

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121418\  
 Data File : VU028677.D  
 Acq On : 13 Dec 2018 14:38  
 Operator : MD/SY  
 Sample : J6347-16MSD  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

Manual Integrations  
 APPROVED

MMDadoda

12/14/2018 9:32:32 AM

Quant Time: Dec 14 06:04:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U112618DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Nov 27 01:03:50 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|---------|---------|----------|
| -----                         | ----- | ----- | -----    | -----   | -----   | -----    |
| 1) Fluorobenzene              | 5.74  | 96    | 14067    | 1.00    | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |         |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 5389     | 1.04    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 104.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 5160     | 1.08    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 108.00% |          |
| Target Compounds              |       |       |          |         |         | Ovalue   |
| 2) Dichlorodifluoromethane    | 1.21  | 85    | 51745    | 10.226  | ug/l    | 100      |
| 3) Chloromethane              | 1.33  | 50    | 81249    | 9.434   | ug/l    | 100      |
| 4) Vinyl Chloride             | 1.40  | 62    | 61481    | 10.430  | ug/l    | 97       |
| 5) Bromomethane               | 1.61  | 94    | 24049    | 10.355  | ug/l    | 99       |
| 6) Chloroethane               | 1.69  | 64    | 33851    | 9.837   | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 1.88  | 101   | 68197    | 10.593  | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 39610    | 10.697  | ug/l    | 99       |
| 9) 1,1-Dichloroethene         | 2.28  | 96    | 35520    | 10.371  | ug/l    | 96       |
| 10) Iodomethane               | 2.41  | 142   | 39939    | 17.243  | ug/l    | 99       |
| 11) Allyl Chloride            | 2.59  | 41    | 83916    | 9.705   | ug/l    | 100      |
| 12) Acrylonitrile             | 2.94  | 53    | 22410    | 20.542  | ug/l    | 96       |
| 13) Acetone                   | 2.32  | 43    | 43998    | 43.521  | ug/l    | 99       |
| 14) Carbon Disulfide          | 2.48  | 76    | 129805   | 9.978   | ug/l    | 100      |
| 15) Methylene Chloride        | 2.70  | 84    | 42144    | 10.091  | ug/l    | 95       |
| 16) trans-1,2-Dichloroethene  | 2.98  | 96    | 39113    | 10.204  | ug/l    | 99       |
| 17) 1,1-Dichloroethane        | 3.44  | 63    | 85892    | 10.052  | ug/l    | 99       |
| 18) 2-Butanone                | 4.28  | 43    | 77739    | 51.460  | ug/l    | 100      |
| 19) Cyclohexane               | 4.98  | 56    | 72300    | 9.747   | ug/l    | 97       |
| 20) Methylcyclohexane         | 6.40  | 83    | 66855    | 9.207   | ug/l    | 98       |
| 21) 2,2-Dichloropropane       | 4.22  | 77    | 67551    | 9.850   | ug/l    | 98       |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96    | 44431    | 9.906   | ug/l    | 99       |
| 23) Diethyl Ether             | 2.10  | 59    | 35153    | 10.239  | ug/l    | 99       |
| 24) tert-Butyl Alcohol        | 2.84  | 59    | 35492    | 102.992 | ug/l    | 99       |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73    | 104897   | 10.311  | ug/l    | 98       |
| 26) Bromochloromethane        | 4.55  | 128   | 16914    | 9.892   | ug/l    | 97       |
| 27) Chloroform                | 4.67  | 83    | 77129    | 9.360   | ug/l    | 100      |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97    | 63889    | 9.928   | ug/l    | 99       |
| 29) 1,1-Dichloropropene       | 5.13  | 75    | 59741    | 9.677   | ug/l    | 99       |
| 30) Carbon Tetrachloride      | 5.12  | 117   | 50613    | 9.740   | ug/l    | 99       |
| 31) Isopropyl Ether           | 3.58  | 45    | 154863   | 10.121  | ug/l    | 99       |
| 32) Ethyl-t-butyl ether       | 4.08  | 59    | 126510   | 10.038  | ug/l    | 99       |
| 33) Tert-Amyl methyl ether    | 5.59  | 73    | 101642   | 9.722   | ug/l    | 100      |
| 34) Propionitrile             | 4.33  | 54    | 21622    | 56.975  | ug/l #  | 97       |
| 35) Benzene                   | 5.38  | 78    | 171046   | 9.412   | ug/l    | 99       |
| 36) 1,2-Dichloroethane        | 5.40  | 62    | 54046    | 9.943   | ug/l    | 99       |
| 37) Trichloroethene           | 6.18  | 130   | 47473    | 11.993  | ug/l    | 98       |
| 38) 1,2-Dichloropropane       | 6.43  | 63    | 49304    | 9.513   | ug/l    | 98       |
| 39) Methacrylonitrile         | 4.55  | 41    | 20201    | 9.937   | ug/l    | 98       |
| 40) Methyl acrylate           | 4.43  | 55    | 29313    | 10.482  | ug/l #  | 97       |
| 41) Tetrahydrofuran           | 4.66  | 42    | 20691    | 20.250  | ug/l    | 99       |
| 42) 1-Chlorobutane            | 5.06  | 56    | 92973    | 9.474   | ug/l    | 98       |

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 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

Manual Integrations  
 APPROVED

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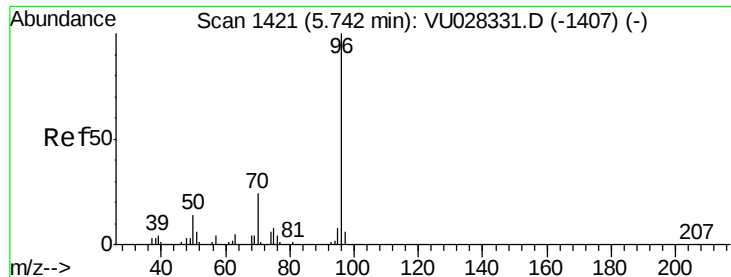
12/14/2018 9:32:32 AM

Quant Time: Dec 14 06:04:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U112618DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Nov 27 01:03:50 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 21688    | 9.830  | ug/l   | 98       |
| 44) Bromodichloromethane       | 6.76  | 83   | 55864    | 9.589  | ug/l   | 94       |
| 45) 4-Methyl-2-Pentanone       | 7.48  | 43   | 177565   | 50.107 | ug/l   | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.52 | 75   | 25395m   | 19.593 | ug/l   |          |
| 47) Methyl methacrylate        | 6.63  | 69   | 45911    | 20.387 | ug/l   | 98       |
| 48) Ethyl methacrylate         | 8.03  | 69   | 44883    | 9.964  | ug/l   | 96       |
| 49) Toluene                    | 7.63  | 92   | 99093    | 9.818  | ug/l   | 98       |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 53782    | 9.612  | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 65123    | 9.425  | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 31559    | 10.189 | ug/l   | 99       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 58008    | 10.026 | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.37  | 43   | 126788   | 49.735 | ug/l   | 99       |
| 55) Dibromochloromethane       | 8.48  | 129  | 33466    | 10.158 | ug/l   | 100      |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 29001    | 10.279 | ug/l   | 98       |
| 58) Tetrachloroethene          | 8.22  | 164  | 33649    | 9.285  | ug/l   | 97       |
| 59) Chlorobenzene              | 9.12  | 112  | 104845   | 9.983  | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 36139    | 10.154 | ug/l   | 99       |
| 61) Pentachloroethane          | 11.10 | 117  | 32414    | 11.703 | ug/l   | 99       |
| 62) Hexachloroethane           | 12.14 | 117  | 29200    | 11.251 | ug/l   | 97       |
| 63) Ethyl Benzene              | 9.25  | 91   | 197279   | 10.180 | ug/l   | 100      |
| 64) m/p-Xylenes                | 9.37  | 106  | 147812   | 21.077 | ug/l   | 100      |
| 65) o-Xylene                   | 9.78  | 106  | 70469    | 10.413 | ug/l   | 98       |
| 66) Styrene                    | 9.79  | 104  | 125374   | 10.801 | ug/l   | 98       |
| 67) Bromoform                  | 9.96  | 173  | 19211    | 10.404 | ug/l   | 98       |
| 69) Isopropylbenzene           | 10.17 | 105  | 187542   | 10.349 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 45139    | 10.864 | ug/l   | 100      |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 29039    | 10.026 | ug/l # | 94       |
| 72) Bromobenzene               | 10.45 | 156  | 43411    | 10.793 | ug/l   | 99       |
| 73) n-propylbenzene            | 10.59 | 120  | 51303    | 10.916 | ug/l   | 97       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 45154    | 10.964 | ug/l   | 95       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 165697   | 10.864 | ug/l   | 98       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 44973    | 10.771 | ug/l   | 99       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 156436   | 10.895 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 169622   | 10.853 | ug/l   | 99       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 216548   | 10.818 | ug/l   | 99       |
| 80) Nitrobenzene               | 12.86 | 77   | 11210    | 59.890 | ug/l   | 99       |
| 81) p-Isopropyltoluene         | 11.48 | 119  | 172938   | 10.872 | ug/l   | 100      |
| 82) 1,3-Dichlorobenzene        | 11.41 | 146  | 89636    | 11.126 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 89483    | 11.159 | ug/l   | 99       |
| 84) n-Butylbenzene             | 11.89 | 91   | 181112   | 10.845 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 85269    | 11.119 | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 7125     | 10.660 | ug/l   | 95       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 56537    | 10.488 | ug/l   | 99       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 31318    | 10.737 | ug/l   | 99       |
| 89) Naphthalene                | 13.74 | 128  | 113376   | 10.642 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 54504    | 10.723 | ug/l   | 99       |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

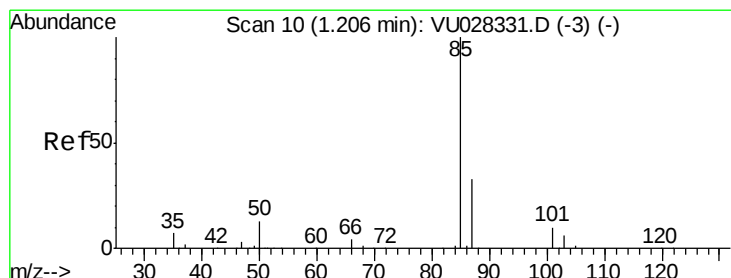
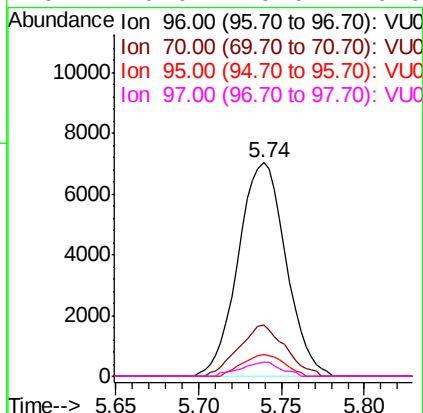
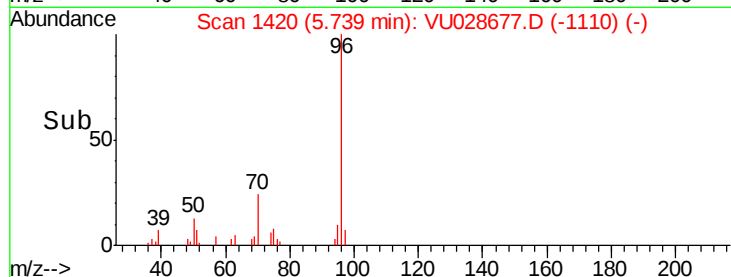
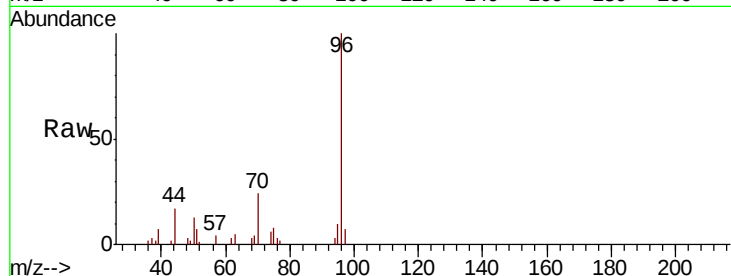
P001-TW001-01MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 14067 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 23.3  | 17.8  | 26.8  |
| 95       | 8.9   | 7.6   | 11.4  |
| 97       | 0.0   | 0.0   | 0.0   |

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#2

Dichlorodifluoromethane

Concen: 10.226 ug/l

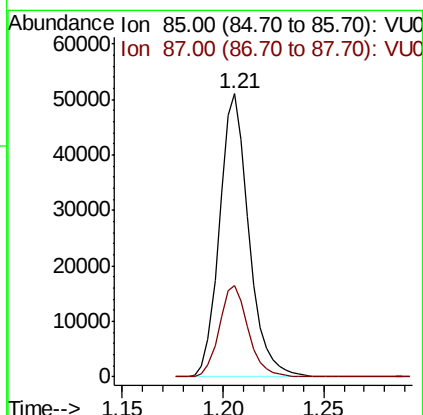
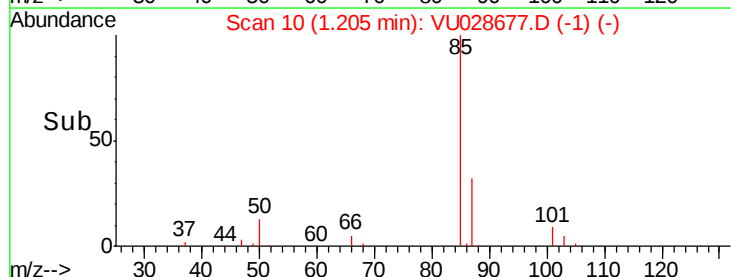
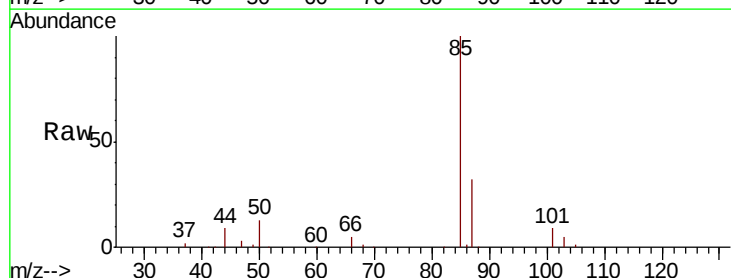
RT: 1.21 min Scan# 10

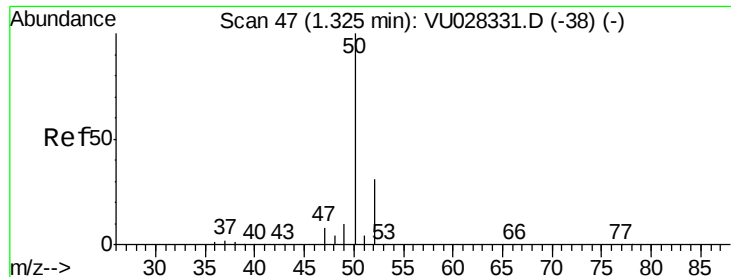
Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 85    | Resp: | 51745 |
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 32.4  | 16.3  | 48.8  |





#3

Chloromethane

Concen: 9.434 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 50 Resp: 81249

Ion Ratio Lower Upper

50 100

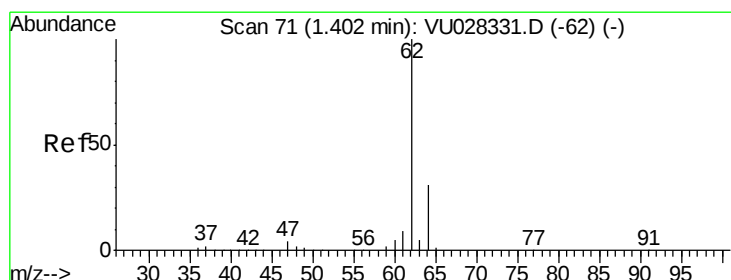
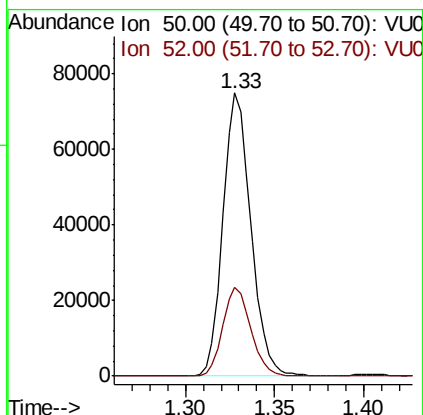
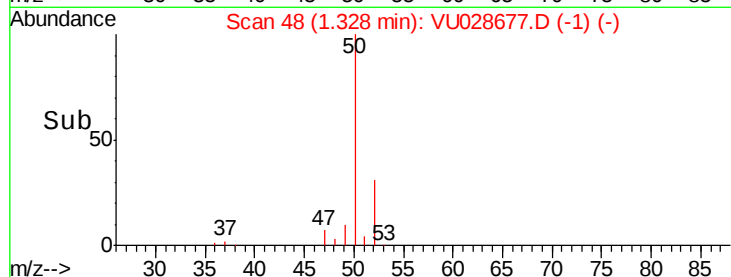
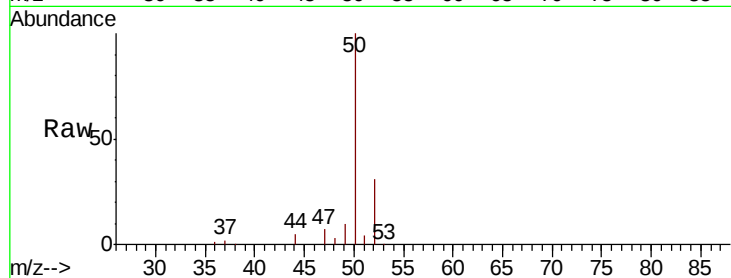
52 31.4 25.1 37.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 10.430 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028677.D

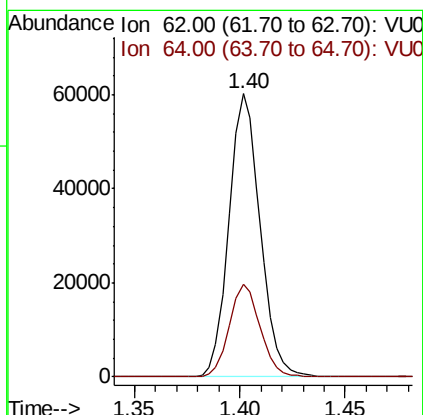
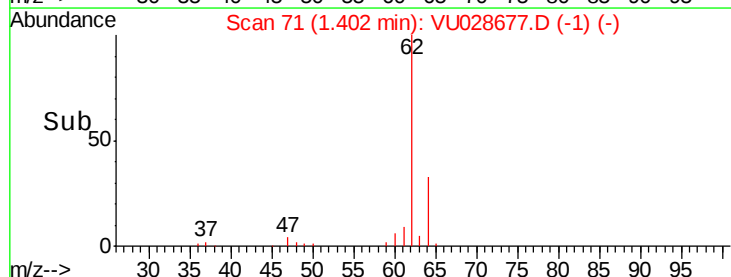
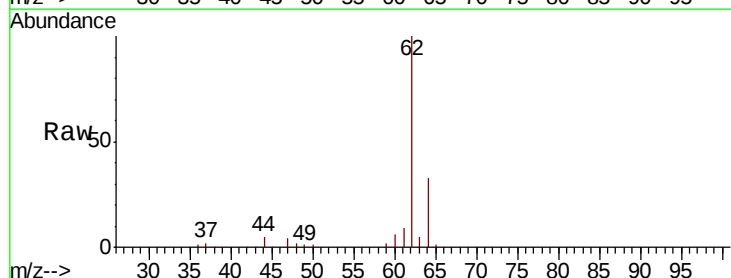
Acq: 13 Dec 2018 14:38

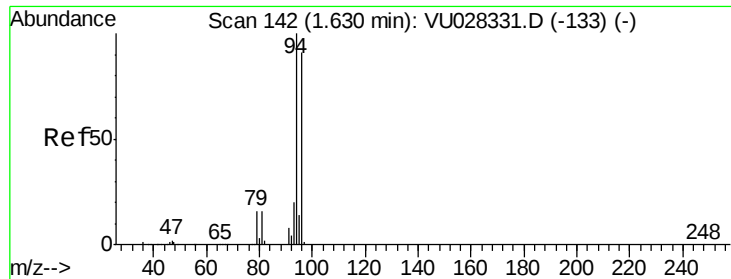
Tgt Ion: 62 Resp: 61481

Ion Ratio Lower Upper

62 100

64 32.6 24.7 37.1





#5

Bromomethane

Concen: 10.355 ug/l

RT: 1.61 min Scan# 135

Delta R.T. -0.02 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 94 Resp: 24049

Ion Ratio Lower Upper

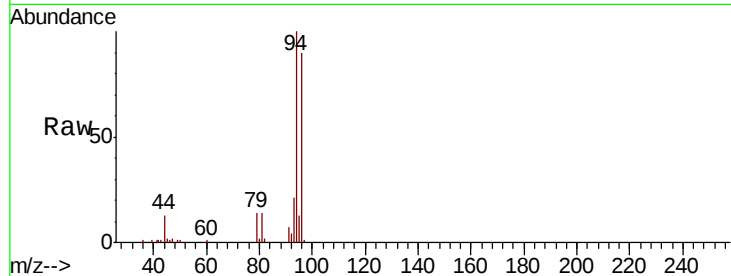
94 100

96 90.0 73.1 109.7

Manual Integrations  
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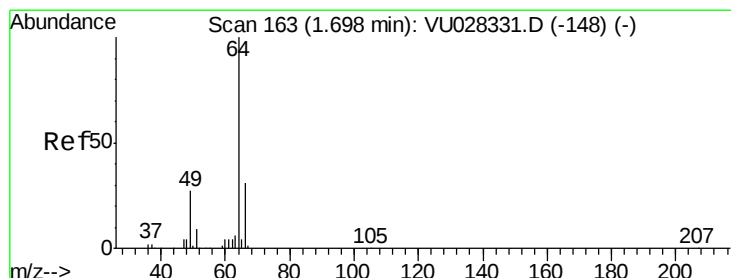
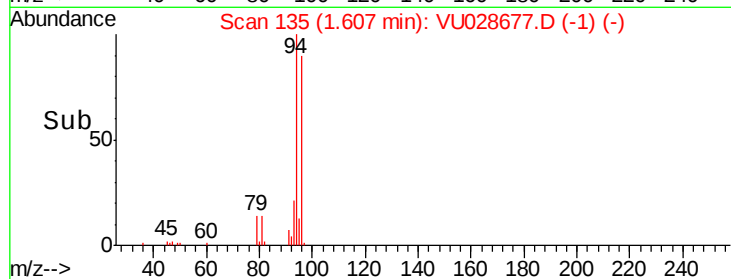
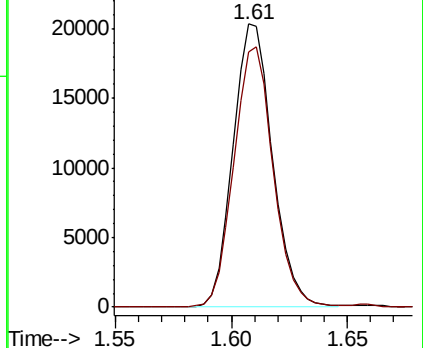
MMDadoda

12/14/2018 9:32:32 AM



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 9.837 ug/l

RT: 1.69 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU028677.D

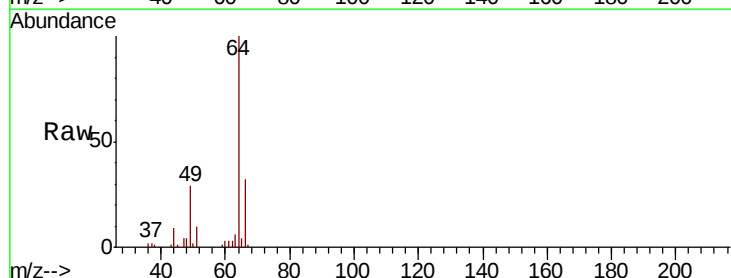
Acq: 13 Dec 2018 14:38

Tgt Ion: 64 Resp: 33851

Ion Ratio Lower Upper

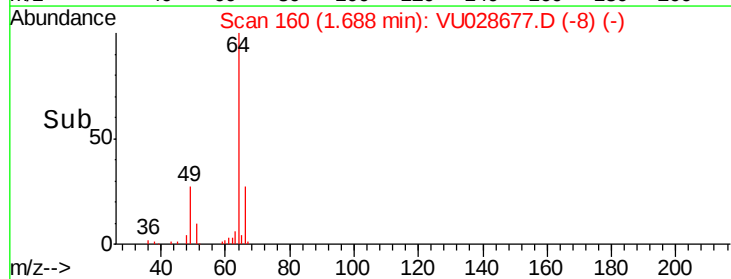
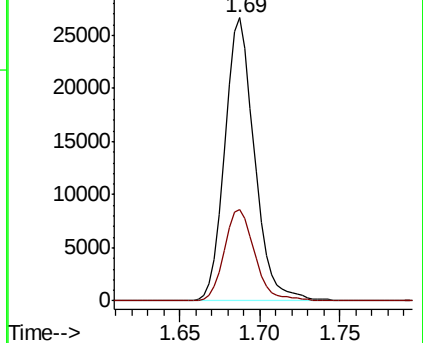
64 100

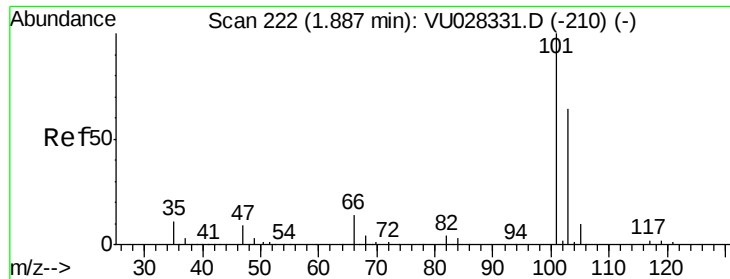
66 32.3 25.1 37.7



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

Trichlorofluoromethane  
 Concen: 10.593 ug/l  
 RT: 1.88 min Scan# 220  
 Delta R.T. -0.01 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

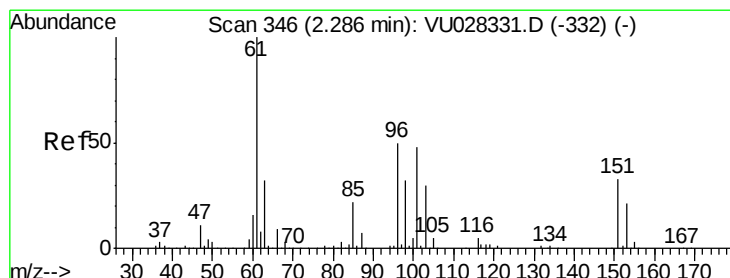
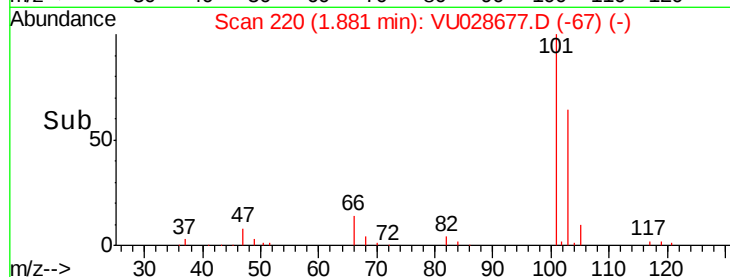
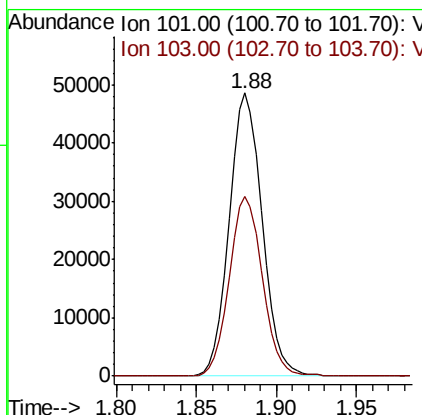
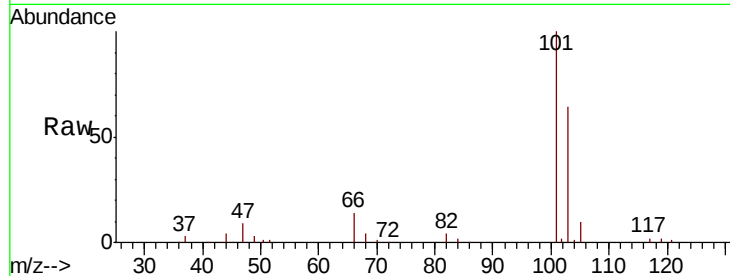
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 101     | 100  |       | 68197 |       |       |
| 103     | 63.6 | 51.4  | 77.0  |       |       |

Manual Integrations  
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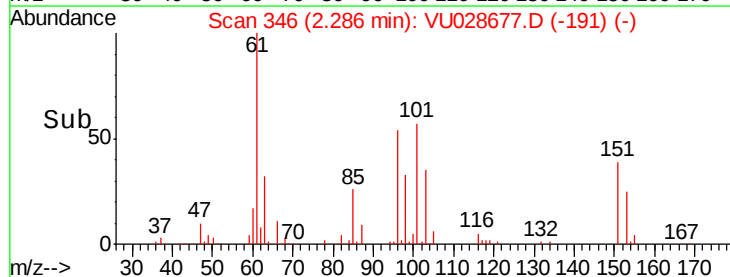
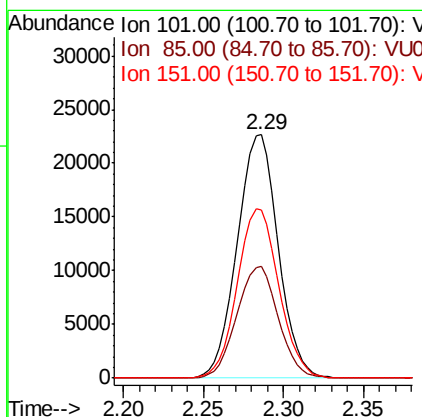
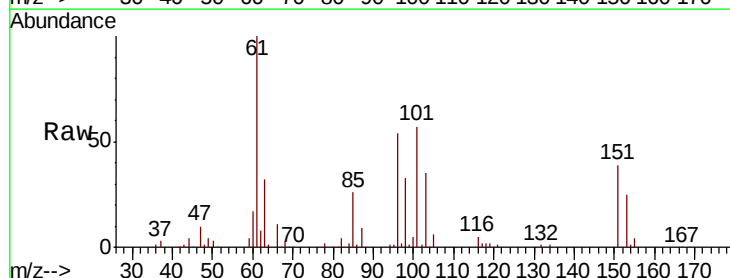
12/14/2018 9:32:32 AM

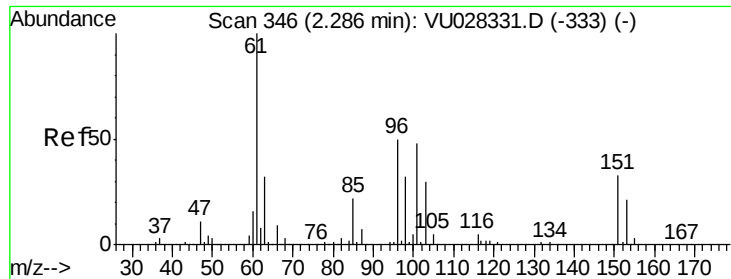


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 10.697 ug/l  
 RT: 2.29 min Scan# 346  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 101     | 100  |       | 39610 |       |       |
| 85      | 46.2 | 36.7  | 55.1  |       |       |
| 151     | 70.2 | 55.8  | 83.6  |       |       |





