

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\  
 Data File : VU029384.D  
 Acq On : 08 Feb 2019 17:46  
 Operator : JC/SP  
 Sample : VU0208WBSD01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 2/18/2019 12:15:56 PM

Quant Time: Feb 09 04:04:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Feb 08 10:52:46 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|--------|---------|----------|
| -----                         | ----- | ----- | -----    | -----  | -----   | -----    |
| 1) Fluorobenzene              | 5.74  | 96    | 51149    | 1.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |        |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 19726    | 0.99   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 99.00%  |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 21911    | 1.07   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 107.00% |          |
| Target Compounds              |       |       |          |        |         |          |
|                               |       |       |          |        | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.21  | 85    | 37525    | 1.966  | ug/l    | 99       |
| 3) Chloromethane              | 1.33  | 50    | 31810    | 1.824  | ug/l    | 94       |
| 4) Vinyl Chloride             | 1.40  | 62    | 39705    | 1.942  | ug/l    | 96       |
| 5) Bromomethane               | 1.63  | 94    | 27617    | 2.428  | ug/l    | 97       |
| 6) Chloroethane               | 1.70  | 64    | 23151    | 1.938  | ug/l    | 99       |
| 7) Trichlorofluoromethane     | 1.88  | 101   | 63263    | 2.215  | ug/l    | 96       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 34915    | 2.316  | ug/l    | 89       |
| 9) 1,1-Dichloroethene         | 2.28  | 96    | 32620    | 2.211  | ug/l    | 72       |
| 10) Iodomethane               | 2.41  | 142   | 29217    | 1.583  | ug/l #  | 78       |
| 11) Allyl Chloride            | 2.59  | 41    | 47762    | 1.930  | ug/l    | 91       |
| 12) Acrylonitrile             | 2.94  | 53    | 14225    | 4.301  | ug/l    | 90       |
| 13) Acetone                   | 2.32  | 43    | 28569    | 8.964  | ug/l #  | 80       |
| 14) Carbon Disulfide          | 2.48  | 76    | 108878   | 2.090  | ug/l    | 98       |
| 15) Methylene Chloride        | 2.70  | 84    | 38093    | 2.129  | ug/l #  | 76       |
| 16) trans-1,2-Dichloroethene  | 2.98  | 96    | 36655    | 2.221  | ug/l #  | 78       |
| 17) 1,1-Dichloroethane        | 3.44  | 63    | 50553    | 1.933  | ug/l #  | 93       |
| 18) 2-Butanone                | 4.28  | 43    | 32366    | 9.086  | ug/l    | 98       |
| 19) Cyclohexane               | 4.99  | 56    | 38074    | 1.570  | ug/l #  | 85       |
| 20) Methylcyclohexane         | 6.41  | 83    | 52402    | 2.058  | ug/l #  | 81       |
| 21) 2,2-Dichloropropane       | 4.22  | 77    | 47177    | 1.949  | ug/l #  | 87       |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96    | 33886    | 2.180  | ug/l    | 74       |
| 23) Diethyl Ether             | 2.10  | 59    | 24252    | 2.047  | ug/l    | 88       |
| 24) tert-Butyl Alcohol        | 2.84  | 59    | 26322    | 21.376 | ug/l    | 100      |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73    | 89509    | 2.154  | ug/l #  | 85       |
| 26) Bromochloromethane        | 4.55  | 128   | 14636    | 2.132  | ug/l    | 71       |
| 27) Chloroform                | 4.67  | 83    | 53109    | 2.089  | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97    | 48749    | 2.068  | ug/l    | 95       |
| 29) 1,1-Dichloropropene       | 5.13  | 75    | 41134    | 2.010  | ug/l    | 89       |
| 30) Carbon Tetrachloride      | 5.13  | 117   | 44106    | 2.067  | ug/l    | 98       |
| 31) Isopropyl Ether           | 3.58  | 45    | 75946    | 1.925  | ug/l    | 91       |
| 32) Ethyl-t-butyl ether       | 4.08  | 59    | 77348    | 1.956  | ug/l    | 89       |
| 33) Tert-Amyl methyl ether    | 5.58  | 73    | 72150    | 2.018  | ug/l    | 98       |
| 34) Propionitrile             | 4.34  | 54    | 9305     | 9.937  | ug/l #  | 86       |
| 35) Benzene                   | 5.39  | 78    | 116042   | 2.051  | ug/l    | 99       |
| 36) 1,2-Dichloroethane        | 5.41  | 62    | 33704    | 1.969  | ug/l #  | 90       |
| 37) Trichloroethene           | 6.18  | 130   | 36301    | 2.236  | ug/l    | 87       |
| 38) 1,2-Dichloropropane       | 6.43  | 63    | 29764    | 2.022  | ug/l    | 95       |
| 39) Methacrylonitrile         | 4.56  | 41    | 8470     | 1.766  | ug/l #  | 82       |
| 40) Methyl acrylate           | 4.43  | 55    | 12874    | 1.779  | ug/l #  | 84       |
| 41) Tetrahydrofuran           | 4.66  | 42    | 7936     | 3.286  | ug/l #  | 69       |
| 42) 1-Chlorobutane            | 5.06  | 56    | 52491    | 1.915  | ug/l    | 85       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\  
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 Acq On : 08 Feb 2019 17:46  
 Operator : JC/SP  
 Sample : VU0208WBSD01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VU0208WBSD01

Manual Integrations  
 APPROVED

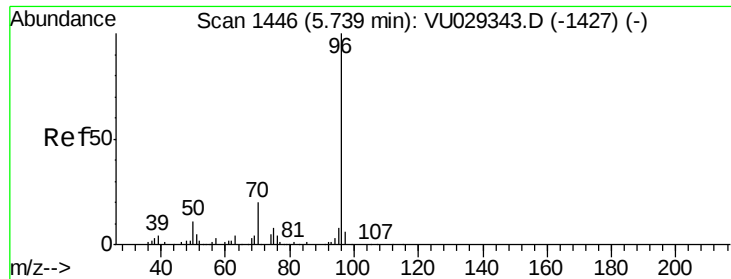
MMDadoda  
 2/18/2019 12:15:56 PM

Quant Time: Feb 09 04:04:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Feb 08 10:52:46 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 16011    | 2.041 | ug/l   | 87       |
| 44) Bromodichloromethane       | 6.76  | 83   | 40235    | 2.013 | ug/l   | 95       |
| 45) 4-Methyl-2-Pentanone       | 7.46  | 43   | 82528    | 8.975 | ug/l # | 88       |
| 46) t-1,4-Dichloro-2-butene    | 10.52 | 75   | 14479m   | 3.232 | ug/l   |          |
| 47) Methyl methacrylate        | 6.63  | 69   | 28502    | 4.130 | ug/l # | 70       |
| 48) Ethyl methacrylate         | 8.02  | 69   | 27753    | 1.874 | ug/l   | 77       |
| 49) Toluene                    | 7.63  | 92   | 74408    | 2.055 | ug/l   | 98       |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 35794    | 1.827 | ug/l   | 95       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 45033    | 1.935 | ug/l # | 87       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 20797    | 2.003 | ug/l   | 92       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 36611    | 2.007 | ug/l   | 100      |
| 54) 2-Hexanone                 | 8.37  | 43   | 56682    | 8.794 | ug/l   | 85       |
| 55) Dibromochloromethane       | 8.48  | 129  | 29670    | 2.010 | ug/l   | 99       |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 23025    | 2.161 | ug/l   | 95       |
| 58) Tetrachloroethene          | 8.22  | 164  | 35180    | 2.328 | ug/l   | 90       |
| 59) Chlorobenzene              | 9.12  | 112  | 88148    | 2.161 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 32517    | 2.158 | ug/l   | 97       |
| 61) Pentachloroethane          | 11.10 | 117  | 23873    | 2.044 | ug/l   | 88       |
| 62) Hexachloroethane           | 12.14 | 117  | 23708    | 1.860 | ug/l   | 91       |
| 63) Ethyl Benzene              | 9.25  | 91   | 146782   | 2.072 | ug/l   | 94       |
| 64) m/p-Xylenes                | 9.37  | 106  | 118510   | 4.305 | ug/l   | 84       |
| 65) o-Xylene                   | 9.78  | 106  | 56890    | 2.105 | ug/l   | 87       |
| 66) Styrene                    | 9.79  | 104  | 94497    | 2.098 | ug/l   | 92       |
| 67) Bromoform                  | 9.96  | 173  | 18636    | 2.030 | ug/l   | 98       |
| 69) Isopropylbenzene           | 10.16 | 105  | 152159   | 2.108 | ug/l   | 95       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 27762    | 2.086 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 19887m   | 2.176 | ug/l   |          |
| 72) Bromobenzene               | 10.45 | 156  | 39473    | 2.256 | ug/l   | 84       |
| 73) n-propylbenzene            | 10.59 | 120  | 44163    | 2.196 | ug/l   | 74       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 37112    | 2.168 | ug/l   | 75       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 126464   | 2.032 | ug/l   | 94       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 38808    | 2.184 | ug/l   | 71       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 130107   | 2.115 | ug/l   | 91       |
| 78) 1,2,4-Trimethylbenzene     | 11.14 | 105  | 129899   | 2.062 | ug/l   | 95       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 169259   | 2.103 | ug/l   | 95       |
| 80) Nitrobenzene               | 12.87 | 77   | 3401m    | 5.735 | ug/l   |          |
| 81) p-Isopropyltoluene         | 11.47 | 119  | 145095   | 2.127 | ug/l   | 93       |
| 82) 1,3-Dichlorobenzene        | 11.41 | 146  | 76025    | 2.215 | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene        | 11.50 | 146  | 76560    | 2.239 | ug/l   | 95       |
| 84) n-Butylbenzene             | 11.89 | 91   | 127814   | 2.041 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 71711    | 2.209 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 4561     | 1.836 | ug/l # | 58       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 49260    | 2.161 | ug/l   | 99       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 30550    | 2.314 | ug/l   | 98       |
| 89) Naphthalene                | 13.74 | 128  | 85693    | 2.216 | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 49995    | 2.399 | ug/l   | 97       |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

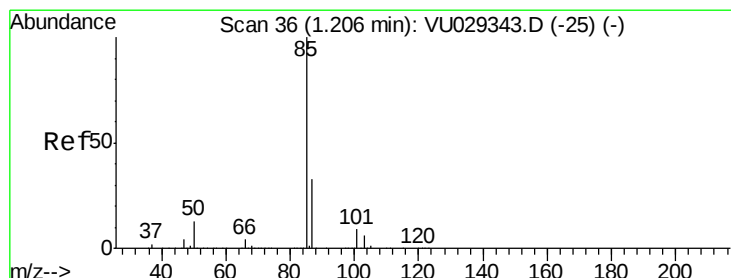
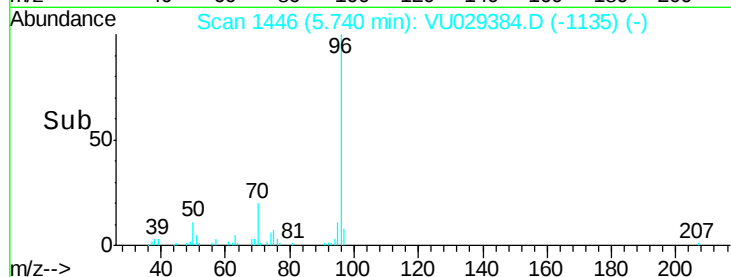
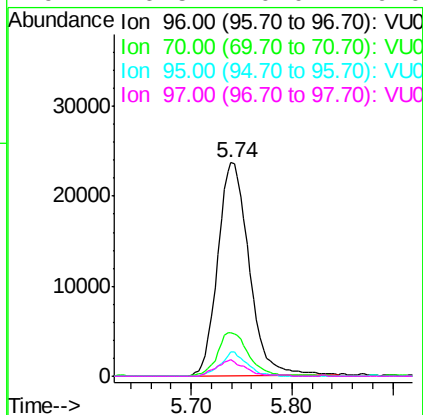
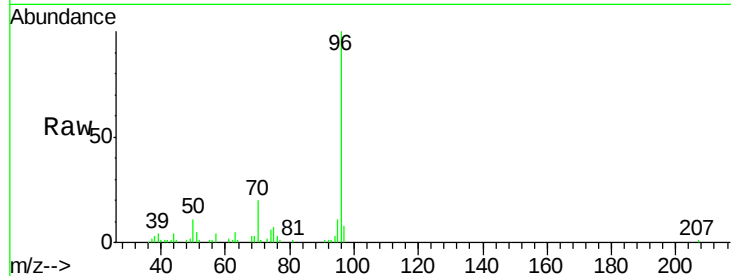
VU0208WBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 51149 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 19.7  | 16.2  | 24.2  |
| 95       | 9.6   | 7.4   | 11.2  |
| 97       | 6.5   | 0.0   | 0.0#  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 1.966 ug/l

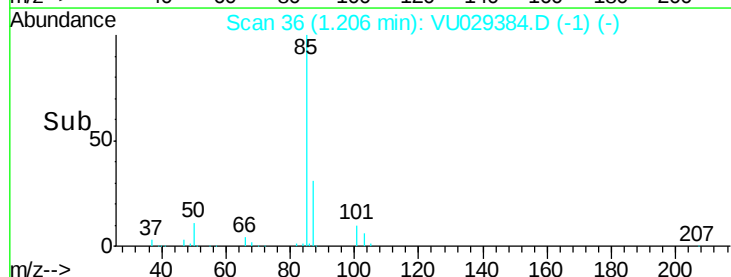
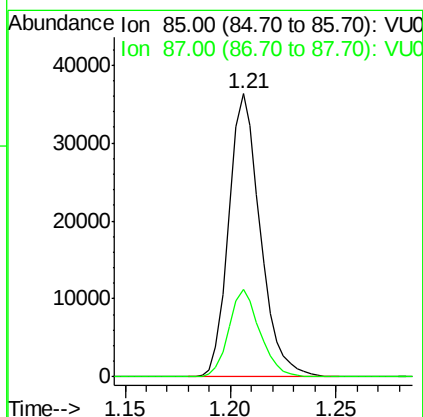
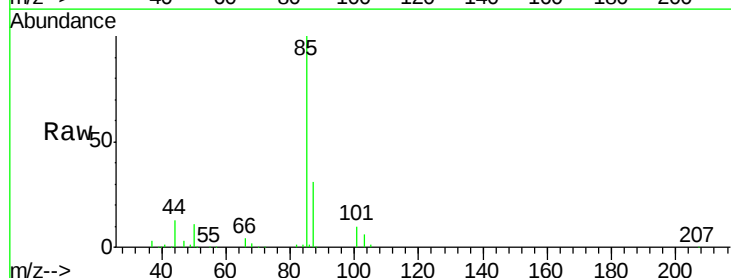
RT: 1.21 min Scan# 36

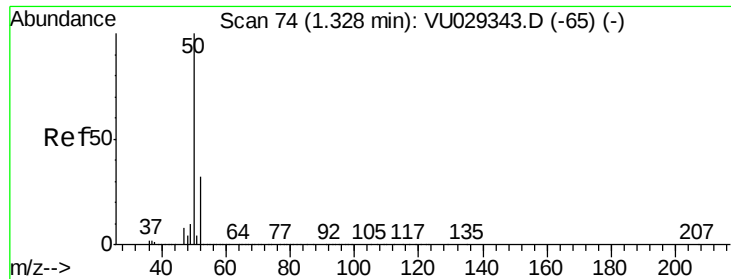
Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 85    | Resp: | 37525 |
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 30.9  | 15.9  | 47.6  |





#3

Chloromethane

Concen: 1.824 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 50 Resp: 31810

Ion Ratio Lower Upper

50 100

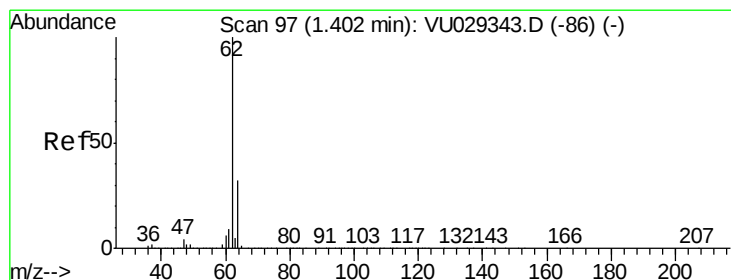
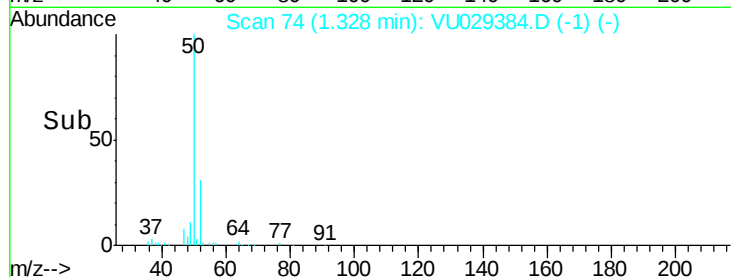
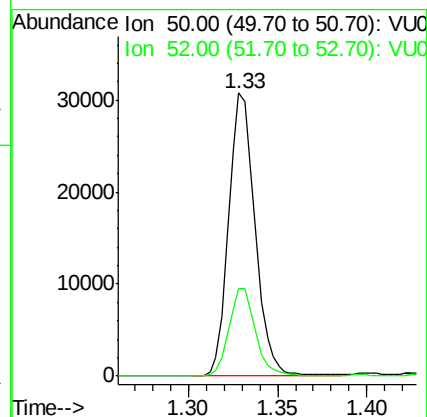
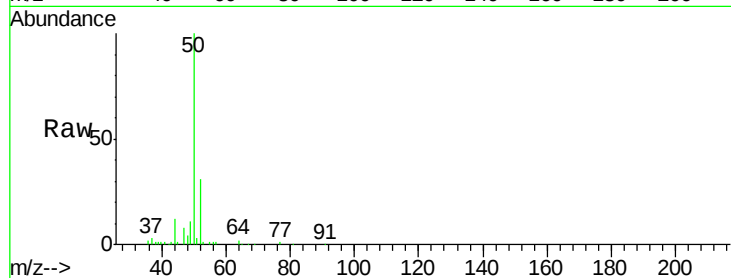
52 30.8 27.3 40.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 1.942 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029384.D

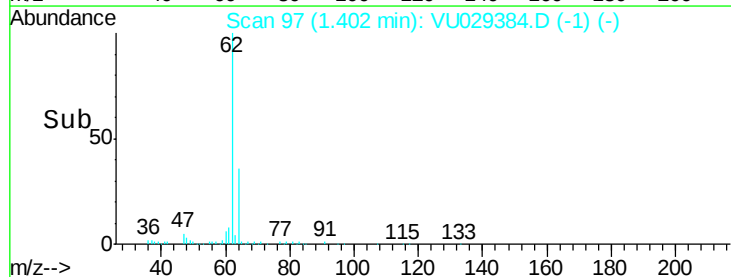
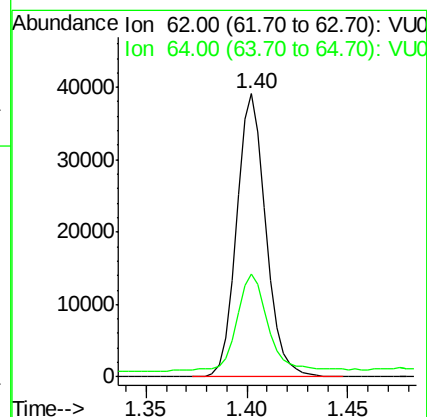
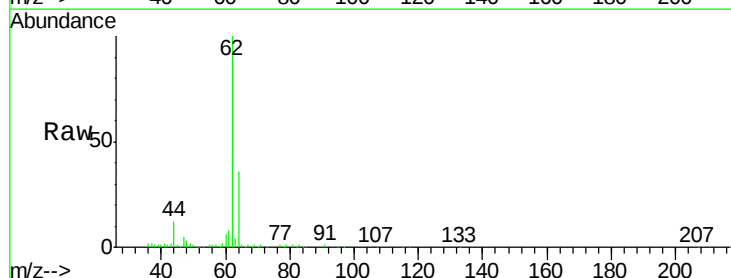
Acq: 08 Feb 2019 17:46

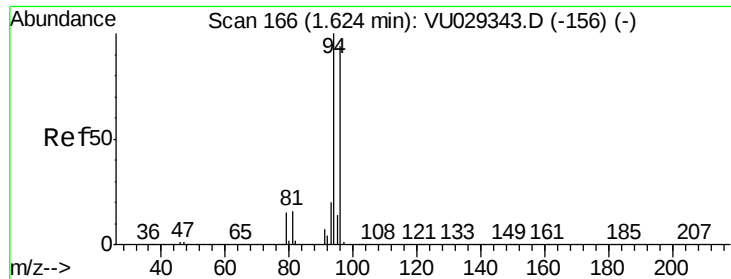
Tgt Ion: 62 Resp: 39705

Ion Ratio Lower Upper

62 100

64 33.7 25.2 37.8





#5

Bromomethane

Concen: 2.428 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 94 Resp: 27617

Ion Ratio Lower Upper

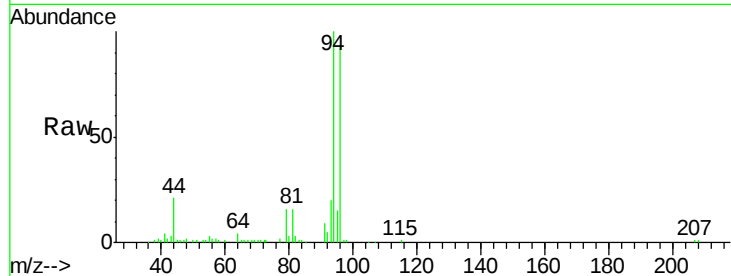
94 100

96 92.6 71.7 107.5

Manual Integrations  
APPROVED

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2/18/2019 12:15:56 PM



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.63

25000

20000

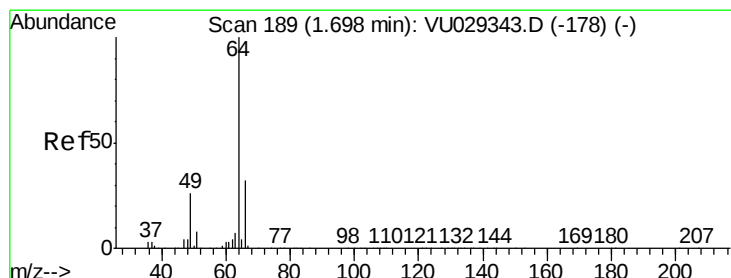
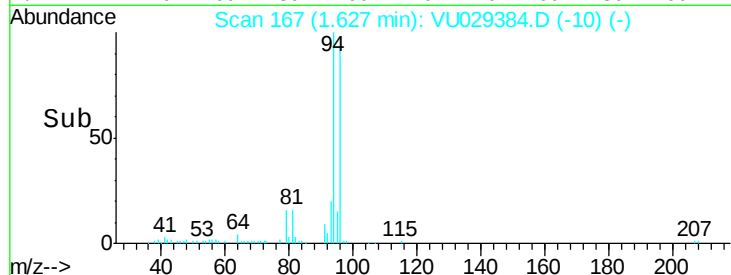
15000

10000

5000

0

Time--> 1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 1.938 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029384.D

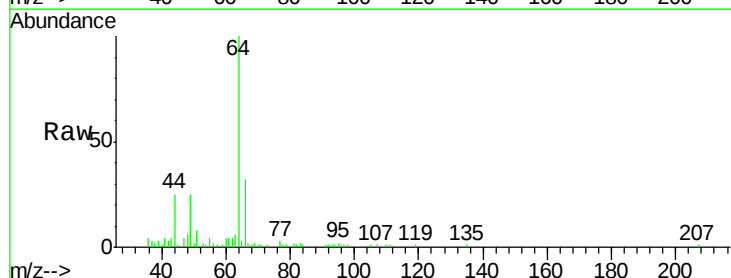
Acq: 08 Feb 2019 17:46

Tgt Ion: 64 Resp: 23151

Ion Ratio Lower Upper

64 100

66 32.2 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.70

20000

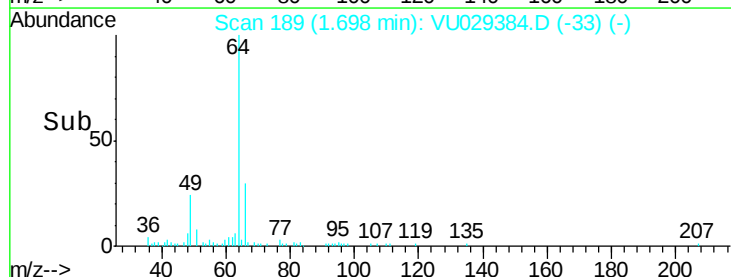
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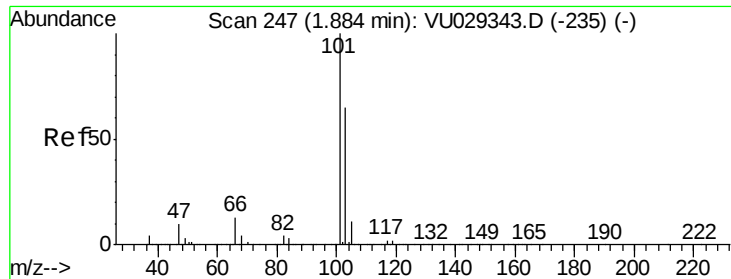
10000

5000

0

Time--> 1.65 1.70 1.75





#7

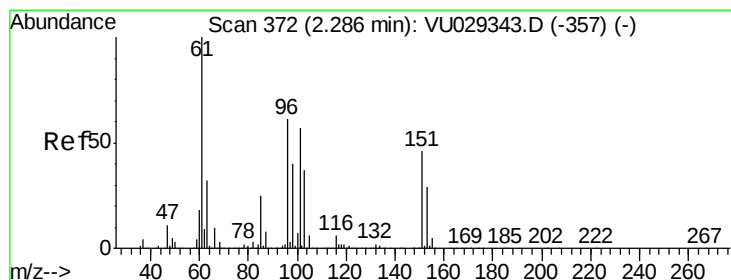
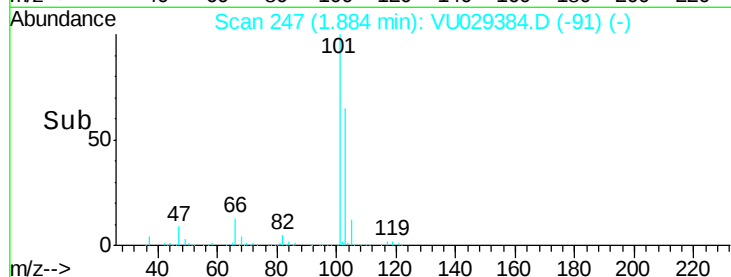
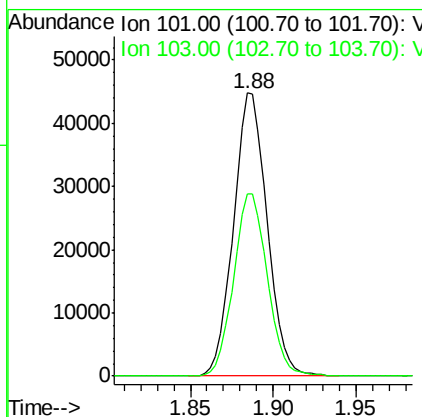
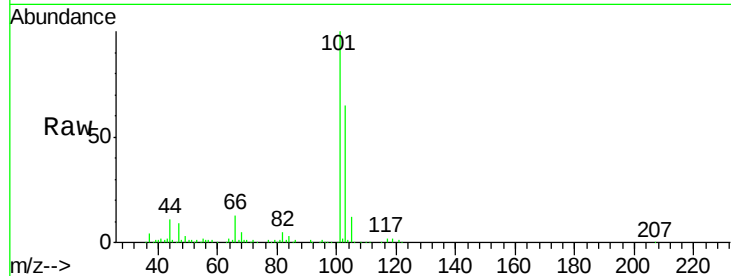
Trichlorofluoromethane  
Concen: 2.215 ug/l  
RT: 1.88 min Scan# 247  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.6  | 53.9  | 80.9  |

Manual Integrations  
APPROVED

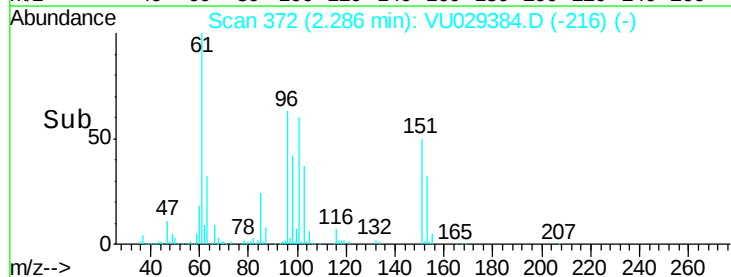
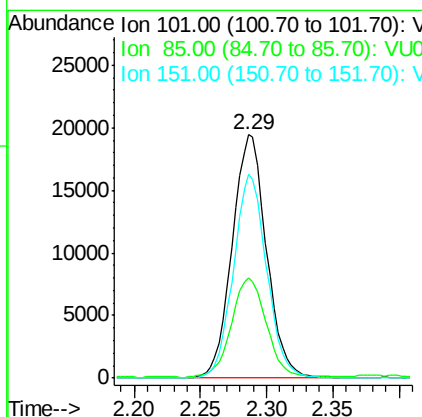
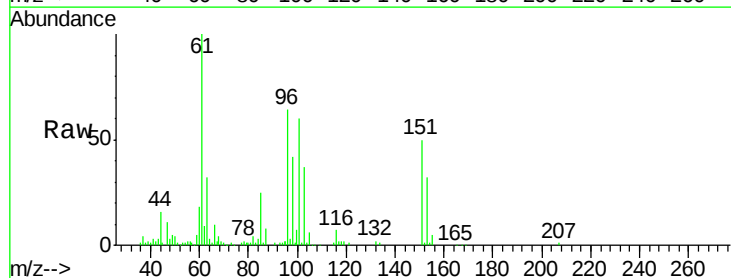
MMDadoda  
2/18/2019 12:15:56 PM

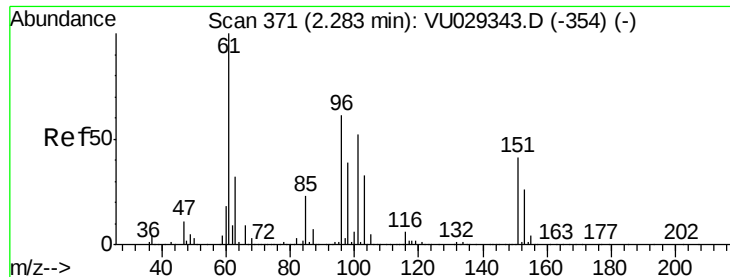


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 2.316 ug/l  
RT: 2.29 min Scan# 372  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 41.7  | 40.3  | 60.5  |
| 151     | 81.1  | 58.1  | 87.1  |





#9

1,1-Dichloroethene

Concen: 2.211 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

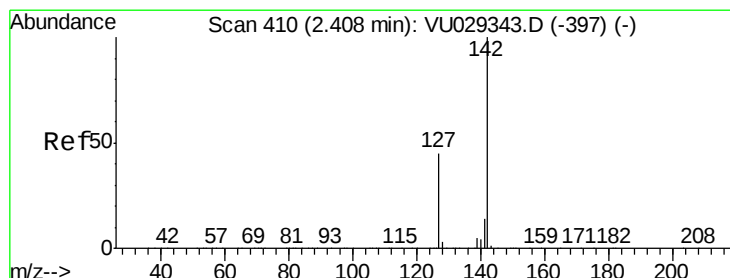
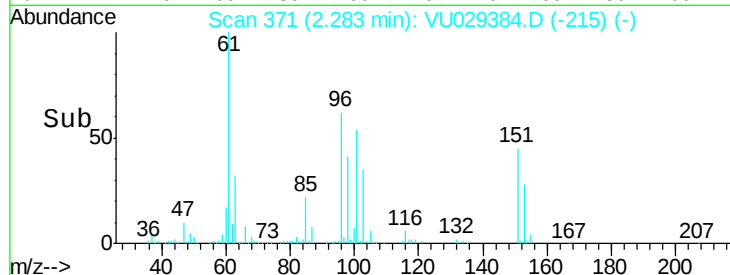
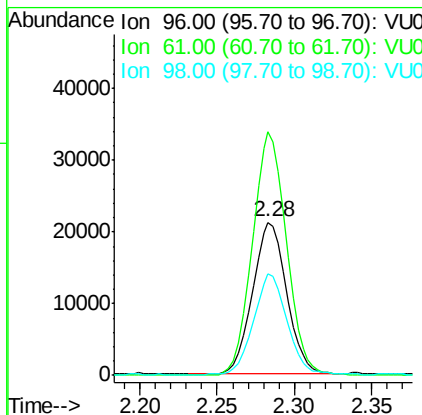
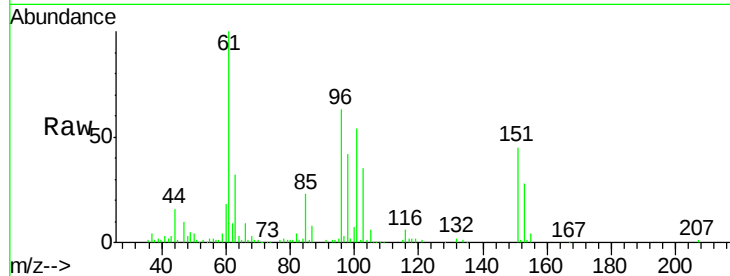
VU0208WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 96    | Resp: | 32620 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 160.6 | 0.0   | 641.4 |
| 98        | 67.2  | 0.0   | 122.6 |

