

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU030719\  
 Data File : VU029836.D  
 Acq On : 06 Mar 2019 13:03  
 Operator : JC/SP  
 Sample : VSTDICV010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

Manual Integrations  
 APPROVED

MMDadoda  
 3/11/2019 4:50:23 PM

Quant Time: Mar 08 01:36:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U030719DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Mar 08 00:30:10 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|---------|---------|----------|
| -----                         | ----- | ----- | -----    | -----   | -----   | -----    |
| 1) Fluorobenzene              | 5.74  | 96    | 68337    | 1.00    | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |         |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 24748    | 1.01    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 101.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.85 | 152   | 27598    | 0.97    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 97.00%  |          |
| Target Compounds              |       |       |          |         |         |          |
|                               |       |       |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.20  | 85    | 117494   | 5.138   | ug/l    | 98       |
| 3) Chloromethane              | 1.33  | 50    | 153368   | 7.532   | ug/l    | 100      |
| 4) Vinyl Chloride             | 1.40  | 62    | 187871   | 8.202   | ug/l    | 99       |
| 5) Bromomethane               | 1.62  | 94    | 133950   | 8.563   | ug/l    | 97       |
| 6) Chloroethane               | 1.69  | 64    | 123457   | 8.988   | ug/l    | 95       |
| 7) Trichlorofluoromethane     | 1.88  | 101   | 280706   | 8.993   | ug/l    | 96       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101   | 183843   | 10.124  | ug/l    | 99       |
| 9) 1,1-Dichloroethene         | 2.28  | 96    | 178847   | 10.062  | ug/l    | 99       |
| 10) Iodomethane               | 2.41  | 142   | 230688   | 11.519  | ug/l    | 98       |
| 11) Allyl Chloride            | 2.59  | 41    | 245786   | 9.836   | ug/l    | 100      |
| 12) Acrylonitrile             | 2.93  | 53    | 187399   | 48.351  | ug/l    | 99       |
| 13) Acetone                   | 2.32  | 43    | 209041   | 65.121  | ug/l    | 98       |
| 14) Carbon Disulfide          | 2.47  | 76    | 537441   | 9.336   | ug/l    | 99       |
| 15) Methylene Chloride        | 2.69  | 84    | 195830   | 9.181   | ug/l    | 100      |
| 16) trans-1,2-Dichloroethene  | 2.97  | 96    | 197618   | 9.842   | ug/l    | 99       |
| 17) 1,1-Dichloroethane        | 3.44  | 63    | 343556   | 10.226  | ug/l    | 99       |
| 18) 2-Butanone                | 4.27  | 43    | 255971   | 58.676  | ug/l    | 99       |
| 19) Cyclohexane               | 4.98  | 56    | 289675m  | 11.105  | ug/l    |          |
| 20) Methylcyclohexane         | 6.41  | 83    | 341408   | 11.237  | ug/l    | 100      |
| 21) 2,2-Dichloropropane       | 4.22  | 77    | 283110   | 10.309  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96    | 216881   | 10.191  | ug/l    | 98       |
| 23) Diethyl Ether             | 2.10  | 59    | 129675   | 9.731   | ug/l    | 99       |
| 24) tert-Butyl Alcohol        | 2.83  | 59    | 63555    | 46.233  | ug/l    | 98       |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73    | 451899   | 10.096  | ug/l    | 100      |
| 26) Bromochloromethane        | 4.54  | 128   | 91149    | 9.648   | ug/l    | 100      |
| 27) Chloroform                | 4.67  | 83    | 346801   | 10.194  | ug/l    | 99       |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97    | 299947   | 10.399  | ug/l    | 100      |
| 29) 1,1-Dichloropropene       | 5.13  | 75    | 265781   | 10.369  | ug/l    | 99       |
| 30) Carbon Tetrachloride      | 5.13  | 117   | 266233   | 10.580  | ug/l    | 97       |
| 31) Isopropyl Ether           | 3.57  | 45    | 521806   | 11.261  | ug/l #  | 1        |
| 34) Propionitrile             | 4.32  | 54    | 138757   | 106.927 | ug/l    | 97       |
| 35) Benzene                   | 5.38  | 78    | 787770   | 10.433  | ug/l    | 99       |
| 36) 1,2-Dichloroethane        | 5.40  | 62    | 207643   | 10.068  | ug/l    | 100      |
| 37) Trichloroethene           | 6.18  | 130   | 226299   | 10.265  | ug/l    | 97       |
| 38) 1,2-Dichloropropane       | 6.43  | 63    | 198167   | 10.368  | ug/l    | 100      |
| 39) Methacrylonitrile         | 4.55  | 41    | 56182    | 10.292  | ug/l    | 99       |
| 40) Methyl acrylate           | 4.42  | 55    | 90406    | 10.478  | ug/l #  | 97       |
| 41) Tetrahydrofuran           | 4.64  | 42    | 144176   | 50.498  | ug/l    | 99       |
| 42) 1-Chlorobutane            | 5.06  | 56    | 343539   | 10.490  | ug/l    | 99       |
| 43) Dibromomethane            | 6.56  | 93    | 104597   | 10.559  | ug/l    | 99       |
| 44) Bromodichloromethane      | 6.75  | 83    | 250008   | 10.276  | ug/l    | 99       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU030719\  
 Data File : VU029836.D  
 Acq On : 06 Mar 2019 13:03  
 Operator : JC/SP  
 Sample : VSTDICV010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

Manual Integrations  
 APPROVED

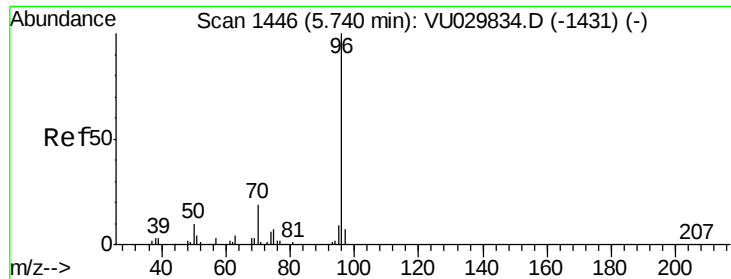
MMDadoda  
 3/11/2019 4:50:23 PM

Quant Time: Mar 08 01:36:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U030719DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Mar 08 00:30:10 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 45) 4-Methyl-2-Pentanone       | 7.46  | 43   | 543541   | 52.609 | ug/l   | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.51 | 75   | 42060m   | 9.737  | ug/l   |          |
| 47) Methyl methacrylate        | 6.62  | 69   | 97915    | 11.518 | ug/l   | 97       |
| 48) Ethyl methacrylate         | 8.02  | 69   | 186197   | 11.432 | ug/l   | 99       |
| 49) Toluene                    | 7.63  | 92   | 508312   | 10.961 | ug/l   | 99       |
| 50) t-1,3-Dichloropropene      | 7.87  | 75   | 245475   | 11.513 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene    | 7.26  | 75   | 295008   | 11.177 | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane      | 8.06  | 97   | 152889   | 10.427 | ug/l   | 98       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 252075   | 10.481 | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.36  | 43   | 417868   | 58.236 | ug/l   | 100      |
| 55) Dibromochloromethane       | 8.47  | 129  | 184623   | 10.609 | ug/l   | 99       |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 148121   | 10.653 | ug/l   | 99       |
| 58) Tetrachloroethene          | 8.22  | 164  | 216656   | 9.621  | ug/l   | 99       |
| 59) Chlorobenzene              | 9.12  | 112  | 574526   | 10.780 | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 201601   | 10.545 | ug/l   | 99       |
| 61) Pentachloroethane          | 11.10 | 117  | 156640   | 11.769 | ug/l   | 96       |
| 62) Hexachloroethane           | 12.14 | 117  | 163159   | 11.652 | ug/l   | 98       |
| 63) Ethyl Benzene              | 9.25  | 91   | 981003   | 11.237 | ug/l   | 100      |
| 64) m/p-Xylenes                | 9.37  | 106  | 795966   | 23.063 | ug/l   | 100      |
| 65) o-Xylene                   | 9.77  | 106  | 380619   | 11.483 | ug/l   | 100      |
| 66) Styrene                    | 9.79  | 104  | 614286   | 11.155 | ug/l   | 100      |
| 67) Bromoform                  | 9.95  | 173  | 111844   | 10.942 | ug/l   | 99       |
| 69) Isopropylbenzene           | 10.16 | 105  | 1019979  | 11.604 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 185052   | 10.348 | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 134837m  | 10.145 | ug/l   |          |
| 72) Bromobenzene               | 10.45 | 156  | 255635   | 10.988 | ug/l   | 99       |
| 73) n-propylbenzene            | 10.58 | 120  | 288955   | 11.694 | ug/l   | 97       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 240184   | 10.958 | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 863496   | 11.662 | ug/l   | 100      |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 250061   | 11.188 | ug/l   | 100      |
| 77) tert-Butylbenzene          | 11.10 | 119  | 847930   | 11.574 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene     | 11.14 | 105  | 876735   | 11.717 | ug/l   | 100      |
| 79) sec-Butylbenzene           | 11.32 | 105  | 1088466  | 11.210 | ug/l   | 100      |
| 80) Nitrobenzene               | 12.86 | 77   | 3487     | 10.741 | ug/l # | 86       |
| 81) p-Isopropyltoluene         | 11.47 | 119  | 958703   | 11.794 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene        | 11.41 | 146  | 495909   | 10.763 | ug/l   | 100      |
| 83) 1,4-Dichlorobenzene        | 11.50 | 146  | 489867   | 10.880 | ug/l   | 100      |
| 84) n-Butylbenzene             | 11.89 | 91   | 867949   | 11.719 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene        | 11.87 | 146  | 462062   | 10.635 | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.65 | 75   | 27676    | 10.839 | ug/l   | 92       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 340006   | 12.220 | ug/l   | 98       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 194950   | 11.123 | ug/l   | 99       |
| 89) Naphthalene                | 13.74 | 128  | 584797   | 10.817 | ug/l   | 100      |
| 90) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 306467   | 11.724 | ug/l   | 98       |

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





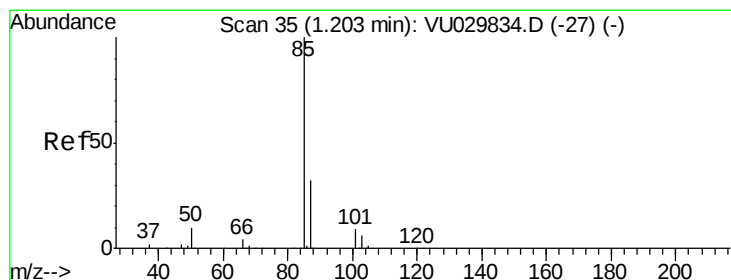
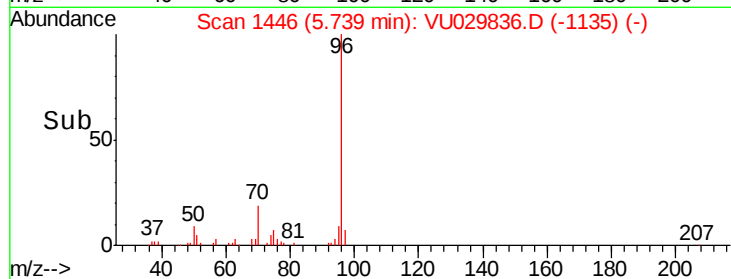
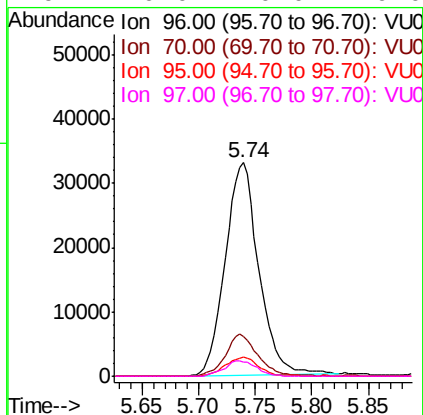
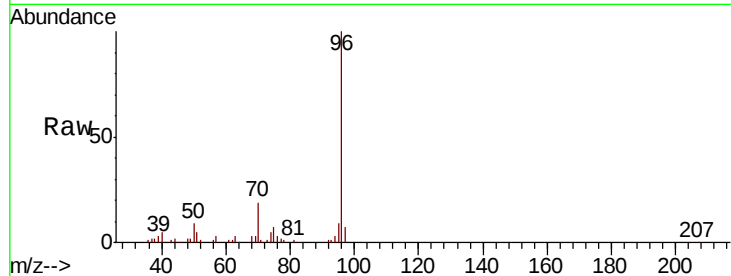
#1  
 Fluorobenzene  
 Concen: 1.000 ug/l  
 RT: 5.74 min Scan# 1446  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 70      | 18.9  | 14.4  | 21.6  |
| 95      | 9.0   | 7.0   | 10.6  |
| 97      | 0.0   | 0.0   | 0.0   |

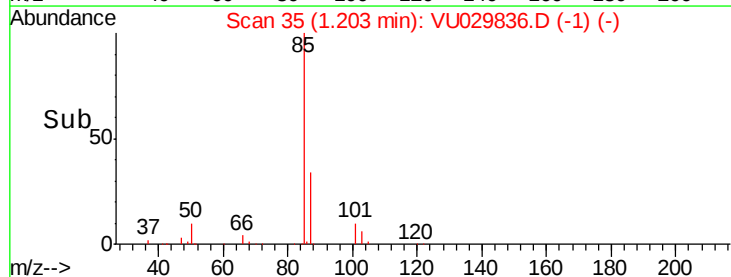
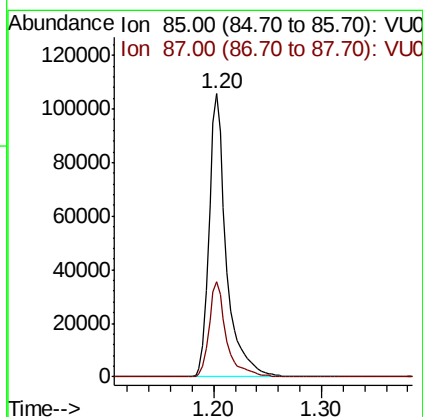
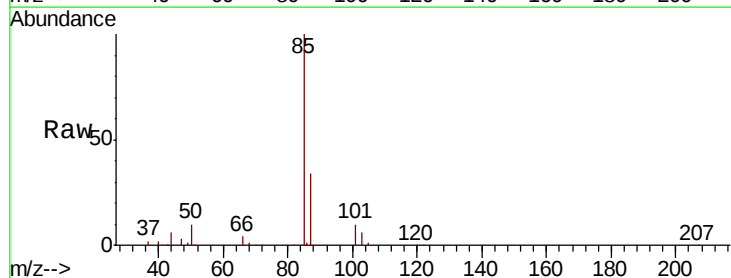
Manual Integrations  
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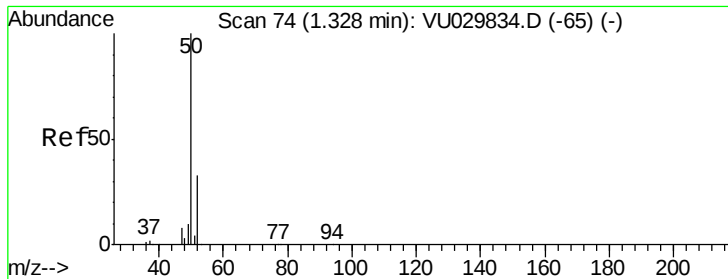
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#2  
 Dichlorodifluoromethane  
 Concen: 5.138 ug/l  
 RT: 1.20 min Scan# 35  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 33.8  | 16.2  | 48.6  |





#3

Chloromethane

Concen: 7.532 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 50 Resp: 153368

Ion Ratio Lower Upper

50 100

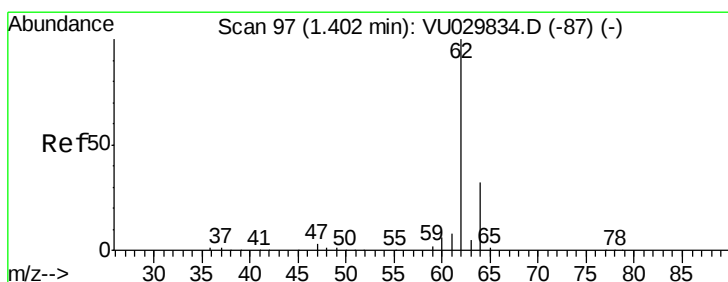
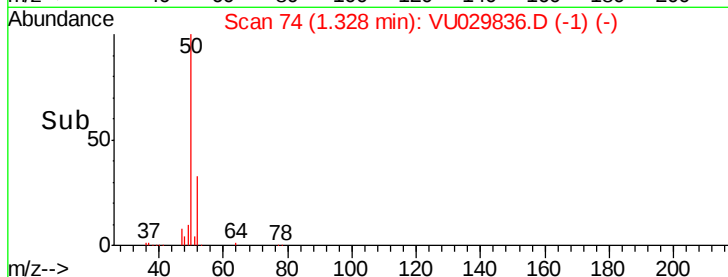
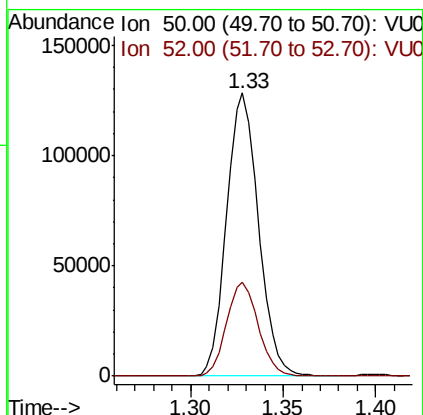
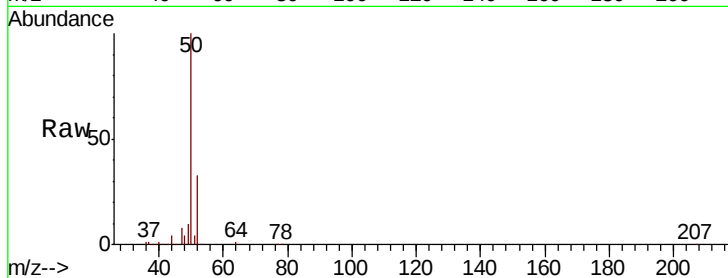
52 33.1 26.5 39.7

