 151 75.5 59.8 89.8





#9

1,1-Dichloroethene

Concen: 20.803 ug/l

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

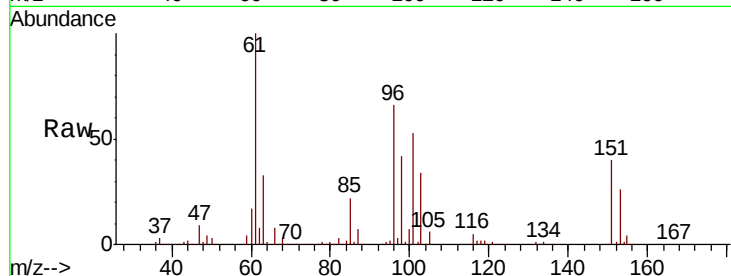
Tot Ion: 96 Resp: 194380

Ion Ratio Lower Upper

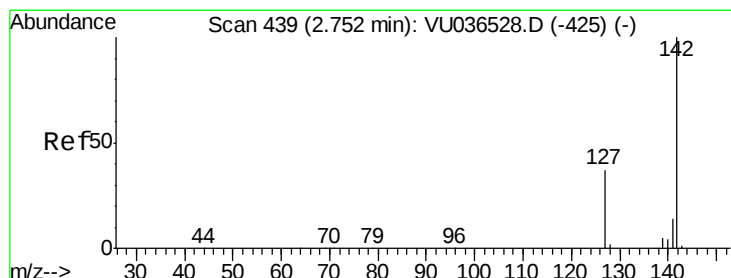
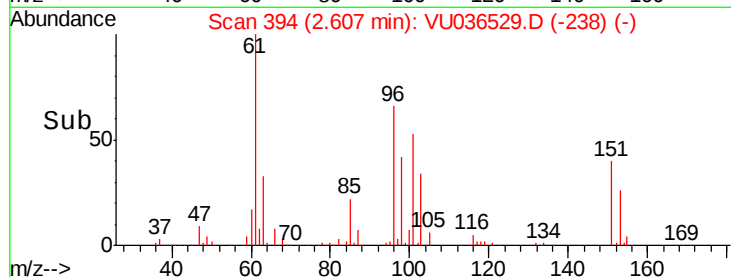
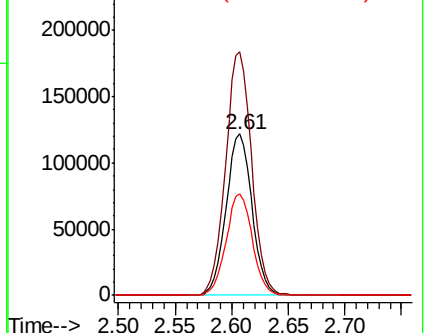
96 100

61 151.1 0.0 463.2

98 63.0 0.0 130.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0



#10

Iodomethane

Concen: 24.033 ug/l

RT: 2.75 min Scan# 439

Delta R.T. 0.00 min

Lab File: VU036529.D

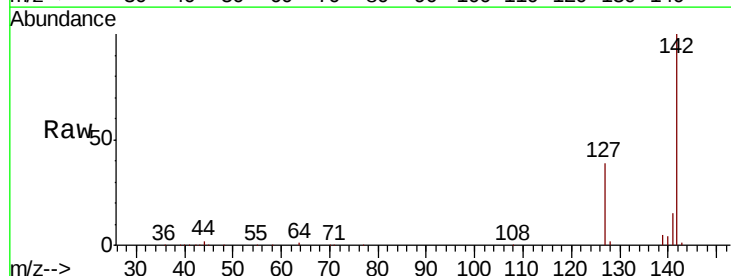
Acq: 22 Jan 2020 16:40

Tgt Ion:142 Resp: 268909

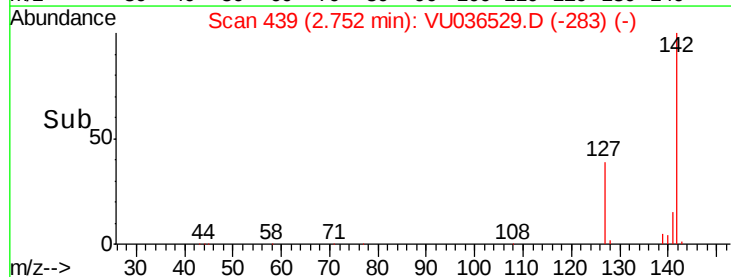
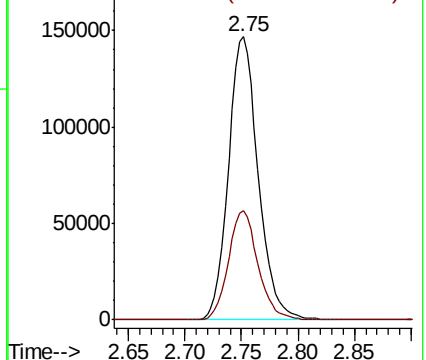
Ion Ratio Lower Upper

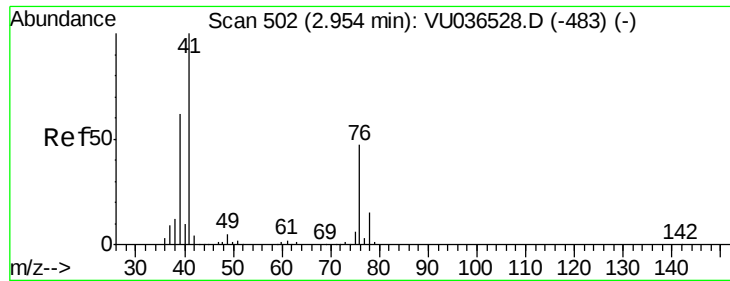
142 100

127 38.4 30.3 45.5



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V

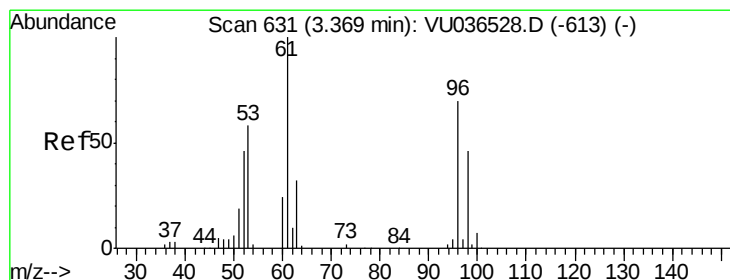
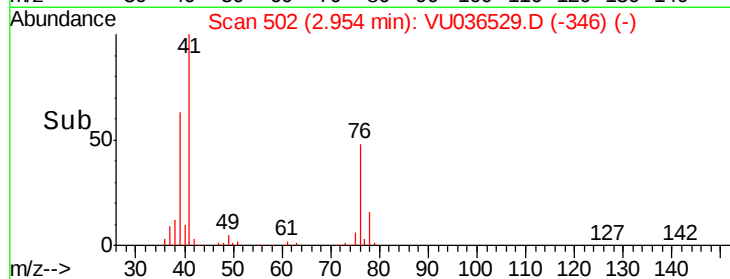
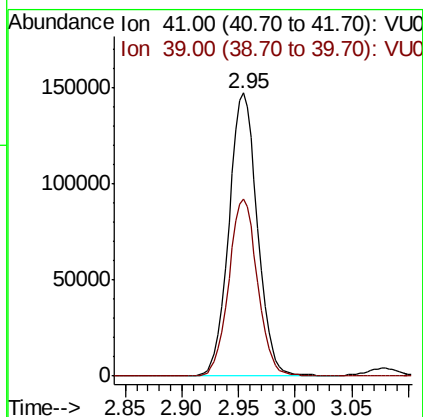
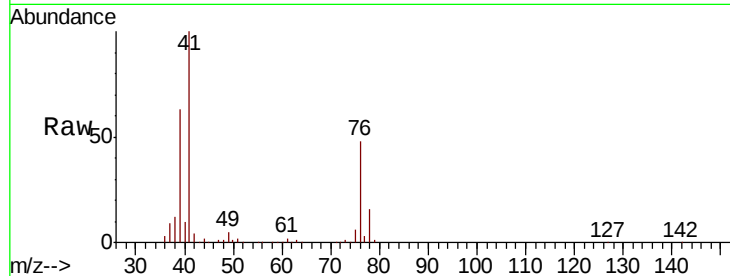




#11  
Allvl Chloride  
Concen: 14.021 ug/l  
RT: 2.95 min Scan# 502  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

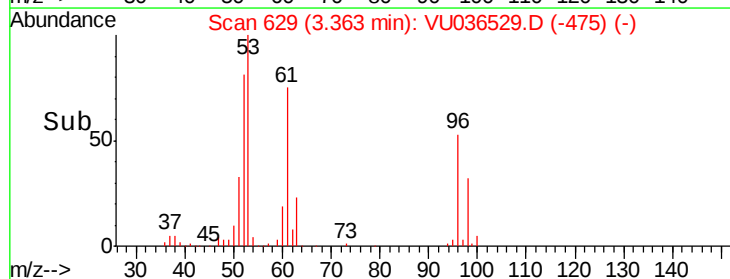
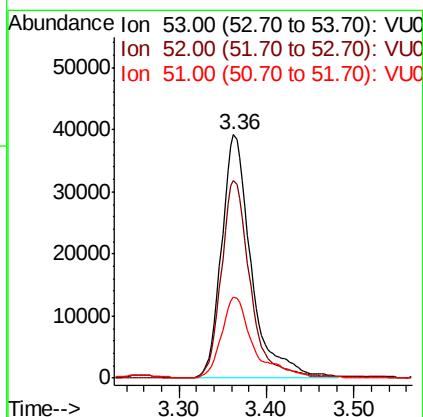
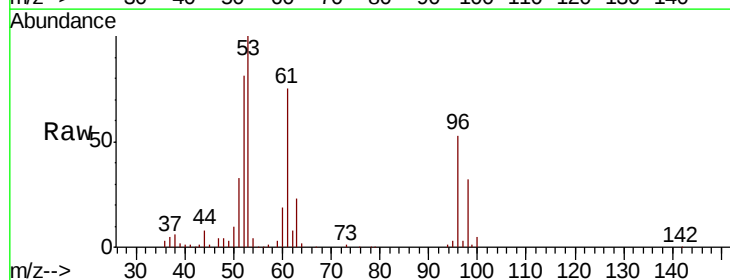
Instrument :  
MSVOA\_U  
ClientSampleId :

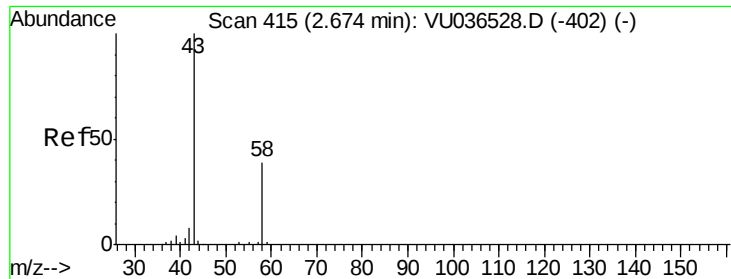
Tot Ion: 41 Resp: 256876  
Ion Ratio Lower Upper  
41 100  
39 63.1 50.7 76.1



#12  
Acrylonitrile  
Concen: 35.455 ug/l  
RT: 3.36 min Scan# 629  
Delta R.T. -0.01 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 53 Resp: 92945  
Ion Ratio Lower Upper  
53 100  
52 78.5 64.6 97.0  
51 35.7 27.2 40.8





#13

Acetone

Concen: 48.997 ug/l

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

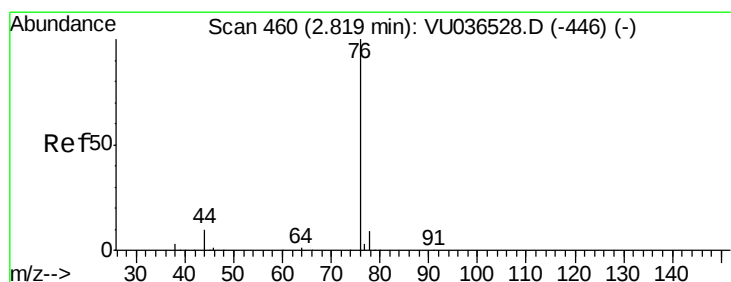
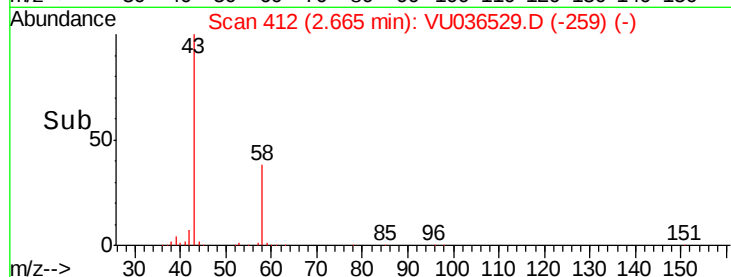
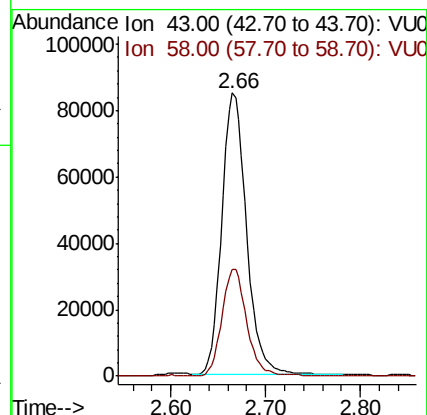
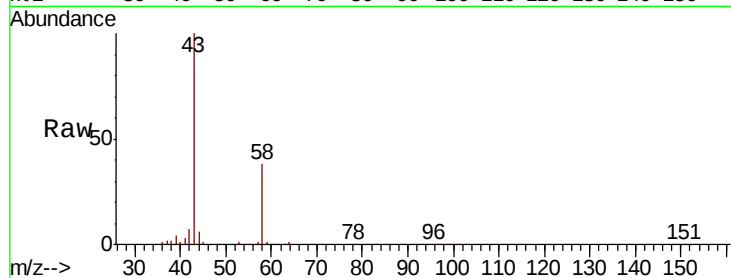
ClientSampled :

Tot Ion: 43 Resp: 154019

Ion Ratio Lower Upper

43 100

58 37.7 30.8 46.2



#14

Carbon Disulfide

Concen: 19.063 ug/l

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU036529.D

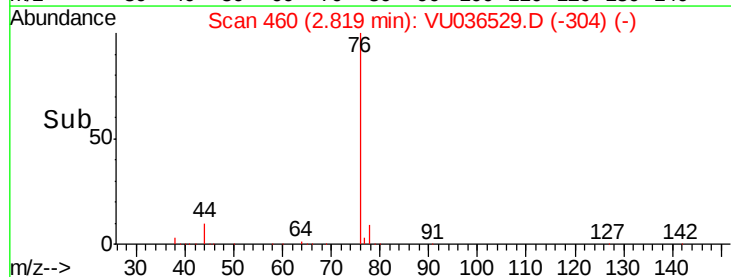
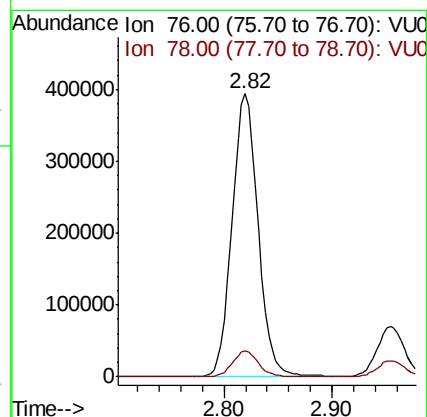
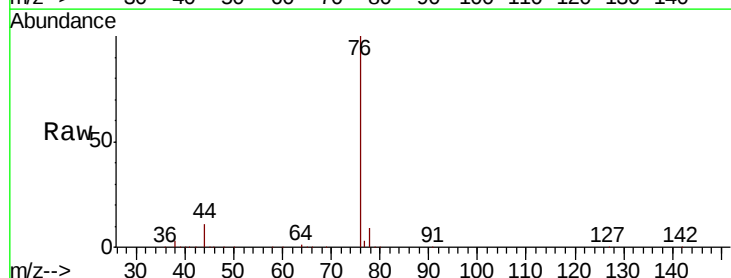
Acq: 22 Jan 2020 16:40

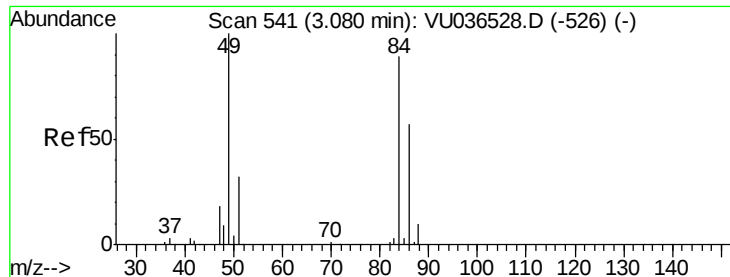
Tgt Ion: 76 Resp: 665183

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

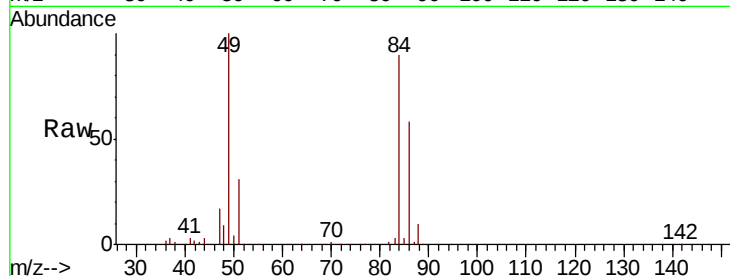




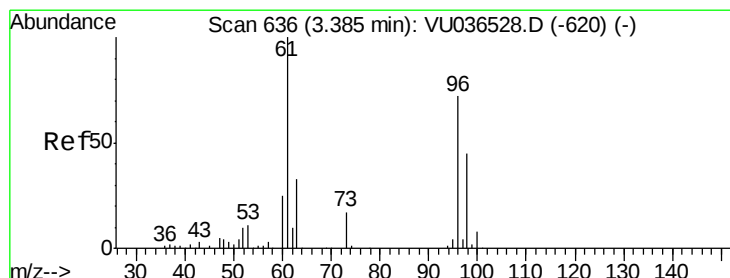
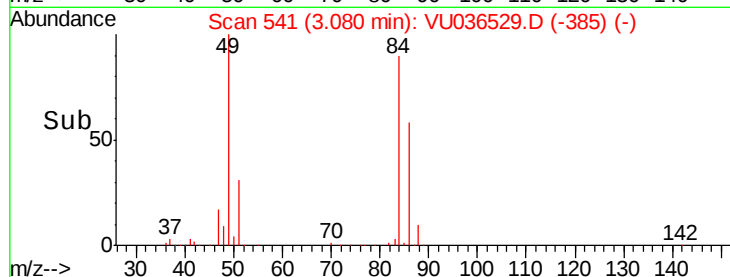
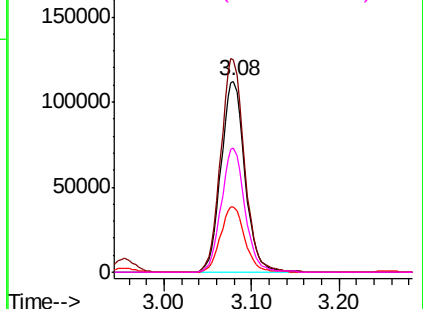
#15  
Methvlene Chloride  
Concen: 17.305 ug/l  
RT: 3.08 min Scan# 541  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 213022 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 111.4 | 89.7  | 134.5  |
| 51       | 34.3  | 0.0   | 71.6   |
| 86       | 64.9  | 51.4  | 77.2   |

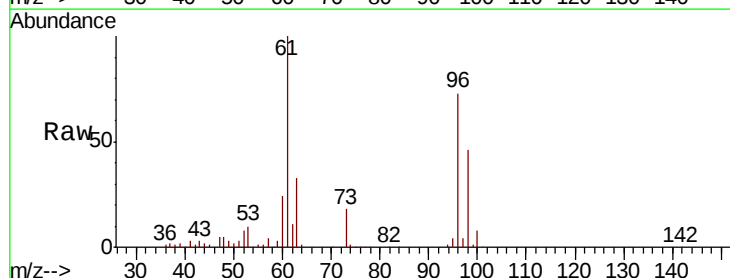


Abundance Ion 84.00 (83.70 to 84.70): VU0  
Ion 49.00 (48.70 to 49.70): VU0  
Ion 51.00 (50.70 to 51.70): VU0  
Ion 86.00 (85.70 to 86.70): VU0

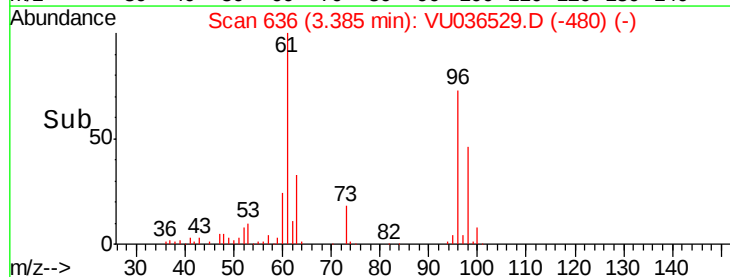
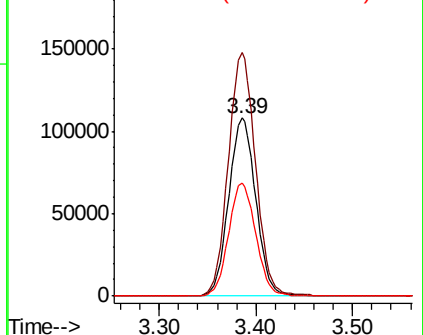


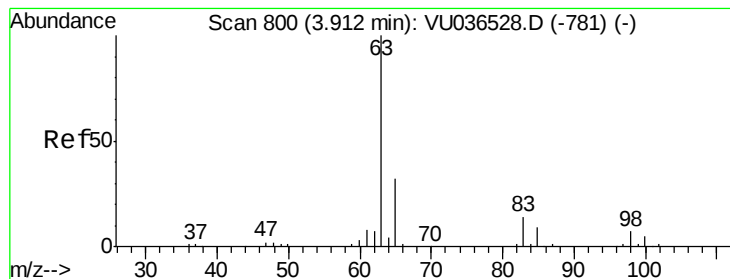
#16  
trans-1,2-Dichloroethene  
Concen: 20.223 ug/l  
RT: 3.39 min Scan# 636  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 211336 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 137.0 | 110.8 | 166.2  |
| 98       | 63.6  | 50.3  | 75.5   |



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0





#17

1,1-Dichloroethane

Concen: 18.540 ug/l

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

ClientSampleId :

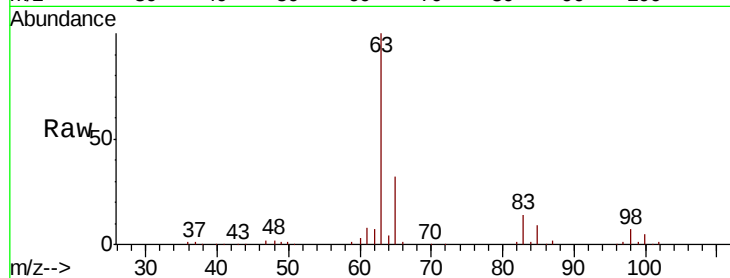
Tot Ion: 63 Resp: 346303

Ion Ratio Lower Upper

63 100

98 7.3 3.5 10.5

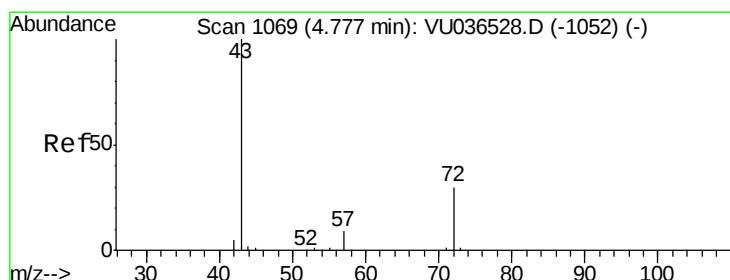
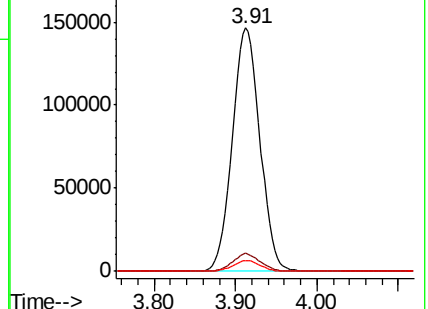
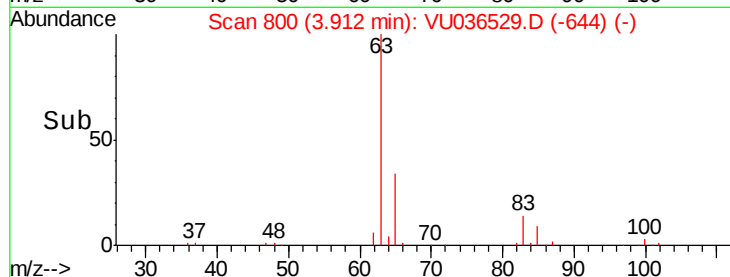
100 4.5 2.4 7.1



Abundance Ion 63.00 (62.70 to 63.70): VU036528.D (-781) (-)

Ion 98.00 (97.70 to 98.70): VU036528.D (-781) (-)

Ion 100.00 (99.70 to 100.70): VU036528.D (-781) (-)



#18

2-Butanone

Concen: 73.584 ug/l

RT: 4.77 min Scan# 1067

Delta R.T. -0.01 min

Lab File: VU036529.D

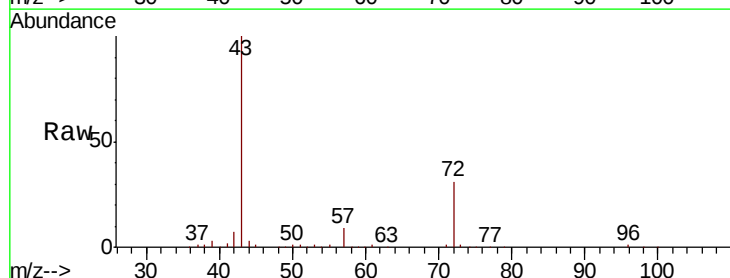
Acq: 22 Jan 2020 16:40

Tgt Ion: 43 Resp: 249112

Ion Ratio Lower Upper

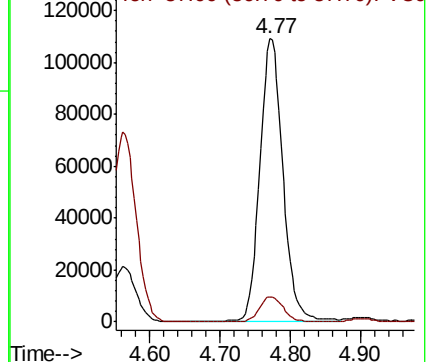
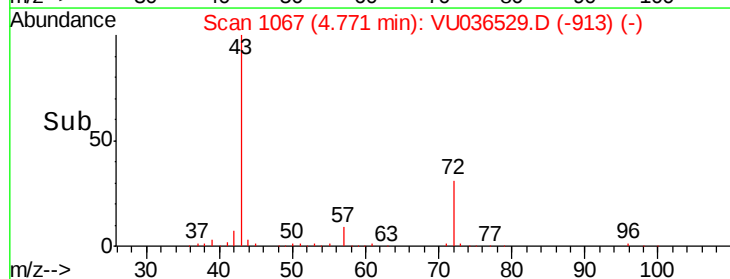
43 100

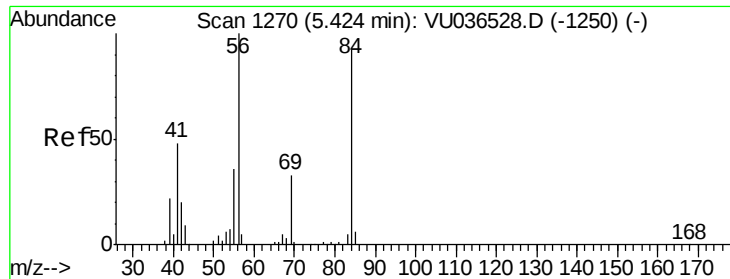
57 9.0 0.0 17.8



Abundance Ion 43.00 (42.70 to 43.70): VU036528.D (-1052) (-)

Ion 57.00 (56.70 to 57.70): VU036528.D (-1052) (-)