#9

1,1-Dichloroethene

Concen: 10.371 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

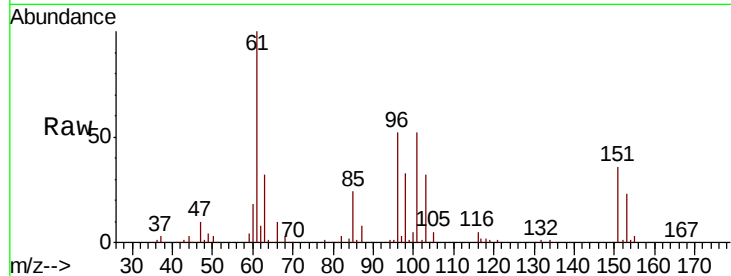
P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 96    | Resp: | 35520 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 191.1 | 0.0   | 597.6 |
| 98        | 63.7  | 0.0   | 127.6 |

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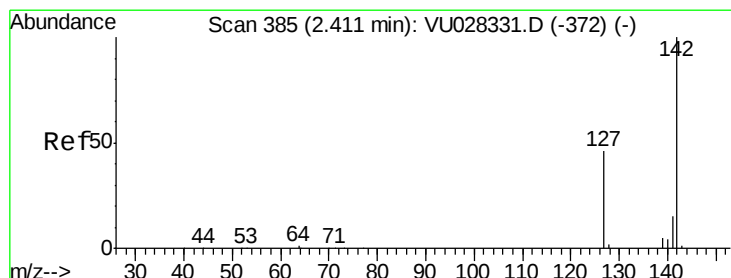
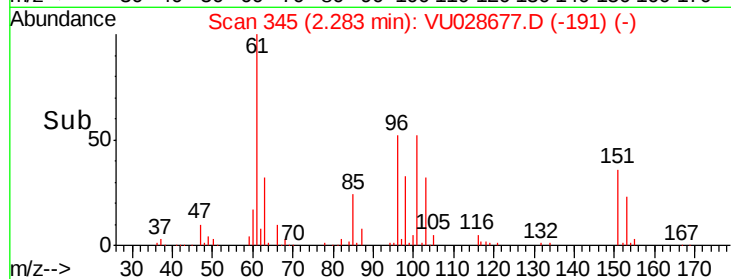
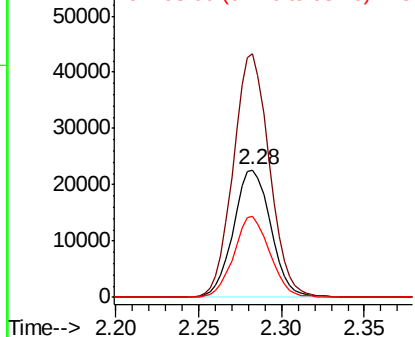


Abundance

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: 17.243 ug/l

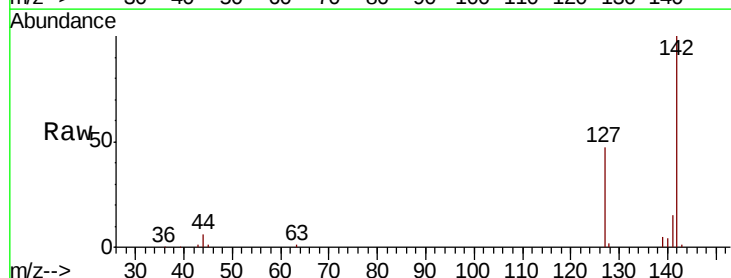
RT: 2.41 min Scan# 384

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

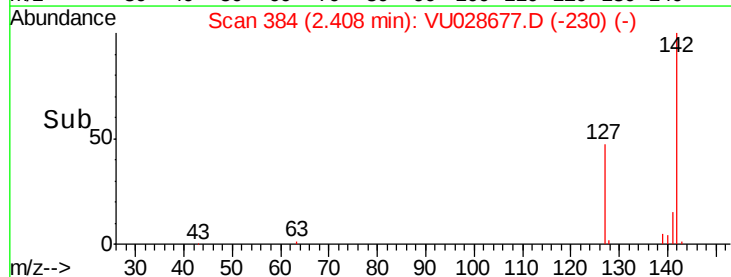
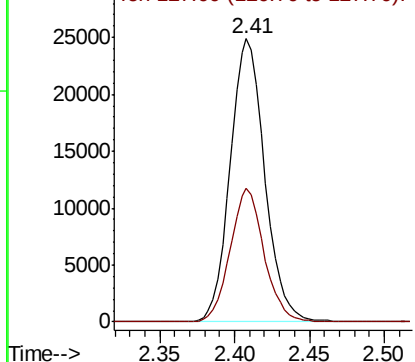
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 39939 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 46.2  | 36.4  | 54.6  |

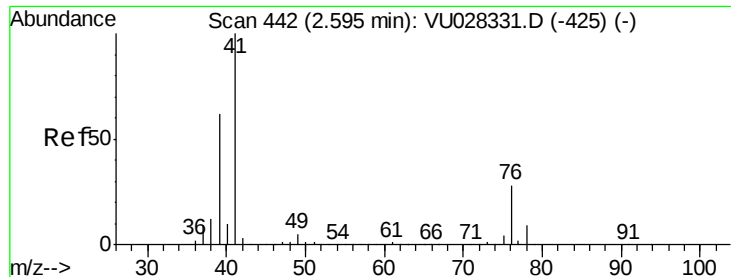


Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V





#11

Allvl Chloride

Concen: 9.705 ug/l

RT: 2.59 min Scan# 440

Delta R.T. -0.01 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 41 Resp: 83916

Ion Ratio Lower Upper

41 100

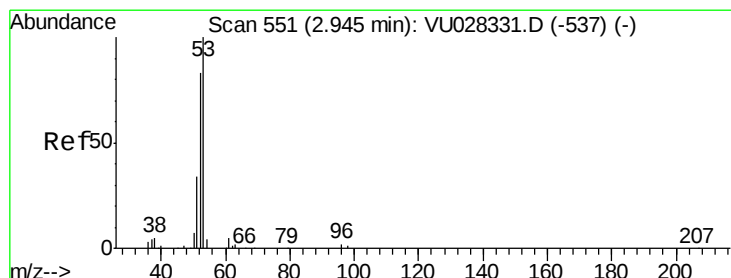
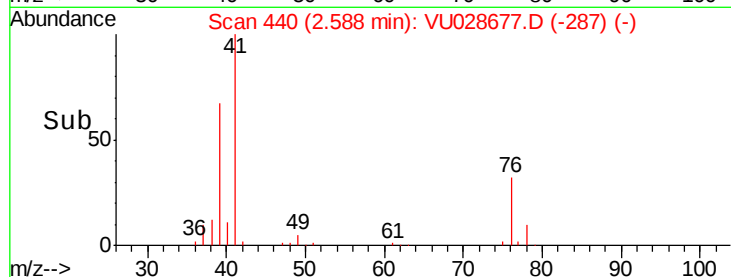
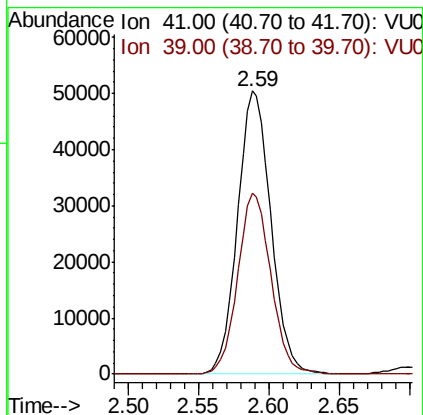
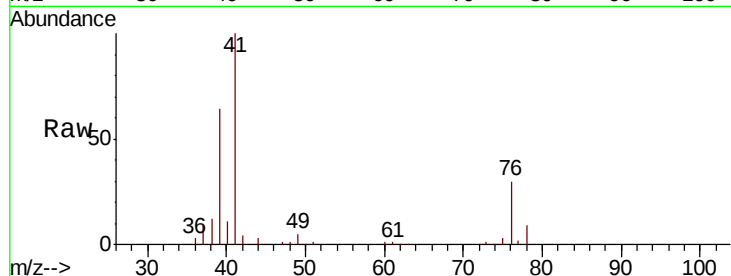
39 63.7 50.8 76.2

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#12

Acrylonitrile

Concen: 20.542 ug/l

RT: 2.94 min Scan# 548

Delta R.T. -0.01 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

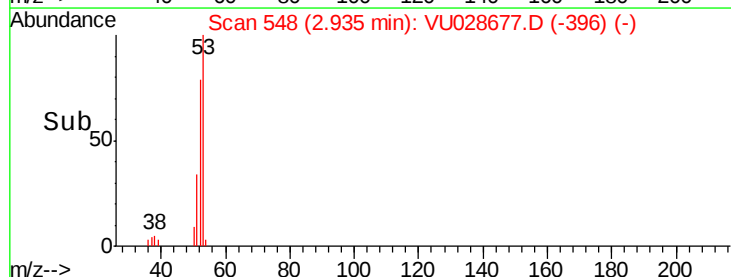
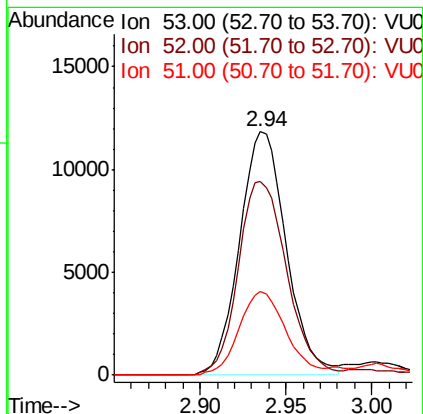
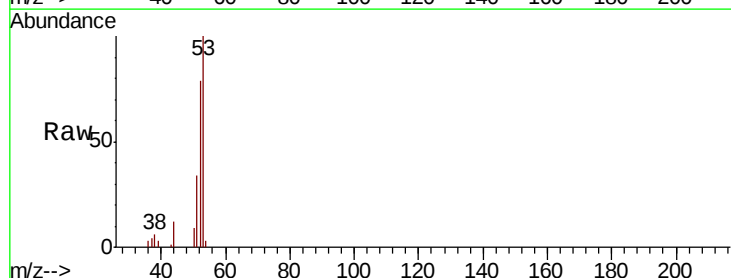
Tgt Ion: 53 Resp: 22410

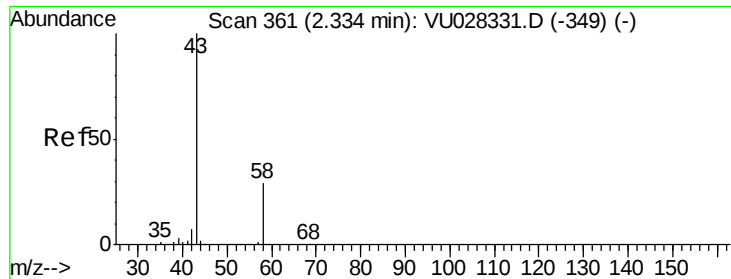
Ion Ratio Lower Upper

53 100

52 82.3 69.3 103.9

51 34.2 27.8 41.8





#13

Acetone

Concen: 43.521 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.01 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 43 Resp: 43998

Ion Ratio Lower Upper

43 100

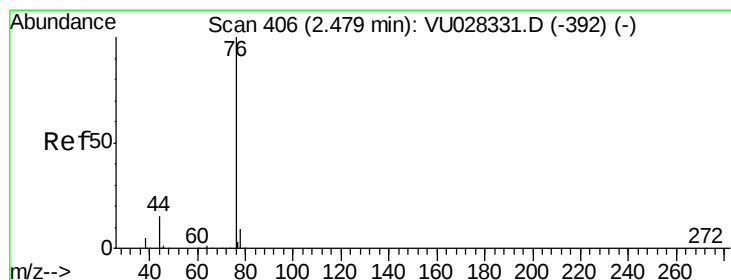
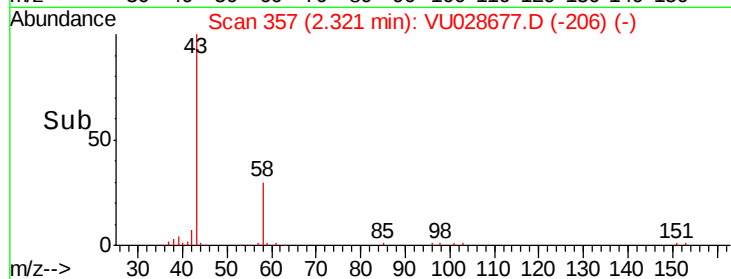
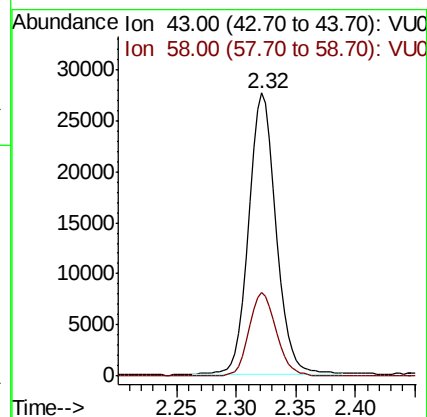
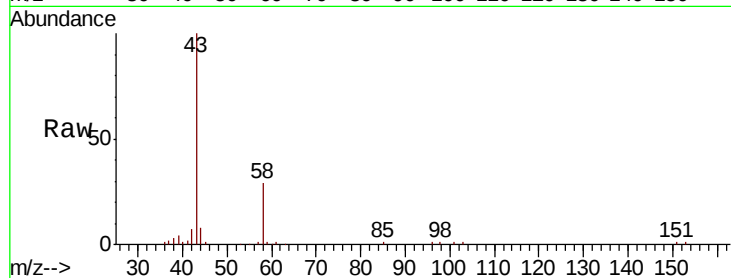
58 29.6 23.1 34.7

Manual Integrations

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#14

Carbon Disulfide

Concen: 9.978 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028677.D

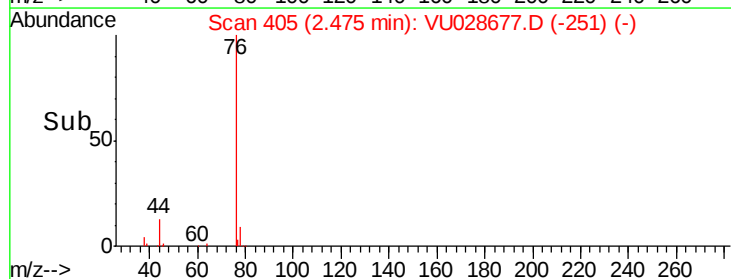
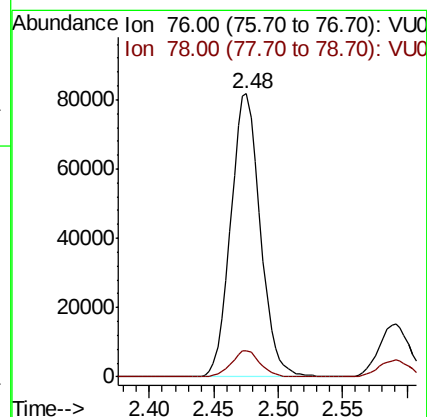
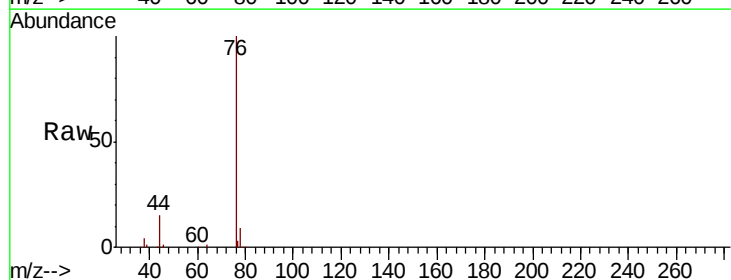
Acq: 13 Dec 2018 14:38

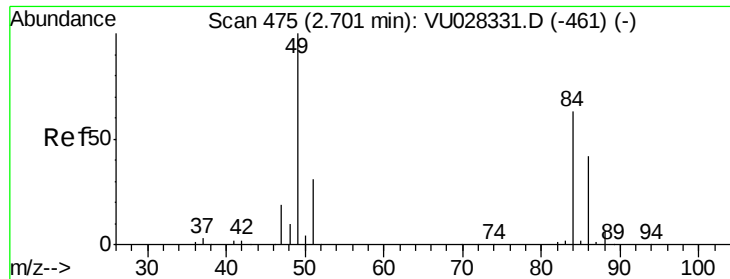
Tgt Ion: 76 Resp: 129805

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2





#15  
Methvlene Chloride  
Concen: 10.091 ug/l  
RT: 2.70 min Scan# 474  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

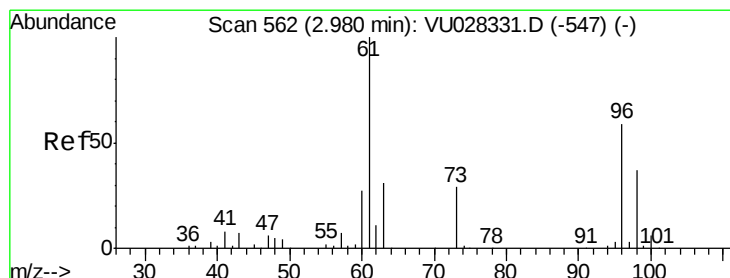
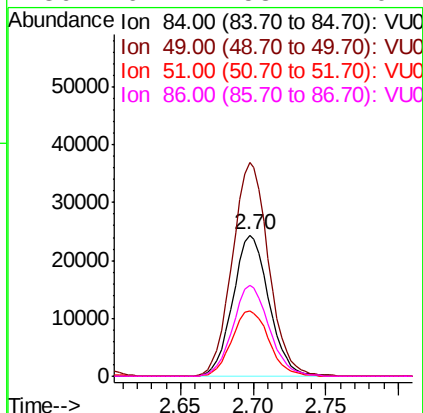
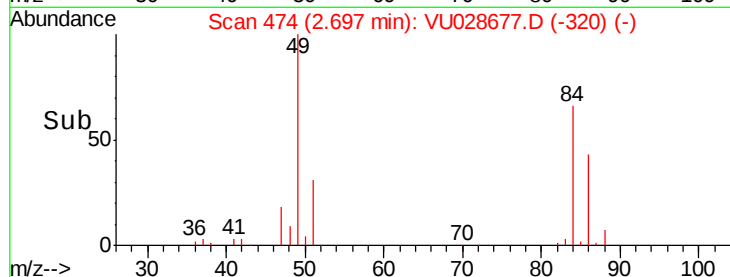
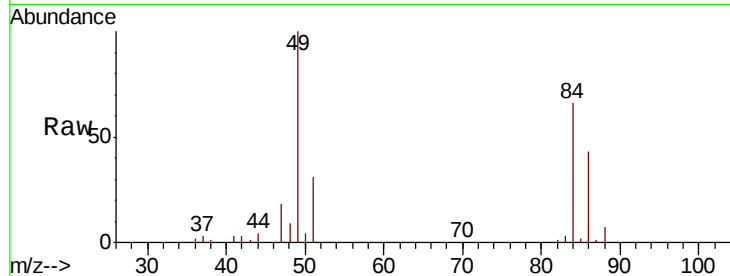
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 42144 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 151.0 | 127.7 | 191.5 |
| 51       | 46.3  | 0.0   | 98.2  |
| 86       | 64.7  | 53.1  | 79.7  |

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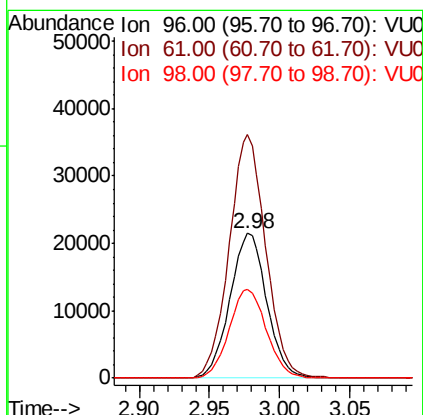
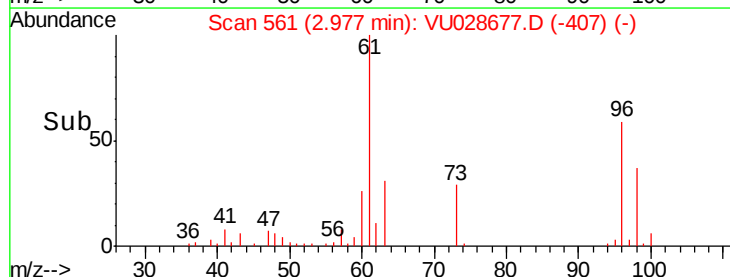
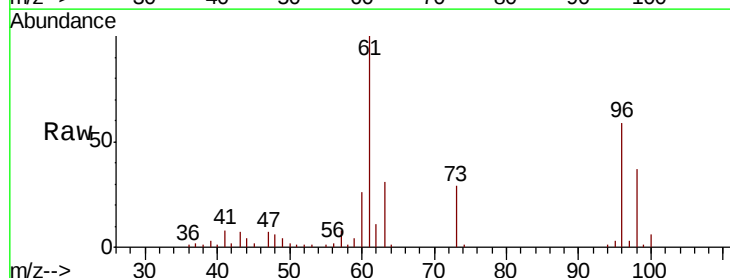
MMDadoda

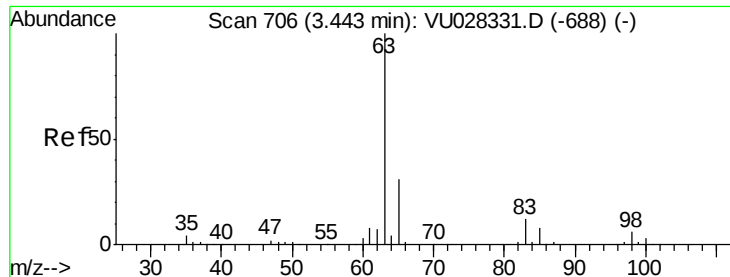
12/14/2018 9:32:32 AM



#16  
trans-1,2-Dichloroethene  
Concen: 10.204 ug/l  
RT: 2.98 min Scan# 561  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 39113 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 168.2 | 136.4 | 204.6 |
| 98       | 61.7  | 49.8  | 74.8  |





#17  
 1,1-Dichloroethane  
 Concen: 10.052 ug/l  
 RT: 3.44 min Scan# 705  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

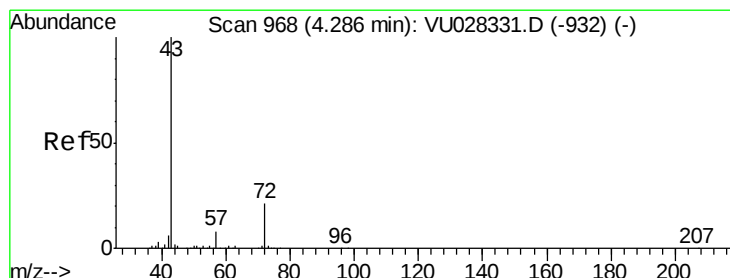
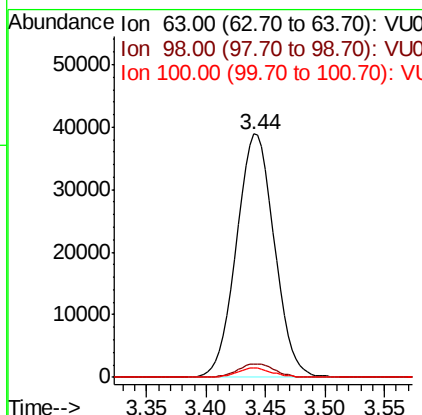
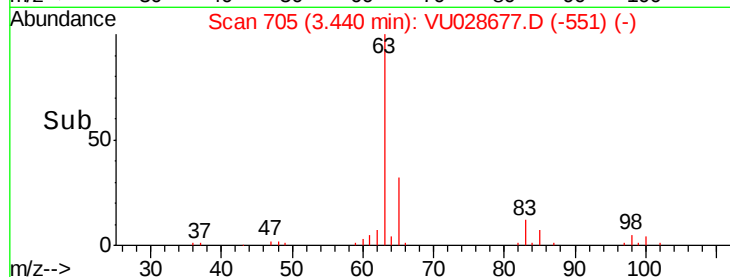
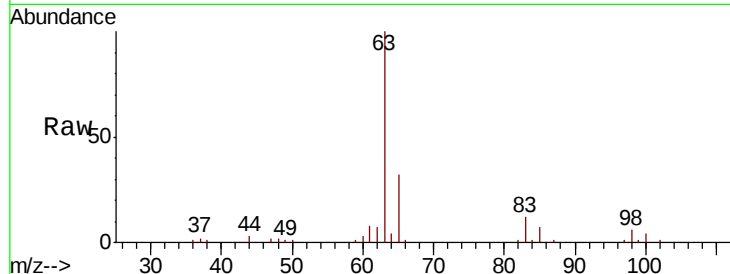
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 85892 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 98        | 5.5   | 3.0   | 9.0   |
| 100       | 4.0   | 1.8   | 5.3   |

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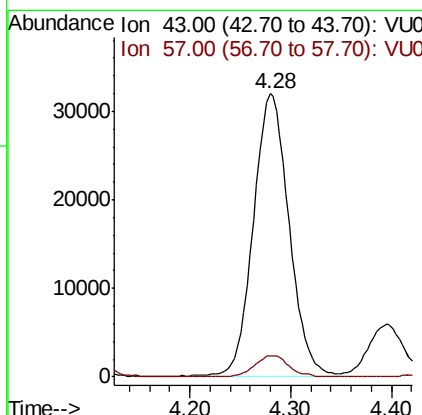
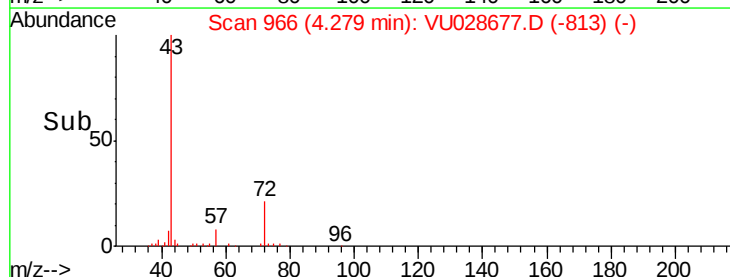
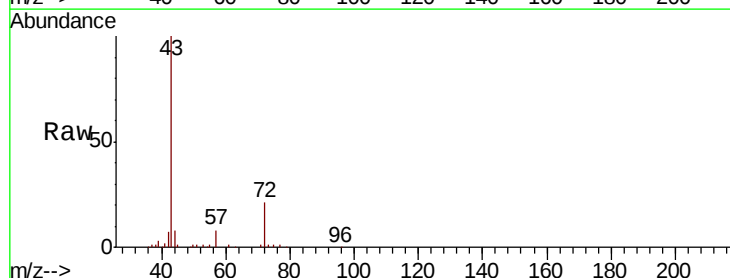
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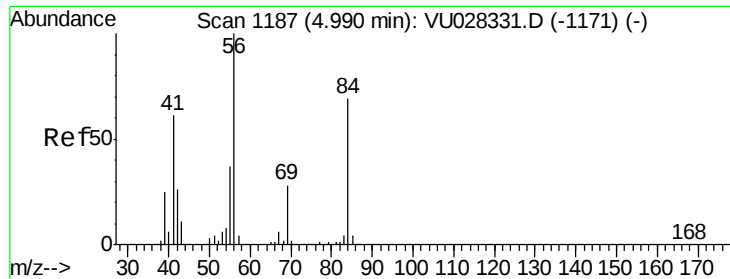
12/14/2018 9:32:32 AM



#18  
 2-Butanone  
 Concen: 51.460 ug/l  
 RT: 4.28 min Scan# 966  
 Delta R.T. -0.01 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 77739 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 57        | 7.6   | 0.0   | 15.0  |





#19  
Cyclohexane  
Concen: 9.747 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.01 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

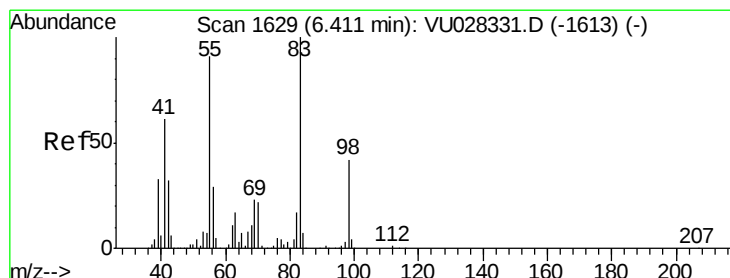
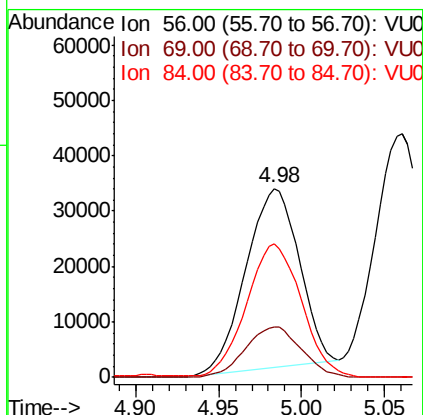
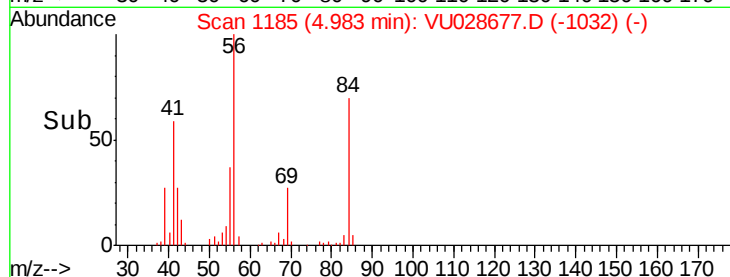
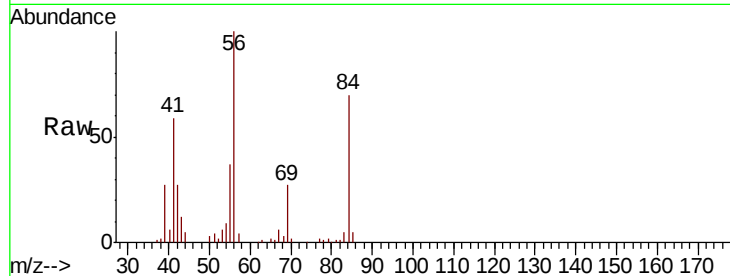
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 56    | Resp: | 72300 |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 29.6  | 25.0  | 37.6  |
| 84        | 76.2  | 62.6  | 94.0  |

Manual Integrations  
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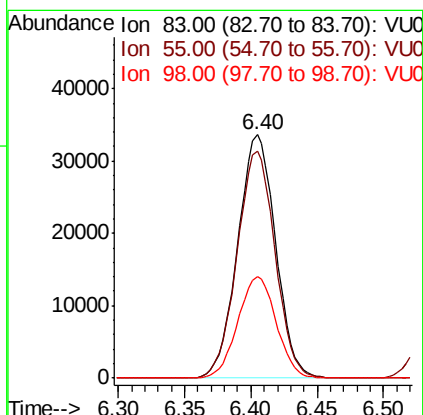
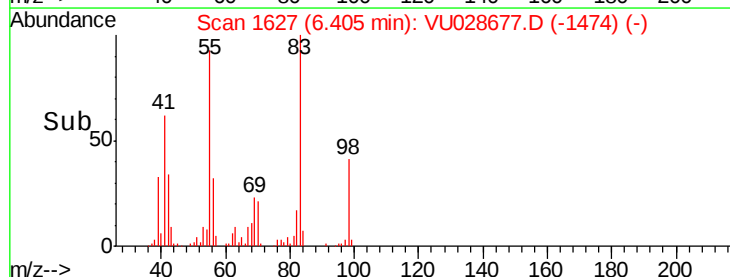
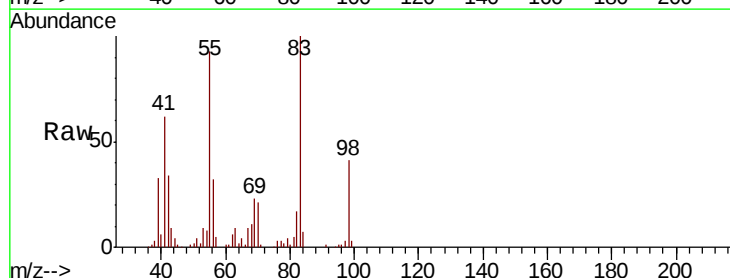
MMDadoda