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#10

Iodomethane

Concen: 1.583 ug/l

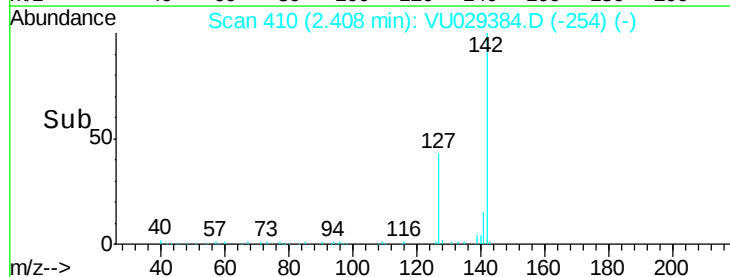
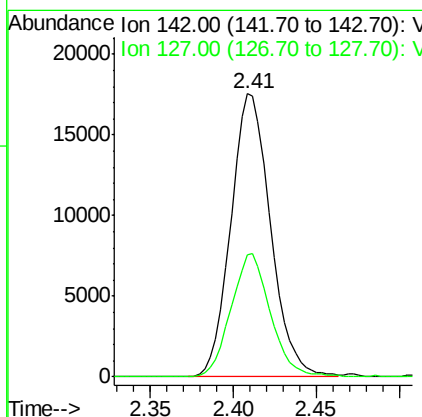
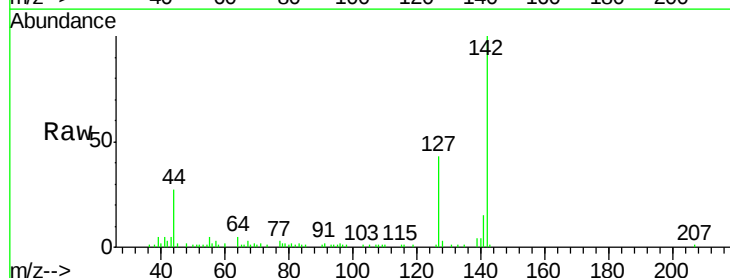
RT: 2.41 min Scan# 410

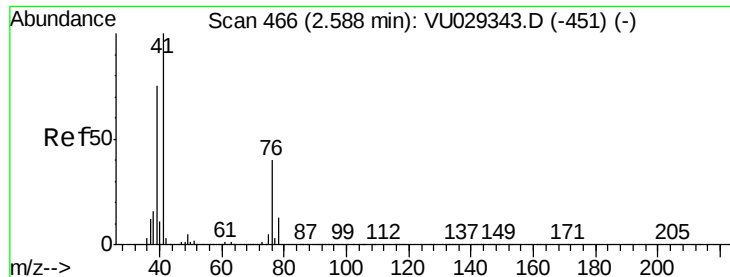
Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 29217 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 43.1  | 47.6  | 71.4# |





#11

Allvl Chloride

Concen: 1.930 ug/l

RT: 2.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 41 Resp: 47762

Ion Ratio Lower Upper

41 100

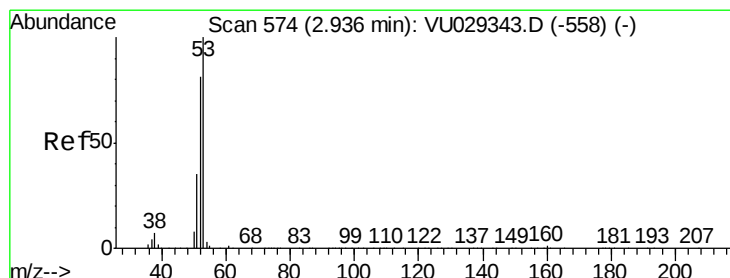
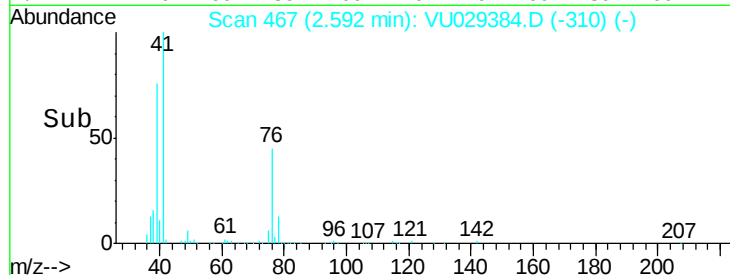
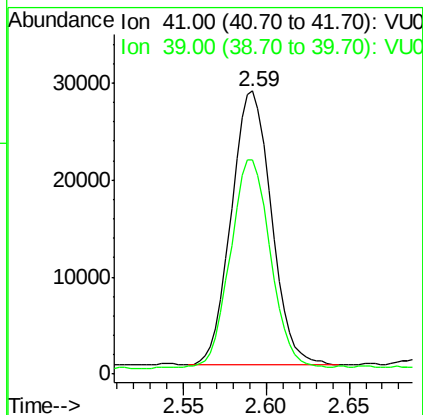
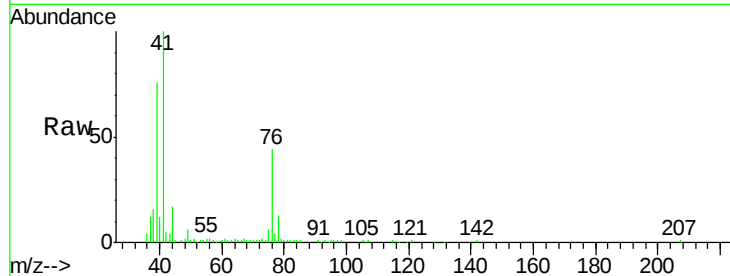
39 75.7 67.2 100.8

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#12

Acrylonitrile

Concen: 4.301 ug/l

RT: 2.94 min Scan# 575

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

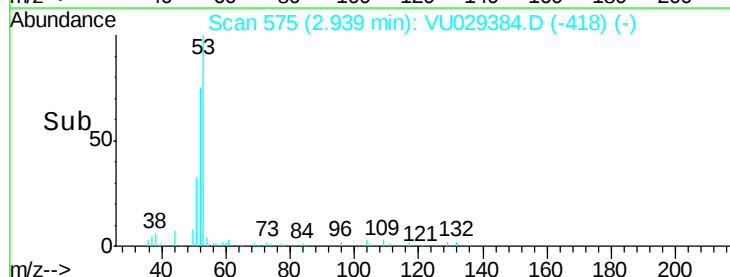
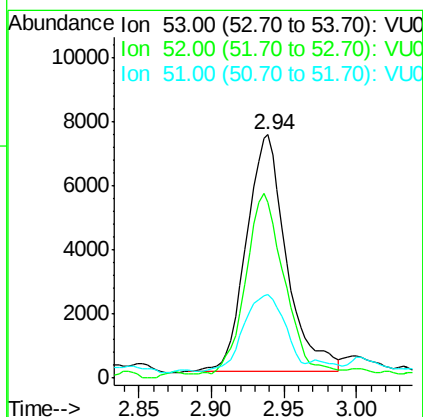
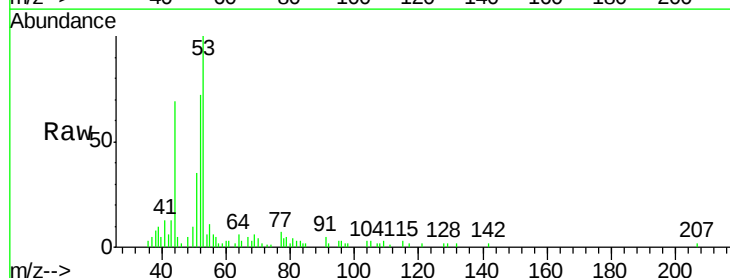
Tgt Ion: 53 Resp: 14225

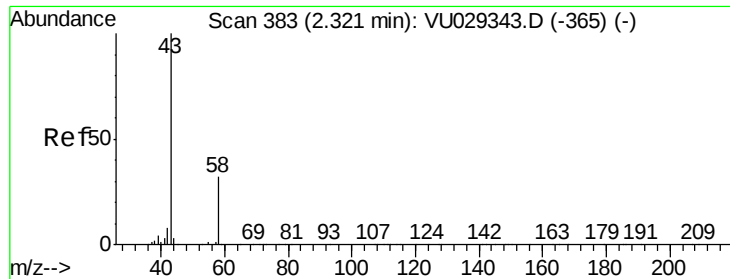
Ion Ratio Lower Upper

53 100

52 75.2 67.6 101.4

51 33.4 31.0 46.4





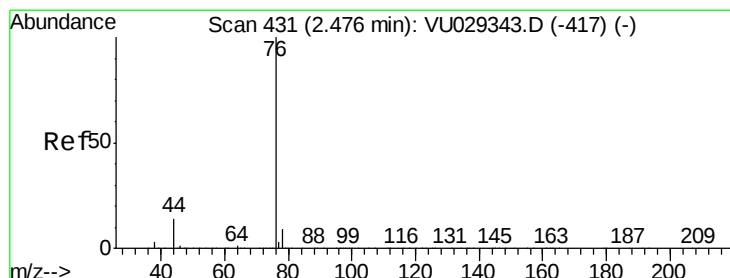
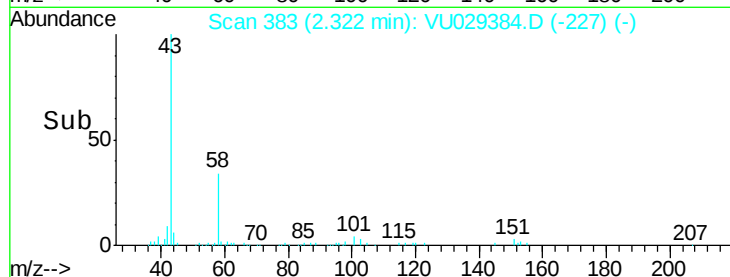
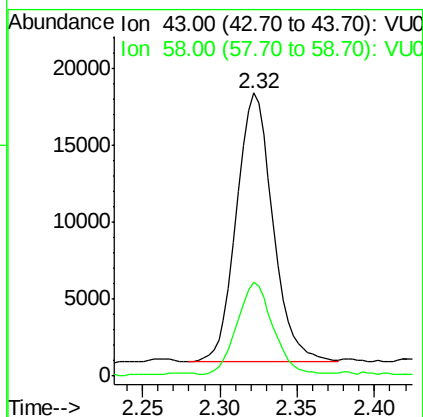
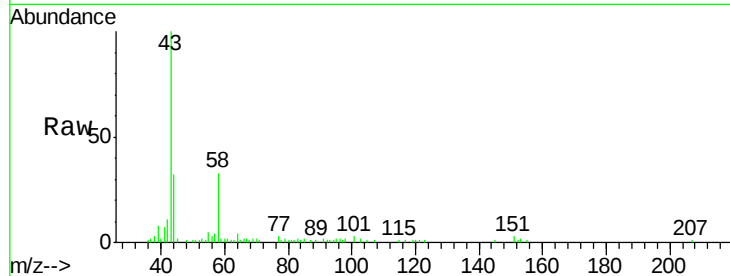
#13  
Acetone  
Concen: 8.964 ug/l  
RT: 2.32 min Scan# 383  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

Tot Ion: 43 Resp: 28569  
Ion Ratio Lower Upper  
43 100  
58 34.1 19.2 28.8#

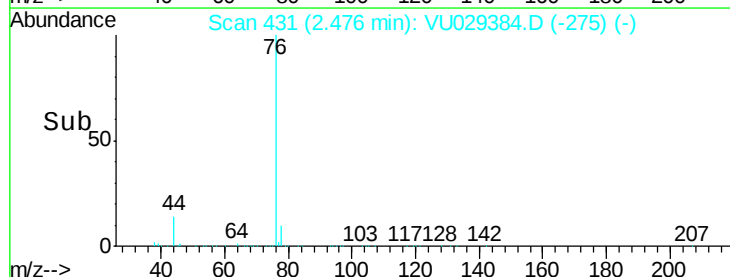
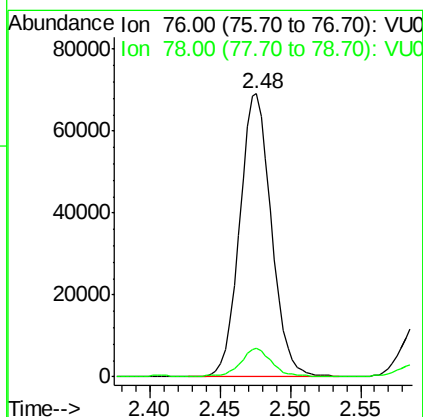
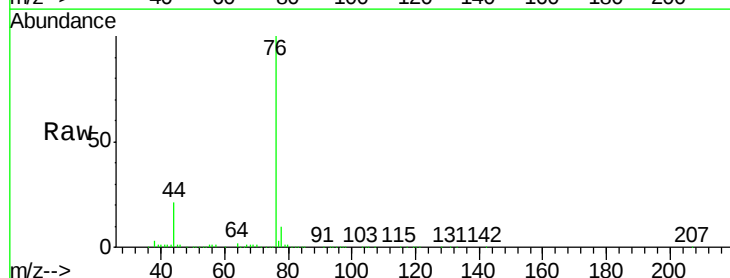
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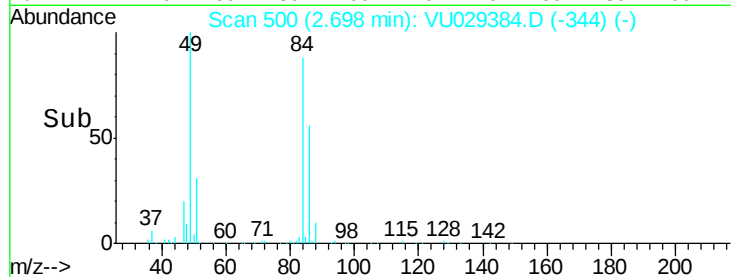
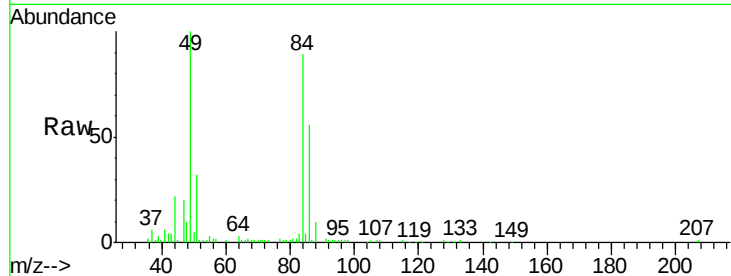
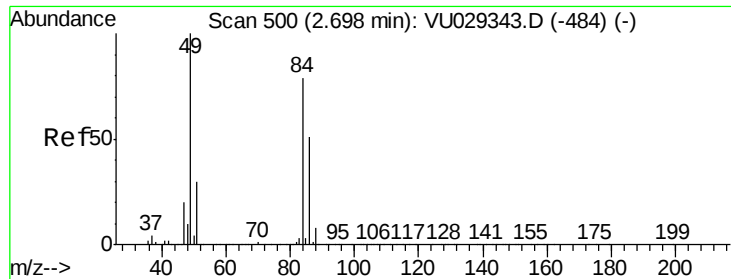
MMDadoda  
2/18/2019 12:15:56 PM



#14  
Carbon Disulfide  
Concen: 2.090 ug/l  
RT: 2.48 min Scan# 431  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Tgt Ion: 76 Resp: 108878  
Ion Ratio Lower Upper  
76 100  
78 9.7 7.1 10.7





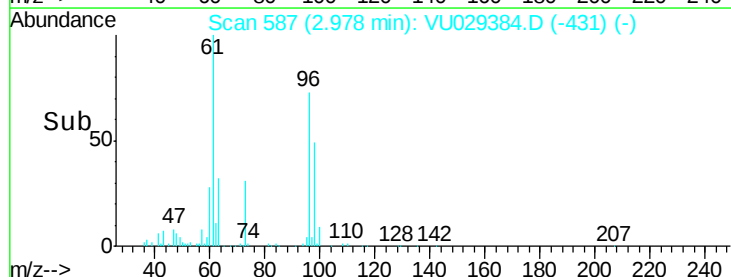
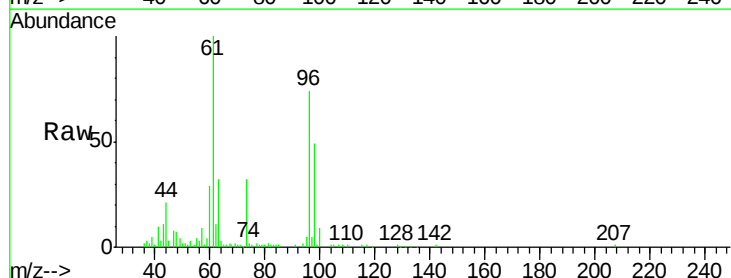
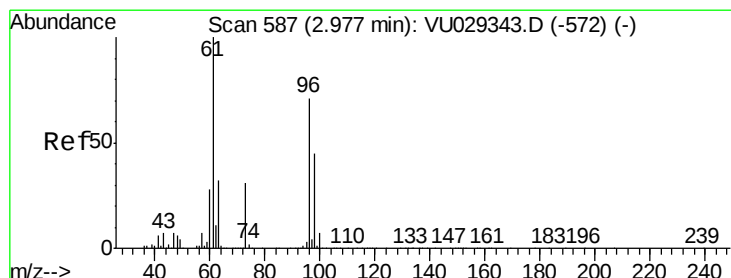
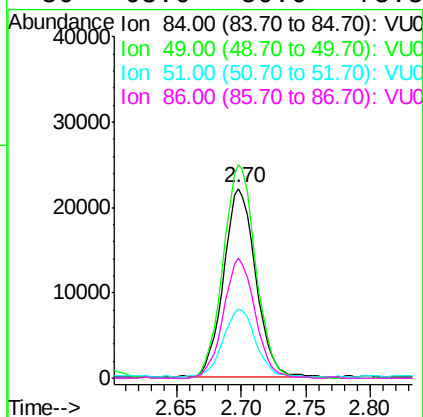
#15  
Methvlene Chloride  
Concen: 2.129 ug/l  
RT: 2.70 min Scan# 500  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 113.2 | 127.0 | 190.6# |
| 51      | 35.5  | 0.0   | 93.4   |
| 86      | 63.6  | 50.6  | 75.8   |

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

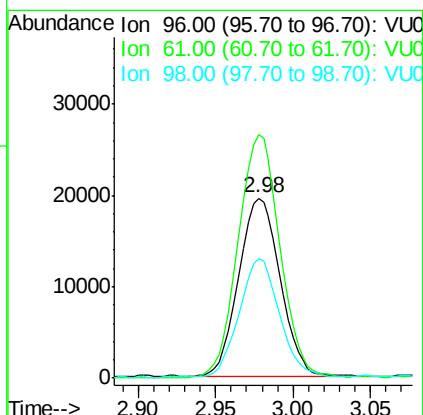
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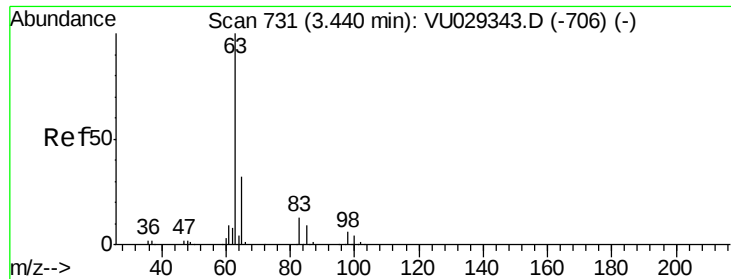
MMDadoda  
2/18/2019 12:15:56 PM



#16  
trans-1,2-Dichloroethene  
Concen: 2.221 ug/l  
RT: 2.98 min Scan# 587  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 136.3 | 140.6 | 210.8# |
| 98      | 66.4  | 49.3  | 73.9   |





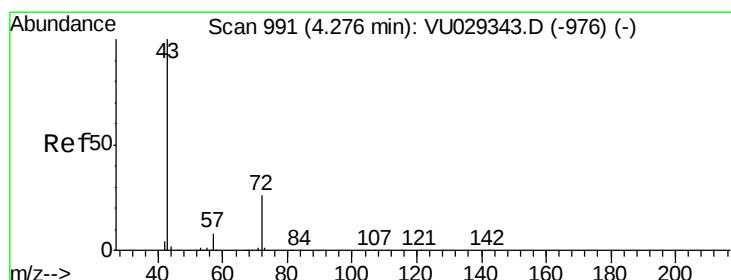
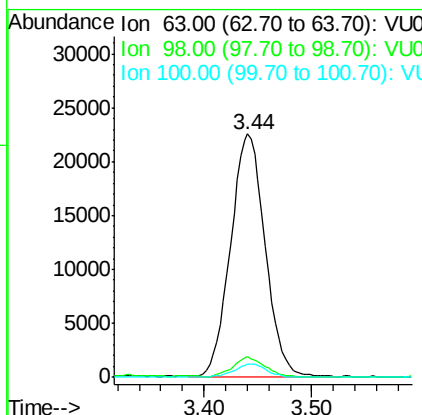
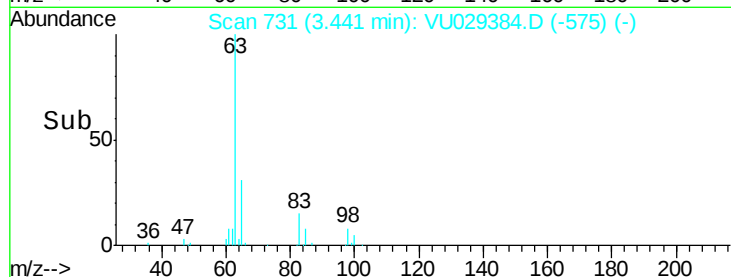
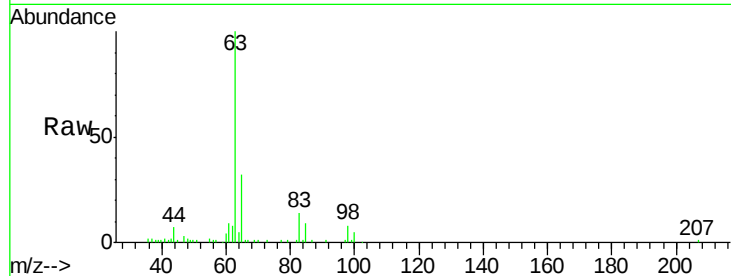
#17  
 1,1-Dichloroethane  
 Concen: 1.933 ug/l  
 RT: 3.44 min Scan# 731  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 63      | 100   |      |       |       |
| 98      | 8.4   | 2.9  | 8.8   |       |
| 100     | 5.2   | 1.7  | 5.1#  |       |

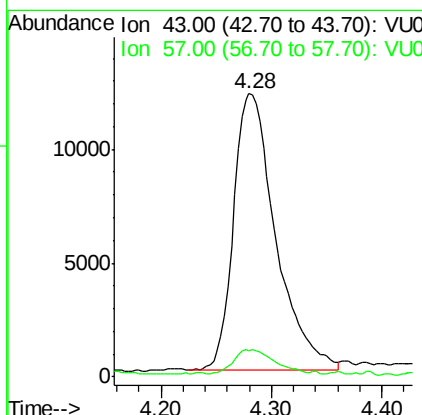
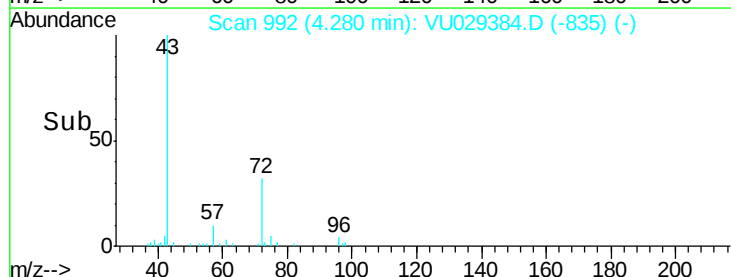
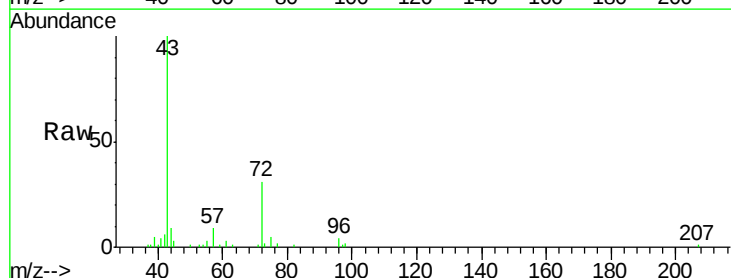
Manual Integrations  
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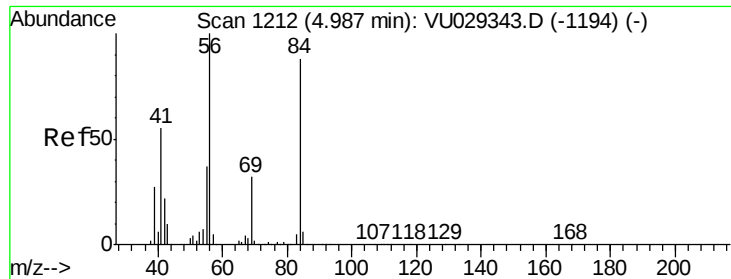
MMDadoda  
 2/18/2019 12:15:56 PM



#18  
 2-Butanone  
 Concen: 9.086 ug/l  
 RT: 4.28 min Scan# 992  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   |      |       |       |
| 57      | 8.5   | 0.0  | 15.8  |       |





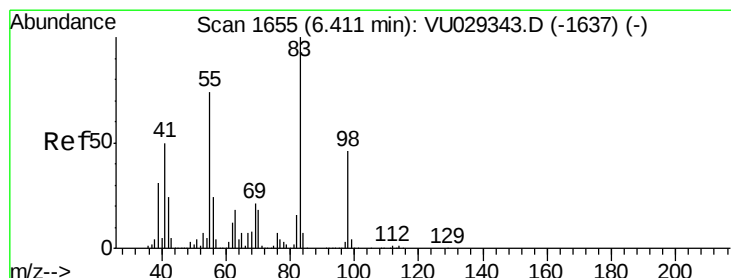
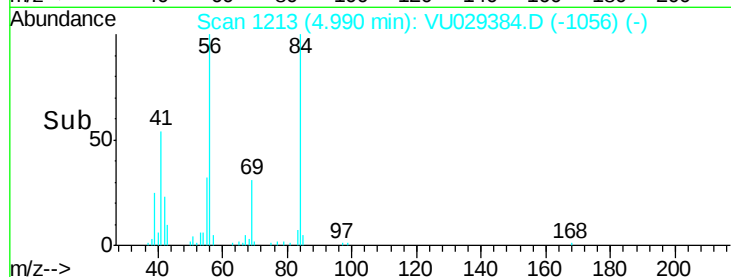
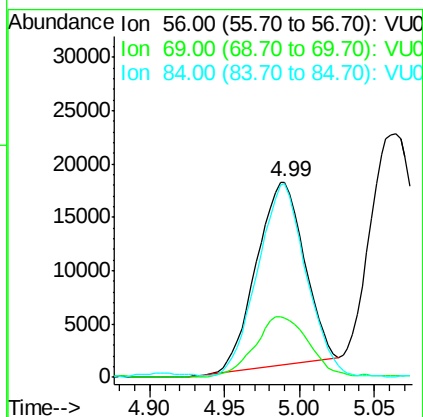
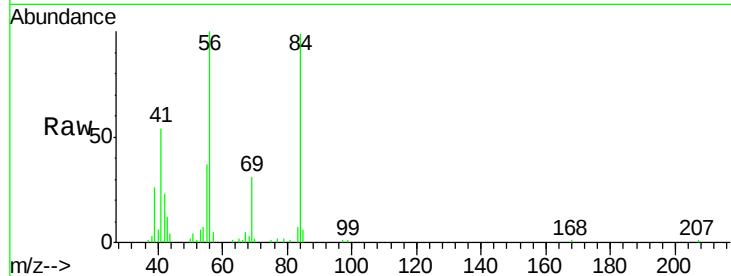
#19  
Cyclohexane  
Concen: 1.570 ug/l  
RT: 4.99 min Scan# 1213  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 36.3  | 26.8  | 40.2   |
| 84      | 107.4 | 71.5  | 107.3# |

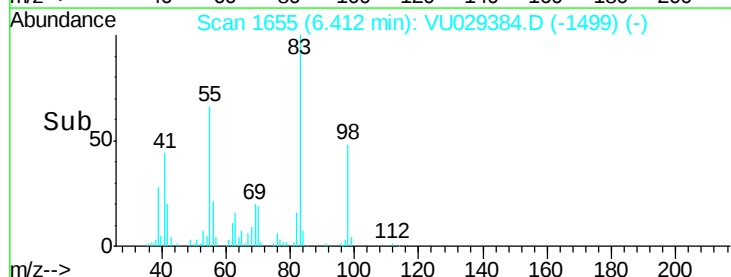
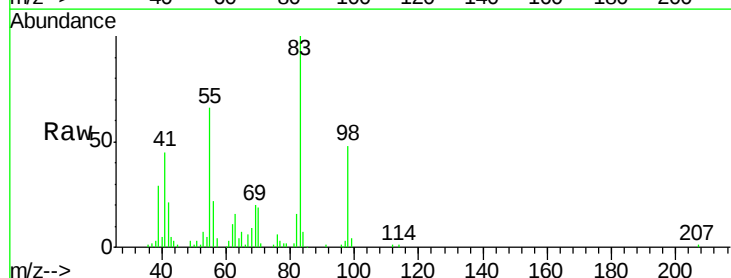
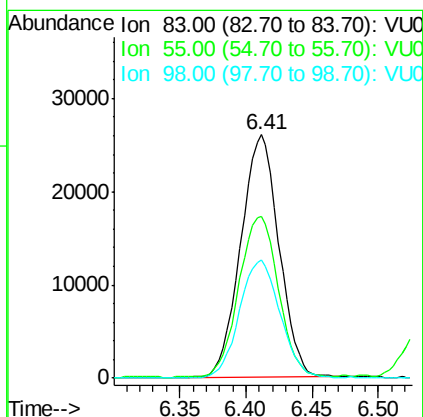
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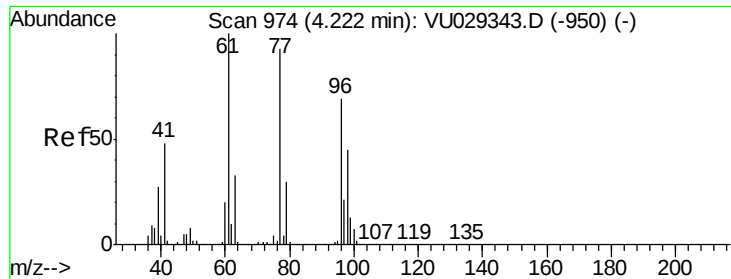
MMDadoda  
2/18/2019 12:15:56 PM



#20  
Methylcyclohexane  
Concen: 2.058 ug/l  
RT: 6.41 min Scan# 1655  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 67.7  | 72.4  | 108.6# |
| 98      | 51.6  | 36.6  | 54.8   |





#21

2,2-Dichloropropane

Concen: 1.949 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 77 Resp: 47177