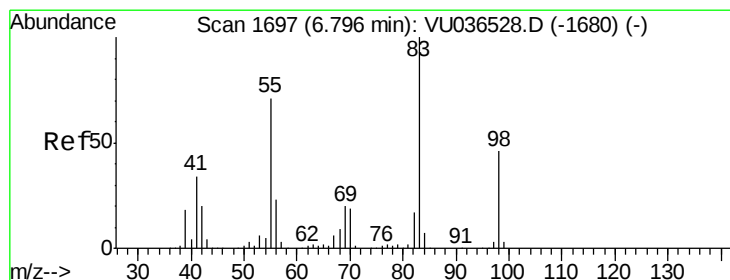
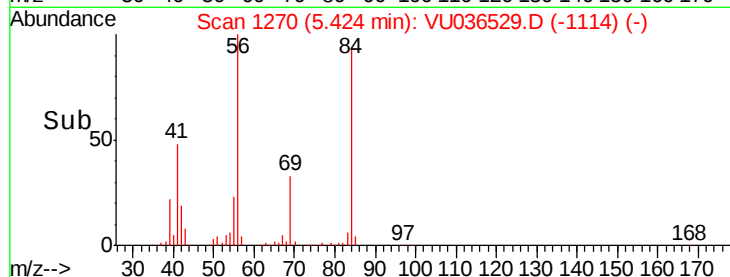
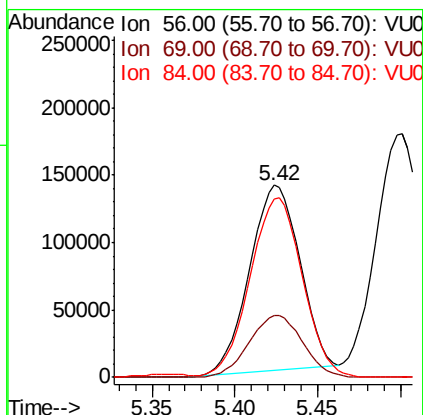
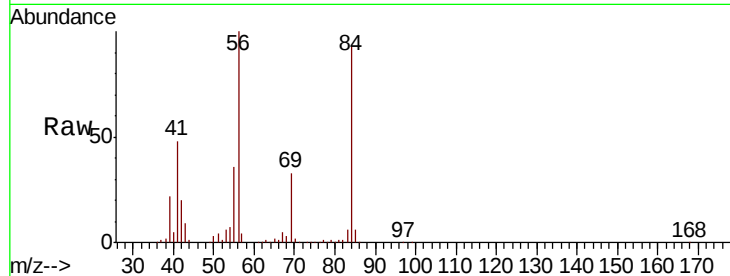




#19  
Cyclohexane  
Concen: 15.903 ug/l  
RT: 5.42 min Scan# 1270  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

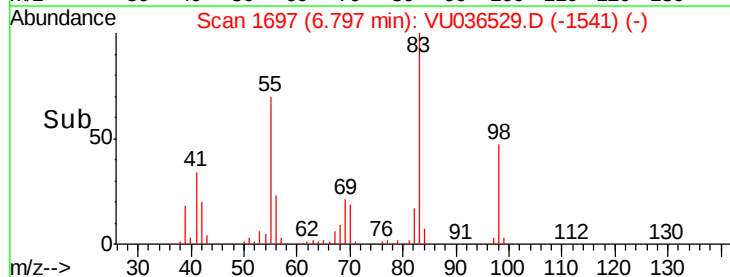
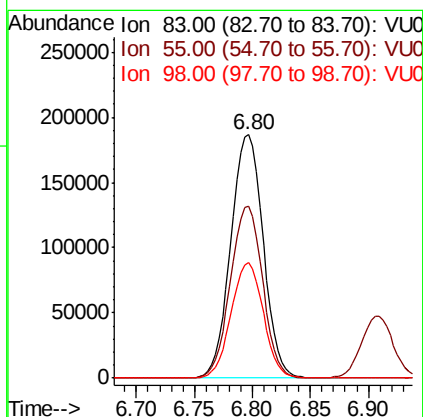
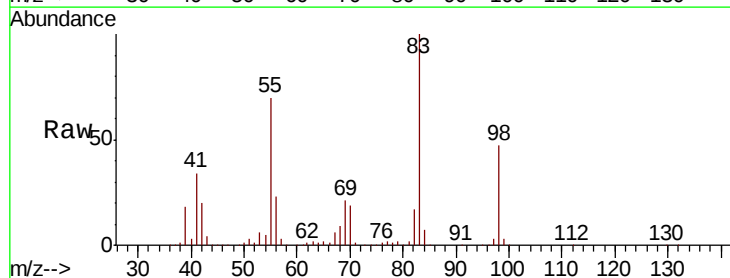
Instrument :  
MSVOA\_U  
ClientSampleId :

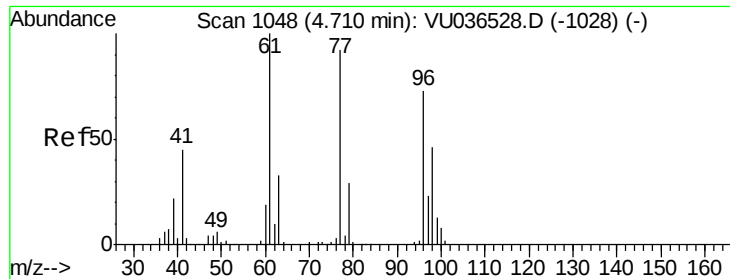
Tot Ion: 56 Resp: 288641  
Ion Ratio Lower Upper  
56 100  
69 35.8 26.2 39.2  
84 100.1 72.8 109.2



#20  
Methylcyclohexane  
Concen: 20.144 ug/l  
RT: 6.80 min Scan# 1697  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 83 Resp: 362627  
Ion Ratio Lower Upper  
83 100  
55 70.1 56.6 85.0  
98 47.1 37.5 56.3

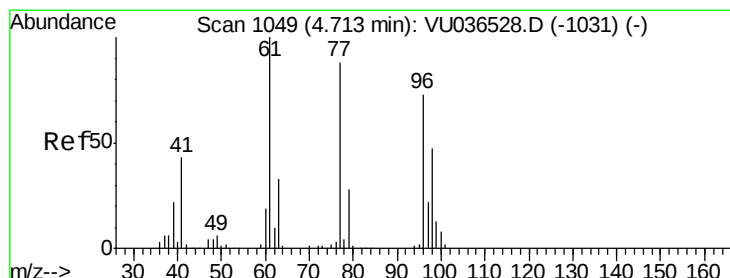
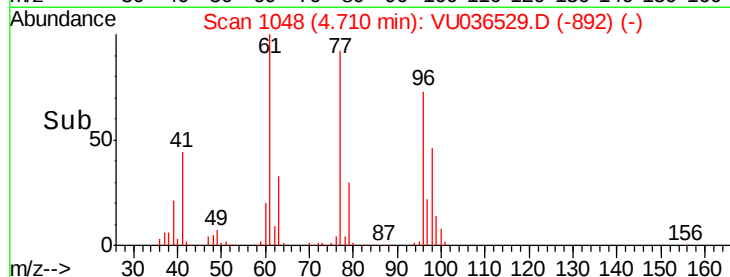
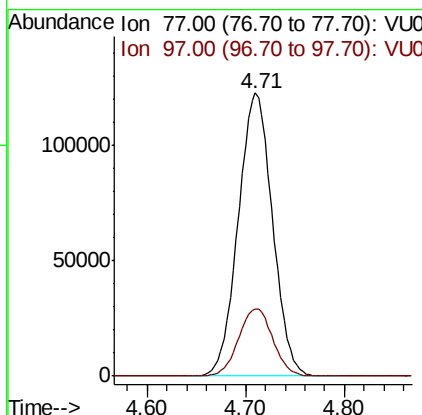
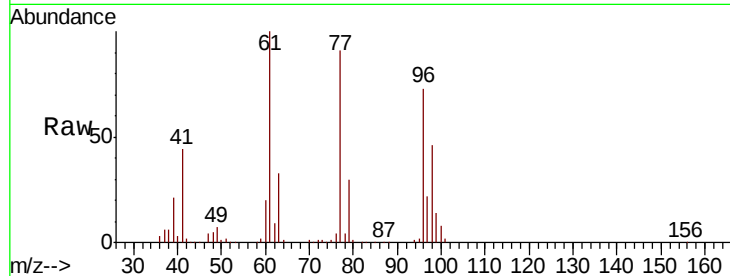




#21  
 2,2-Dichloropropane  
 Concen: 17.448 ug/l  
 RT: 4.71 min Scan# 1048  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

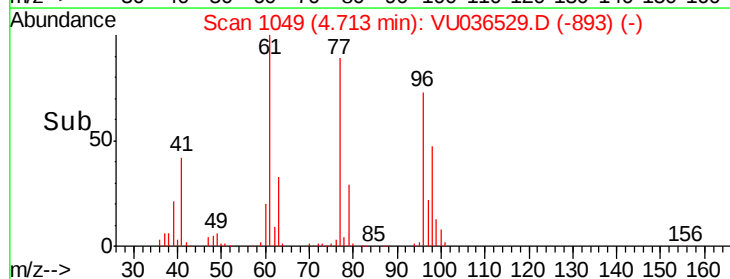
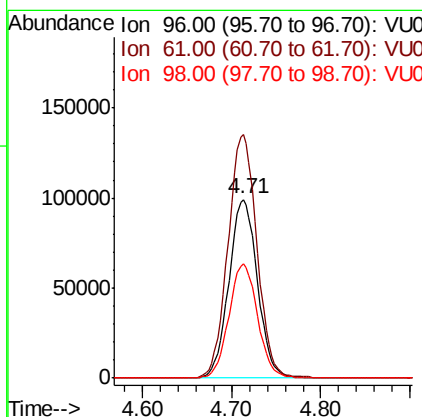
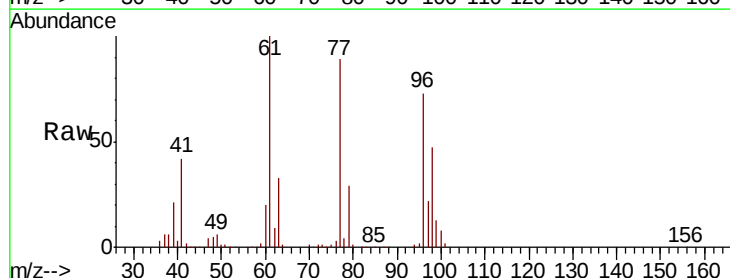
Instrument :  
 MSVOA\_U  
 ClientSampled :

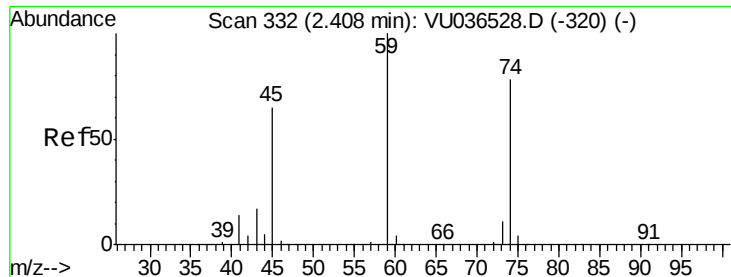
Tot Ion: 77 Resp: 294688  
 Ion Ratio Lower Upper  
 77 100  
 97 23.9 19.0 28.4



#22  
 cis-1,2-Dichloroethene  
 Concen: 20.732 ug/l  
 RT: 4.71 min Scan# 1049  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion: 96 Resp: 219533  
 Ion Ratio Lower Upper  
 96 100  
 61 138.9 0.0 342.0  
 98 64.2 32.0 96.0

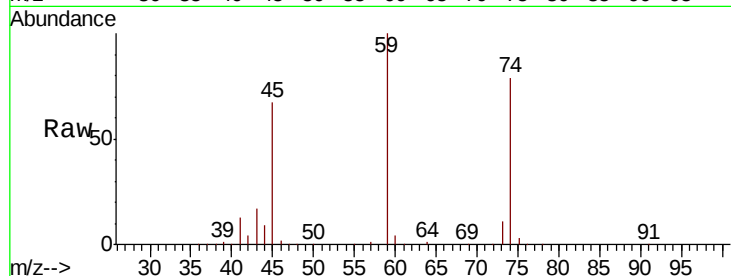




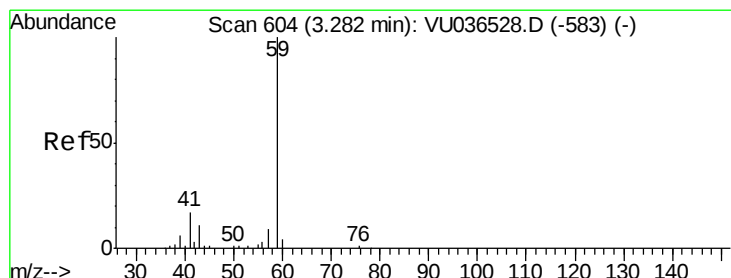
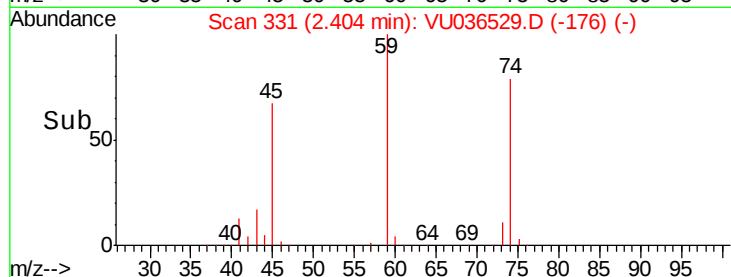
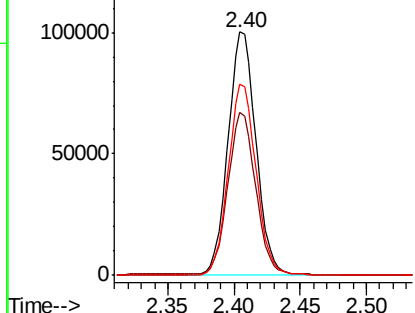
#23  
Diethyl Ether  
Concen: 18.047 ug/l  
RT: 2.40 min Scan# 331  
Delta R.T. -0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 59 Resp: 147038  
Ion Ratio Lower Upper  
59 100  
45 66.3 52.4 78.6  
74 78.5 62.1 93.1

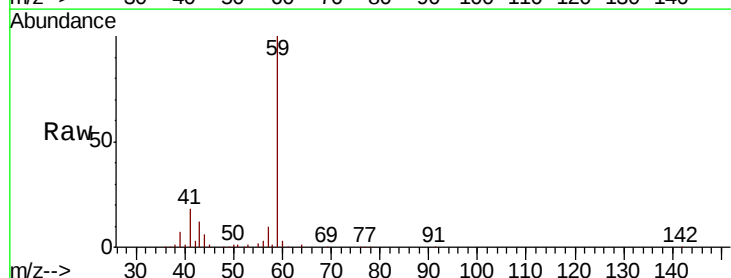


Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 45.00 (44.70 to 45.70): VU0  
Ion 74.00 (73.70 to 74.70): VU0

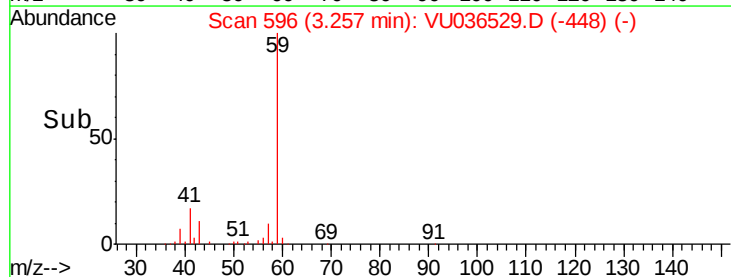
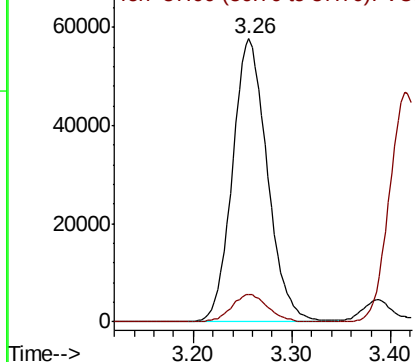


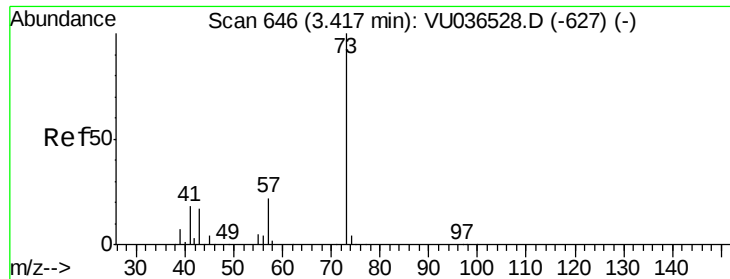
#24  
tert-Butyl Alcohol  
Concen: 168.199 ug/l  
RT: 3.26 min Scan# 596  
Delta R.T. -0.03 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 59 Resp: 141785  
Ion Ratio Lower Upper  
59 100  
57 10.1 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0



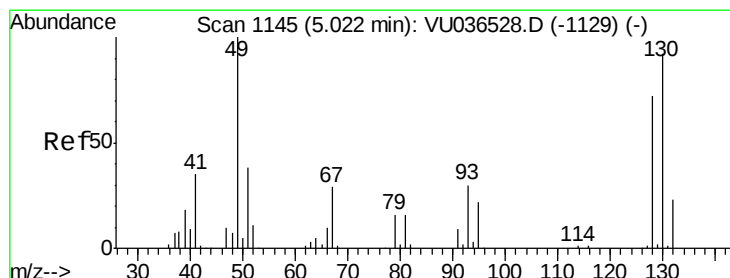
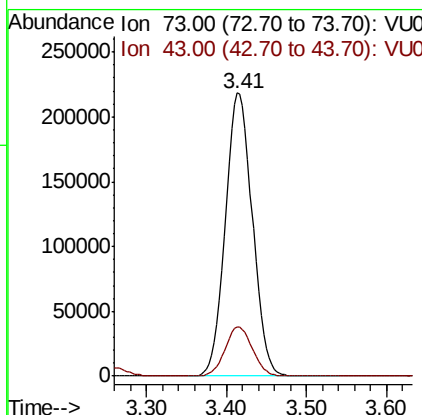
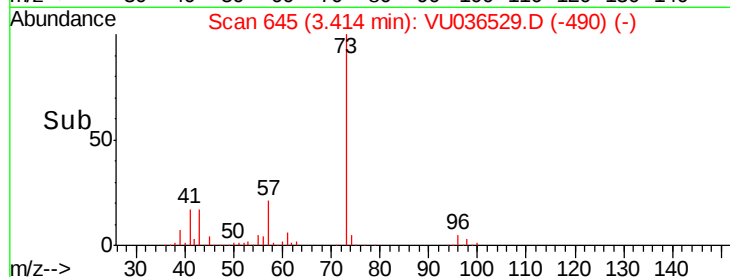
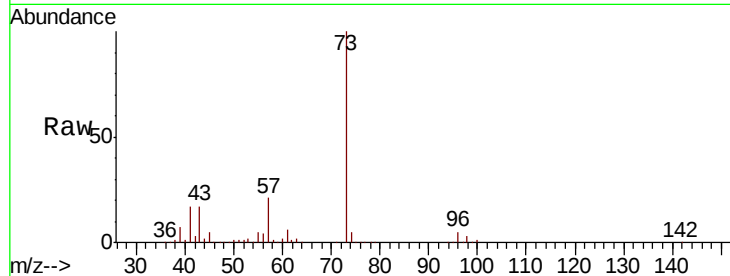


#25

Methyl tert-Butyl Ether  
 Concen: 17.601 ug/l  
 RT: 3.41 min Scan# 645  
 Delta R.T. -0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Instrument :  
 MSVOA\_U  
 ClientSampled :

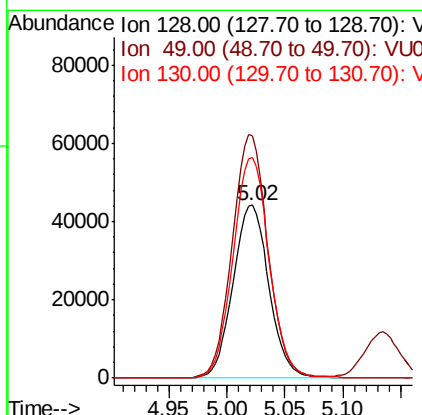
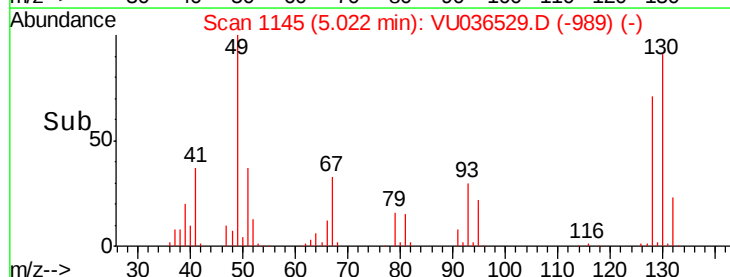
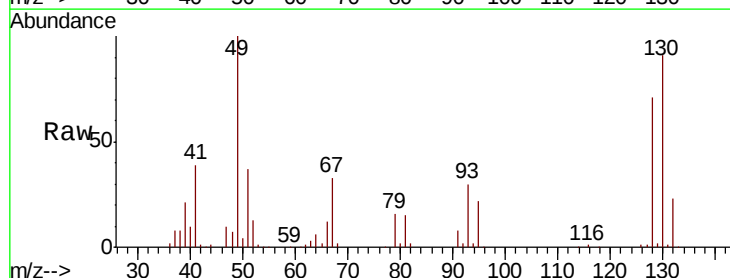
Tot Ion: 73 Resp: 503229  
 Ion Ratio Lower Upper  
 73 100  
 43 17.4 14.5 21.7

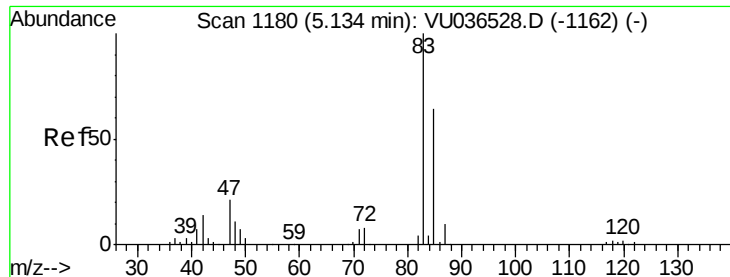


#26

Bromochloromethane  
 Concen: 22.379 ug/l  
 RT: 5.02 min Scan# 1145  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion: 128 Resp: 94963  
 Ion Ratio Lower Upper  
 128 100  
 49 140.0 0.0 286.2  
 130 128.8 104.3 156.5

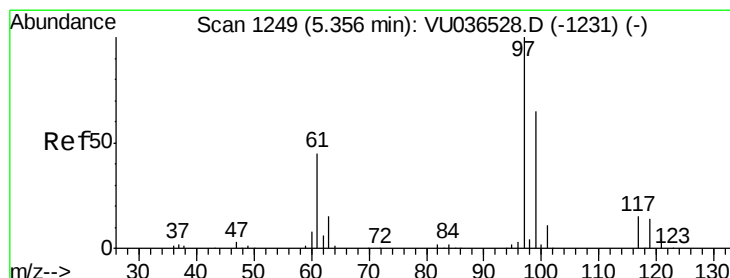
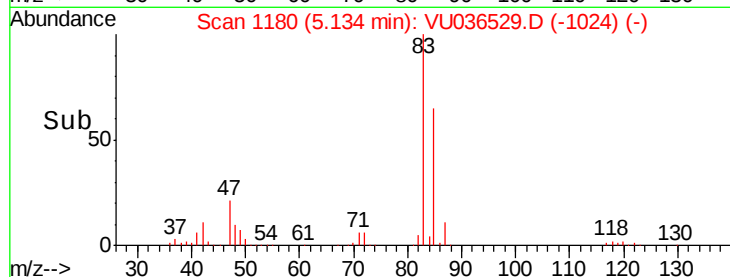
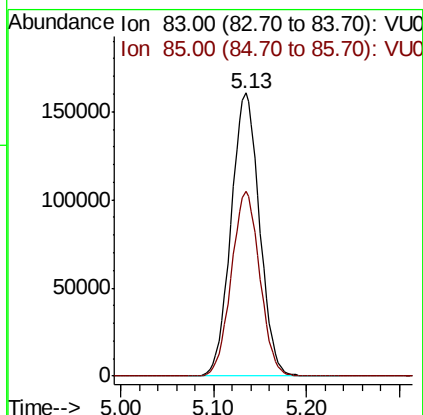
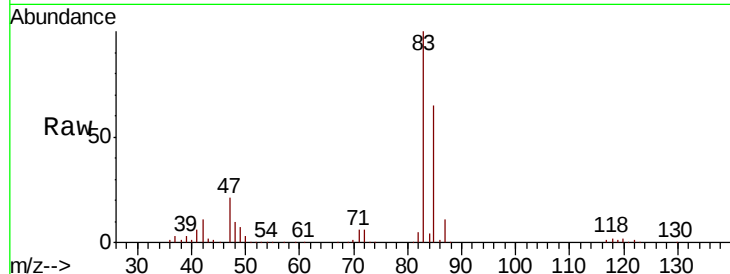




#27  
Chloroform  
Concen: 18.353 ug/l  
RT: 5.13 min Scan# 1180  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

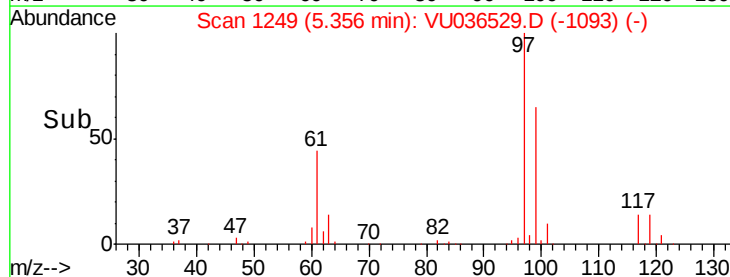
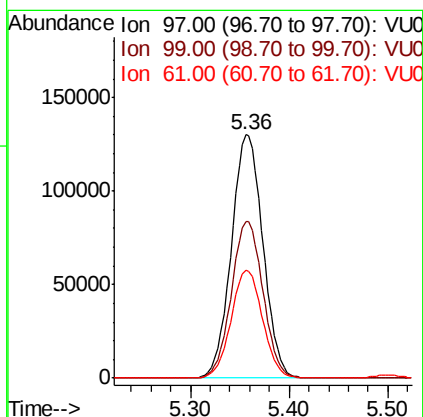
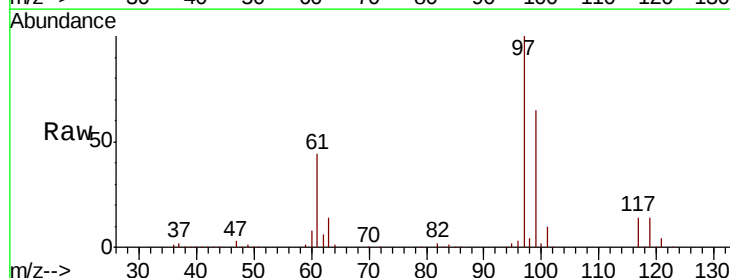
Instrument :  
MSVOA\_U  
ClientSampleId :

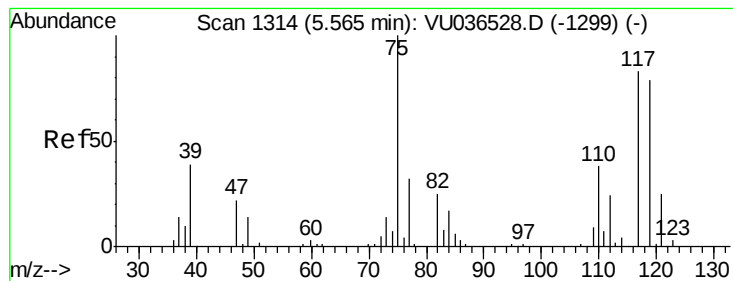
Tot Ion: 83 Resp: 341295  
Ion Ratio Lower Upper  
83 100  
85 65.1 0.0 129.0



#28  
1,1,1-Trichloroethane  
Concen: 17.597 ug/l  
RT: 5.36 min Scan# 1249  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 97 Resp: 289717  
Ion Ratio Lower Upper  
97 100  
99 64.5 32.1 96.3  
61 44.6 22.7 68.0