Manual Integrations

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3/11/2019 4:50:23 PM



#4

Vinyl Chloride

Concen: 8.202 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU029836.D

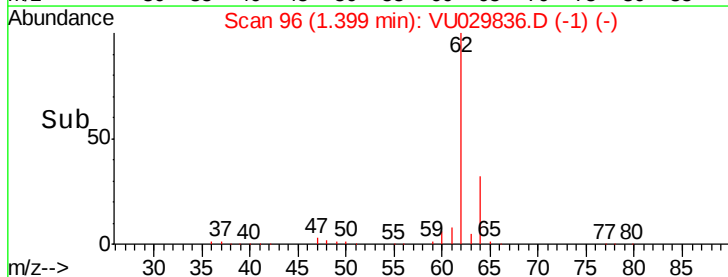
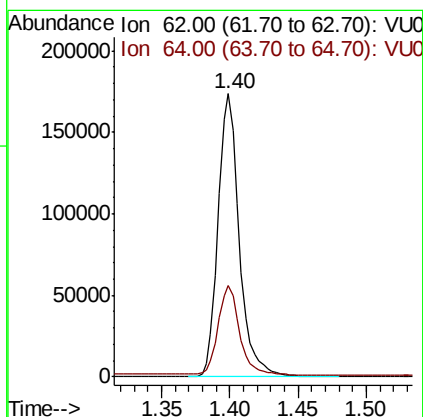
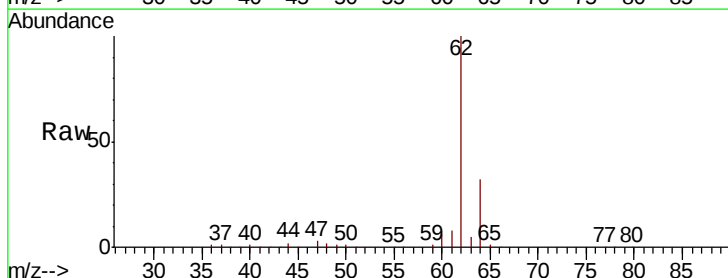
Acq: 06 Mar 2019 13:03

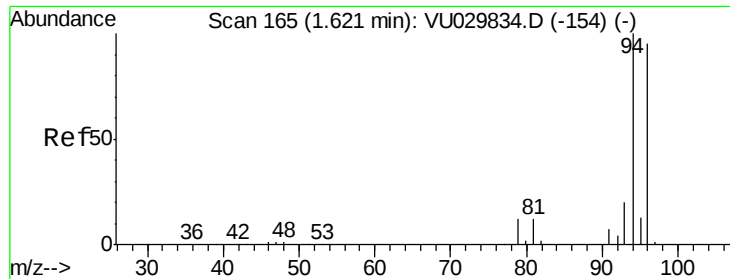
Tgt Ion: 62 Resp: 187871

Ion Ratio Lower Upper

62 100

64 31.4 25.7 38.5





#5

Bromomethane

Concen: 8.563 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 94 Resp: 133950

Ion Ratio Lower Upper

94 100

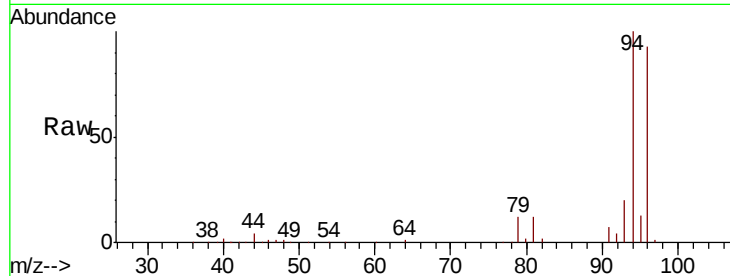
96 92.8 76.4 114.6

Manual Integrations

APPROVED

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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

120000

100000

80000

60000

40000

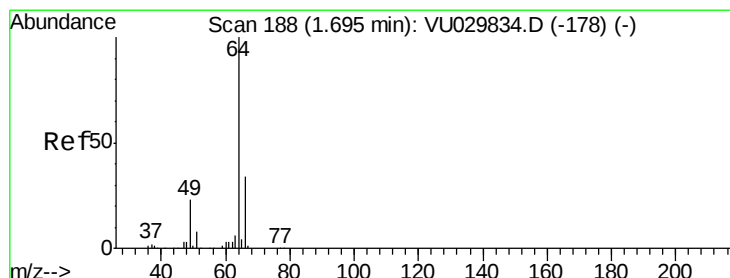
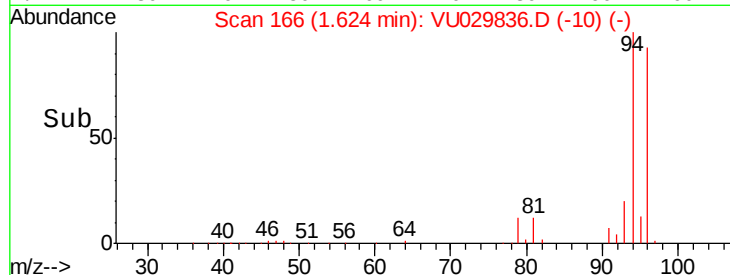
20000

0

1.62

1.55 1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 8.988 ug/l

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029836.D

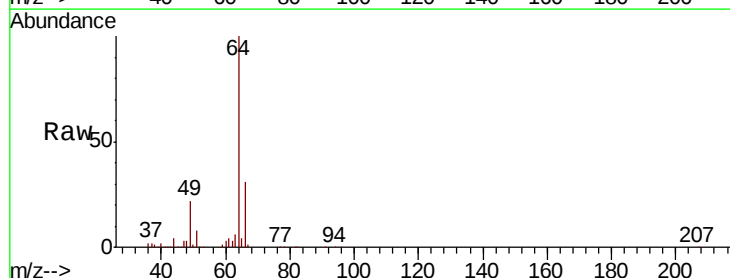
Acq: 06 Mar 2019 13:03

Tgt Ion: 64 Resp: 123457

Ion Ratio Lower Upper

64 100

66 31.0 27.3 40.9



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

100000

80000

60000

40000

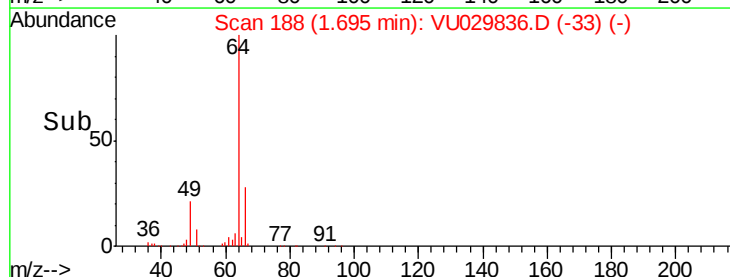
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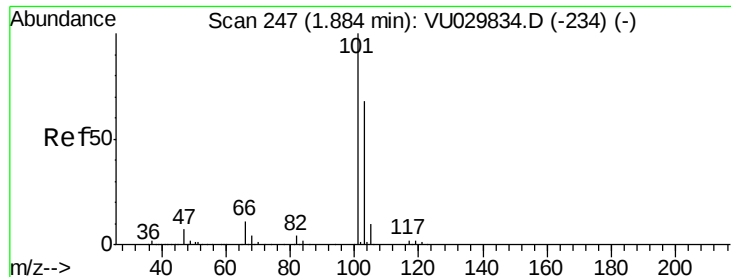
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1.69

1.65 1.70 1.75

Time-->





#7

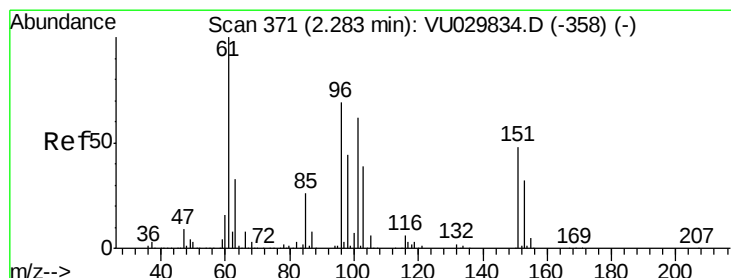
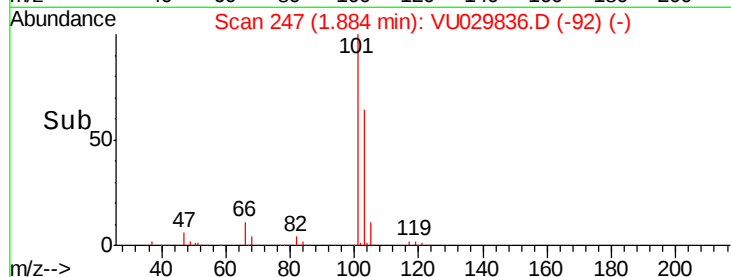
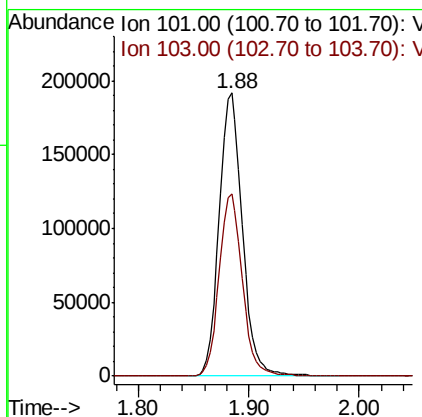
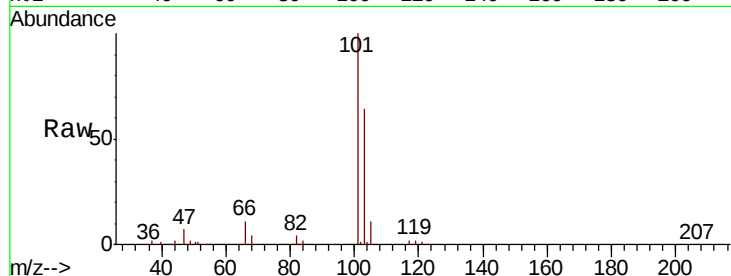
Trichlorofluoromethane  
 Concen: 8.993 ug/l  
 RT: 1.88 min Scan# 247  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 280706 |       |       |
| 103     | 64.2  | 54.2   | 81.2  |       |

Manual Integrations  
 APPROVED

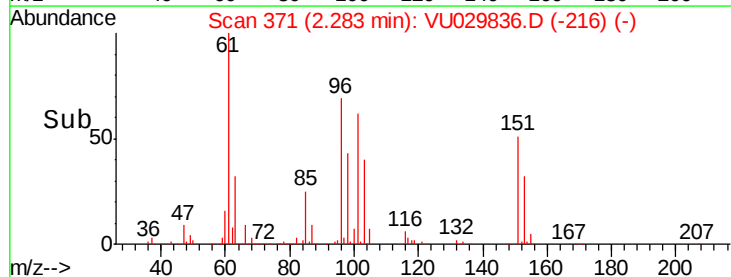
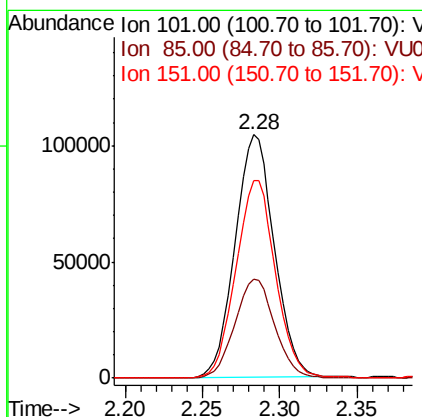
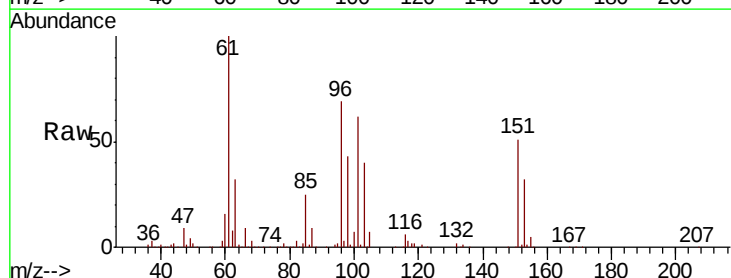
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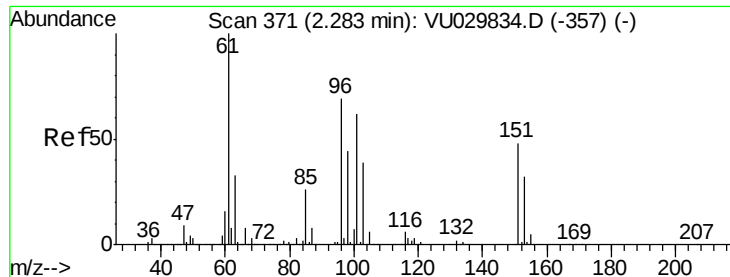


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 10.124 ug/l  
 RT: 2.28 min Scan# 371  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 183843 |       |       |
| 85      | 41.2  | 33.4   | 50.0  |       |
| 151     | 81.4  | 64.6   | 97.0  |       |





#9

1,1-Dichloroethene

Concen: 10.062 ug/l

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

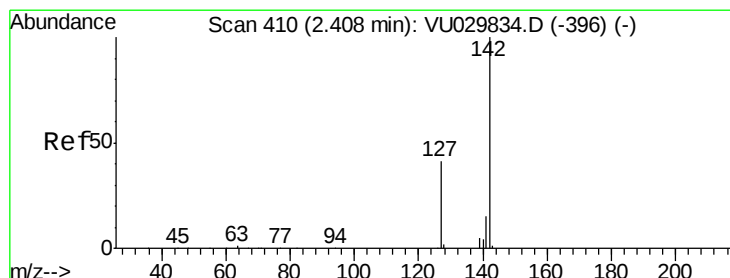
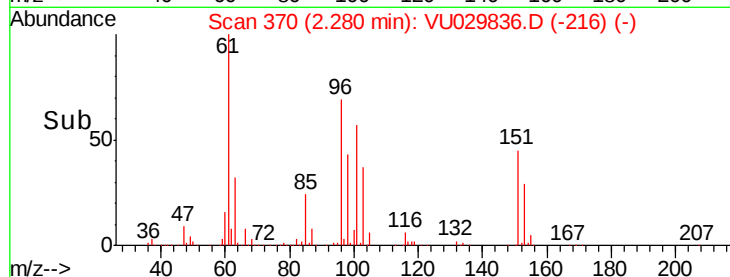
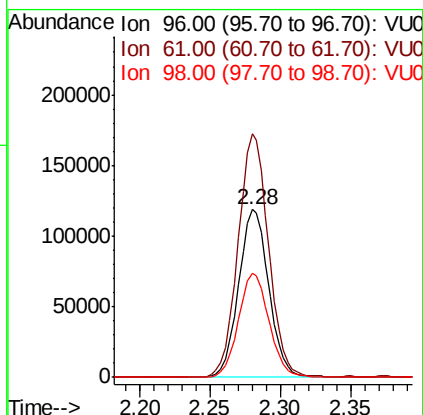
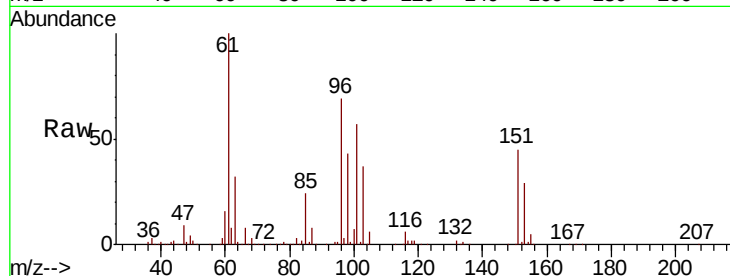
ClientSampleId :

ICVVU030719

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 178847 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 145.2 | 0.0   | 435.3  |
| 98        | 62.3  | 0.0   | 128.6  |

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#10

Iodomethane

Concen: 11.519 ug/l

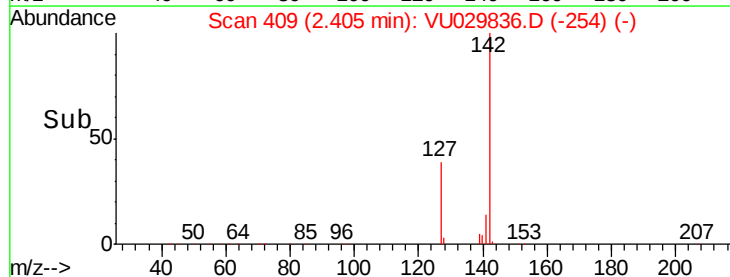
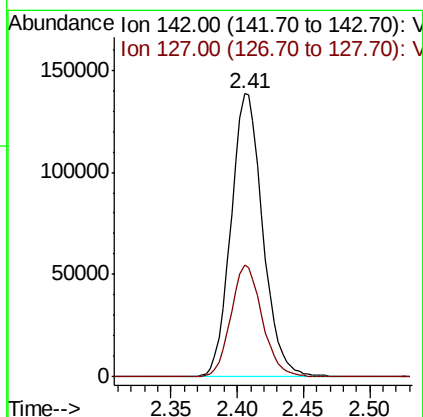
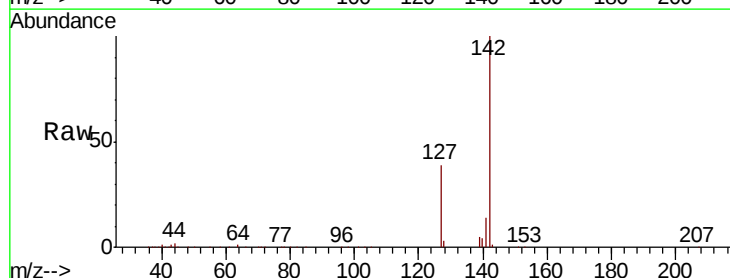
RT: 2.41 min Scan# 409