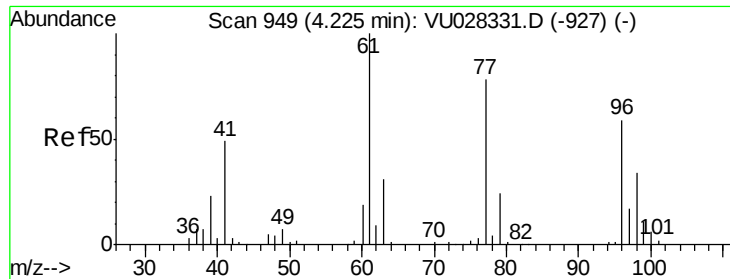
12/14/2018 9:32:32 AM



#20  
Methylcyclohexane  
Concen: 9.207 ug/l  
RT: 6.40 min Scan# 1627  
Delta R.T. -0.01 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 66855 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 93.4  | 72.6  | 108.8 |
| 98        | 42.1  | 33.8  | 50.8  |





#21  
 2,2-Dichloropropane  
 Concen: 9.850 ug/l  
 RT: 4.22 min Scan# 948  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

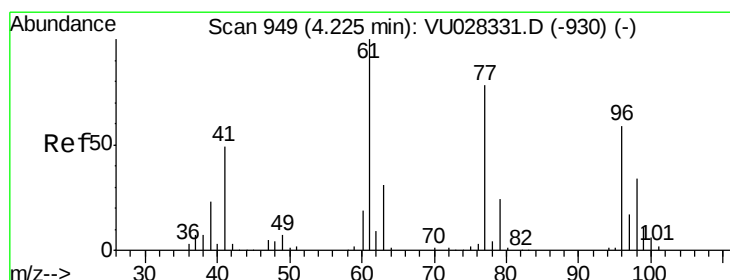
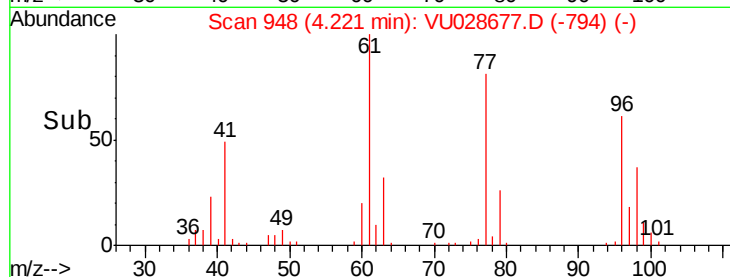
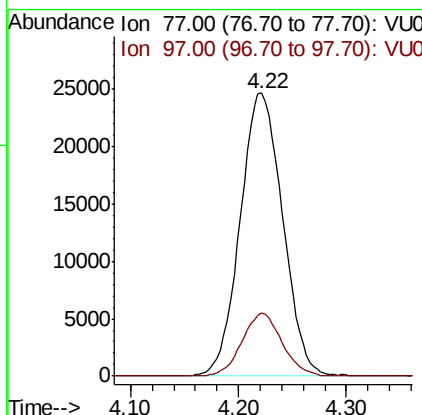
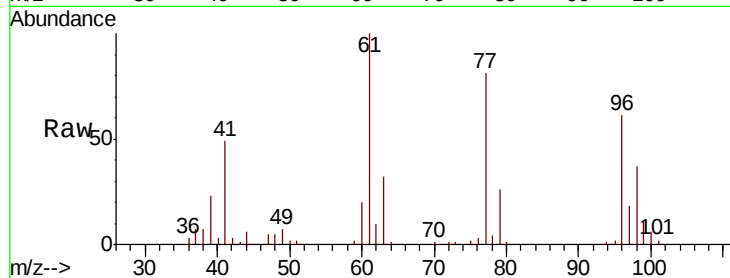
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

Tot Ion: 77 Resp: 67551  
 Ion Ratio Lower Upper  
 77 100  
 97 21.0 17.4 26.2

Manual Integrations  
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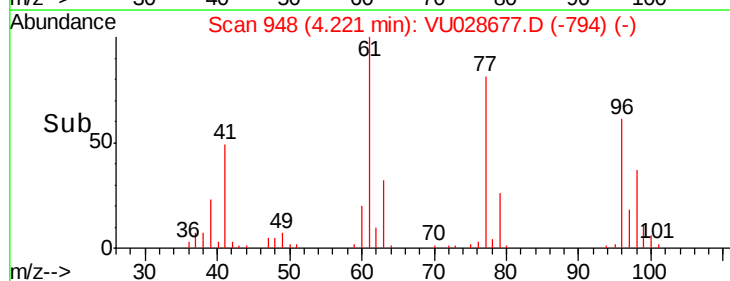
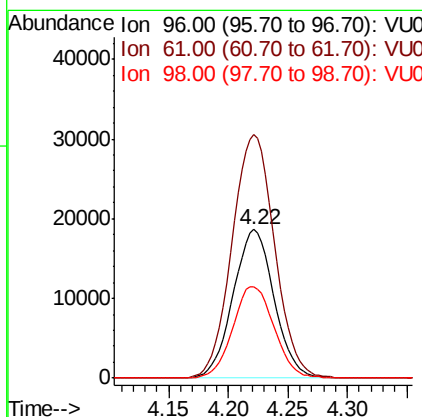
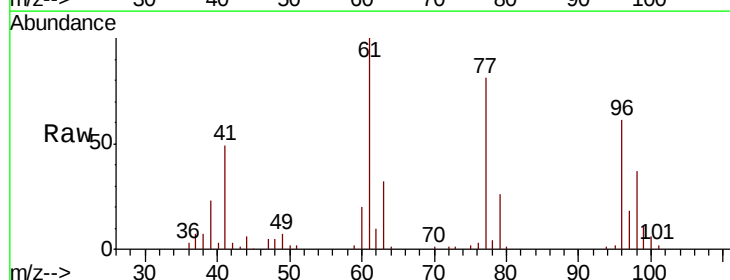
MMDadoda

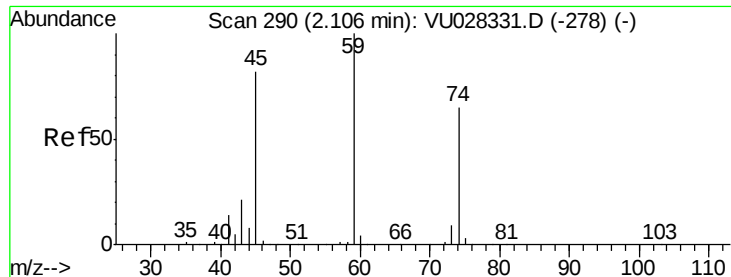
12/14/2018 9:32:32 AM



#22  
 cis-1,2-Dichloroethene  
 Concen: 9.906 ug/l  
 RT: 4.22 min Scan# 948  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

Tgt Ion: 96 Resp: 44431  
 Ion Ratio Lower Upper  
 96 100  
 61 170.2 0.0 423.0  
 98 62.1 30.3 91.0





#23  
Diethyl Ether  
Concen: 10.239 ug/l  
RT: 2.10 min Scan# 289  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

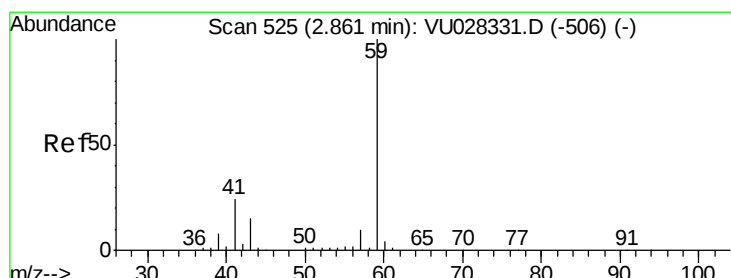
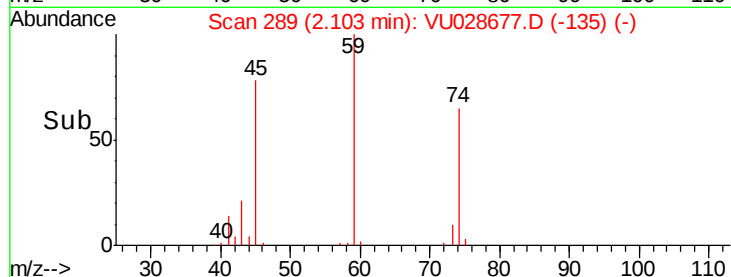
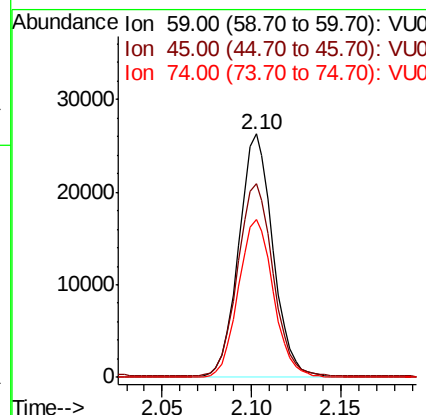
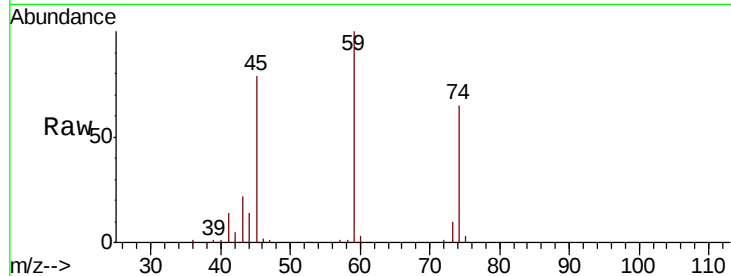
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 81.7  | 66.4  | 99.6  |
| 74      | 66.4  | 52.2  | 78.4  |

Manual Integrations  
APPROVED

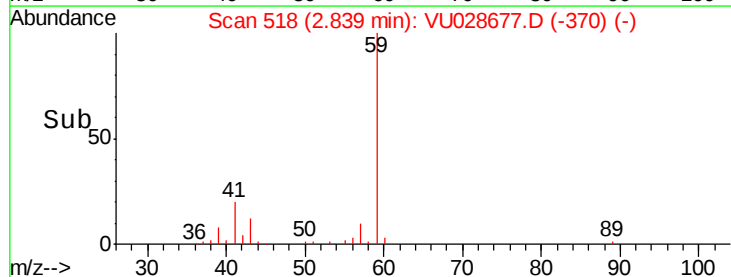
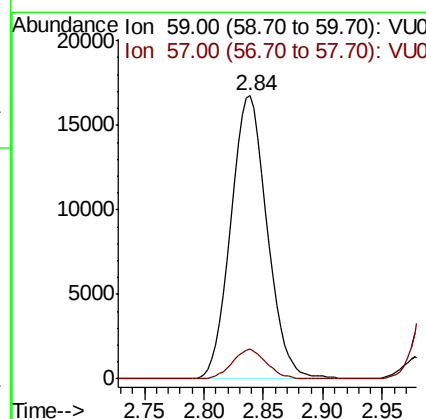
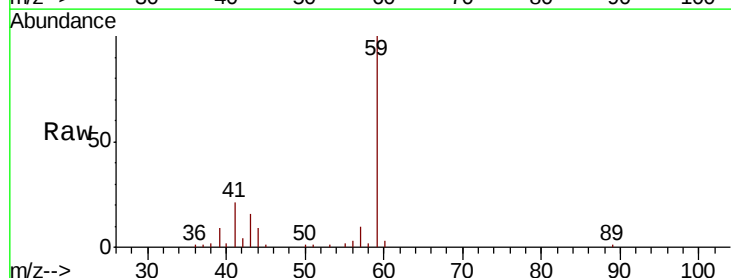
MMDadoda

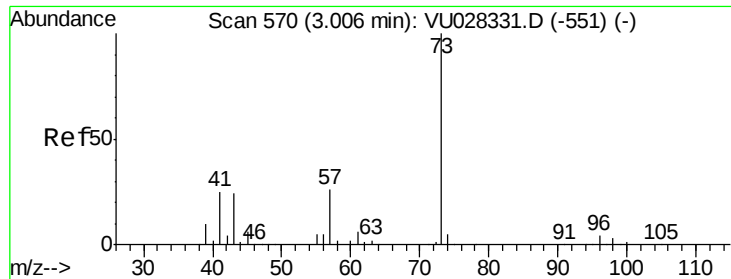
12/14/2018 9:32:32 AM



#24  
tert-Butyl Alcohol  
Concen: 102.992 ug/l  
RT: 2.84 min Scan# 518  
Delta R.T. -0.02 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 9.8   | 8.2   | 12.4  |





#25

Methyl tert-Butyl Ether  
Concen: 10.311 ug/l  
RT: 3.00 min Scan# 569  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

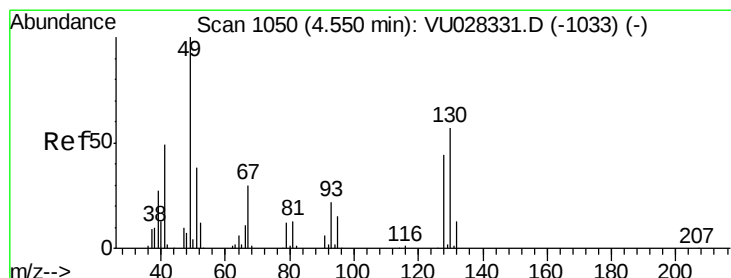
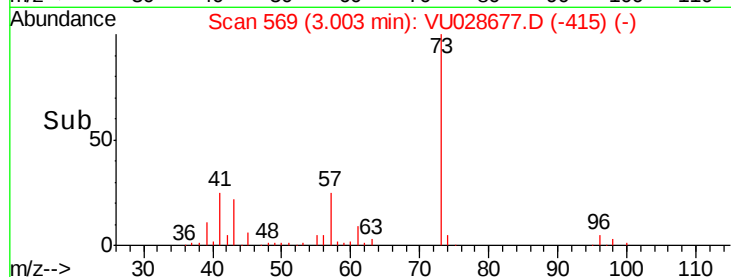
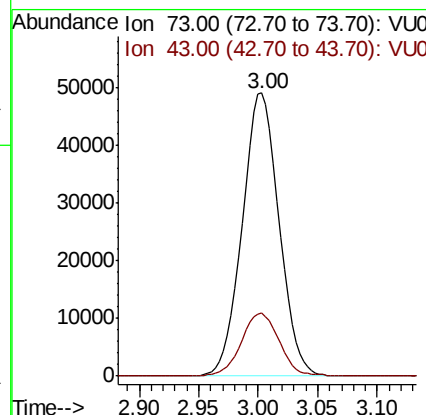
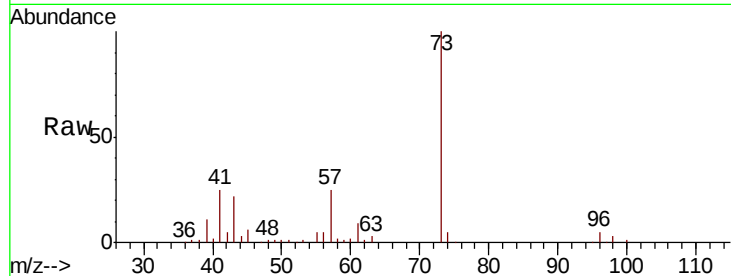
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion   | 73    | Resp  | 104897 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 73        | 100   |       |        |
| 43        | 22.3  | 18.5  | 27.7   |

Manual Integrations  
APPROVED

MMDadoda

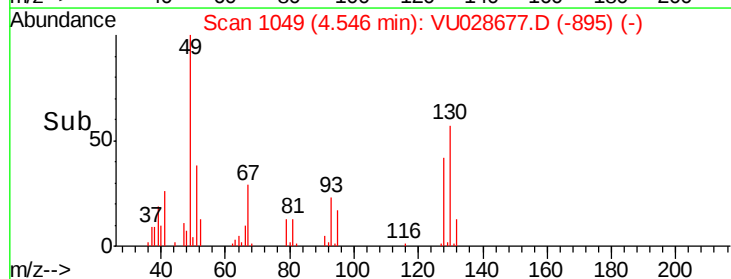
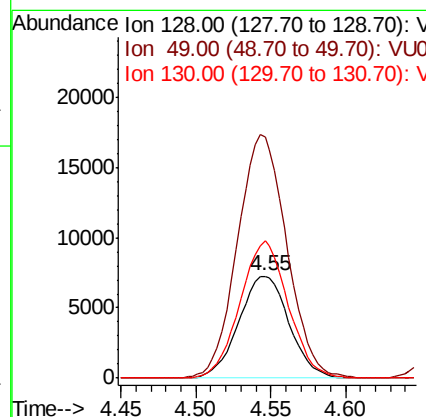
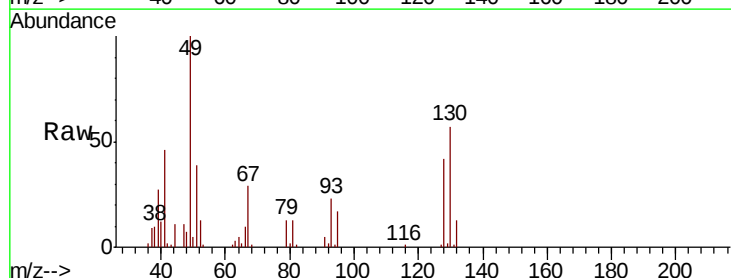
12/14/2018 9:32:32 AM

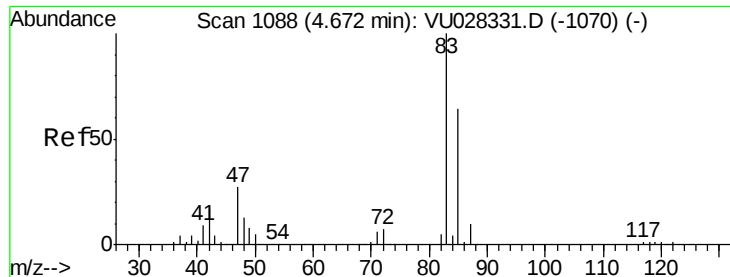


#26

Bromochloromethane  
Concen: 9.892 ug/l  
RT: 4.55 min Scan# 1049  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion   | 128   | Resp  | 16914 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 49        | 235.1 | 0.0   | 457.6 |
| 130       | 129.0 | 101.4 | 152.2 |





#27  
Chloroform  
Concen: 9.360 ug/l  
RT: 4.67 min Scan# 1088  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

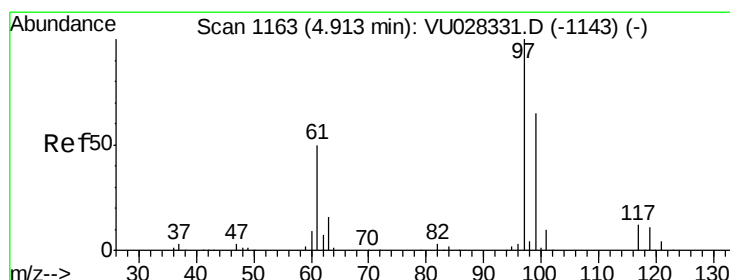
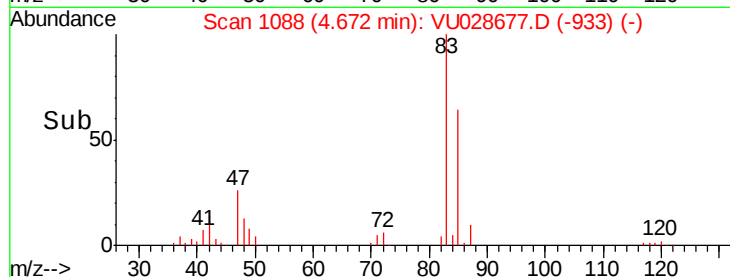
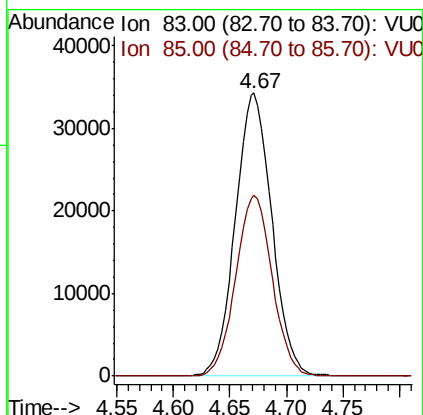
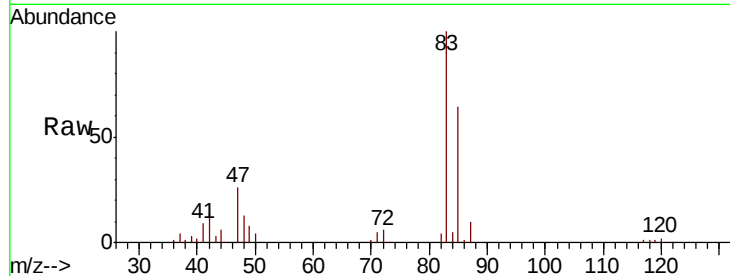
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

Tot Ion: 83 Resp: 77129  
Ion Ratio Lower Upper  
83 100  
85 64.0 0.0 128.0

Manual Integrations  
APPROVED

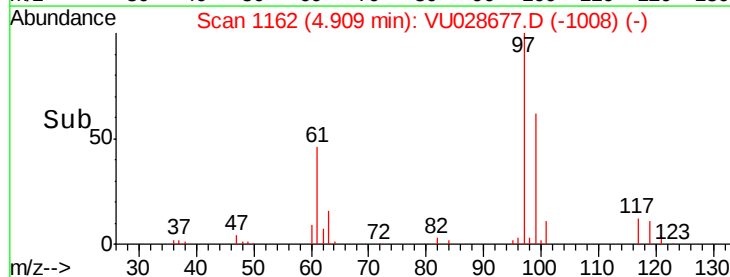
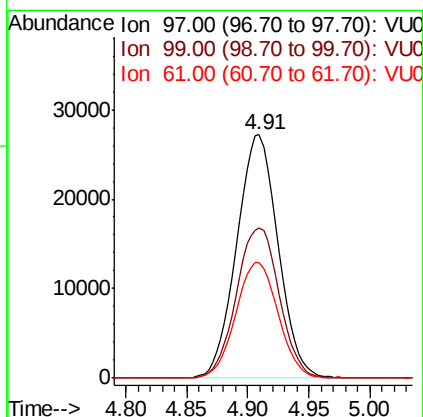
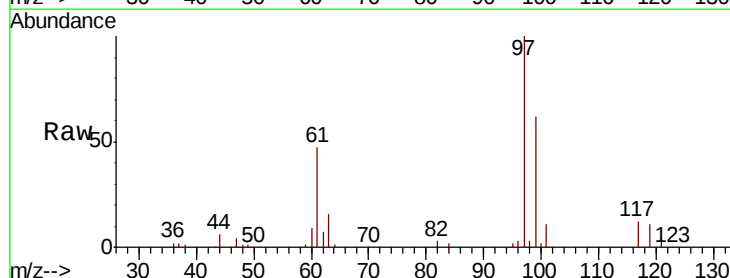
MMDadoda

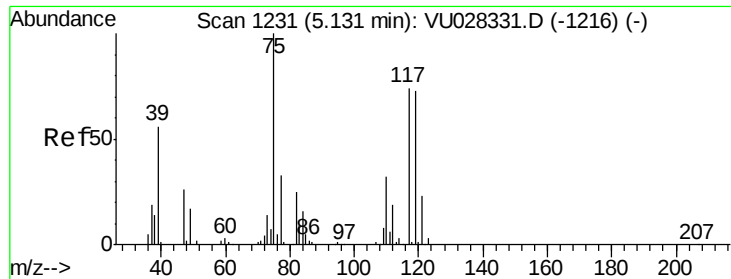
12/14/2018 9:32:32 AM



#28  
1,1,1-Trichloroethane  
Concen: 9.928 ug/l  
RT: 4.91 min Scan# 1162  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

Tgt Ion: 97 Resp: 63889  
Ion Ratio Lower Upper  
97 100  
99 63.8 32.2 96.6  
61 48.6 24.9 74.7





#29  
 1,1-Dichloropropene  
 Concen: 9.677 ug/l  
 RT: 5.13 min Scan# 1230  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

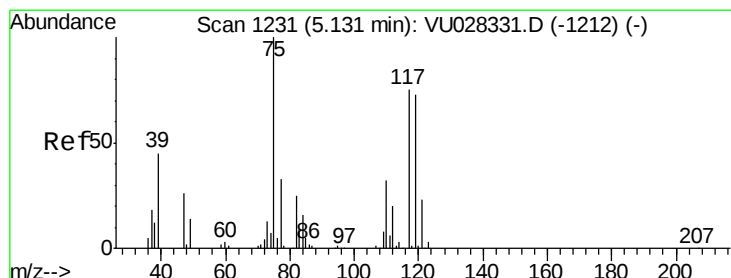
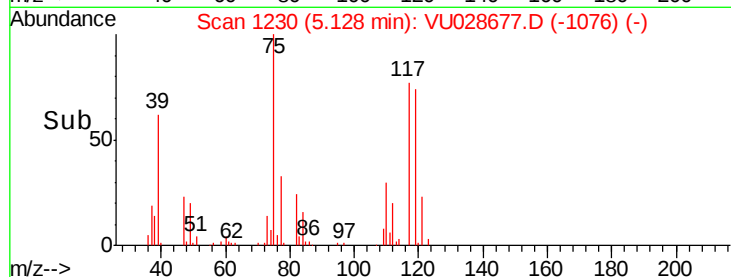
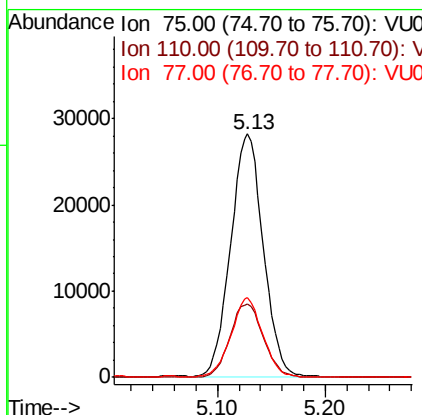
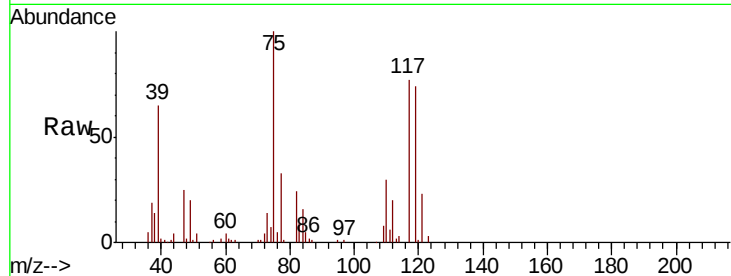
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 30.5  | 15.8  | 47.3  |
| 77      | 31.7  | 25.4  | 38.0  |

Manual Integrations  
 APPROVED

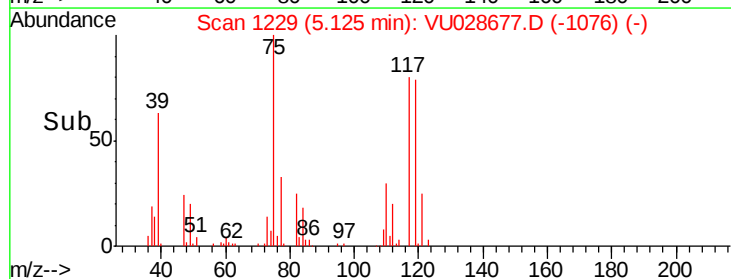
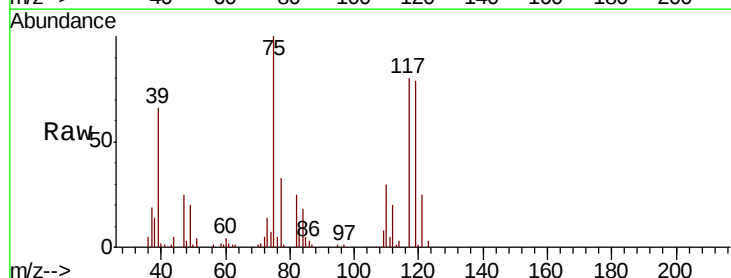
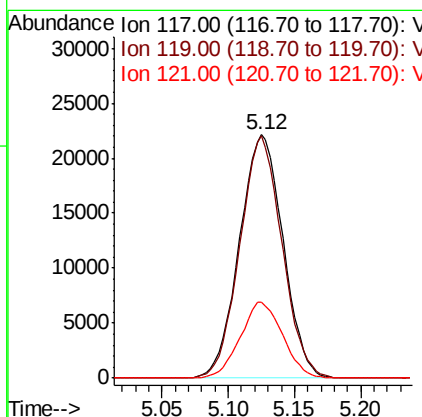
MMDadoda

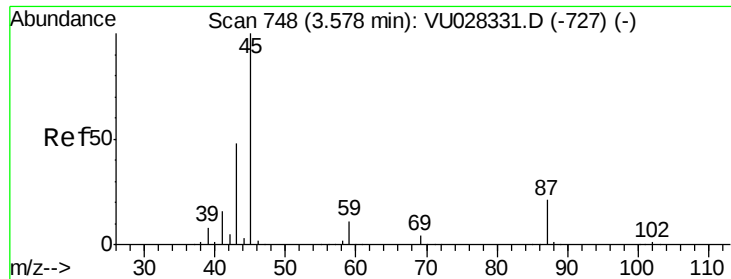
12/14/2018 9:32:32 AM



#30  
 Carbon Tetrachloride  
 Concen: 9.740 ug/l  
 RT: 5.12 min Scan# 1229  
 Delta R.T. -0.01 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 99.3  | 78.2  | 117.4 |
| 121     | 31.4  | 24.7  | 37.1  |





#31

Isopropyl Ether  
 Concen: 10.121 ug/l  
 RT: 3.58 min Scan# 748  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

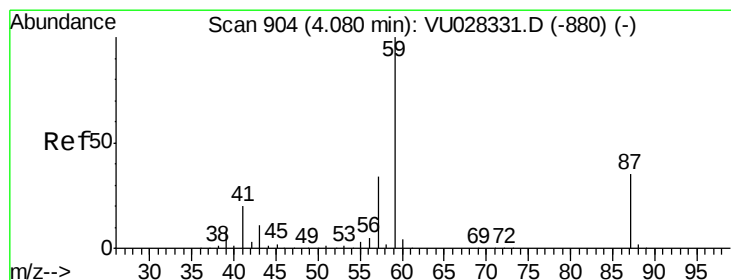
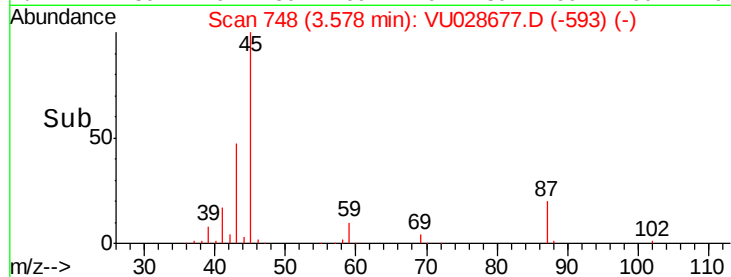
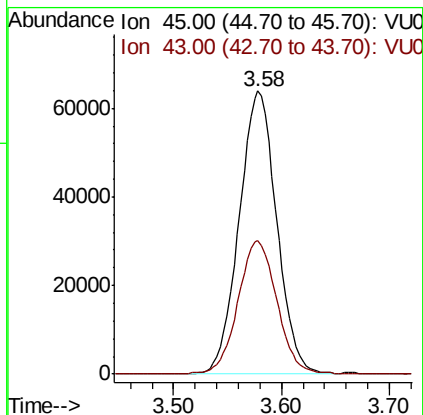
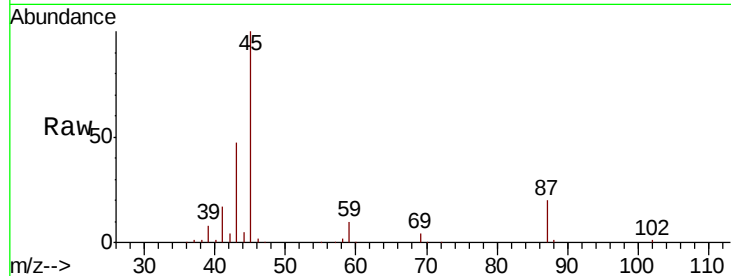
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

| Tot Ion | 45 | 43 | Ratio | 100 | 49.1 | Resp | 154863 | Lower | 24.2 | Upper | 72.6 |
|---------|----|----|-------|-----|------|------|--------|-------|------|-------|------|
| Ion     | 45 | 43 | Ratio | 100 | 49.1 | Resp | 154863 | Lower | 24.2 | Upper | 72.6 |