#29

1,1-Dichloropropene

Concen: 18.626 ug/l

RT: 5.57 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

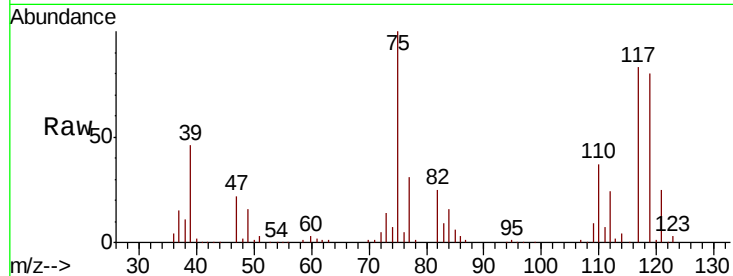
Tot Ion: 75 Resp: 280194

Ion Ratio Lower Upper

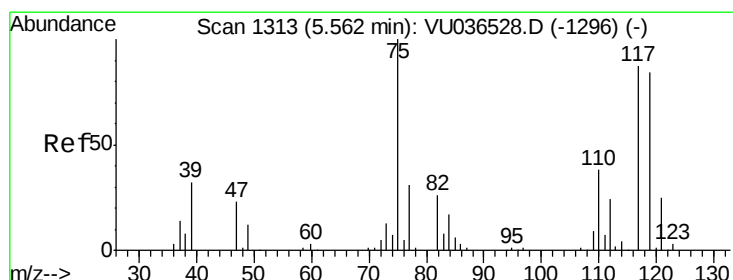
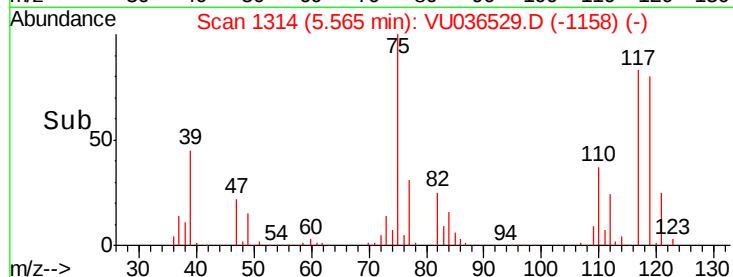
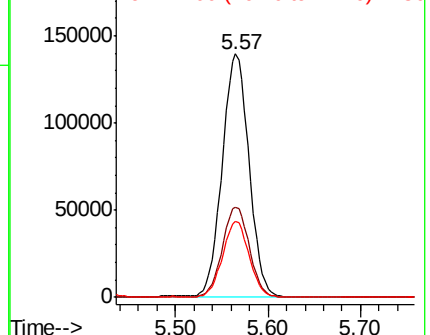
75 100

110 37.3 18.6 55.8

77 30.7 25.0 37.4



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 110.00 (109.70 to 110.70): V  
Ion 77.00 (76.70 to 77.70): VU0



#30

Carbon Tetrachloride

Concen: 18.173 ug/l

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

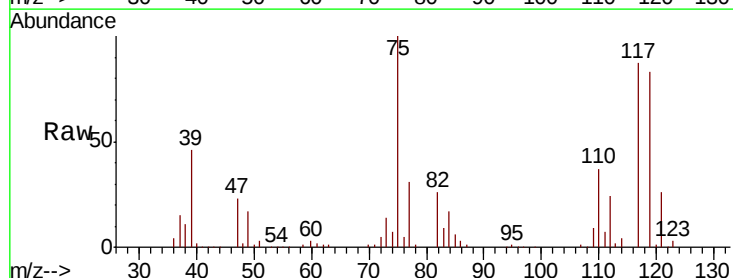
Tgt Ion: 117 Resp: 251621

Ion Ratio Lower Upper

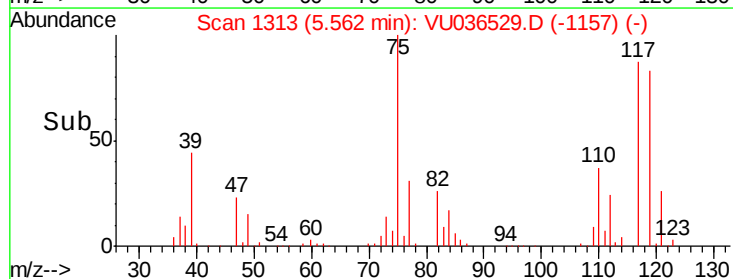
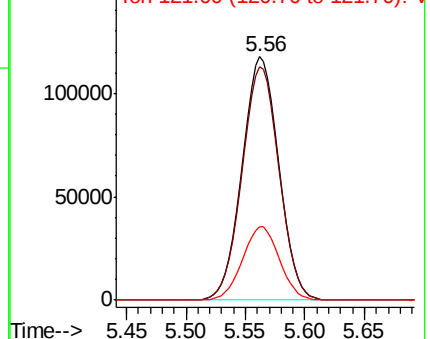
117 100

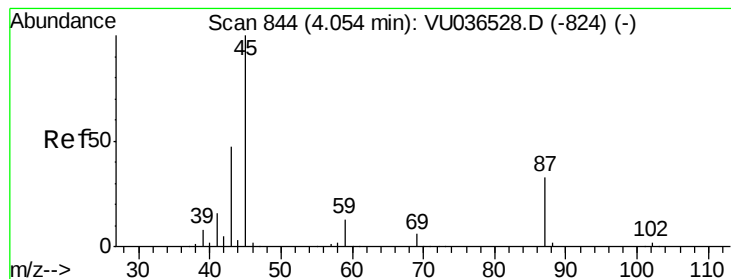
119 95.9 77.0 115.6

121 30.2 23.3 34.9



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V





#31

Isopropyl Ether

Concen: 16.980 ug/l

RT: 4.05 min Scan# 844

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

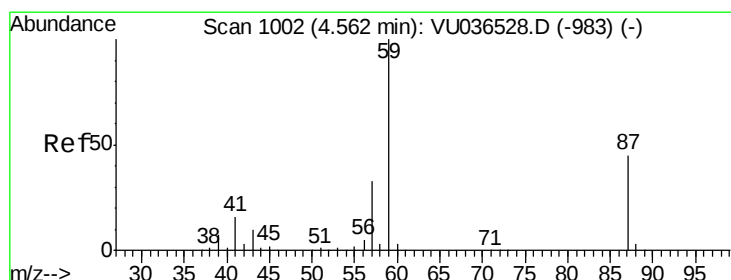
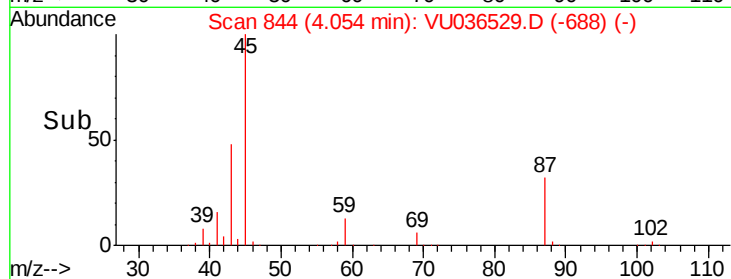
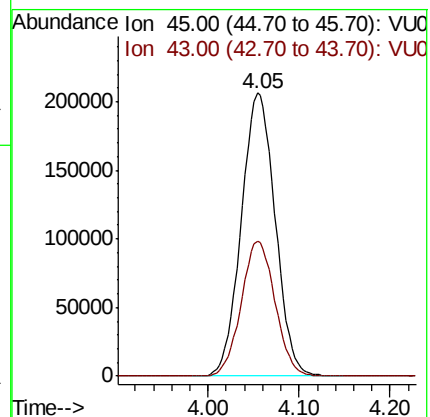
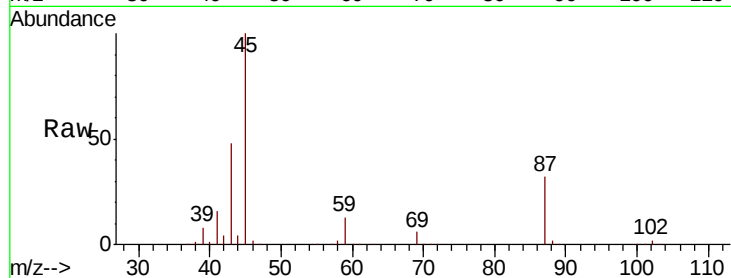
ClientSampled :

Tot Ion: 45 Resp: 533645

Ion Ratio Lower Upper

45 100

43 47.7 24.0 72.0



#32

Ethyl-t-butyl ether

Concen: 17.977 ug/l

RT: 4.56 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VU036529.D

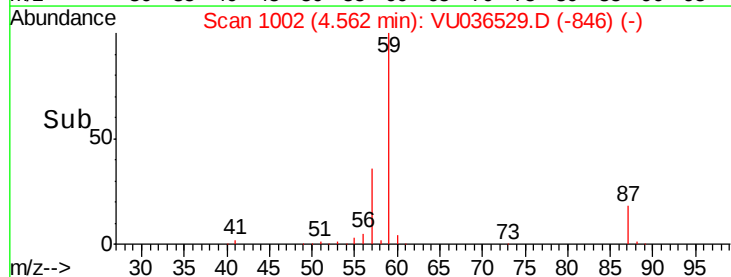
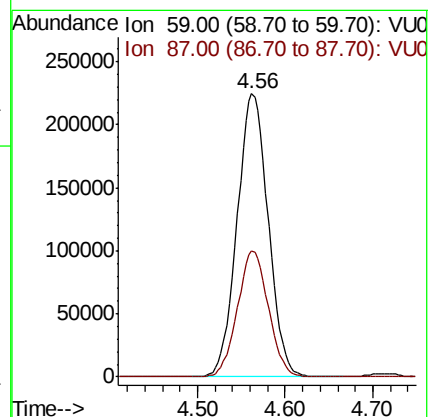
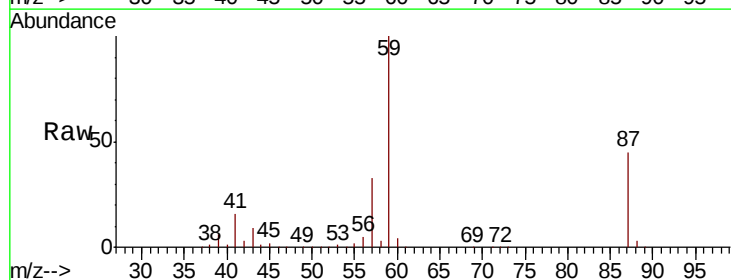
Acq: 22 Jan 2020 16:40

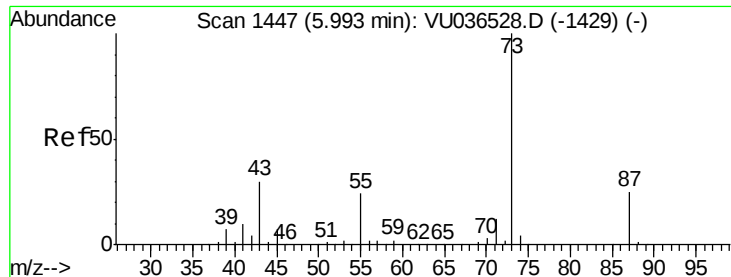
Tgt Ion: 59 Resp: 552708

Ion Ratio Lower Upper

59 100

87 44.4 35.1 52.7

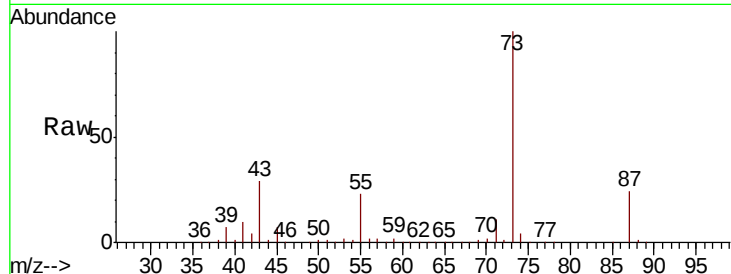




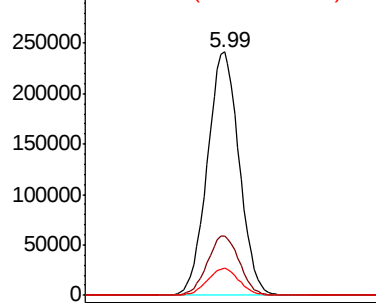
#33  
Tert-Butyl methyl ether  
Concen: 18.016 ug/l  
RT: 5.99 min Scan# 1447  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

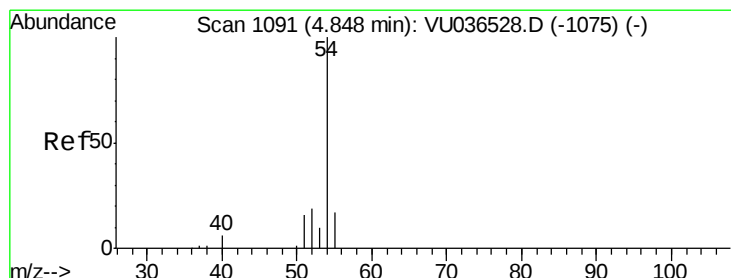
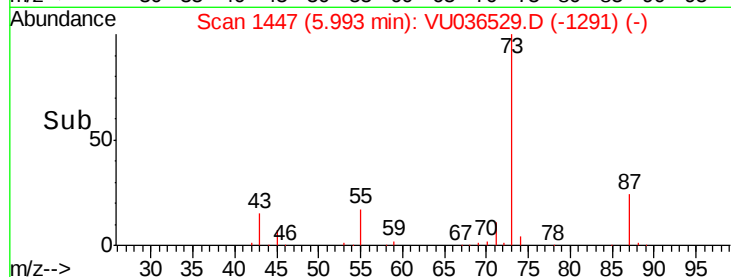
Tot Ion: 73 Resp: 503382  
Ion Ratio Lower Upper  
73 100  
87 24.7 19.8 29.6  
71 11.2 9.1 13.7



Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 87.00 (86.70 to 87.70): VU0  
Ion 71.00 (70.70 to 71.70): VU0

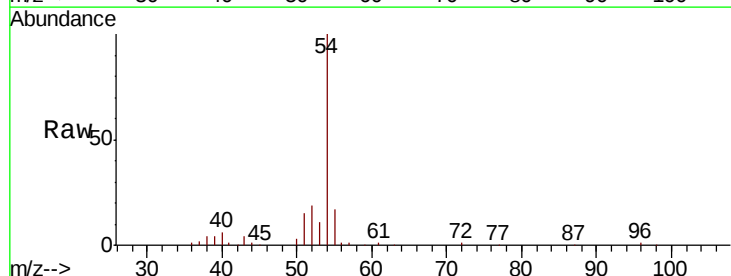


Time-->

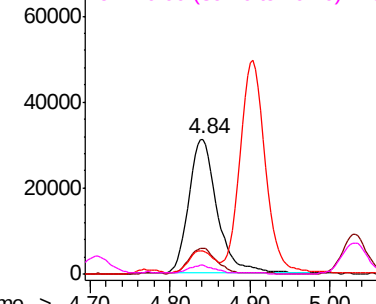


#34  
Propionitrile  
Concen: 90.419 ug/l  
RT: 4.84 min Scan# 1089  
Delta R.T. -0.01 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

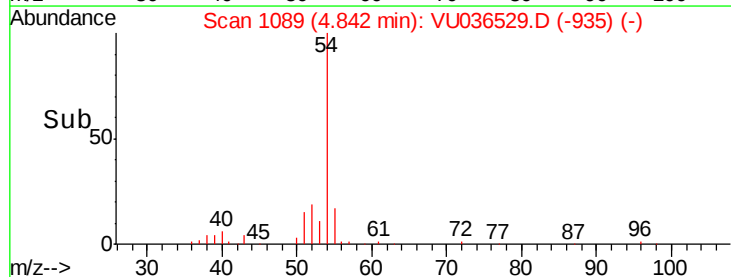
Tgt Ion: 54 Resp: 76361  
Ion Ratio Lower Upper  
54 100  
52 18.2 15.2 22.8  
55 15.6 9.5 14.3#  
40 5.3 4.6 6.8

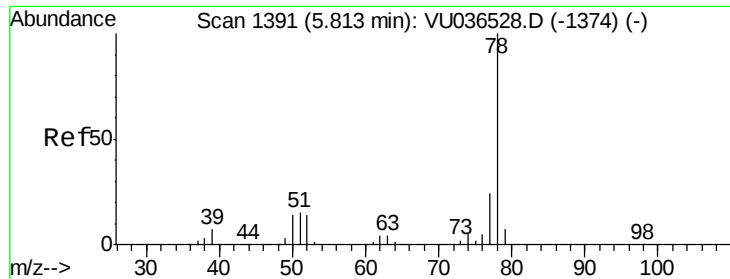


Abundance Ion 54.00 (53.70 to 54.70): VU0  
Ion 52.00 (51.70 to 52.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 40.00 (39.70 to 40.70): VU0



Time-->

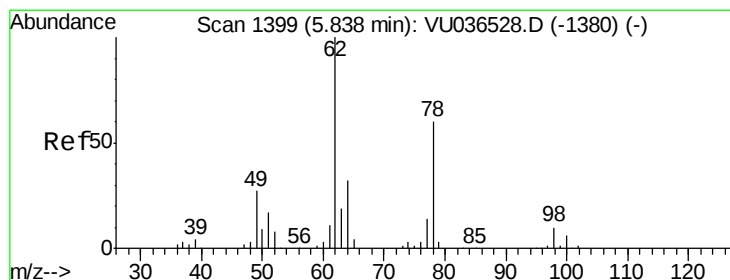
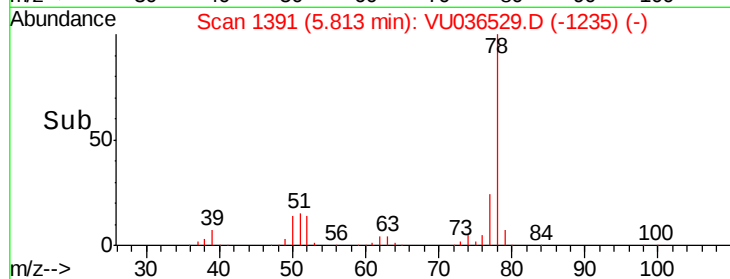
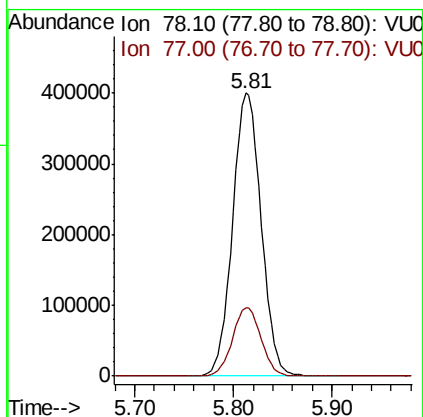
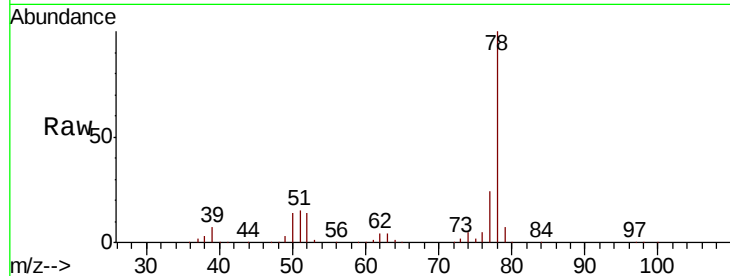




#35  
Benzene  
Concen: 19.131 ug/l  
RT: 5.81 min Scan# 1391  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

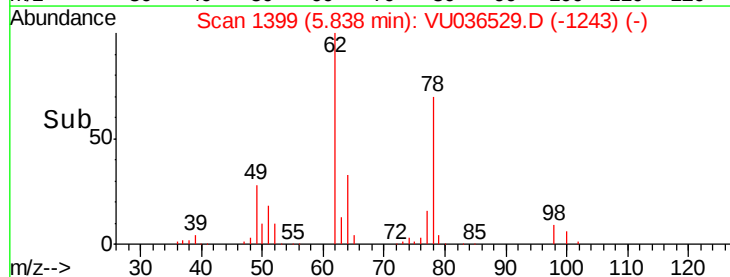
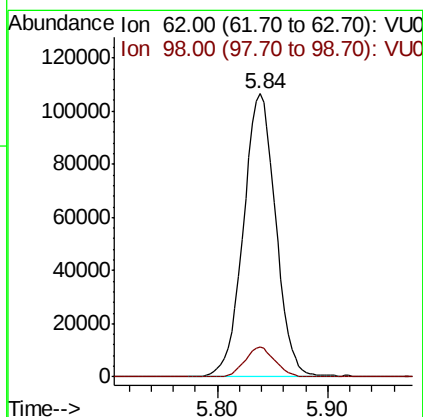
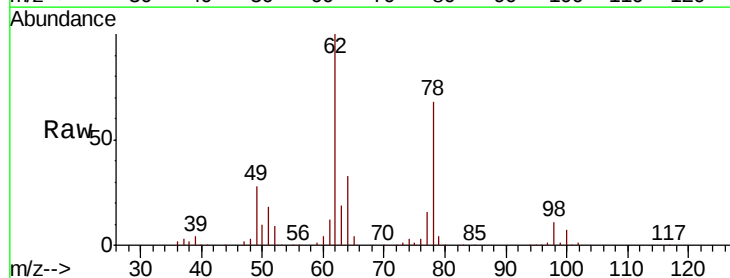
Instrument :  
MSVOA\_U  
ClientSampled :

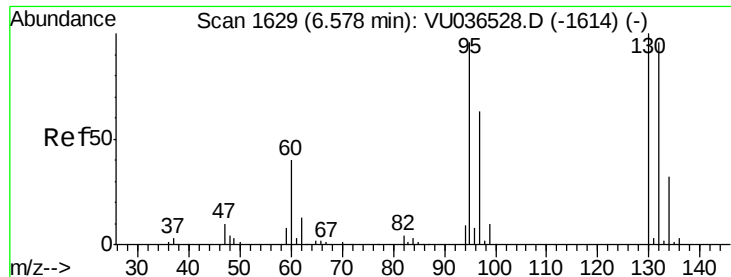
Tot Ion: 78 Resp: 804735  
Ion Ratio Lower Upper  
78 100  
77 24.3 19.4 29.0



#36  
1,2-Dichloroethane  
Concen: 16.081 ug/l  
RT: 5.84 min Scan# 1399  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 62 Resp: 216654  
Ion Ratio Lower Upper  
62 100  
98 9.9 7.8 11.8





#37

Trichloroethene

Concen: 21.846 ug/l

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

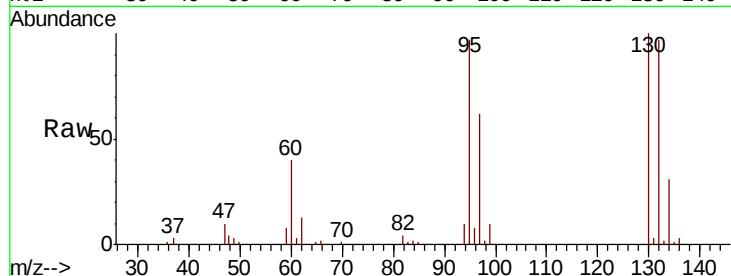
ClientSampleId :

Tot Ion:130 Resp: 223127

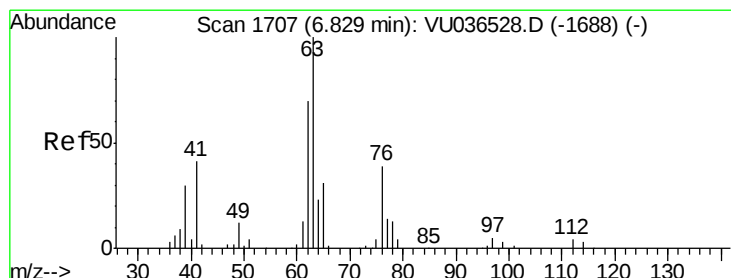
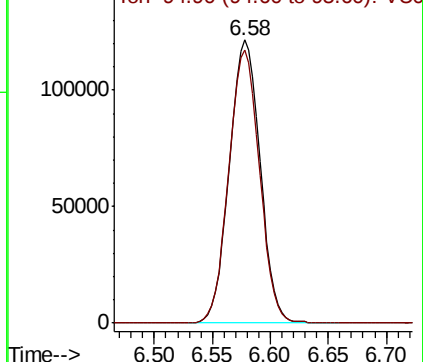
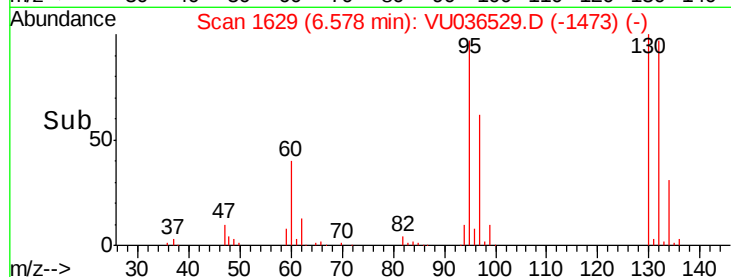
Ion Ratio Lower Upper

130 100

95 96.5 77.0 115.4



Abundance Ion 129.90 (129.60 to 130.60): VU036529.D (-1473) (-)



#38

1,2-Dichloropropane

Concen: 18.472 ug/l

RT: 6.83 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VU036529.D

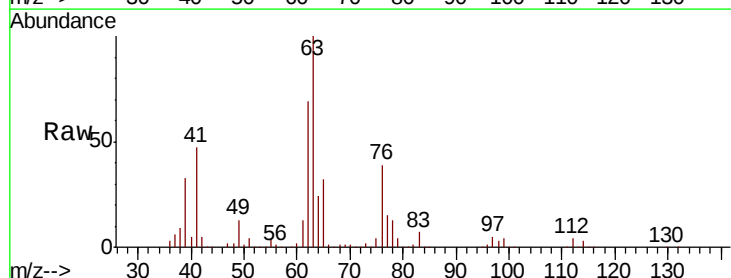
Acq: 22 Jan 2020 16:40

Tgt Ion: 63 Resp: 204025

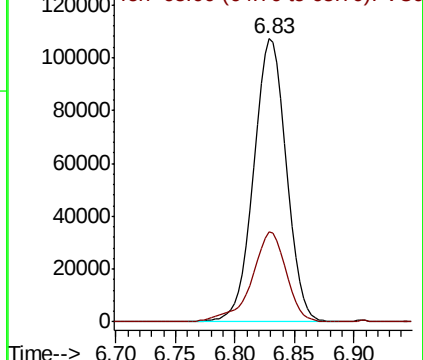
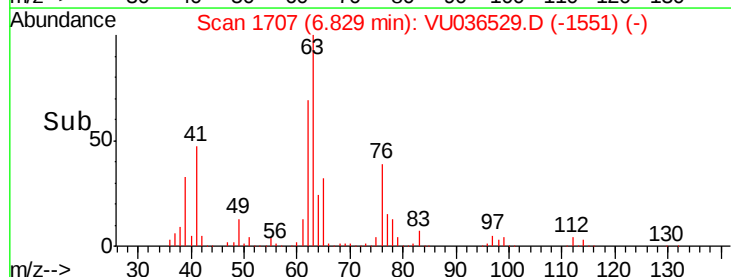
Ion Ratio Lower Upper

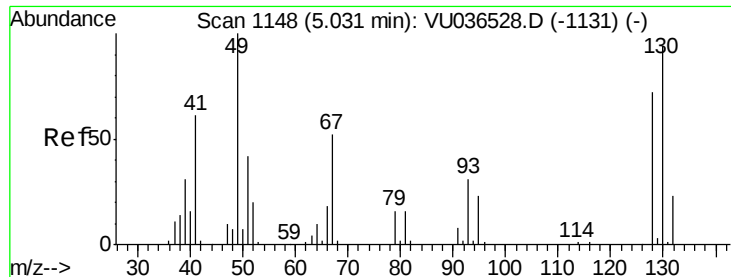
63 100

65 31.8 24.7 37.1



Abundance Ion 63.00 (62.70 to 63.70): VU036529.D (-1551) (-)