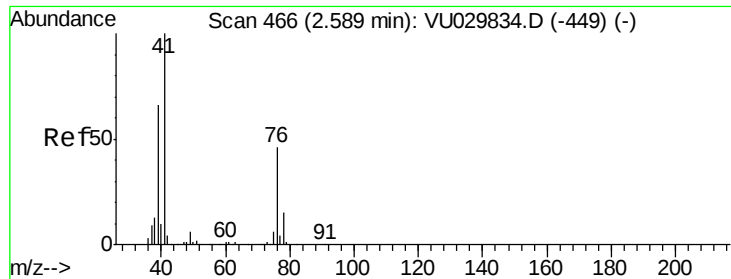
Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 230688 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 39.0  | 32.3  | 48.5   |





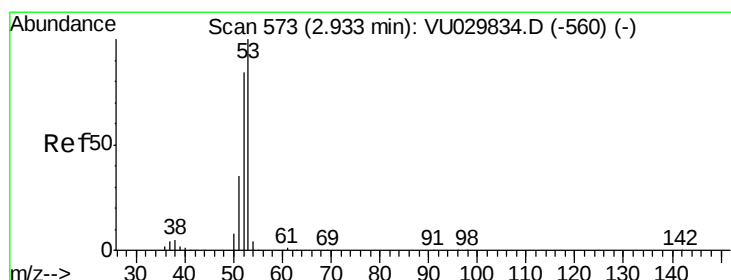
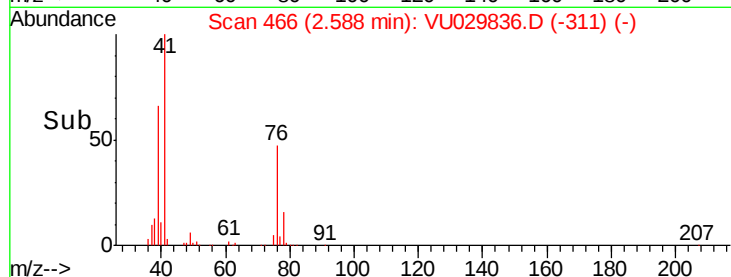
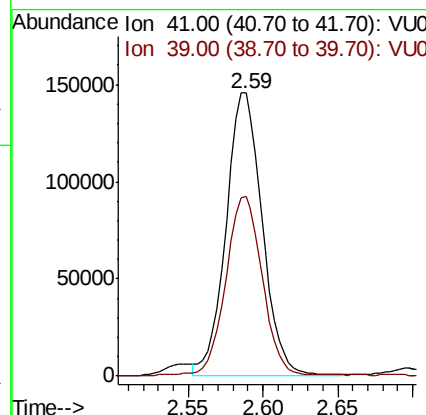
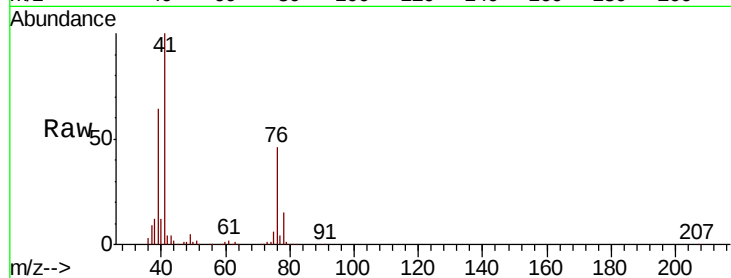
#11  
 Allyl Chloride  
 Concen: 9.836 ug/l  
 RT: 2.59 min Scan# 466  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

Tgt Ion: 41 Resp: 245786  
 Ion Ratio Lower Upper  
 41 100  
 39 64.2 51.6 77.4

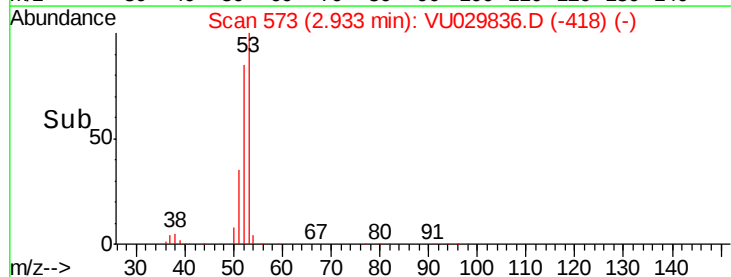
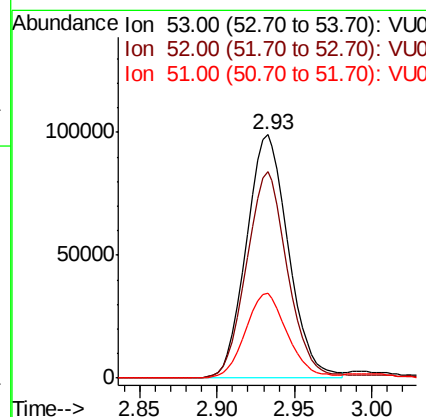
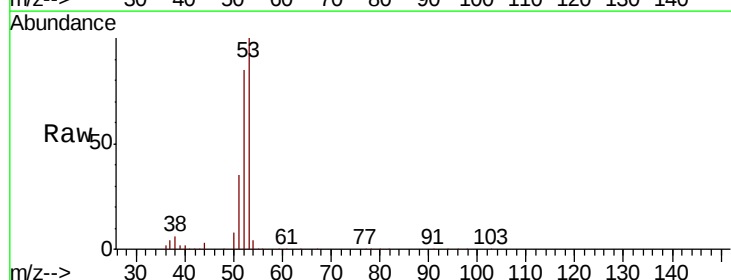
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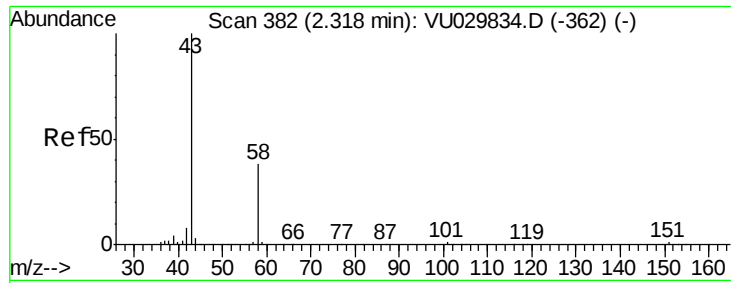
MMDadoda  
 3/11/2019 4:50:23 PM



#12  
 Acrylonitrile  
 Concen: 48.351 ug/l  
 RT: 2.93 min Scan# 573  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Tgt Ion: 53 Resp: 187399  
 Ion Ratio Lower Upper  
 53 100  
 52 83.3 66.5 99.7  
 51 35.0 28.6 42.8





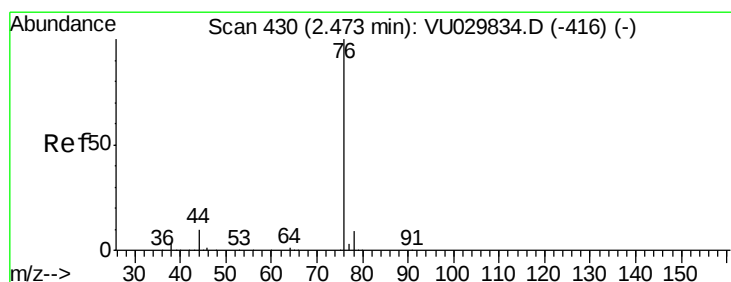
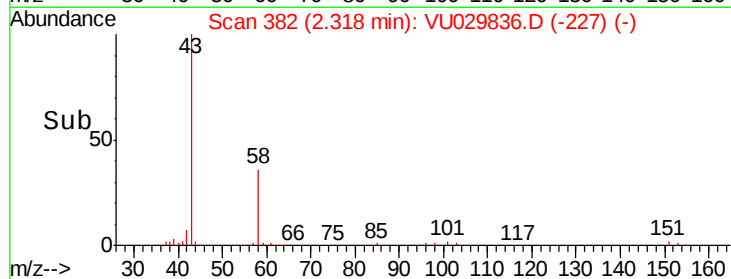
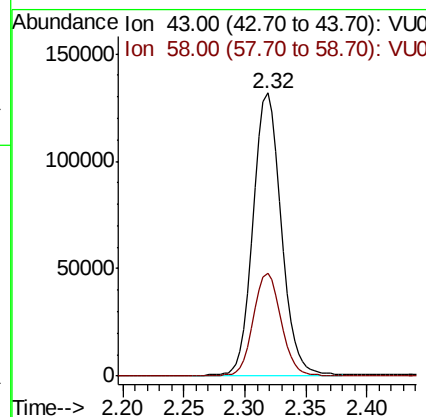
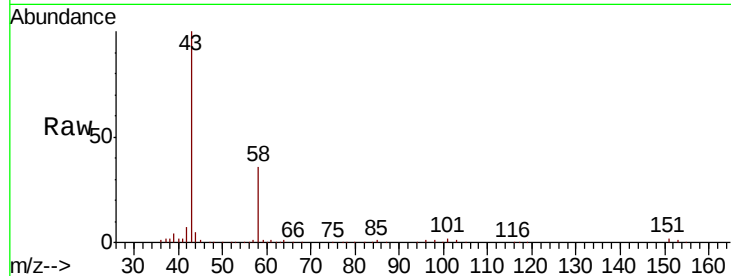
#13  
Acetone  
Concen: 65.121 ug/l  
RT: 2.32 min Scan# 382  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 36.4  | 30.2  | 45.2  |

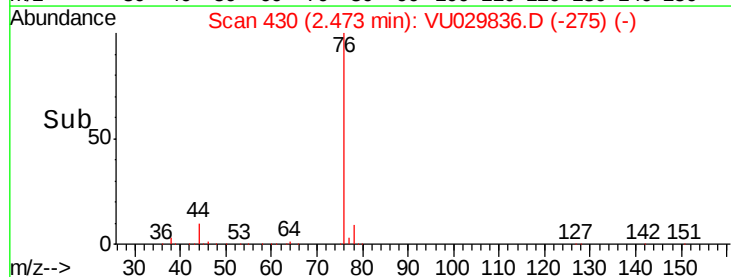
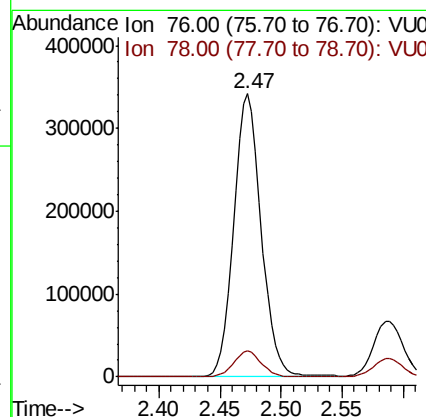
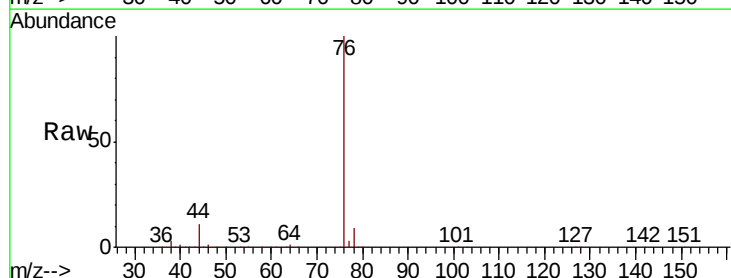
Manual Integrations  
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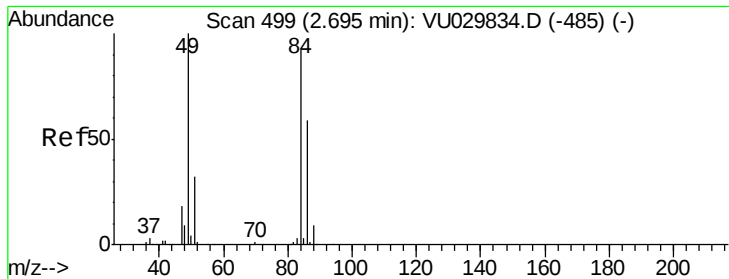
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#14  
Carbon Disulfide  
Concen: 9.336 ug/l  
RT: 2.47 min Scan# 430  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.2   | 7.2   | 10.8  |





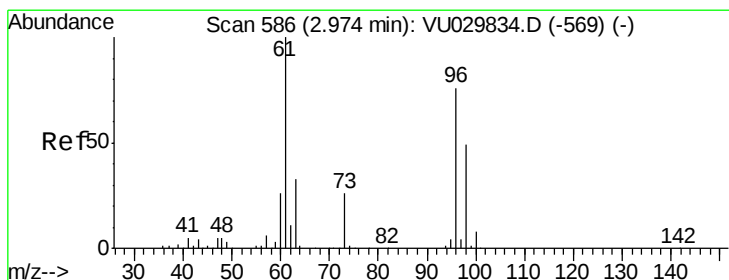
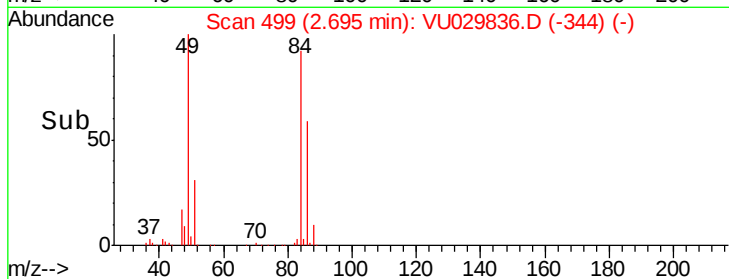
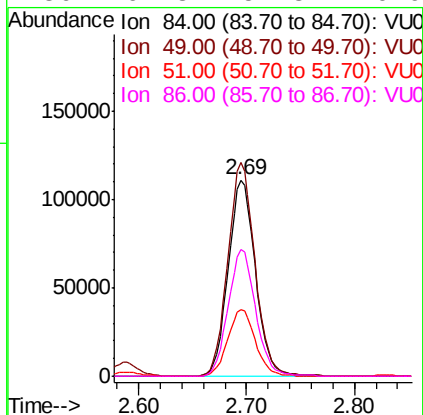
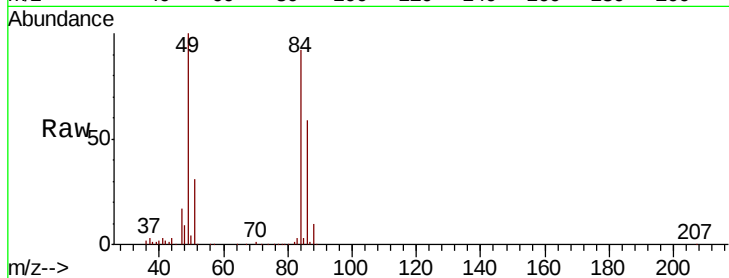
#15  
Methylene Chloride  
Concen: 9.181 ug/l  
RT: 2.69 min Scan# 499  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 108.9 | 87.2  | 130.8 |
| 51      | 34.0  | 0.0   | 69.0  |
| 86      | 64.3  | 51.3  | 76.9  |

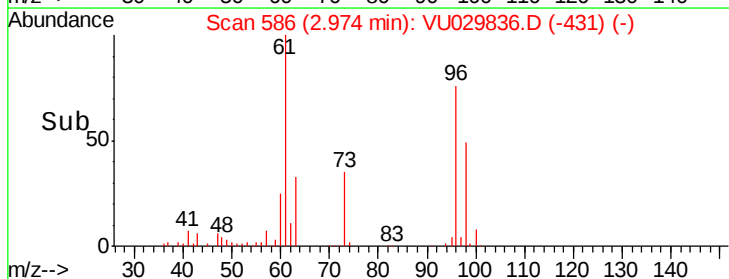
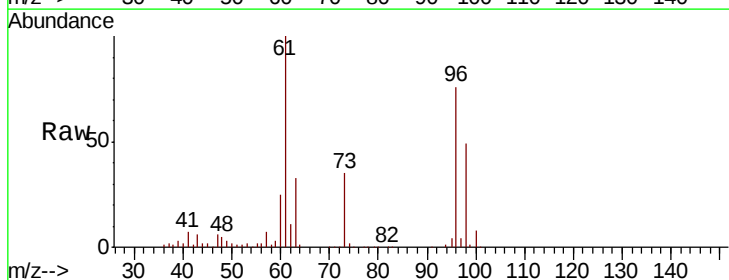
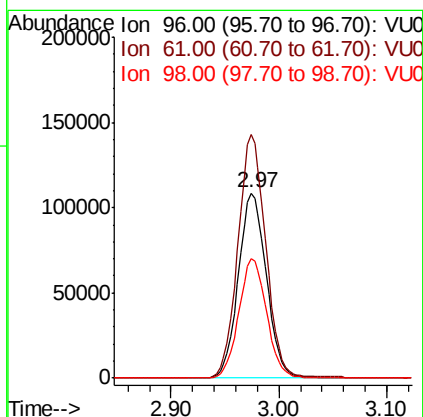
Manual Integrations  
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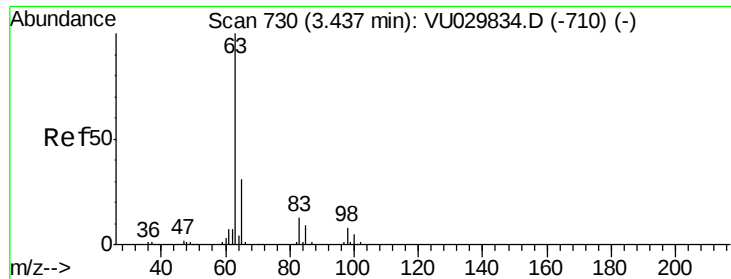
MMDadoda  
3/11/2019 4:50:23 PM