Ion Ratio Lower Upper

77 100

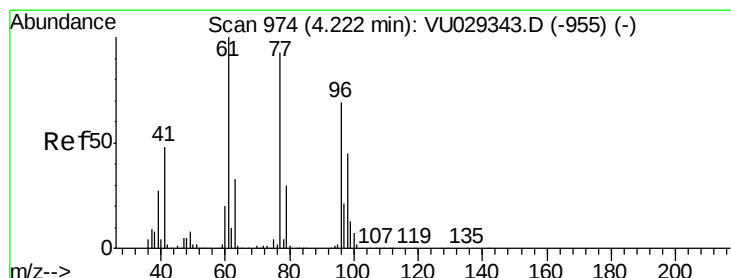
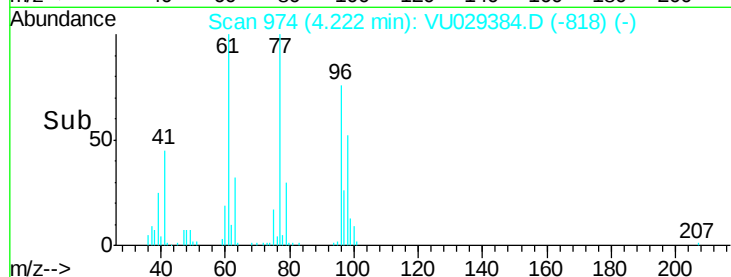
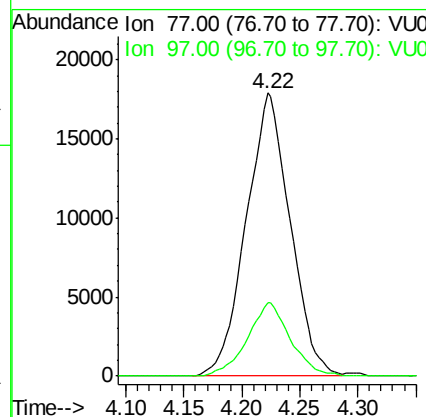
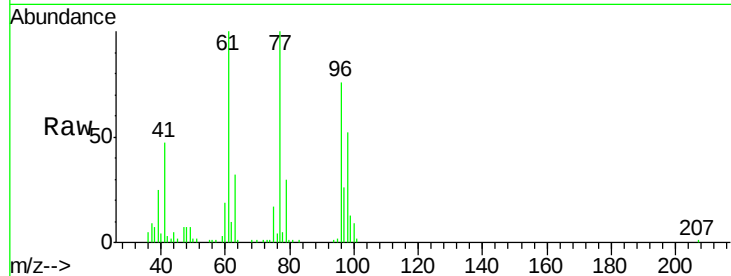
97 25.3 15.6 23.4#

Manual Integrations

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2/18/2019 12:15:56 PM



#22

cis-1,2-Dichloroethene

Concen: 2.180 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

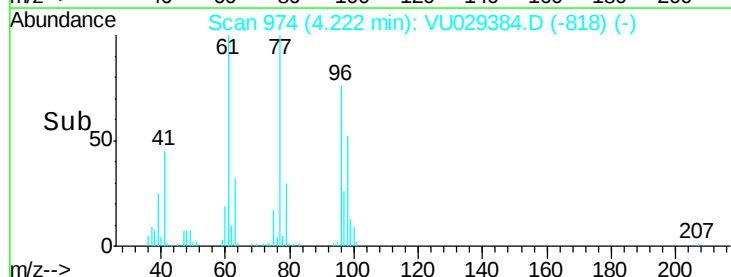
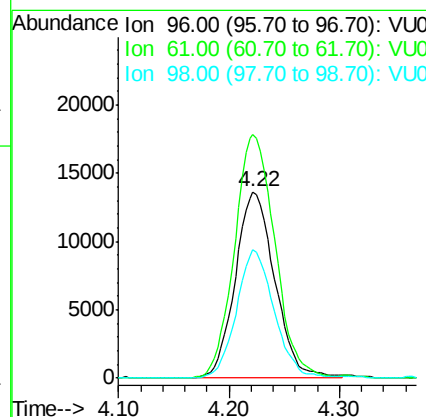
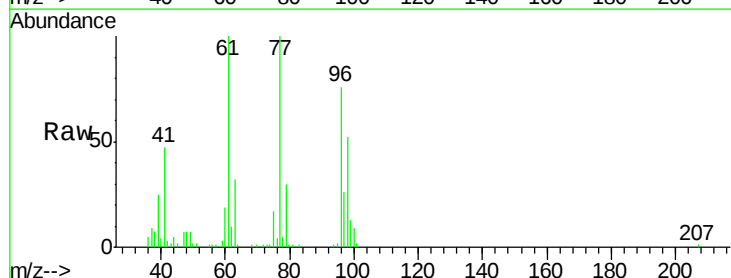
Tgt Ion: 96 Resp: 33886

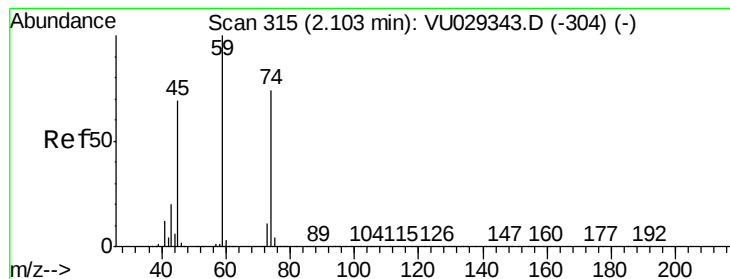
Ion Ratio Lower Upper

96 100

61 133.9 0.0 460.0

98 65.5 32.6 97.7





#23

Diethyl Ether

Concen: 2.047 ug/l

RT: 2.10 min Scan# 315

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

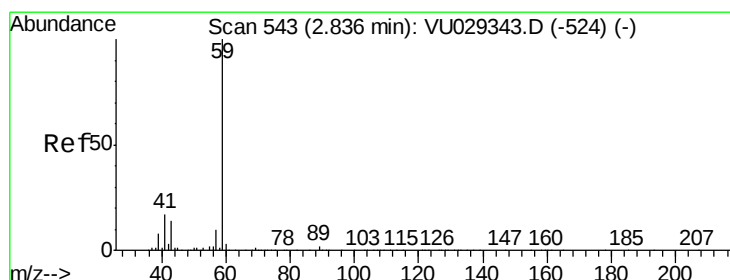
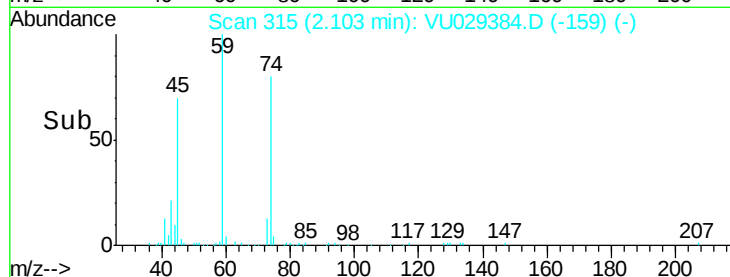
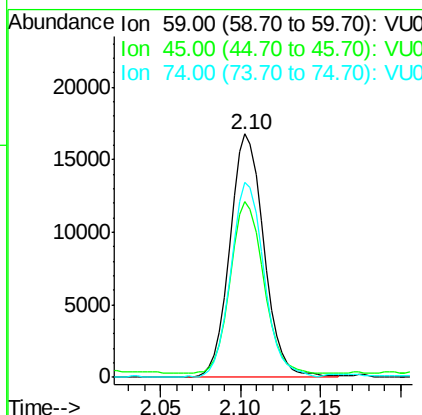
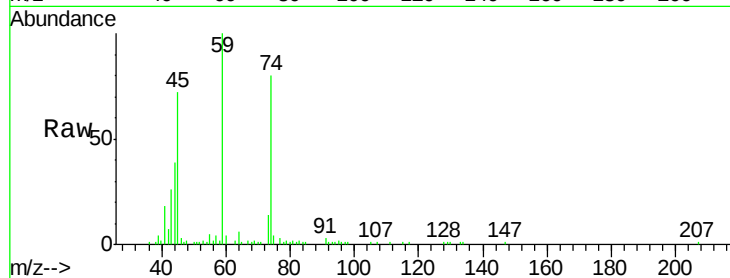
VU0208WBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 59    | Resp: | 24252 |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 45       | 69.1  | 64.2  | 96.4  |
| 74       | 78.5  | 55.3  | 82.9  |

Manual Integrations  
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#24

tert-Butyl Alcohol

Concen: 21.376 ug/l

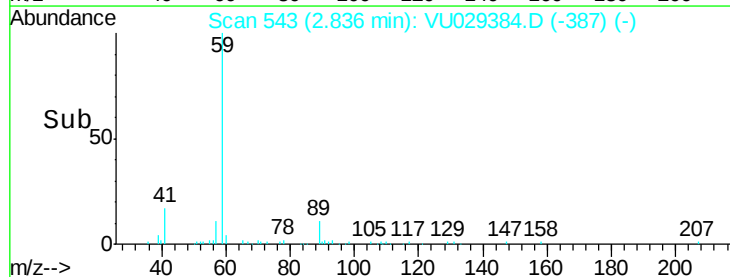
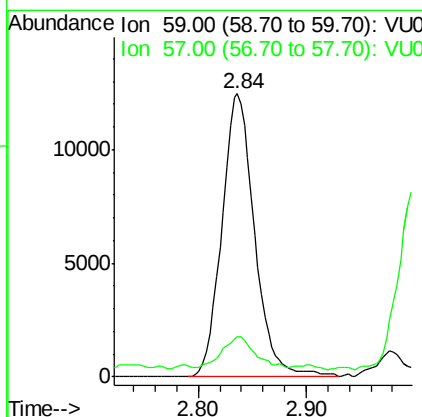
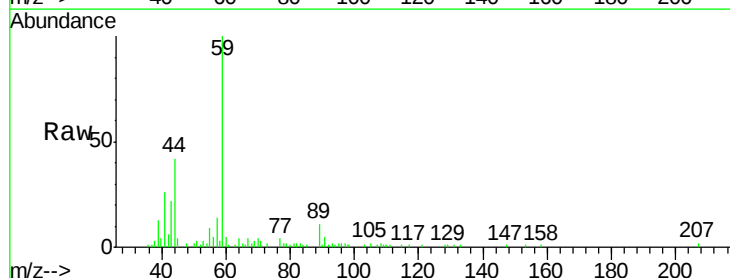
RT: 2.84 min Scan# 543

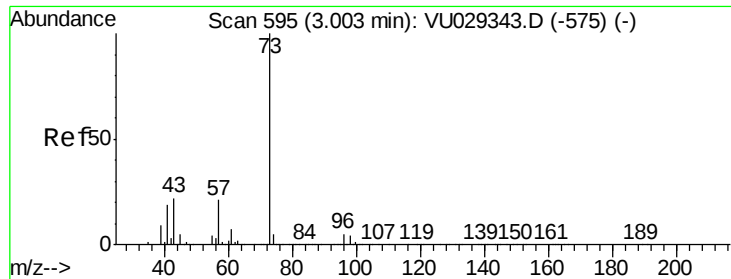
Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 26322 |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 11.0  | 8.8   | 13.2  |





#25

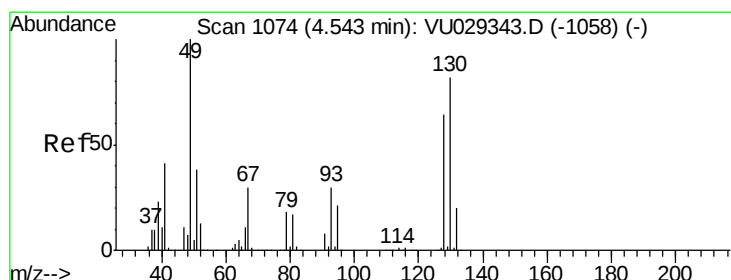
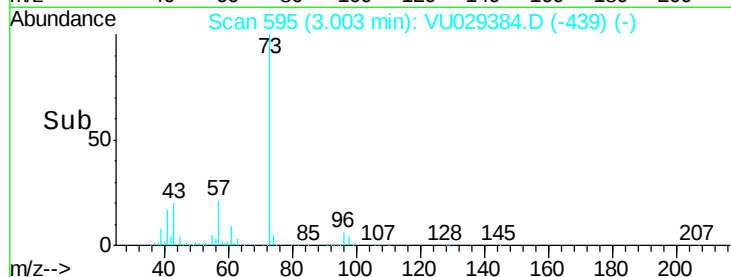
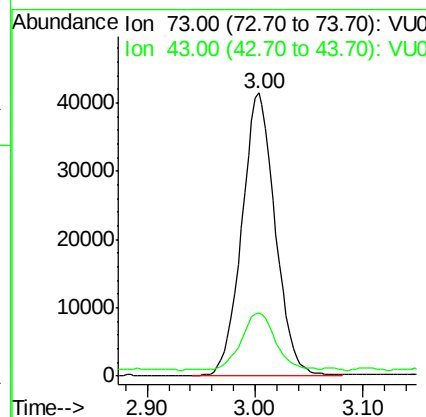
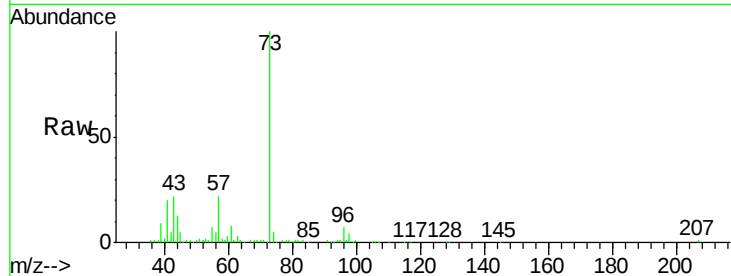
Methyl tert-Butyl Ether  
 Concen: 2.154 ug/l  
 RT: 3.00 min Scan# 595  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion   | 73    | Resp  | 89509 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 73        | 100   |       |       |
| 43        | 19.6  | 22.1  | 33.1# |

Manual Integrations  
 APPROVED

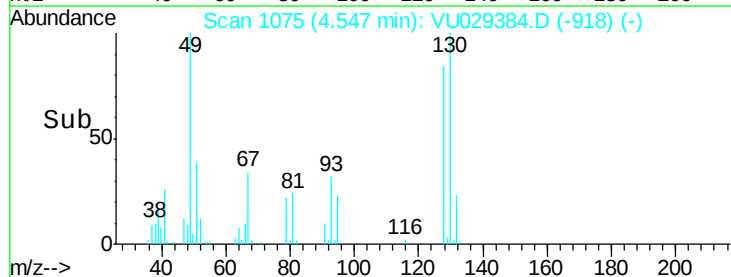
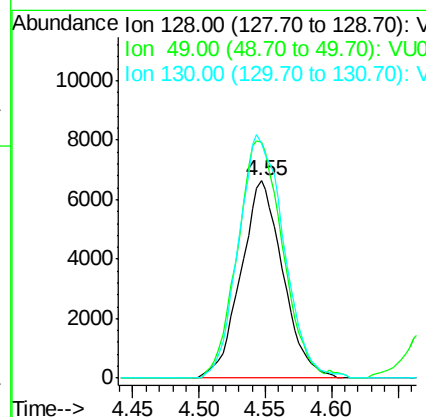
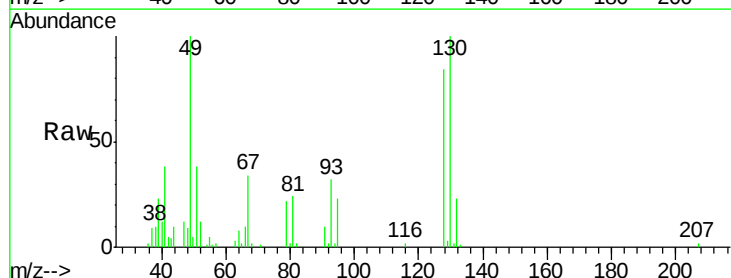
MMDadoda  
 2/18/2019 12:15:56 PM

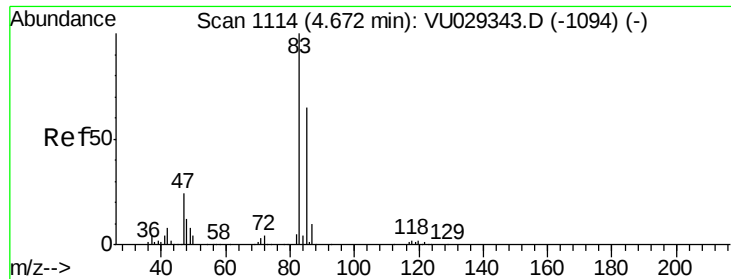


#26

Bromochloromethane  
 Concen: 2.132 ug/l  
 RT: 4.55 min Scan# 1075  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion   | 128   | Resp  | 14636 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 49        | 129.0 | 0.0   | 401.6 |
| 130       | 132.8 | 108.0 | 162.0 |





#27

Chloroform

Concen: 2.089 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 83 Resp: 53109

Ion Ratio Lower Upper

83 100

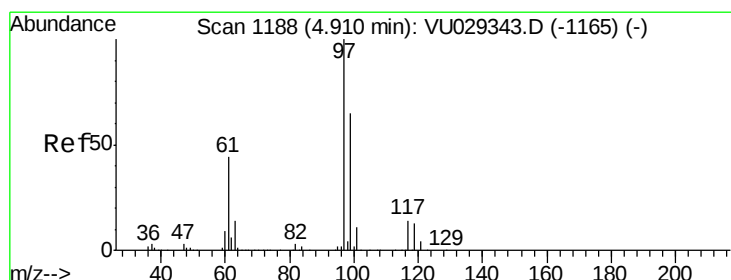
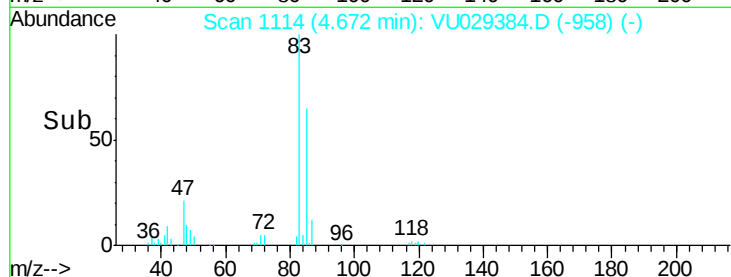
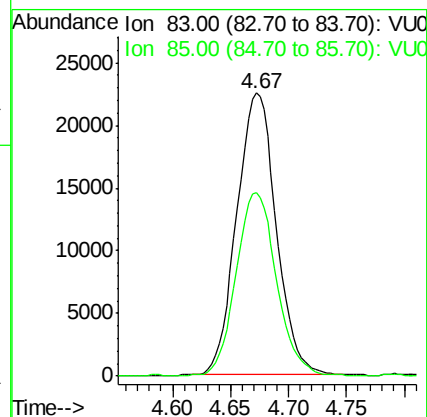
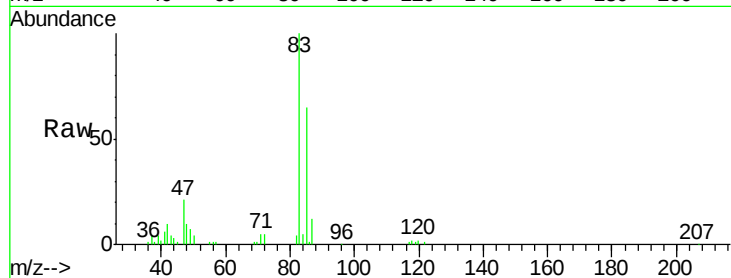
85 64.7 0.0 126.6

Manual Integrations

APPROVED

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#28

1,1,1-Trichloroethane

Concen: 2.068 ug/l

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

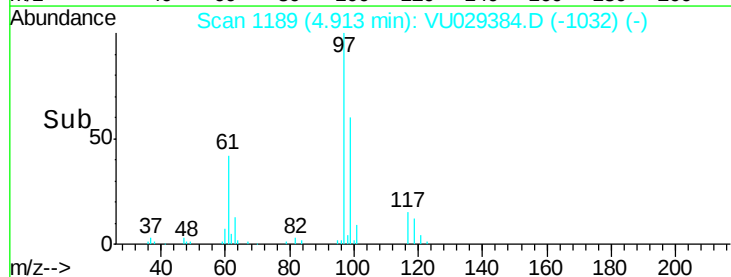
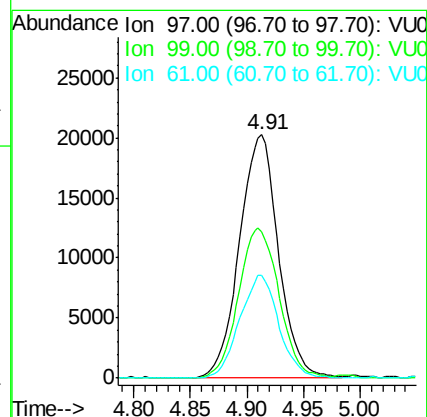
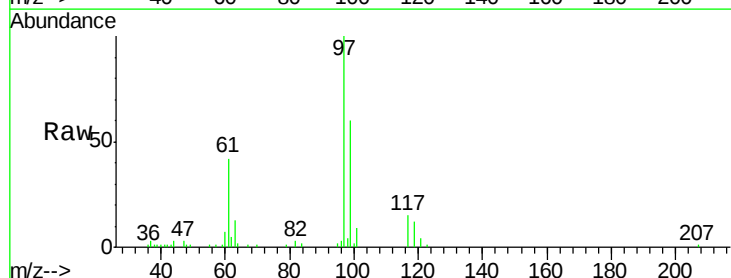
Tgt Ion: 97 Resp: 48749

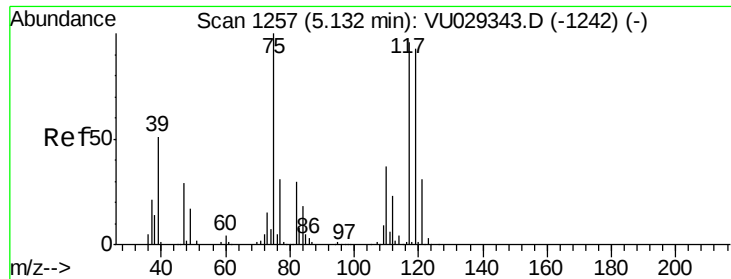
Ion Ratio Lower Upper

97 100

99 64.0 32.4 97.2

61 42.2 24.4 73.2





#29

1,1-Dichloropropene

Concen: 2.010 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

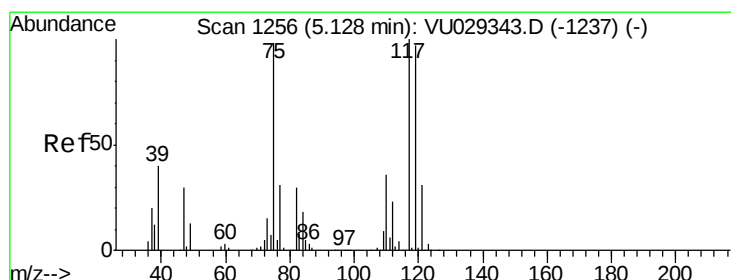
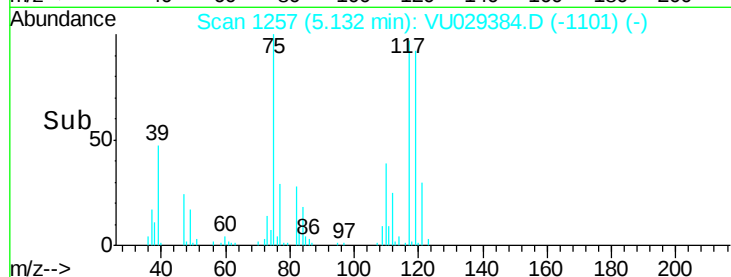
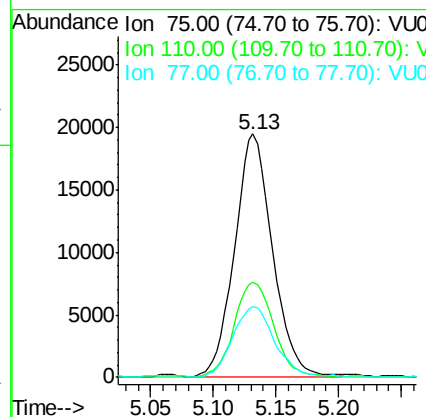
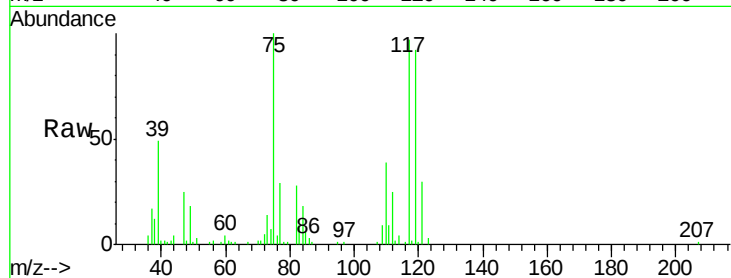
VU0208WBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 41134 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 40.6  | 15.4  | 46.2  |
| 77       | 32.2  | 24.1  | 36.1  |

Manual Integrations  
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#30

Carbon Tetrachloride

Concen: 2.067 ug/l

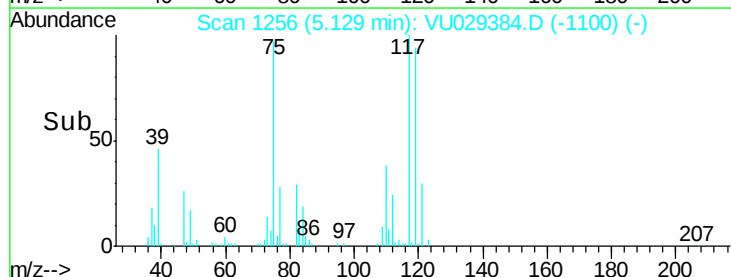
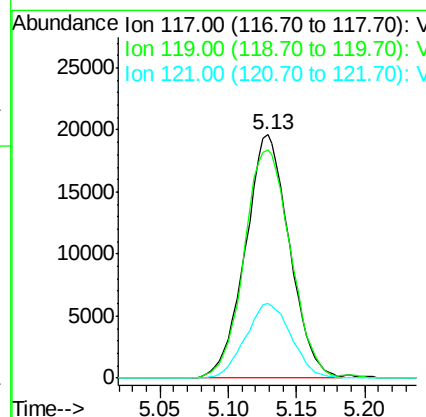
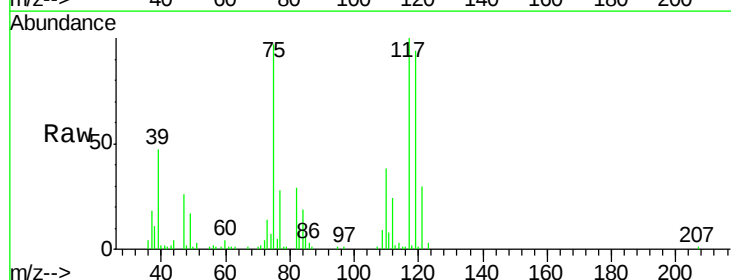
RT: 5.13 min Scan# 1256

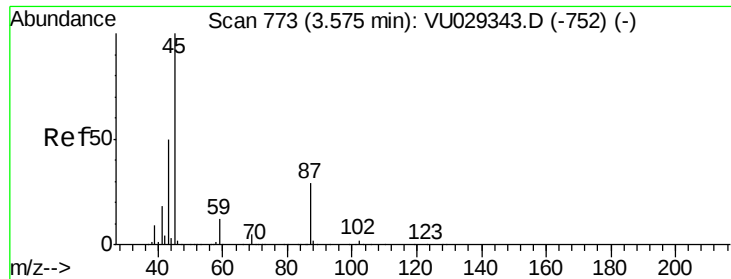
Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 44106 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 93.9  | 76.8  | 115.2 |
| 121      | 30.5  | 24.4  | 36.6  |





#31

Isopropyl Ether

Concen: 1.925 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 45 Resp: 75946

Ion Ratio Lower Upper

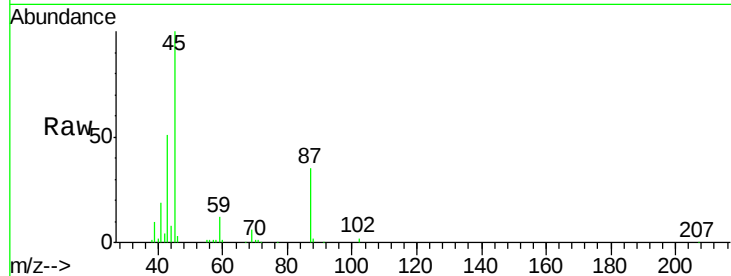
45 100

43 50.0 28.4 85.3

Manual Integrations  
APPROVED

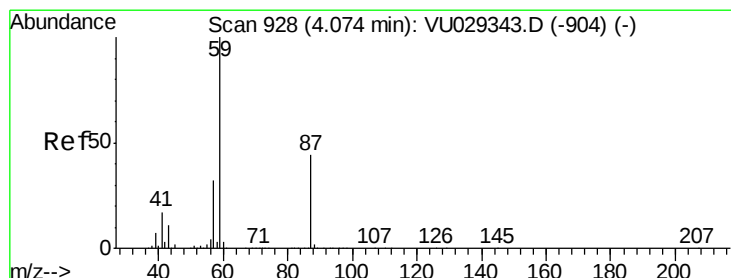
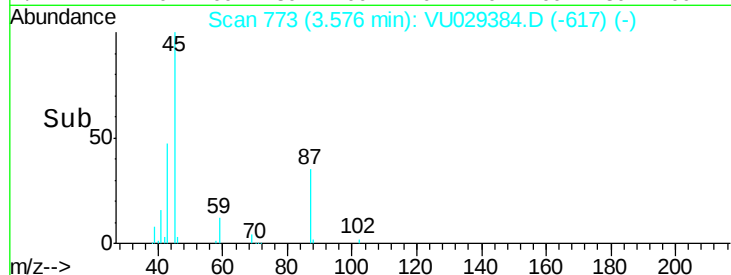
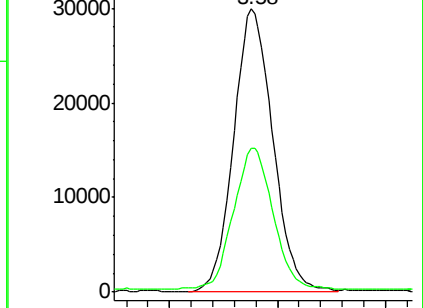
MMDadoda

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Abundance Ion 45.00 (44.70 to 45.70): VU029384.D (-752) (-)

Ion 43.00 (42.70 to 43.70): VU029384.D (-752) (-)



#32

Ethyl-t-butyl ether

Concen: 1.956 ug/l

RT: 4.08 min Scan# 929

Delta R.T. 0.00 min

Lab File: VU029384.D

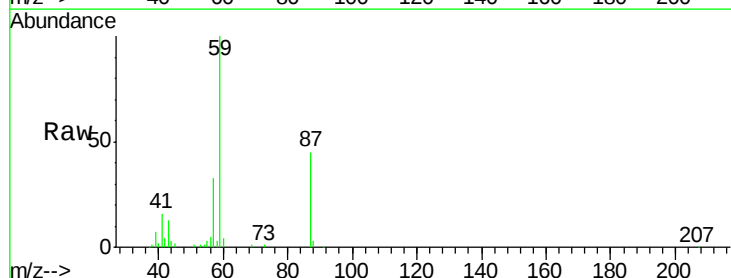
Acq: 08 Feb 2019 17:46

Tgt Ion: 59 Resp: 77348

Ion Ratio Lower Upper

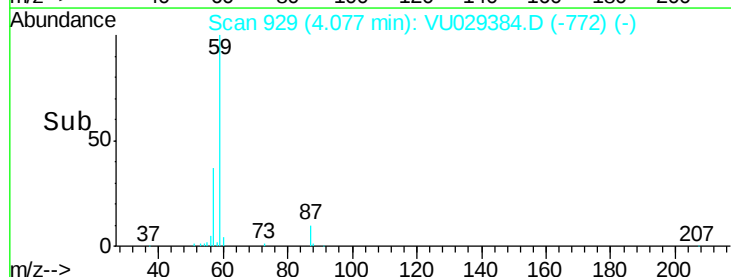
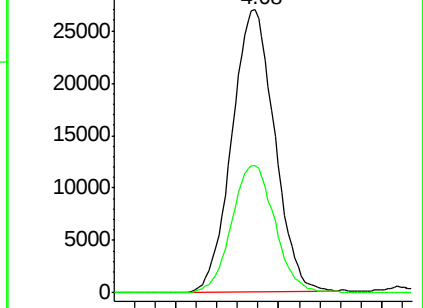
59 100