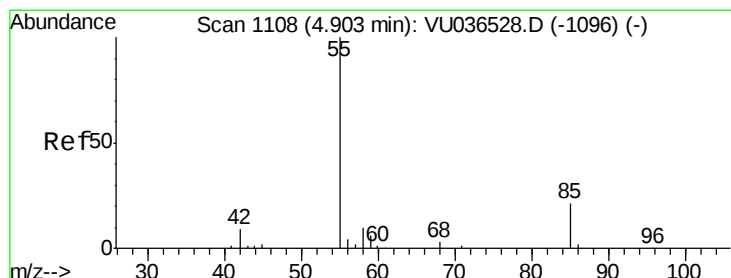
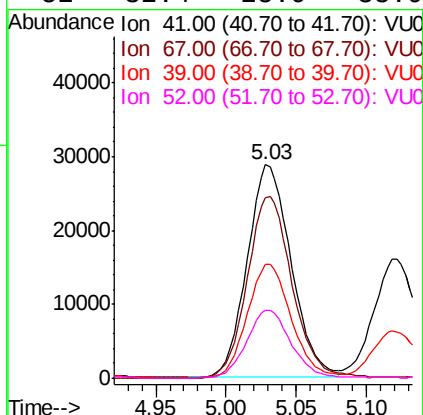
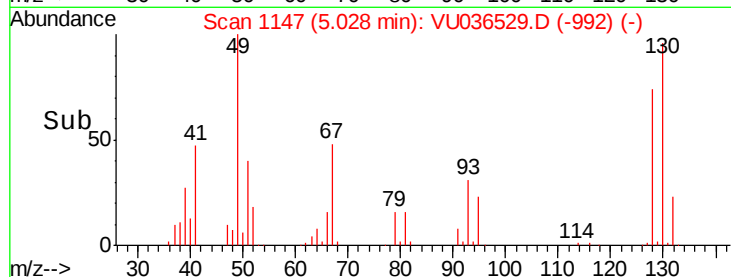
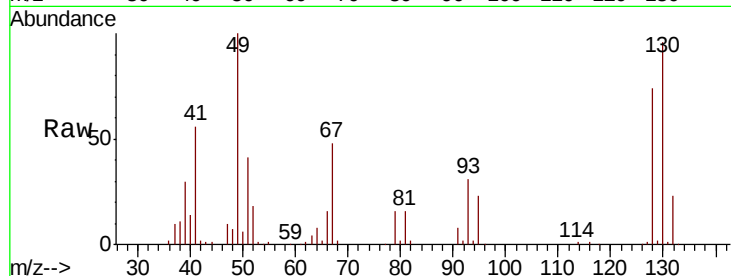




#39  
Methacrylonitrile  
Concen: 15.708 ug/l  
RT: 5.03 min Scan# 1147  
Delta R.T. -0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

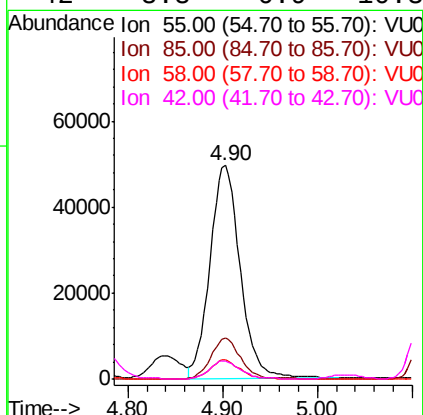
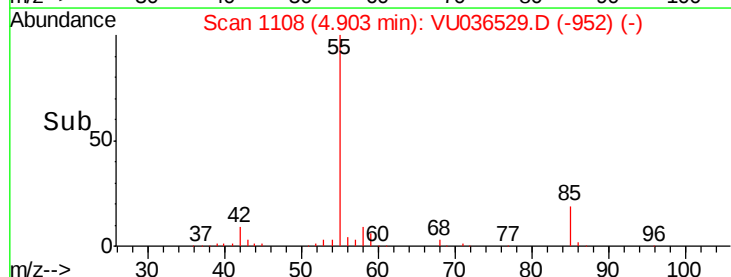
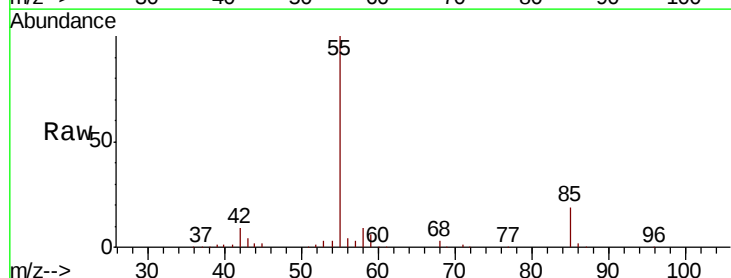
Instrument :  
MSVOA\_U  
ClientSampled :

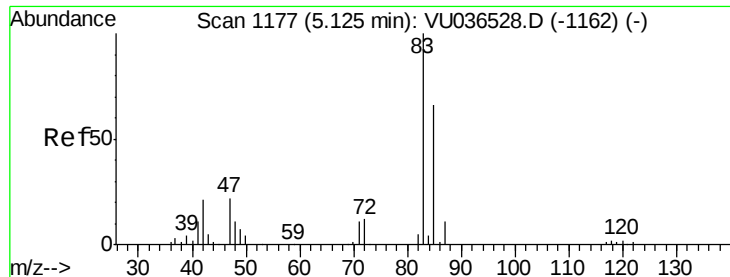
Tot Ion: 41 Resp: 62857  
Ion Ratio Lower Upper  
41 100  
67 87.5 69.6 104.4  
39 54.1 41.6 62.4  
52 32.4 25.9 38.9



#40  
Methyl acrylate  
Concen: 18.545 ug/l  
RT: 4.90 min Scan# 1108  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 55 Resp: 110110  
Ion Ratio Lower Upper  
55 100  
85 18.5 14.7 22.1  
58 8.9 7.1 10.7  
42 8.8 6.9 10.3





#41

Tetrahydrofuran

Concen: 30.382 ug/l

RT: 5.12 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampled :

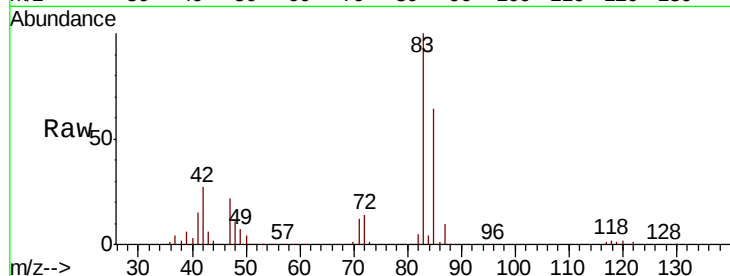
Tot Ion: 42 Resp: 63043

Ion Ratio Lower Upper

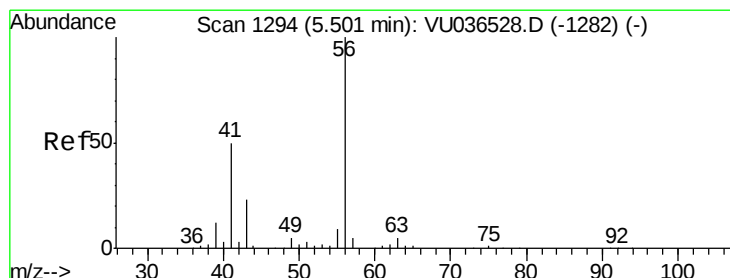
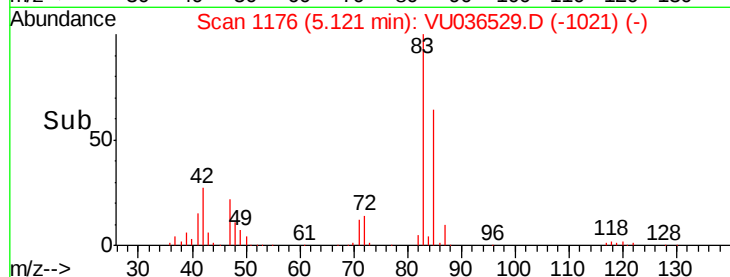
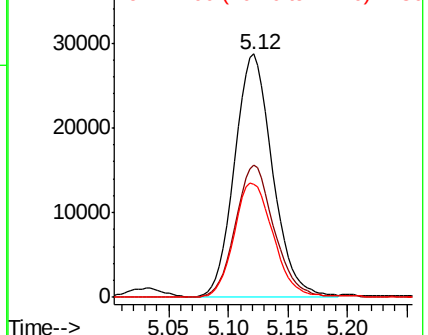
42 100

72 56.1 42.5 63.7

71 49.2 37.3 55.9



Abundance Ion 42.00 (41.70 to 42.70): VU0  
Ion 72.00 (71.70 to 72.70): VU0  
Ion 71.00 (70.70 to 71.70): VU0



#42

1-Chlorobutane

Concen: 16.648 ug/l

RT: 5.50 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VU036529.D

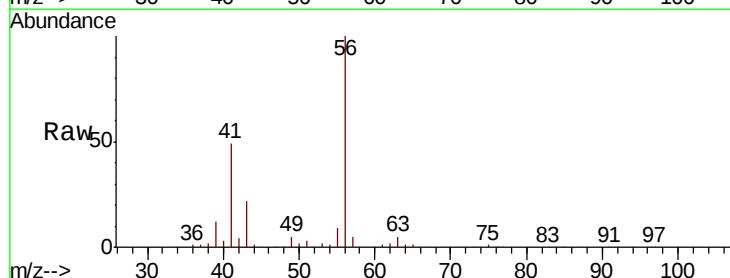
Acq: 22 Jan 2020 16:40

Tgt Ion: 56 Resp: 362768

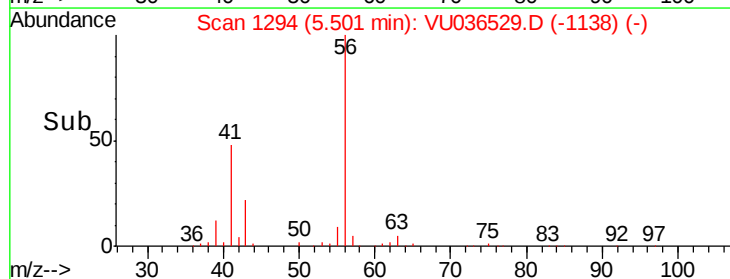
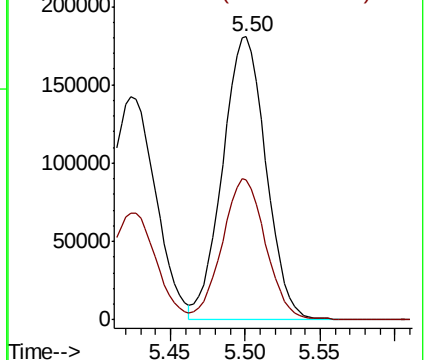
Ion Ratio Lower Upper

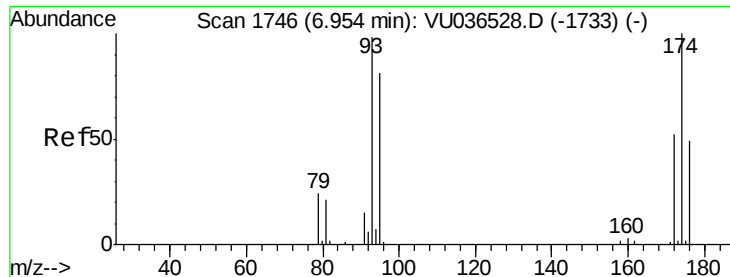
56 100

41 50.1 24.8 74.3



Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 41.00 (40.70 to 41.70): VU0





#43

Dibromomethane

Concen: 18.670 ug/l

RT: 6.96 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

ClientSampleId :

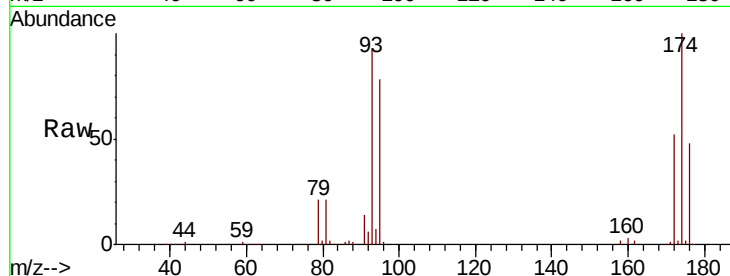
Tot Ion: 93 Resp: 105916

Ion Ratio Lower Upper

93 100

95 83.4 67.9 101.9

174 105.0 83.4 125.0

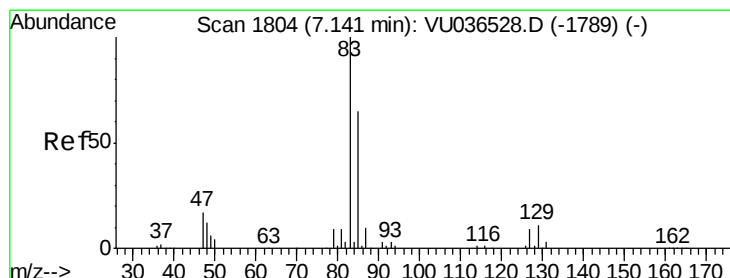
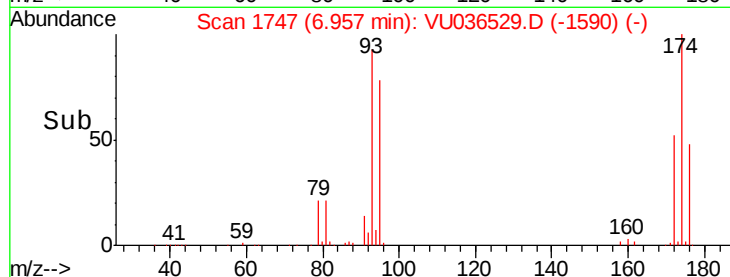
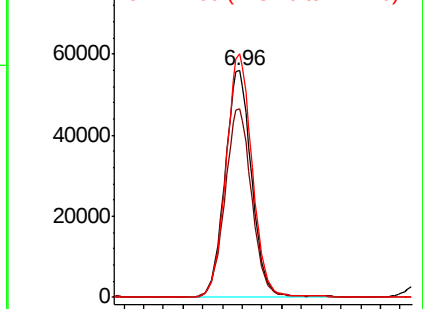


Abundance

Ion 93.00 (92.70 to 93.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V



#44

Bromodichloromethane

Concen: 17.497 ug/l

RT: 7.14 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

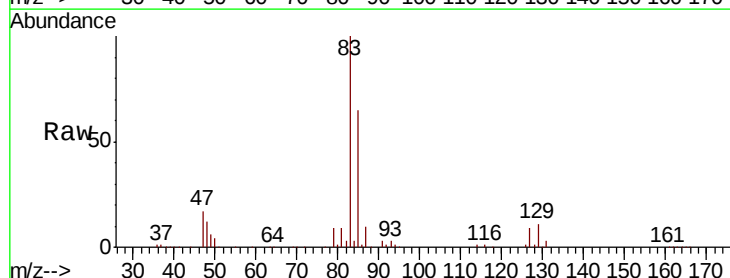
Tgt Ion: 83 Resp: 255525

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6

127 8.6 6.8 10.2

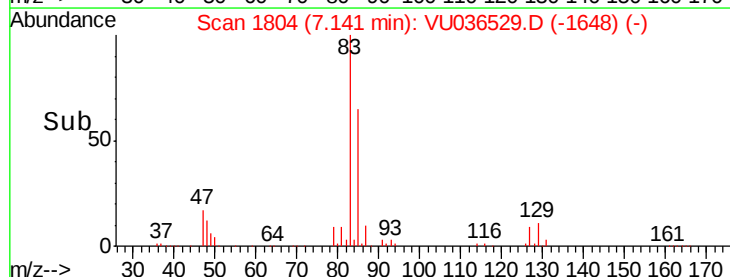
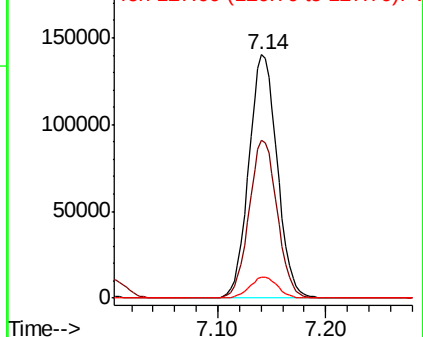


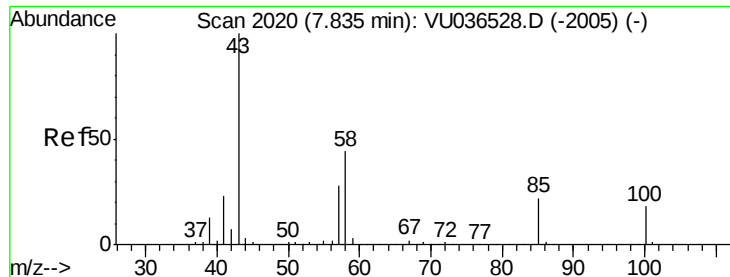
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

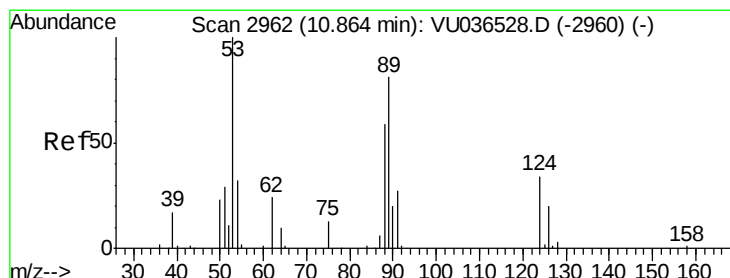
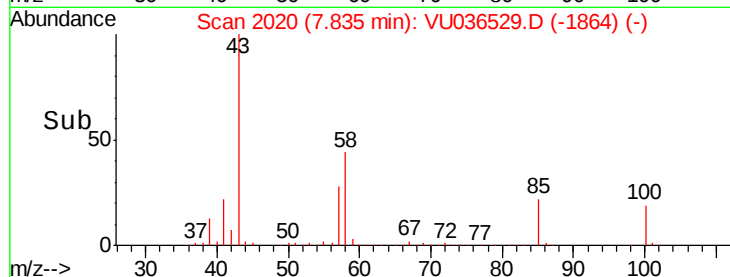
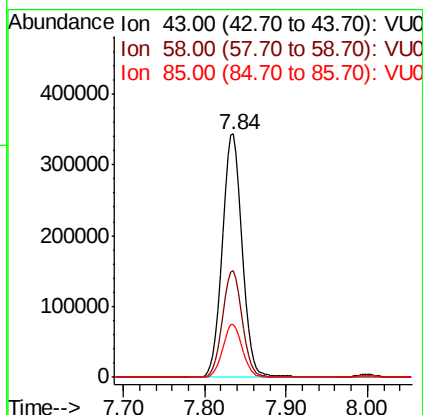
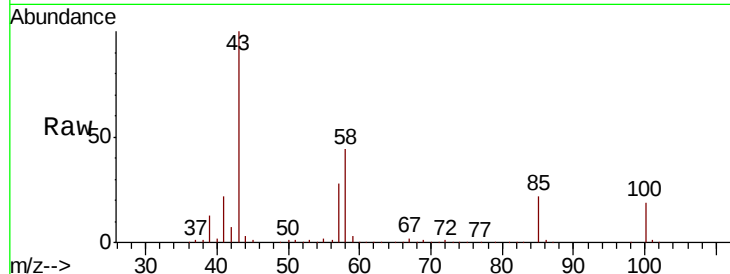




#45  
4-Methyl-2-Pentanone  
Concen: 76.002 ug/l  
RT: 7.84 min Scan# 2020  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

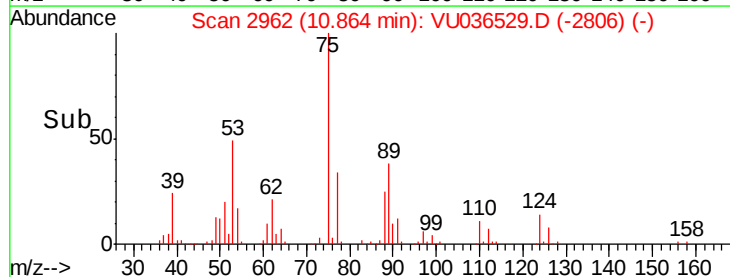
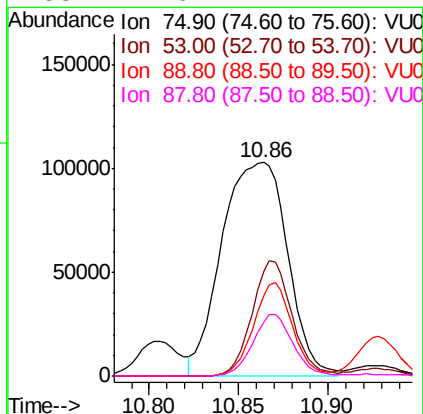
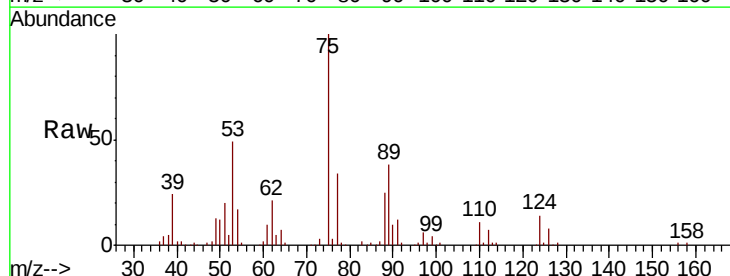
Instrument :  
MSVOA\_U  
ClientSampleId :

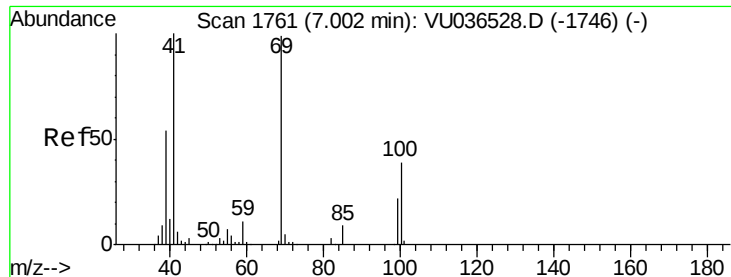
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 43.9  | 22.1  | 66.1  |
| 85      | 21.5  | 17.4  | 26.0  |



#46  
t-1,4-Dichloro-2-butene  
Concen: 82.864 ug/l  
RT: 10.86 min Scan# 2962  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 32.9  | 52.2  | 78.2# |
| 89      | 26.0  | 39.8  | 59.6# |
| 88      | 17.6  | 27.4  | 41.2# |

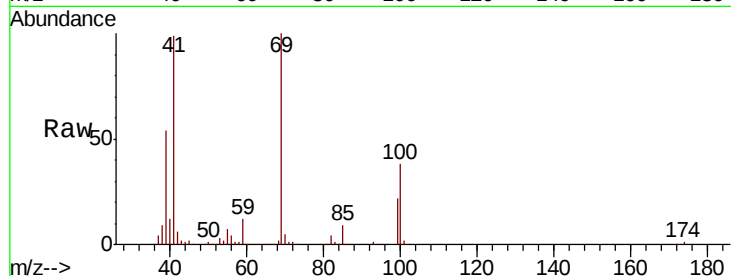




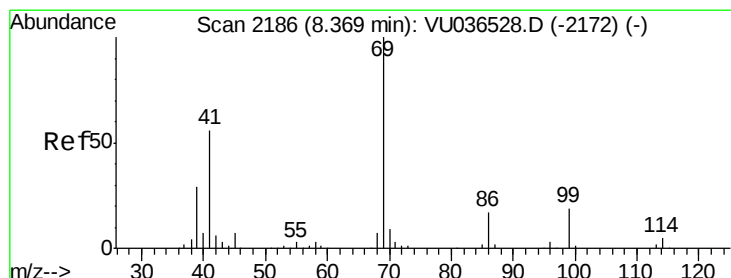
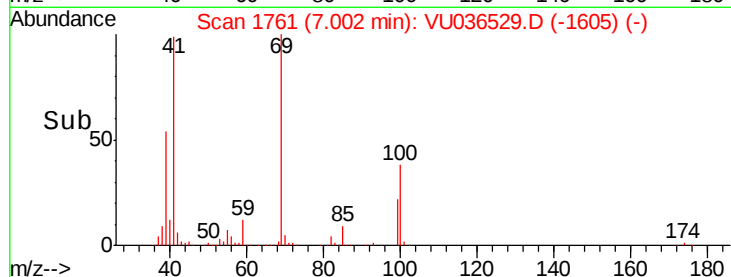
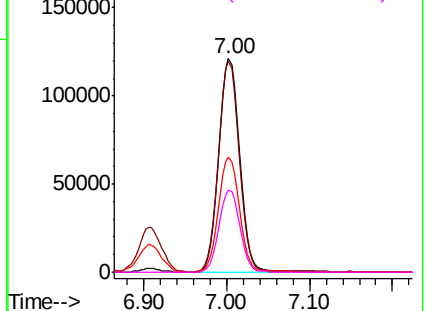
#47  
Methyl methacrylate  
Concen: 39.093 ug/l  
RT: 7.00 min Scan# 1761  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 69 Resp: 211509  
Ion Ratio Lower Upper  
69 100  
41 97.3 0.0 200.8  
39 53.2 43.5 65.3  
100 38.5 31.1 46.7

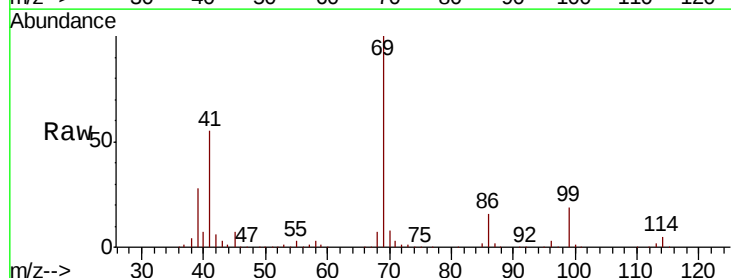


Abundance Ion 69.00 (68.70 to 69.70): VU0  
Ion 41.00 (40.70 to 41.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 100.00 (99.70 to 100.70): VU0

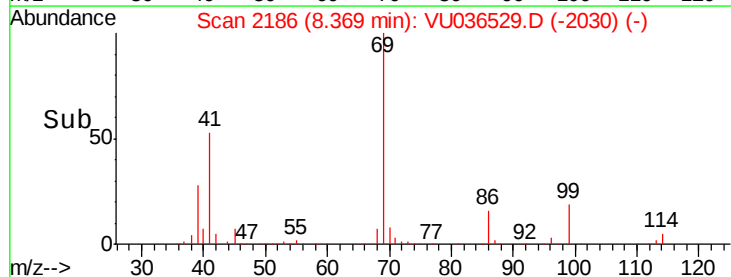
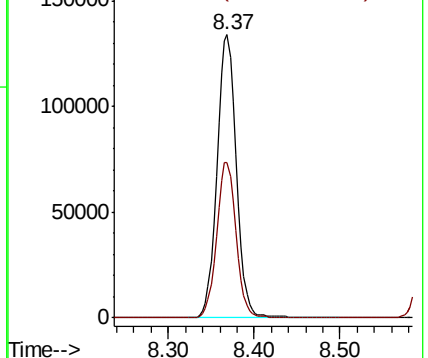


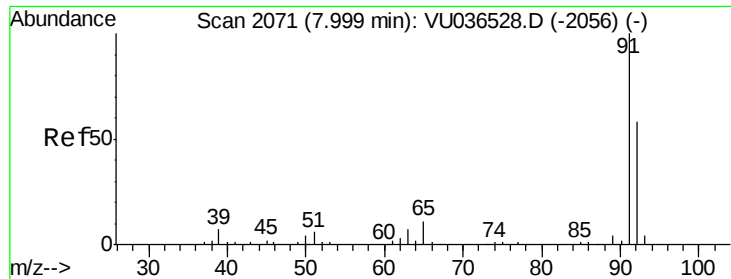
#48  
Ethyl methacrylate  
Concen: 19.607 ug/l  
RT: 8.37 min Scan# 2186  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 69 Resp: 209675  
Ion Ratio Lower Upper  
69 100  
41 55.0 27.9 83.6



Abundance Ion 69.00 (68.70 to 69.70): VU0  
Ion 41.00 (40.70 to 41.70): VU0





#49

Toluene

Concen: 19.797 ug/l

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

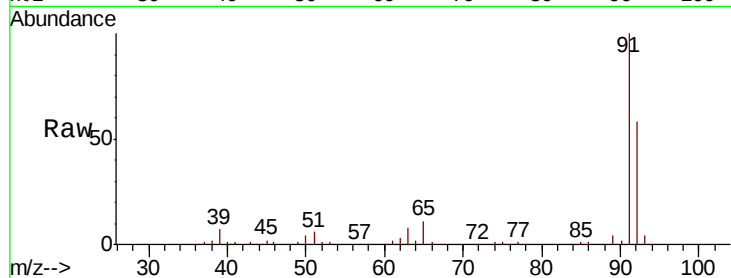
ClientSampleId :