#16  
trans-1,2-Dichloroethene  
Concen: 9.842 ug/l  
RT: 2.97 min Scan# 586  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 131.7 | 104.7 | 157.1 |
| 98      | 64.4  | 50.9  | 76.3  |





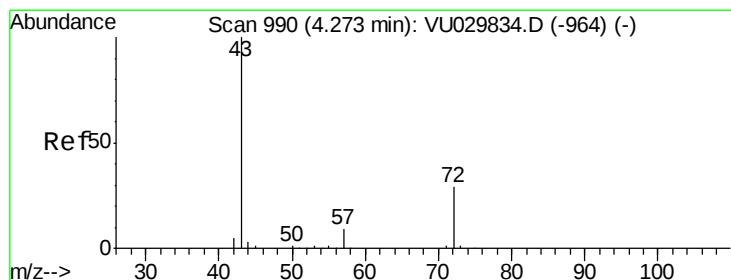
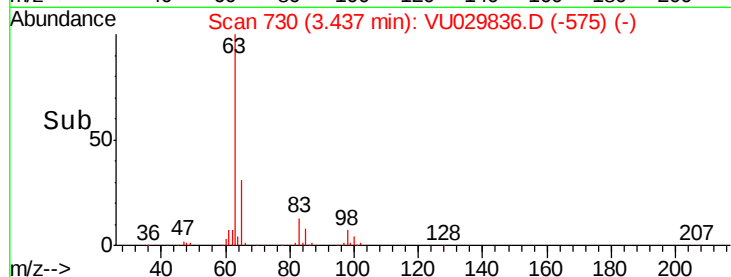
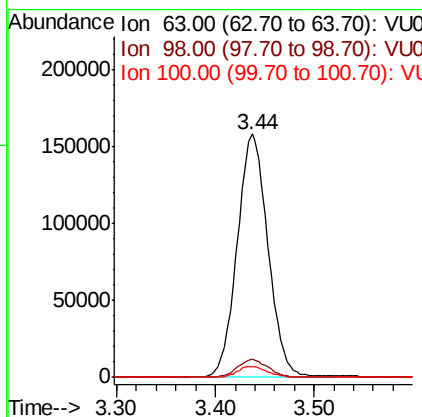
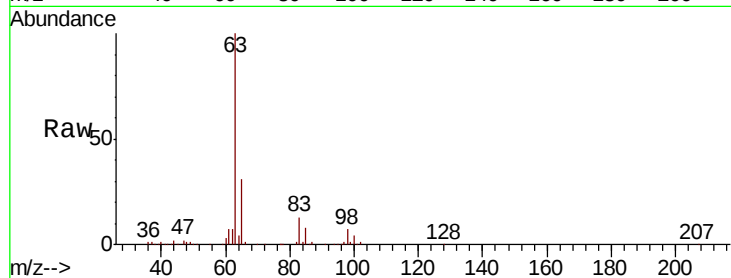
#17  
 1,1-Dichloroethane  
 Concen: 10.226 ug/l  
 RT: 3.44 min Scan# 730  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 63      | 100   |            |       |
| 98      | 7.3   | 3.8        | 11.4  |
| 100     | 4.4   | 2.4        | 7.1   |

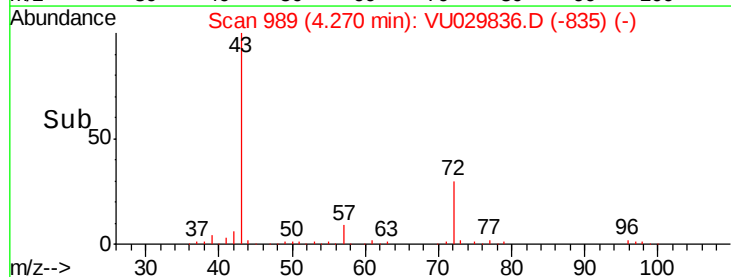
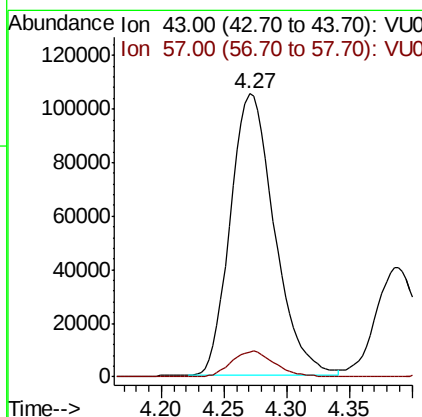
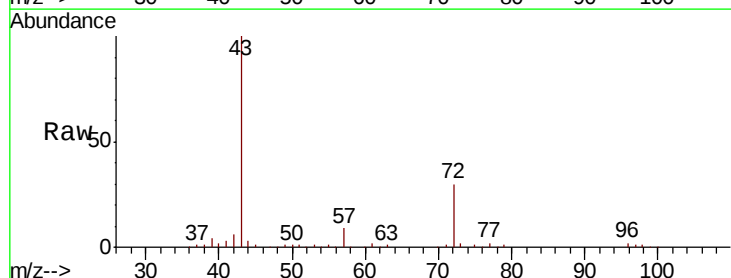
Manual Integrations  
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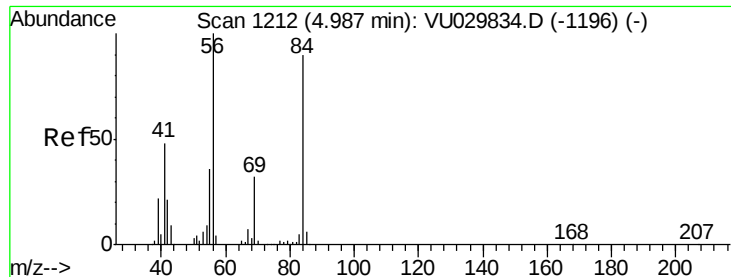
MMDadoda  
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#18  
 2-Butanone  
 Concen: 58.676 ug/l  
 RT: 4.27 min Scan# 989  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 9.0   | 0.0   | 18.6  |





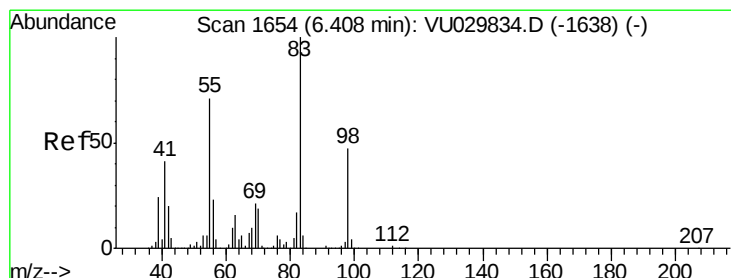
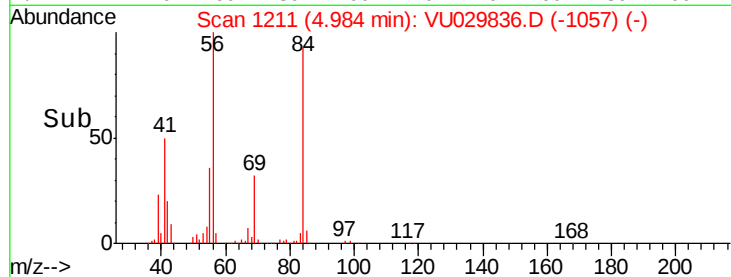
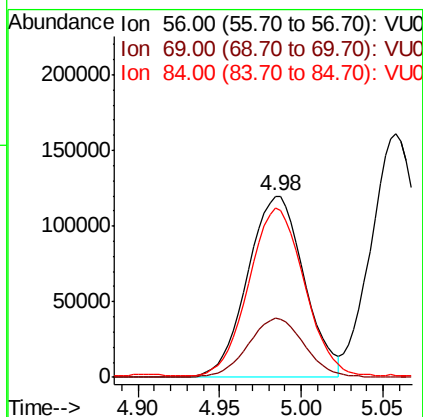
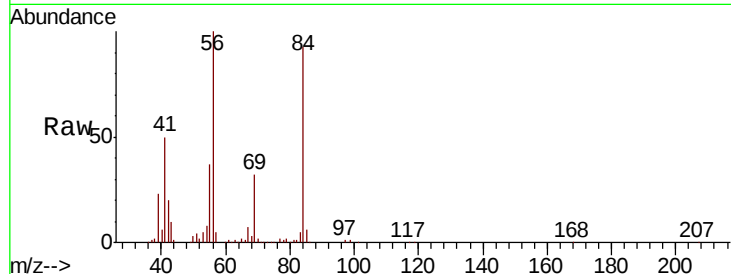
#19  
Cyclohexane  
Concen: 11.105 ug/l m  
RT: 4.98 min Scan# 1211  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 32.1  | 29.4  | 44.2  |
| 84      | 89.8  | 84.6  | 127.0 |

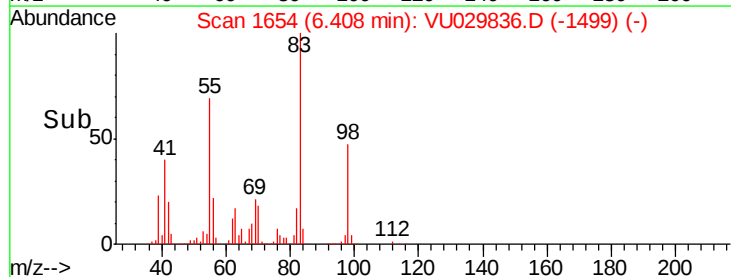
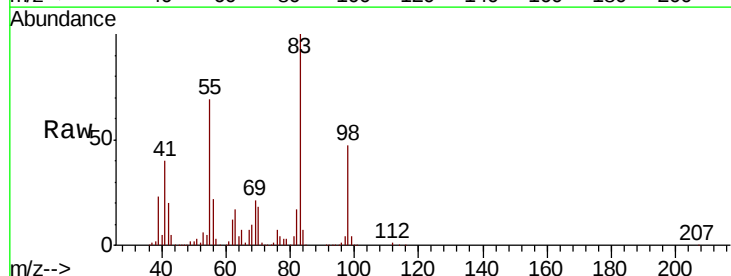
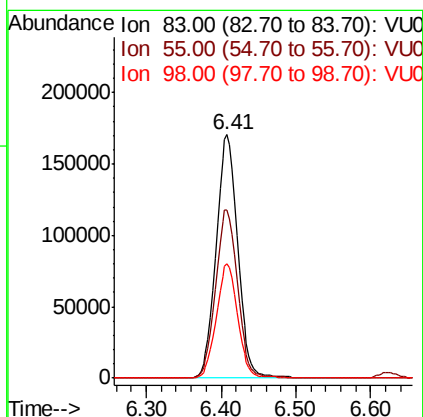
Manual Integrations  
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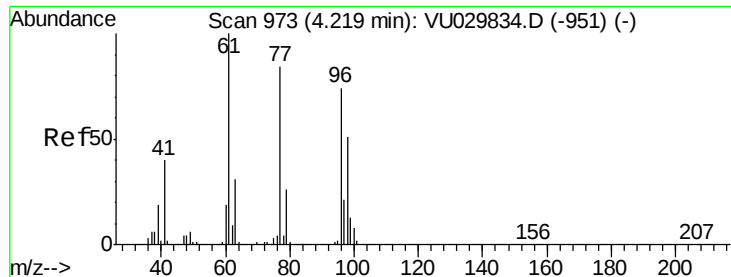
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#20  
Methylcyclohexane  
Concen: 11.237 ug/l  
RT: 6.41 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 70.3  | 55.9  | 83.9  |
| 98      | 46.1  | 37.0  | 55.4  |





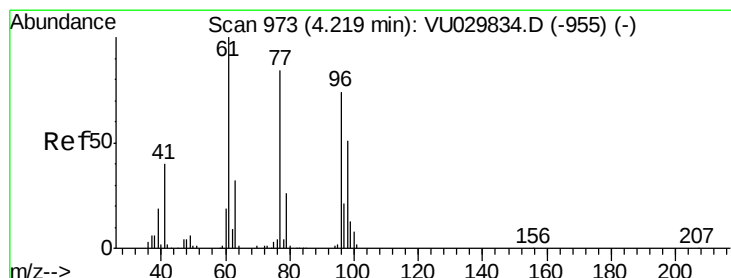
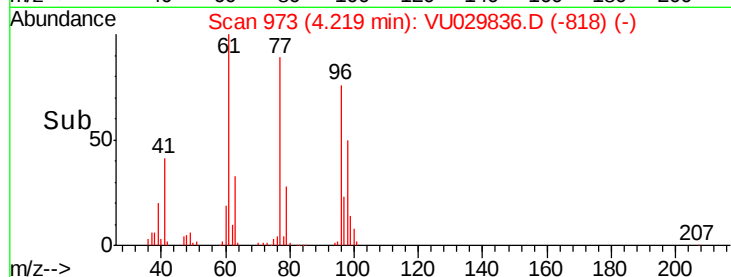
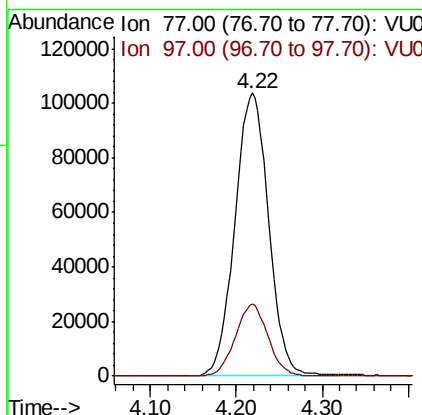
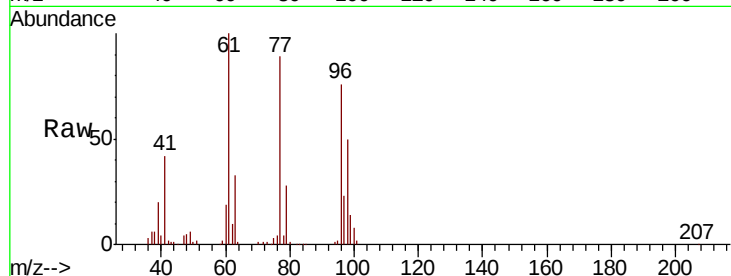
#21  
 2,2-Dichloropropane  
 Concen: 10.309 ug/l  
 RT: 4.22 min Scan# 973  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

Tgt Ion: 77 Resp: 283110  
 Ion Ratio Lower Upper  
 77 100  
 97 24.6 20.2 30.2

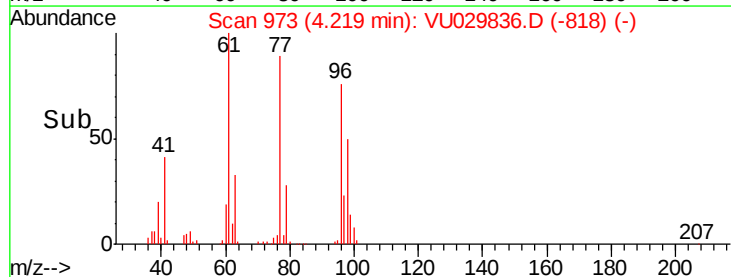
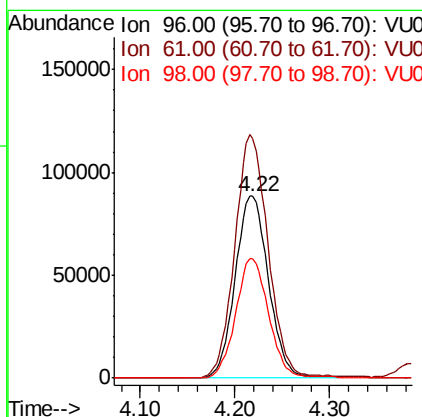
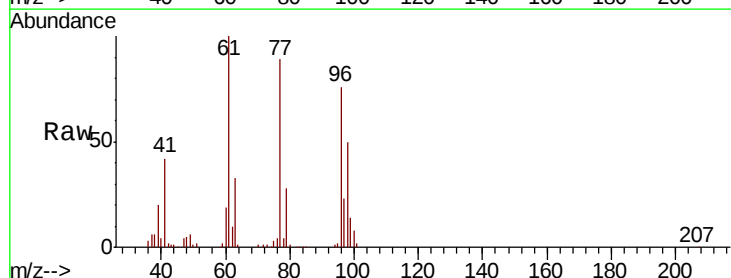
Manual Integrations  
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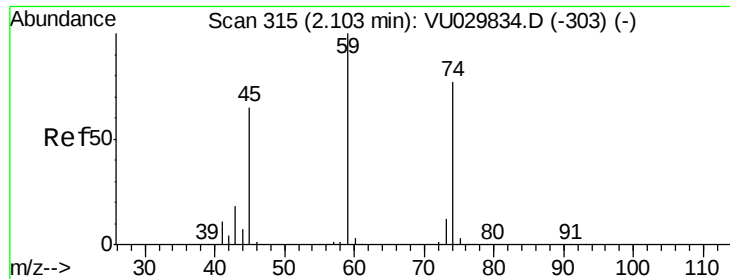
MMDadoda  
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#22  
 cis-1,2-Dichloroethene  
 Concen: 10.191 ug/l  
 RT: 4.22 min Scan# 973  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Tgt Ion: 96 Resp: 216881  
 Ion Ratio Lower Upper  
 96 100  
 61 133.6 0.0 339.0  
 98 64.8 33.1 99.5