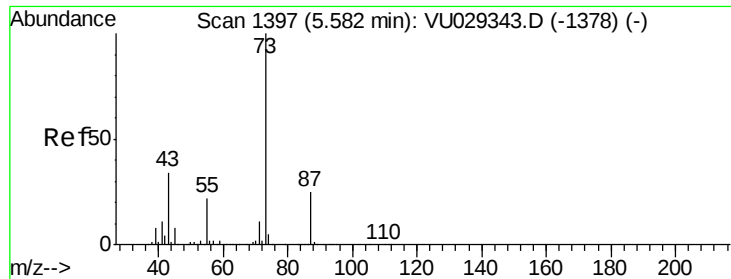
87 45.9 31.1 46.7



Abundance Ion 59.00 (58.70 to 59.70): VU029384.D (-772) (-)

Ion 87.00 (86.70 to 87.70): VU029384.D (-772) (-)





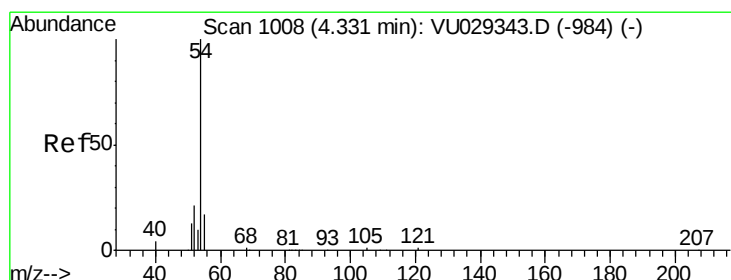
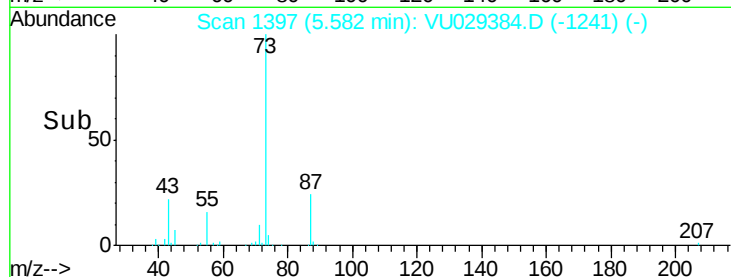
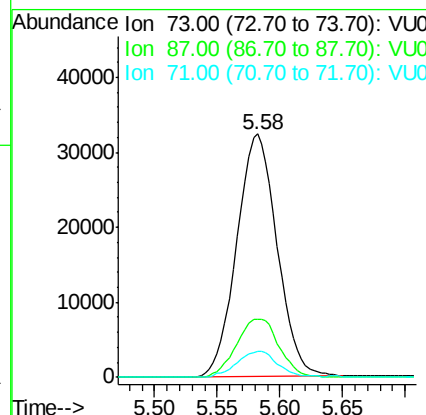
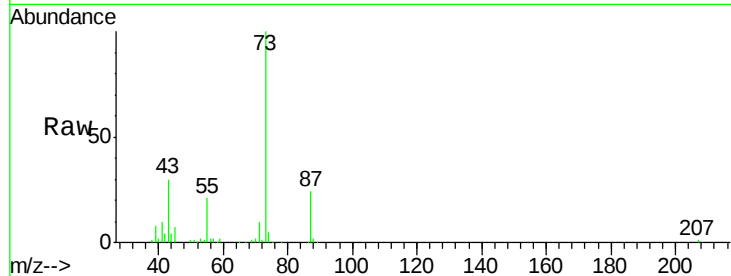
#33  
Tert-Butyl methyl ether  
Concen: 2.018 ug/l  
RT: 5.58 min Scan# 1397  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 25.5  | 19.4  | 29.0  |
| 71      | 10.5  | 9.0   | 13.4  |

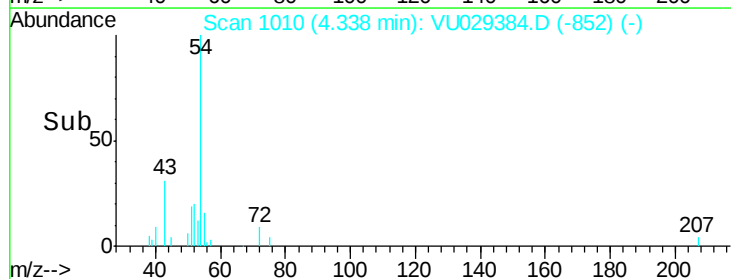
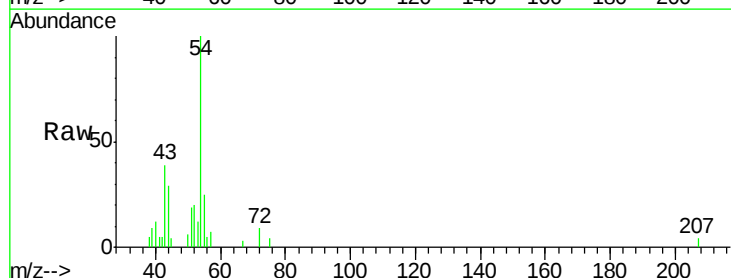
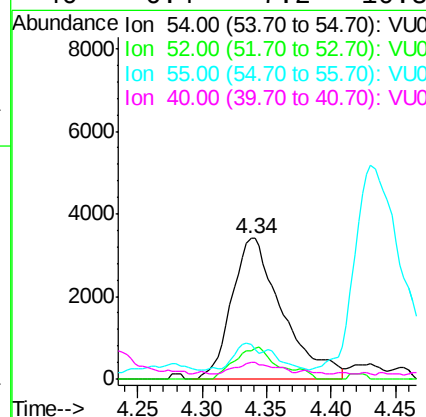
Manual Integrations  
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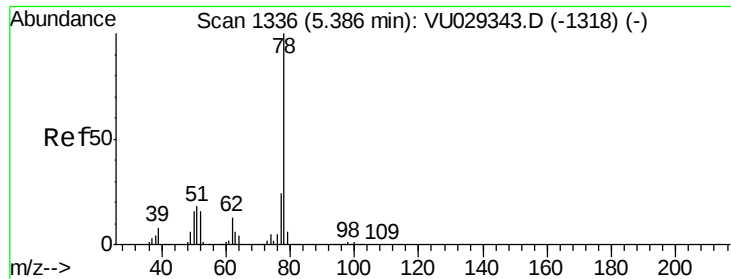
MMDadoda  
2/18/2019 12:15:56 PM



#34  
Propionitrile  
Concen: 9.937 ug/l  
RT: 4.34 min Scan# 1010  
Delta R.T. 0.01 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 19.3  | 18.9  | 28.3  |
| 55      | 7.9   | 15.1  | 22.7# |
| 40      | 6.4   | 7.2   | 10.8# |





#35

Benzene

Concen: 2.051 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 78 Resp: 116042

Ion Ratio Lower Upper

78 100

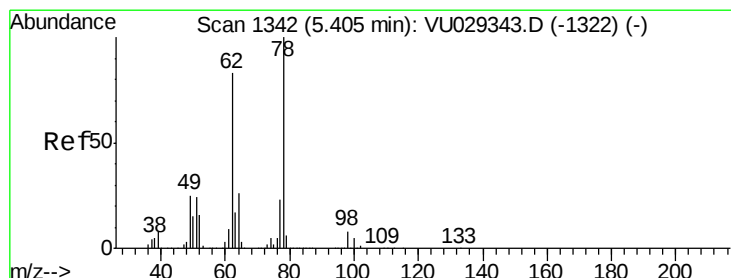
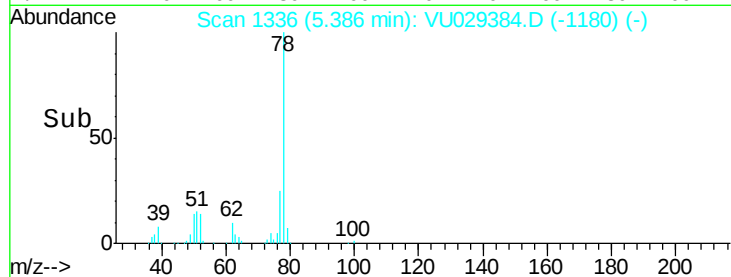
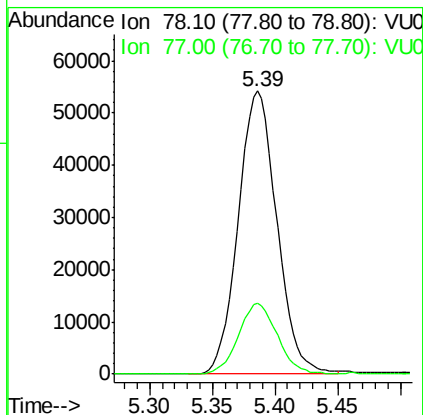
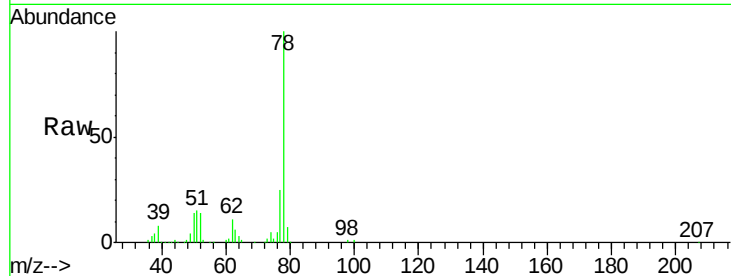
77 25.1 19.8 29.8

Manual Integrations

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#36

1,2-Dichloroethane

Concen: 1.969 ug/l

RT: 5.41 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU029384.D

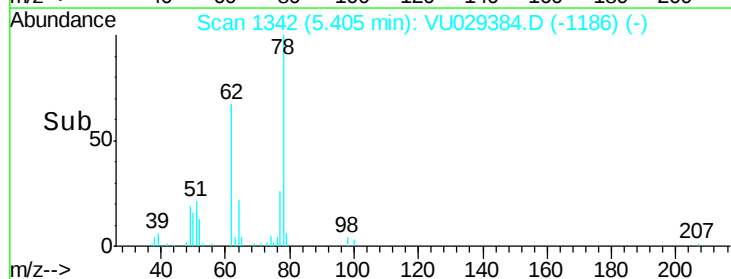
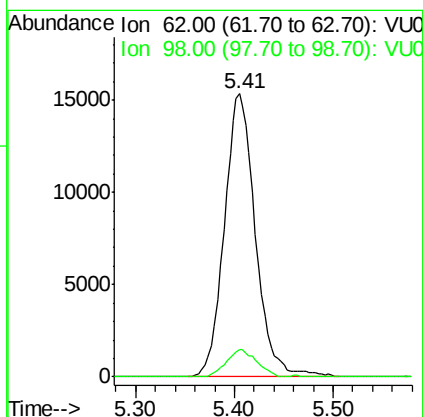
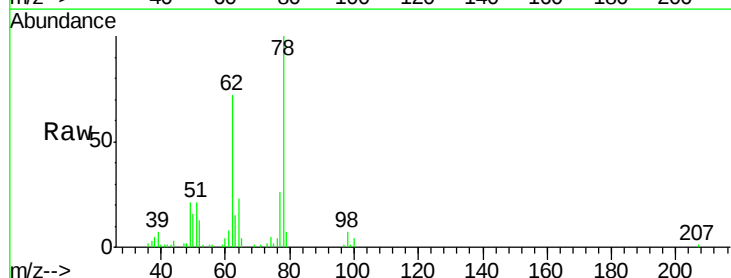
Acq: 08 Feb 2019 17:46

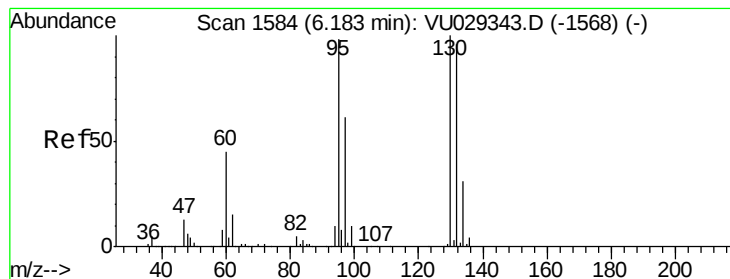
Tgt Ion: 62 Resp: 33704

Ion Ratio Lower Upper

62 100

98 9.3 4.9 7.3#





#37

Trichloroethene

Concen: 2.236 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion:130 Resp: 36301

Ion Ratio Lower Upper

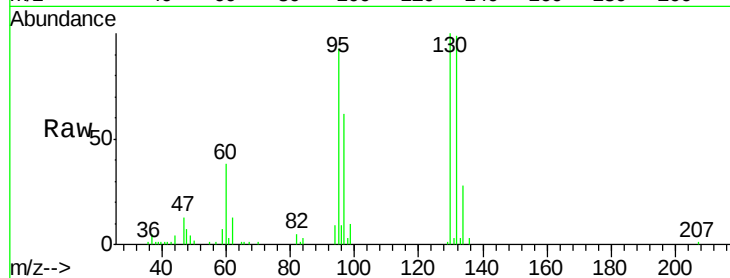
130 100

95 92.8 85.4 128.0

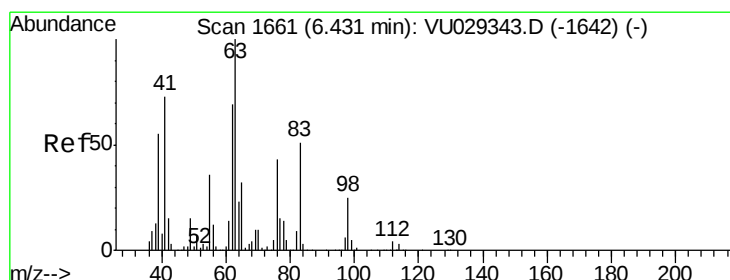
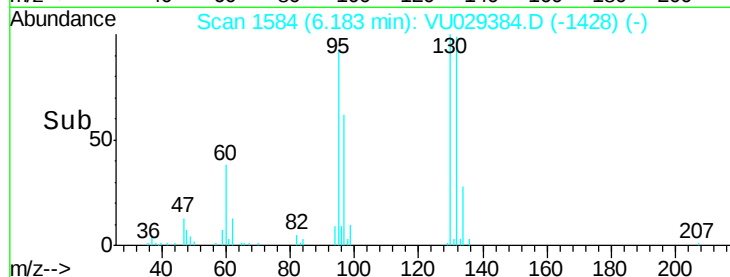
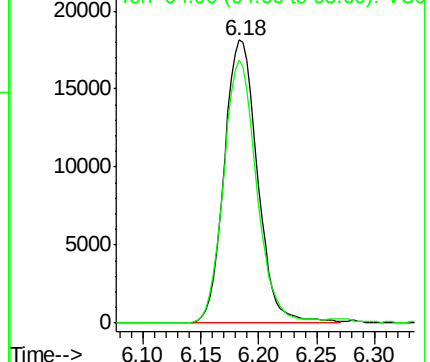
Manual Integrations  
APPROVED

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Abundance Ion 129.90 (129.60 to 130.60): VU029384.D (-1568) (-)



#38

1,2-Dichloropropane

Concen: 2.022 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029384.D

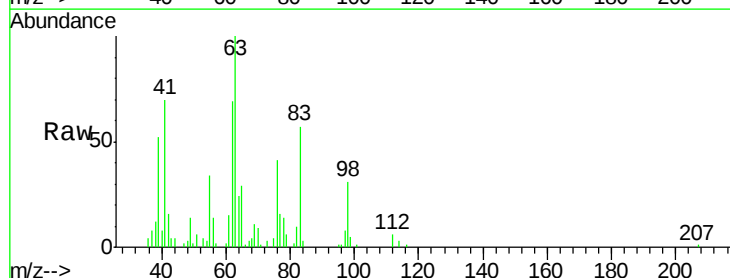
Acq: 08 Feb 2019 17:46

Tgt Ion: 63 Resp: 29764

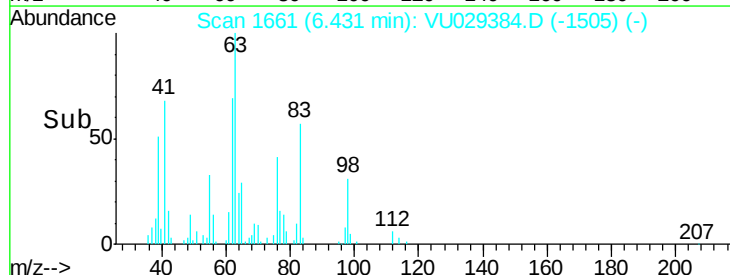
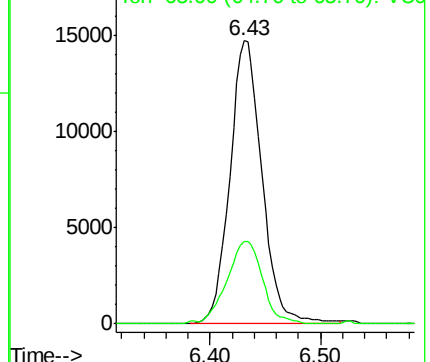
Ion Ratio Lower Upper

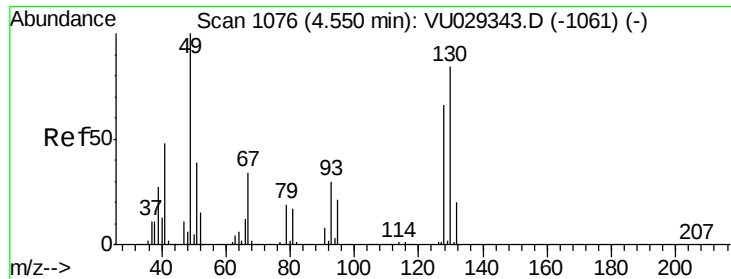
63 100

65 29.1 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU029384.D (-1642) (-)





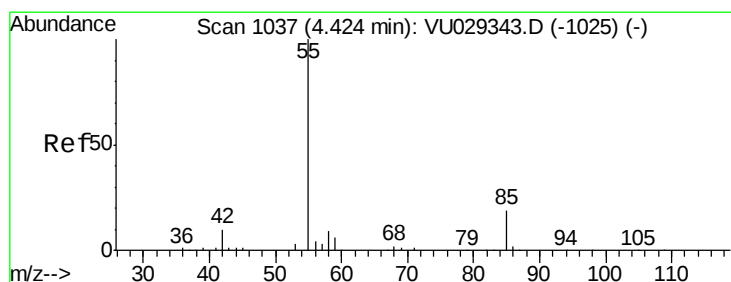
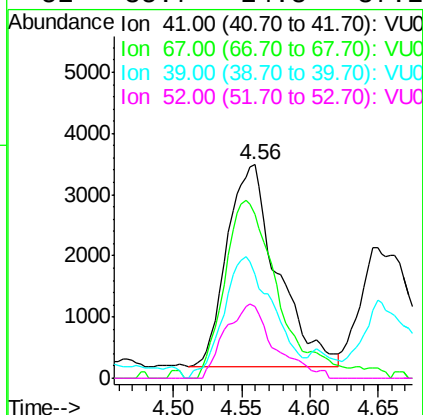
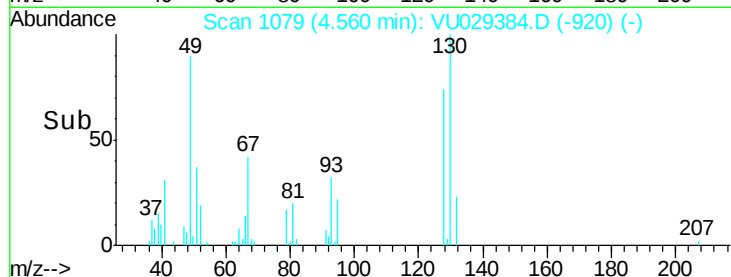
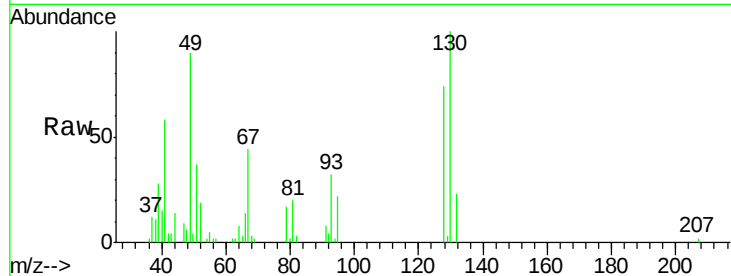
#39  
Methacrylonitrile  
Concen: 1.766 ug/l  
RT: 4.56 min Scan# 1079  
Delta R.T. 0.01 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampled :  
VU0208WBSD01

| Tot Ion | 41    | Resp: | 8470  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 41      | 100   |       |       |
| 67      | 92.8  | 50.1  | 75.1# |
| 39      | 60.3  | 47.9  | 71.9  |
| 52      | 35.7  | 24.8  | 37.2  |

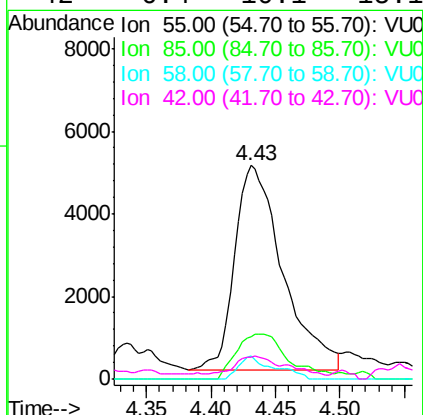
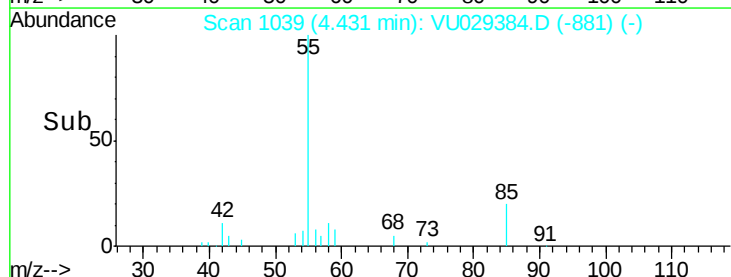
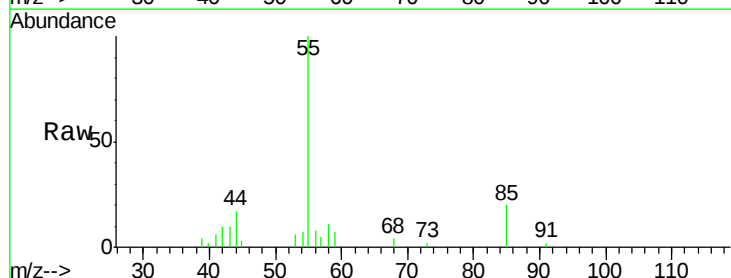
Manual Integrations  
APPROVED

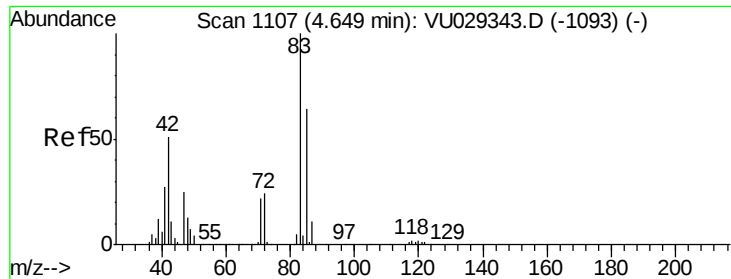
MMDadoda  
2/18/2019 12:15:56 PM



#40  
Methyl acrylate  
Concen: 1.779 ug/l  
RT: 4.43 min Scan# 1039  
Delta R.T. 0.01 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | 55    | Resp: | 12874 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 55      | 100   |       |       |
| 85      | 23.6  | 11.3  | 16.9# |
| 58      | 6.5   | 6.2   | 9.4   |
| 42      | 6.4   | 10.1  | 15.1# |





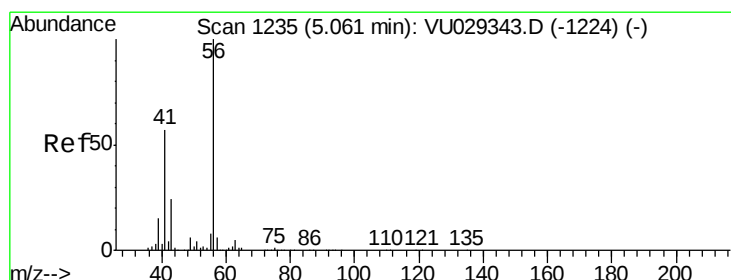
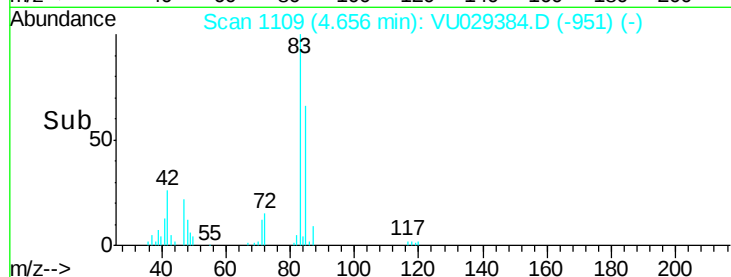
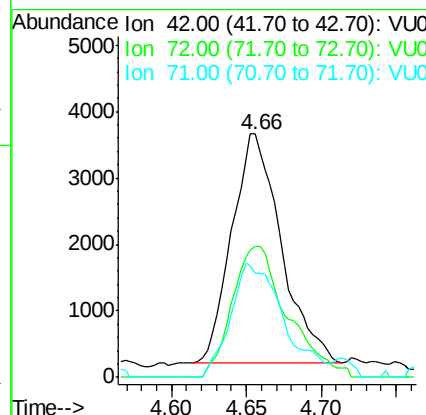
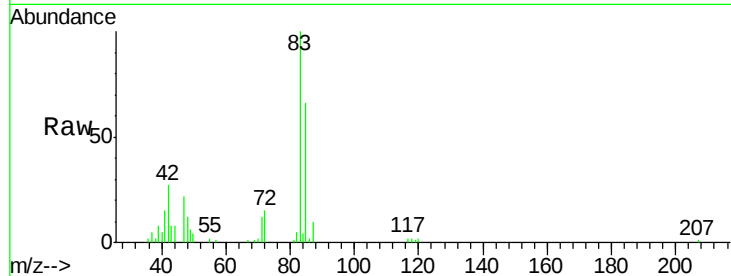
#41  
Tetrahydrofuran  
Concen: 3.286 ug/l  
RT: 4.66 min Scan# 1109  
Delta R.T. 0.01 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 63.9  | 33.1  | 49.7# |
| 71      | 53.2  | 30.2  | 45.2# |

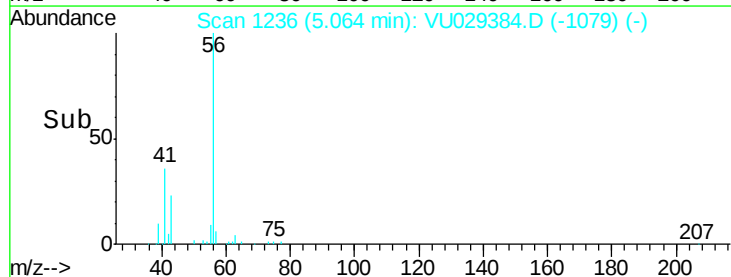
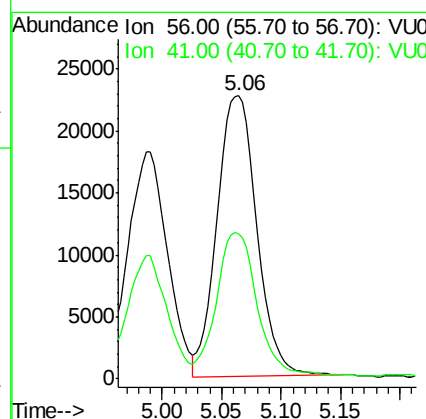
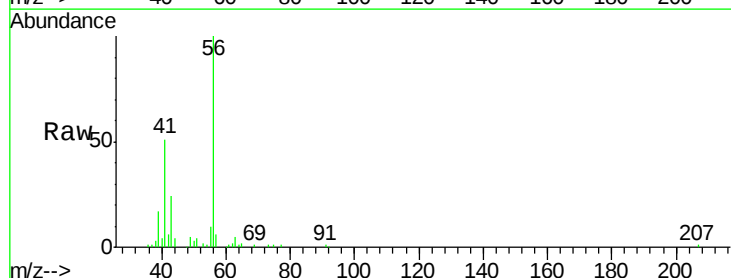
Manual Integrations  
APPROVED

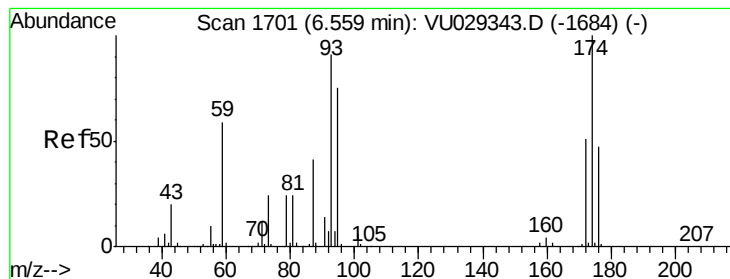
MMDadoda  
2/18/2019 12:15:56 PM



#42  
1-Chlorobutane  
Concen: 1.915 ug/l  
RT: 5.06 min Scan# 1236  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 51.1  | 31.3  | 93.8  |





#43

Dibromomethane

Concen: 2.041 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 93 Resp: 16011

Ion Ratio Lower Upper

93 100

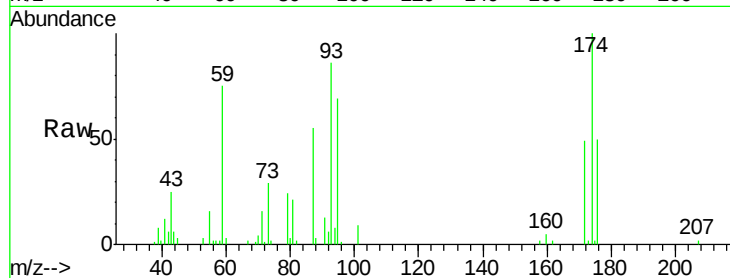
95 80.2 68.2 102.2

174 116.0 77.6 116.4

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APPROVED

MMDadoda

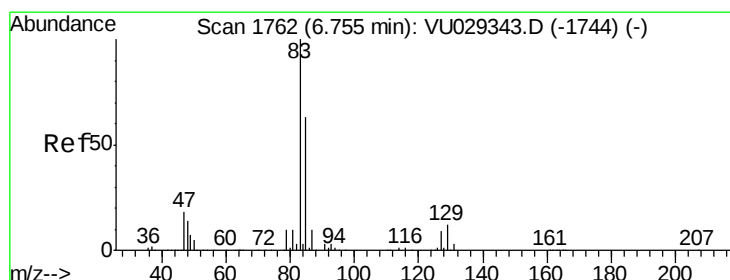
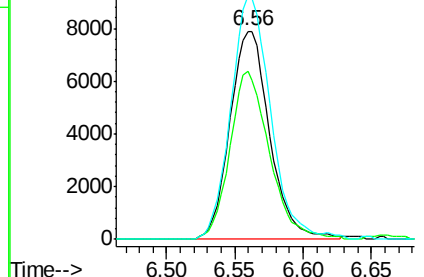
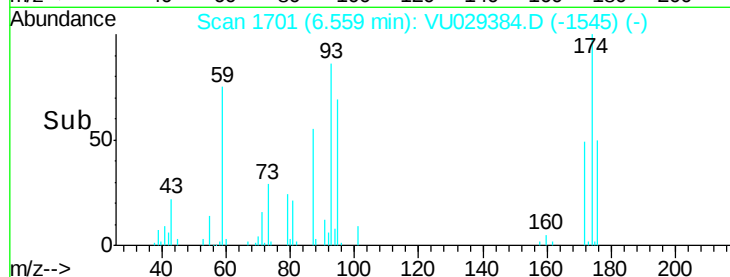
2/18/2019 12:15:56 PM