Manual Integrations  
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MMDadoda

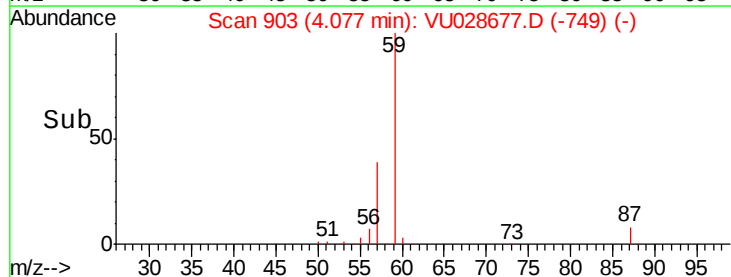
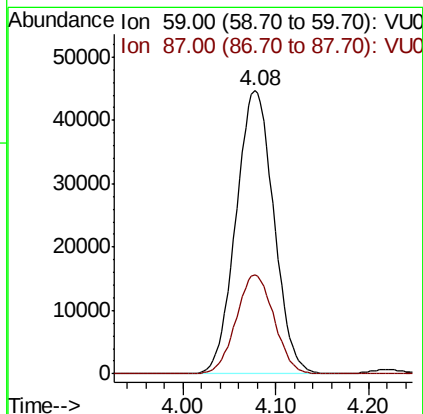
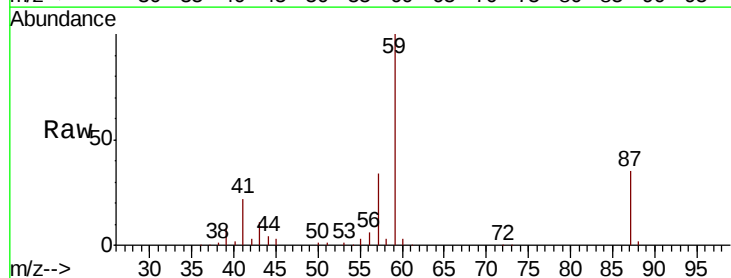
12/14/2018 9:32:32 AM

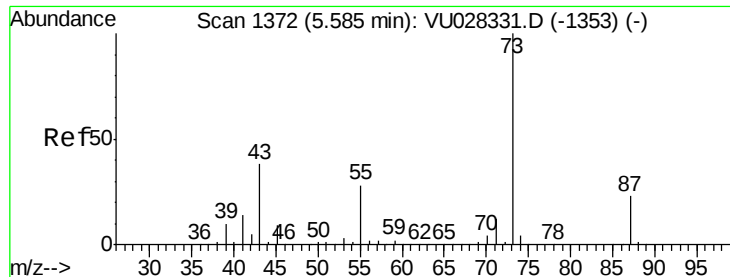


#32

Ethyl-t-butyl ether  
 Concen: 10.038 ug/l  
 RT: 4.08 min Scan# 903  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

| Tgt Ion | 59 | 87 | Ratio | 100 | 35.0 | Resp | 126510 | Lower | 28.2 | Upper | 42.4 |
|---------|----|----|-------|-----|------|------|--------|-------|------|-------|------|
| Ion     | 59 | 87 | Ratio | 100 | 35.0 | Resp | 126510 | Lower | 28.2 | Upper | 42.4 |





#33  
Tert-Butyl methyl ether  
Concen: 9.722 ug/l  
RT: 5.59 min Scan# 1373  
Delta R.T. 0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

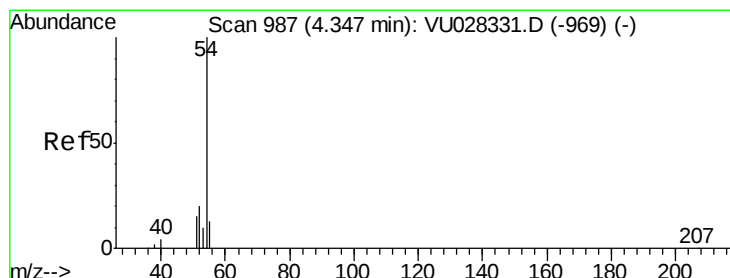
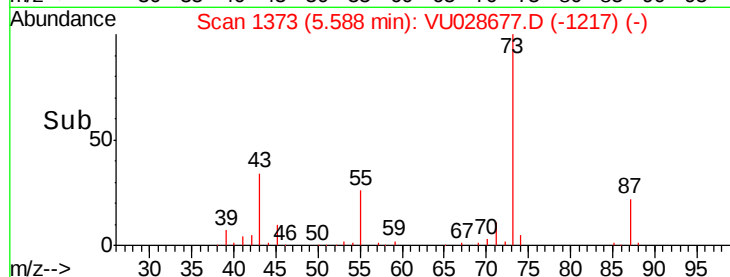
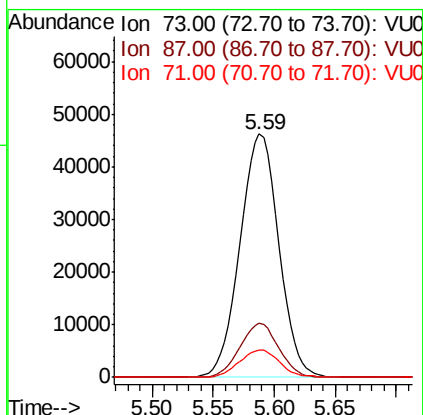
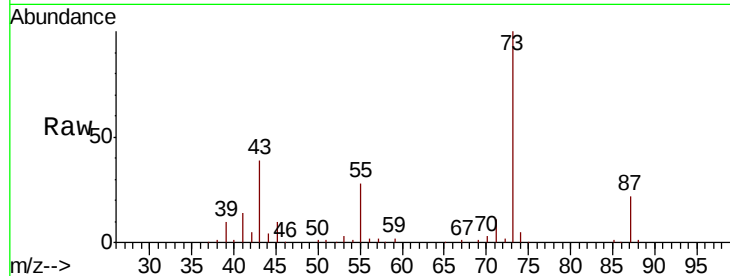
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 73    | Resp: | 101642 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 87       | 22.0  | 17.6  | 26.4   |
| 71       | 11.6  | 9.2   | 13.8   |

Manual Integrations  
APPROVED

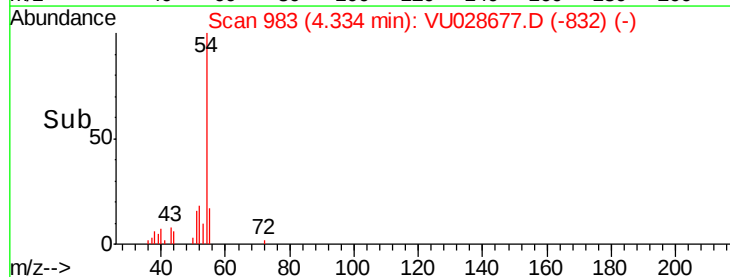
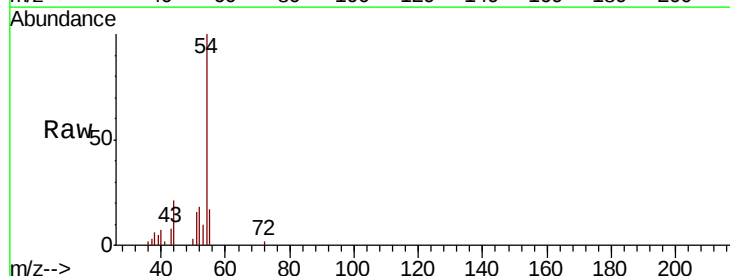
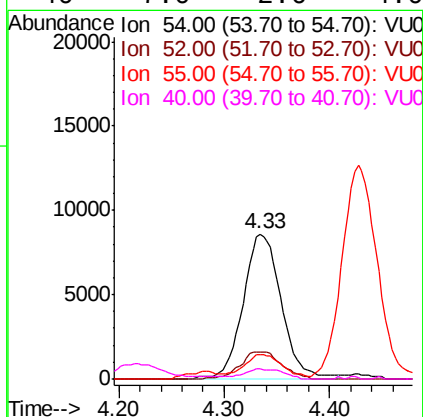
MMDadoda

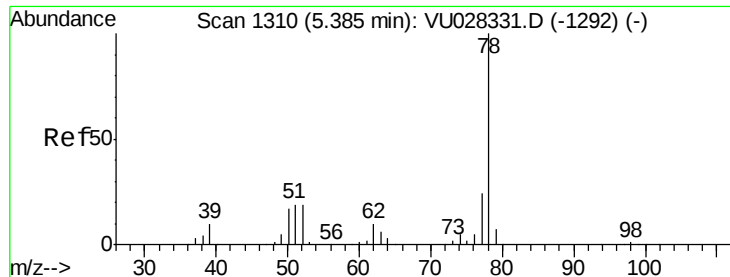
12/14/2018 9:32:32 AM



#34  
Propionitrile  
Concen: 56.975 ug/l  
RT: 4.33 min Scan# 983  
Delta R.T. -0.01 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 54    | Resp: | 21622 |
| Ion      | Ratio | Lower | Upper |
| 54       | 100   |       |       |
| 52       | 19.9  | 16.6  | 25.0  |
| 55       | 17.5  | 12.9  | 19.3  |
| 40       | 7.0   | 2.6   | 4.0   |





#35

Benzene

Concen: 9.412 ug/l

RT: 5.38 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 78 Resp: 171046

Ion Ratio Lower Upper

78 100

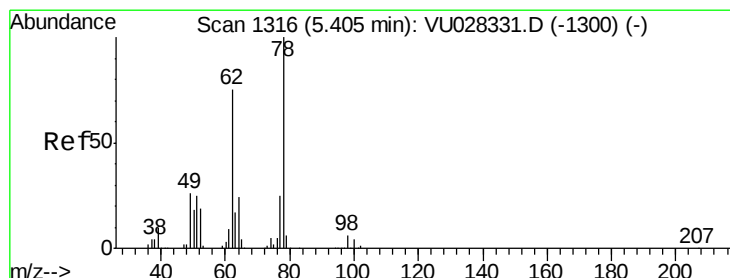
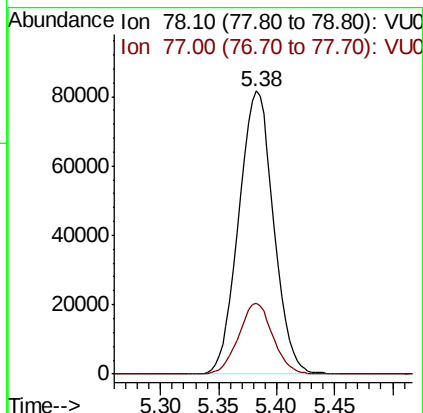
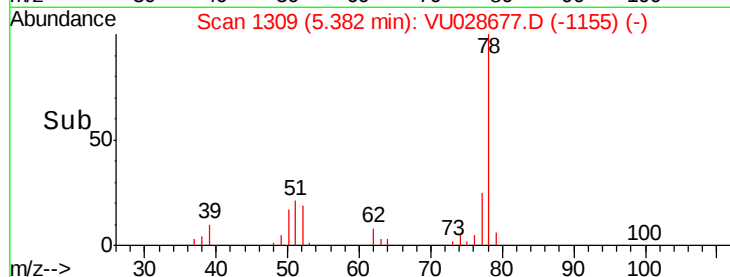
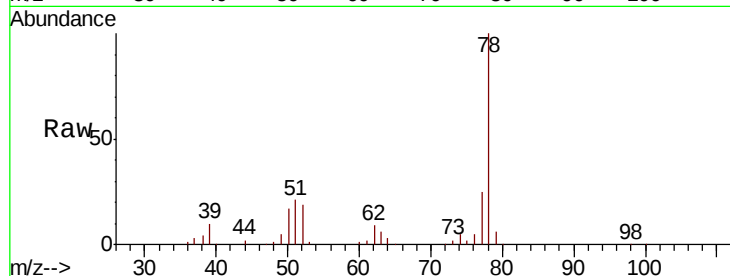
77 25.0 19.5 29.3

Manual Integrations

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MMDadoda

12/14/2018 9:32:32 AM



#36

1,2-Dichloroethane

Concen: 9.943 ug/l

RT: 5.40 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU028677.D

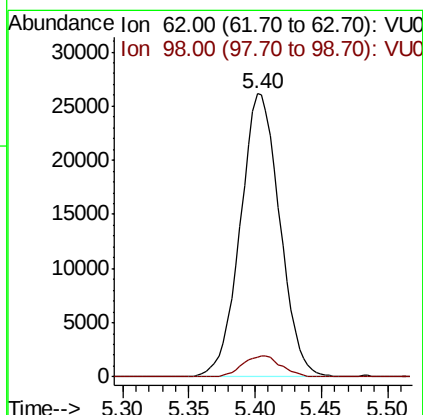
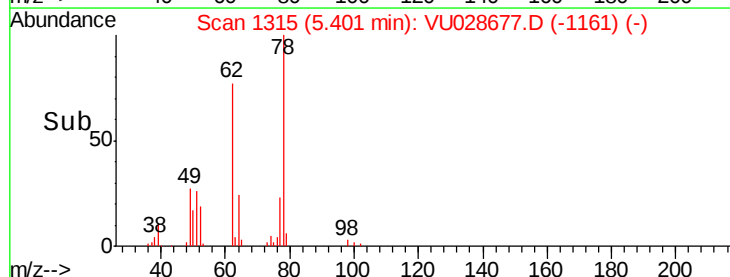
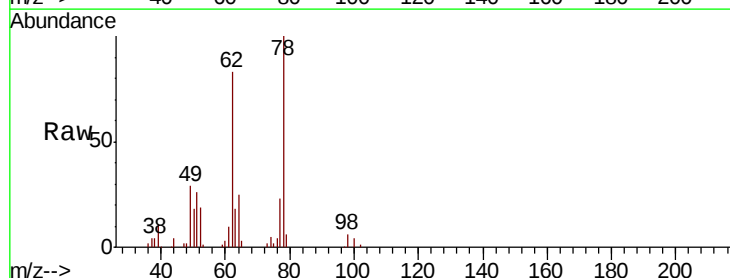
Acq: 13 Dec 2018 14:38

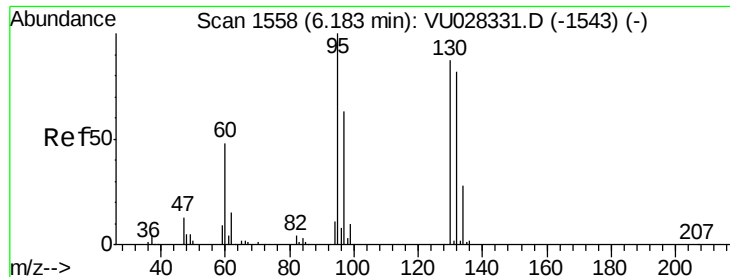
Tgt Ion: 62 Resp: 54046

Ion Ratio Lower Upper

62 100

98 7.2 6.0 9.0





#37

Trichloroethene

Concen: 11.993 ug/l

RT: 6.18 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion:130 Resp: 47473

Ion Ratio Lower Upper

130 100

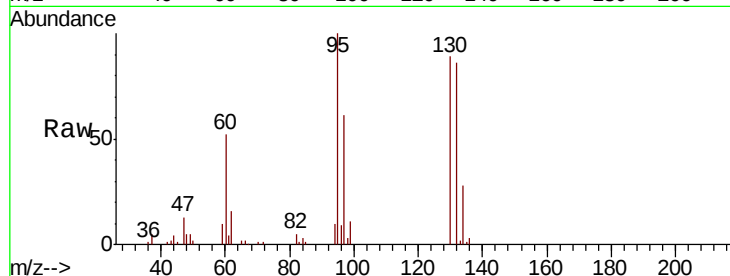
95 112.6 91.5 137.3

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:32:32 AM

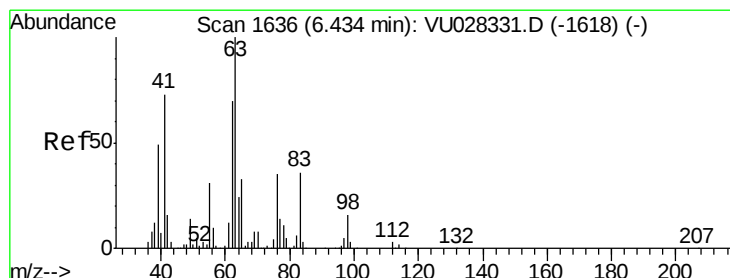
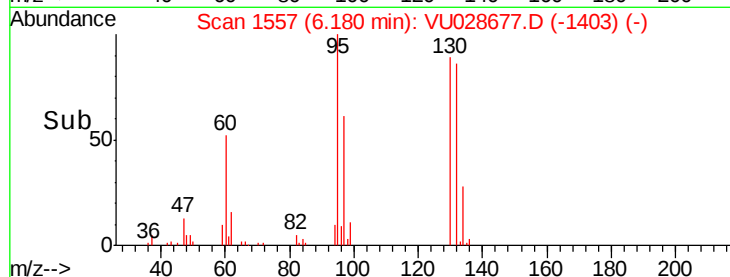


Abundance Ion 129.90 (129.60 to 130.60): VU028331.D (-1543) (-)

Ion 94.90 (94.60 to 95.60): VU028331.D (-1543) (-)

6.18

Time-->



#38

1,2-Dichloropropane

Concen: 9.513 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU028677.D

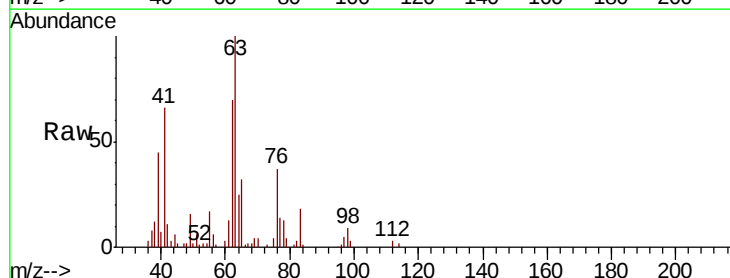
Acq: 13 Dec 2018 14:38

Tgt Ion: 63 Resp: 49304

Ion Ratio Lower Upper

63 100

65 31.7 26.2 39.4

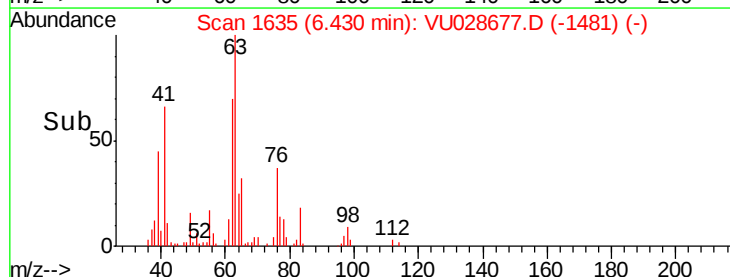


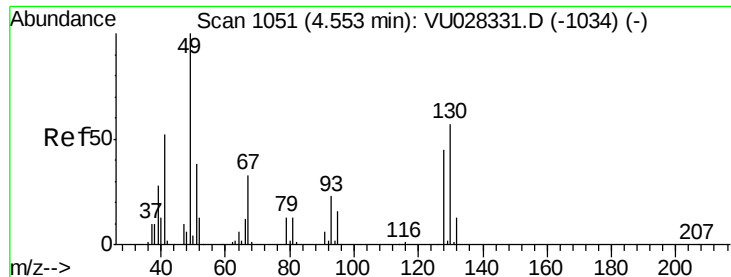
Abundance Ion 63.00 (62.70 to 63.70): VU028331.D (-1618) (-)

Ion 65.00 (64.70 to 65.70): VU028331.D (-1618) (-)

6.43

Time-->





#39  
Methacrylonitrile  
Concen: 9.937 ug/l  
RT: 4.55 min Scan# 1051  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

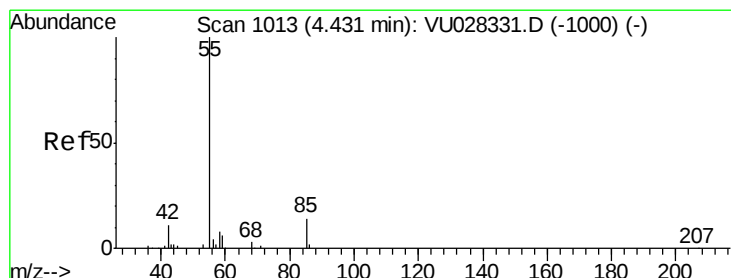
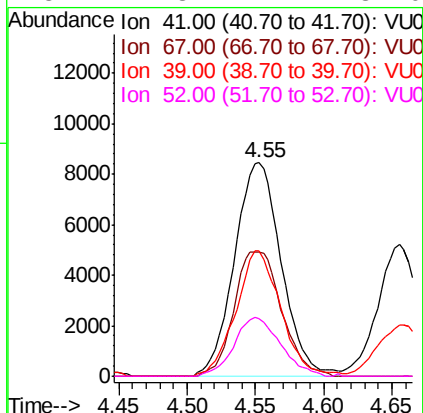
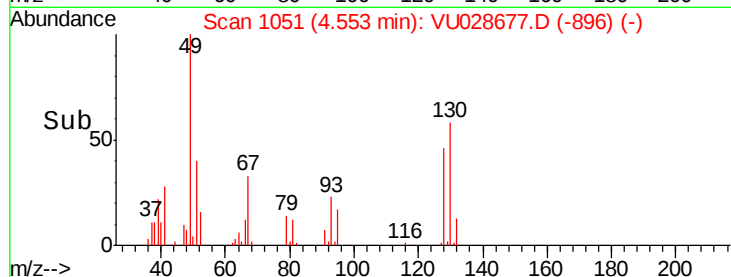
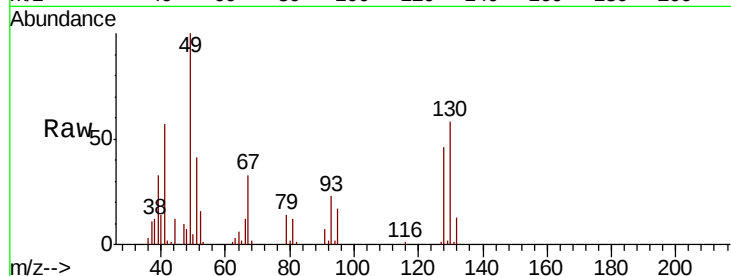
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 67      | 59.0  | 48.2  | 72.4  |
| 39      | 56.2  | 42.9  | 64.3  |
| 52      | 27.3  | 21.4  | 32.0  |

Manual Integrations  
APPROVED

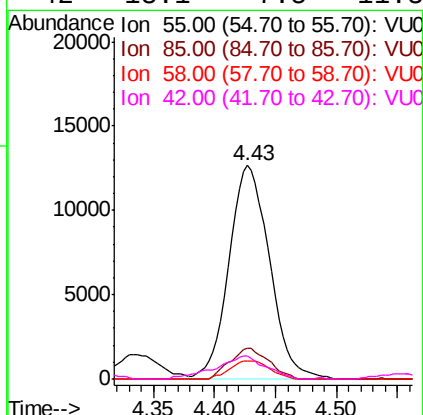
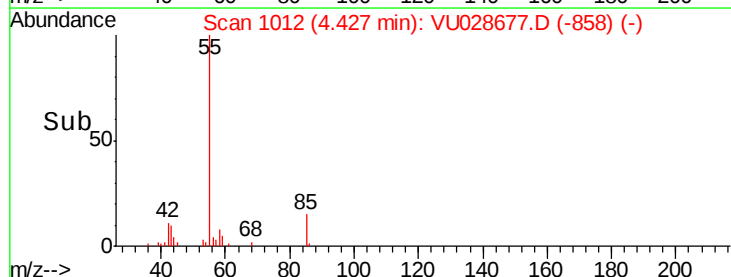
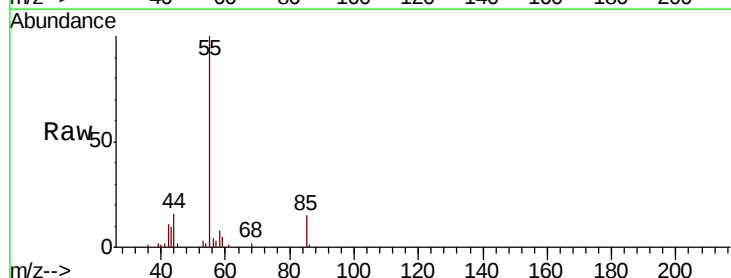
MMDadoda

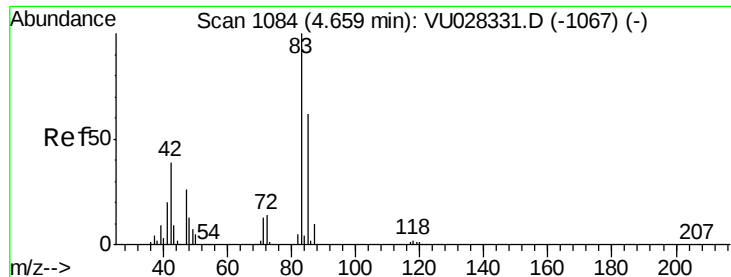
12/14/2018 9:32:32 AM



#40  
Methyl acrylate  
Concen: 10.482 ug/l  
RT: 4.43 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 55      | 100   |       |       |
| 85      | 13.7  | 10.9  | 16.3  |
| 58      | 8.3   | 6.4   | 9.6   |
| 42      | 13.1  | 7.5   | 11.3# |





#41  
Tetrahydrofuran  
Concen: 20.250 ug/l  
RT: 4.66 min Scan# 1083  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

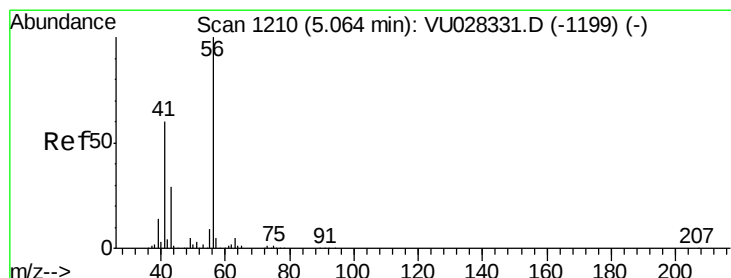
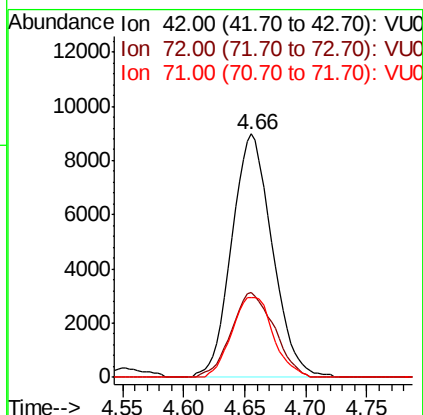
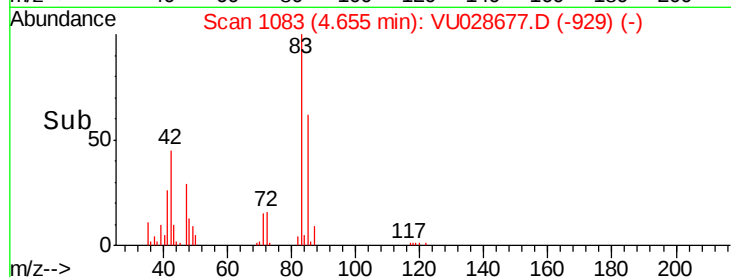
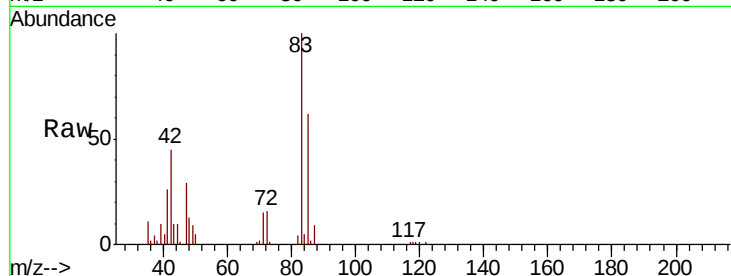
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 36.8  | 29.8  | 44.6  |
| 71      | 33.6  | 25.9  | 38.9  |

Manual Integrations  
APPROVED

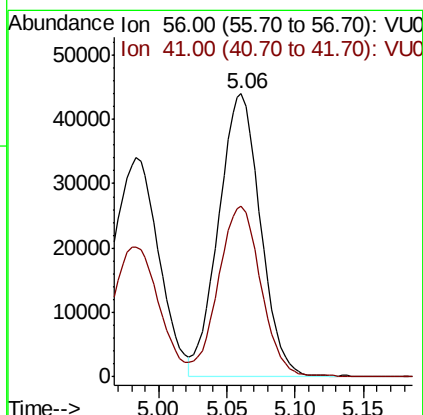
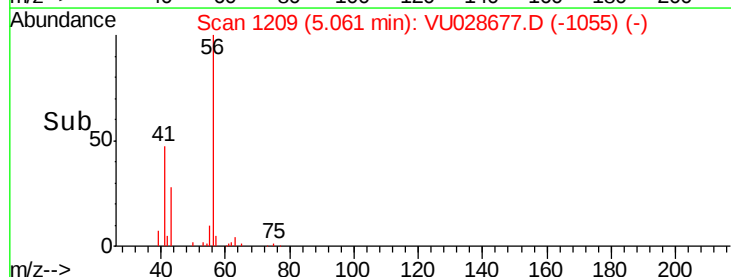
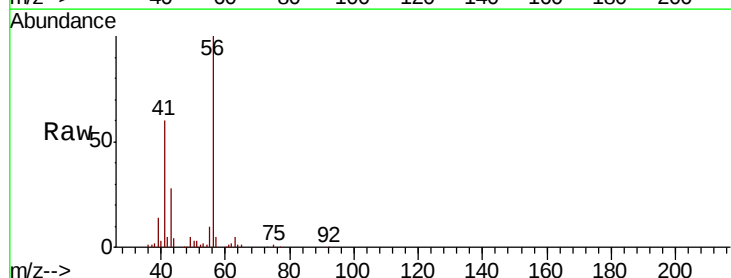
MMDadoda

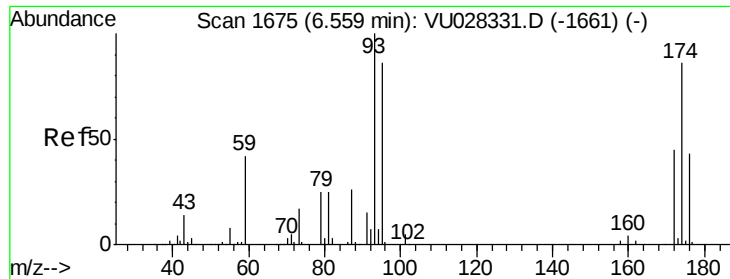
12/14/2018 9:32:32 AM



#42  
1-Chlorobutane  
Concen: 9.474 ug/l  
RT: 5.06 min Scan# 1209  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 60.7  | 29.8  | 89.3  |