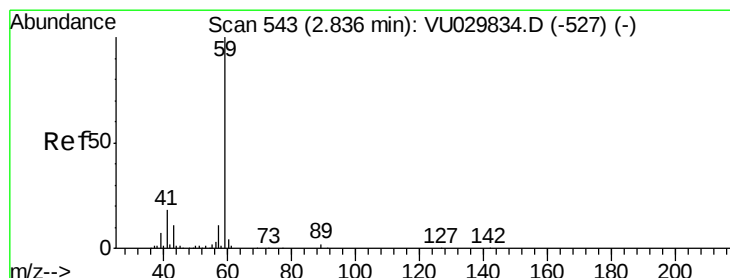
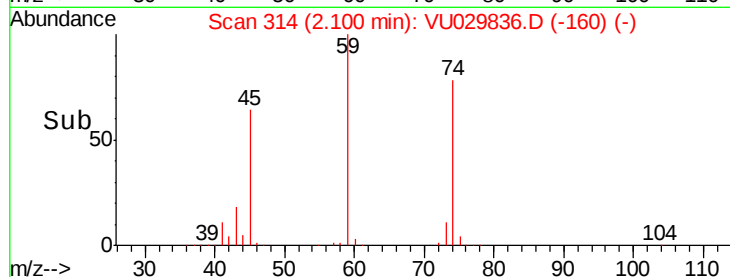
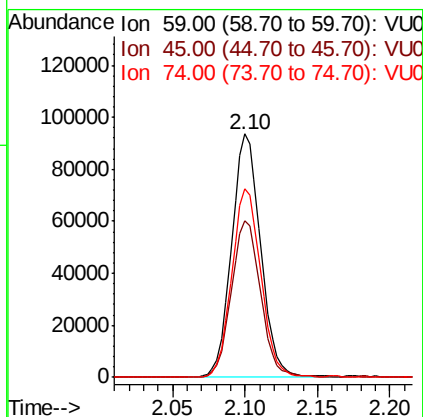
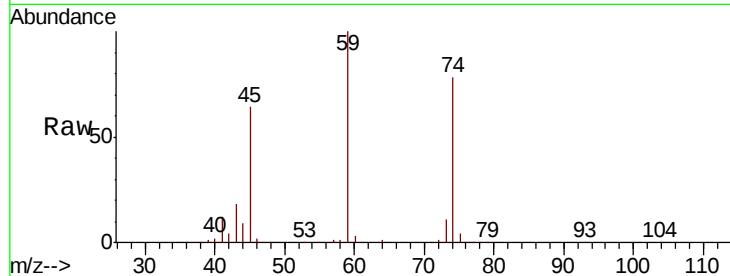
#23  
Diethyl Ether  
Concen: 9.731 ug/l  
RT: 2.10 min Scan# 314  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 64.7  | 52.7  | 79.1  |
| 74      | 77.6  | 61.8  | 92.6  |

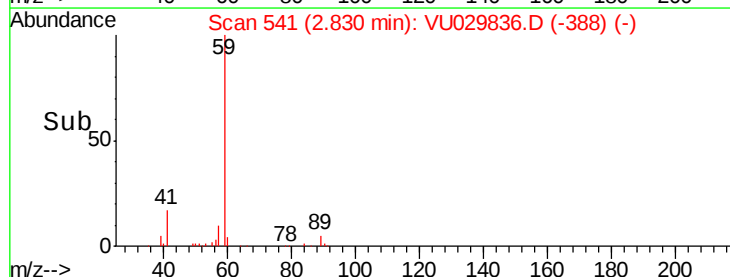
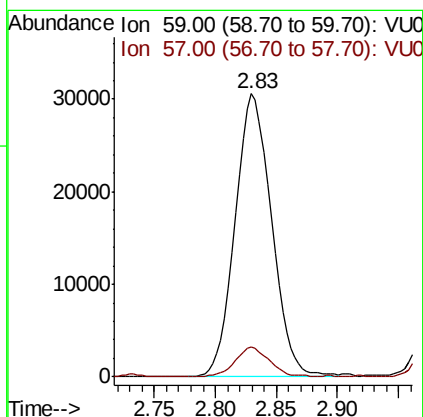
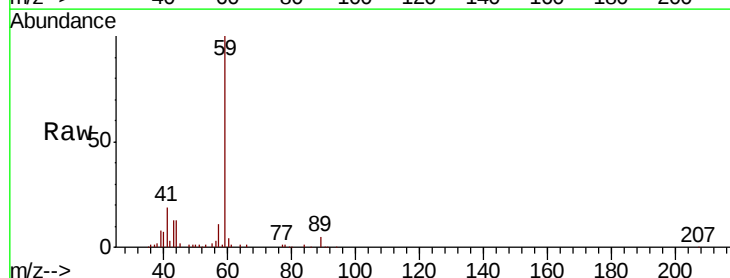
Manual Integrations  
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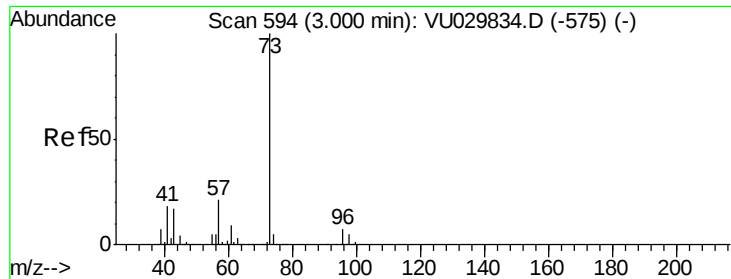
MMDadoda  
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#24  
tert-Butyl Alcohol  
Concen: 46.233 ug/l  
RT: 2.83 min Scan# 541  
Delta R.T. -0.01 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 9.9   | 8.5   | 12.7  |





#25

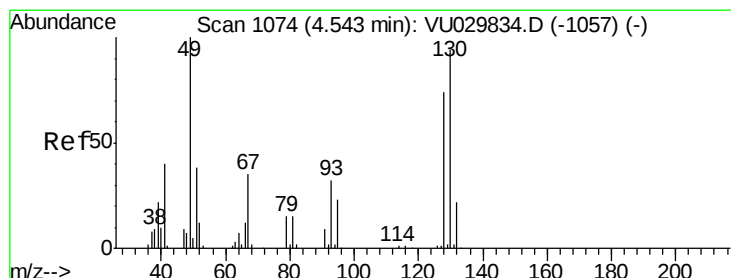
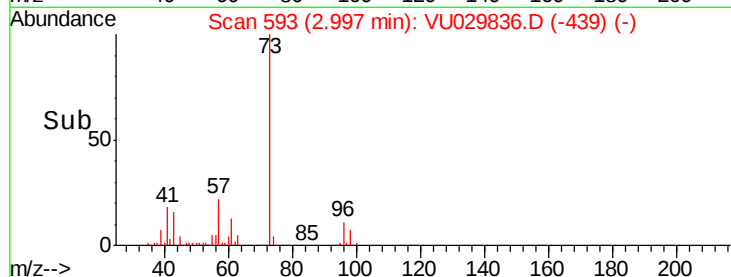
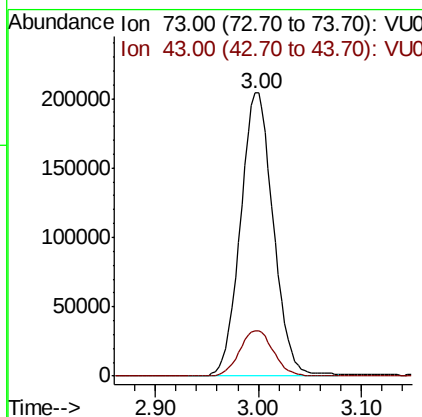
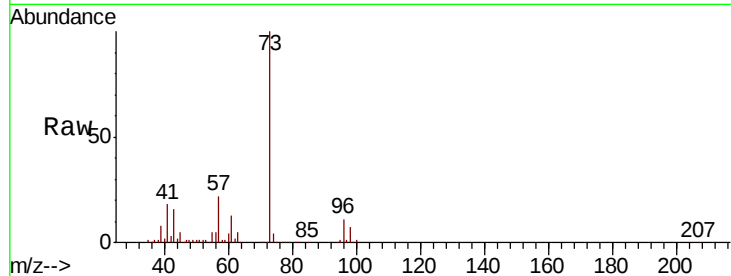
Methyl tert-Butyl Ether  
Concen: 10.096 ug/l  
RT: 3.00 min Scan# 593  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

Tgt Ion: 73 Resp: 451899  
Ion Ratio Lower Upper  
73 100  
43 16.3 13.1 19.7

Manual Integrations  
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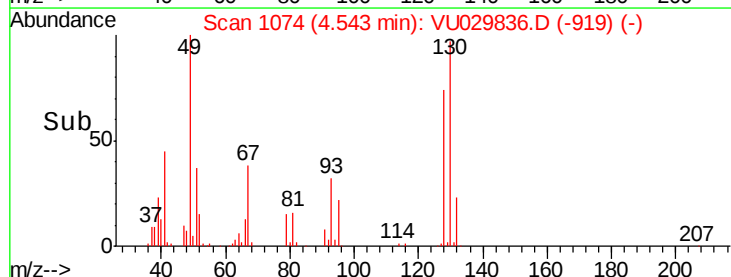
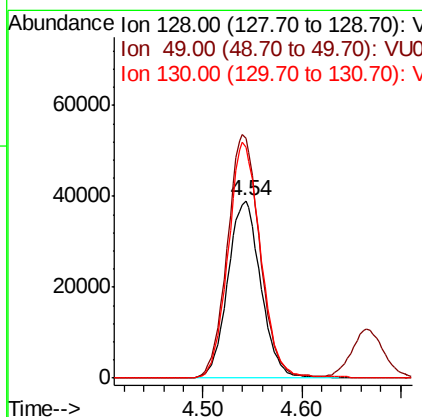
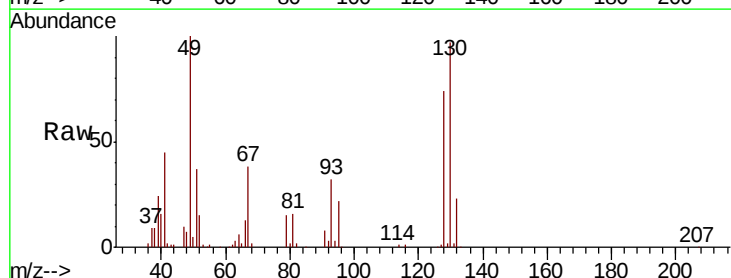
MMDadoda  
3/11/2019 4:50:23 PM

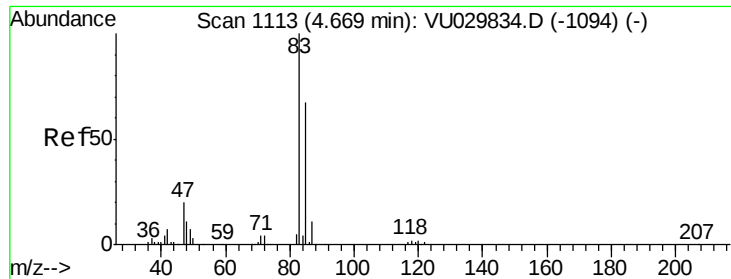


#26

Bromochloromethane  
Concen: 9.648 ug/l  
RT: 4.54 min Scan# 1074  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Tgt Ion: 128 Resp: 91149  
Ion Ratio Lower Upper  
128 100  
49 135.2 0.0 270.6  
130 130.1 104.2 156.4





#27

Chloroform

Concen: 10.194 ug/l

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 83 Resp: 346801

Ion Ratio Lower Upper

83 100

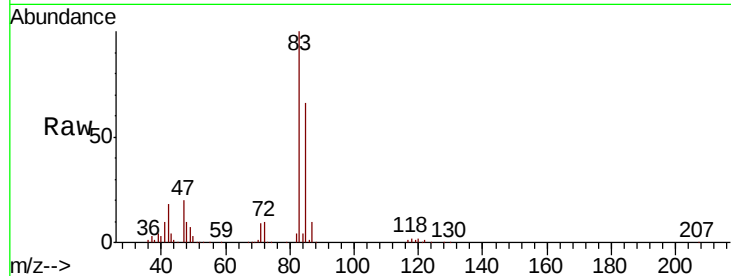
85 65.5 0.0 133.2

Manual Integrations

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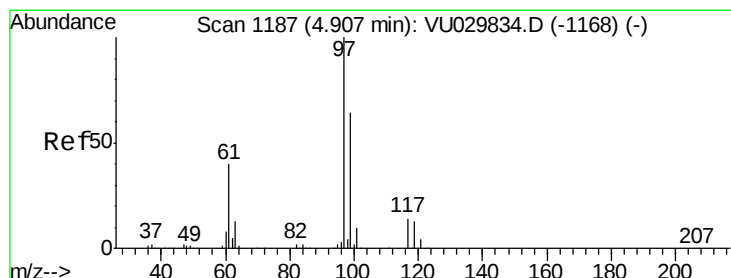
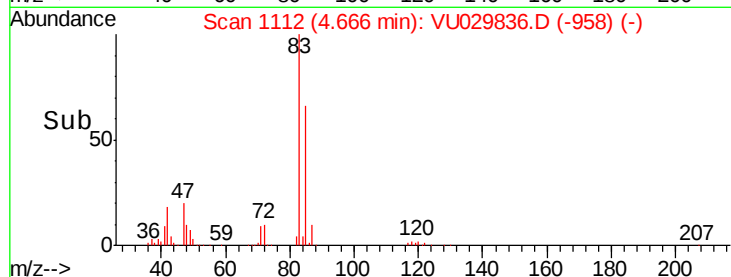
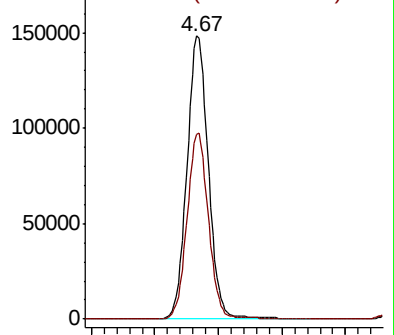
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Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#28

1,1,1-Trichloroethane

Concen: 10.399 ug/l

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

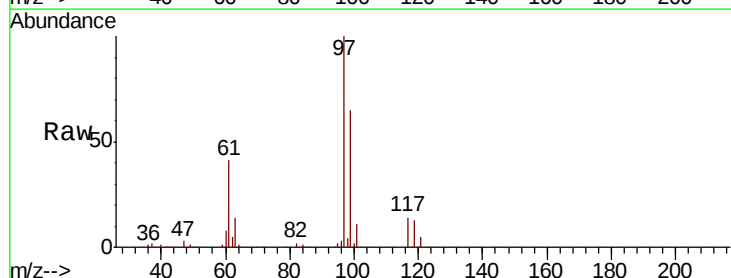
Tgt Ion: 97 Resp: 299947

Ion Ratio Lower Upper

97 100

99 63.9 31.9 95.9

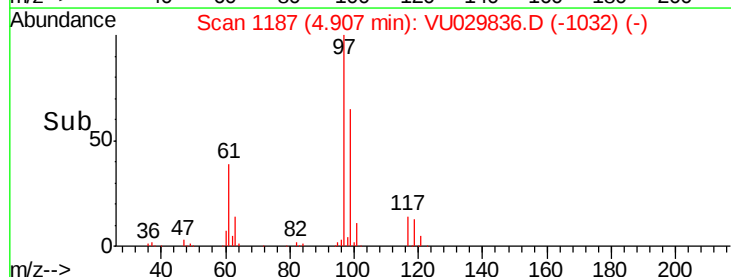
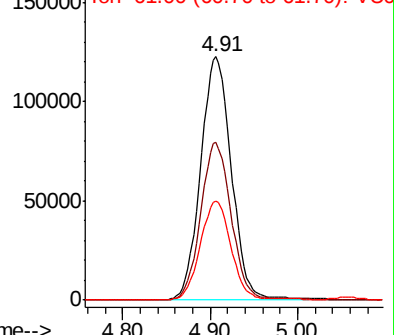
61 40.5 20.4 61.3