Abundance Ion 93.00 (92.70 to 93.70): VU029384.D (-1684) (-)

Ion 95.00 (94.70 to 95.70): VU029384.D (-1684) (-)

Ion 174.00 (173.70 to 174.70): VU029384.D (-1684) (-)



#44

Bromodichloromethane

Concen: 2.013 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

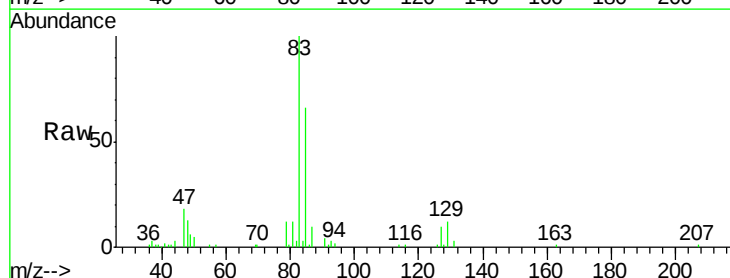
Tgt Ion: 83 Resp: 40235

Ion Ratio Lower Upper

83 100

85 65.5 49.2 73.8

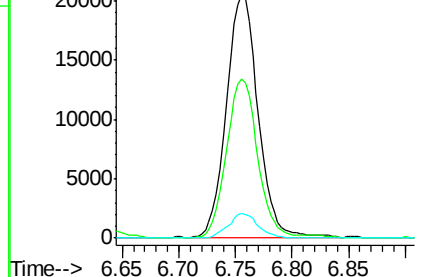
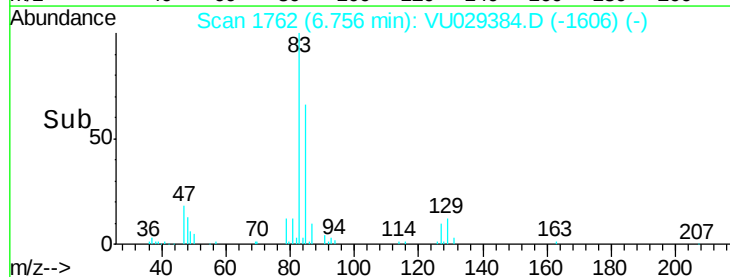
127 10.0 7.0 10.6

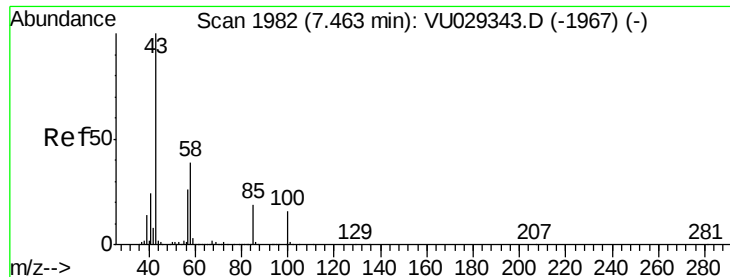


Abundance Ion 83.00 (82.70 to 83.70): VU029384.D (-1606) (-)

Ion 85.00 (84.70 to 85.70): VU029384.D (-1606) (-)

Ion 127.00 (126.70 to 127.70): VU029384.D (-1606) (-)





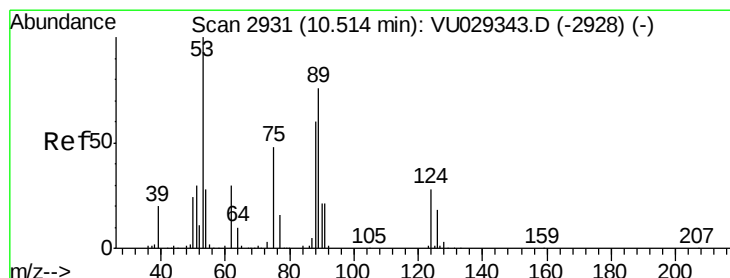
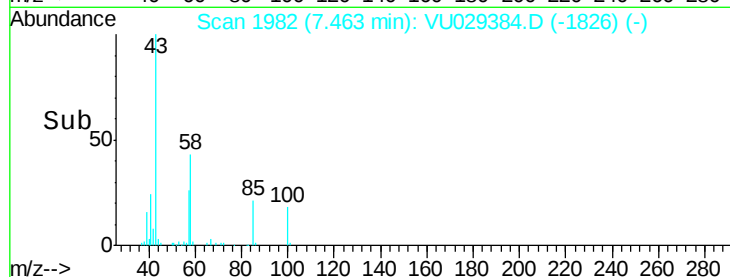
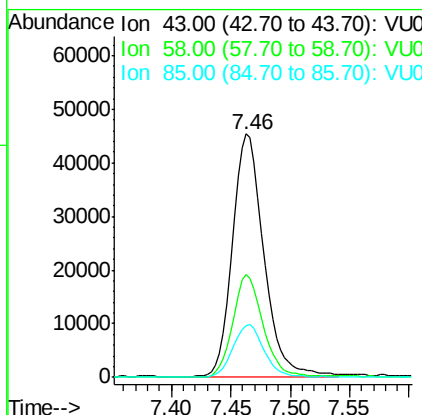
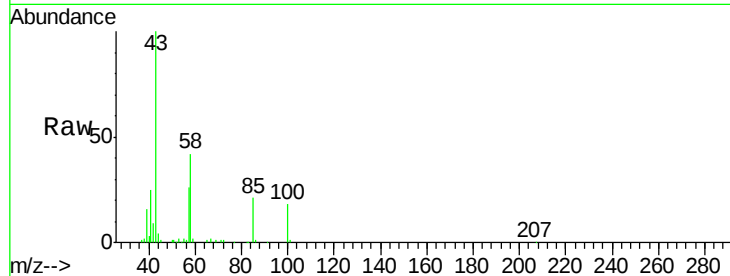
#45  
4-Methyl-2-Pentanone  
Concen: 8.975 ug/l  
RT: 7.46 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.5  | 17.6  | 52.8  |
| 85      | 21.4  | 12.3  | 18.5# |

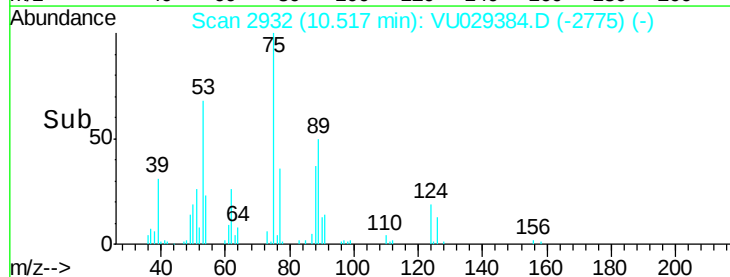
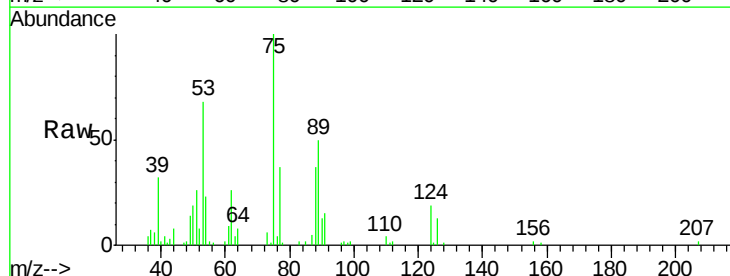
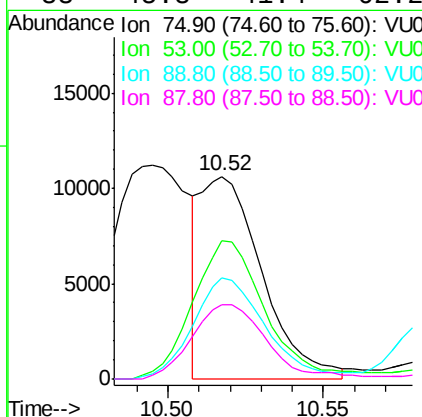
Manual Integrations  
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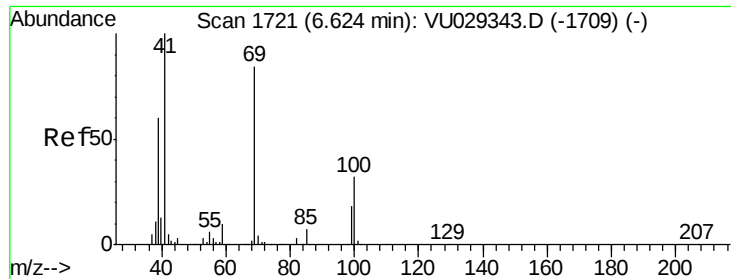
MMDadoda  
2/18/2019 12:15:56 PM



#46  
t-1,4-Dichloro-2-butene  
Concen: 3.232 ug/l m  
RT: 10.52 min Scan# 2932  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 81.7  | 78.2  | 117.4 |
| 89      | 59.8  | 44.2  | 66.4  |
| 88      | 45.8  | 41.4  | 62.2  |





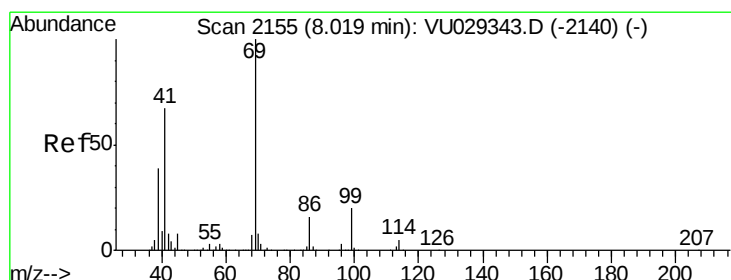
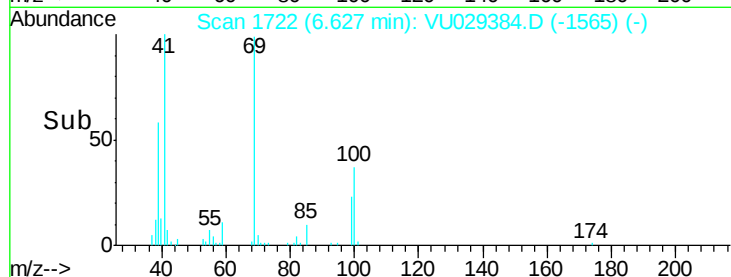
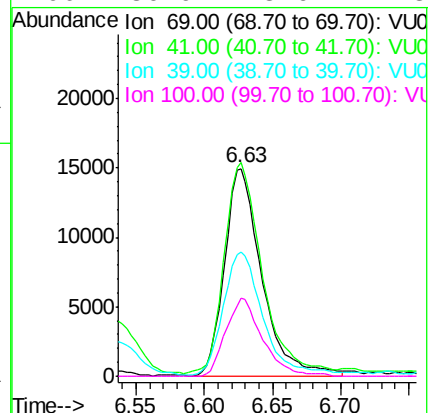
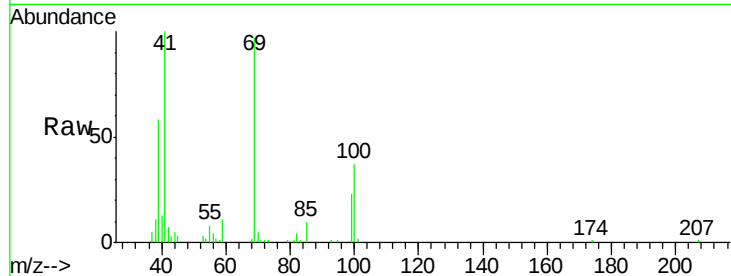
#47  
Methvl methacrylate  
Concen: 4.130 ug/l  
RT: 6.63 min Scan# 1722  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 69      | 100   |      |       |       |
| 41      | 101.5 | 0.0  | 296.2 |       |
| 39      | 62.0  | 71.2 | 106.8 |       |
| 100     | 36.9  | 28.6 | 42.8  |       |

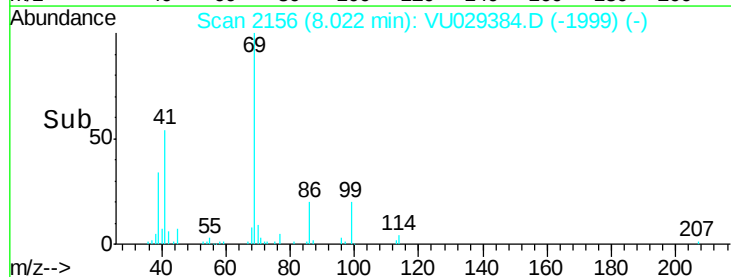
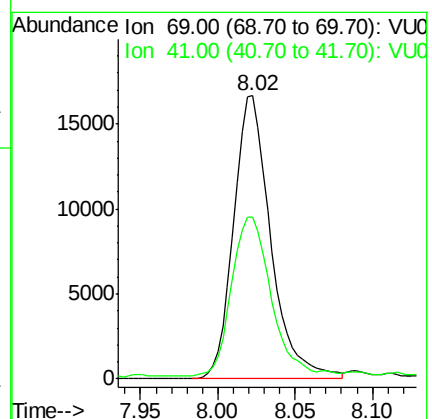
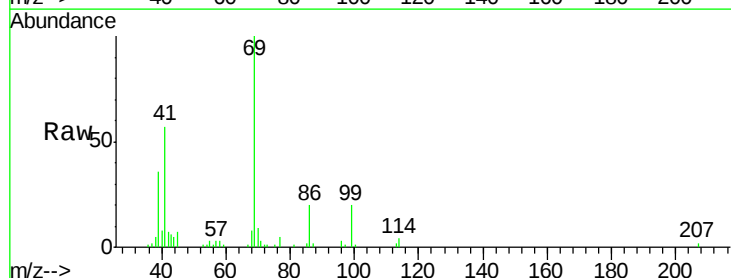
Manual Integrations  
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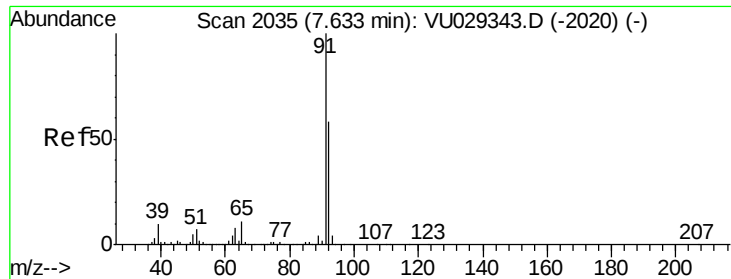
MMDadoda  
2/18/2019 12:15:56 PM



#48  
Ethyl methacrylate  
Concen: 1.874 ug/l  
RT: 8.02 min Scan# 2156  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 69      | 100   |      |       |       |
| 41      | 59.5  | 39.9 | 119.7 |       |





#49

Toluene

Concen: 2.055 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 92 Resp: 74408

Ion Ratio Lower Upper

92 100

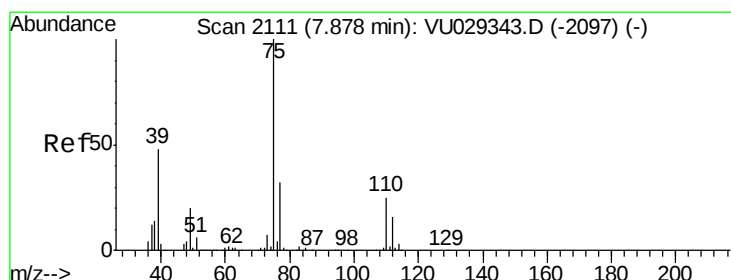
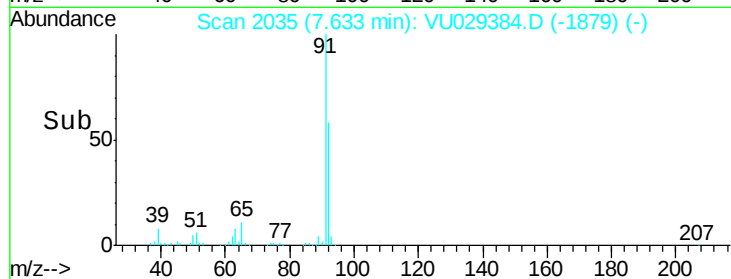
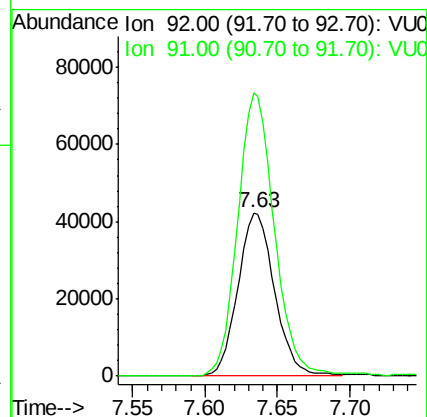
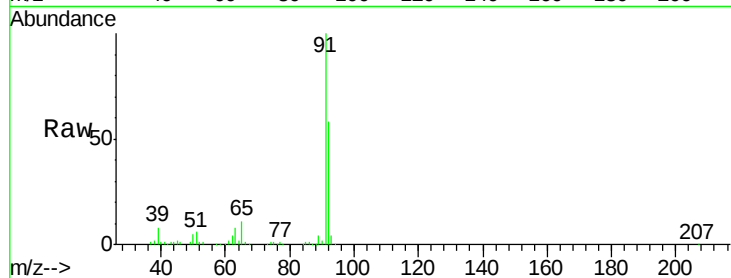
91 173.4 140.7 211.1

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 1.827 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU029384.D

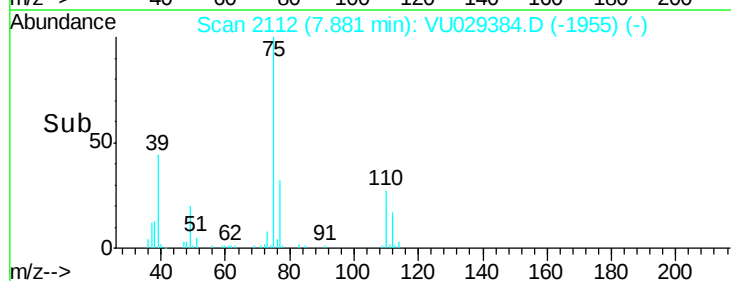
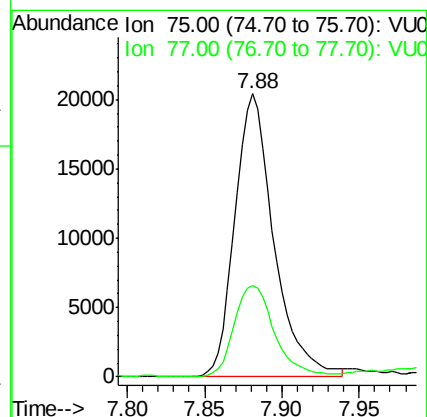
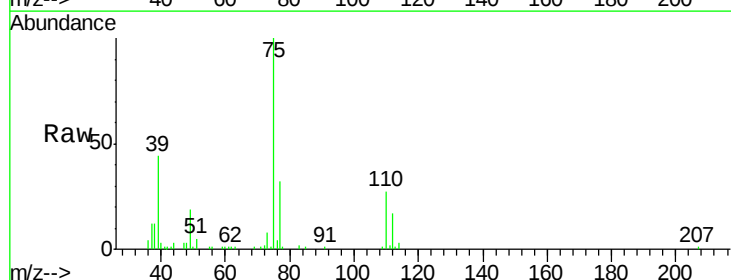
Acq: 08 Feb 2019 17:46

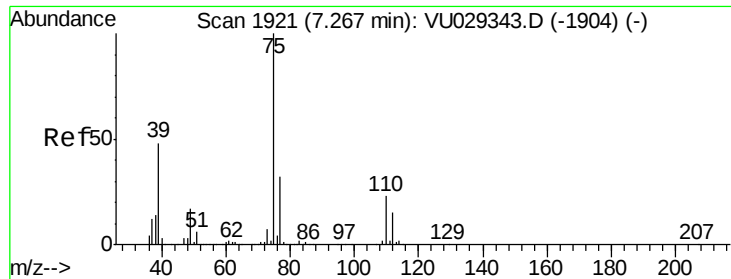
Tgt Ion: 75 Resp: 35794

Ion Ratio Lower Upper

75 100

77 32.3 23.6 35.4





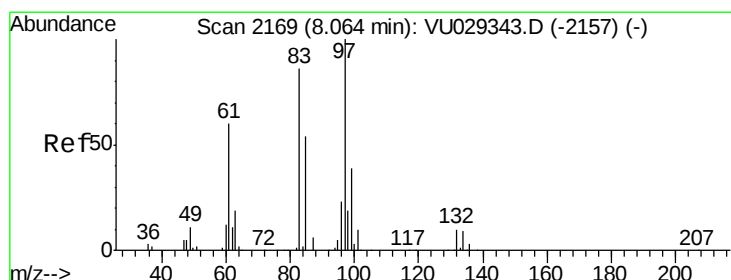
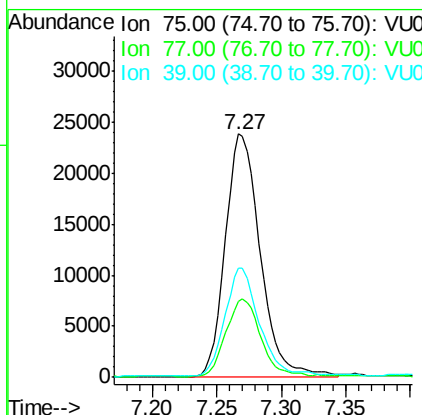
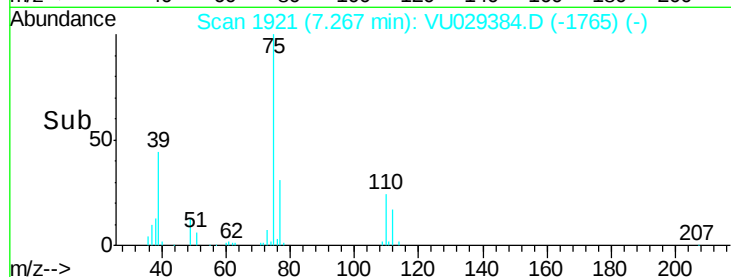
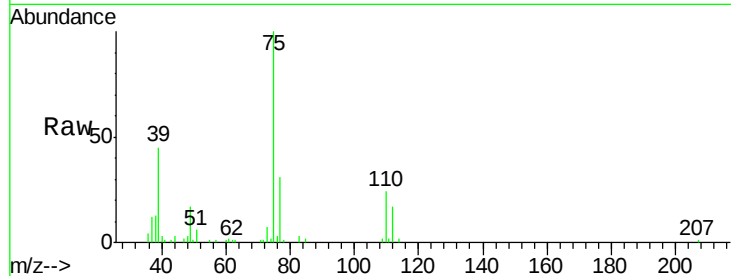
#51  
 cis-1,3-Dichloropropene  
 Concen: 1.935 ug/l  
 RT: 7.27 min Scan# 1921  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.1  | 24.9  | 37.3  |
| 39      | 44.5  | 47.2  | 70.8# |

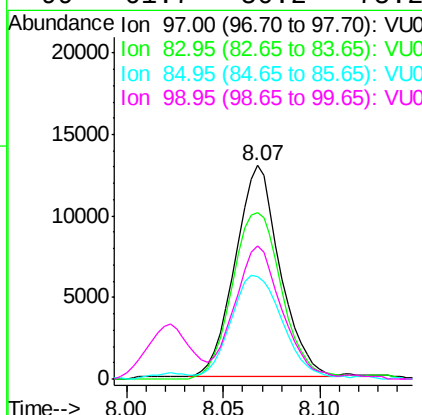
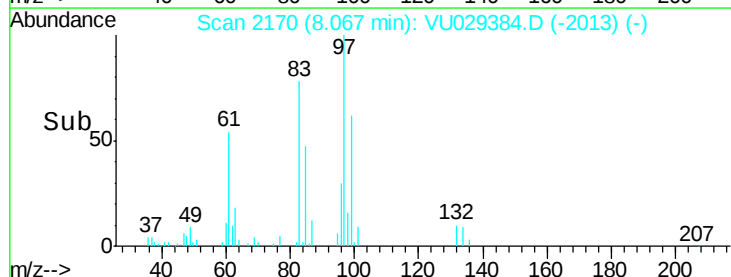
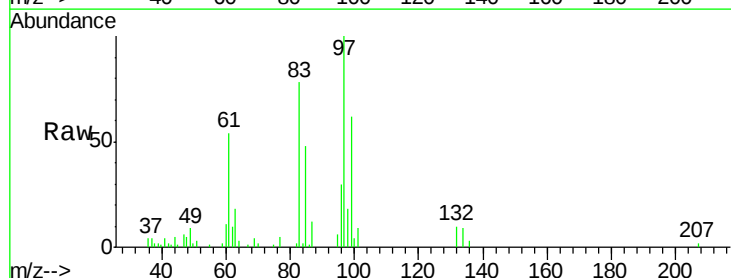
Manual Integrations  
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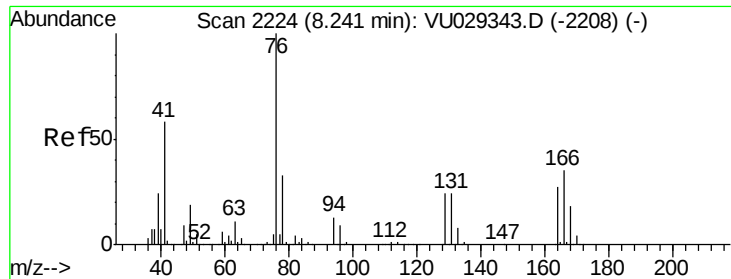
MMDadoda  
 2/18/2019 12:15:56 PM



#52  
 1,1,2-Trichloroethane  
 Concen: 2.003 ug/l  
 RT: 8.07 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 78.9  | 69.9  | 104.9 |
| 85      | 47.5  | 45.8  | 68.6  |
| 99      | 61.7  | 50.2  | 75.2  |





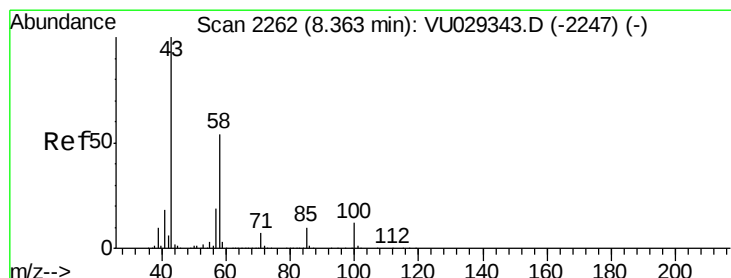
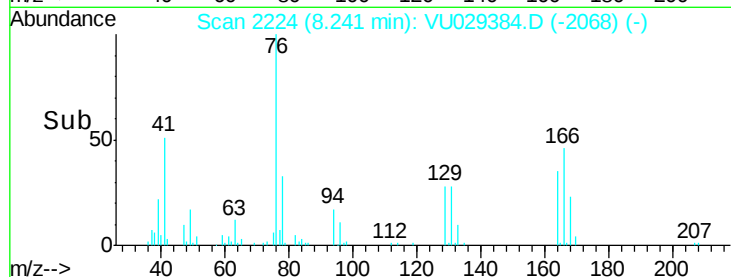
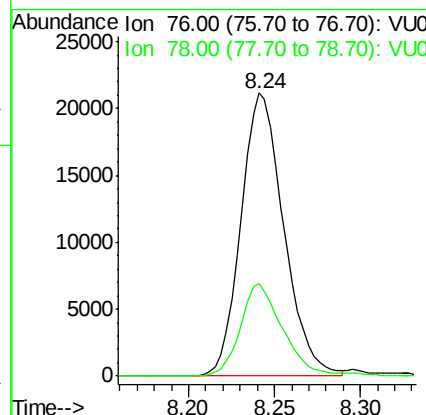
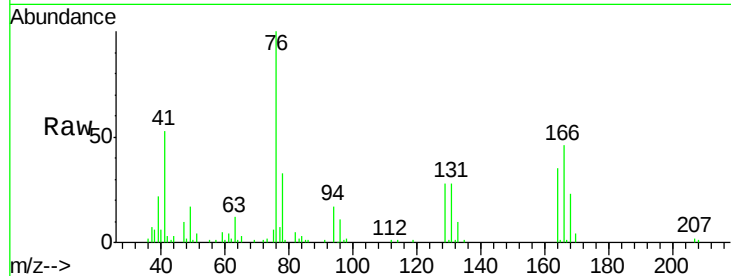
#53  
 1,3-Dichloropropane  
 Concen: 2.007 ug/l  
 RT: 8.24 min Scan# 2224  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.6  | 26.3  | 39.5  |

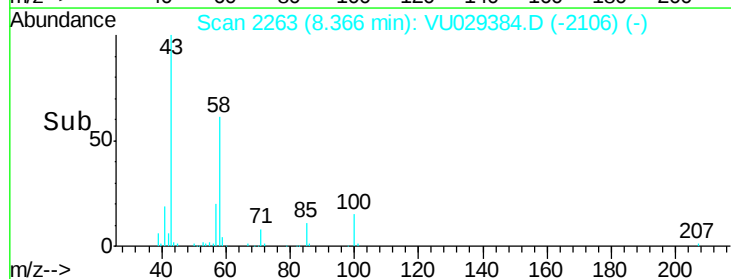
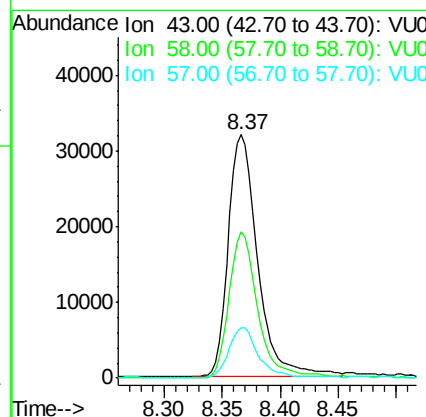
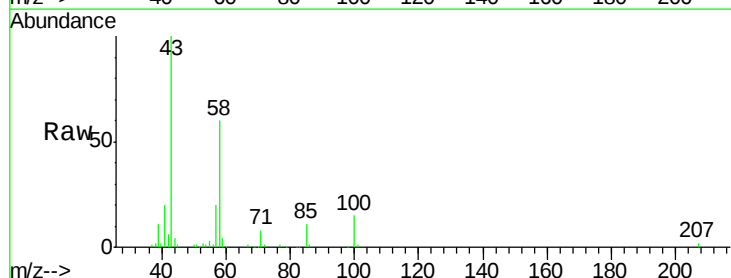
Manual Integrations  
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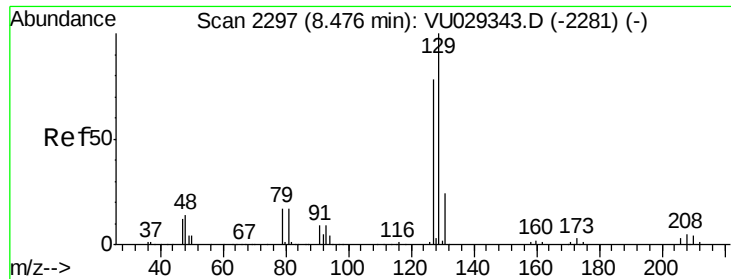
MMDadoda  
 2/18/2019 12:15:56 PM



#54  
 2-Hexanone  
 Concen: 8.794 ug/l  
 RT: 8.37 min Scan# 2263  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 57.7  | 26.0  | 66.0  |
| 57      | 21.1  | 0.0   | 37.7  |