#43

Dibromomethane

Concen: 9.830 ug/l

RT: 6.56 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 93 Resp: 21688

Ion Ratio Lower Upper

93 100

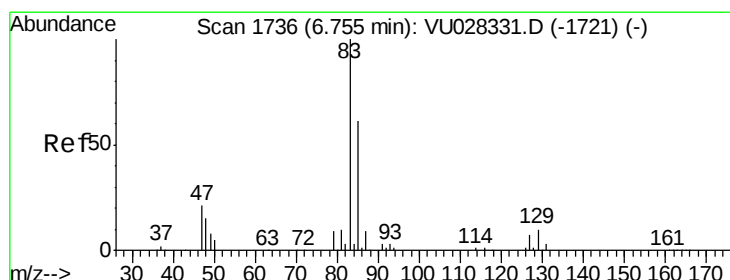
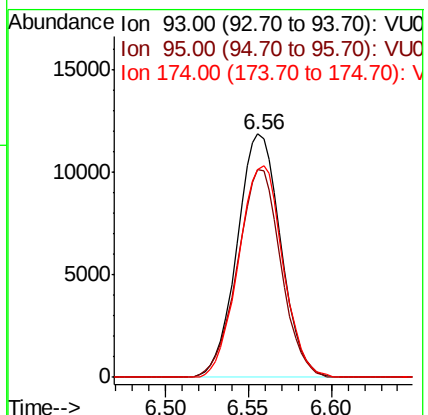
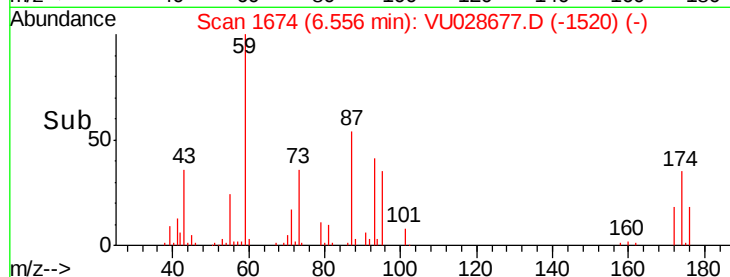
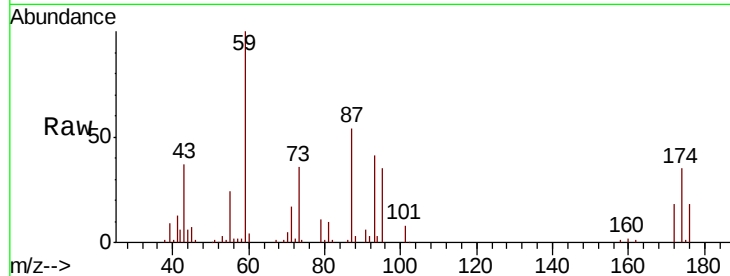
95 84.9 66.6 99.8

174 88.3 69.4 104.2

Manual Integrations  
APPROVED

MMDadoda

12/14/2018 9:32:32 AM



#44

Bromodichloromethane

Concen: 9.589 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

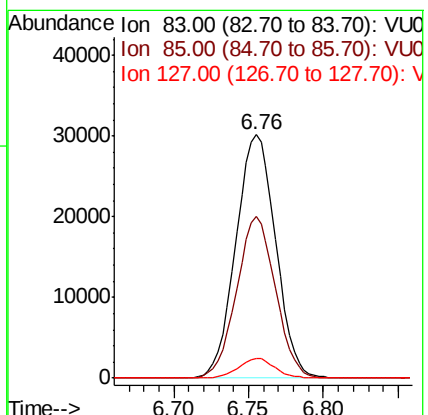
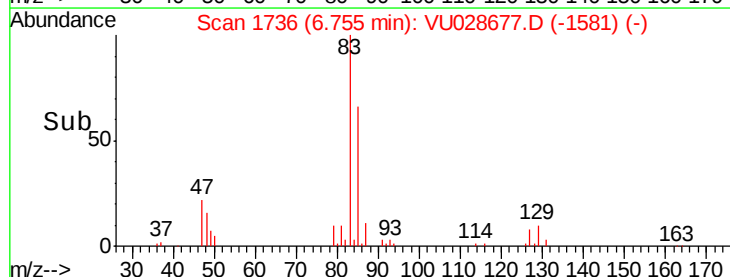
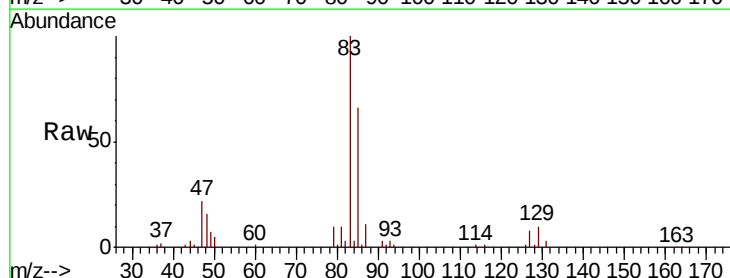
Tgt Ion: 83 Resp: 55864

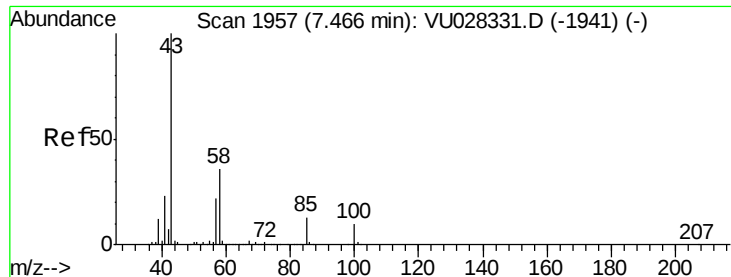
Ion Ratio Lower Upper

83 100

85 66.2 49.0 73.6

127 8.2 5.7 8.5





#45  
4-Methyl-2-Pentanone  
Concen: 50.107 ug/l  
RT: 7.48 min Scan# 1960  
Delta R.T. 0.01 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

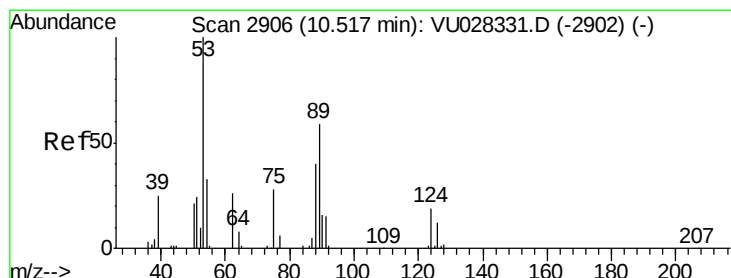
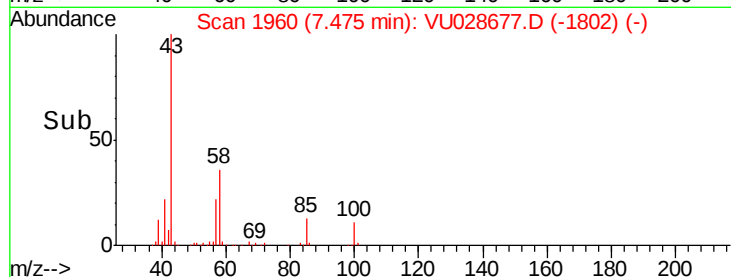
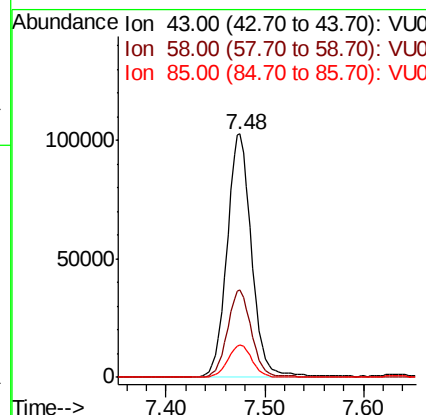
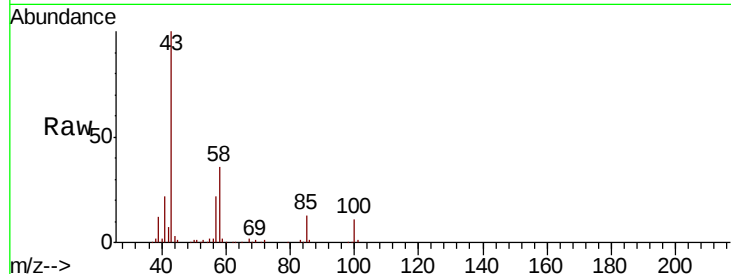
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 35.7  | 17.9  | 53.7  |
| 85      | 13.2  | 10.8  | 16.2  |

Manual Integrations  
APPROVED

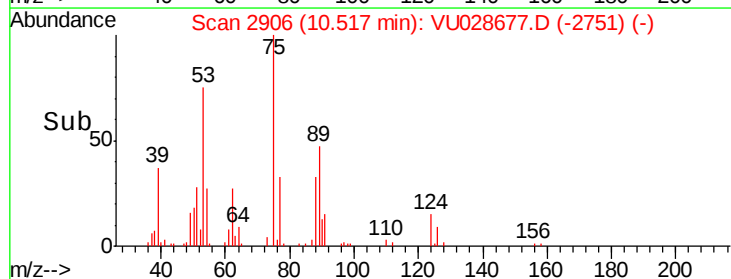
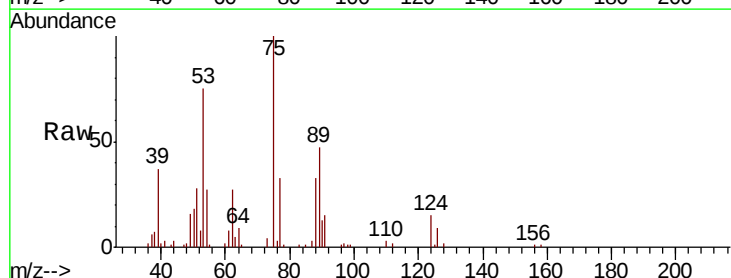
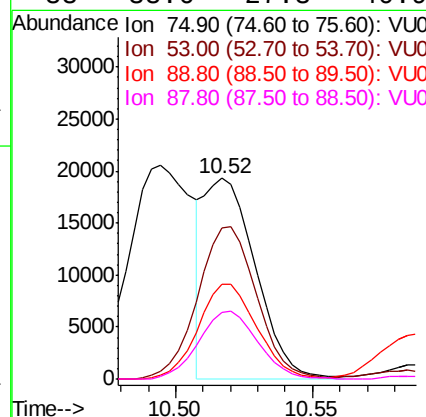
MMDadoda

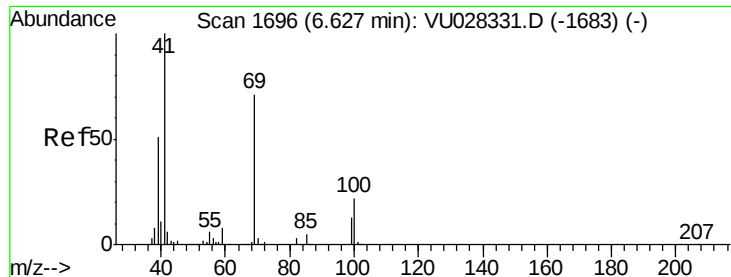
12/14/2018 9:32:32 AM



#46  
t-1,4-Dichloro-2-butene  
Concen: 19.593 ug/l m  
RT: 10.52 min Scan# 2906  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 86.4  | 65.0  | 97.6  |
| 89      | 53.8  | 38.6  | 58.0  |
| 88      | 38.6  | 27.3  | 40.9  |





#47  
Methyl methacrylate  
Concen: 20.387 ug/l  
RT: 6.63 min Scan# 1698  
Delta R.T. 0.01 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

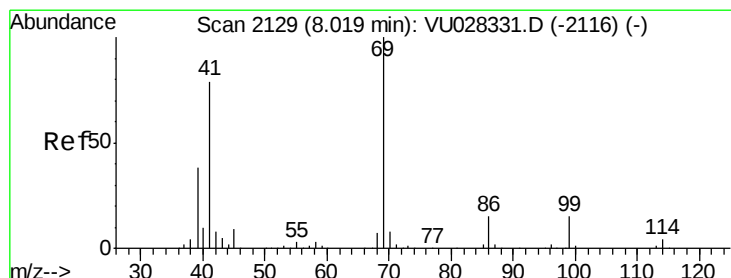
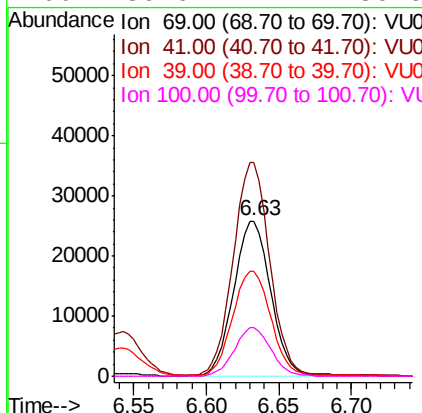
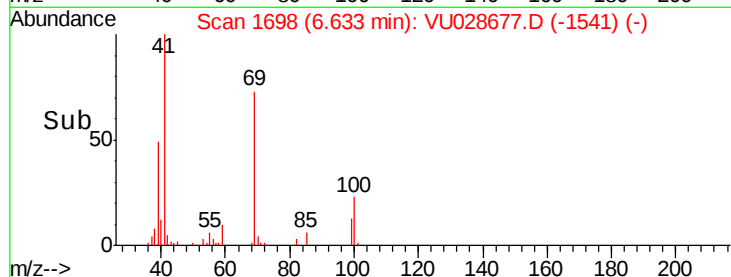
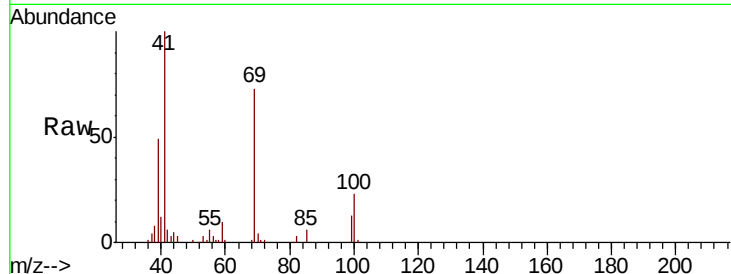
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 135.4 | 0.0   | 277.2 |
| 39      | 70.2  | 57.6  | 86.4  |
| 100     | 30.6  | 24.4  | 36.6  |

Manual Integrations  
APPROVED

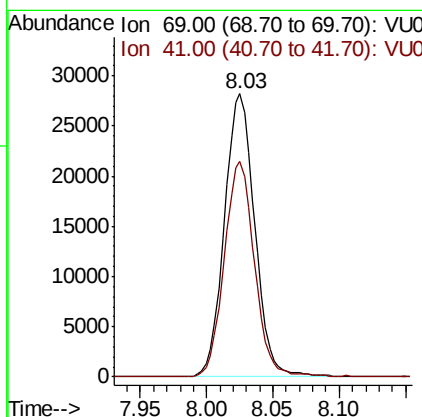
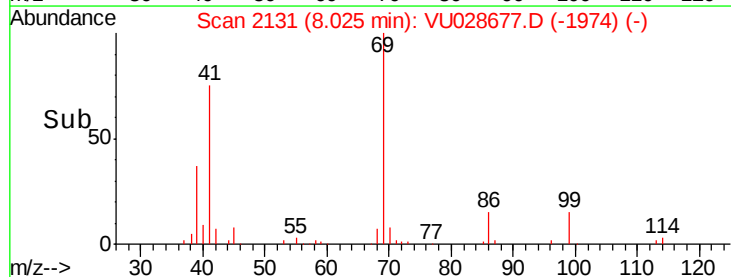
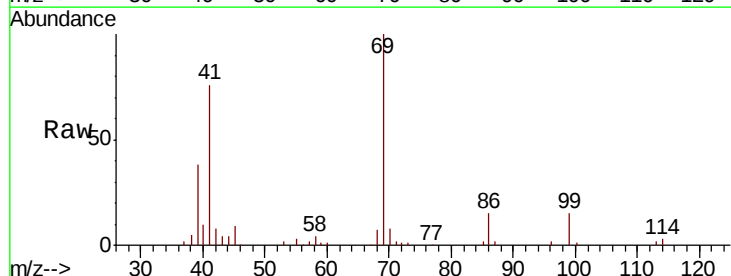
MMDadoda

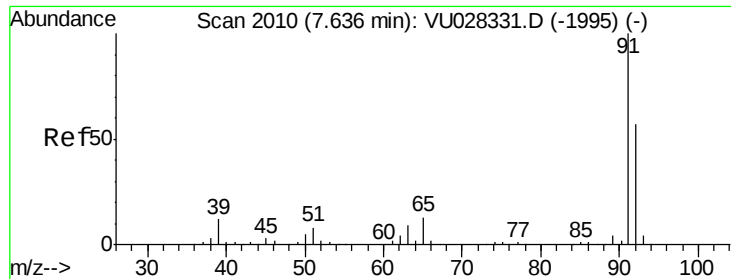
12/14/2018 9:32:32 AM



#48  
Ethyl methacrylate  
Concen: 9.964 ug/l  
RT: 8.03 min Scan# 2131  
Delta R.T. 0.01 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 75.7  | 39.4  | 118.2 |





#49

Toluene

Concen: 9.818 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 92 Resp: 99093

Ion Ratio Lower Upper

92 100

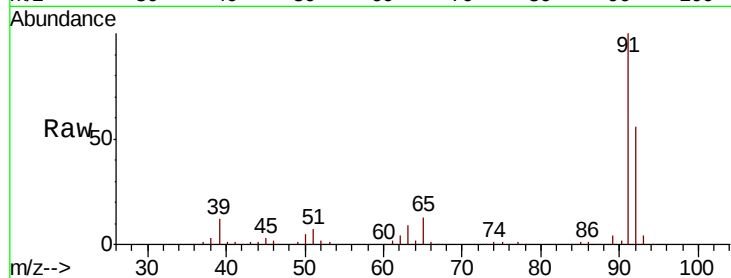
91 179.7 141.5 212.3

Manual Integrations

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12/14/2018 9:32:32 AM



Abundance Ion 92.00 (91.70 to 92.70): VU028677.D (-1995) (-)

Ion 91.00 (90.70 to 91.70): VU028677.D (-1995) (-)

120000

100000

80000

60000

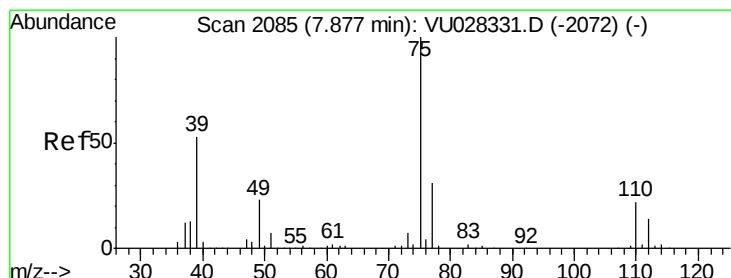
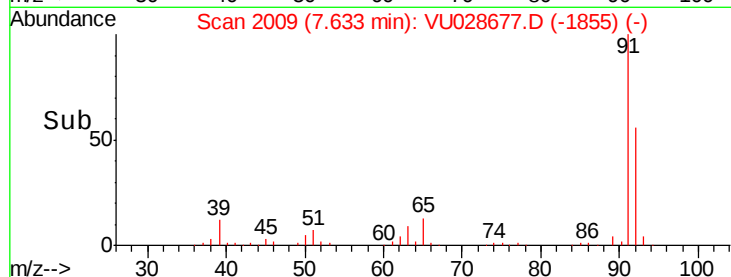
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#50

t-1,3-Dichloropropene

Concen: 9.612 ug/l

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028677.D

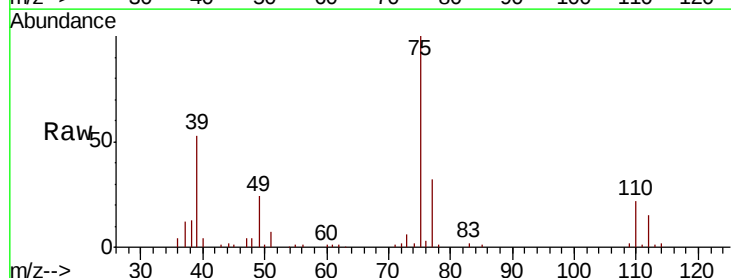
Acq: 13 Dec 2018 14:38

Tgt Ion: 75 Resp: 53782

Ion Ratio Lower Upper

75 100

77 31.9 24.7 37.1



Abundance Ion 75.00 (74.70 to 75.70): VU028677.D (-1930) (-)

Ion 77.00 (76.70 to 77.70): VU028677.D (-1930) (-)

30000

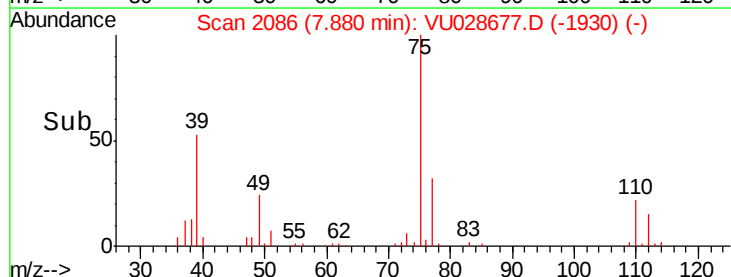
20000

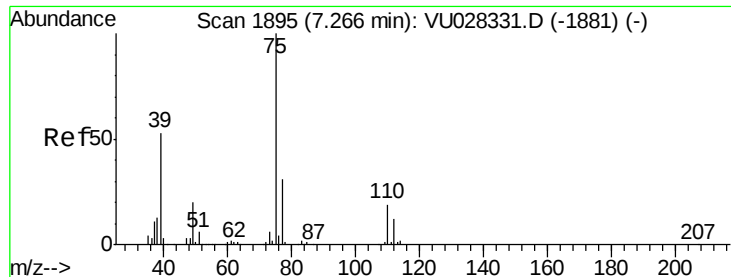
10000

0

7.80 7.85 7.90 7.95

Time-->





#51  
 cis-1,3-Dichloropropene  
 Concen: 9.425 ug/l  
 RT: 7.27 min Scan# 1896  
 Delta R.T. 0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

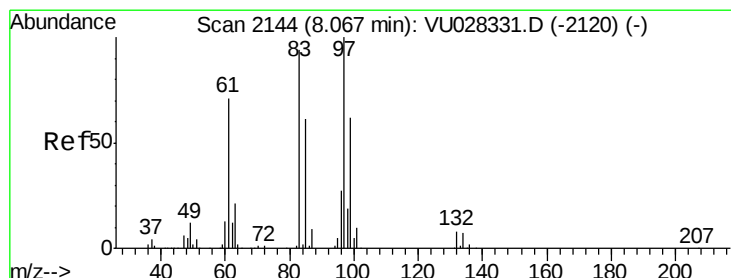
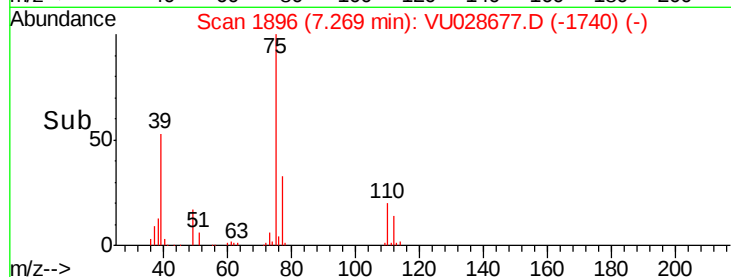
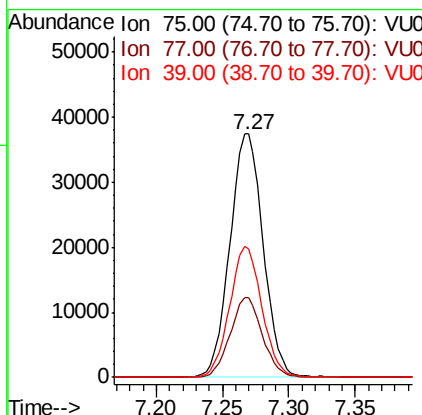
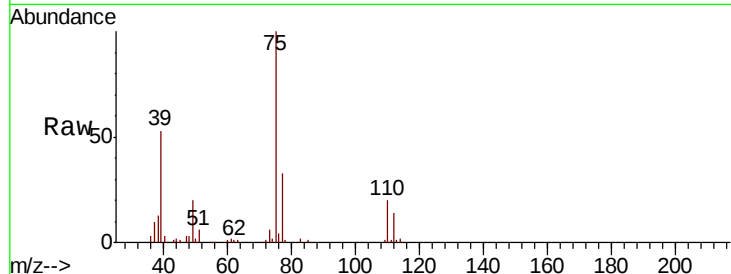
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 65123 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 32.8  | 24.4  | 36.6  |
| 39       | 52.8  | 42.8  | 64.2  |

Manual Integrations  
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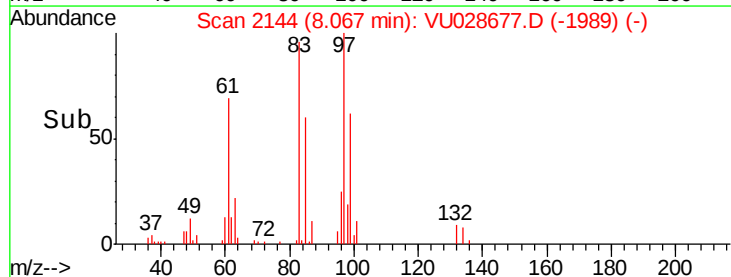
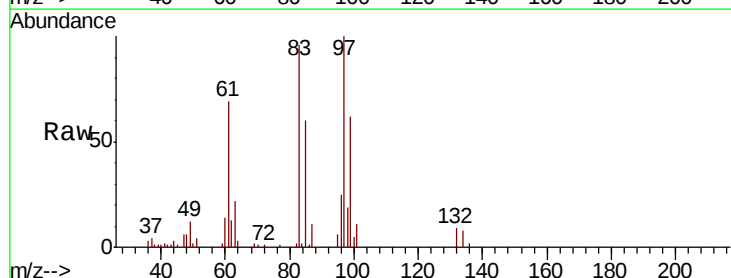
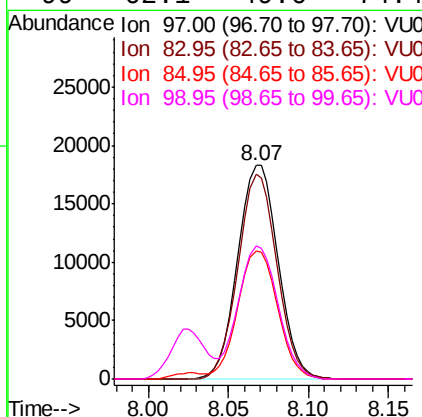
MMDadoda

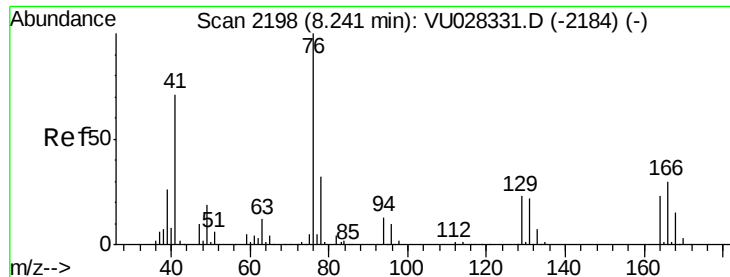
12/14/2018 9:32:32 AM



#52  
 1,1,2-Trichloroethane  
 Concen: 10.189 ug/l  
 RT: 8.07 min Scan# 2144  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 31559 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 95.9  | 75.1  | 112.7 |
| 85       | 60.1  | 48.7  | 73.1  |
| 99       | 62.1  | 49.6  | 74.4  |





#53

1,3-Dichloropropane

Concen: 10.026 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Tot Ion: 76 Resp: 58008

Ion Ratio Lower Upper

76 100

78 30.9 25.4 38.0

Instrument :

MSVOA\_U

ClientSampleId :

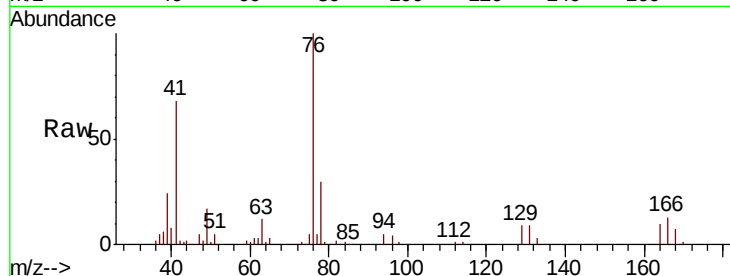
P001-TW001-01MSD

Manual Integrations

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12/14/2018 9:32:32 AM



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

8.24

40000

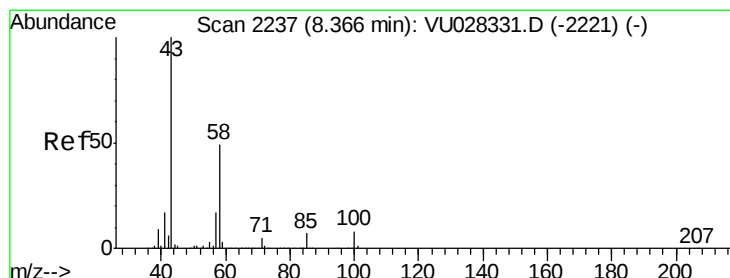
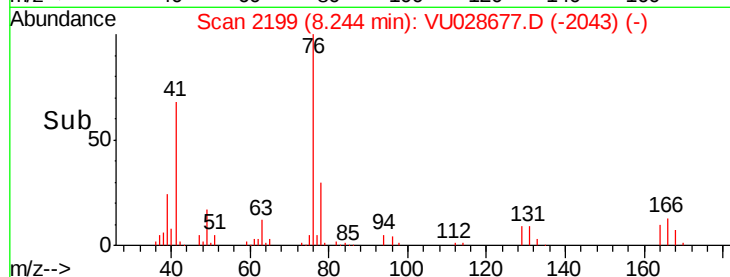
30000

20000

10000

0

Time--> 8.15 8.20 8.25 8.30



#54

2-Hexanone

Concen: 49.735 ug/l

RT: 8.37 min Scan# 2239

Delta R.T. 0.01 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

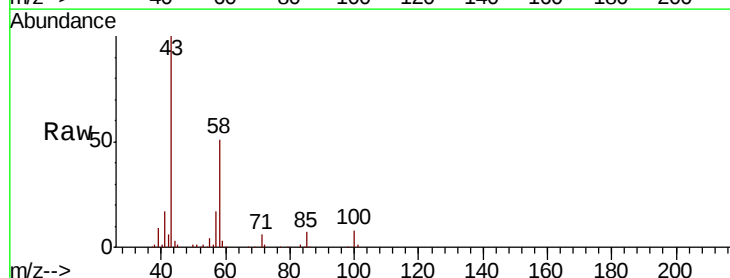
Tgt Ion: 43 Resp: 126788

Ion Ratio Lower Upper

43 100

58 49.6 29.3 69.3

57 16.3 0.0 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

8.37

100000

80000

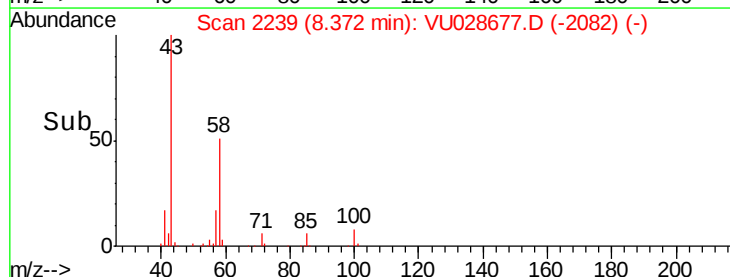
60000

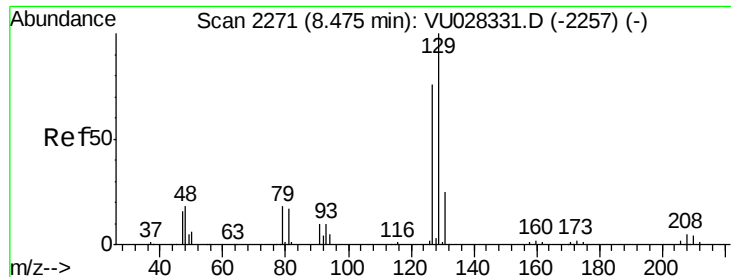
40000

20000

0

Time--> 8.30 8.40 8.50





#55

Dibromochloromethane

Concen: 10.158 ug/l

RT: 8.48 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion:129 Resp: 33466