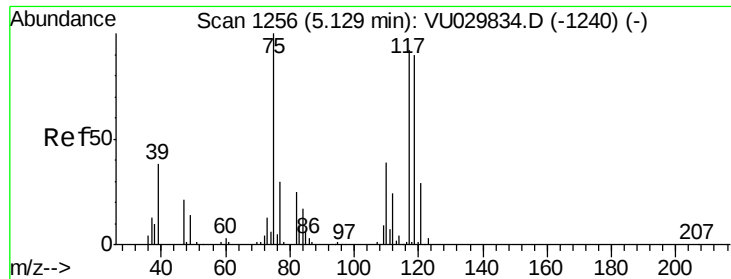


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





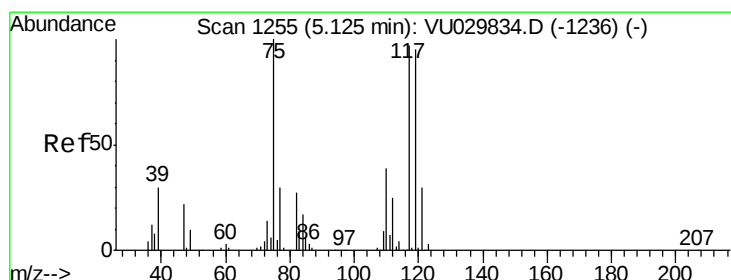
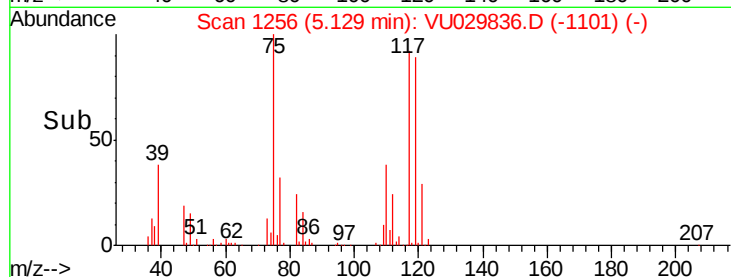
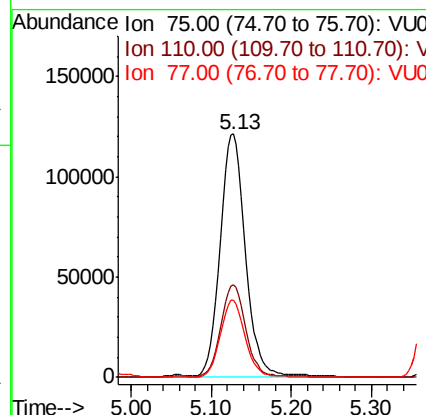
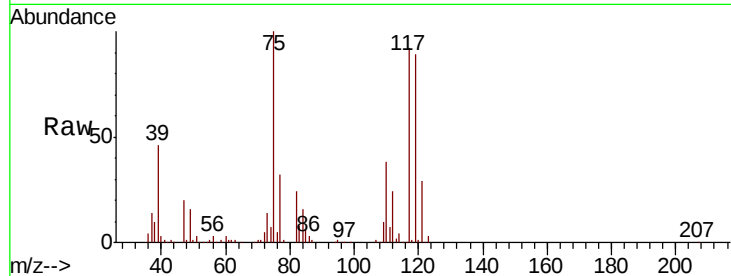
#29  
 1,1-Dichloropropene  
 Concen: 10.369 ug/l  
 RT: 5.13 min Scan# 1256  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 265781 |       |       |
| 110     | 38.4  | 19.1   | 57.5  |       |
| 77      | 30.4  | 23.9   | 35.9  |       |

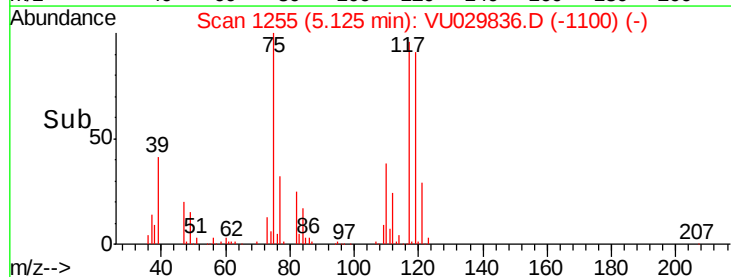
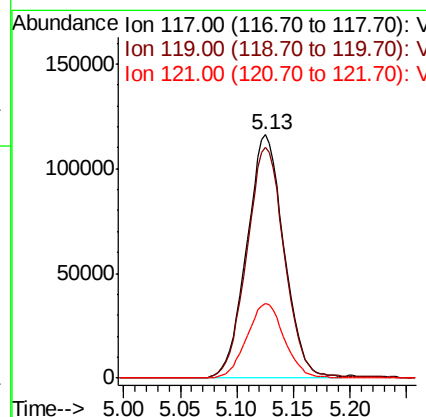
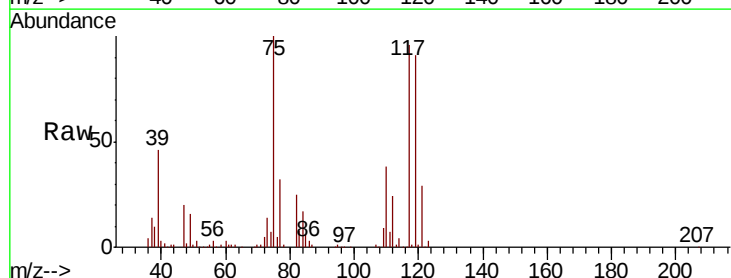
Manual Integrations  
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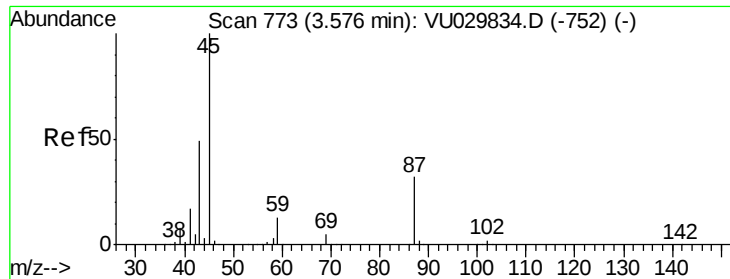
MMDadoda  
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#30  
 Carbon Tetrachloride  
 Concen: 10.580 ug/l  
 RT: 5.13 min Scan# 1255  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 266233 |       |       |
| 119     | 94.8  | 78.4   | 117.6 |       |
| 121     | 30.6  | 25.0   | 37.4  |       |





#31

Isopropyl Ether

Concen: 11.261 ug/l

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 45 Resp: 521806

Ion Ratio Lower Upper

45 100

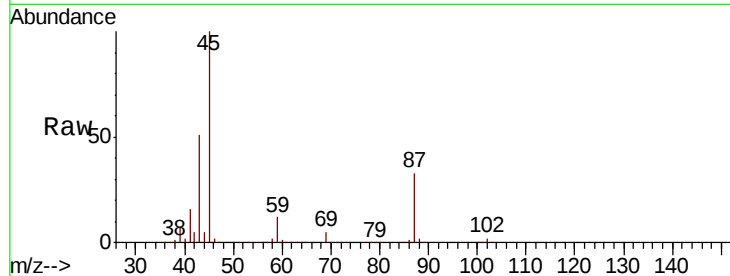
43 217.6 24.3 72.9#

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Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

600000

500000

400000

300000

200000

100000

0

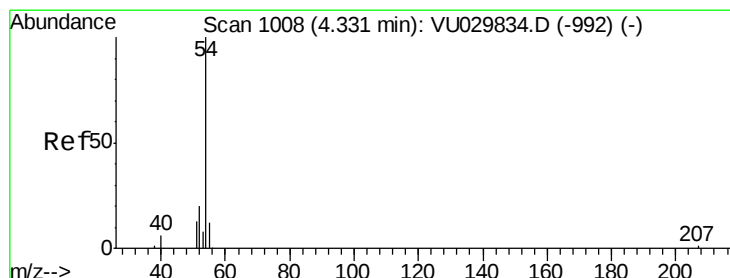
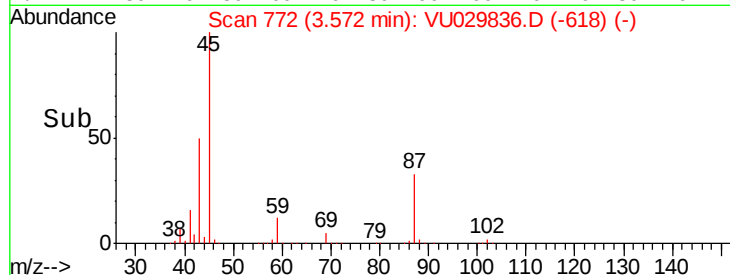
3.50

3.57

3.60

3.70

Time-->



#34

Propionitrile

Concen: 106.927 ug/l

RT: 4.32 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Tgt Ion: 54 Resp: 138757

Ion Ratio Lower Upper

54 100

52 18.5 16.1 24.1

55 15.6 11.2 16.8

40 5.9 4.7 7.1

Abundance Ion 54.00 (53.70 to 54.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 40.00 (39.70 to 40.70): VU0

80000

60000

40000

20000

0

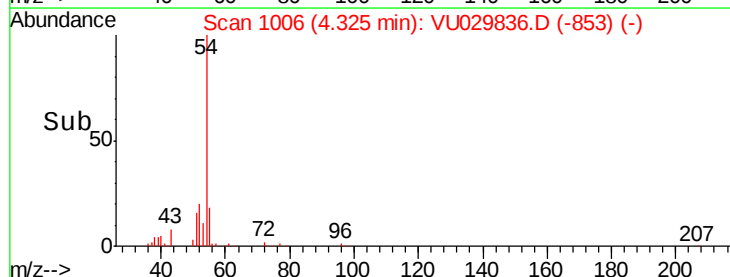
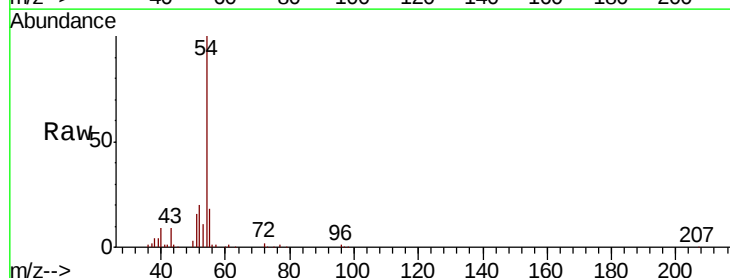
4.20

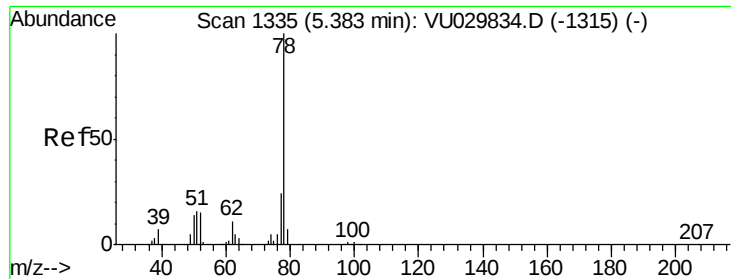
4.30

4.32

4.40

Time-->





#35

Benzene

Concen: 10.433 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 78 Resp: 787770

Ion Ratio Lower Upper

78 100

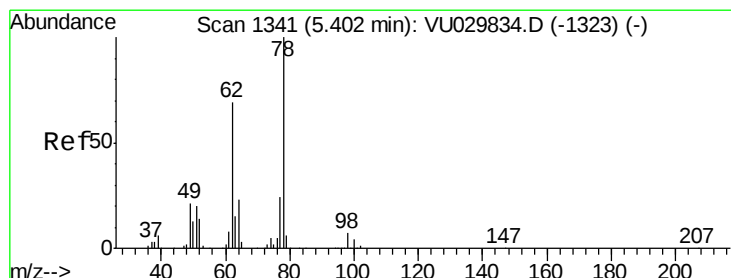
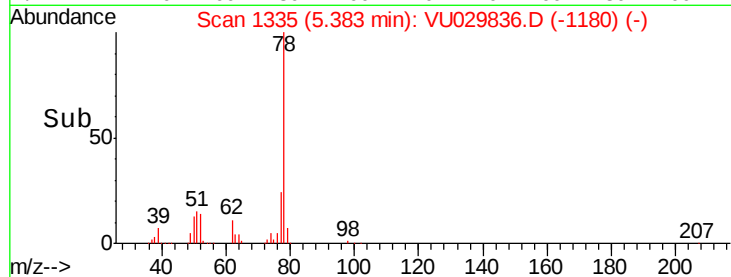
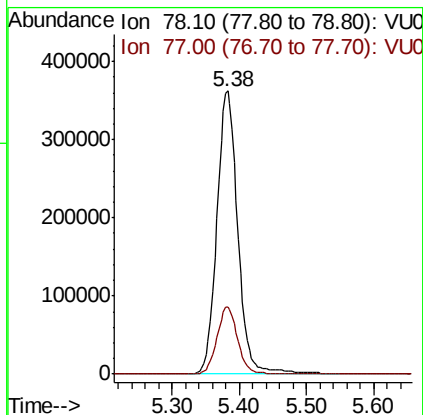
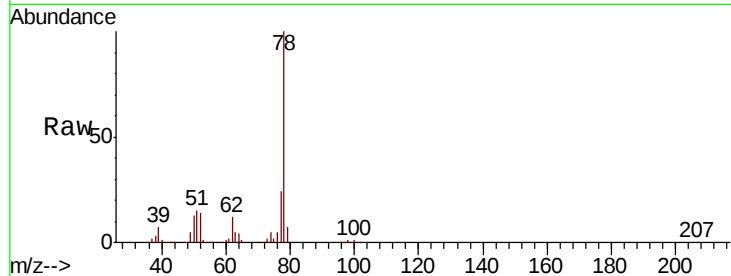
77 23.6 19.2 28.8

Manual Integrations

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#36

1,2-Dichloroethane

Concen: 10.068 ug/l

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU029836.D

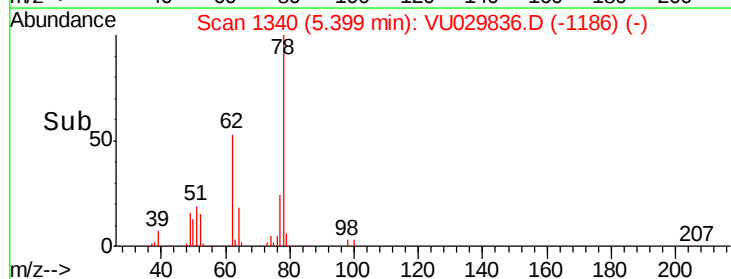
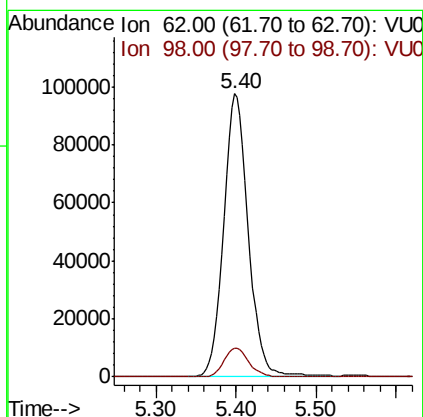
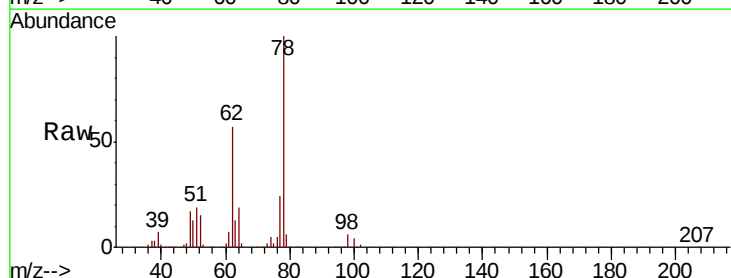
Acq: 06 Mar 2019 13:03

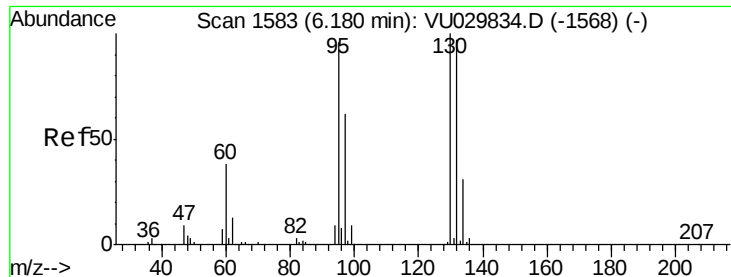
Tgt Ion: 62 Resp: 207643

Ion Ratio Lower Upper

62 100

98 10.0 8.2 12.2





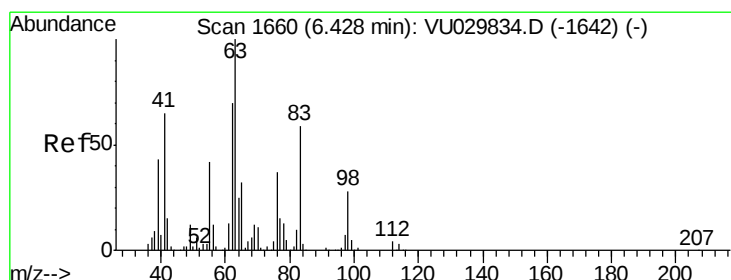
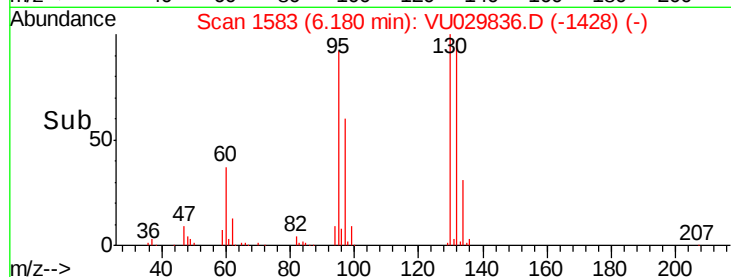
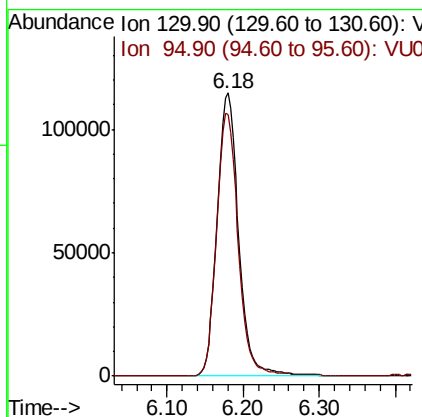
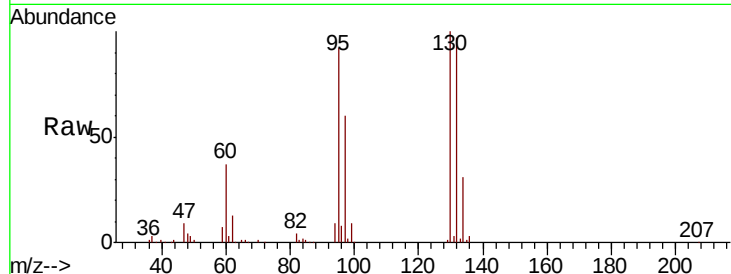
#37  
 Trichloroethene  
 Concen: 10.265 ug/l  
 RT: 6.18 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 ICVVU030719