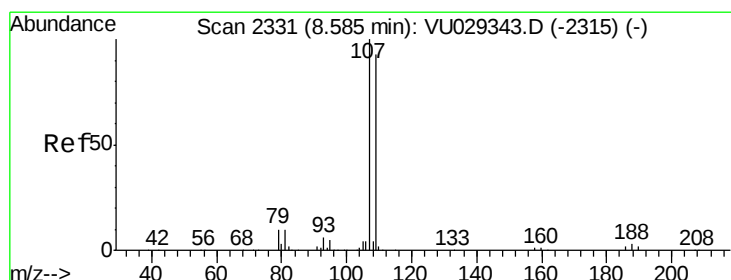
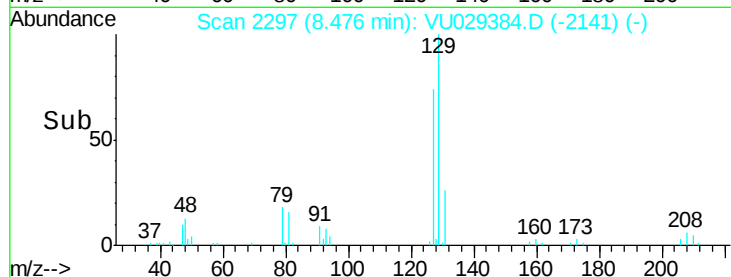
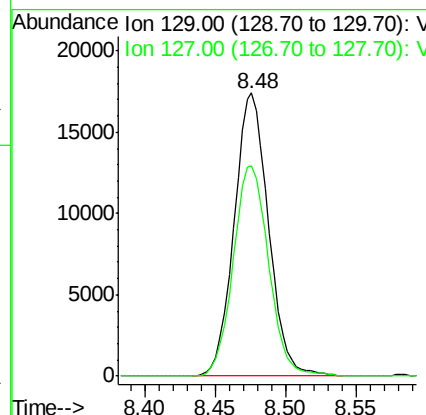
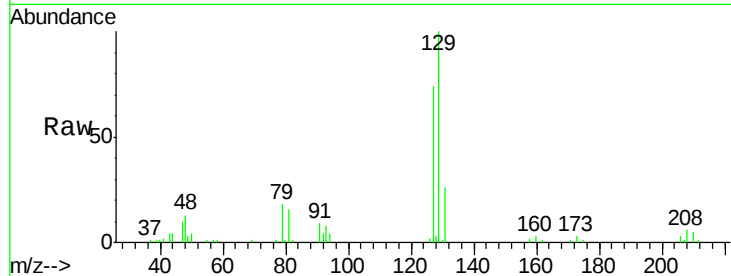
#55  
 Dibromochloromethane  
 Concen: 2.010 ug/l  
 RT: 8.48 min Scan# 2297  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 76.7  | 60.5  | 90.7  |

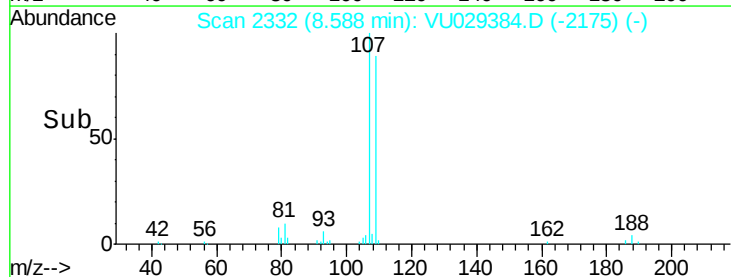
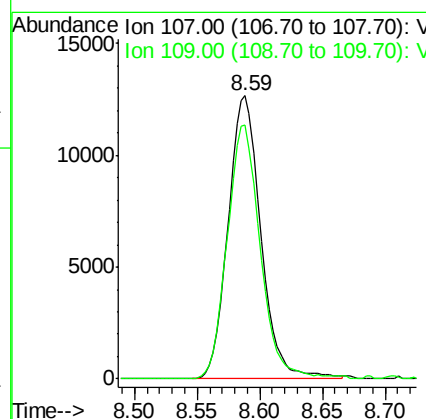
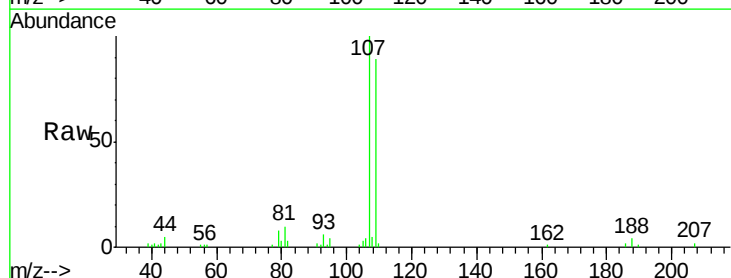
Manual Integrations  
 APPROVED

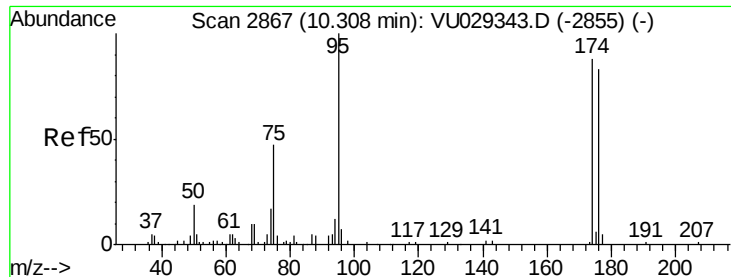
MMDadoda  
 2/18/2019 12:15:56 PM



#56  
 1,2-Dibromoethane  
 Concen: 2.161 ug/l  
 RT: 8.59 min Scan# 2332  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 90.0  | 0.0   | 189.6 |





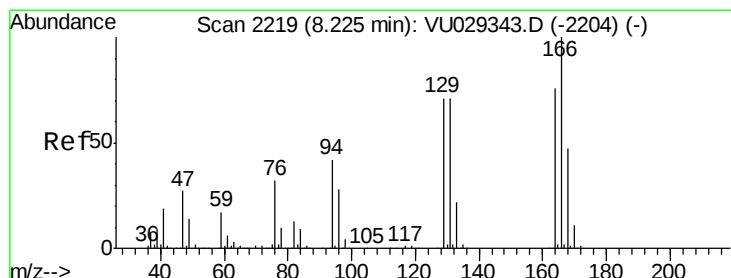
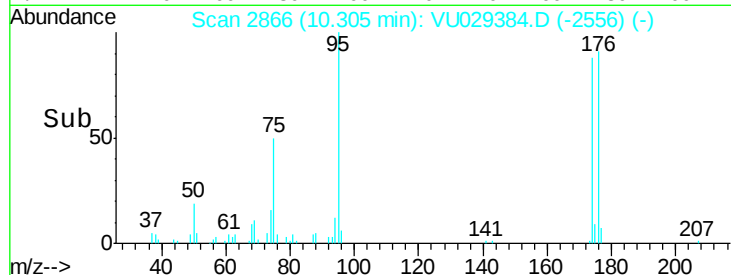
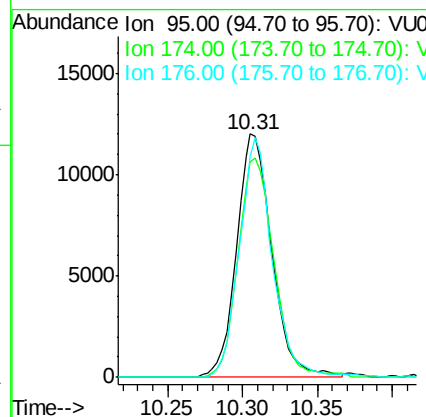
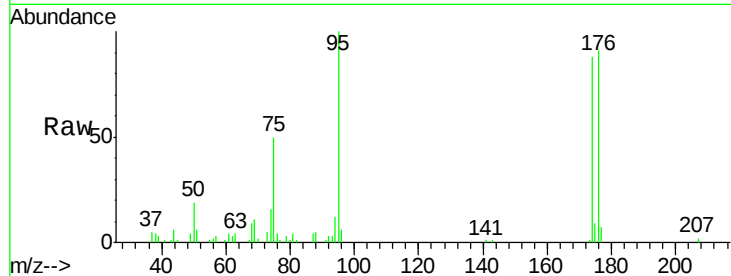
#57  
4-Bromofluorobenzene  
Concen: 2.161 ug/l  
RT: 10.31 min Scan# 2866  
Delta R.T. -0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 91.9  | 64.2  | 96.2  |
| 176     | 92.9  | 62.3  | 93.5  |

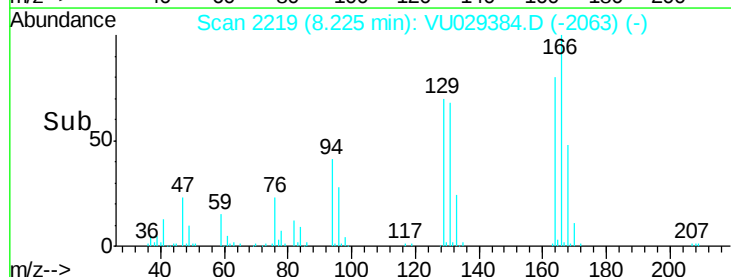
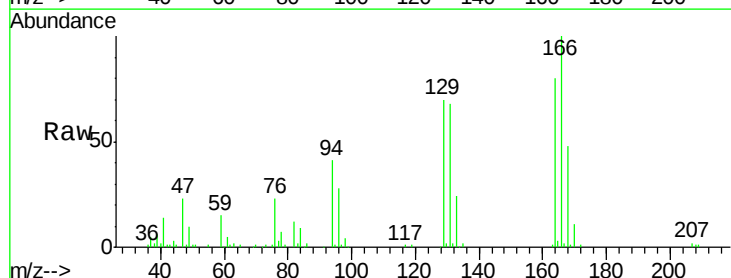
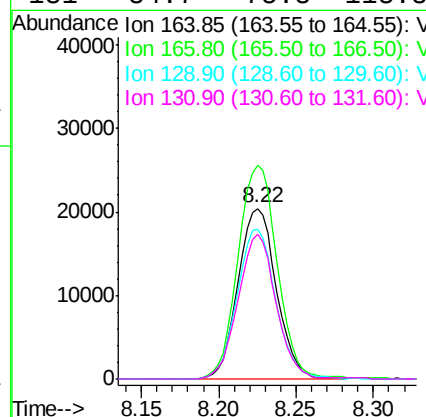
Manual Integrations  
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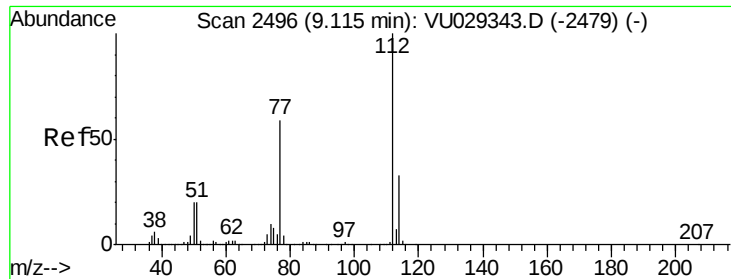
MMDadoda  
2/18/2019 12:15:56 PM



#58  
Tetrachloroethene  
Concen: 2.328 ug/l  
RT: 8.22 min Scan# 2219  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 125.0 | 106.6 | 159.8 |
| 129     | 87.3  | 79.9  | 119.9 |
| 131     | 84.7  | 75.8  | 113.8 |





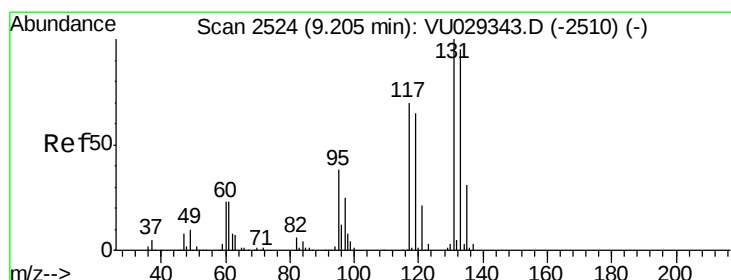
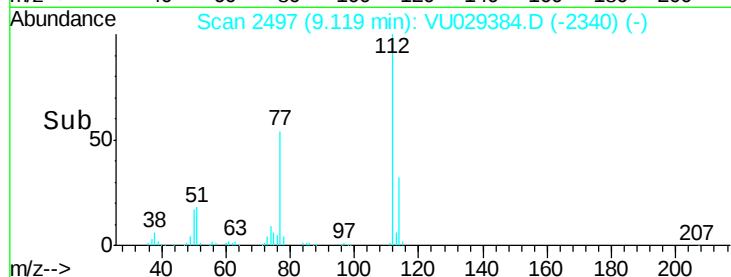
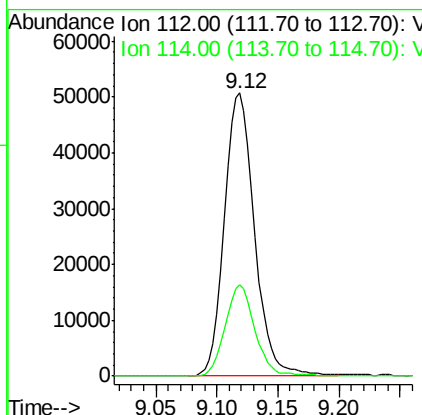
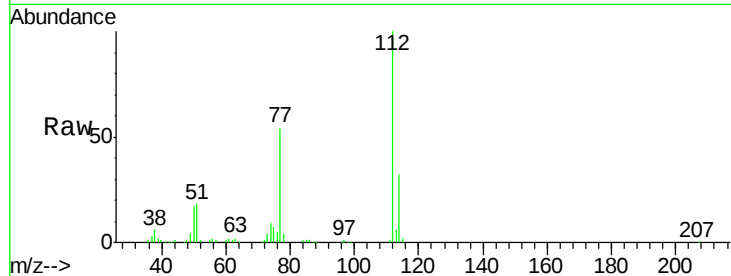
#59  
Chlorobenzene  
Concen: 2.161 ug/l  
RT: 9.12 min Scan# 2497  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.5  | 26.2  | 39.4  |

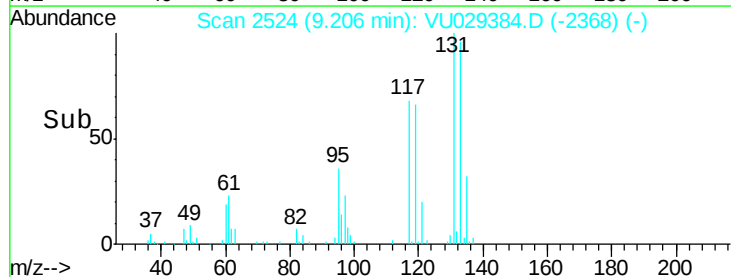
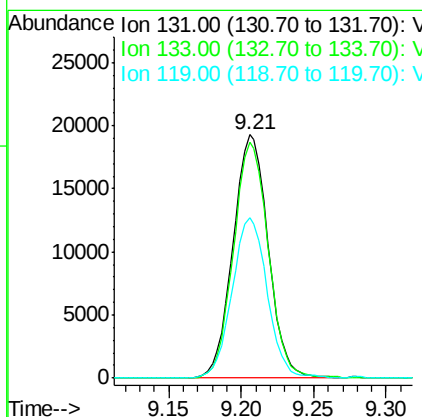
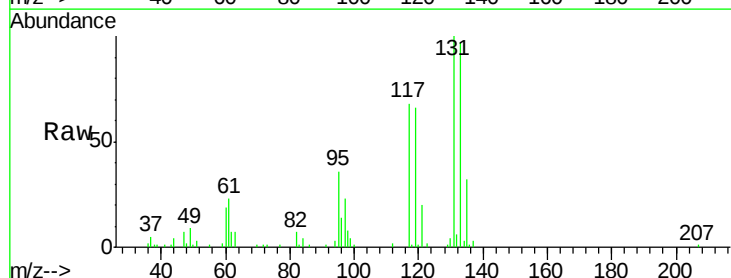
Manual Integrations  
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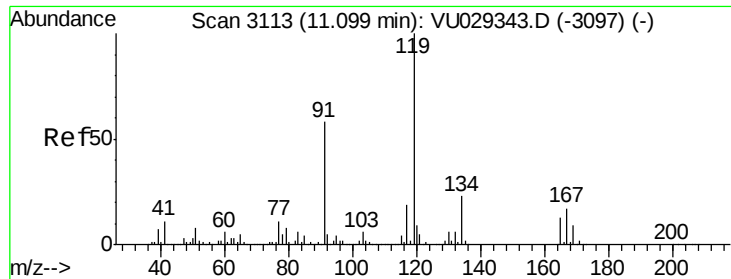
MMDadoda  
2/18/2019 12:15:56 PM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 2.158 ug/l  
RT: 9.21 min Scan# 2524  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 95.9  | 77.3  | 115.9 |
| 119     | 65.7  | 48.9  | 73.3  |





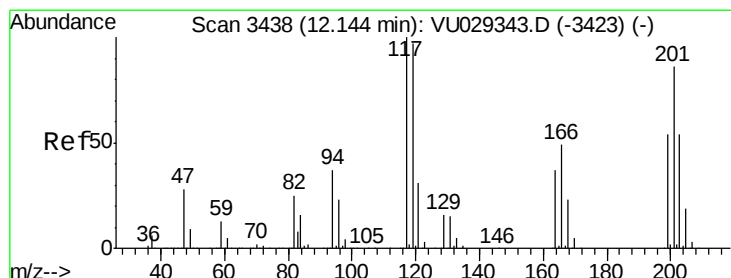
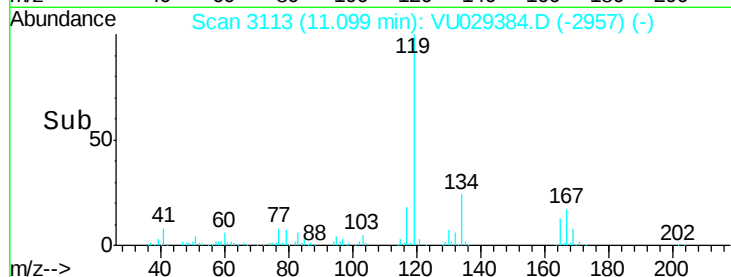
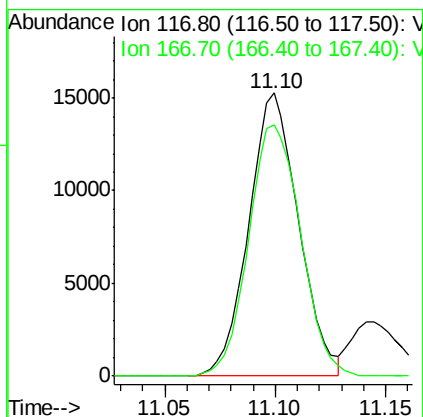
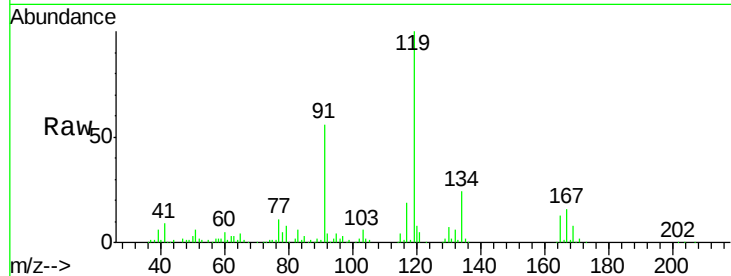
#61  
 Pentachloroethane  
 Concen: 2.044 ug/l  
 RT: 11.10 min Scan# 3113  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 167     | 92.8  | 65.9  | 98.9  |

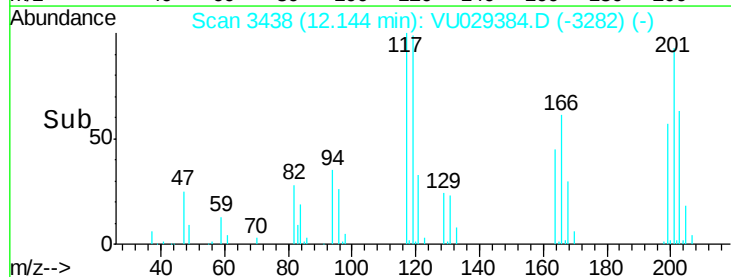
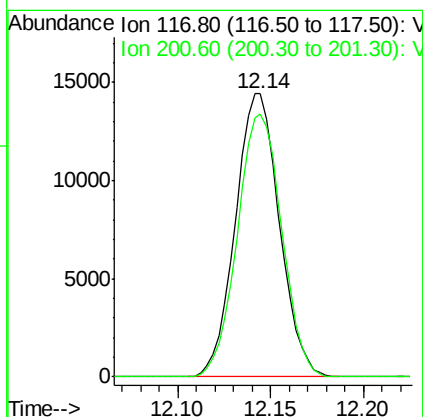
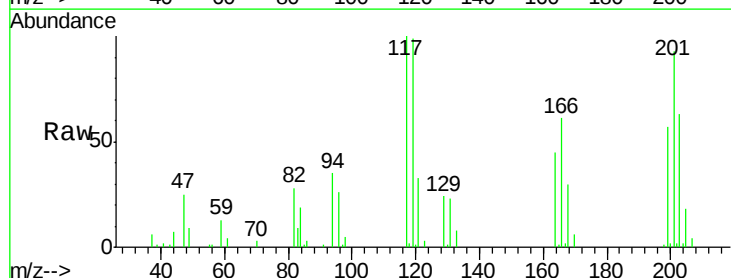
Manual Integrations  
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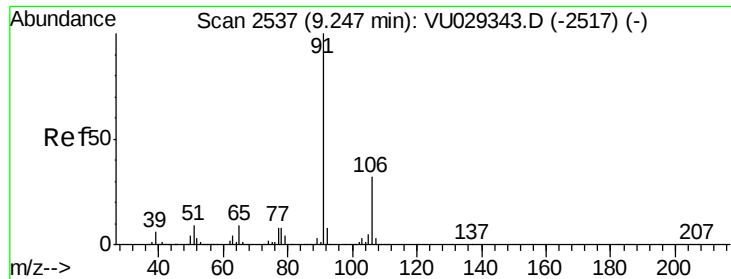
MMDadoda  
 2/18/2019 12:15:56 PM



#62  
 Hexachloroethane  
 Concen: 1.860 ug/l  
 RT: 12.14 min Scan# 3438  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 93.7  | 68.2  | 102.2 |





#63

Ethyl Benzene

Concen: 2.072 ug/l

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 91 Resp: 146782

Ion Ratio Lower Upper

91 100

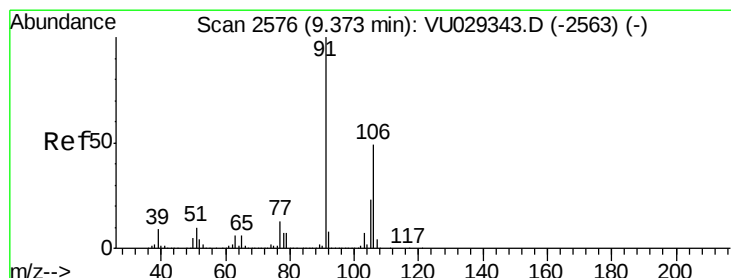
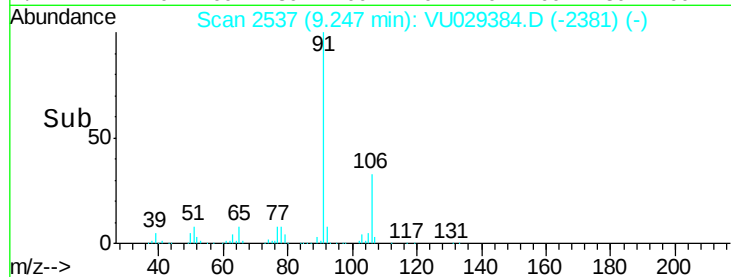
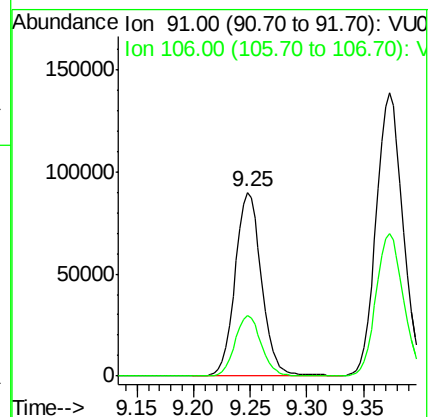
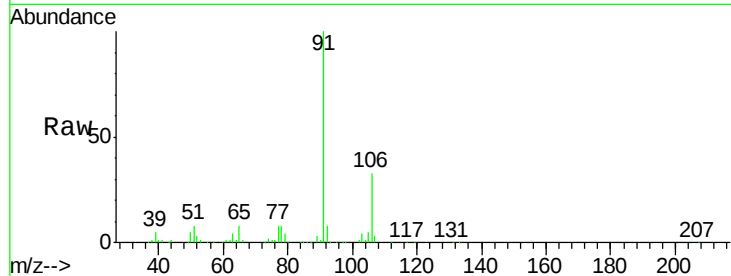
106 32.8 23.8 35.6

Manual Integrations

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#64

m/p-Xylenes

Concen: 4.305 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029384.D

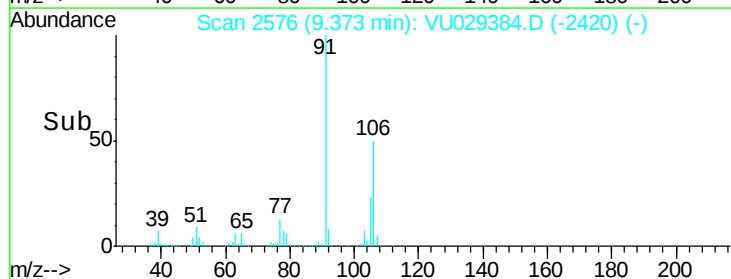
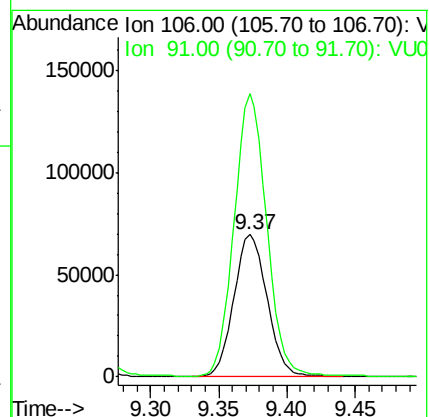
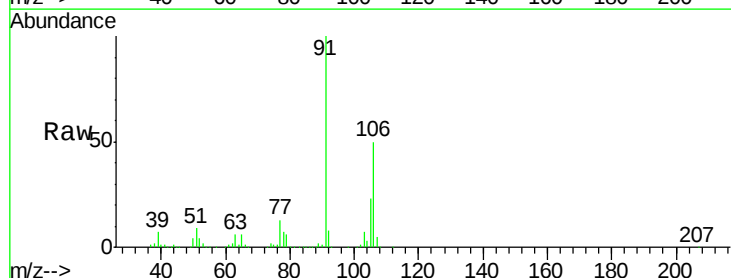
Acq: 08 Feb 2019 17:46

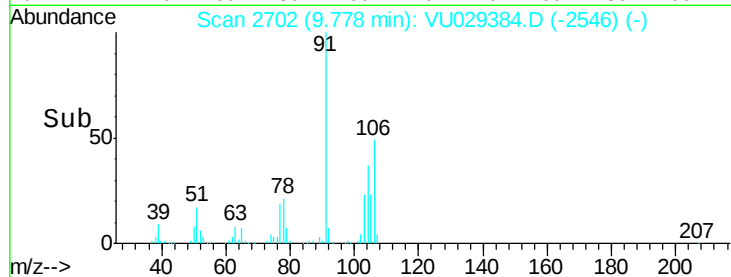
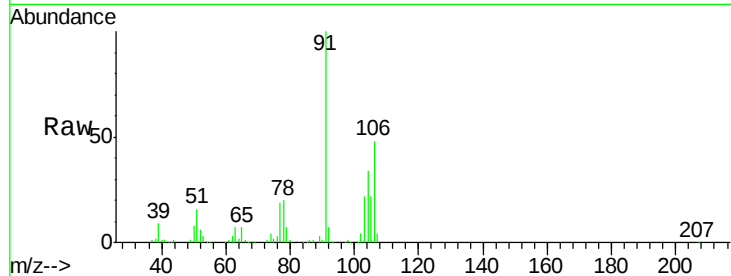
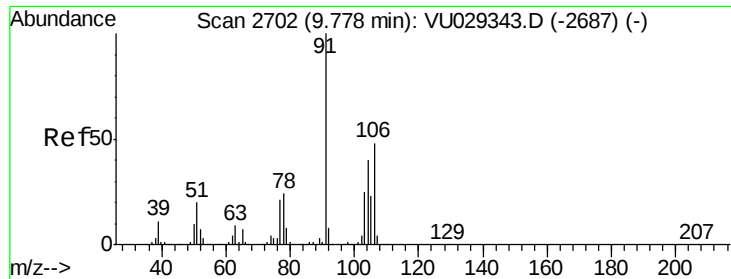
Tgt Ion: 106 Resp: 118510

Ion Ratio Lower Upper

106 100

91 192.3 174.6 261.8





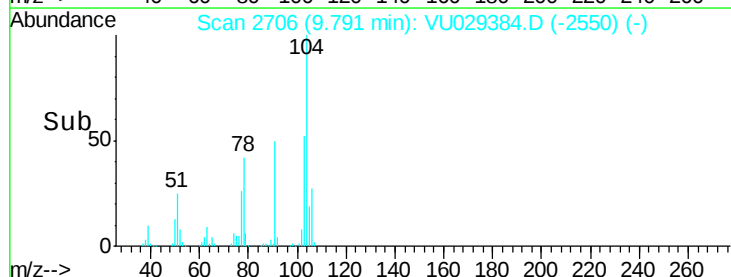
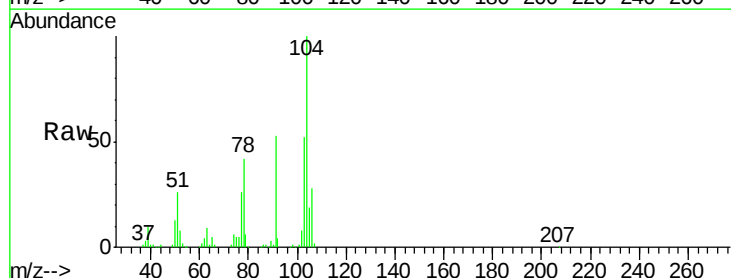
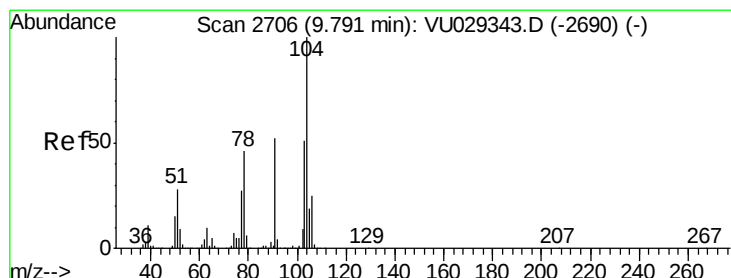
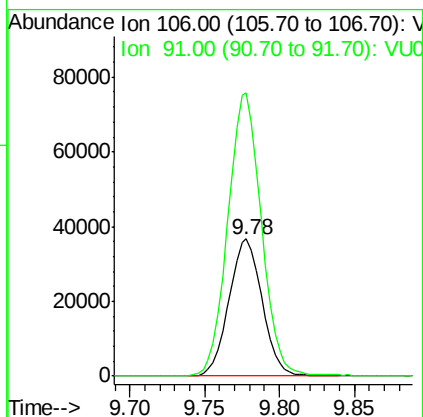
#65  
o-Xylene  
Concen: 2.105 ug/l  
RT: 9.78 min Scan# 2702  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Tot Ion:106 Resp: 56890  
Ion Ratio Lower Upper  
106 100  
91 207.2 114.5 343.4

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

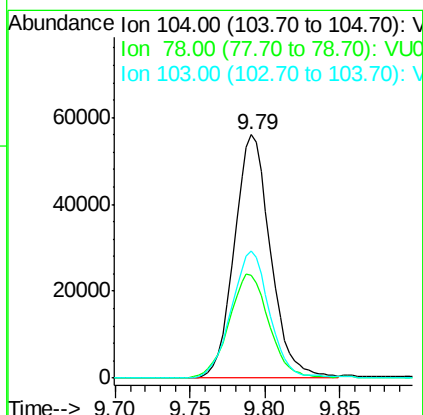
Manual Integrations  
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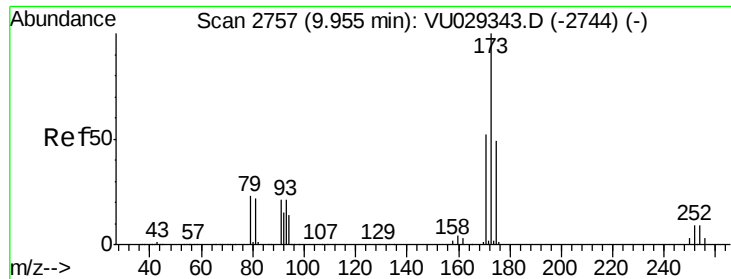
MMDadoda  
2/18/2019 12:15:56 PM