Tot Ion: 92 Resp: 516497

Ion Ratio Lower Upper

92 100

91 172.6 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VU036528.D (-2056) (-)

Ion 91.00 (90.70 to 91.70): VU036529.D (-1915) (-)

600000

500000

400000

300000

200000

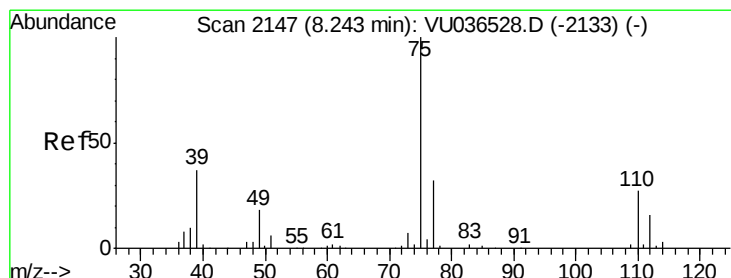
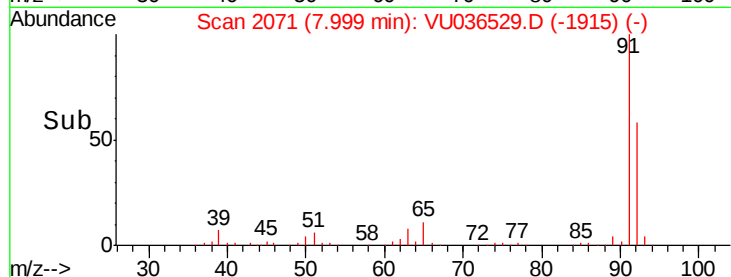
100000

0

8.00

7.90 7.95 8.00 8.05 8.10

Time-->



#50

t-1,3-Dichloropropene

Concen: 18.453 ug/l

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036529.D

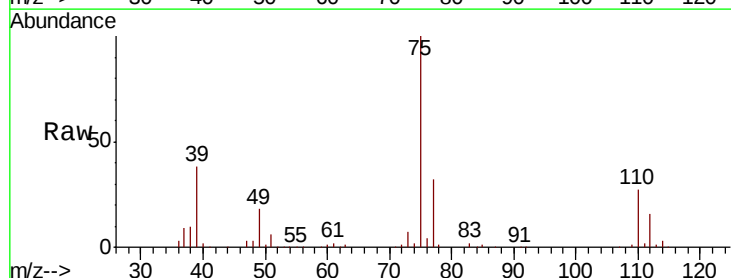
Acq: 22 Jan 2020 16:40

Tgt Ion: 75 Resp: 264441

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU036528.D (-2133) (-)

Ion 77.00 (76.70 to 77.70): VU036529.D (-1991) (-)

150000

100000

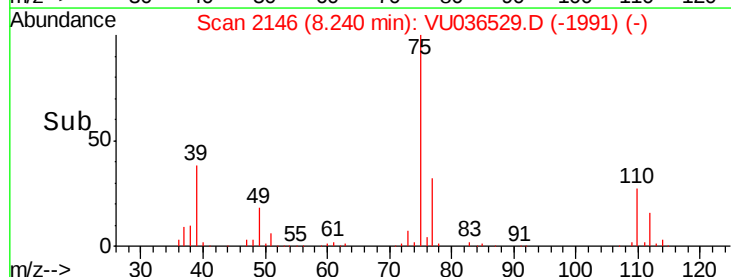
50000

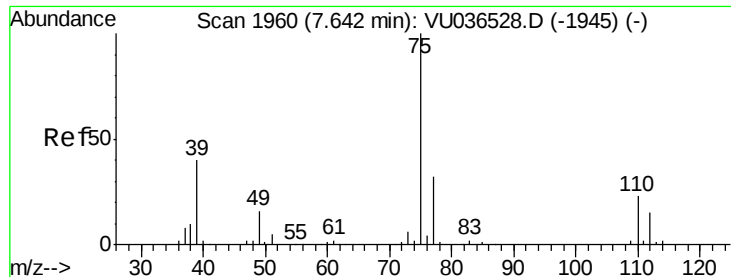
0

8.24

8.20 8.25 8.30

Time-->



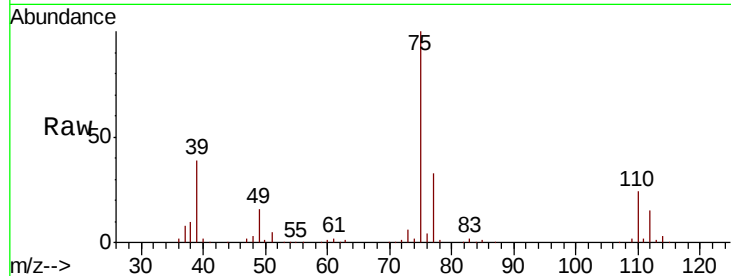


#51

cis-1,3-Dichloropropene  
Concen: 19.054 ug/l  
RT: 7.64 min Scan# 1960  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampled :

| Tot Ion   | 75    | Resp  | 315589 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 32.6  | 25.3  | 37.9   |
| 39        | 39.1  | 31.8  | 47.6   |

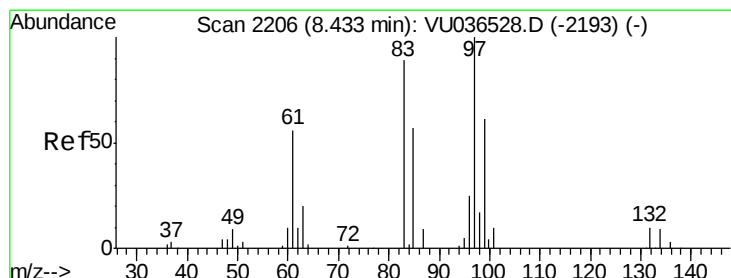
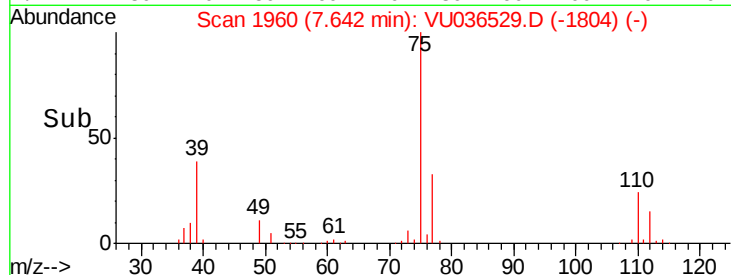
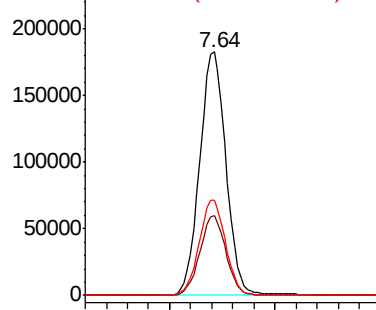


Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

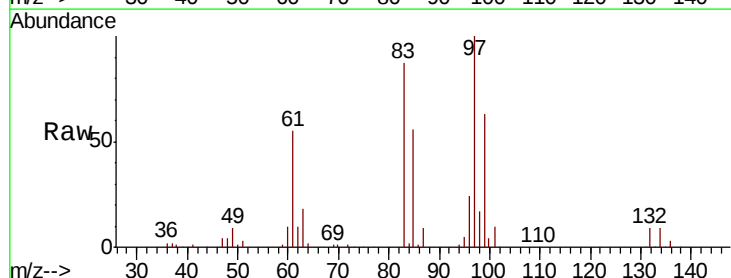
Ion 39.00 (38.70 to 39.70): VU0



#52

1,1,2-Trichloroethane  
Concen: 19.831 ug/l  
RT: 8.43 min Scan# 2206  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

| Tgt Ion   | 97    | Resp  | 149187 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 83        | 87.6  | 70.9  | 106.3  |
| 85        | 55.8  | 45.6  | 68.4   |
| 99        | 63.1  | 51.0  | 76.4   |



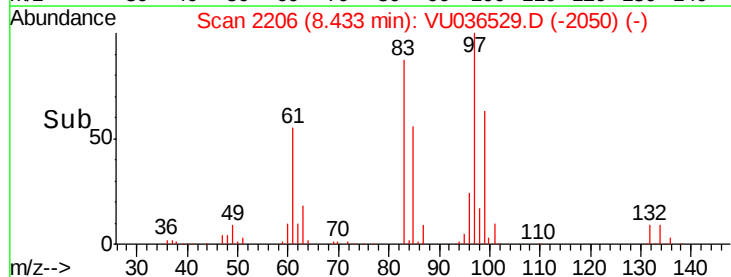
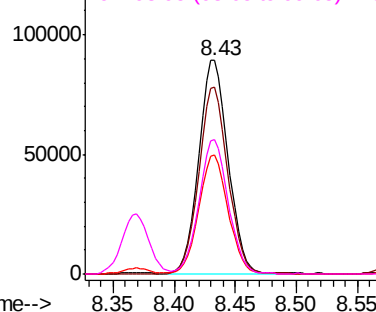
Abundance

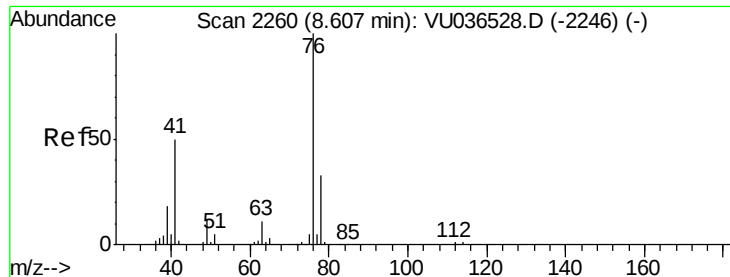
Ion 97.00 (96.70 to 97.70): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 84.95 (84.65 to 85.65): VU0

Ion 98.95 (98.65 to 99.65): VU0





#53

1,3-Dichloropropane

Concen: 18.530 ug/l

RT: 8.61 min Scan# 2260

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

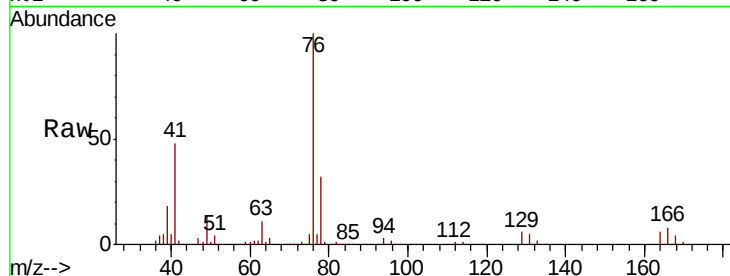
ClientSampleId :

Tot Ion: 76 Resp: 260142

Ion Ratio Lower Upper

76 100

78 32.1 25.4 38.2



Abundance Ion 76.00 (75.70 to 76.70): VU036528.D (-2246) (-)

Ion 78.00 (77.70 to 78.70): VU036528.D (-2246) (-)

8.61

150000

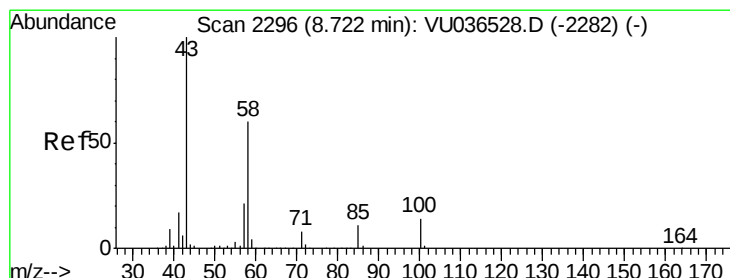
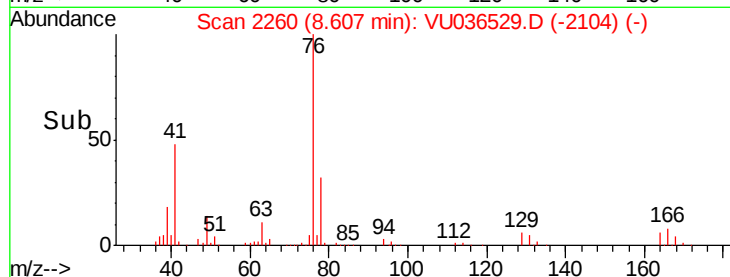
100000

50000

0

8.50 8.60 8.70

Time-->



#54

2-Hexanone

Concen: 77.780 ug/l

RT: 8.72 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

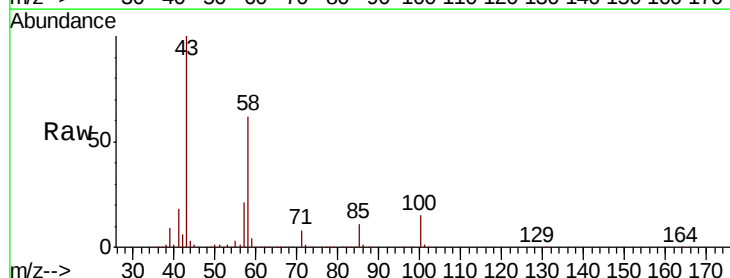
Tgt Ion: 43 Resp: 420143

Ion Ratio Lower Upper

43 100

58 62.2 40.6 80.6

57 21.2 1.2 41.2



Abundance Ion 43.00 (42.70 to 43.70): VU036528.D (-2282) (-)

Ion 58.00 (57.70 to 58.70): VU036528.D (-2282) (-)

Ion 57.00 (56.70 to 57.70): VU036528.D (-2282) (-)

8.72

300000

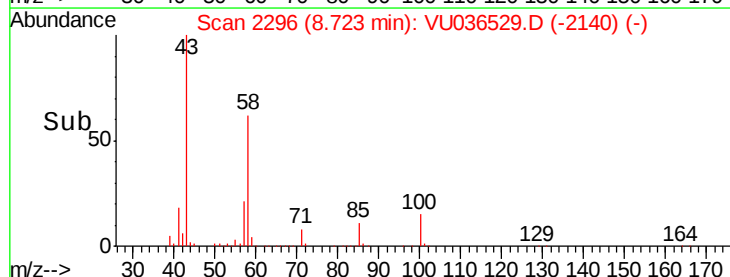
200000

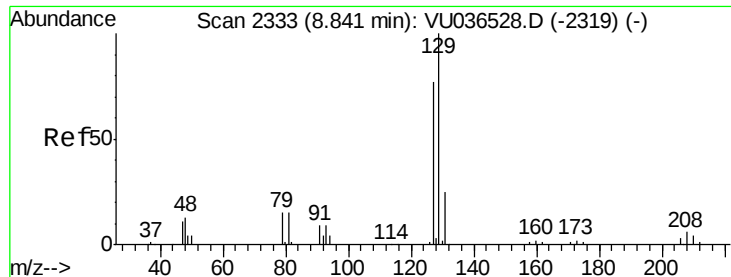
100000

0

8.70 8.80

Time-->

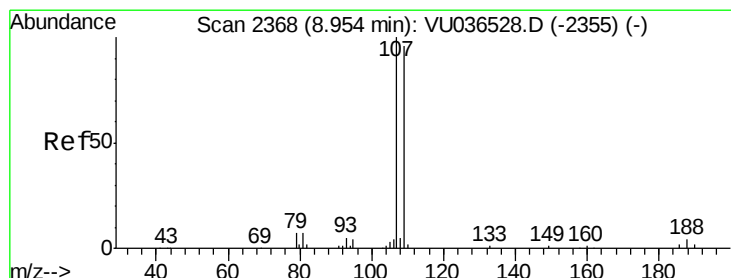
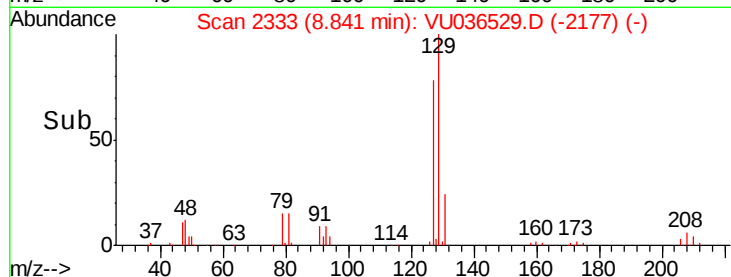
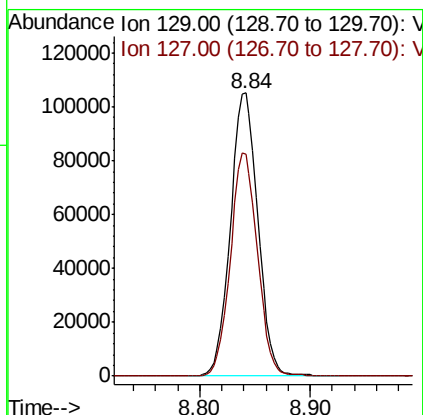
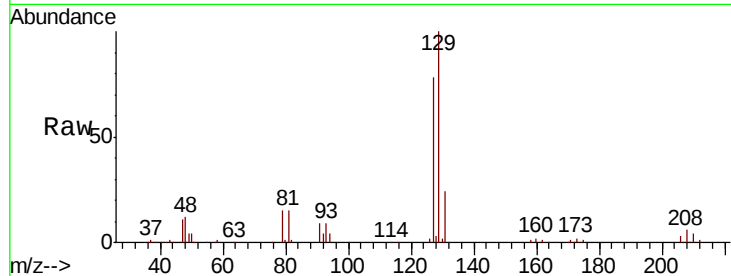




#55  
 Dibromochloromethane  
 Concen: 20.630 ug/l  
 RT: 8.84 min Scan# 2333  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

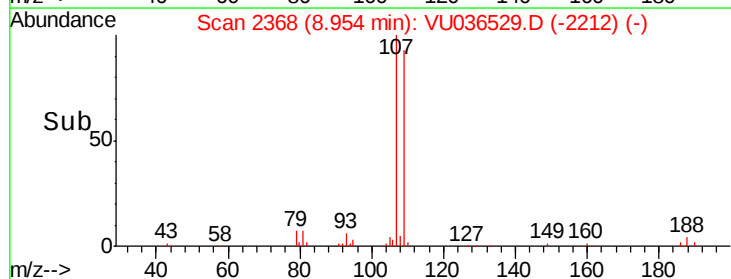
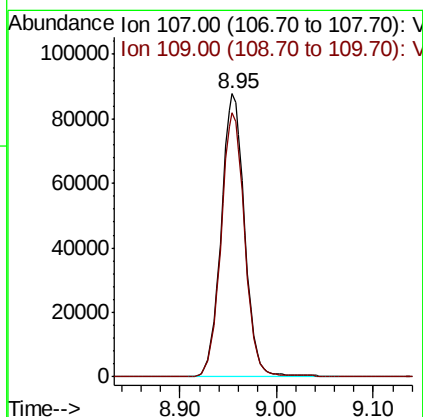
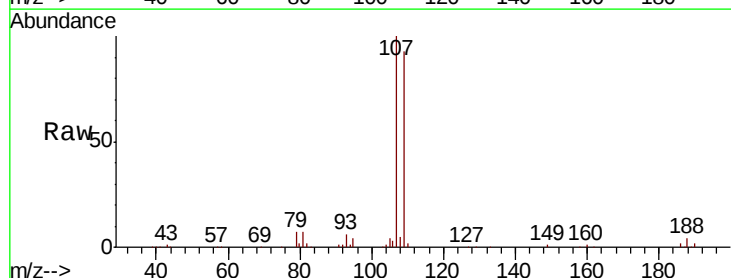
Instrument :  
 MSVOA\_U  
 ClientSampleId :

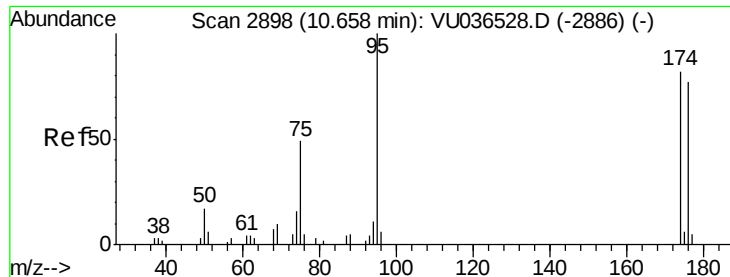
Tot Ion:129 Resp: 181754  
 Ion Ratio Lower Upper  
 129 100  
 127 77.5 62.6 94.0



#56  
 1,2-Dibromoethane  
 Concen: 19.908 ug/l  
 RT: 8.95 min Scan# 2368  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion:107 Resp: 147200  
 Ion Ratio Lower Upper  
 107 100  
 109 94.4 0.0 190.8

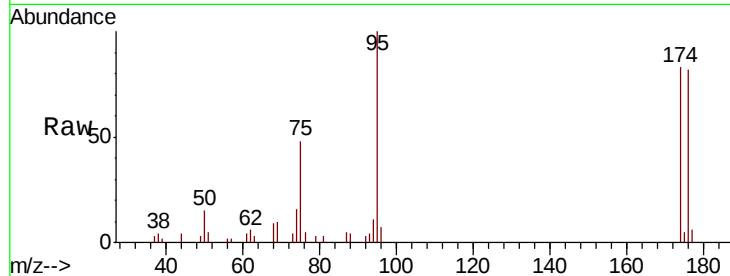




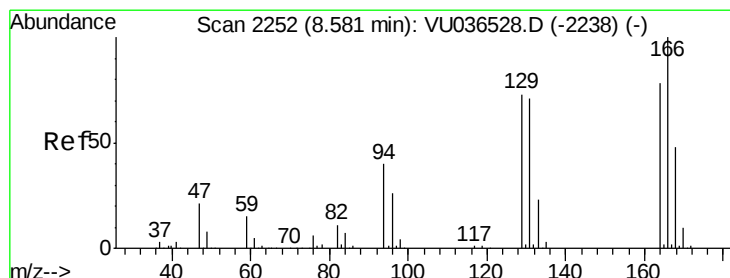
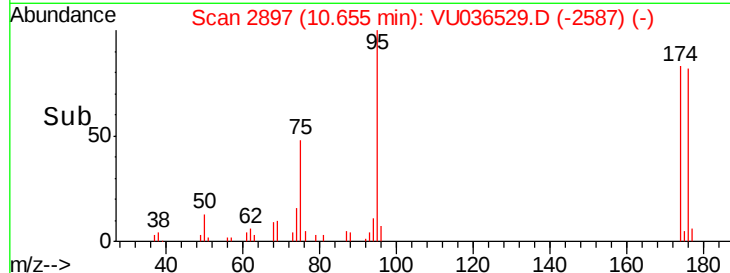
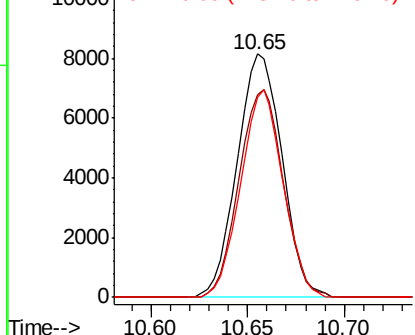
#57  
4-Bromofluorobenzene  
Concen: 0.935 ug/l  
RT: 10.65 min Scan# 2897  
Delta R.T. -0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 95 Resp: 13145  
Ion Ratio Lower Upper  
95 100  
174 84.3 64.7 97.1  
176 80.5 60.6 91.0

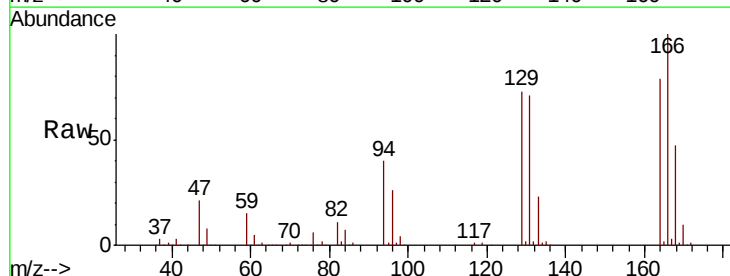


Abundance Ion 95.00 (94.70 to 95.70): VU036529.D (-2587) (-)  
Ion 174.00 (173.70 to 174.70): VU036529.D (-2587) (-)  
Ion 176.00 (175.70 to 176.70): VU036529.D (-2587) (-)

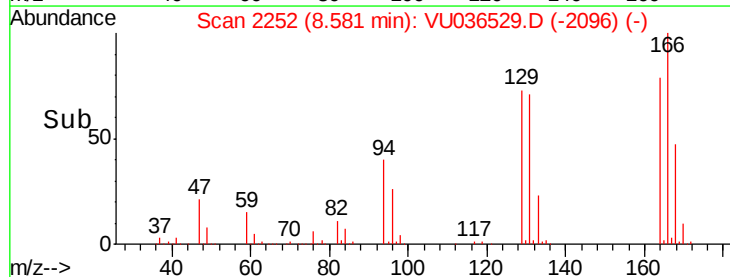
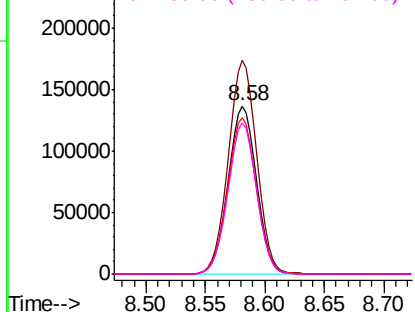


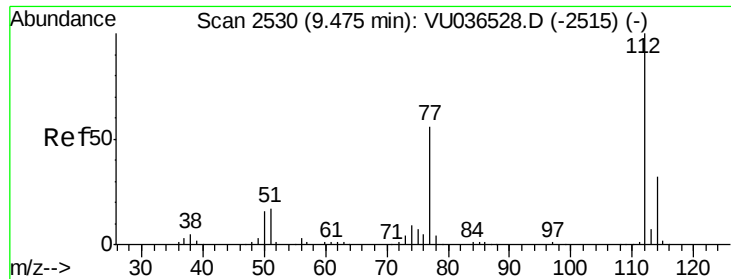
#58  
Tetrachloroethene  
Concen: 26.878 ug/l  
RT: 8.58 min Scan# 2252  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion:164 Resp: 226779  
Ion Ratio Lower Upper  
164 100  
166 127.2 102.0 153.0  
129 93.3 74.9 112.3  
131 90.3 72.6 108.8



Abundance Ion 163.85 (163.55 to 164.55): VU036529.D (-2096) (-)  
Ion 165.80 (165.50 to 166.50): VU036529.D (-2096) (-)  
Ion 128.90 (128.60 to 129.60): VU036529.D (-2096) (-)  
Ion 130.90 (130.60 to 131.60): VU036529.D (-2096) (-)

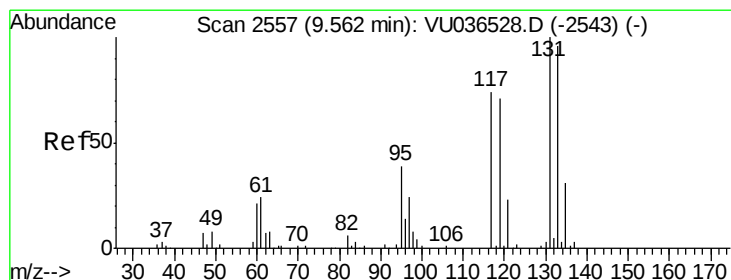
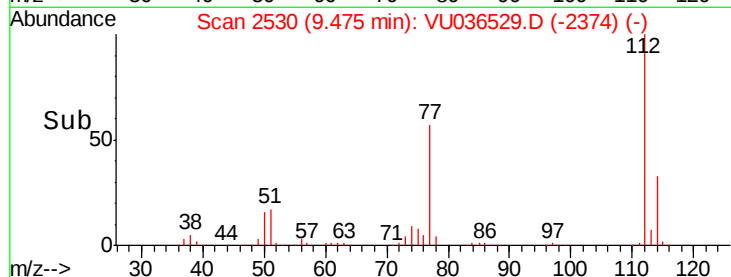
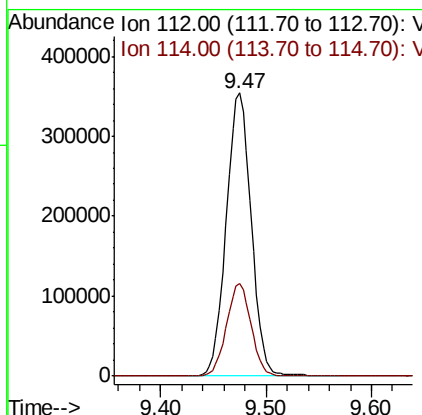
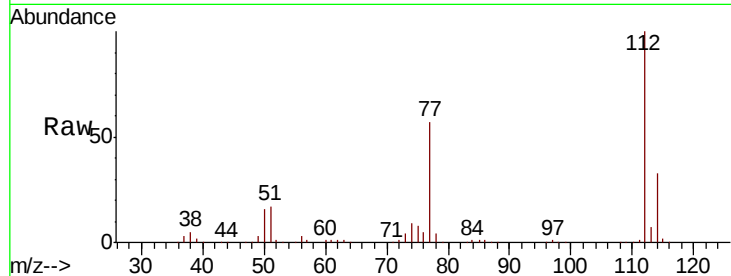