Ion Ratio Lower Upper

129 100

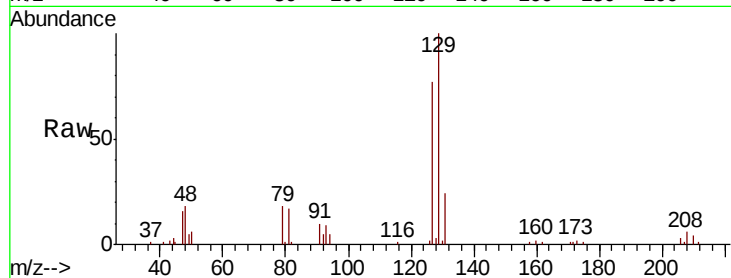
127 76.5 61.0 91.4

Manual Integrations

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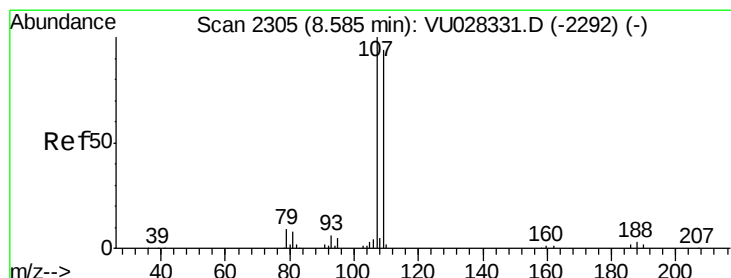
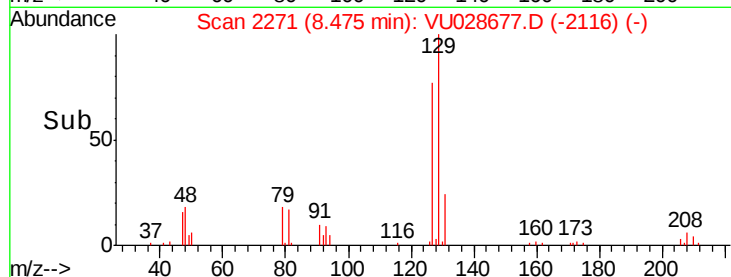
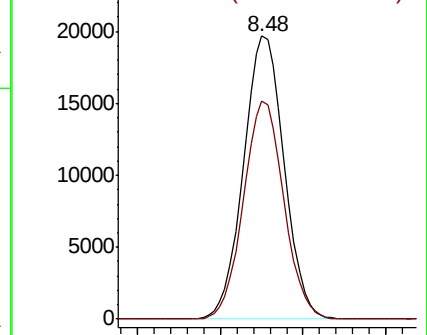
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 10.279 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU028677.D

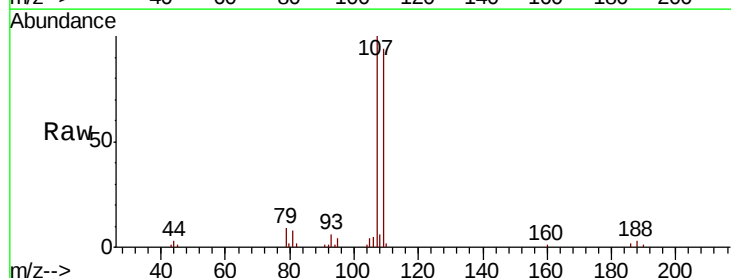
Acq: 13 Dec 2018 14:38

Tgt Ion:107 Resp: 29001

Ion Ratio Lower Upper

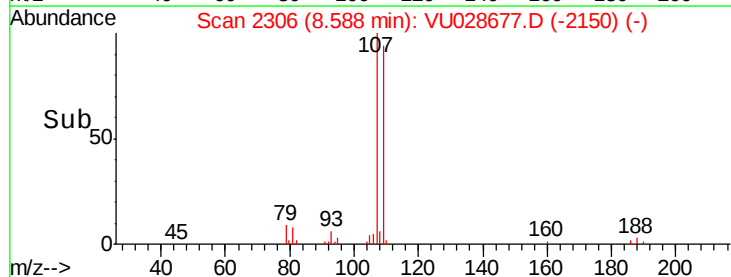
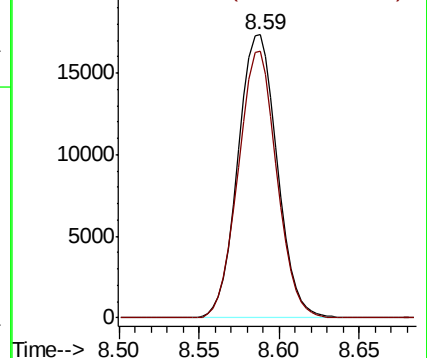
107 100

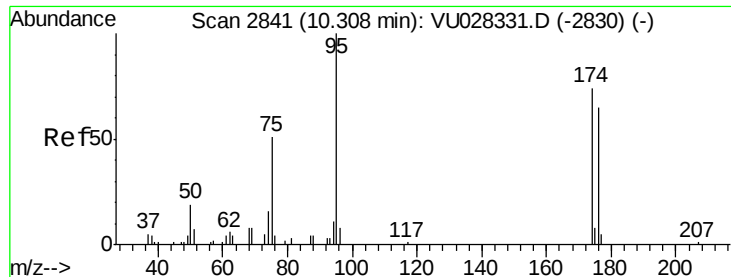
109 92.4 0.0 187.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#57  
4-Bromofluorobenzene  
Concen: 10.279 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

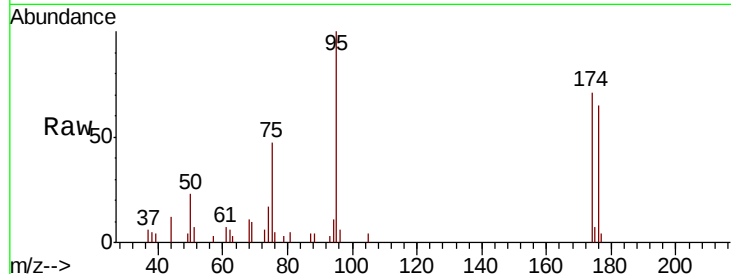
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 5389  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 71.9  | 59.3  | 88.9  |
| 176      | 68.6  | 54.3  | 81.5  |

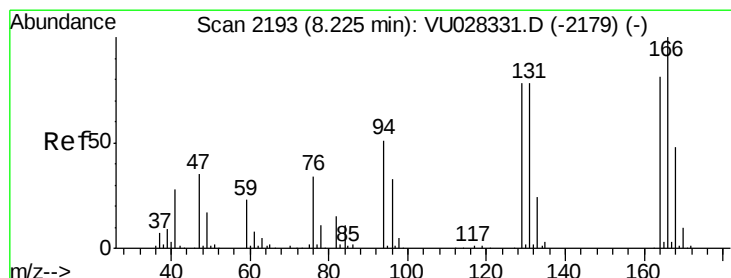
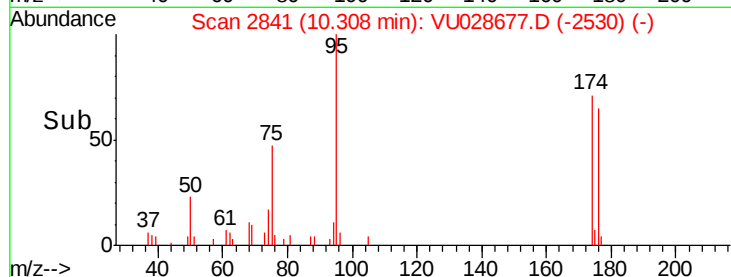
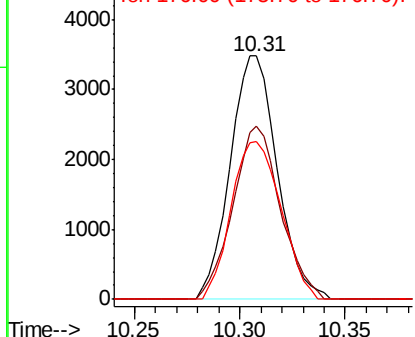
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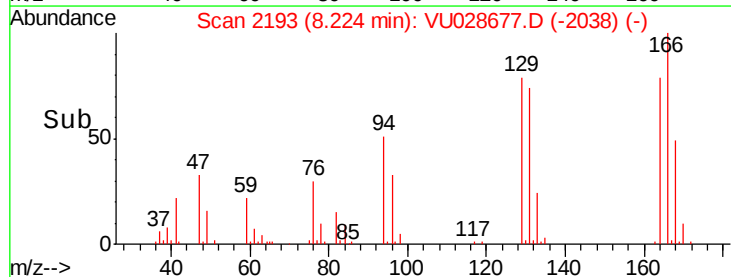
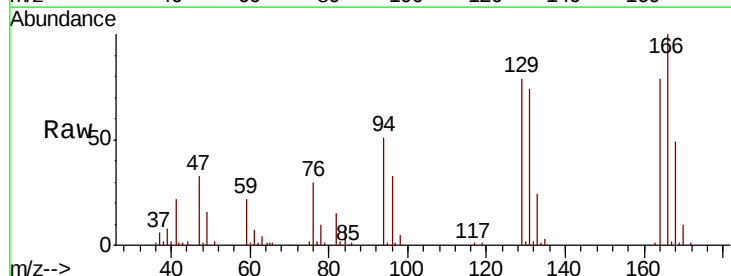
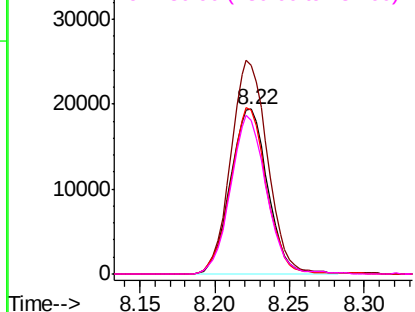
Abundance Ion 95.00 (94.70 to 95.70): VU028677.D (-2530) (-)  
Ion 174.00 (173.70 to 174.70): VU028677.D (-2530) (-)  
Ion 176.00 (175.70 to 176.70): VU028677.D (-2530) (-)

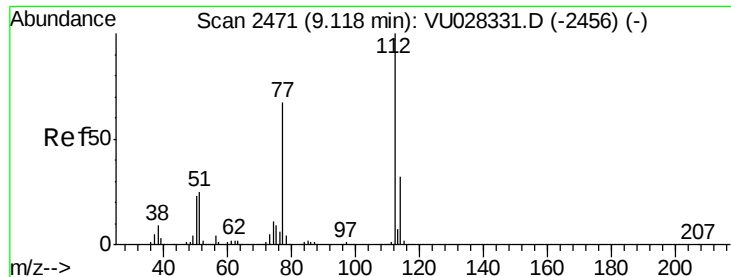


#58  
Tetrachloroethene  
Concen: 9.285 ug/l  
RT: 8.22 min Scan# 2193  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 33649 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 126.2 | 98.6  | 148.0 |
| 129      | 99.6  | 77.0  | 115.4 |
| 131      | 93.0  | 77.0  | 115.4 |

Abundance Ion 163.85 (163.55 to 164.55): VU028677.D (-2038) (-)  
Ion 165.80 (165.50 to 166.50): VU028677.D (-2038) (-)  
Ion 128.90 (128.60 to 129.60): VU028677.D (-2038) (-)  
Ion 130.90 (130.60 to 131.60): VU028677.D (-2038) (-)





#59  
Chlorobenzene  
Concen: 9.983 ug/l  
RT: 9.12 min Scan# 2471  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

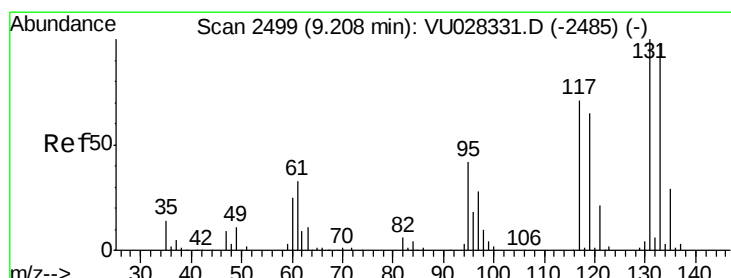
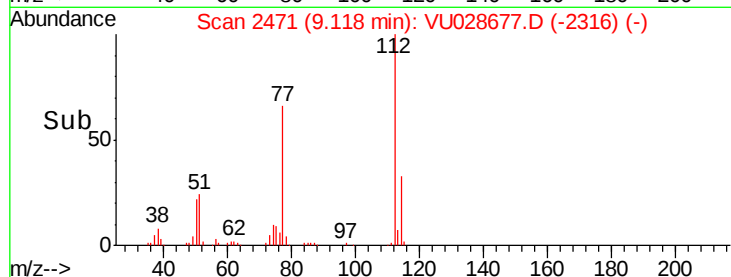
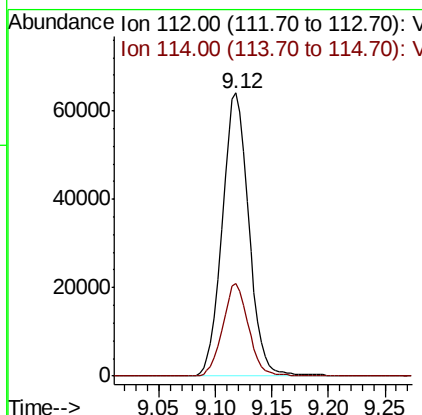
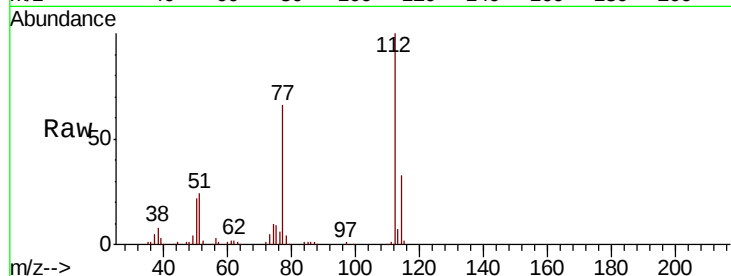
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.8  | 25.2  | 37.8  |

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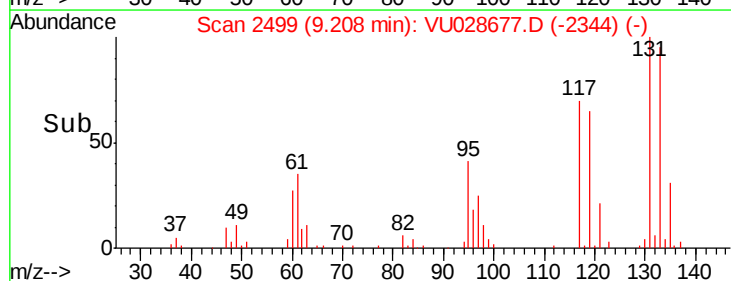
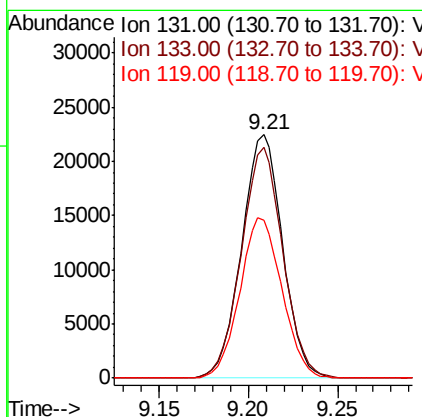
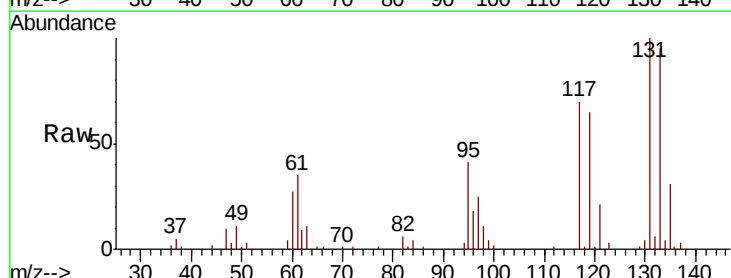
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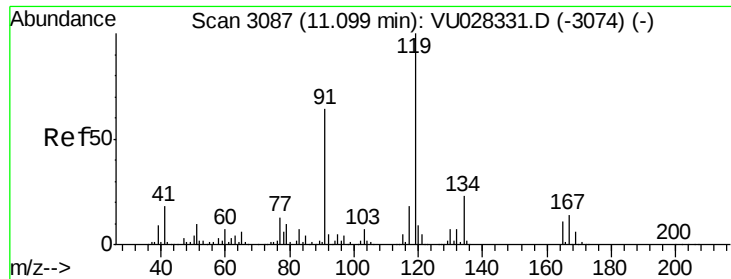
12/14/2018 9:32:32 AM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 10.154 ug/l  
RT: 9.21 min Scan# 2499  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 96.0  | 77.7  | 116.5 |
| 119     | 67.6  | 54.3  | 81.5  |





#61  
 Pentachloroethane  
 Concen: 11.703 ug/l  
 RT: 11.10 min Scan# 3087  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

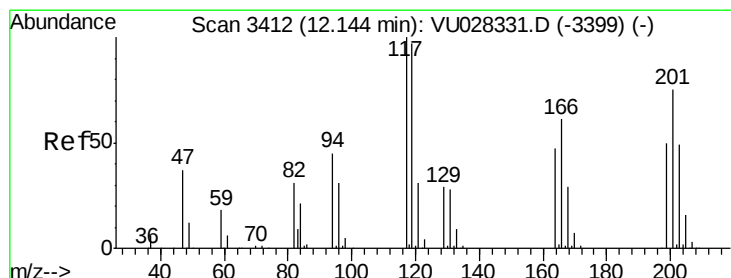
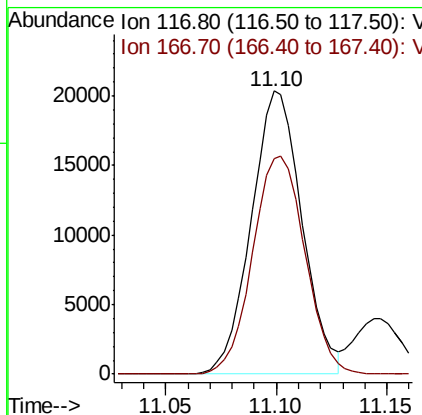
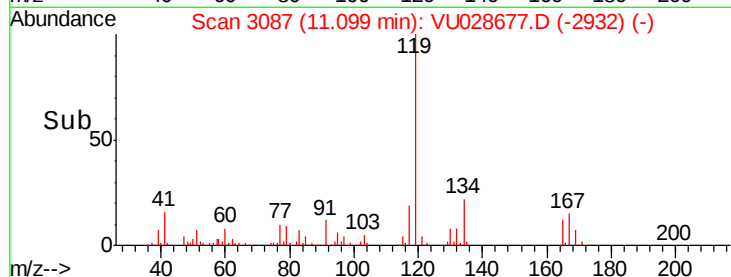
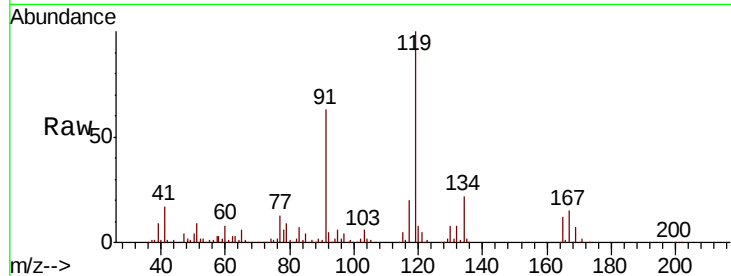
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 167     | 79.3  | 64.2  | 96.2  |

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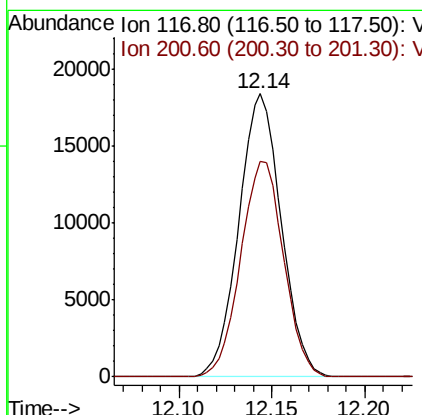
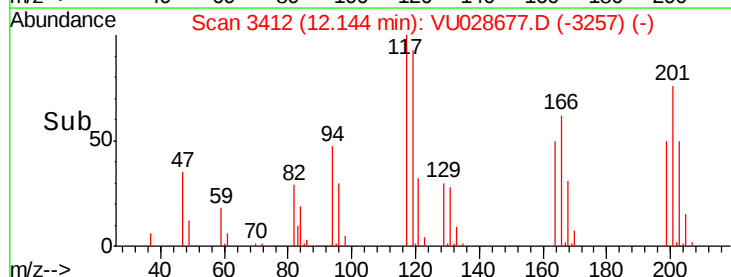
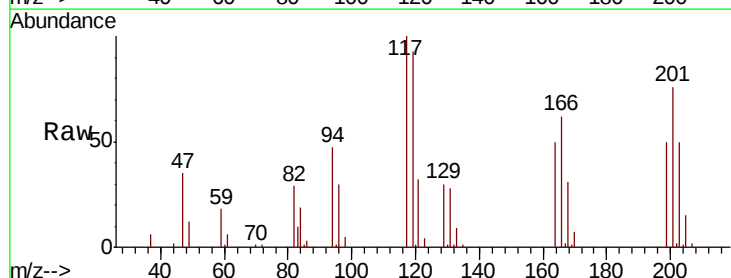
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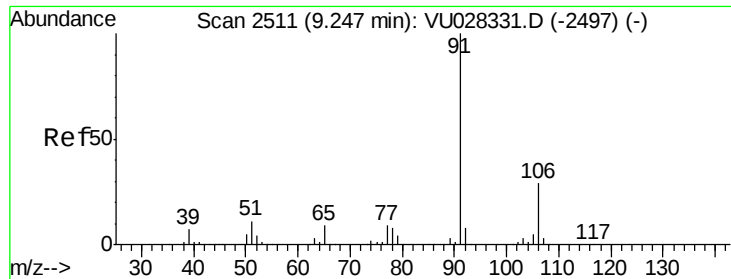
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#62  
 Hexachloroethane  
 Concen: 11.251 ug/l  
 RT: 12.14 min Scan# 3412  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 77.0  | 59.4  | 89.2  |





#63  
Ethyl Benzene  
Concen: 10.180 ug/l  
RT: 9.25 min Scan# 2511  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

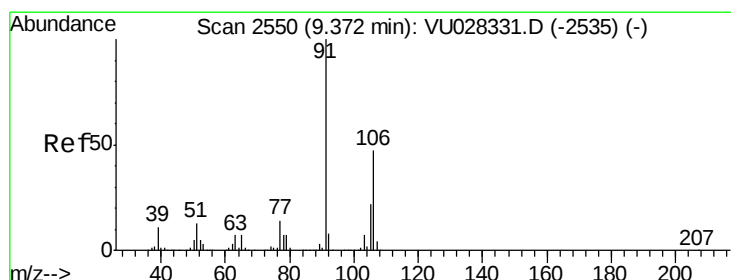
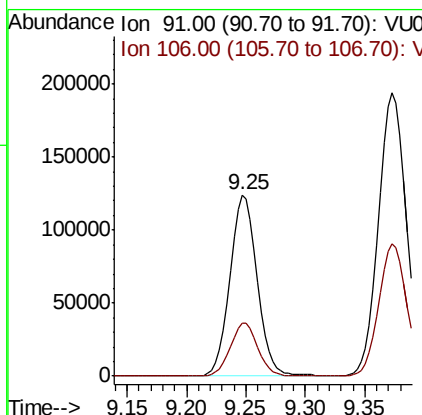
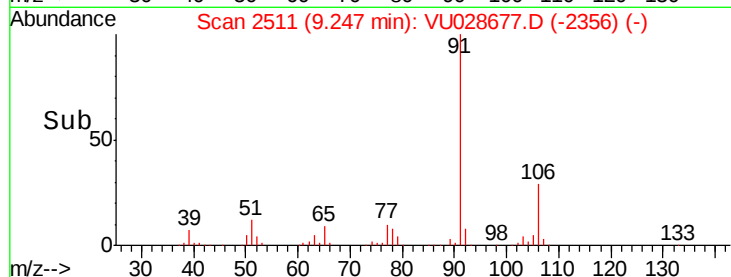
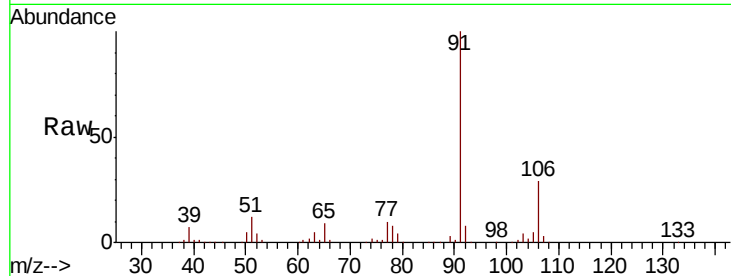
Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

Tot Ion: 91 Resp: 197279  
Ion Ratio Lower Upper  
91 100  
106 29.2 23.4 35.2

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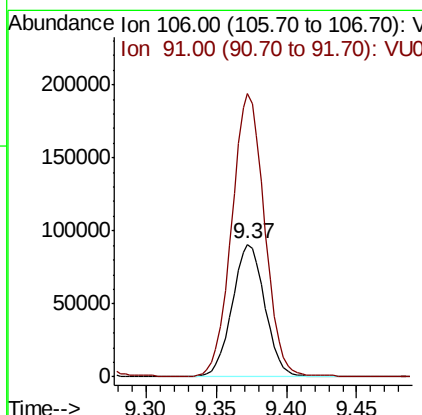
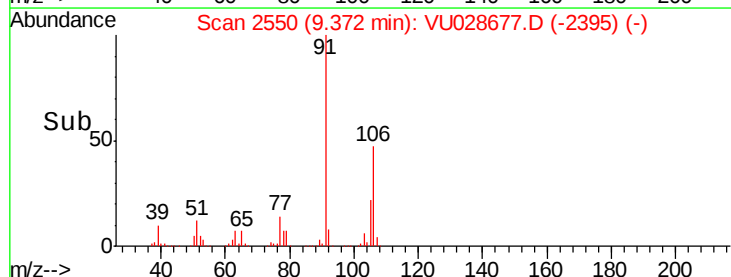
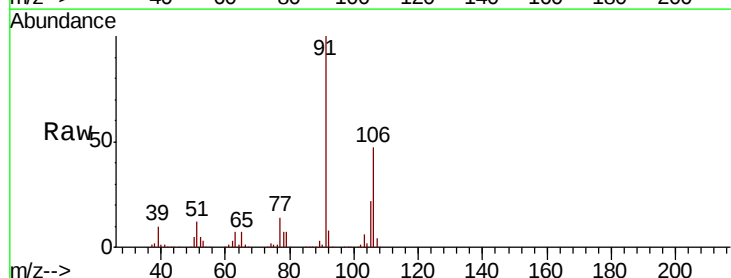
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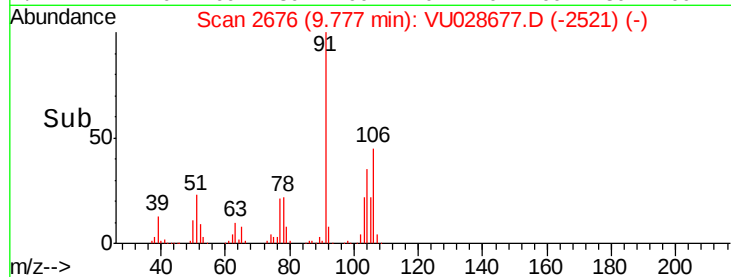
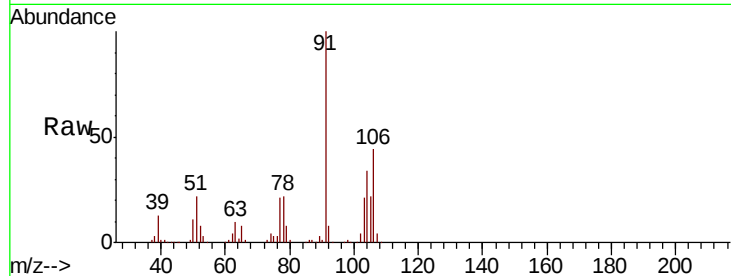
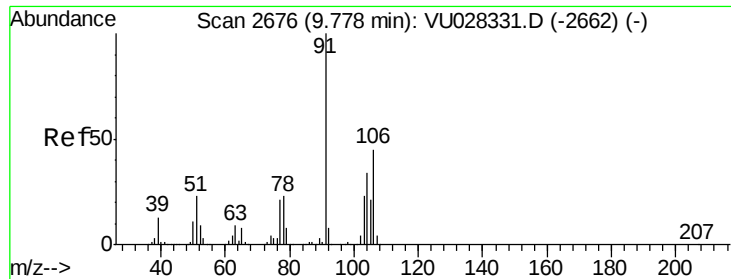
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#64  
m/p-Xylenes  
Concen: 21.077 ug/l  
RT: 9.37 min Scan# 2550  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

Tgt Ion: 106 Resp: 147812  
Ion Ratio Lower Upper  
106 100  
91 212.9 170.6 256.0





#65  
o-Xylene  
Concen: 10.413 ug/l  
RT: 9.78 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

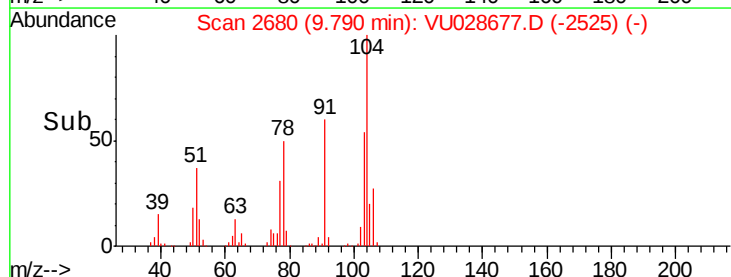
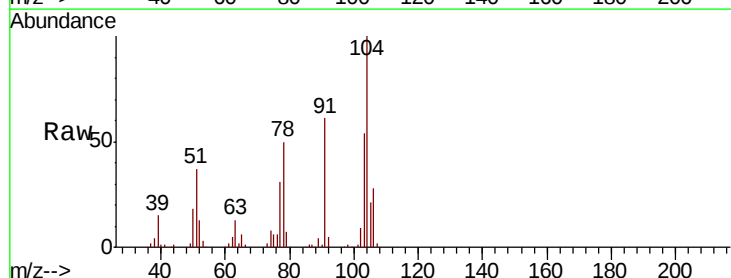
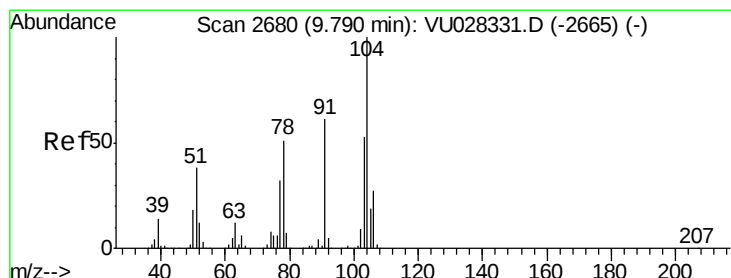
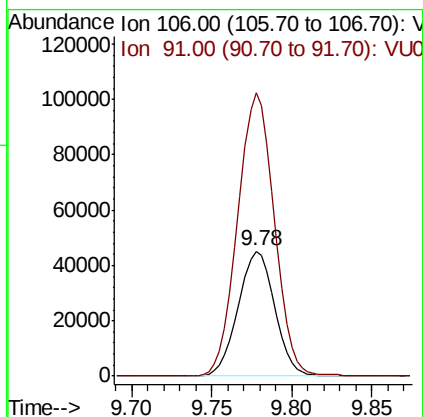
Tot Ion:106 Resp: 70469  
Ion Ratio Lower Upper  
106 100  
91 227.4 112.3 337.0

Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-TW001-01MSD

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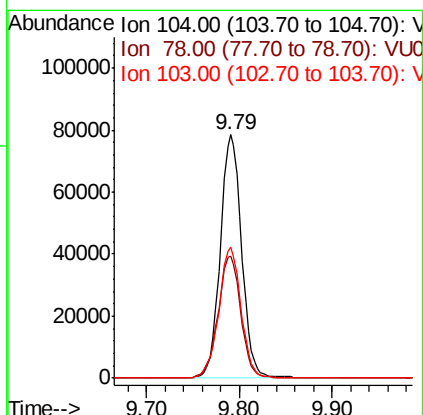
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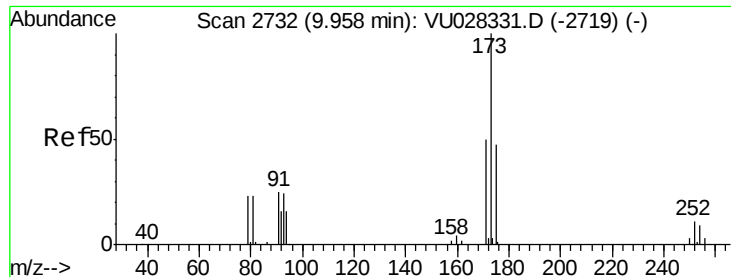
12/14/2018 9:32:32 AM



#66  
Styrene  
Concen: 10.801 ug/l  
RT: 9.79 min Scan# 2680  
Delta R.T. -0.00 min  
Lab File: VU028677.D  
Acq: 13 Dec 2018 14:38

Tgt Ion:104 Resp: 125374  
Ion Ratio Lower Upper  
104 100  
78 53.4 44.0 66.0  
103 55.7 45.2 67.8





#67

Bromoform

Concen: 10.404 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

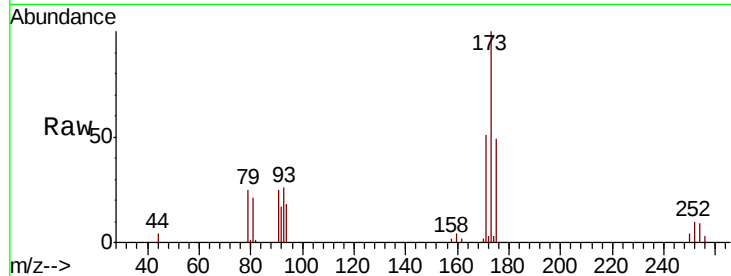
P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 19211 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 50.0  | 39.0  | 58.6  |
| 254       | 8.7   | 6.8   | 10.2  |

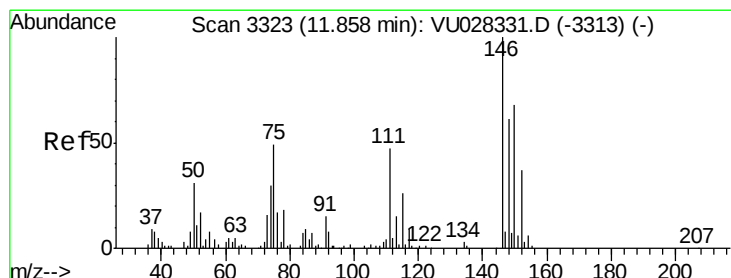
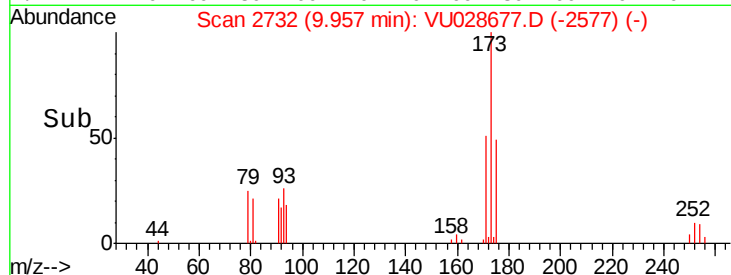
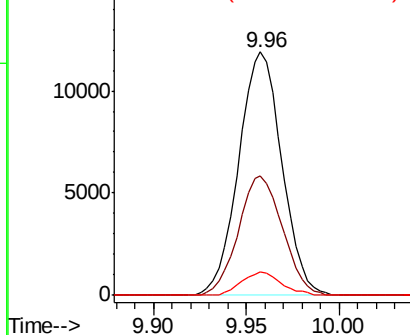
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Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 10.404 ug/l

RT: 11.86 min Scan# 3323

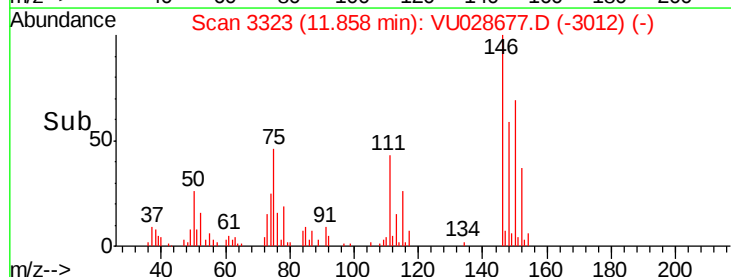
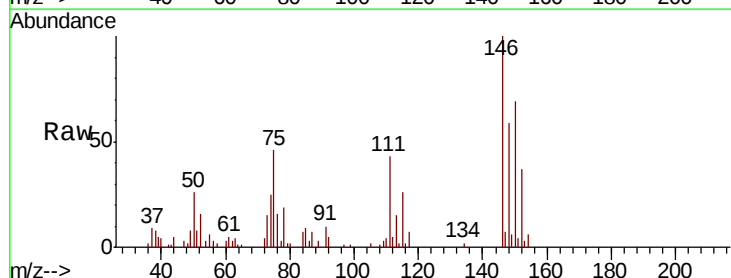
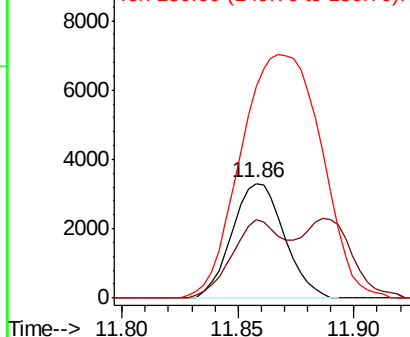
Delta R.T. -0.00 min

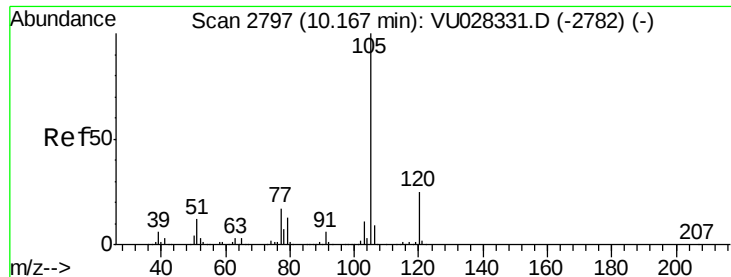
Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 5160  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 64.3  | 0.0   | 146.8 |
| 150       | 329.6 | 0.0   | 653.2 |

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: 10.349 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 105 Resp: 187542

Ion Ratio Lower Upper

105 100

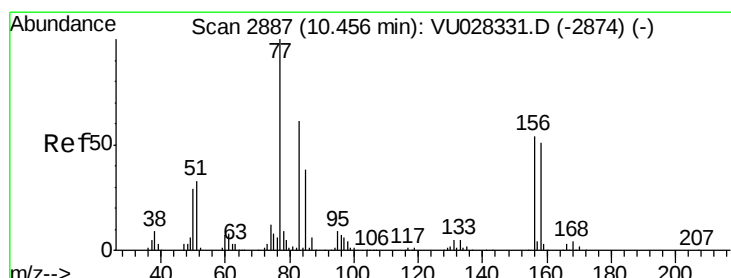
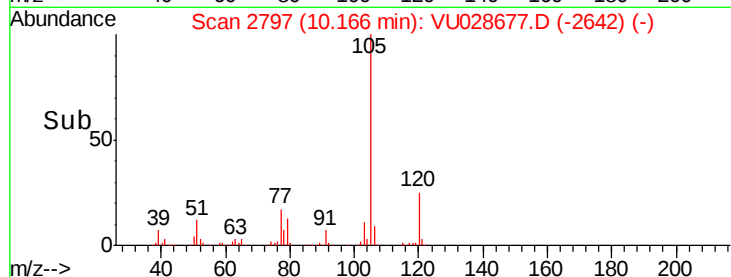
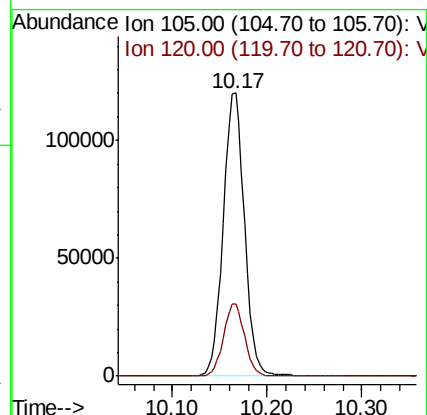
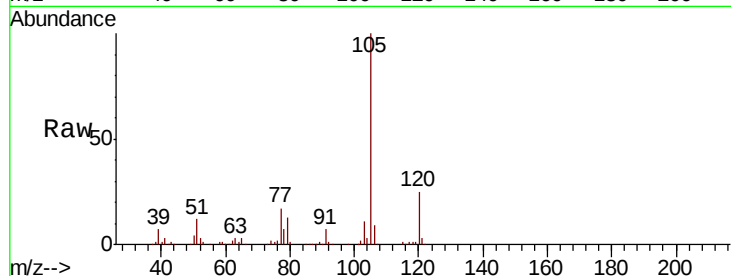
120 25.3 12.6 37.6

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#70

1,1,2,2-Tetrachloroethane

Concen: 10.864 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

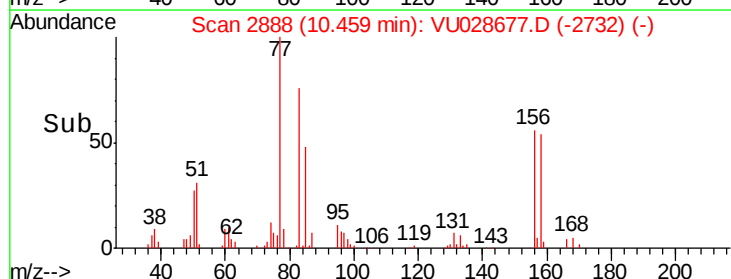
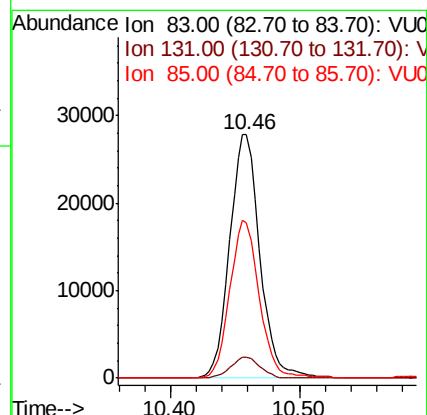
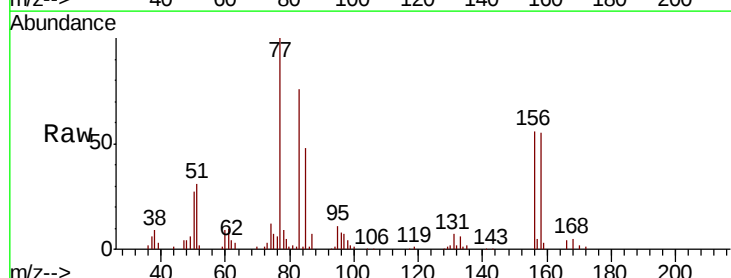
Tgt Ion: 83 Resp: 45139

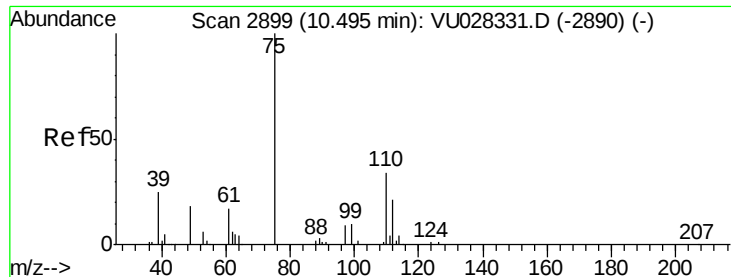
Ion Ratio Lower Upper

83 100

131 8.2 6.6 9.8

85 63.3 50.5 75.7





#71

1,2,3-Trichloropropane

Concen: 10.026 ug/l

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

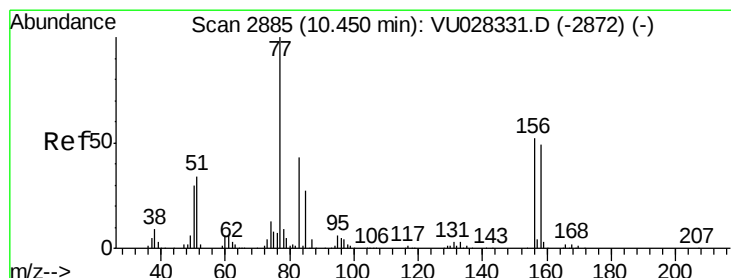
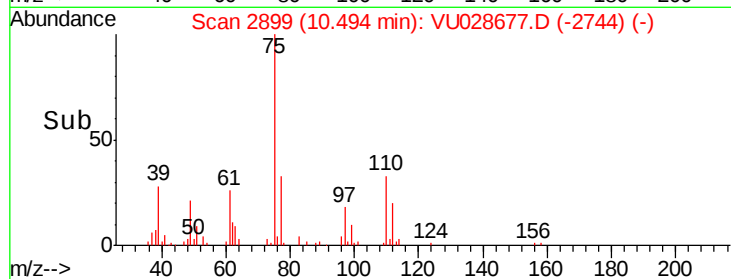
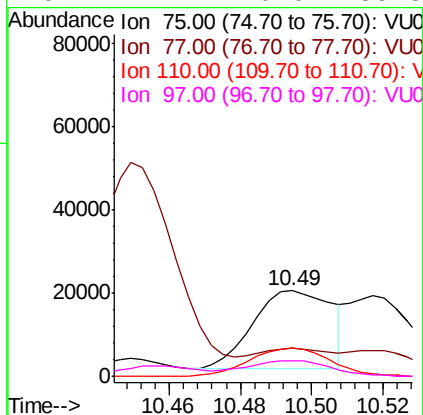
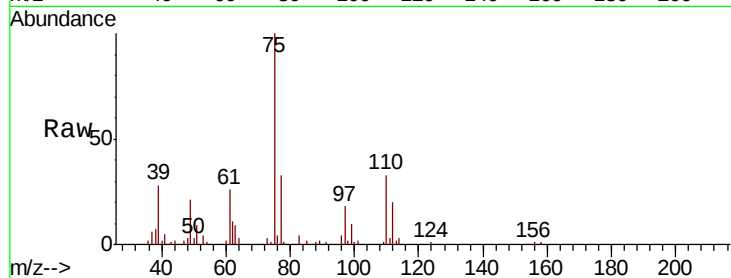
P001-TW001-01MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 0.0   |
| 110     | 36.9  | 0.0   | 67.6  |
| 97      | 21.2  | 0.0   | 35.8  |

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#72

Bromobenzene

Concen: 10.793 ug/l

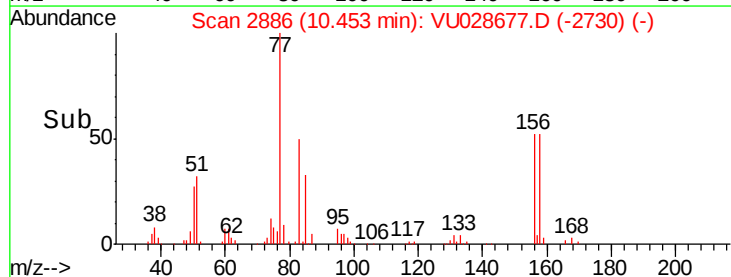
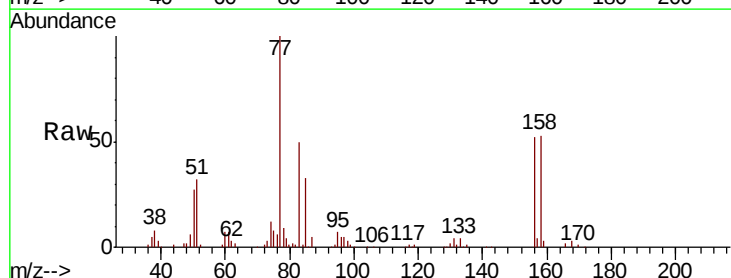
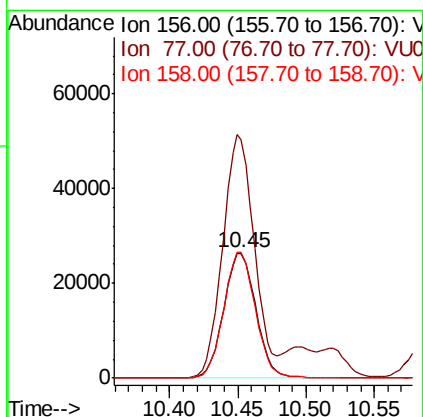
RT: 10.45 min Scan# 2886

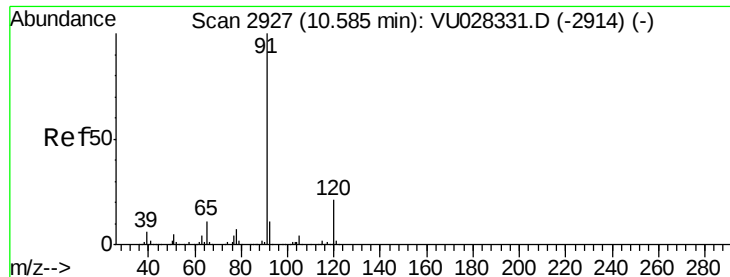
Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 189.9 | 0.0   | 380.4 |
| 158     | 98.8  | 0.0   | 191.2 |





#73

n-propylbenzene

Concen: 10.916 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion:120 Resp: 51303

Ion Ratio Lower Upper

120 100

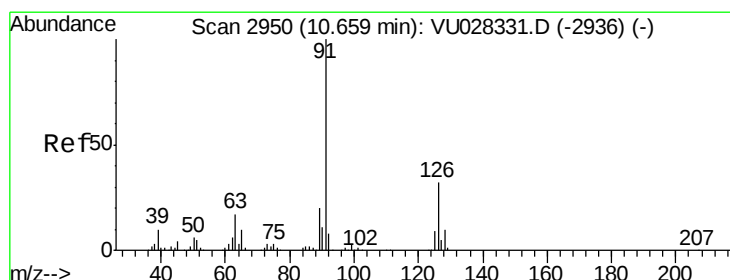
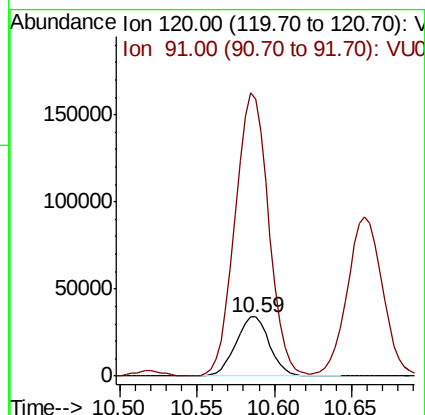
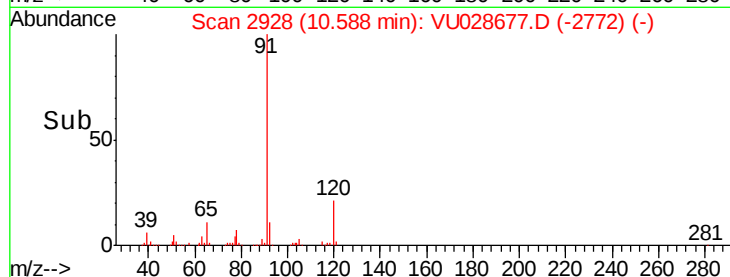
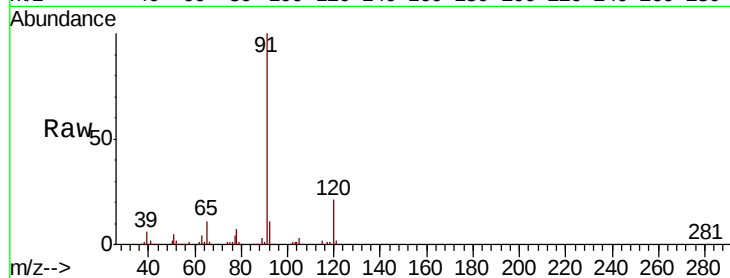
91 476.6 388.1 582.1

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#74

2-Chlorotoluene

Concen: 10.964 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VU028677.D

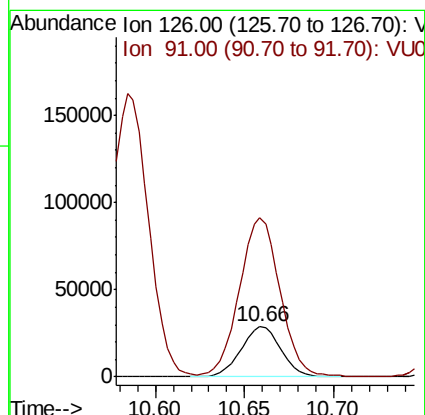
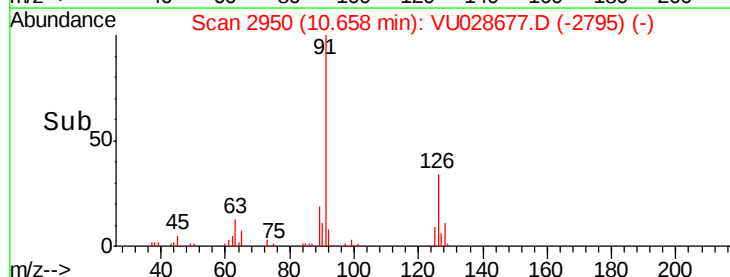
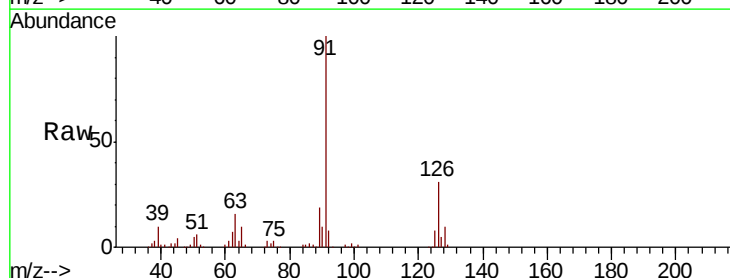
Acq: 13 Dec 2018 14:38

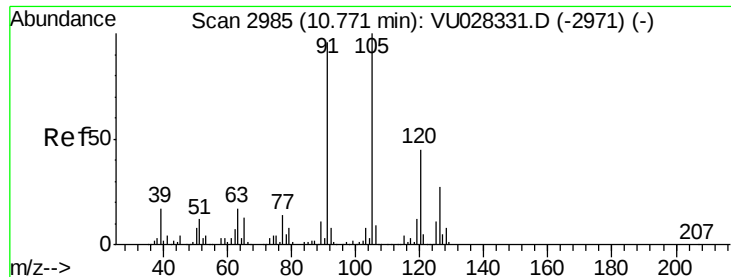
Tgt Ion:126 Resp: 45154

Ion Ratio Lower Upper

126 100

91 319.7 0.0 661.0





#75

1,3,5-Trimethylbenzene

Concen: 10.864 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion:105 Resp: 165697

Ion Ratio Lower Upper

105 100

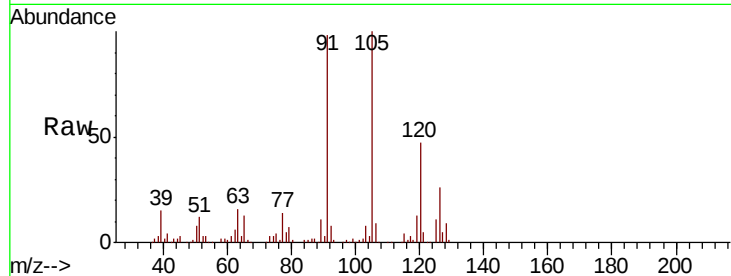
120 46.7 36.3 54.5

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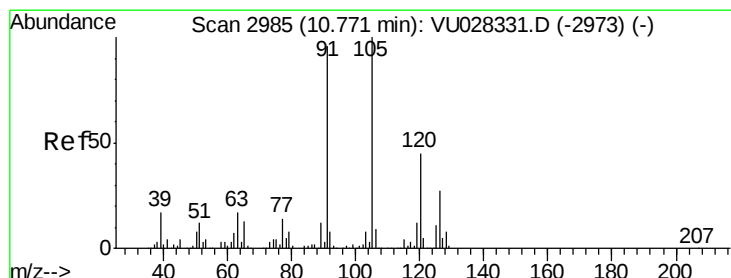
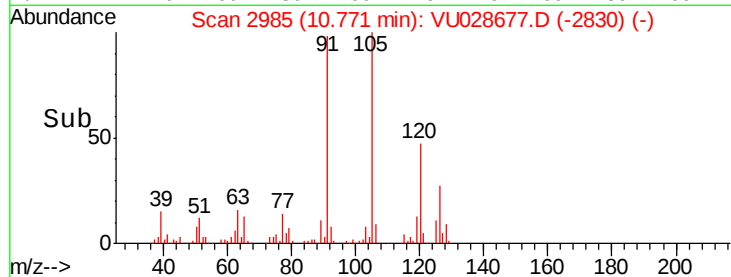
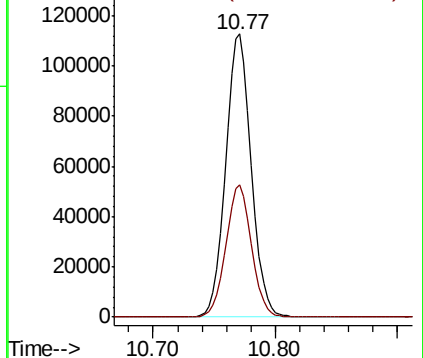
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 10.771 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028677.D

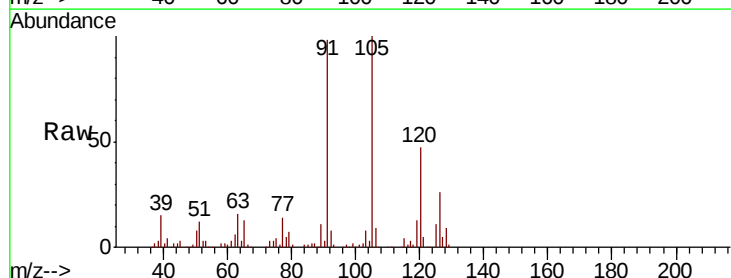
Acq: 13 Dec 2018 14:38

Tgt Ion:126 Resp: 44973

Ion Ratio Lower Upper

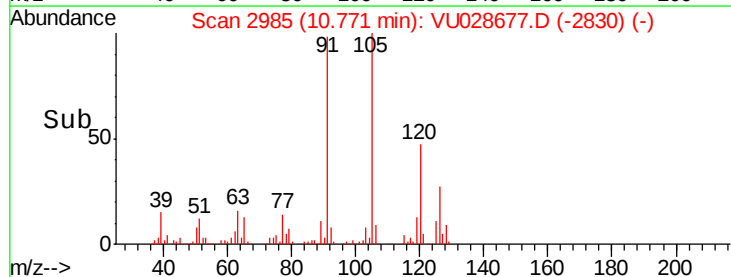
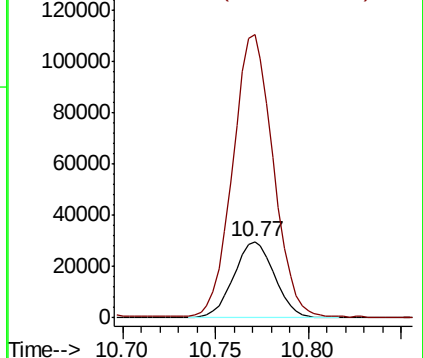
126 100

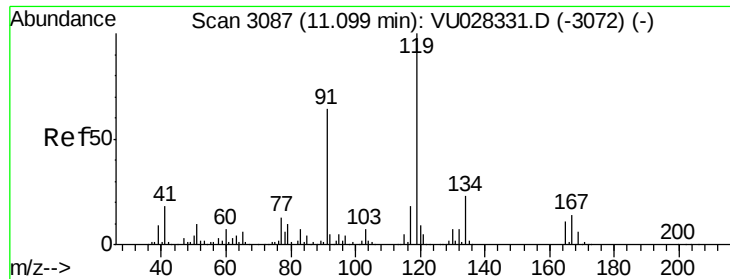
91 368.7 0.0 731.2



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#77  
 tert-Butylbenzene  
 Concen: 10.895 ug/l  
 RT: 11.10 min Scan# 3087  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

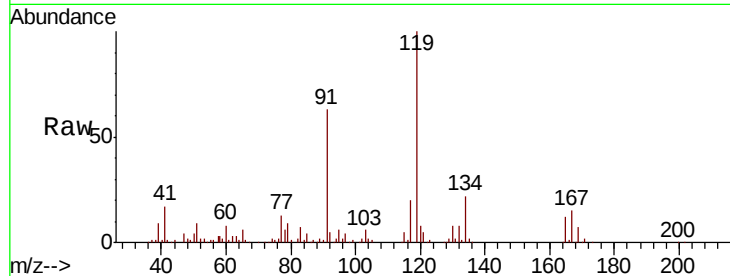
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 156436 |       |       |
| 91      | 63.2  | 32.0   | 96.0  |       |
| 134     | 22.0  | 17.9   | 26.9  |       |

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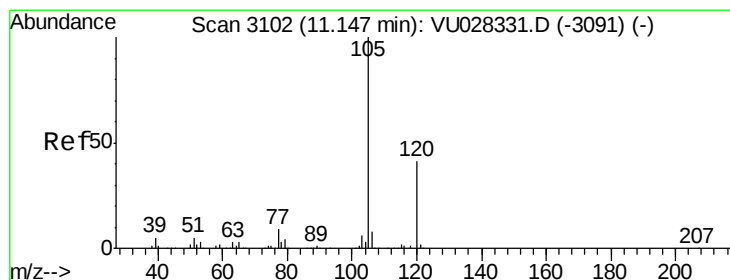
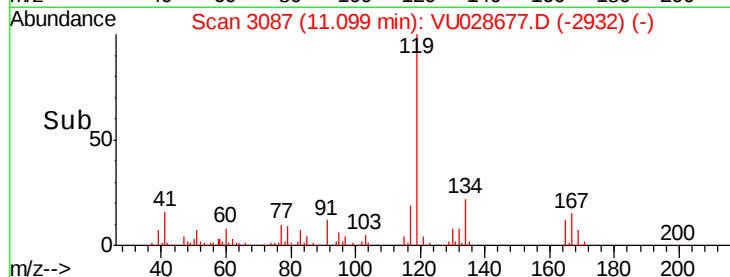
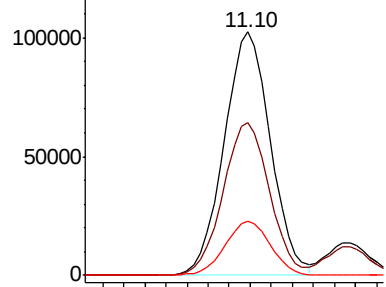


Abundance

Ion 119.00 (118.70 to 119.70): V

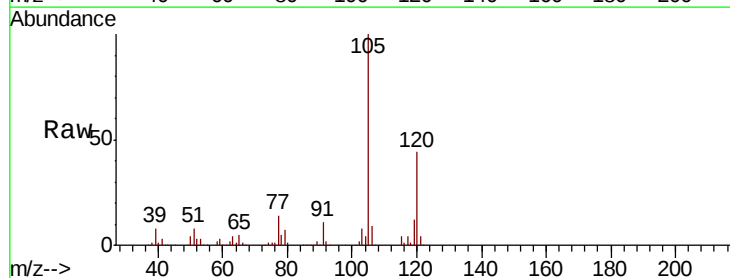
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#78  
 1,2,4-Trimethylbenzene  
 Concen: 10.853 ug/l  
 RT: 11.15 min Scan# 3102  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