#66  
Styrene  
Concen: 2.098 ug/l  
RT: 9.79 min Scan# 2706  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Tgt Ion:104 Resp: 94497  
Ion Ratio Lower Upper  
104 100  
78 47.0 46.5 69.7  
103 55.5 44.7 67.1





#67

Bromoform

Concen: 2.030 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

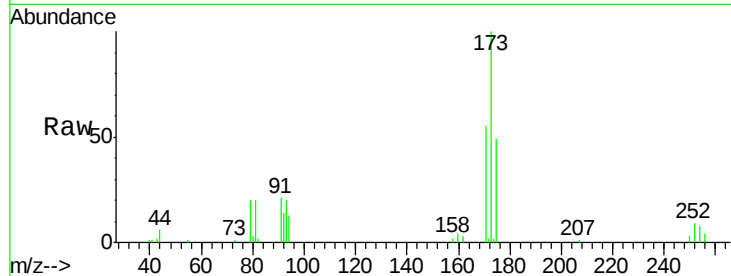
VU0208WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 18636 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 50.0  | 38.9  | 58.3  |
| 254       | 9.6   | 7.4   | 11.2  |

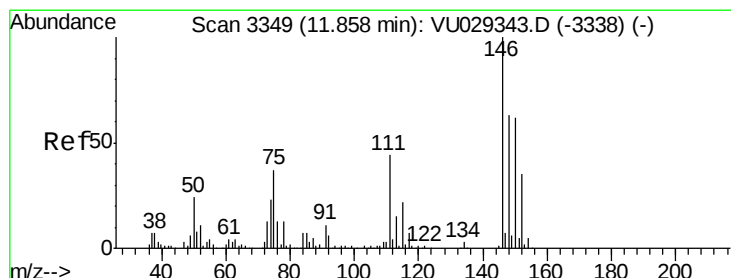
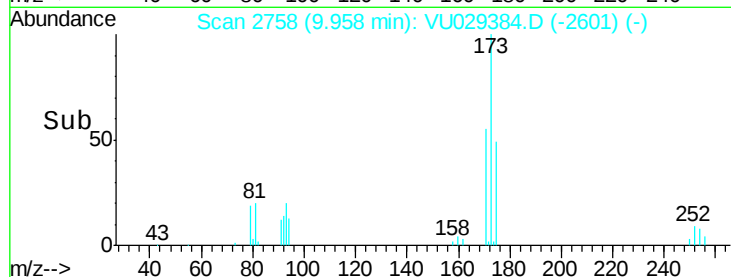
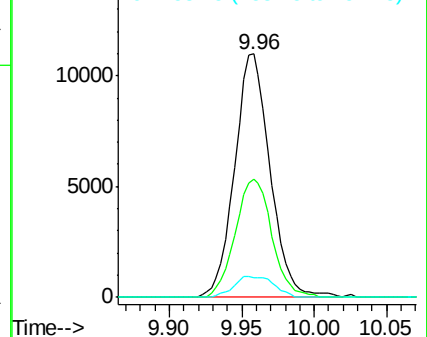
Manual Integrations  
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Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 2.030 ug/l

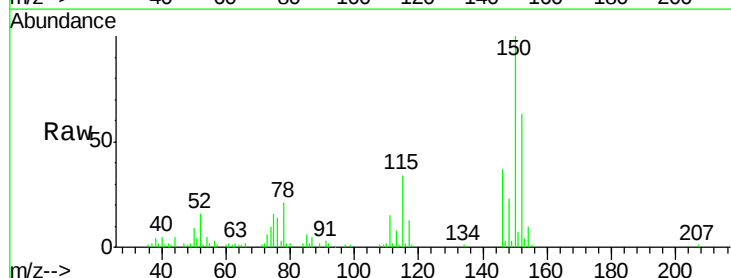
RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

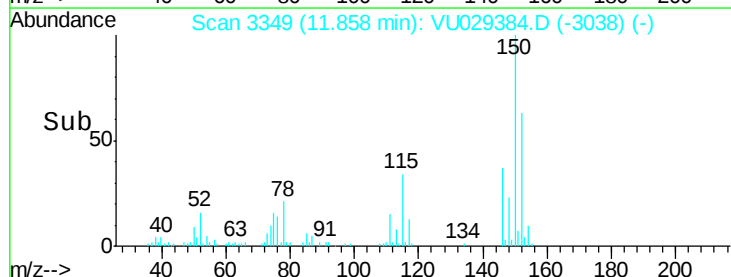
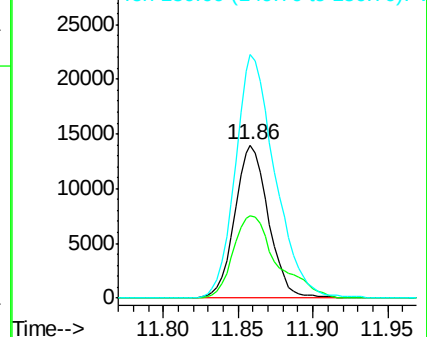
Lab File: VU029384.D

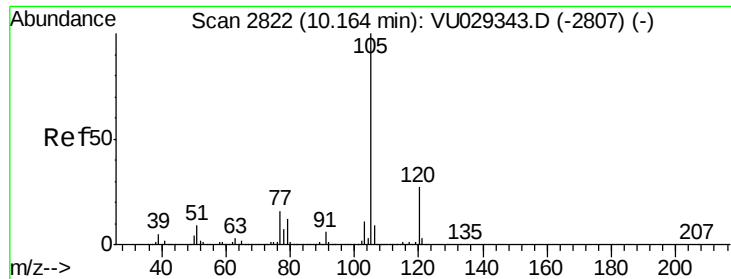
Acq: 08 Feb 2019 17:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 21911 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 69.9  | 0.0   | 133.4 |
| 150       | 187.7 | 0.0   | 670.8 |



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: 2.108 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampled :

VU0208WBSD01

Tot Ion:105 Resp: 152159

Ion Ratio Lower Upper

105 100

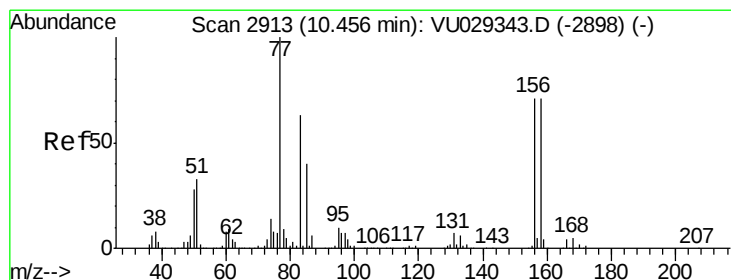
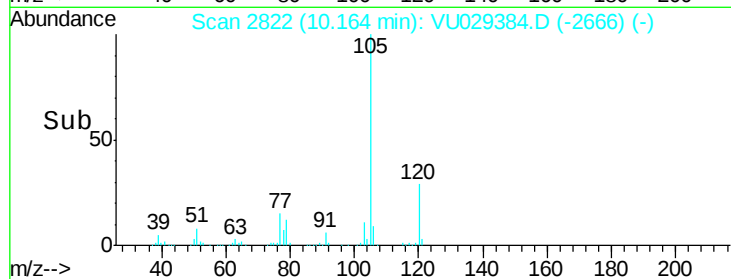
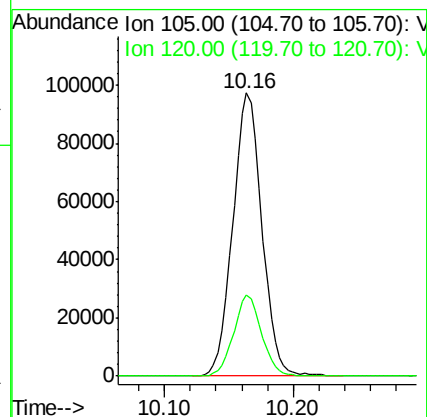
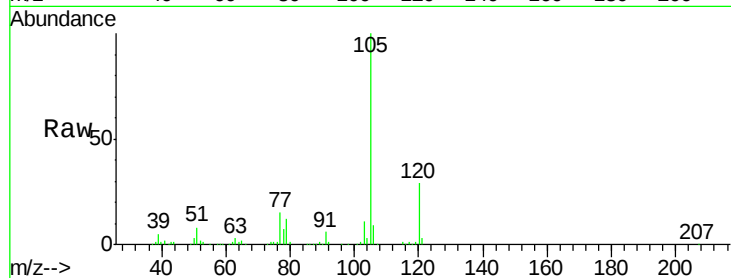
120 27.8 12.6 37.6

Manual Integrations

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#70

1,1,2,2-Tetrachloroethane

Concen: 2.086 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

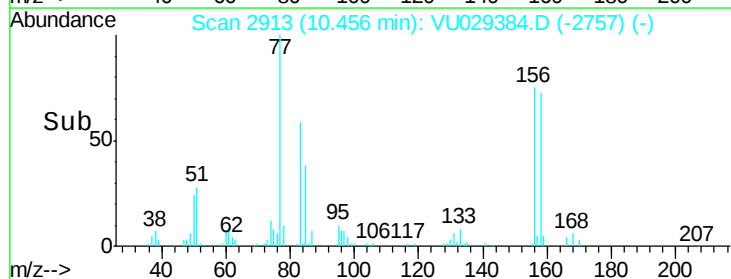
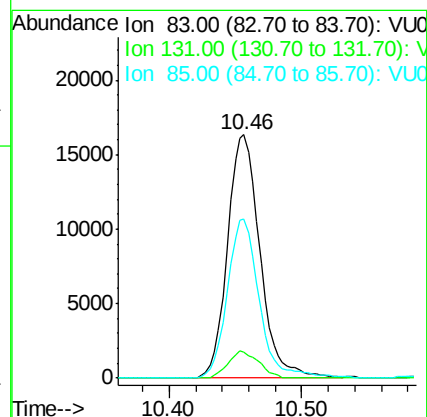
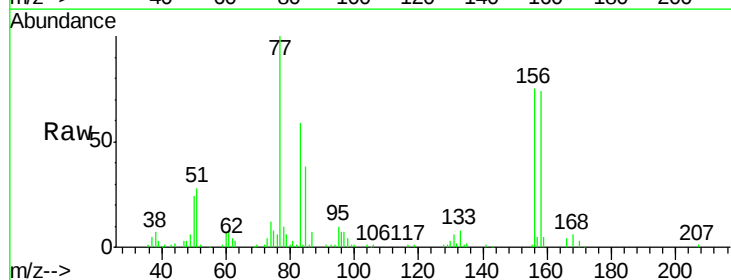
Tgt Ion: 83 Resp: 27762

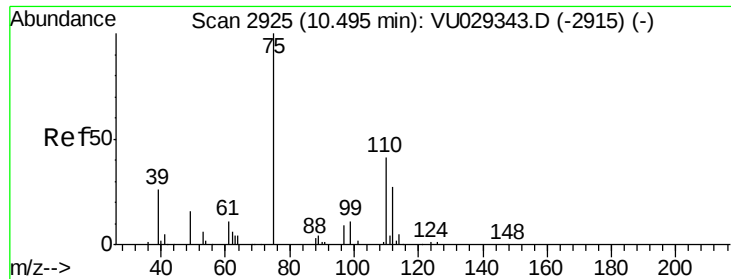
Ion Ratio Lower Upper

83 100

131 10.5 8.1 12.1

85 64.3 50.3 75.5





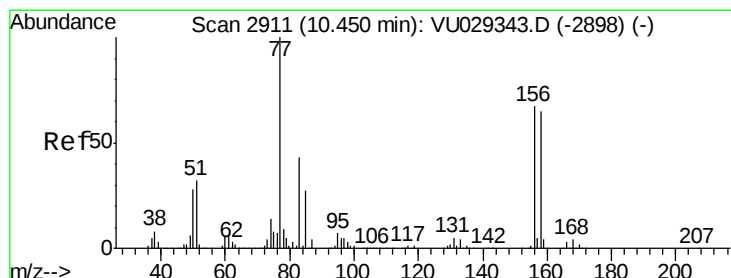
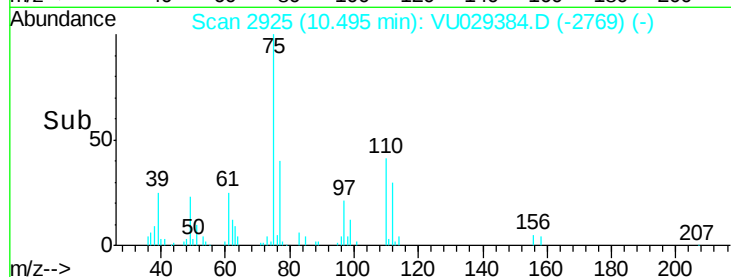
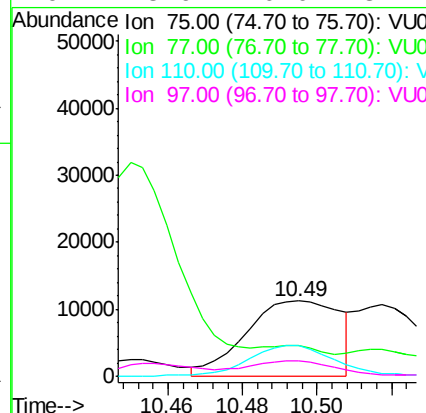
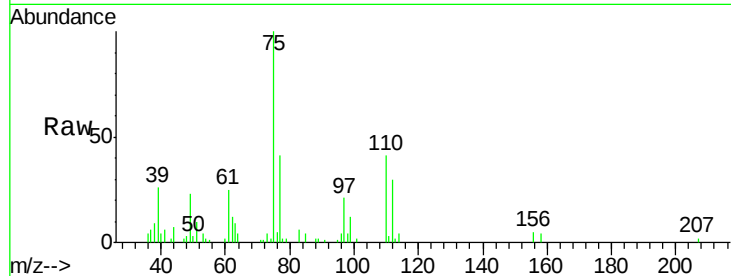
#71  
 1,2,3-Trichloropropane  
 Concen: 2.176 ug/l m  
 RT: 10.49 min Scan# 2925  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 0.0   |
| 110     | 37.2  | 0.0   | 63.6  |
| 97      | 18.9  | 0.0   | 31.4  |

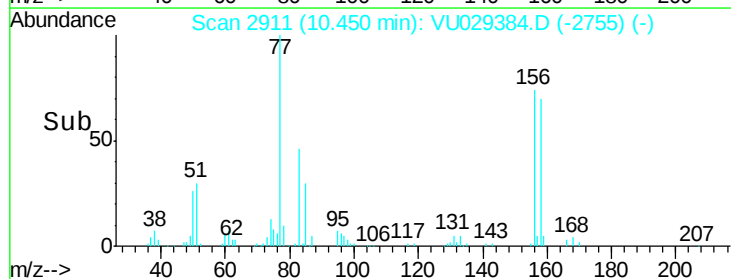
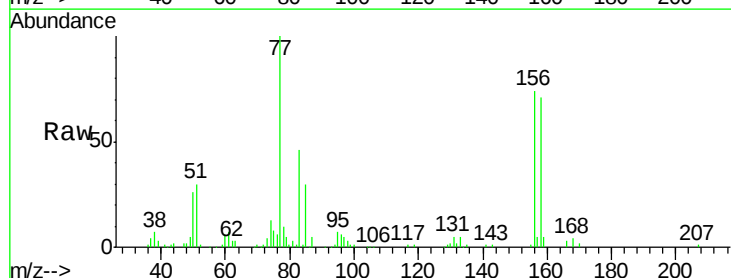
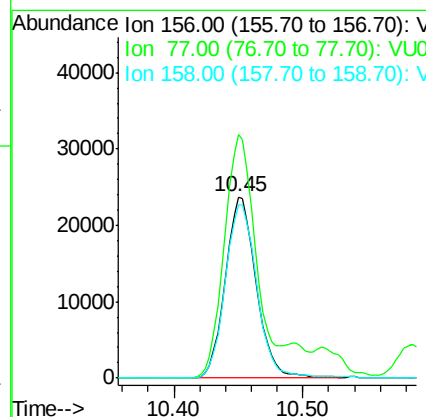
Manual Integrations  
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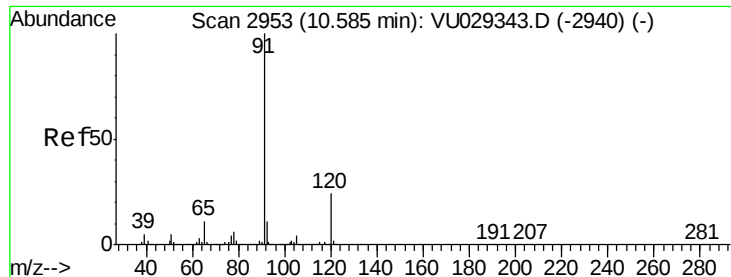
MMDadoda  
 2/18/2019 12:15:56 PM



#72  
 Bromobenzene  
 Concen: 2.256 ug/l  
 RT: 10.45 min Scan# 2911  
 Delta R.T. 0.00 min  
 Lab File: VU029384.D  
 Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 136.8 | 0.0   | 343.8 |
| 158     | 97.8  | 0.0   | 195.0 |





#73

n-propylbenzene

Concen: 2.196 ug/l

RT: 10.59 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion:120 Resp: 44163

Ion Ratio Lower Upper

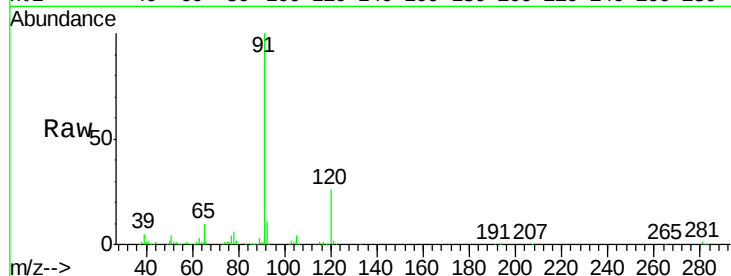
120 100

91 393.4 370.0 555.0

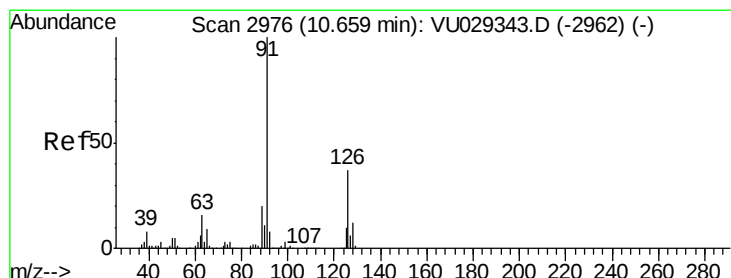
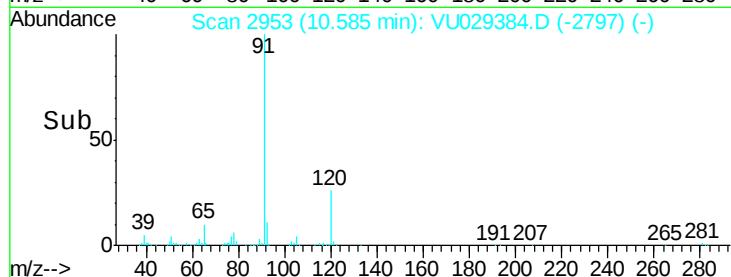
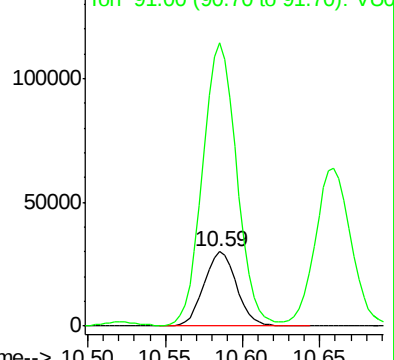
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Abundance Ion 120.00 (119.70 to 120.70): V



#74

2-Chlorotoluene

Concen: 2.168 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. 0.00 min

Lab File: VU029384.D

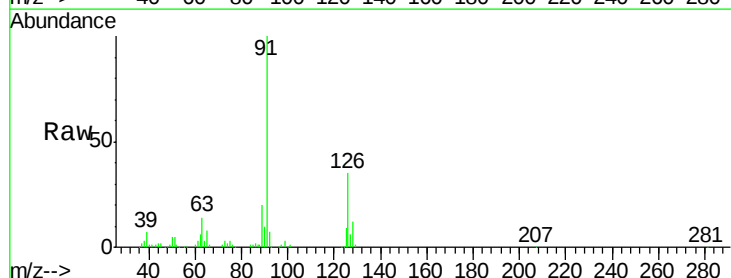
Acq: 08 Feb 2019 17:46

Tgt Ion:126 Resp: 37112

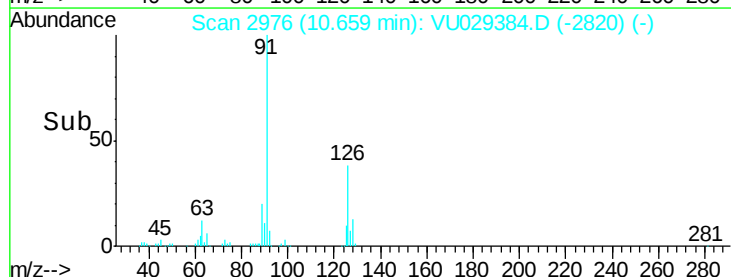
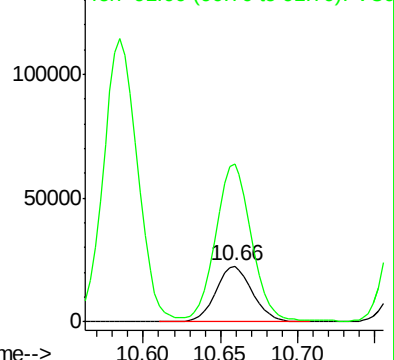
Ion Ratio Lower Upper

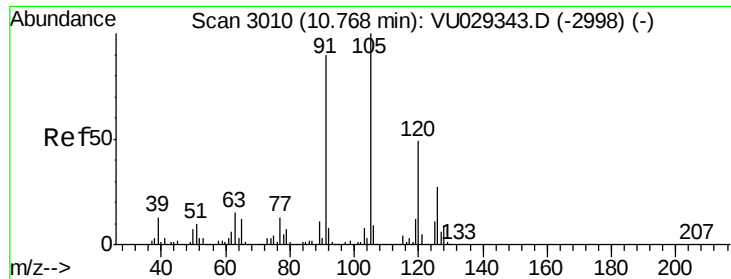
126 100

91 271.1 0.0 643.0



Abundance Ion 126.00 (125.70 to 126.70): V





#75

1,3,5-Trimethylbenzene

Concen: 2.032 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion:105 Resp: 126464

Ion Ratio Lower Upper

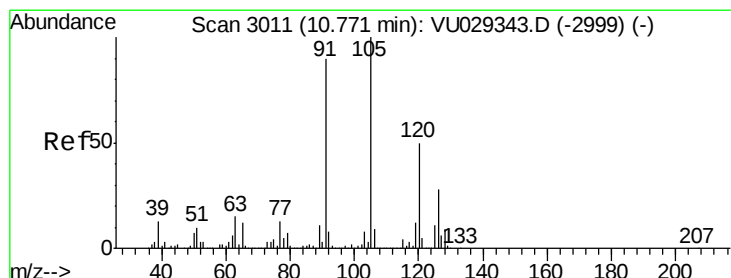
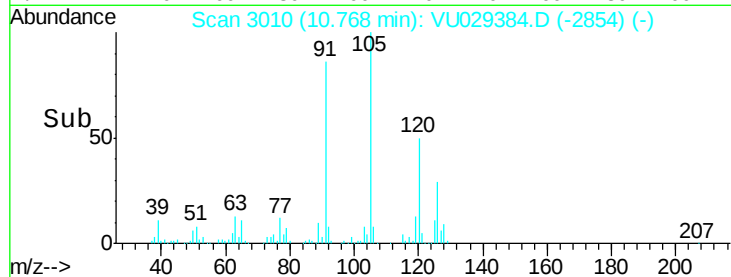
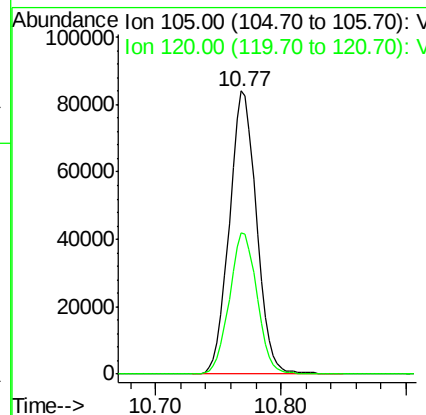
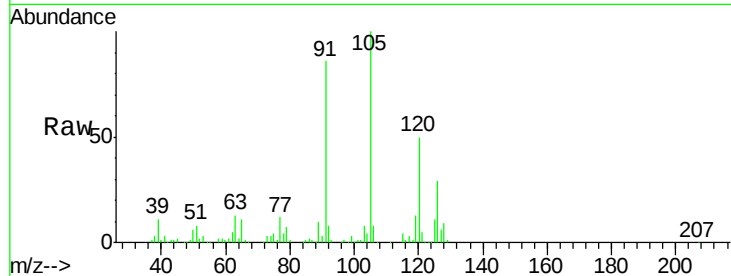
105 100

120 50.9 37.3 55.9

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#76

4-Chlorotoluene

Concen: 2.184 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029384.D

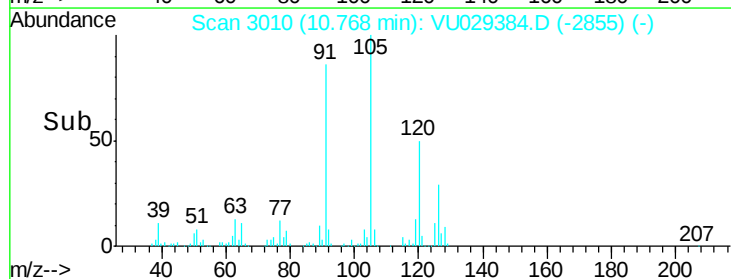
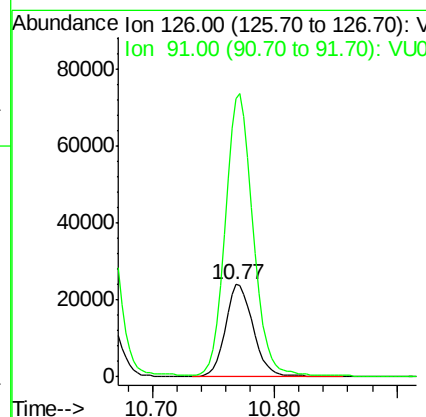
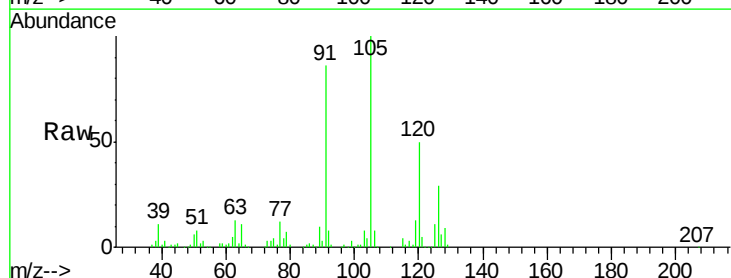
Acq: 08 Feb 2019 17:46

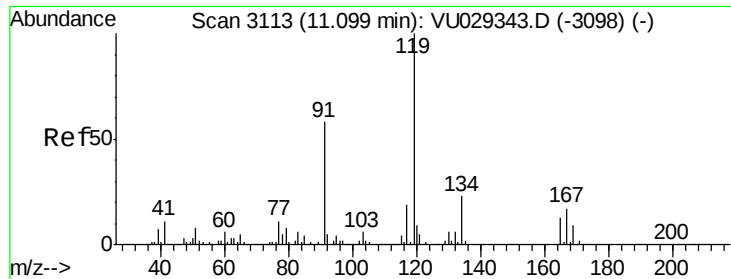
Tgt Ion:126 Resp: 38808

Ion Ratio Lower Upper

126 100

91 299.4 0.0 727.4





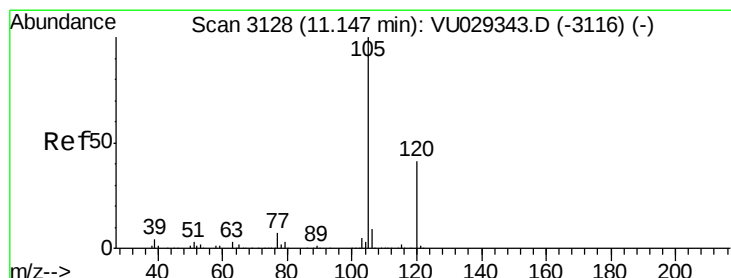
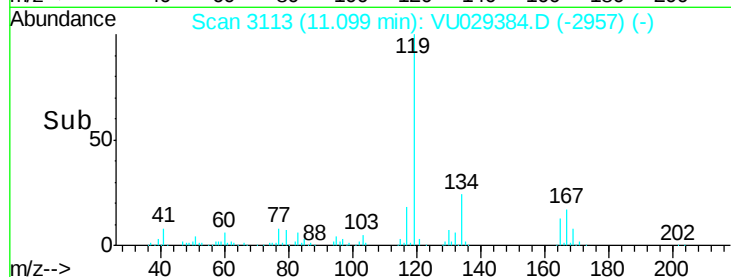
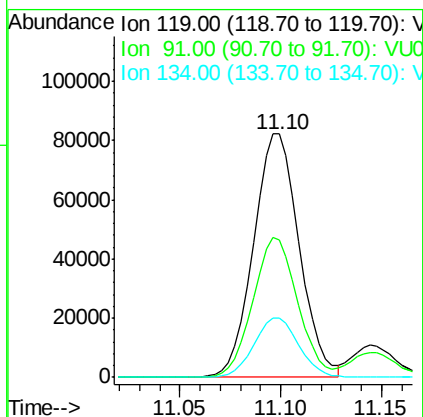
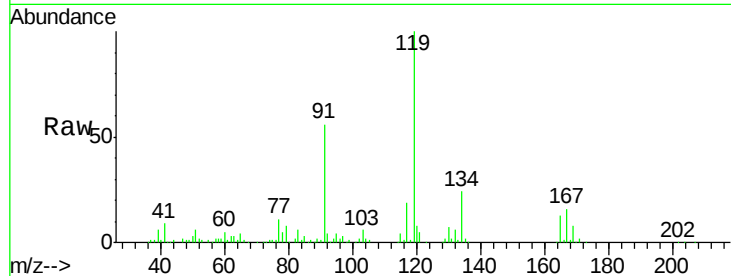
#77  
tert-Butylbenzene  
Concen: 2.115 ug/l  
RT: 11.10 min Scan# 3113  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampled :  
VU0208WBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 130107 |       |       |
| 91      | 56.5  |        | 32.2  | 96.6  |
| 134     | 24.0  |        | 17.6  | 26.4  |

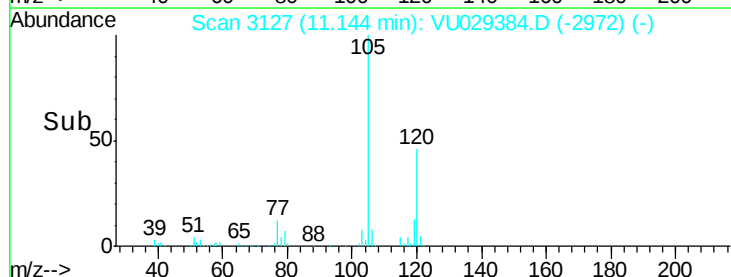
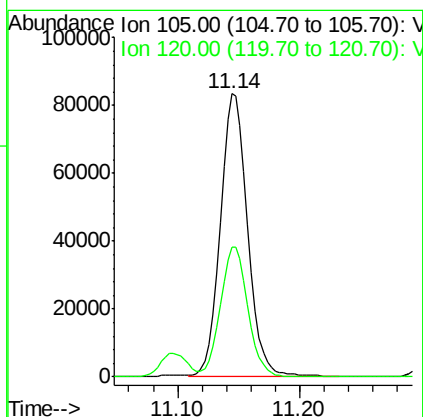
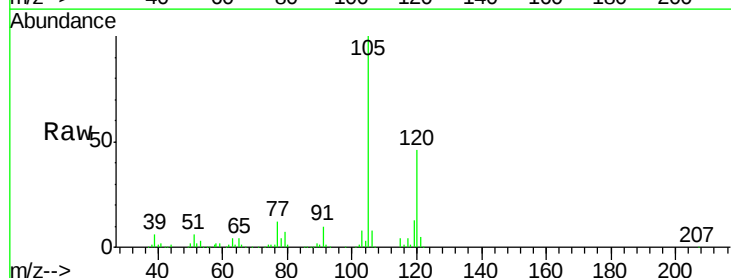
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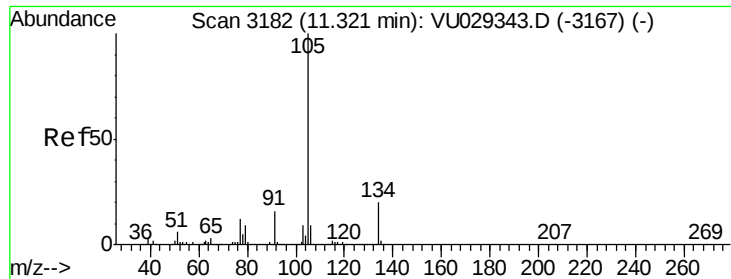
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#78  
1,2,4-Trimethylbenzene  
Concen: 2.062 ug/l  
RT: 11.14 min Scan# 3127  
Delta R.T. -0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 129899 |       |       |
| 120     | 46.2  |        | 21.4  | 64.3  |