#59  
Chlorobenzene  
Concen: 21.052 ug/l  
RT: 9.47 min Scan# 2530  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

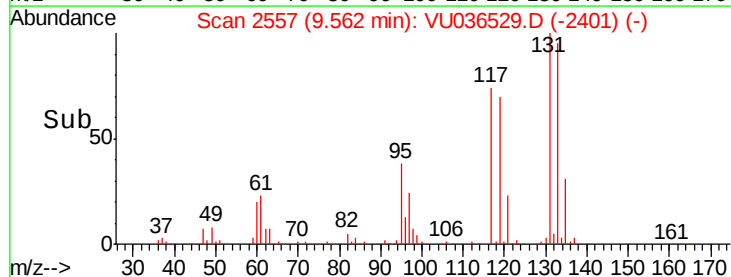
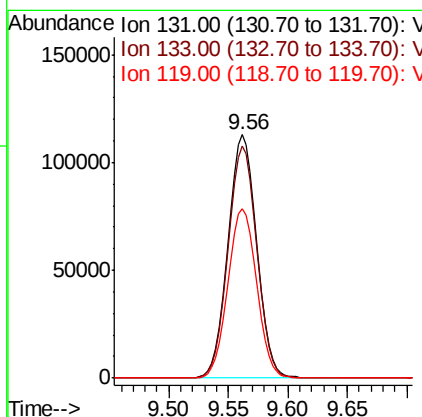
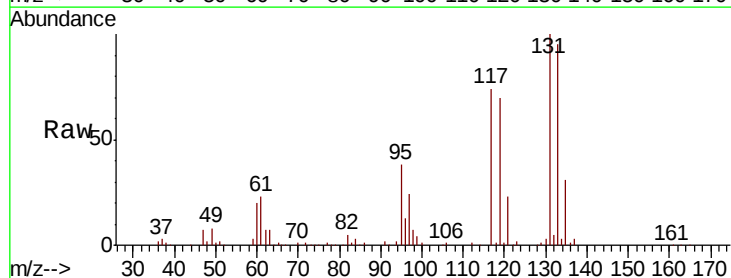
Instrument :  
MSVOA\_U  
ClientSampleId :

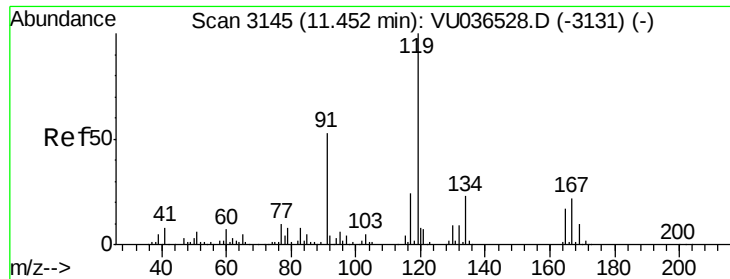
Tot Ion:112 Resp: 579759  
Ion Ratio Lower Upper  
112 100  
114 32.5 25.8 38.8



#60  
1,1,1,2-Tetrachloroethane  
Concen: 20.250 ug/l  
RT: 9.56 min Scan# 2557  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion:131 Resp: 188843  
Ion Ratio Lower Upper  
131 100  
133 95.7 76.4 114.6  
119 70.1 56.6 85.0

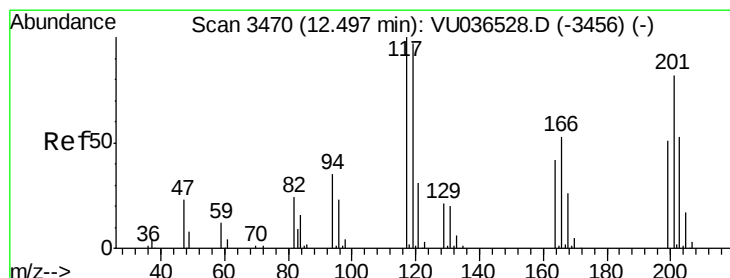
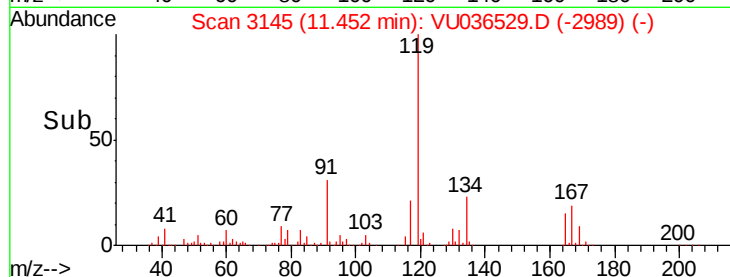
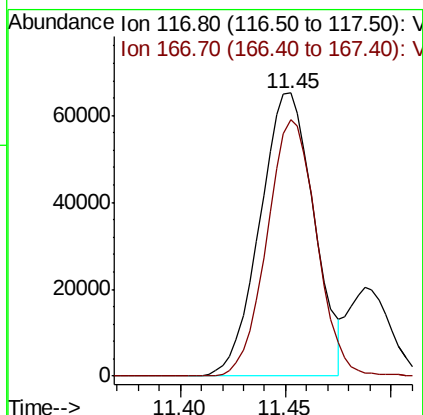
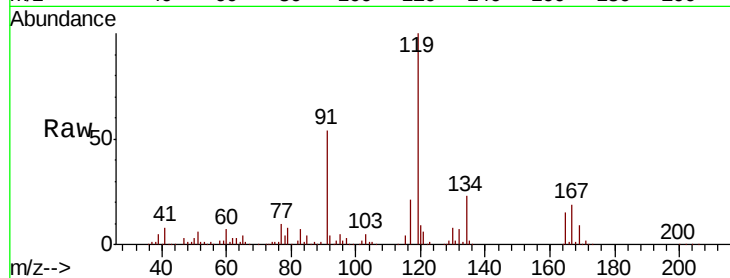




#61  
Pentachloroethane  
Concen: 15.169 ug/l  
RT: 11.45 min Scan# 3145  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

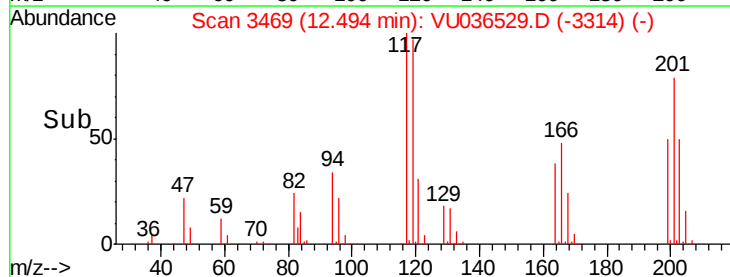
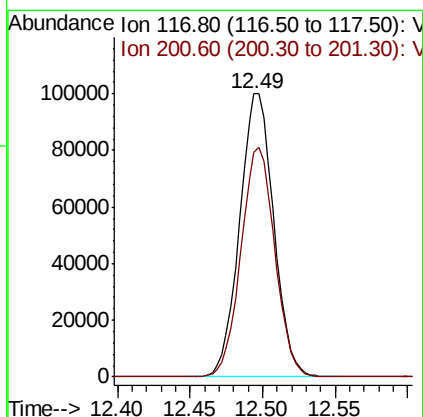
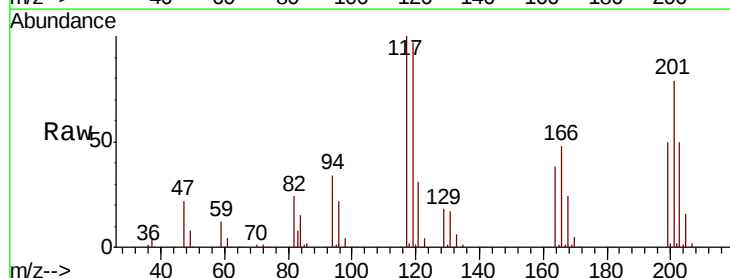
Instrument :  
MSVOA\_U  
ClientSampleId :

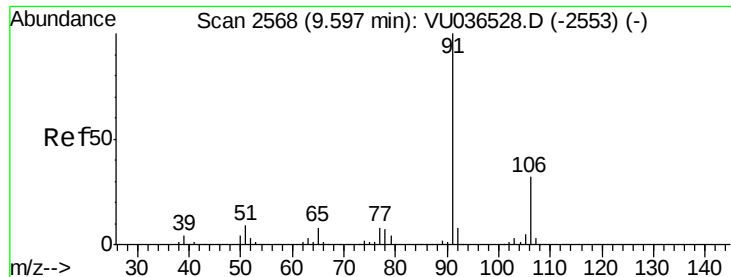
Tot Ion:117 Resp: 116376  
Ion Ratio Lower Upper  
117 100  
167 83.1 66.7 100.1



#62  
Hexachloroethane  
Concen: 20.309 ug/l  
RT: 12.49 min Scan# 3469  
Delta R.T. -0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion:117 Resp: 163602  
Ion Ratio Lower Upper  
117 100  
201 80.6 65.0 97.4

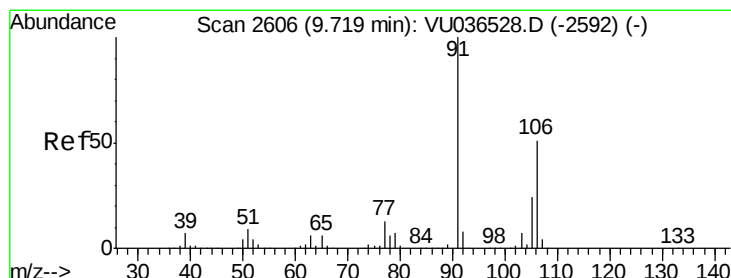
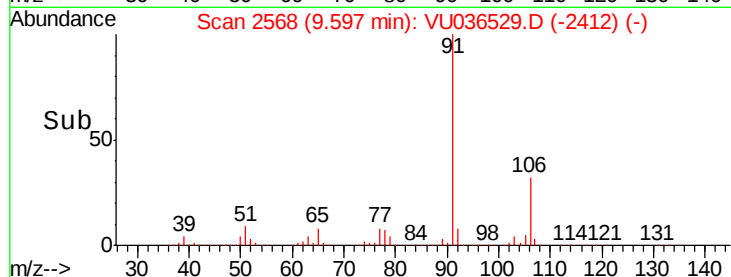
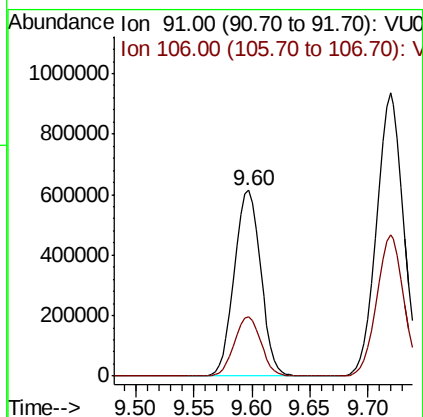
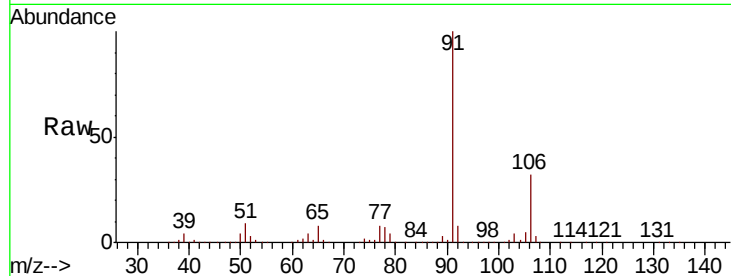




#63  
Ethyl Benzene  
Concen: 19.472 ug/l  
RT: 9.60 min Scan# 2568  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

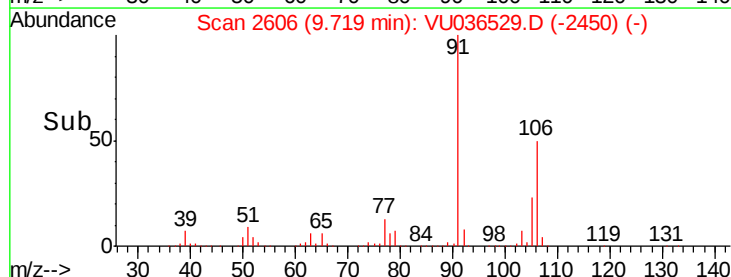
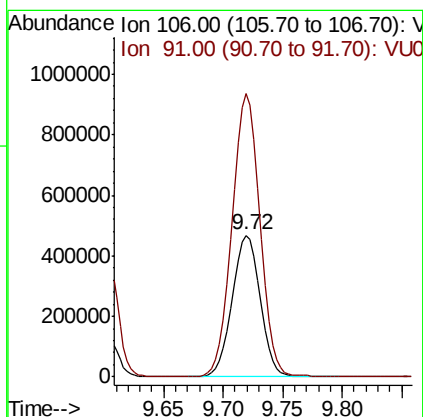
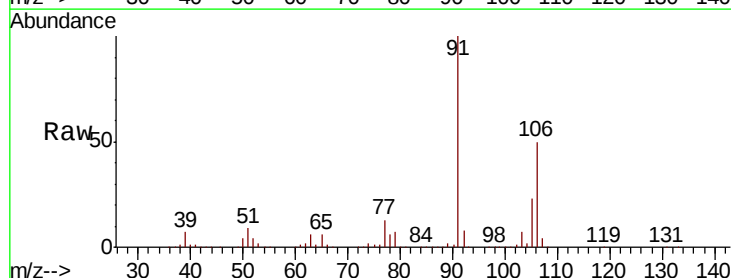
Instrument :  
MSVOA\_U  
ClientSampled :

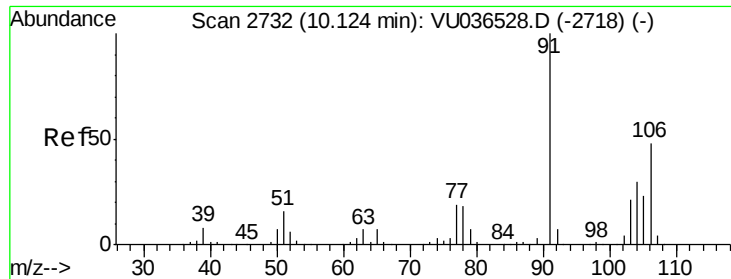
Tot Ion: 91 Resp: 975135  
Ion Ratio Lower Upper  
91 100  
106 32.1 26.0 39.0



#64  
m/p-Xylenes  
Concen: 41.199 ug/l  
RT: 9.72 min Scan# 2606  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion: 106 Resp: 762917  
Ion Ratio Lower Upper  
106 100  
91 200.6 158.2 237.4

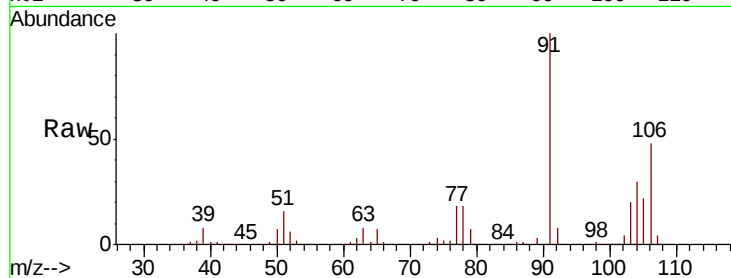




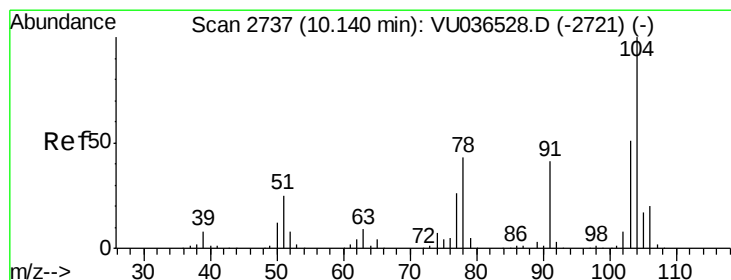
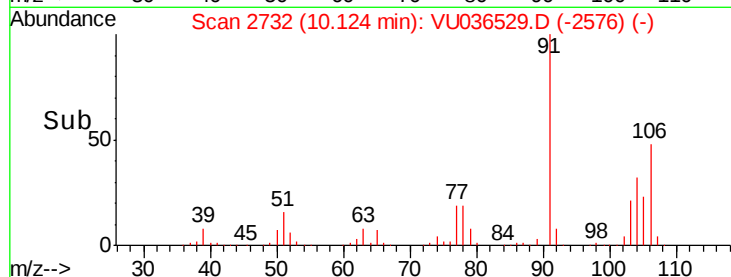
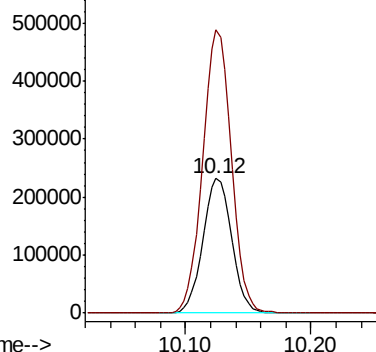
#65  
o-Xylene  
Concen: 20.501 ug/l  
RT: 10.12 min Scan# 2732  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:106 Resp: 370565  
Ion Ratio Lower Upper  
106 100  
91 209.2 104.3 312.9

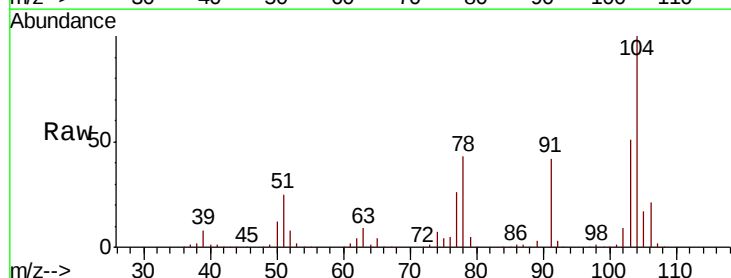


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

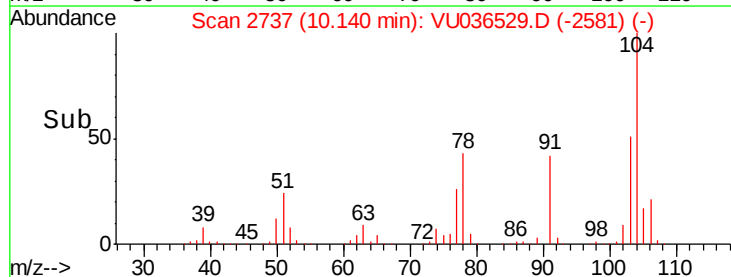
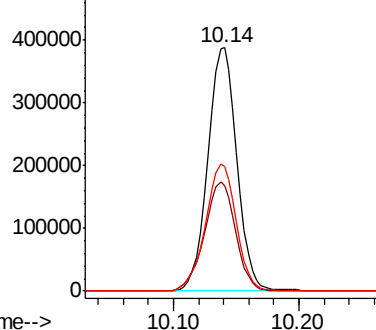


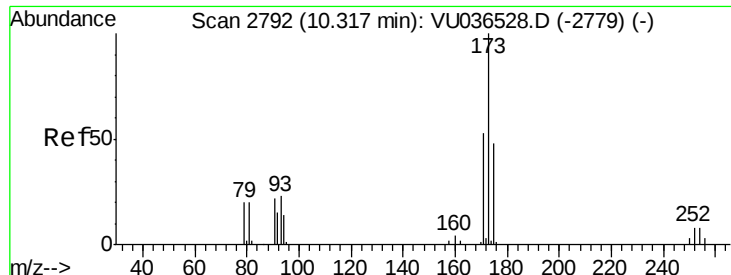
#66  
Styrene  
Concen: 20.975 ug/l  
RT: 10.14 min Scan# 2737  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion:104 Resp: 625659  
Ion Ratio Lower Upper  
104 100  
78 48.4 38.6 57.8  
103 55.5 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VU0  
Ion 103.00 (102.70 to 103.70): V

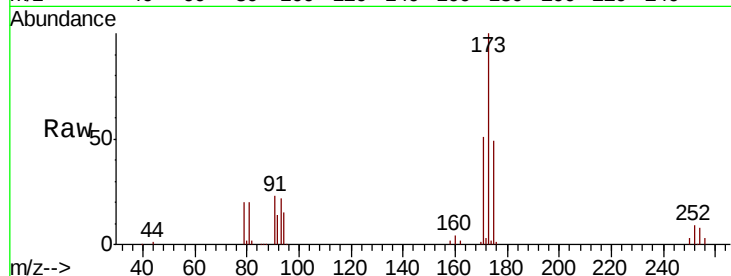




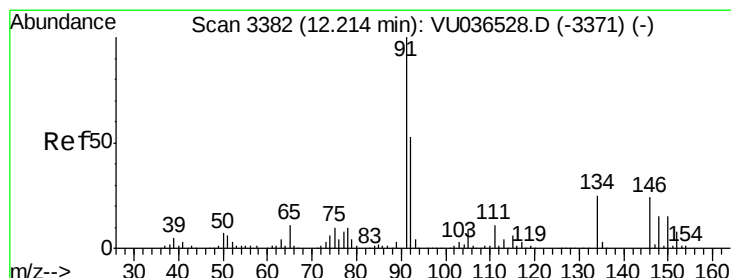
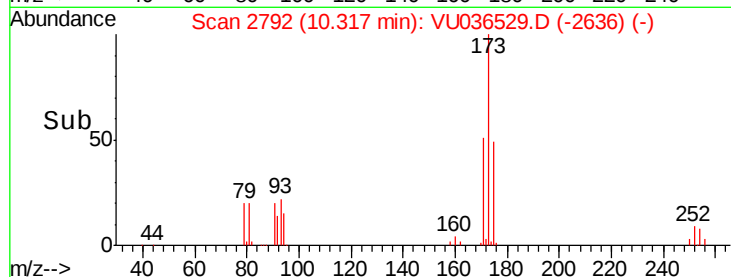
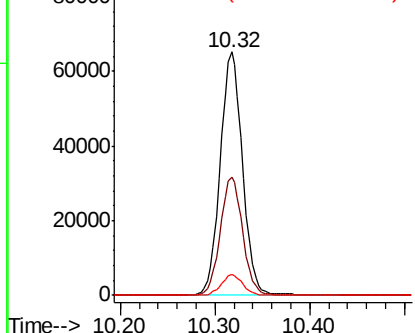
#67  
Bromoform  
Concen: 24.431 ug/l  
RT: 10.32 min Scan# 2792  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:173 Resp: 106565  
Ion Ratio Lower Upper  
173 100  
175 48.6 38.3 57.5  
254 8.1 6.6 9.8

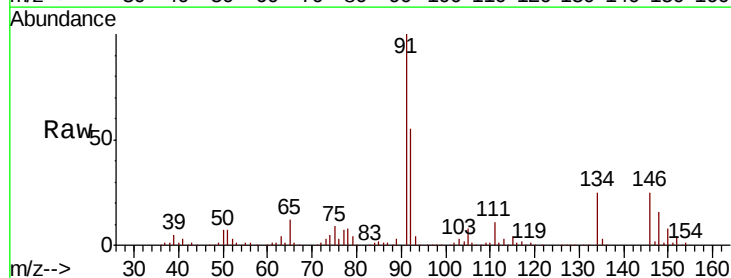


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V

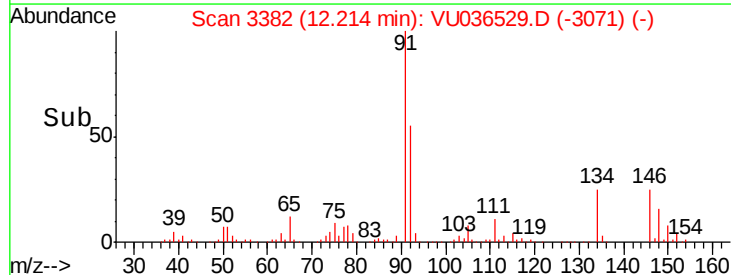
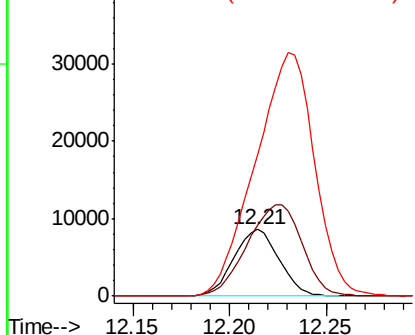


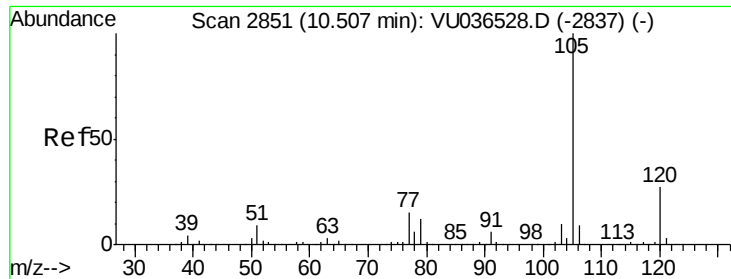
#68  
1,2-Dichlorobenzene-d4  
Concen: 1.135 ug/l  
RT: 12.21 min Scan# 3382  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

Tgt Ion:152 Resp: 13973  
Ion Ratio Lower Upper  
152 100  
115 166.6 0.0 241.8  
150 478.4 0.0 652.4



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 20.169 ug/l

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

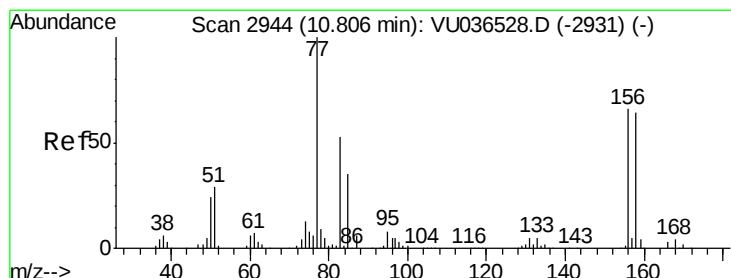
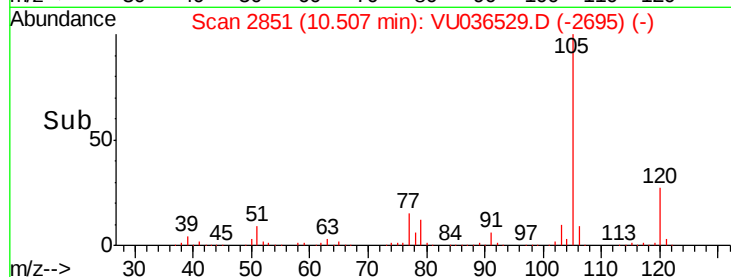
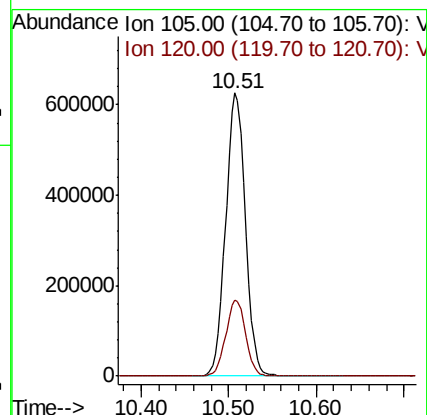
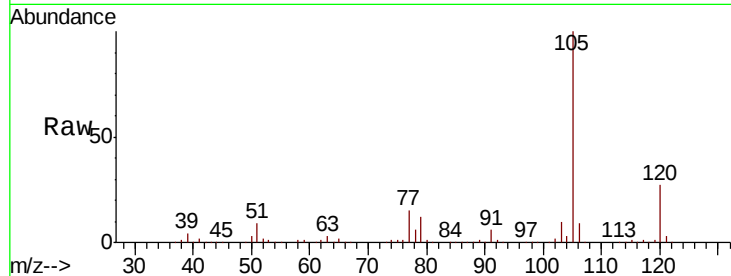
ClientSampleId :