Tgt Ion:130 Resp: 226299  
 Ion Ratio Lower Upper  
 130 100  
 95 92.3 76.6 114.8

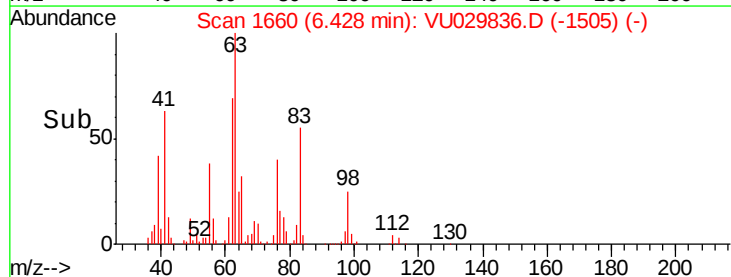
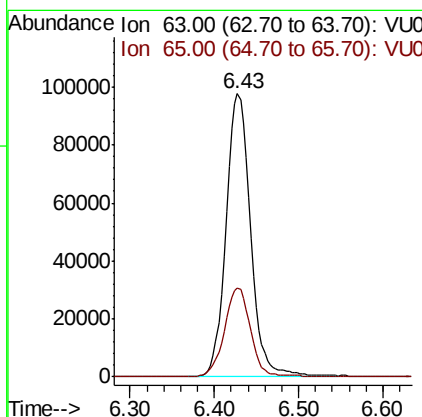
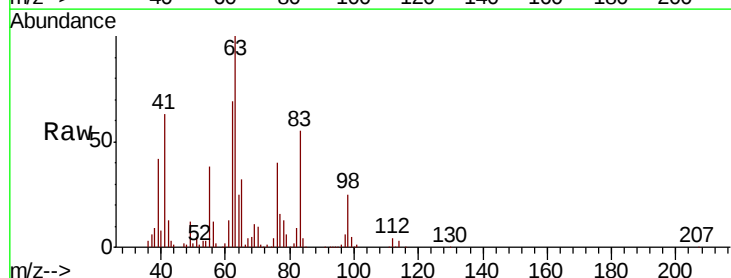
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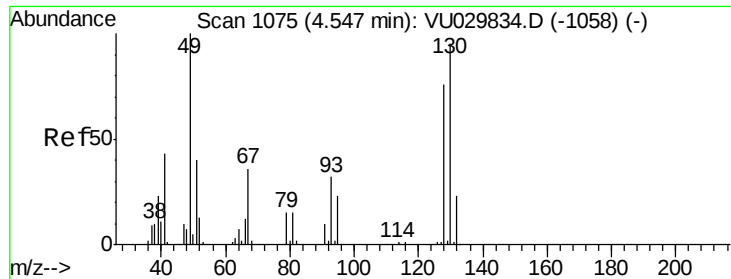
MMDadoda  
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#38  
 1,2-Dichloropropane  
 Concen: 10.368 ug/l  
 RT: 6.43 min Scan# 1660  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Tgt Ion: 63 Resp: 198167  
 Ion Ratio Lower Upper  
 63 100  
 65 31.6 25.4 38.2





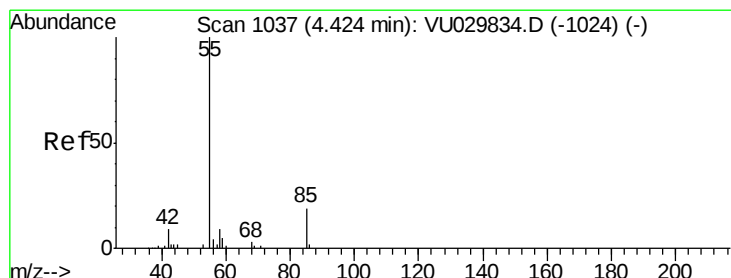
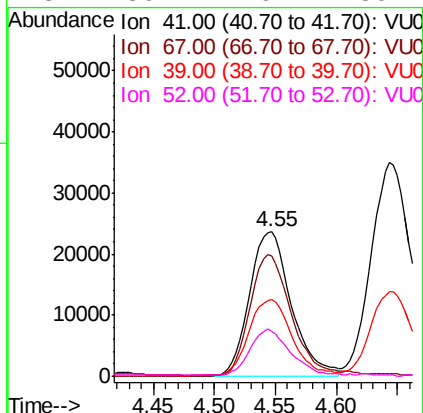
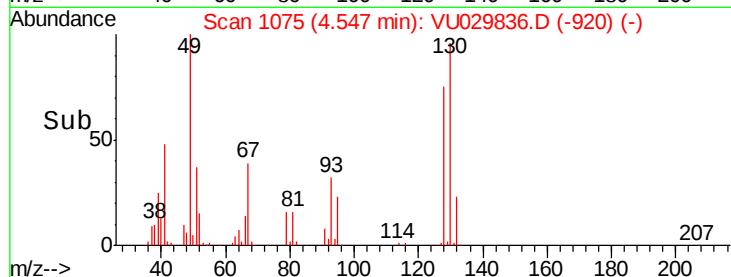
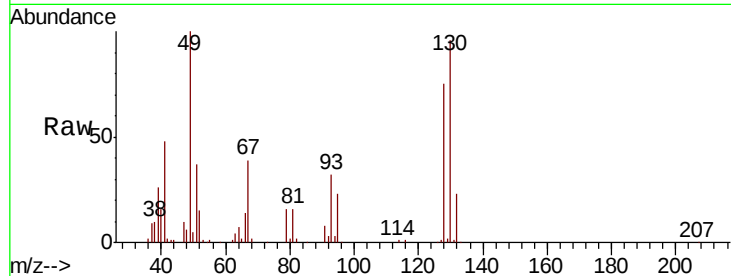
#39  
Methacrylonitrile  
Concen: 10.292 ug/l  
RT: 4.55 min Scan# 1075  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 67      | 85.1  | 68.4  | 102.6 |
| 39      | 53.5  | 42.6  | 63.8  |
| 52      | 30.4  | 26.2  | 39.4  |

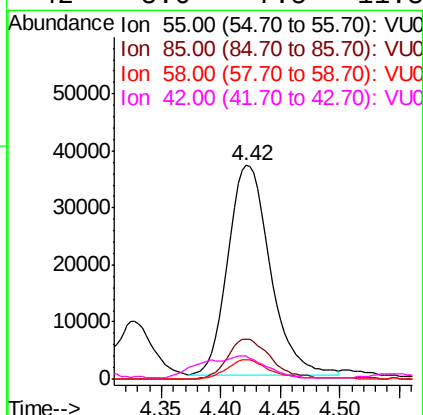
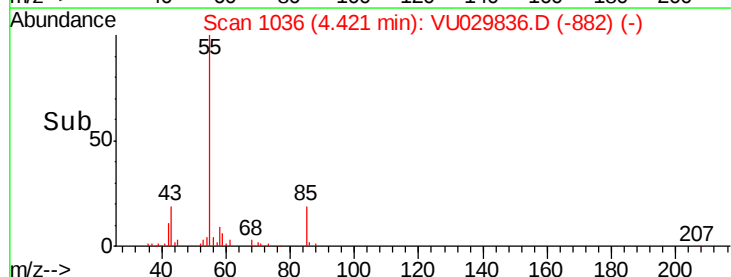
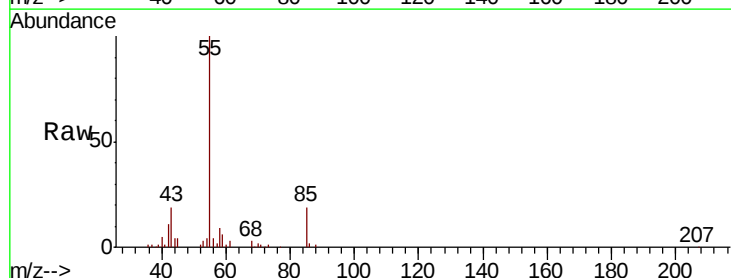
Manual Integrations  
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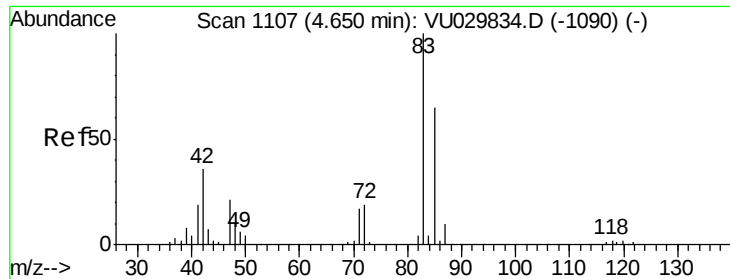
MMDadoda  
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#40  
Methyl acrylate  
Concen: 10.478 ug/l  
RT: 4.42 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 55      | 100   |       |       |
| 85      | 19.5  | 15.2  | 22.8  |
| 58      | 9.1   | 7.6   | 11.4  |
| 42      | 5.6   | 7.5   | 11.3# |





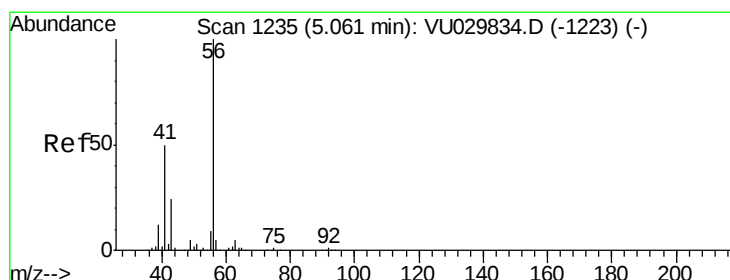
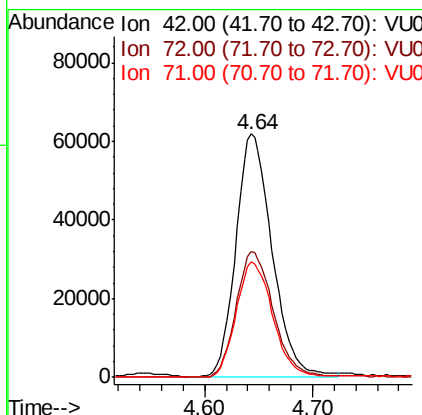
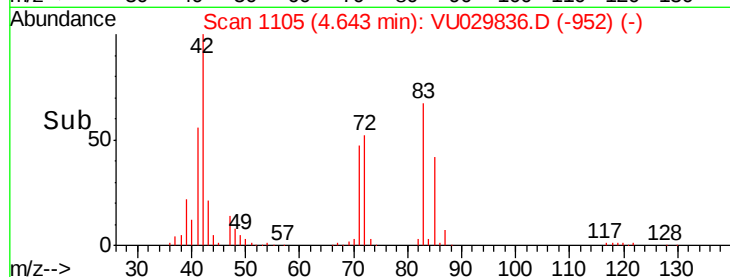
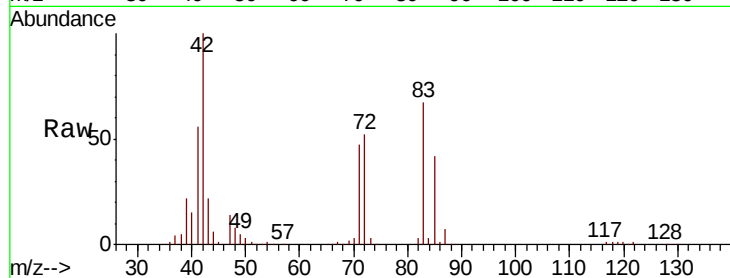
#41  
Tetrahydrofuran  
Concen: 50.498 ug/l  
RT: 4.64 min Scan# 1105  
Delta R.T. -0.01 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 53.8  | 43.6  | 65.4  |
| 71      | 48.1  | 37.5  | 56.3  |

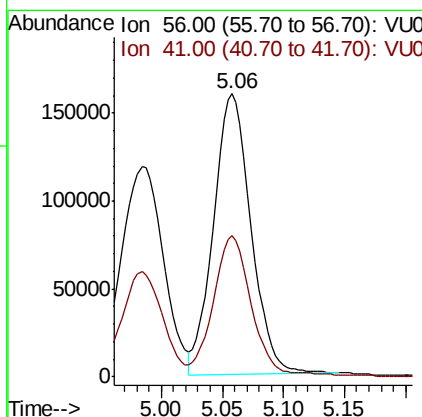
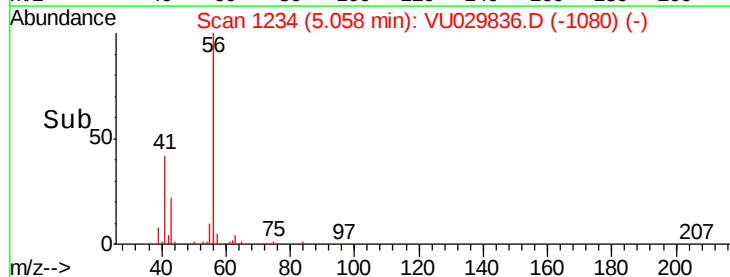
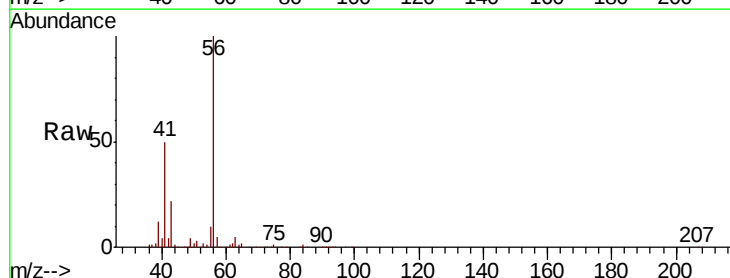
Manual Integrations  
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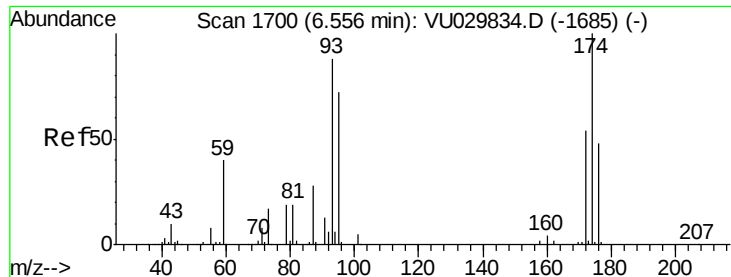
MMDadoda  
3/11/2019 4:50:23 PM



#42  
1-Chlorobutane  
Concen: 10.490 ug/l  
RT: 5.06 min Scan# 1234  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 51.0  | 25.0  | 75.0  |





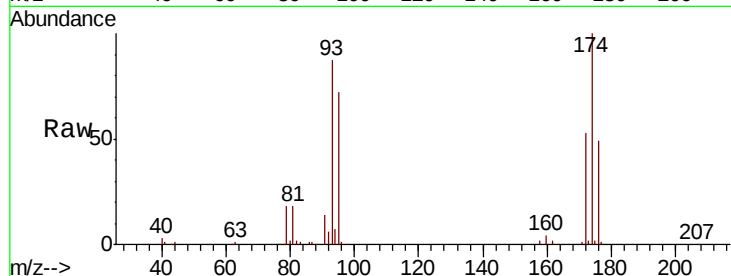
#43  
Dibromomethane  
Concen: 10.559 ug/l  
RT: 6.56 min Scan# 1700  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 104597 |       |       |
| 95      | 82.4  | 67.0   | 100.6 |       |
| 174     | 113.1 | 91.4   | 137.2 |       |

Manual Integrations  
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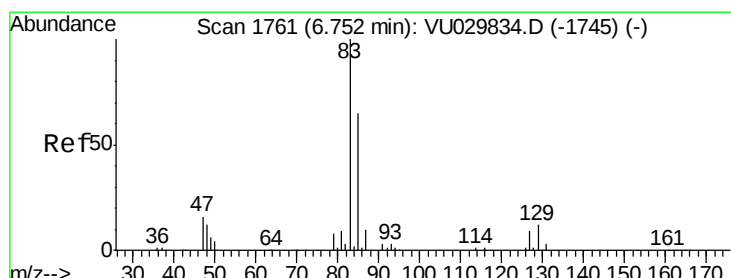
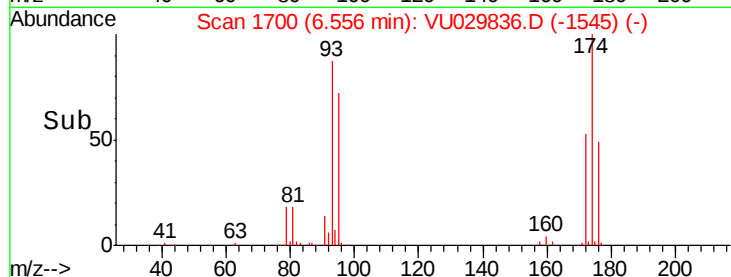
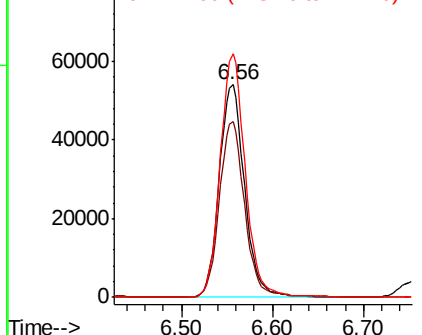