#79

sec-Butylbenzene

Concen: 2.103 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion: 105 Resp: 169259

Ion Ratio Lower Upper

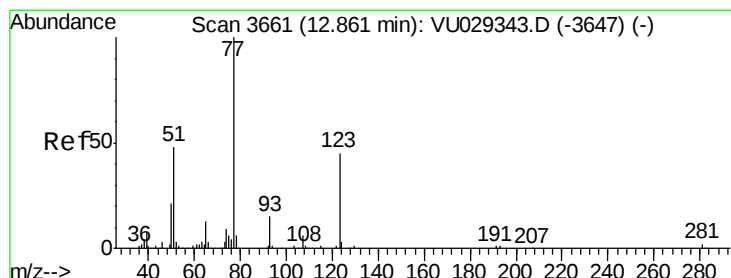
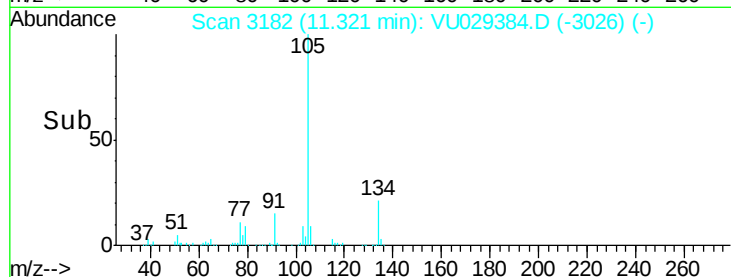
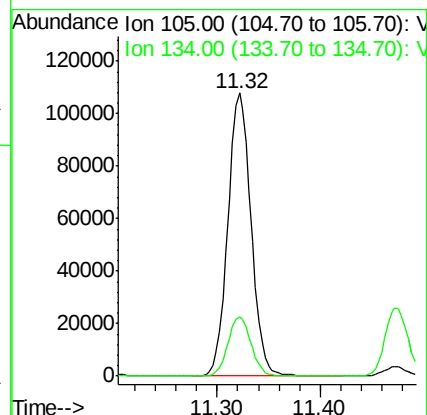
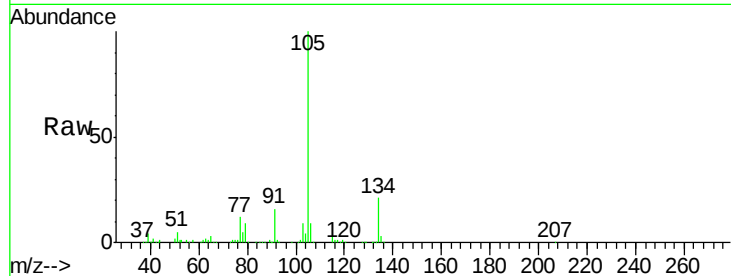
105 100

134 20.9 15.0 22.6

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#80

Nitrobenzene

Concen: 5.735 ug/l m

RT: 12.87 min Scan# 3664

Delta R.T. 0.01 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

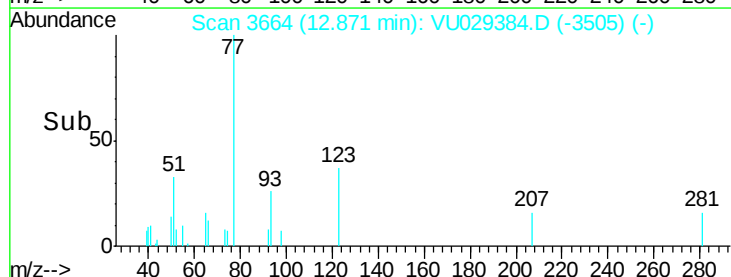
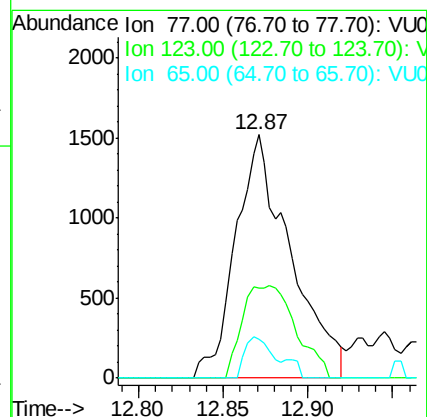
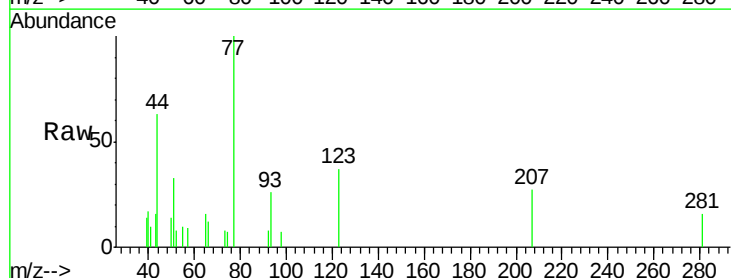
Tgt Ion: 77 Resp: 3401

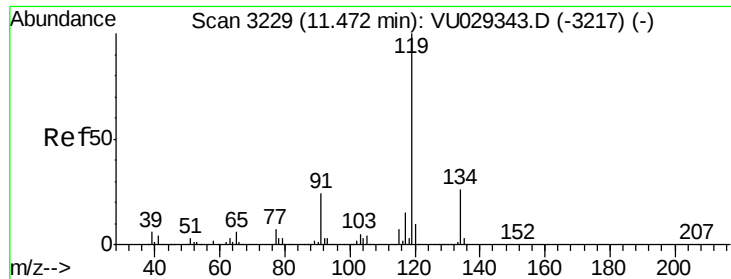
Ion Ratio Lower Upper

77 100

123 37.0 17.5 61.9

65 6.0 10.8 13.8#





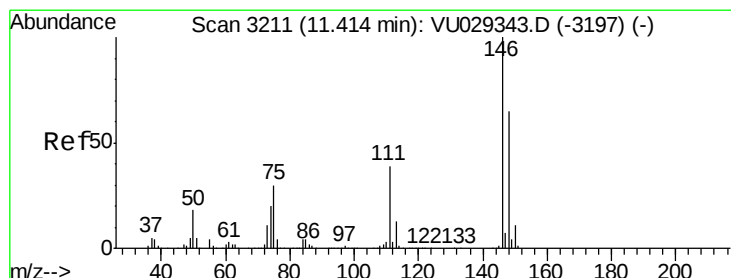
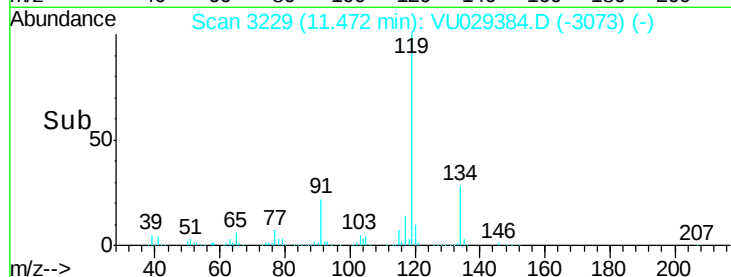
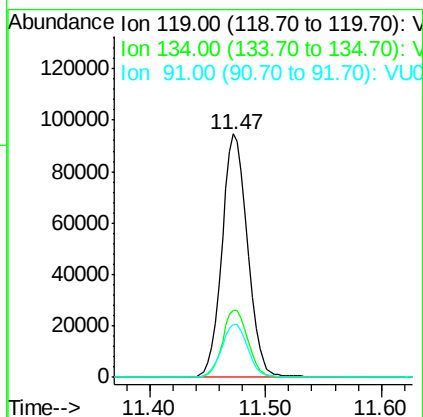
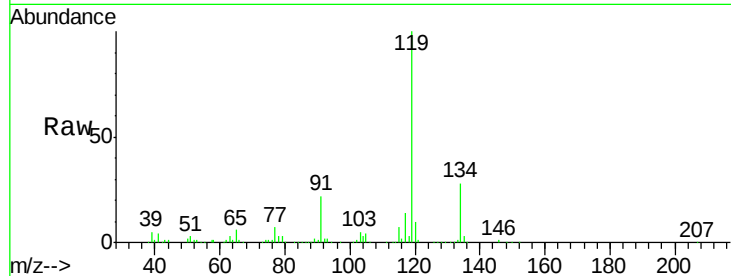
#81  
p-Isopropyltoluene  
Concen: 2.127 ug/l  
RT: 11.47 min Scan# 3229  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.6  | 19.8  | 29.6  |
| 91      | 22.8  | 21.5  | 32.3  |

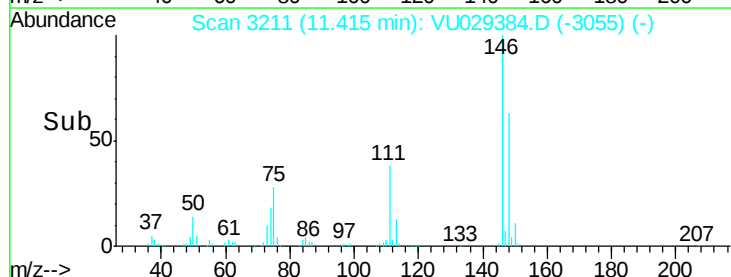
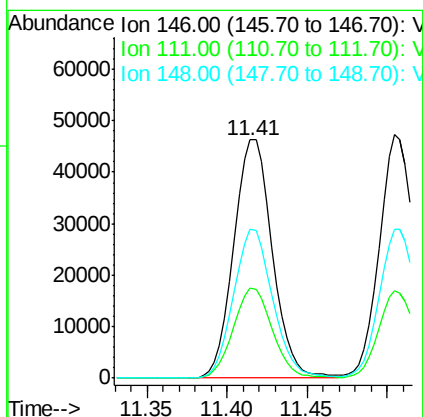
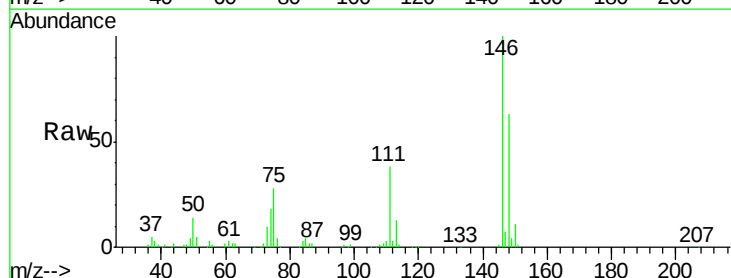
Manual Integrations  
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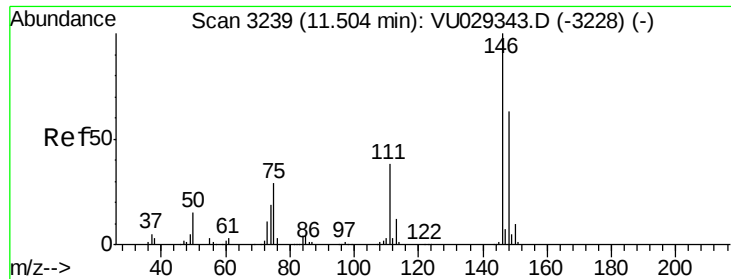
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#82  
1,3-Dichlorobenzene  
Concen: 2.215 ug/l  
RT: 11.41 min Scan# 3211  
Delta R.T. 0.00 min  
Lab File: VU029384.D  
Acq: 08 Feb 2019 17:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 34.1  | 51.1  |
| 148     | 63.4  | 52.3  | 78.5  |





#83

1,4-Dichlorobenzene

Concen: 2.239 ug/l

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

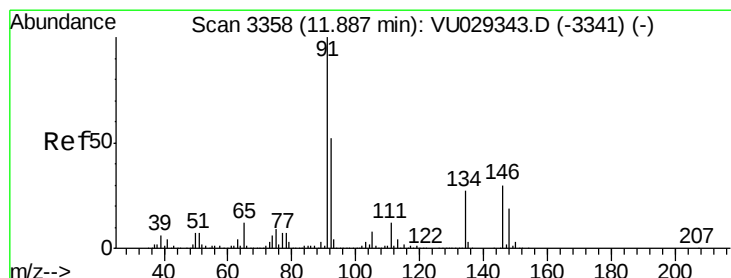
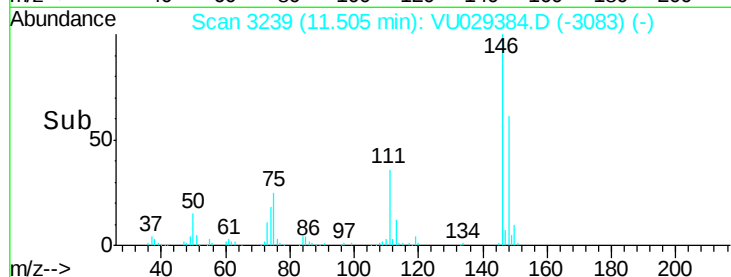
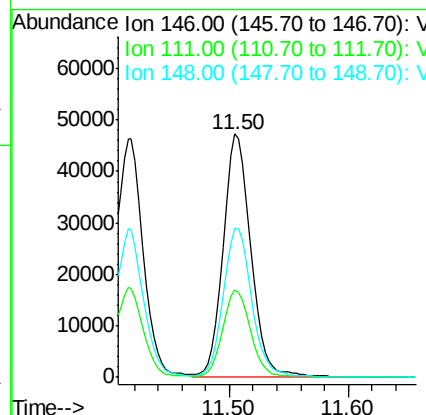
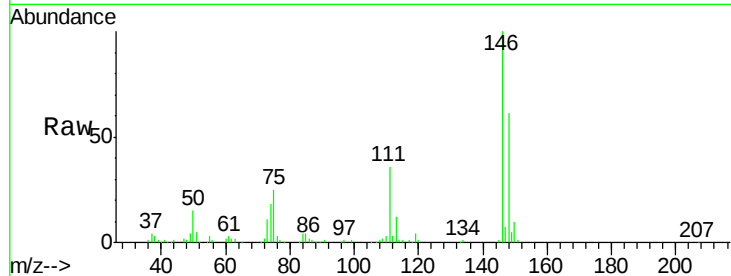
VU0208WBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 76560 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 35.1  | 32.9  | 49.3  |
| 148      | 62.6  | 51.8  | 77.6  |

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#84

n-Butylbenzene

Concen: 2.041 ug/l

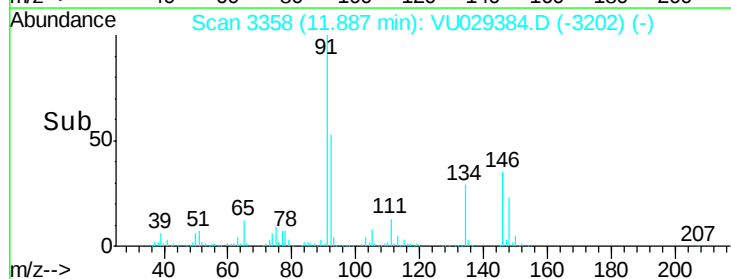
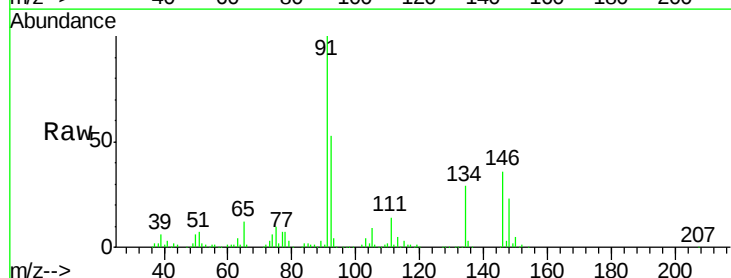
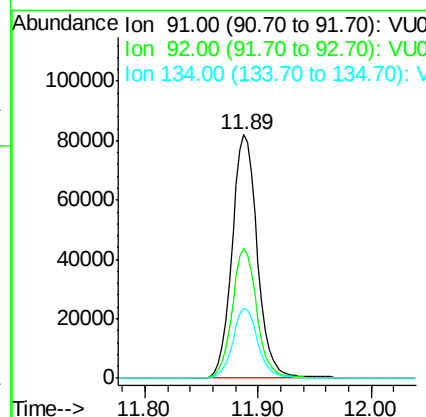
RT: 11.89 min Scan# 3358

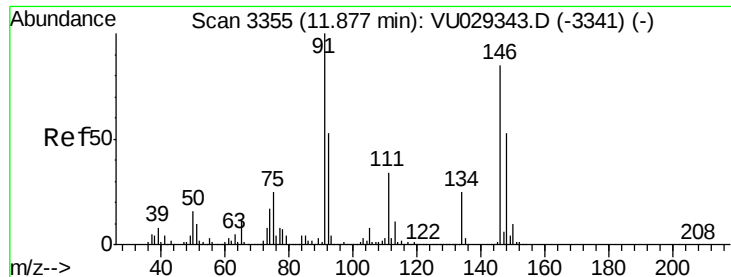
Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 127814 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 51.8  | 41.0  | 61.6   |
| 134      | 28.3  | 19.1  | 28.7   |





#85

1,2-Dichlorobenzene

Concen: 2.209 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

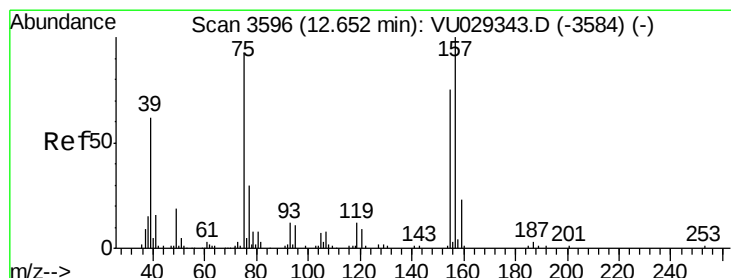
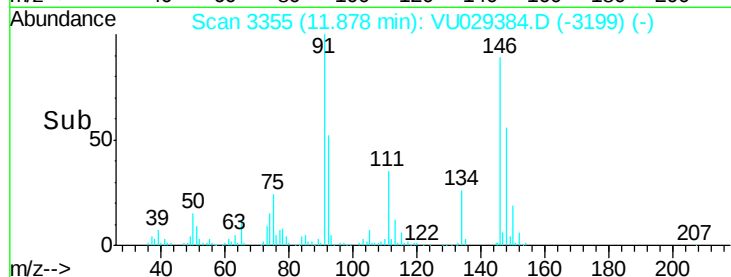
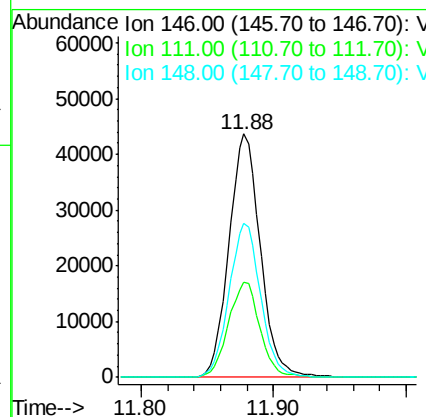
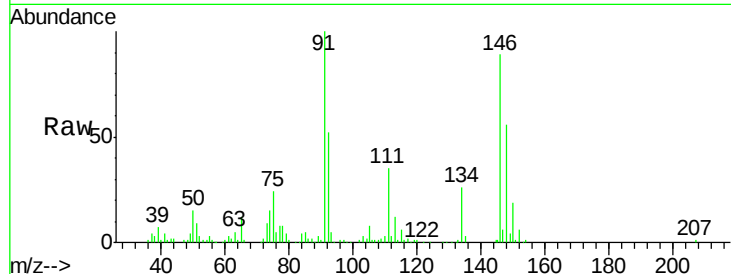
VU0208WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 71711 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 39.4  | 21.9  | 65.8  |
| 148       | 63.4  | 31.8  | 95.3  |

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#86

1,2-Dibromo-3-Chloropropane

Concen: 1.836 ug/l

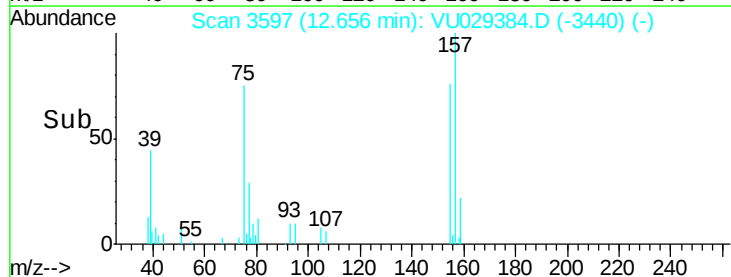
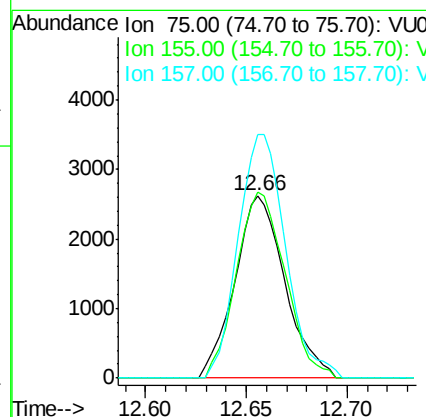
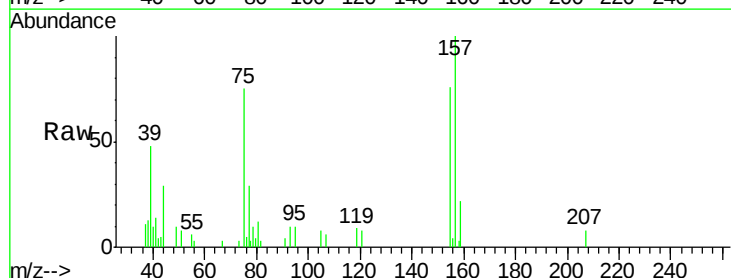
RT: 12.66 min Scan# 3597

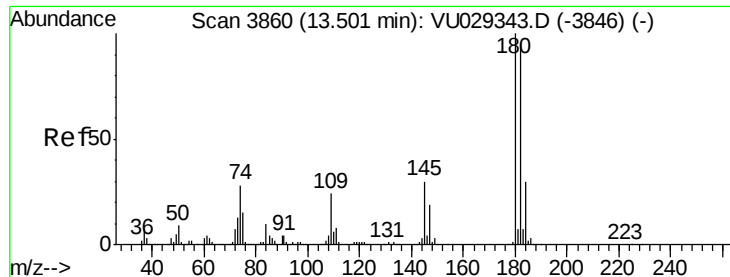
Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 4561   |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 155       | 99.1  | 53.8  | 80.8#  |
| 157       | 126.7 | 69.2  | 103.8# |





#87

1,2,4-Trichlorobenzene

Concen: 2.161 ug/l

RT: 13.50 min Scan# 3860

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBSD01

Tot Ion:180 Resp: 49260

Ion Ratio Lower Upper

180 100

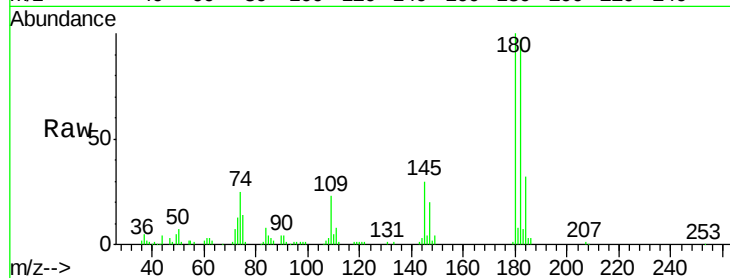
182 96.9 76.6 114.8

145 29.5 24.6 36.8

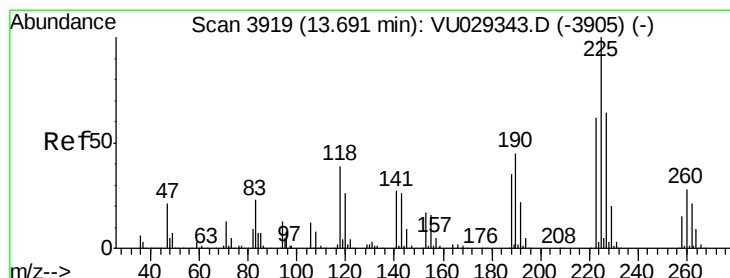
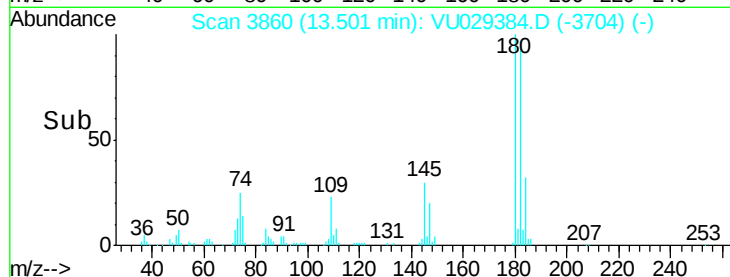
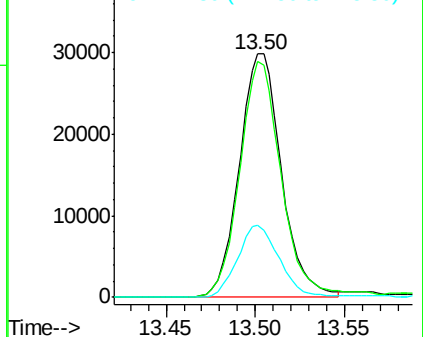
Manual Integrations  
APPROVED

MMDadoda

2/18/2019 12:15:56 PM



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: 2.314 ug/l

RT: 13.69 min Scan# 3919

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

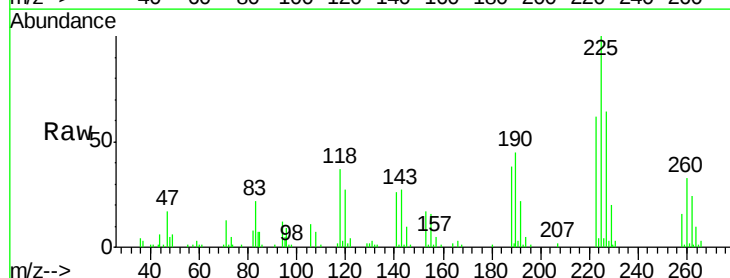
Tgt Ion:225 Resp: 30550

Ion Ratio Lower Upper

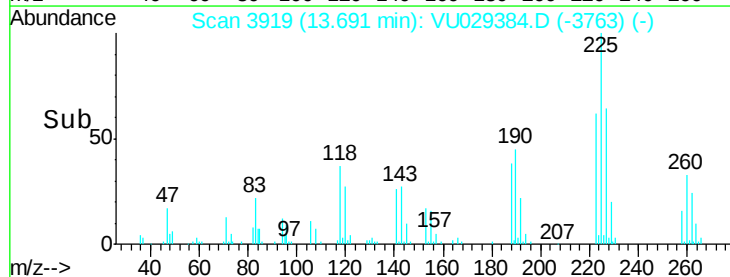
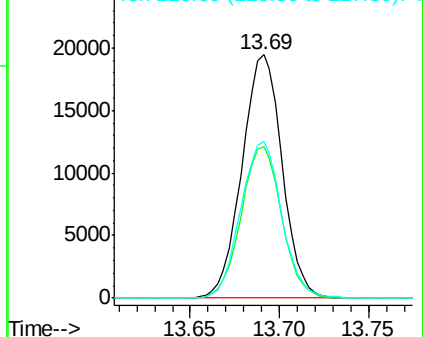
225 100

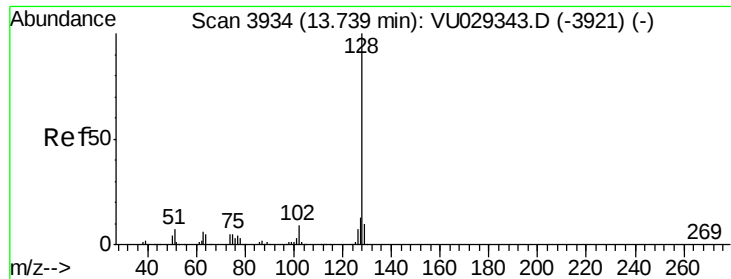
223 62.4 49.5 74.3

227 65.6 50.4 75.6



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: 2.216 ug/l

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

Instrument :

MSVOA\_U

ClientSampleId :

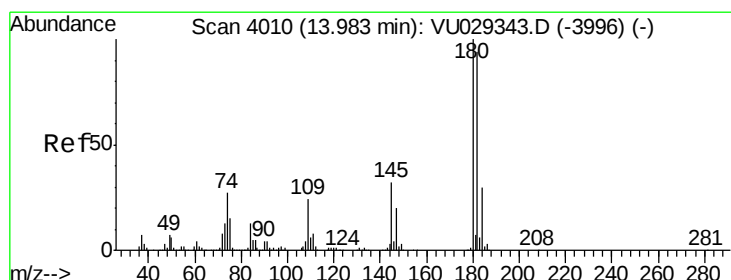
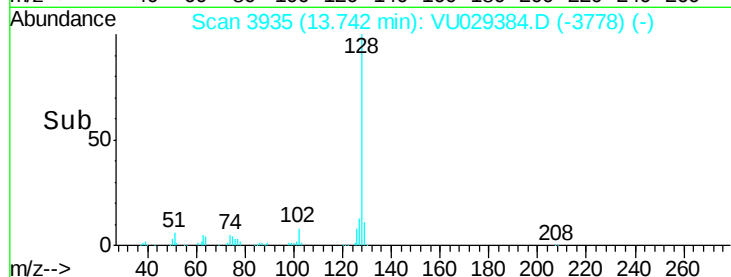
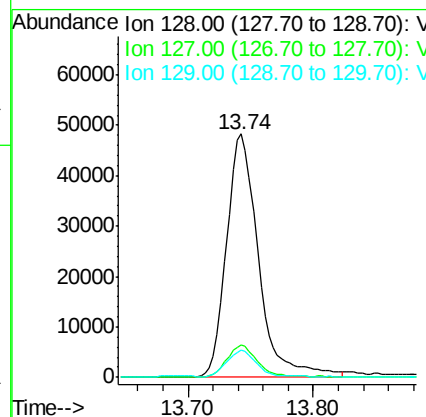
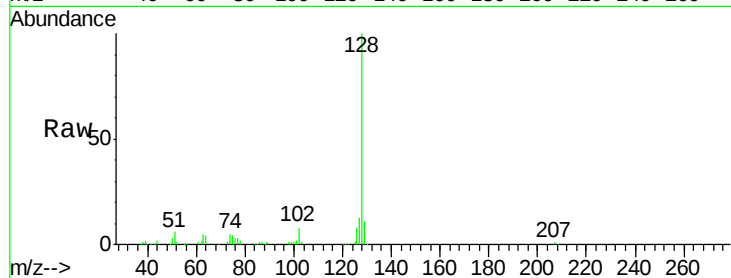
VU0208WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 85693 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.8  | 10.7  | 16.1  |
| 129       | 9.6   | 8.2   | 12.4  |

Manual Integrations  
APPROVED

MMDadoda

2/18/2019 12:15:56 PM



#90

1,2,3-Trichlorobenzene

Concen: 2.399 ug/l

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU029384.D

Acq: 08 Feb 2019 17:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 49995 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 96.5  | 78.0  | 117.0 |
| 145       | 28.5  | 26.6  | 39.8  |