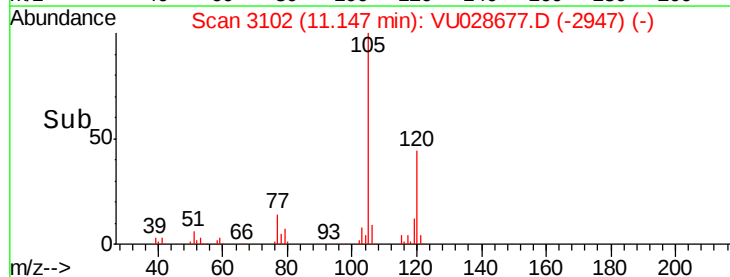
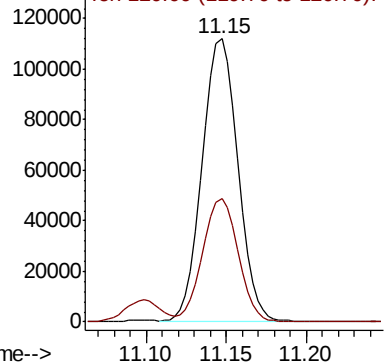
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 169622 |       |       |
| 120     | 43.4  | 21.9   | 65.8  |       |

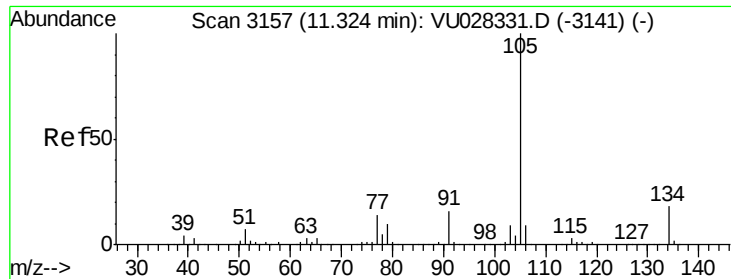


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 10.818 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

P001-TW001-01MSD

Tot Ion: 105 Resp: 216548

Ion Ratio Lower Upper

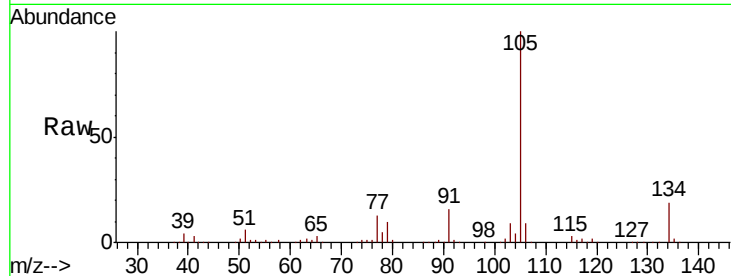
105 100

134 18.7 14.6 22.0

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

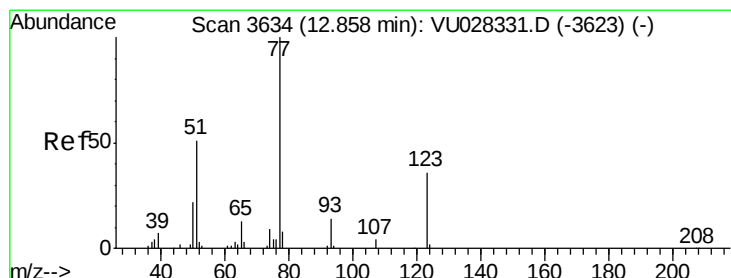
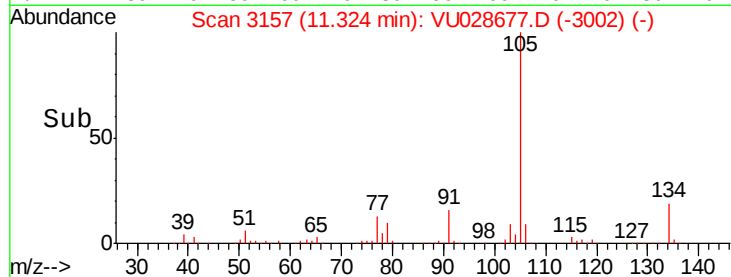
150000

100000

50000

0

Time-->



#80

Nitrobenzene

Concen: 59.890 ug/l

RT: 12.86 min Scan# 3635

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

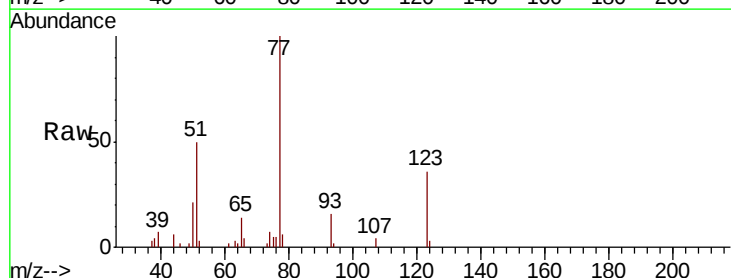
Tgt Ion: 77 Resp: 11210

Ion Ratio Lower Upper

77 100

123 37.1 16.5 58.3

65 12.9 12.1 15.3



Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0

12.86

8000

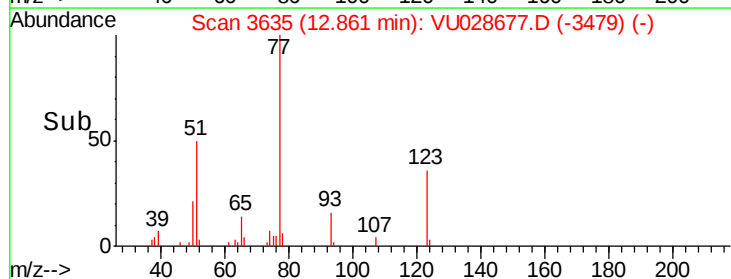
6000

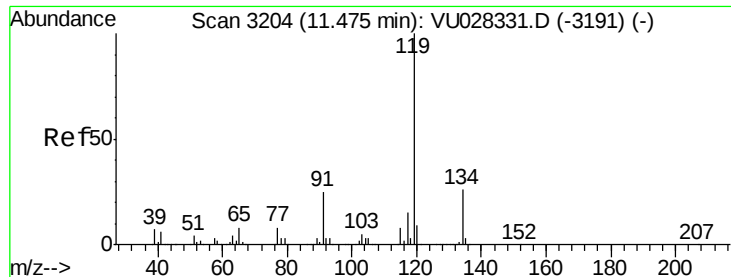
4000

2000

0

Time-->





#81  
 p-Isopropyltoluene  
 Concen: 10.872 ug/l  
 RT: 11.48 min Scan# 3204  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

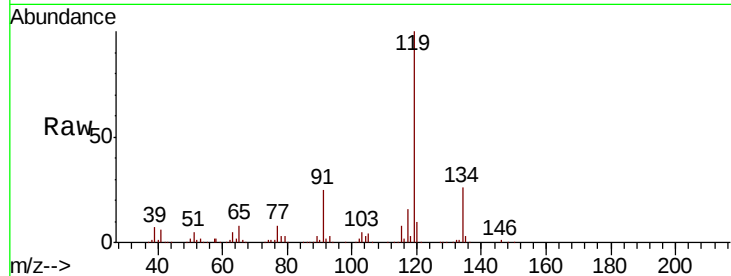
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 172938 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 134       | 25.5  | 20.3  | 30.5   |
| 91        | 24.9  | 20.0  | 30.0   |

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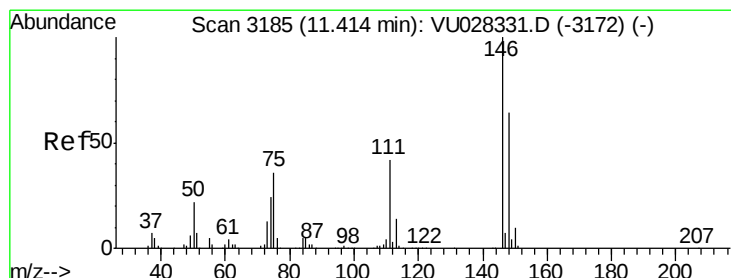
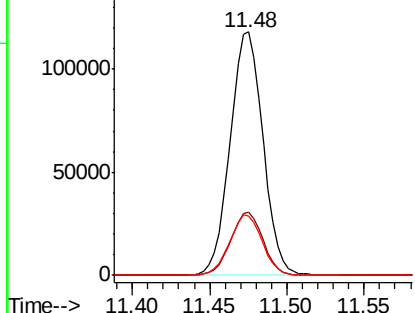
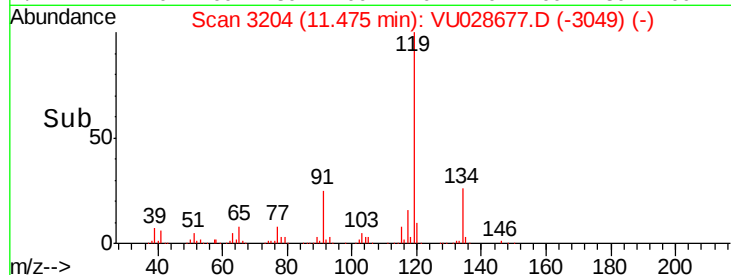


Abundance

Ion 119.00 (118.70 to 119.70): V

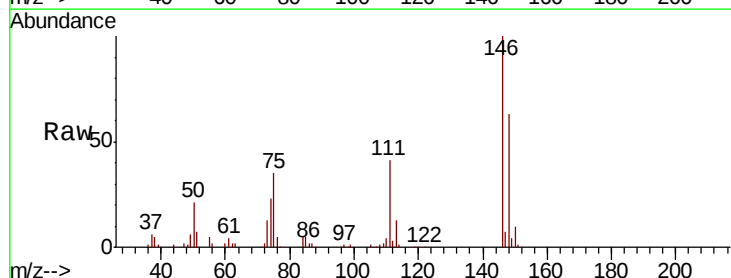
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#82  
 1,3-Dichlorobenzene  
 Concen: 11.126 ug/l  
 RT: 11.41 min Scan# 3185  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 89636 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 41.0  | 33.4  | 50.2  |
| 148       | 63.2  | 51.2  | 76.8  |

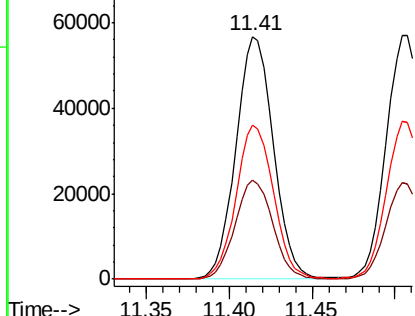
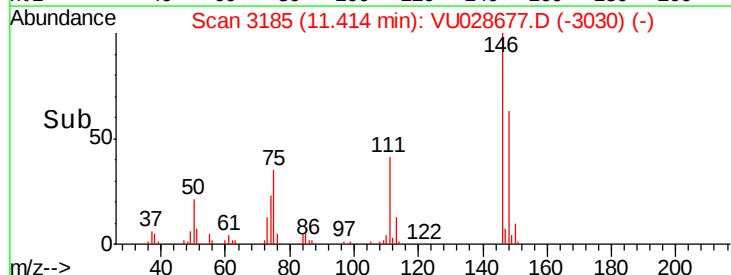


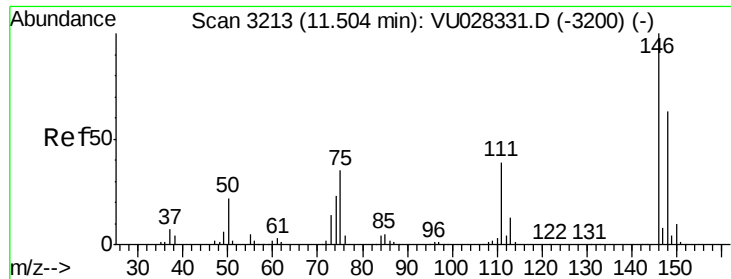
Abundance

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





#83

1,4-Dichlorobenzene

Concen: 11.159 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

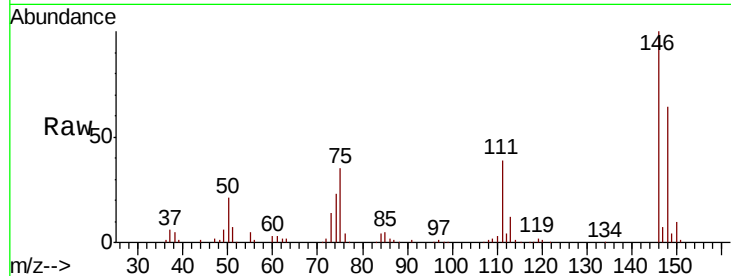
P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 89483 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 39.6  | 31.4  | 47.2  |
| 148       | 63.8  | 50.7  | 76.1  |

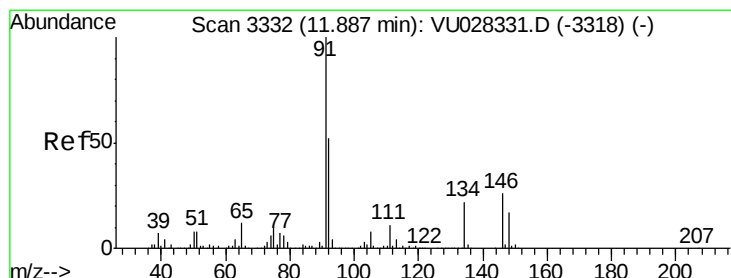
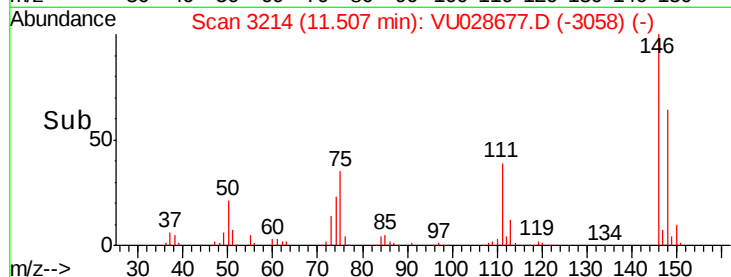
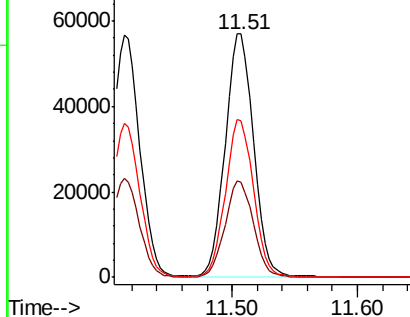
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Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#84

n-Butylbenzene

Concen: 10.845 ug/l

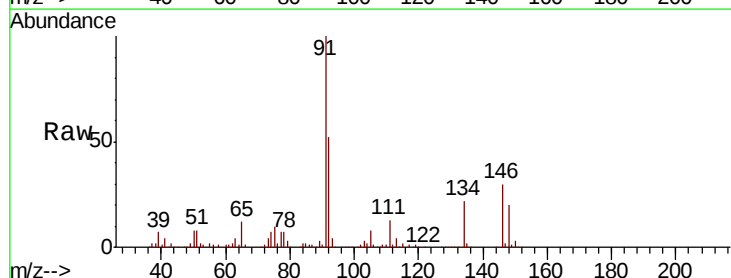
RT: 11.89 min Scan# 3332

Delta R.T. -0.00 min

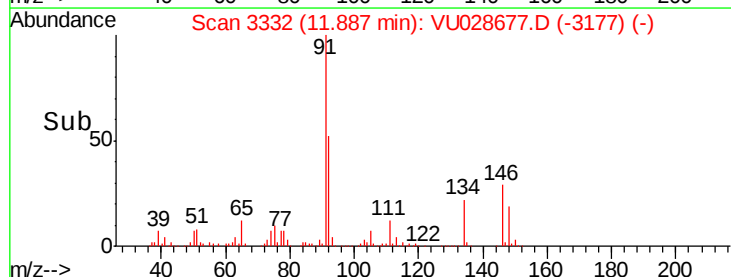
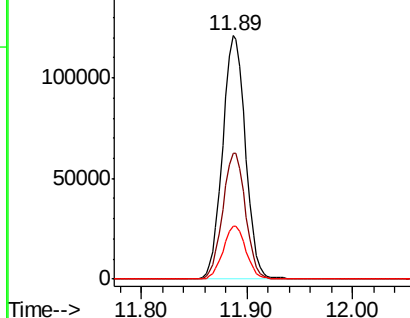
Lab File: VU028677.D

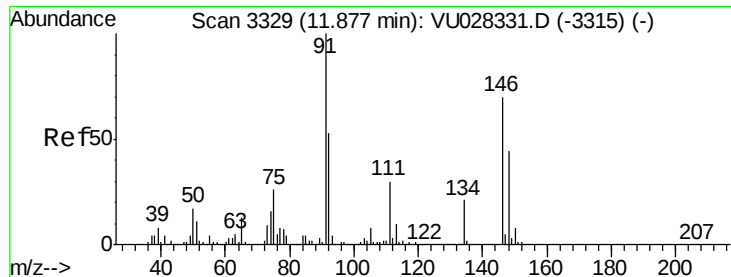
Acq: 13 Dec 2018 14:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 181112 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 51.6  | 41.6  | 62.4   |
| 134       | 21.7  | 17.8  | 26.6   |



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: 11.119 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

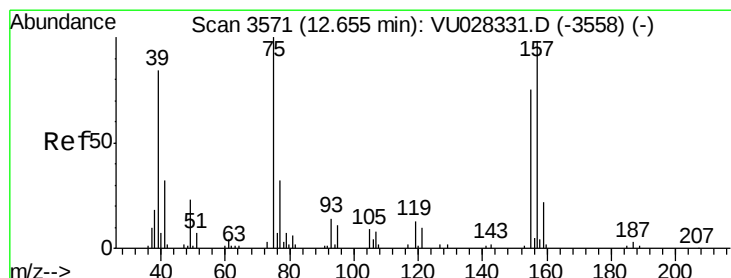
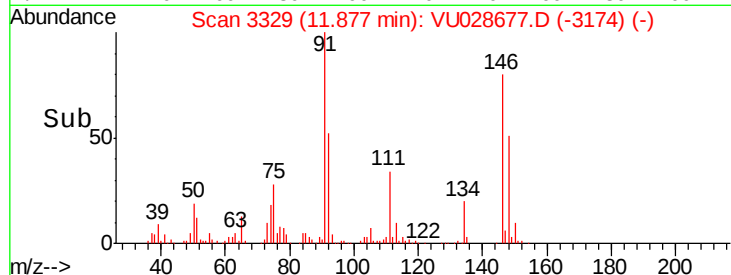
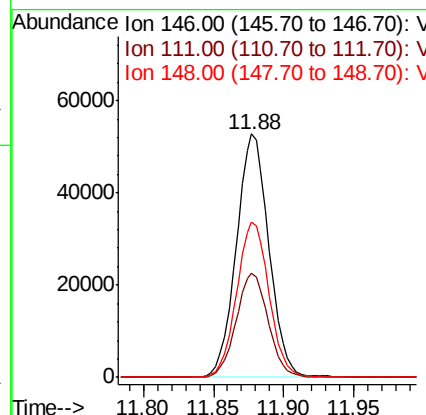
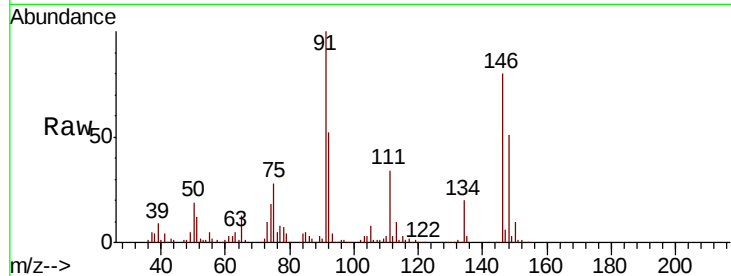
P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 85269 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 42.2  | 21.4  | 64.3  |
| 148       | 63.5  | 31.4  | 94.2  |

Manual Integrations  
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#86

1,2-Dibromo-3-Chloropropane

Concen: 10.660 ug/l

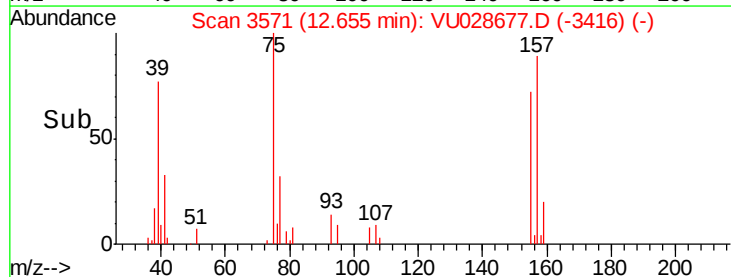
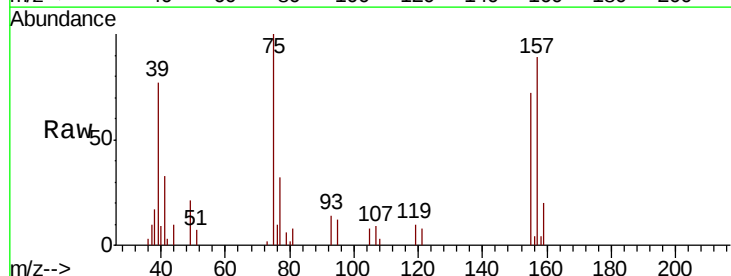
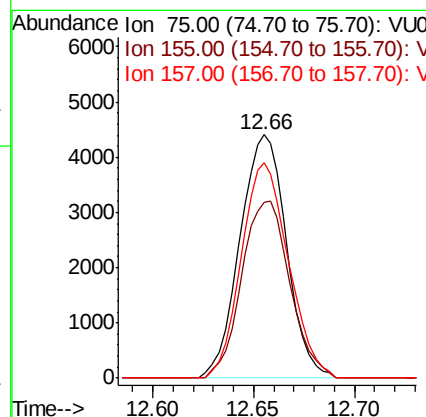
RT: 12.66 min Scan# 3571

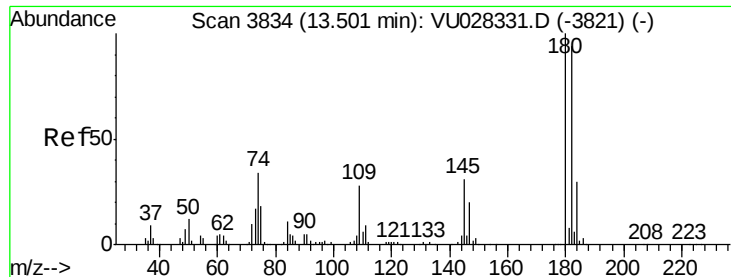
Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 7125  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 75.3  | 57.0  | 85.4  |
| 157       | 89.3  | 75.4  | 113.2 |





#87  
 1,2,4-Trichlorobenzene  
 Concen: 10.488 ug/l  
 RT: 13.50 min Scan# 3834  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

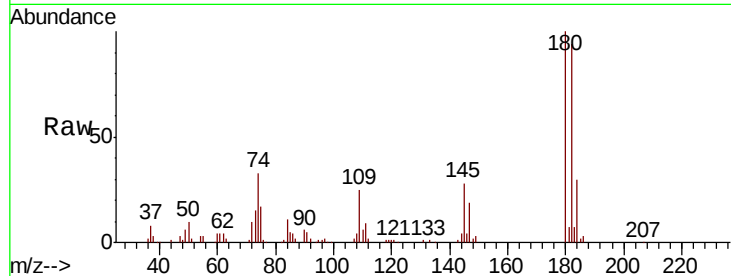
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-TW001-01MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 180   | Resp: | 56537 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 94.8  | 75.6  | 113.4 |
| 145       | 29.3  | 24.4  | 36.6  |

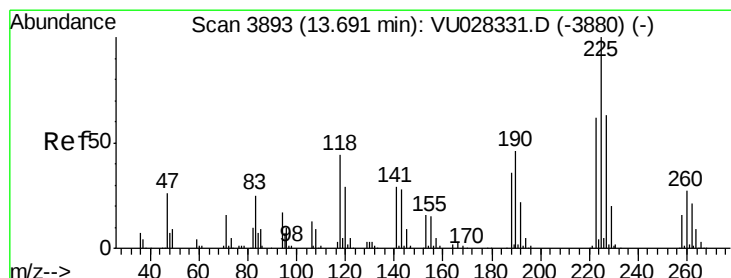
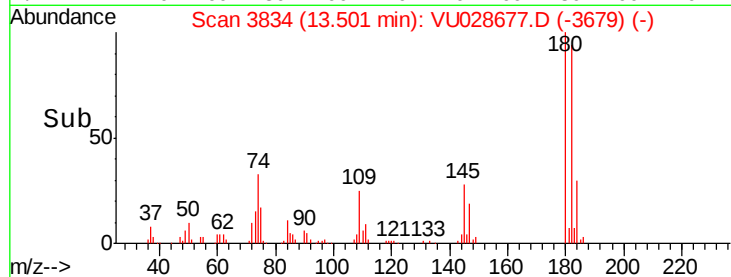
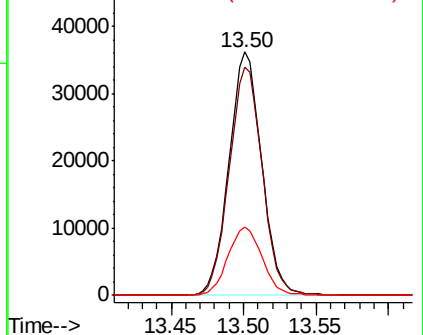
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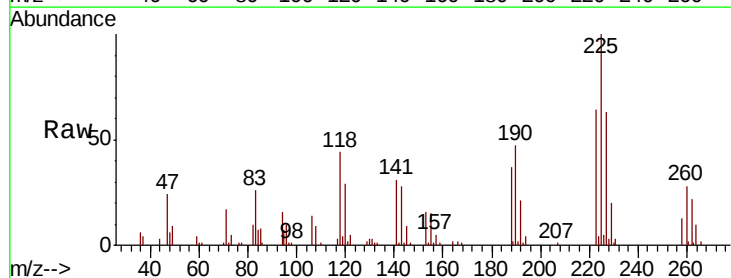


Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

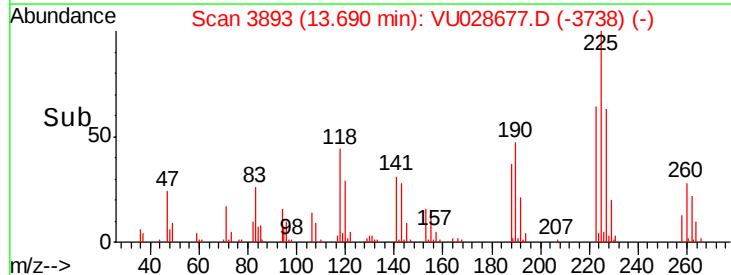
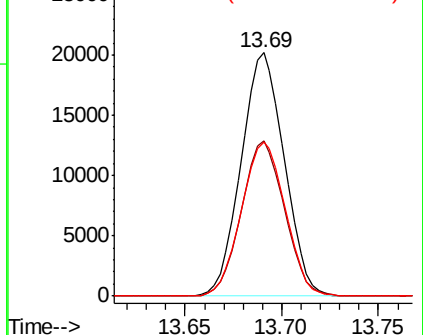


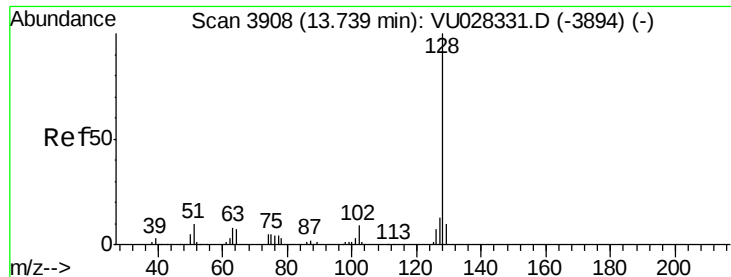
#88  
 Hexachlorobutadiene  
 Concen: 10.737 ug/l  
 RT: 13.69 min Scan# 3893  
 Delta R.T. -0.00 min  
 Lab File: VU028677.D  
 Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 31318 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 63.8  | 50.6  | 76.0  |
| 227       | 64.3  | 50.8  | 76.2  |



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: 10.642 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

Instrument :

MSVOA\_U

ClientSampleId :

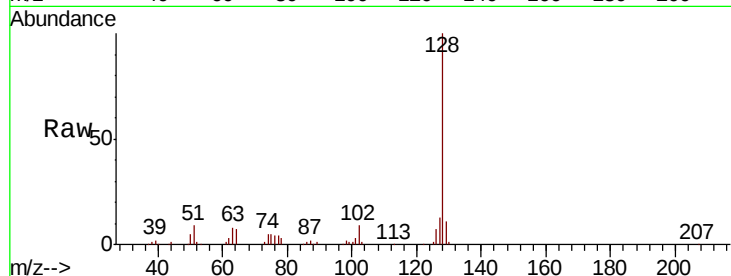
P001-TW001-01MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 113376 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.3  | 10.3  | 15.5   |
| 129       | 10.6  | 8.2   | 12.4   |

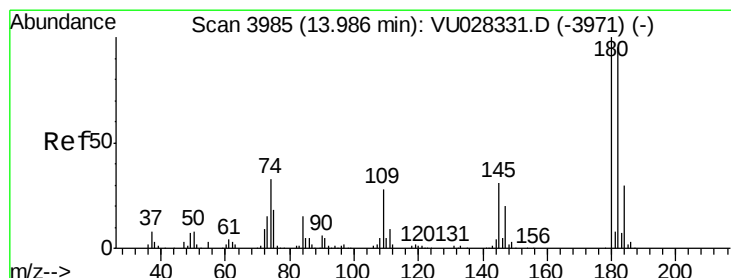
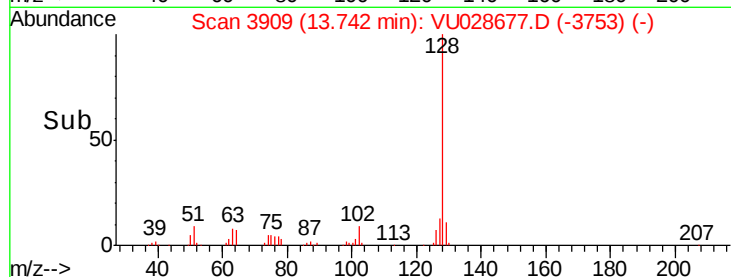
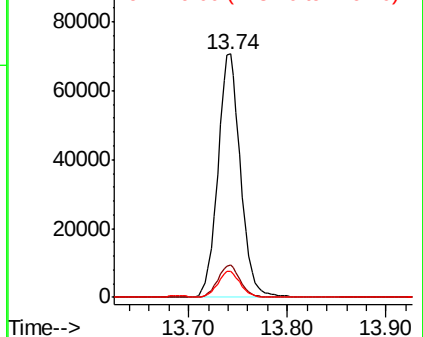
Manual Integrations  
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12/14/2018 9:32:32 AM



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: 10.723 ug/l

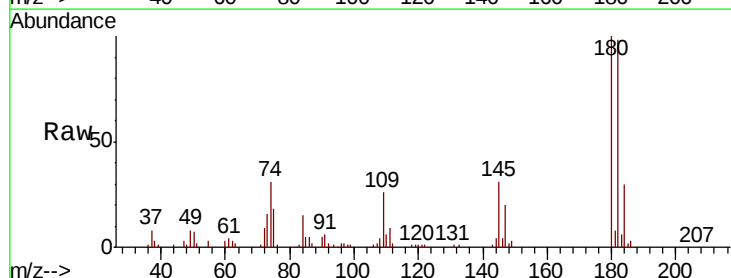
RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028677.D

Acq: 13 Dec 2018 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 54504 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.7  | 76.1  | 114.1 |
| 145       | 31.2  | 26.0  | 39.0  |



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