Tot Ion:105 Resp: 979956

Ion Ratio Lower Upper

105 100

120 27.1 13.6 40.7



#70

1,1,2,2-Tetrachloroethane

Concen: 19.041 ug/l

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

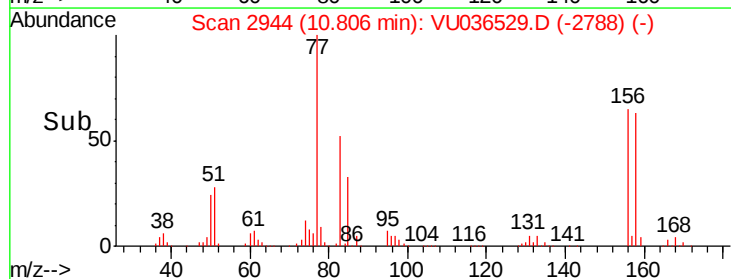
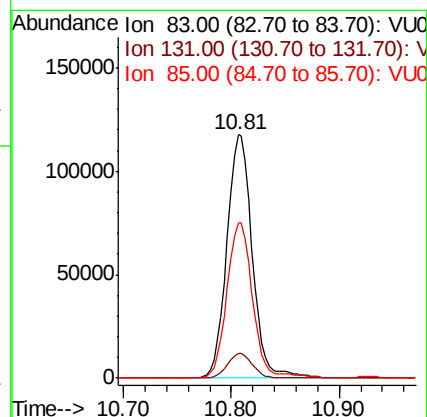
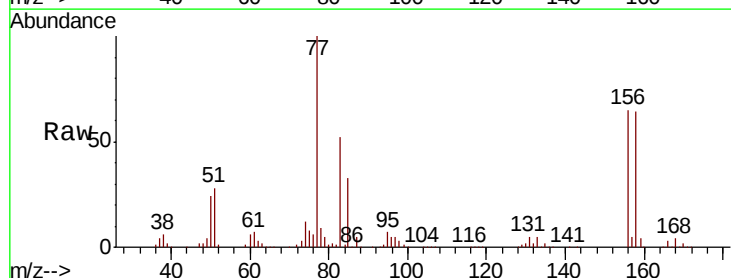
Tgt Ion: 83 Resp: 192972

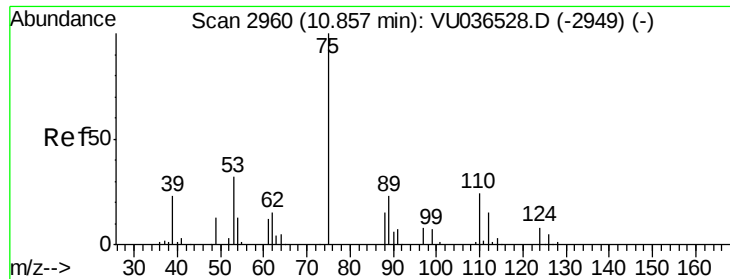
Ion Ratio Lower Upper

83 100

131 9.8 7.8 11.8

85 64.8 53.2 79.8

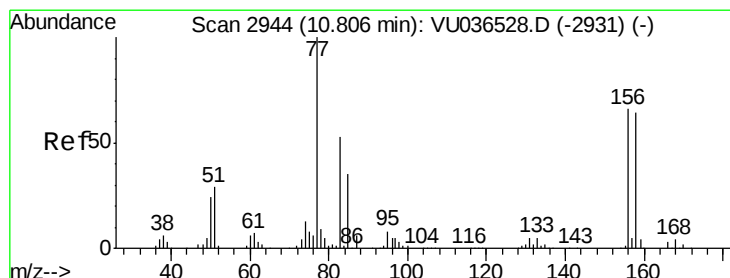
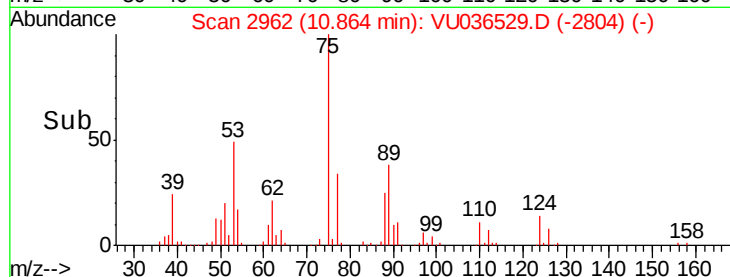
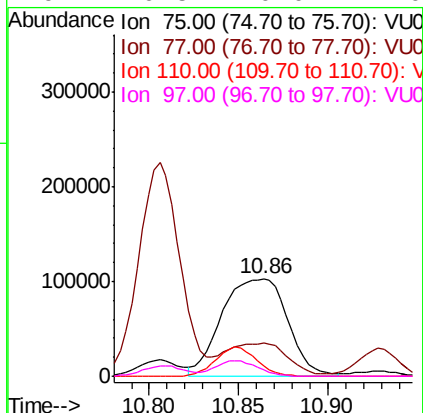
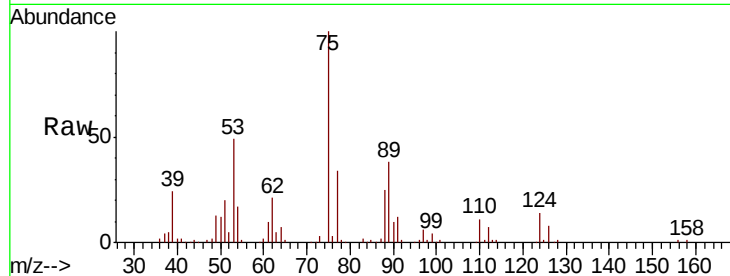




#71  
1,2,3-Trichloropropane  
Concen: 34.134 ug/l  
RT: 10.86 min Scan# 2962  
Delta R.T. 0.01 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

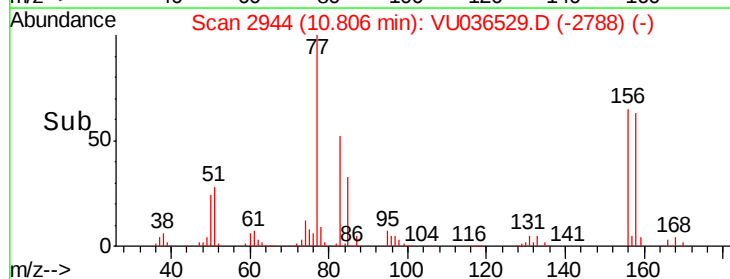
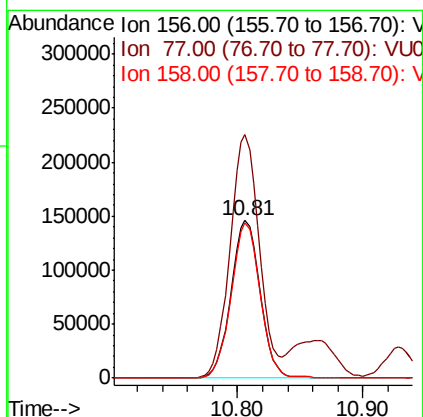
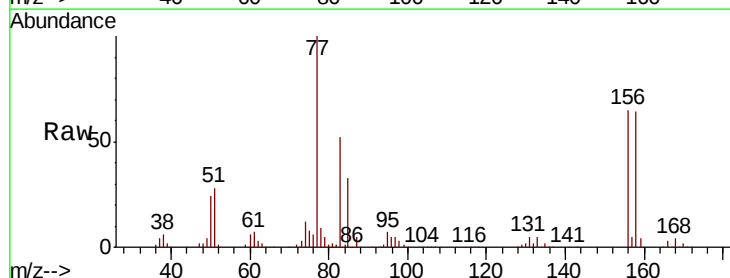
Instrument :  
MSVOA\_U  
ClientSampleId :

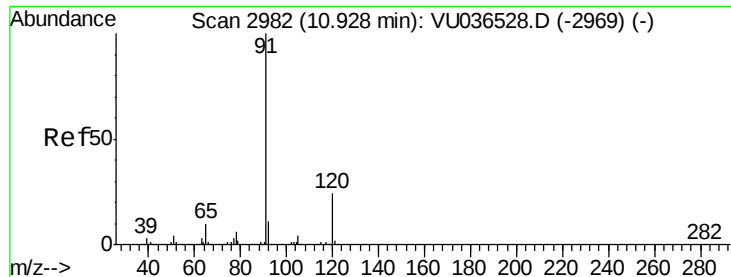
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 75    | Resp: | 263884 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 32.0  | 0.0   | 129.6  |
| 110      | 18.8  | 0.0   | 77.4   |
| 97       | 10.5  | 0.0   | 42.0   |



#72  
Bromobenzene  
Concen: 23.032 ug/l  
RT: 10.81 min Scan# 2944  
Delta R.T. 0.00 min  
Lab File: VU036529.D  
Acq: 22 Jan 2020 16:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 156   | Resp: | 236872 |
| Ion      | Ratio | Lower | Upper  |
| 156      | 100   |       |        |
| 77       | 154.4 | 0.0   | 306.6  |
| 158      | 97.3  | 0.0   | 192.0  |





#73

n-propylbenzene

Concen: 21.473 ug/l

RT: 10.93 min Scan# 2982

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

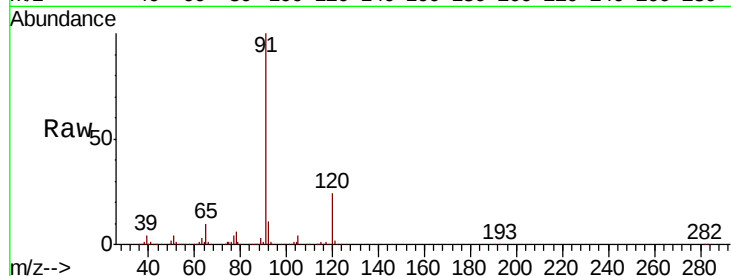
ClientSampled :

Tot Ion:120 Resp: 279774

Ion Ratio Lower Upper

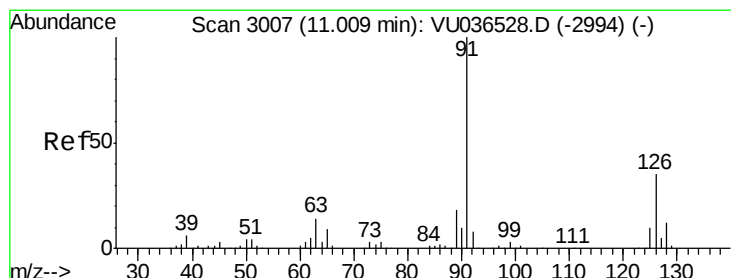
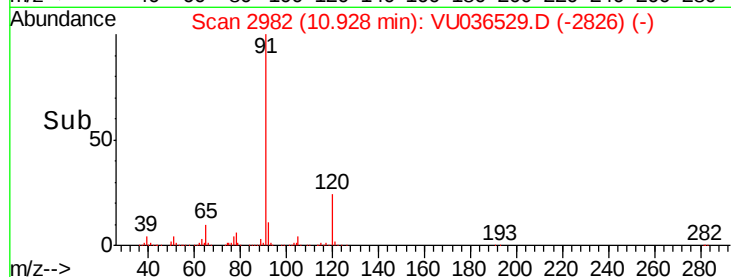
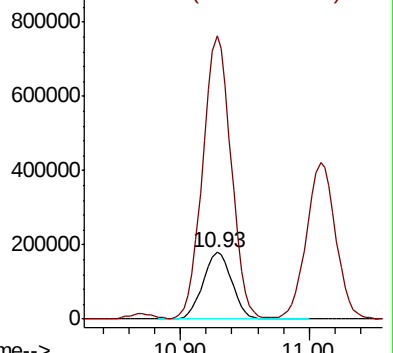
120 100

91 413.7 329.5 494.3



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 20.624 ug/l

RT: 11.01 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU036529.D

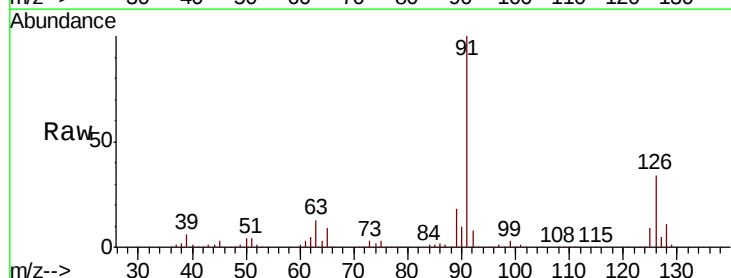
Acq: 22 Jan 2020 16:40

Tgt Ion:126 Resp: 230433

Ion Ratio Lower Upper

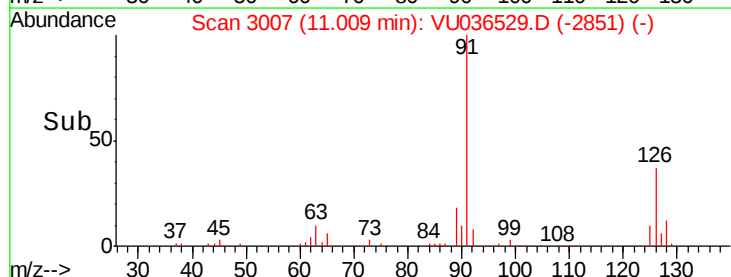
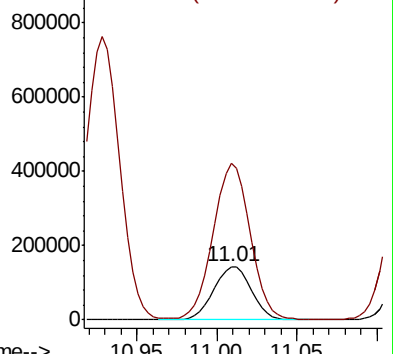
126 100

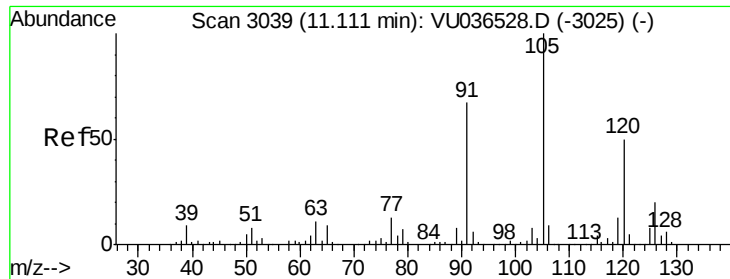
91 285.4 0.0 567.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 20.198 ug/l

RT: 11.11 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

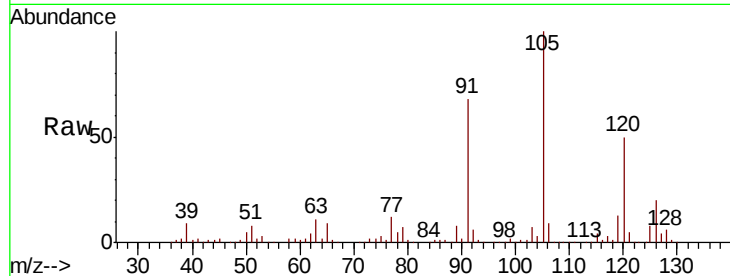
ClientSampleId :

Tot Ion:105 Resp: 832859

Ion Ratio Lower Upper

105 100

120 49.6 39.8 59.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

600000

500000

400000

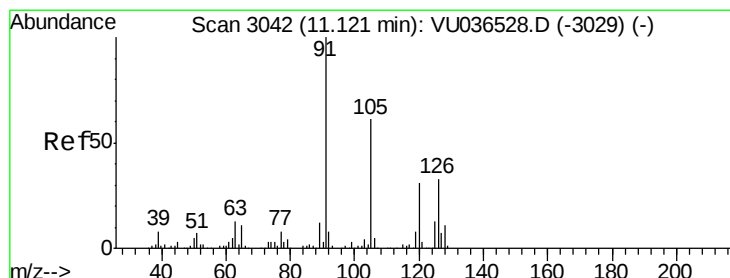
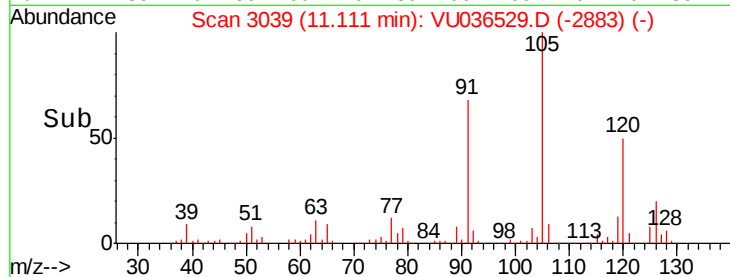
300000

200000

100000

0

Time--> 11.00 11.10 11.20



#76

4-Chlorotoluene

Concen: 21.071 ug/l

RT: 11.12 min Scan# 3042

Delta R.T. 0.00 min

Lab File: VU036529.D

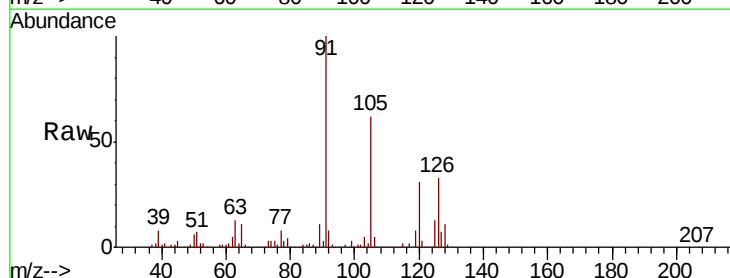
Acq: 22 Jan 2020 16:40

Tgt Ion:126 Resp: 242454

Ion Ratio Lower Upper

126 100

91 322.3 0.0 633.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0

11.12

500000

400000

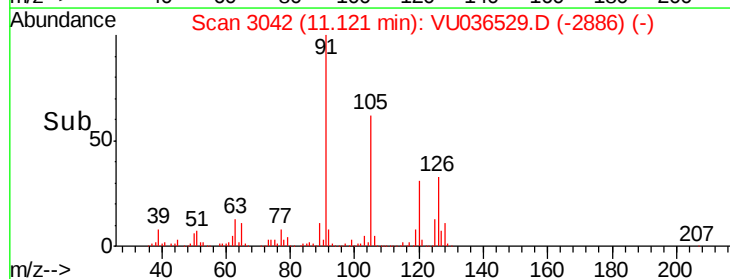
300000

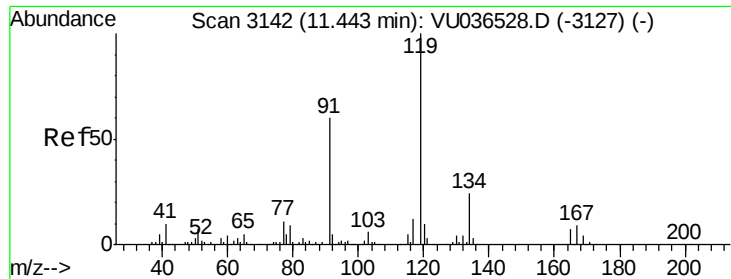
200000

100000

0

Time--> 11.10 11.20

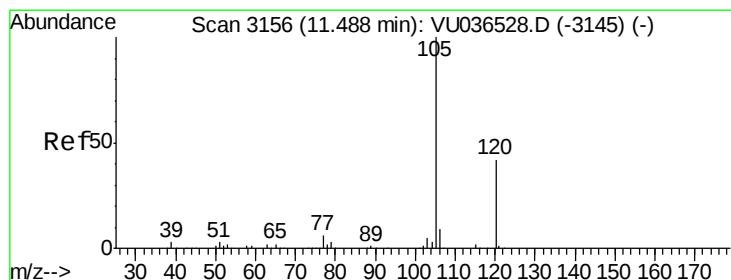
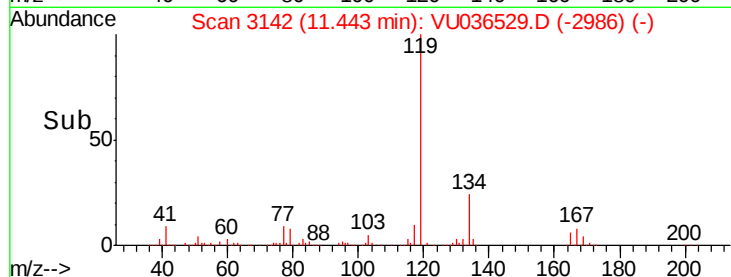
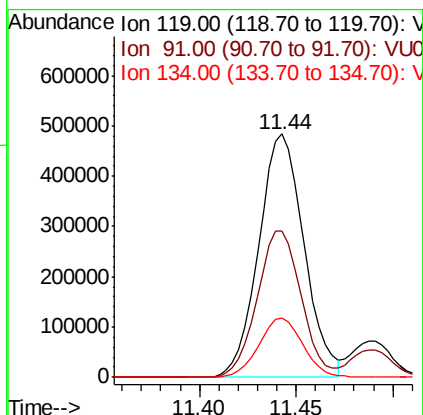
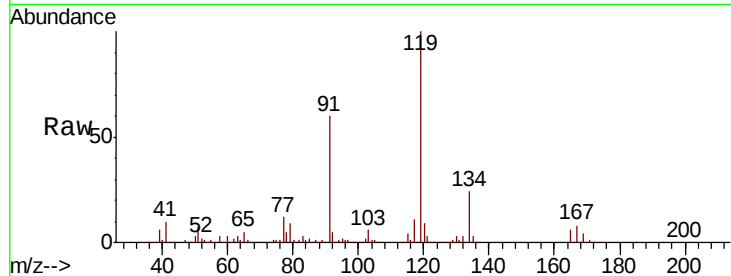




#77  
 tert-Butylbenzene  
 Concen: 19.917 ug/l  
 RT: 11.44 min Scan# 3142  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

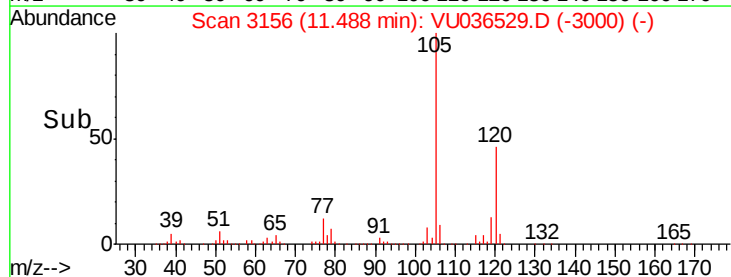
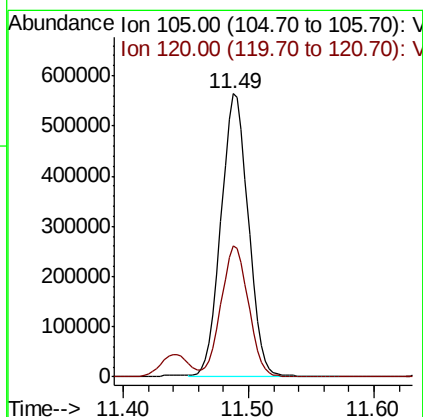
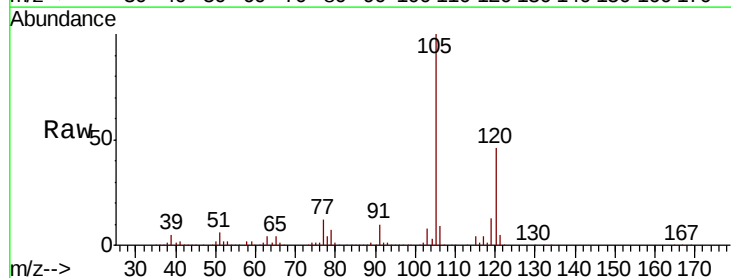
Instrument :  
 MSVOA\_U  
 ClientSampled :

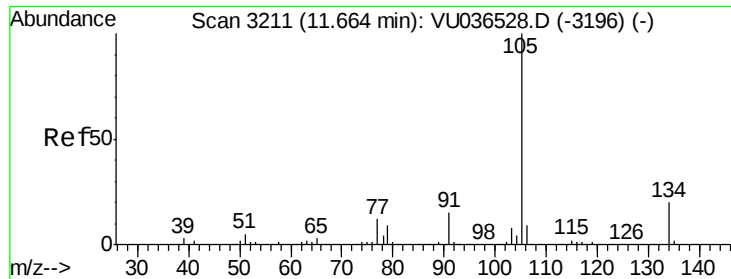
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 58.5  | 29.3  | 87.8  |
| 134     | 23.8  | 19.0  | 28.4  |



#78  
 1,2,4-Trimethylbenzene  
 Concen: 20.032 ug/l  
 RT: 11.49 min Scan# 3156  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.3  | 23.3  | 69.8  |

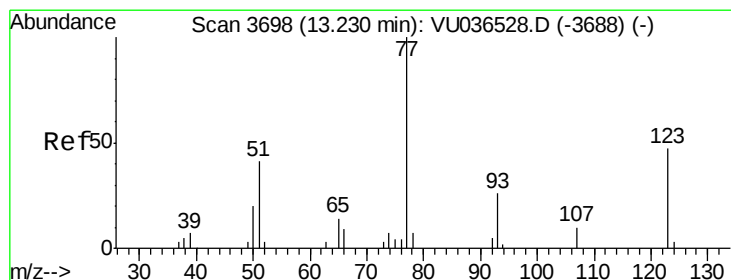
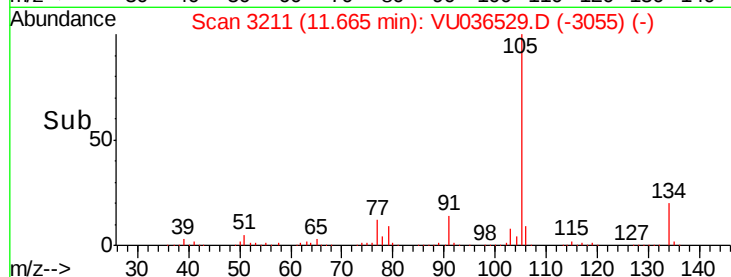
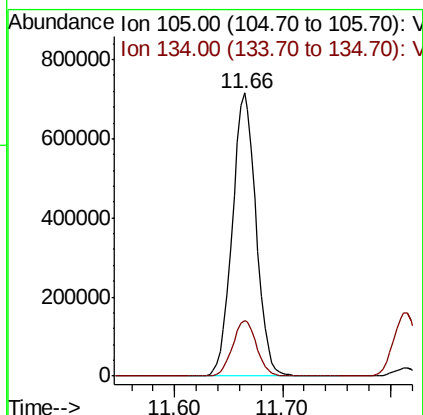
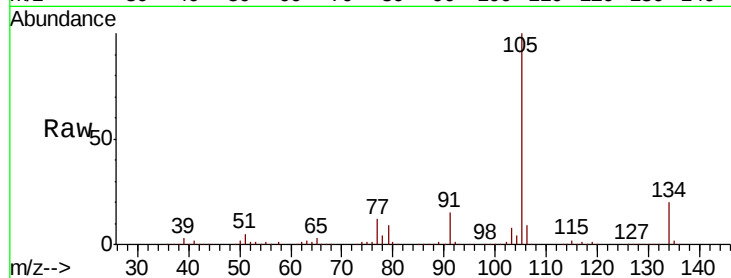




#79  
 sec-Butylbenzene  
 Concen: 20.008 ug/l  
 RT: 11.66 min Scan# 3211  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

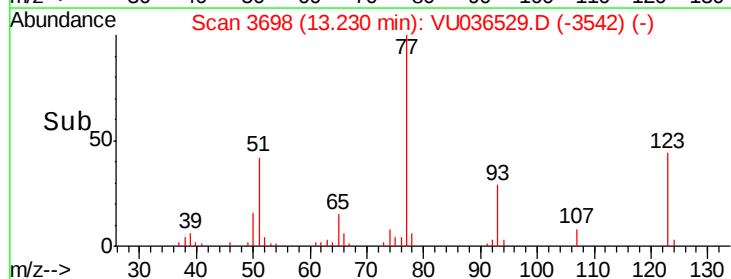
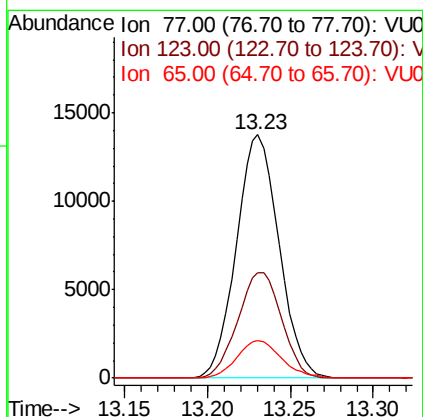
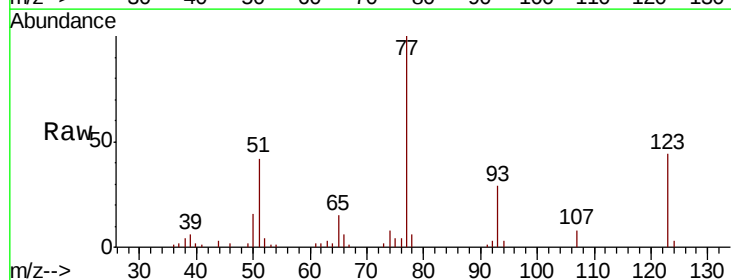
Instrument :  
 MSVOA\_U  
 ClientSampled :

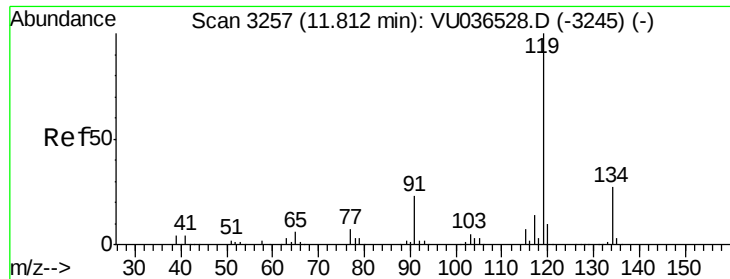
Tot Ion:105 Resp: 1096883  
 Ion Ratio Lower Upper  
 105 100  
 134 19.9 16.0 24.0



#80  
 Nitrobenzene  
 Concen: 138.355 ug/l  
 RT: 13.23 min Scan# 3698  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion: 77 Resp: 24590  
 Ion Ratio Lower Upper  
 77 100  
 123 44.5 19.6 69.6  
 65 16.0 12.7 16.1

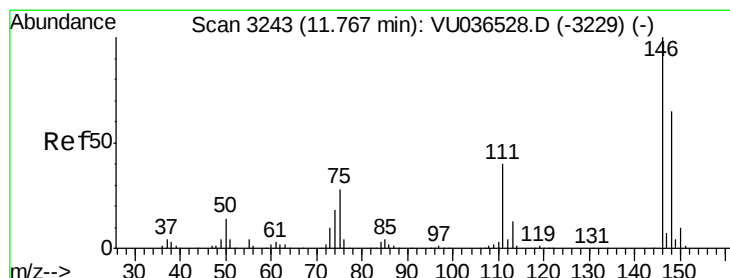
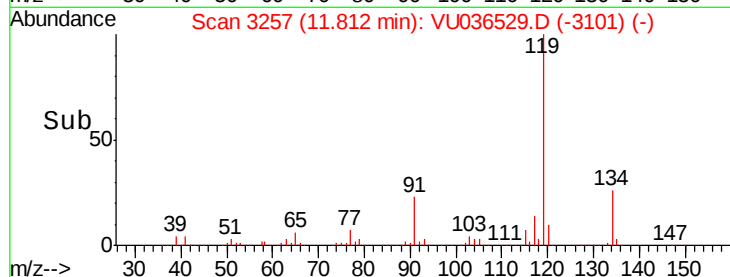
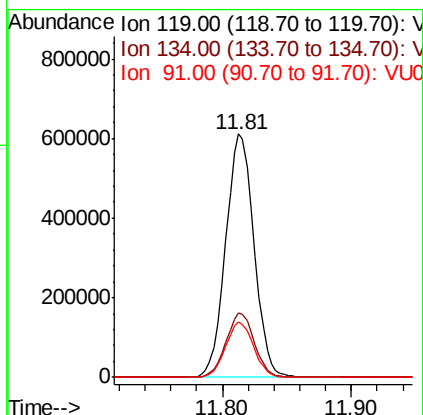
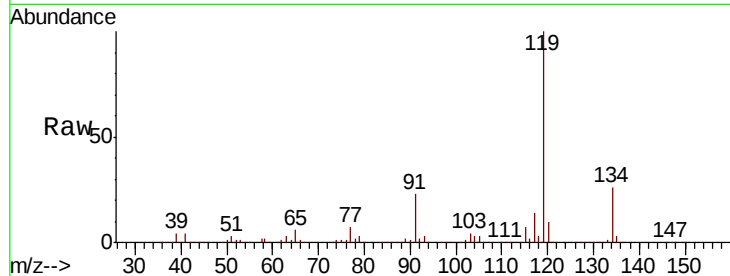




#81  
 p-Isopropyltoluene  
 Concen: 21.229 ug/l  
 RT: 11.81 min Scan# 3257  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

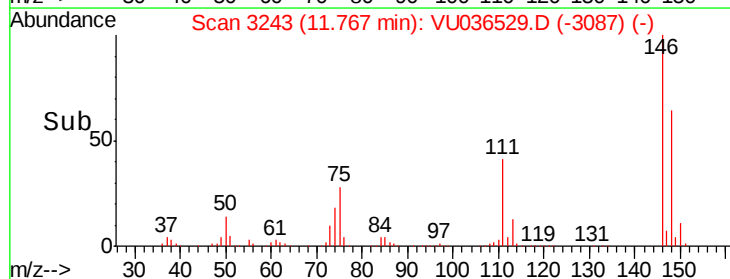
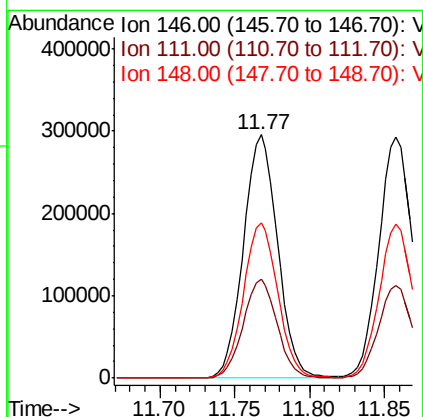
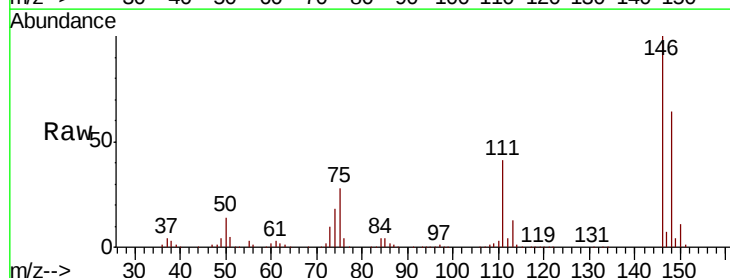
Instrument :  
 MSVOA\_U  
 ClientSampleId :

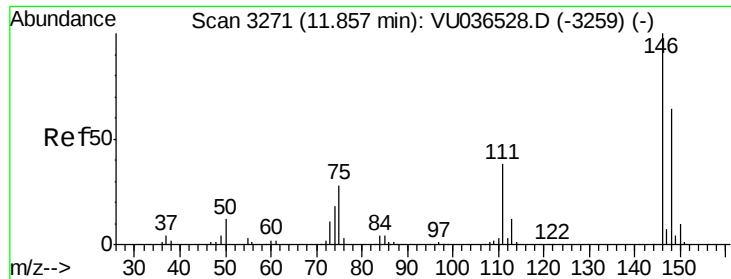
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.4  | 21.4  | 32.0  |
| 91      | 22.6  | 18.3  | 27.5  |



#82  
 1,3-Dichlorobenzene  
 Concen: 21.855 ug/l  
 RT: 11.77 min Scan# 3243  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.0  | 32.2  | 48.2  |
| 148     | 64.0  | 51.4  | 77.2  |

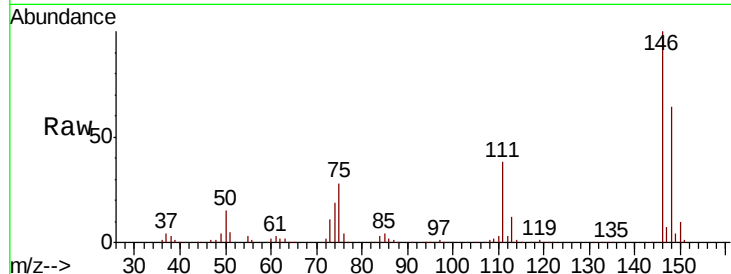




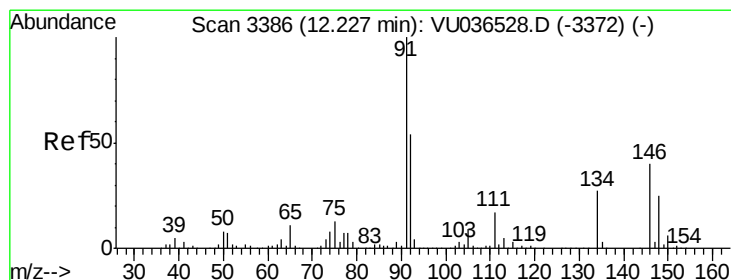
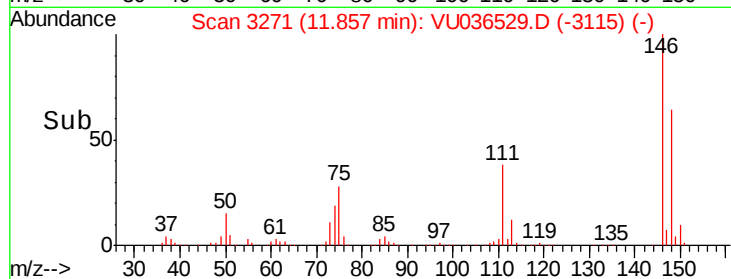
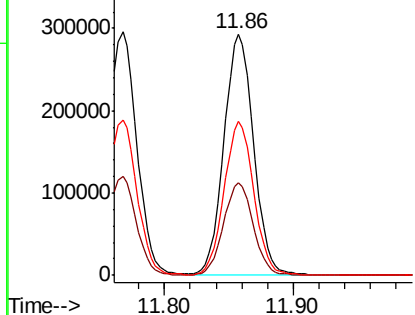
#83  
 1,4-Dichlorobenzene  
 Concen: 21.937 ug/l  
 RT: 11.86 min Scan# 3271  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Instrument :  
 MSVOA\_U  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.5  | 30.5  | 45.7  |
| 148     | 63.8  | 51.0  | 76.4  |

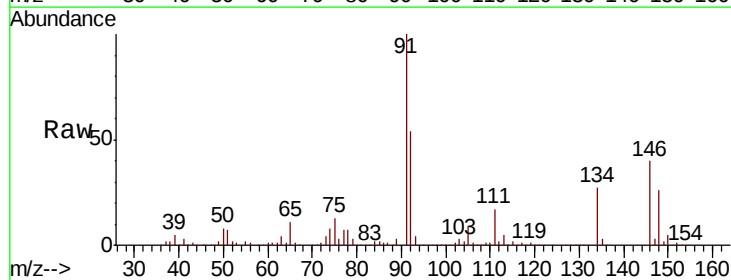


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

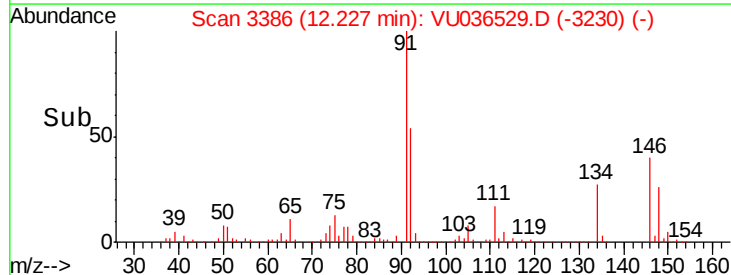
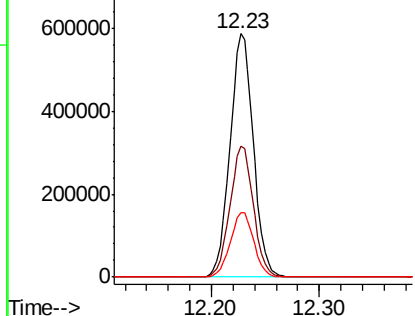


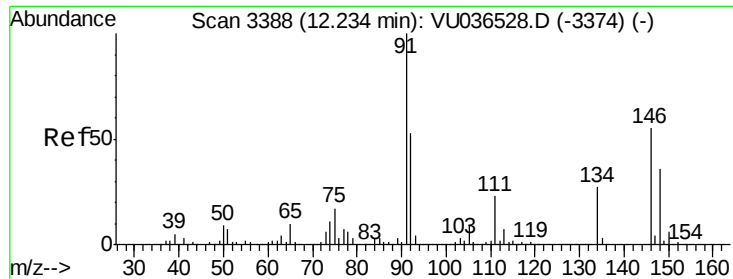
#84  
 n-Butylbenzene  
 Concen: 19.205 ug/l  
 RT: 12.23 min Scan# 3386  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 53.9  | 42.9  | 64.3  |
| 134     | 26.7  | 21.4  | 32.0  |



Abundance Ion 91.00 (90.70 to 91.70): VU0  
 Ion 92.00 (91.70 to 92.70): VU0  
 Ion 134.00 (133.70 to 134.70): V

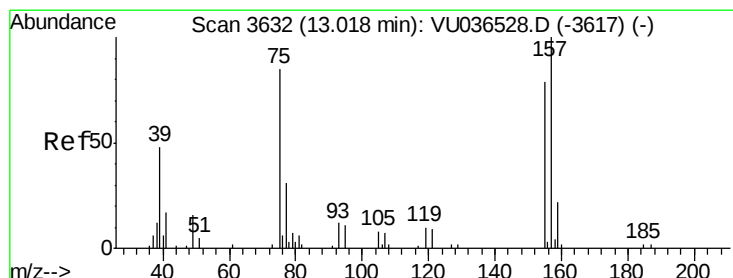
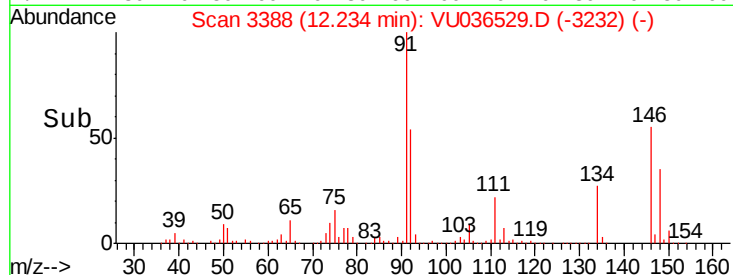
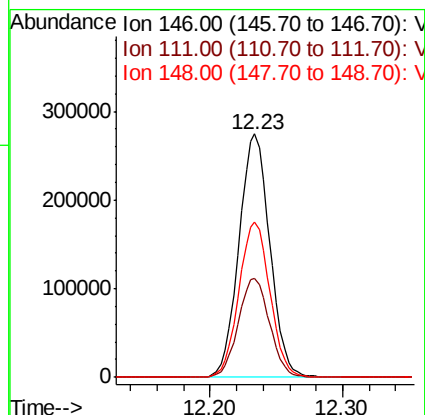
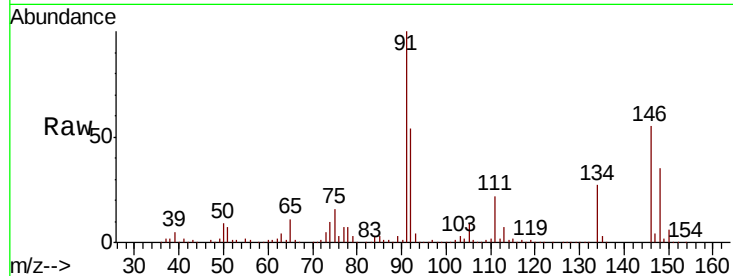




#85  
 1,2-Dichlorobenzene  
 Concen: 21.783 ug/l  
 RT: 12.23 min Scan# 3388  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

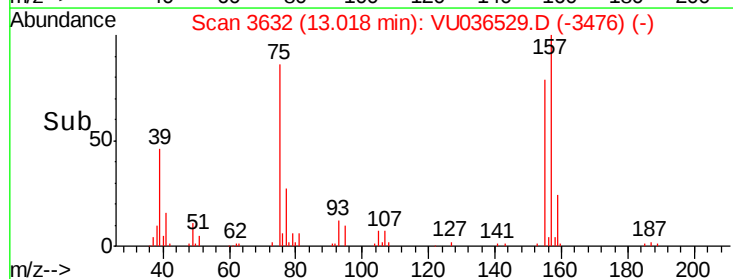
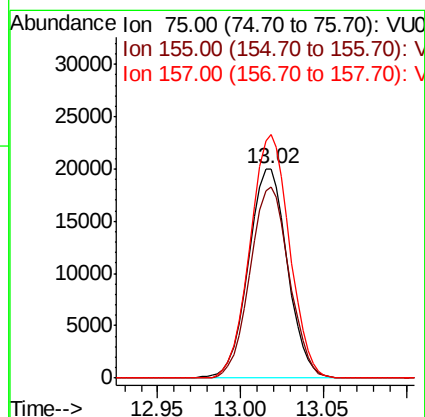
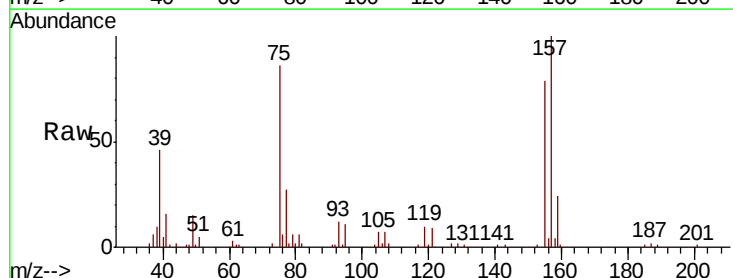
Instrument :  
 MSVOA\_U  
 ClientSampleId :

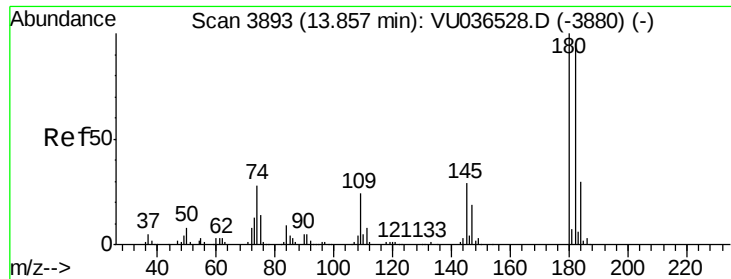
Tot Ion:146 Resp: 444148  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 20.8 62.4  
 148 64.2 32.0 96.2



#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 17.822 ug/l  
 RT: 13.02 min Scan# 3632  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Tgt Ion: 75 Resp: 32823  
 Ion Ratio Lower Upper  
 75 100  
 155 91.1 71.8 107.8  
 157 117.0 92.4 138.6

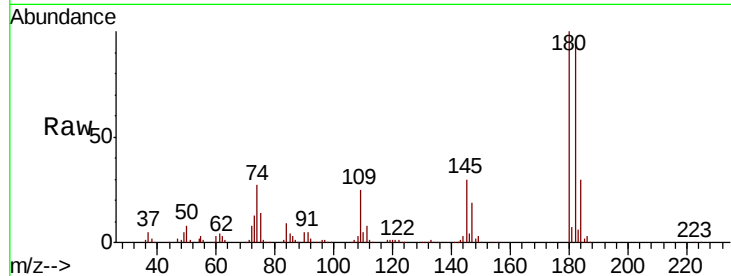




#87  
 1,2,4-Trichlorobenzene  
 Concen: 25.558 ug/l  
 RT: 13.86 min Scan# 3893  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

Instrument :  
 MSVOA\_U  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.7  | 75.9  | 113.9 |
| 145     | 29.9  | 23.4  | 35.2  |

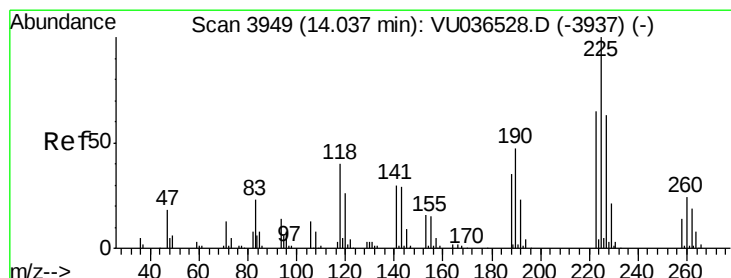
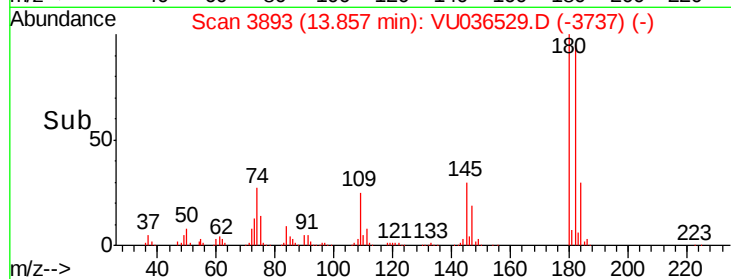
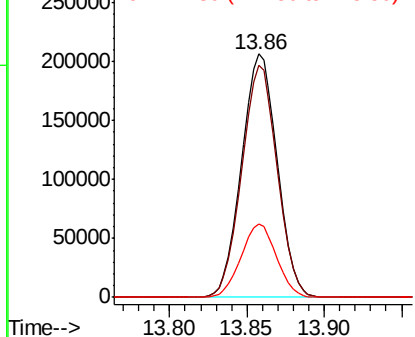


Abundance

Ion 179.70 (179.40 to 180.40): V

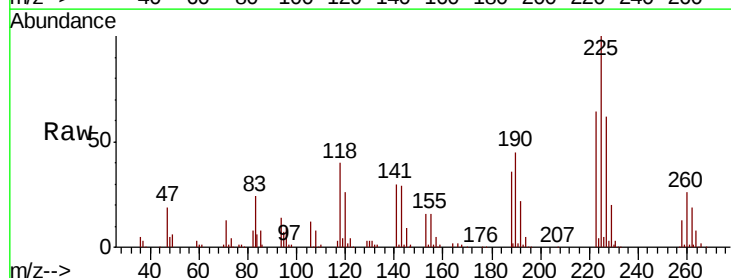
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#88  
 Hexachlorobutadiene  
 Concen: 26.170 ug/l  
 RT: 14.04 min Scan# 3949  
 Delta R.T. 0.00 min  
 Lab File: VU036529.D  
 Acq: 22 Jan 2020 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.3  | 51.7  | 77.5  |
| 227     | 62.9  | 50.6  | 75.8  |

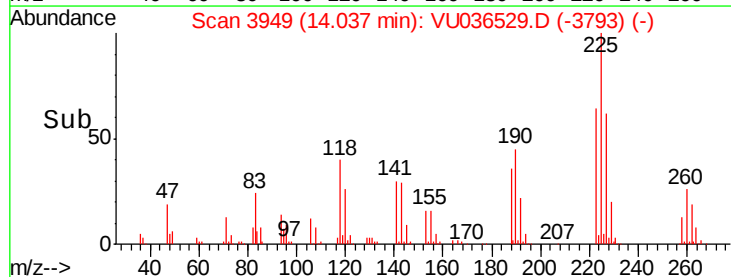
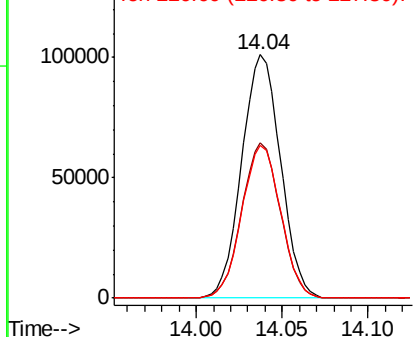


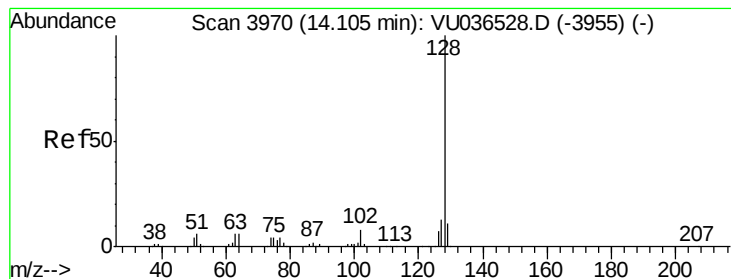
Abundance

Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V





#89

Naphthalene

Concen: 23.771 ug/l

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

Instrument :

MSVOA\_U

ClientSampled :

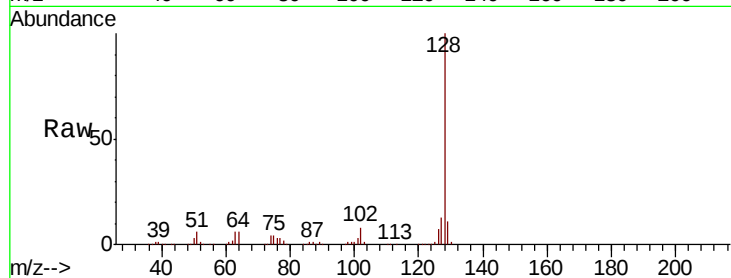
Tot Ion:128 Resp: 610549

Ion Ratio Lower Upper

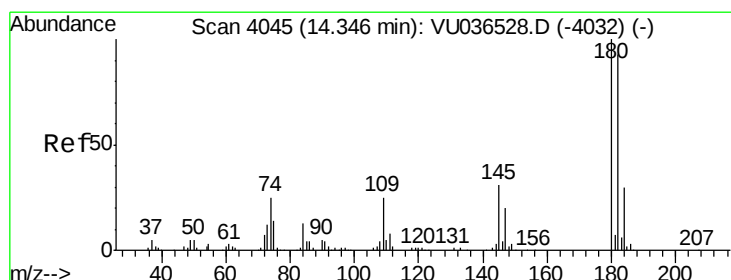
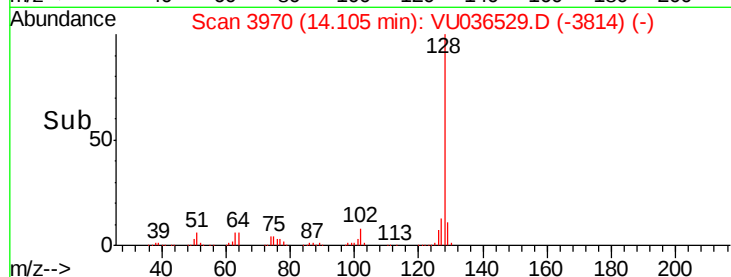
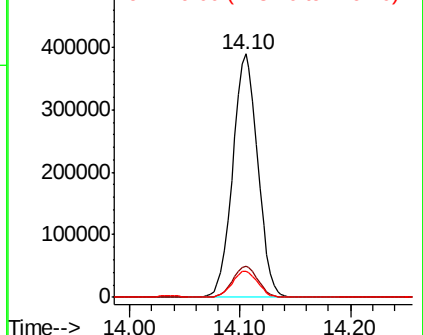
128 100

127 13.0 10.5 15.7

129 10.9 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



#90

1,2,3-Trichlorobenzene

Concen: 25.079 ug/l

RT: 14.35 min Scan# 4045

Delta R.T. 0.00 min

Lab File: VU036529.D

Acq: 22 Jan 2020 16:40

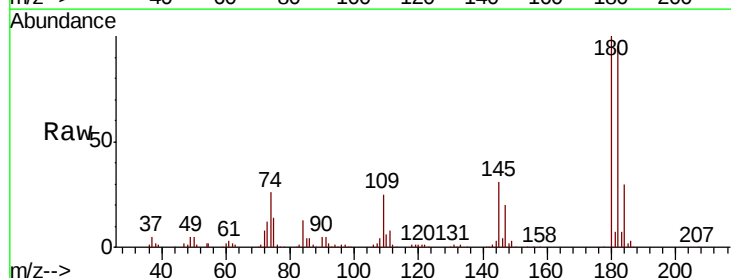
Tgt Ion:180 Resp: 298218

Ion Ratio Lower Upper

180 100

182 95.4 76.2 114.4

145 31.3 25.2 37.8



Abundance Ion 179.70 (179.40 to 180.40): V  
Ion 181.70 (181.40 to 182.40): V  
Ion 144.80 (144.50 to 145.50): V