Abundance

Ion 93.00 (92.70 to 93.70): VU0

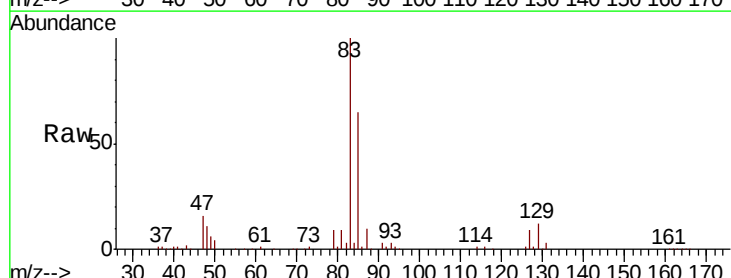
Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V



#44  
Bromodichloromethane  
Concen: 10.276 ug/l  
RT: 6.75 min Scan# 1761  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 250008 |       |       |
| 85      | 65.3  | 51.7   | 77.5  |       |
| 127     | 9.2   | 7.4    | 11.2  |       |

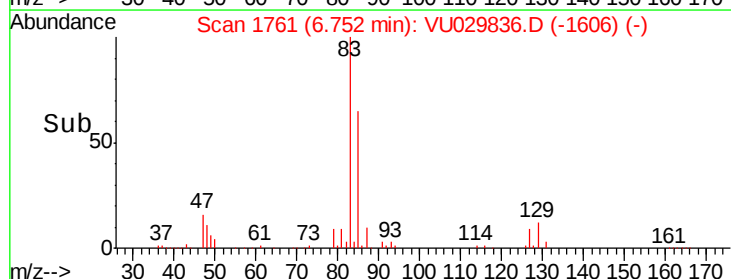
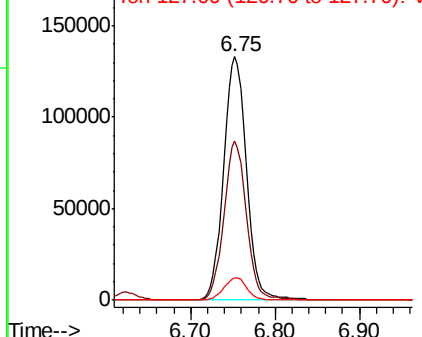


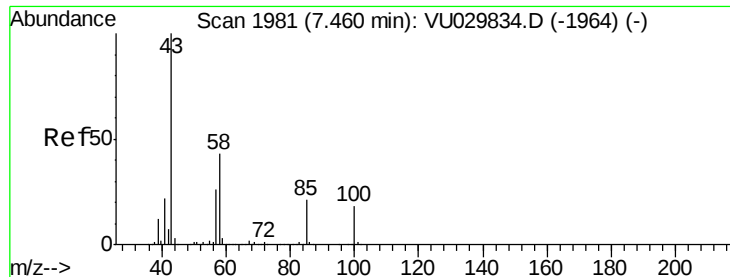
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V





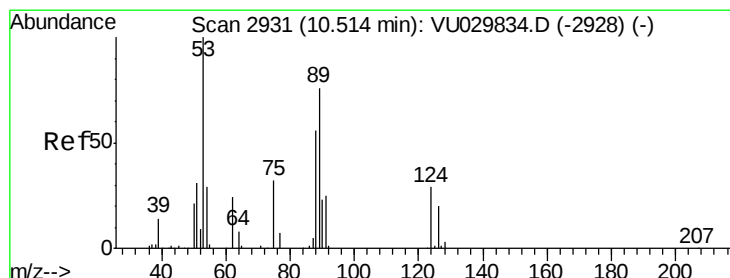
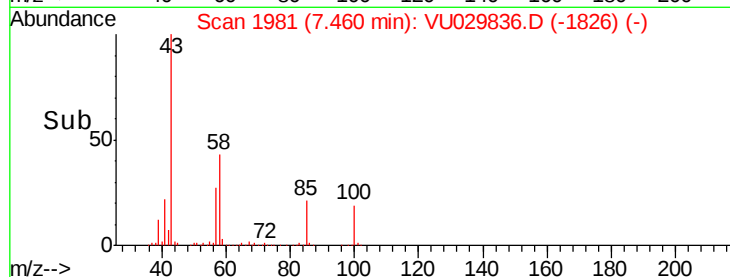
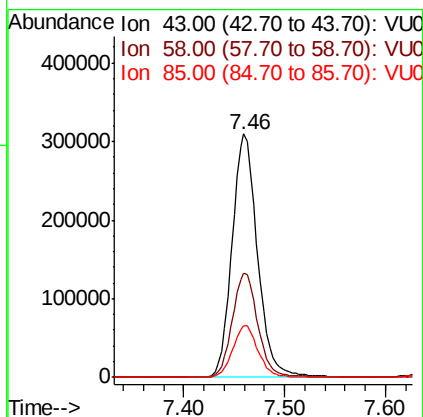
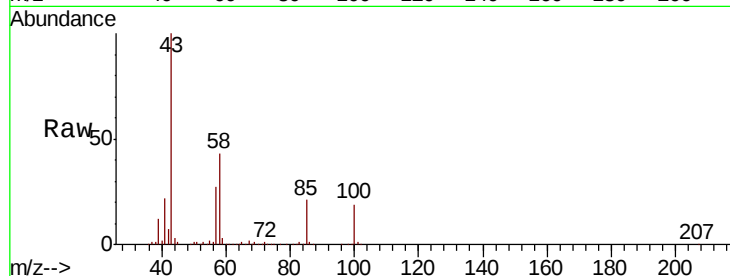
#45  
 4-Methyl-2-Pentanone  
 Concen: 52.609 ug/l  
 RT: 7.46 min Scan# 1981  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 543541 |       |       |
| 58      | 43.3  | 21.6   | 65.0  |       |
| 85      | 21.2  | 16.5   | 24.7  |       |

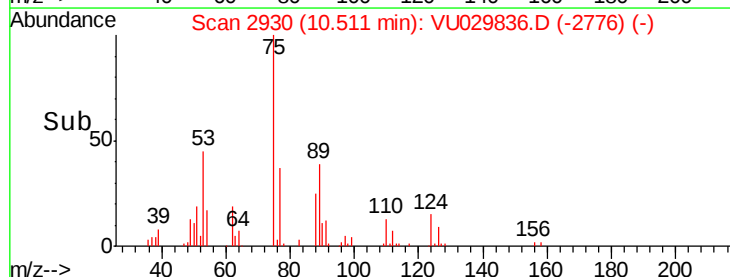
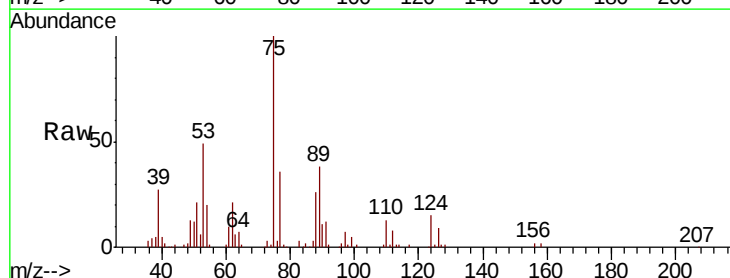
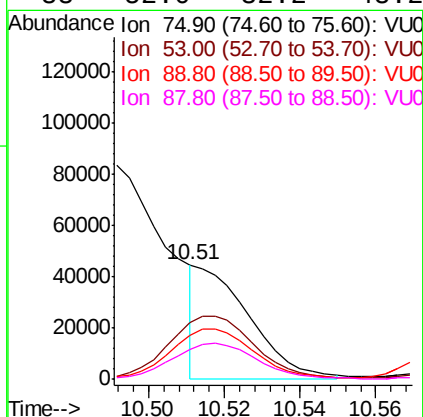
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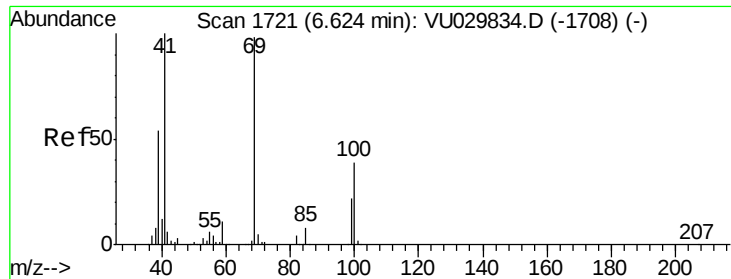
MMDadoda  
 3/11/2019 4:50:23 PM



#46  
 t-1,4-Dichloro-2-butene  
 Concen: 9.737 ug/l m  
 RT: 10.51 min Scan# 2930  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 42060 |       |       |
| 53      | 91.7  | 59.2  | 88.8# |       |
| 89      | 71.7  | 44.9  | 67.3# |       |
| 88      | 52.0  | 32.2  | 48.2# |       |





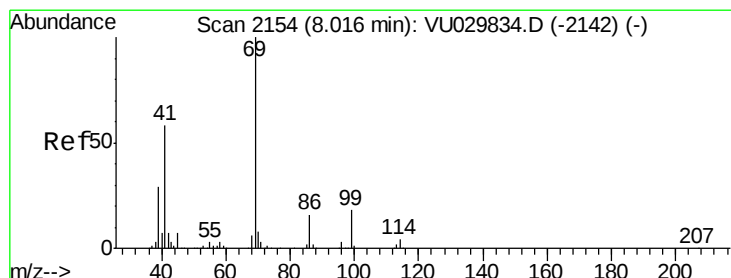
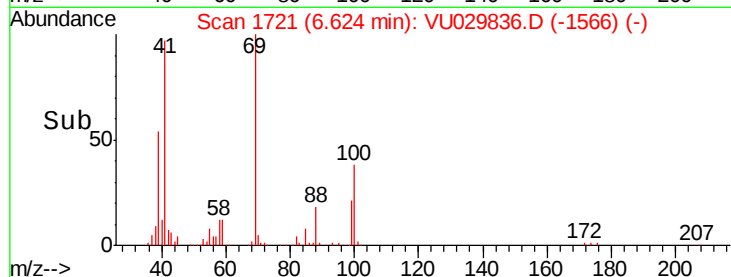
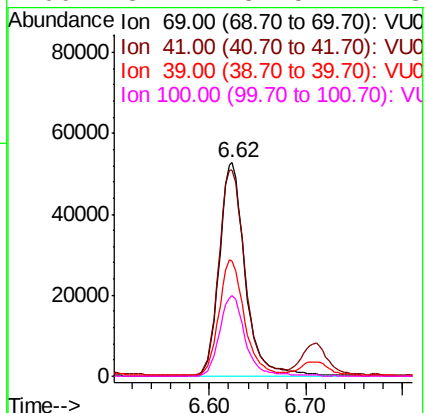
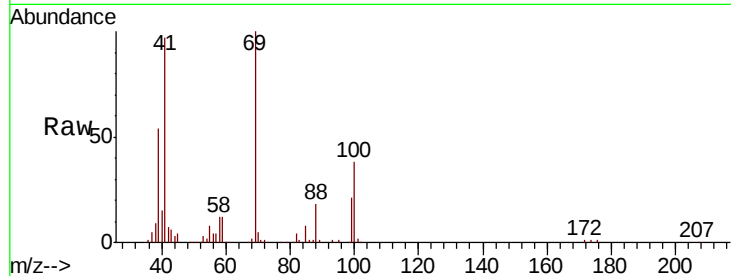
#47  
Methyl methacrylate  
Concen: 11.518 ug/l  
RT: 6.62 min Scan# 1721  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 69      | 100  |       |       |       |
| 41      | 97.4 | 0.0   | 201.0 |       |
| 39      | 52.9 | 43.3  | 64.9  |       |
| 100     | 37.7 | 31.5  | 47.3  |       |

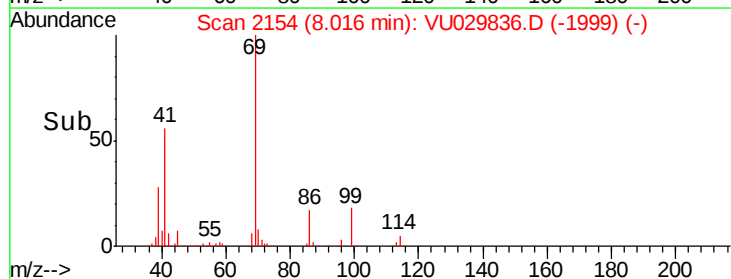
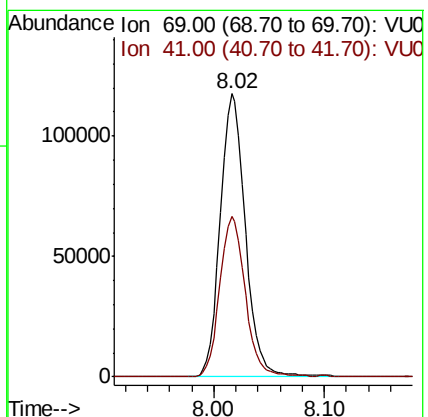
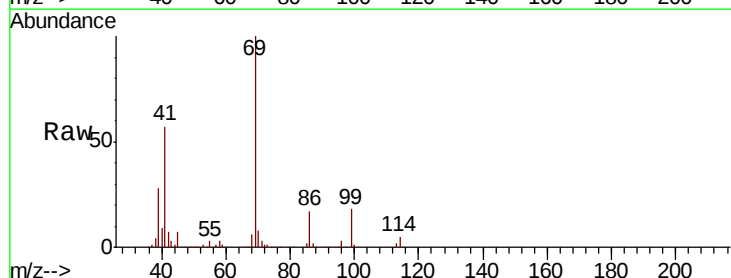
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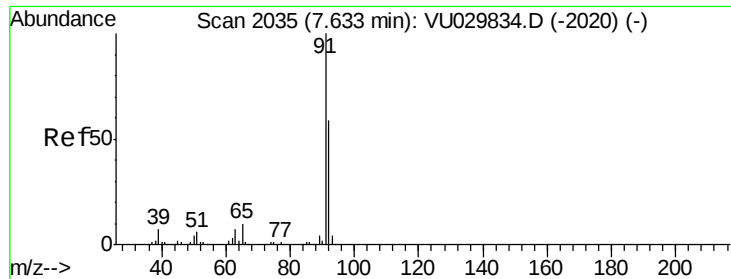
MMDadoda  
3/11/2019 4:50:23 PM



#48  
Ethyl methacrylate  
Concen: 11.432 ug/l  
RT: 8.02 min Scan# 2154  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 69      | 100  |       |       |       |
| 41      | 57.7 | 29.0  | 87.1  |       |





#49

Toluene

Concen: 10.961 ug/l

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 92 Resp: 508312

Ion Ratio Lower Upper

92 100

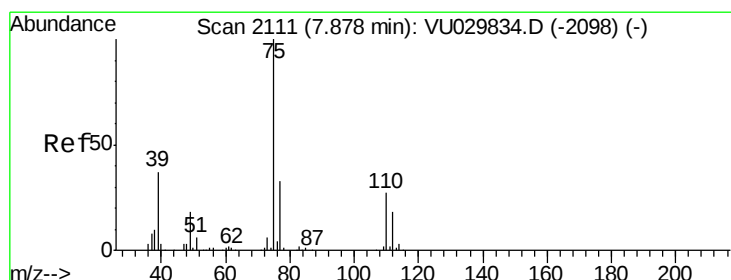
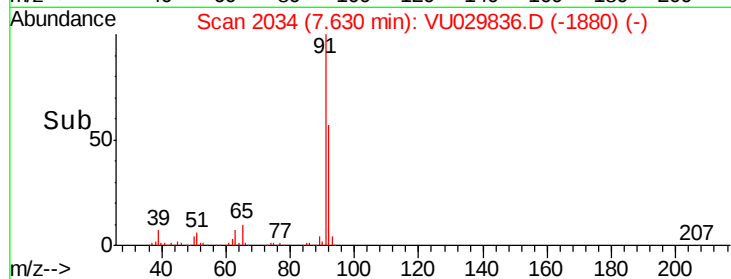
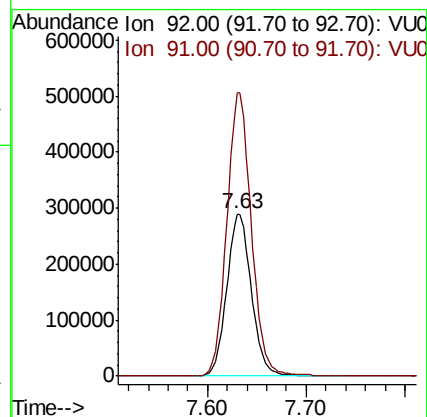
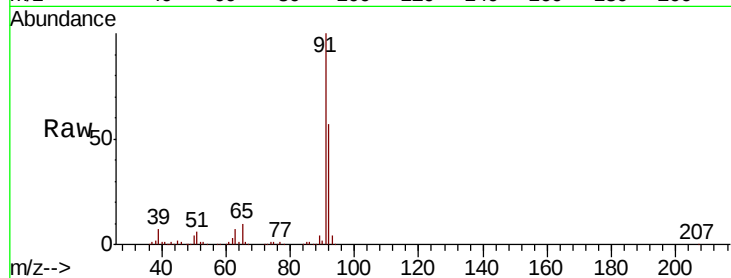
91 174.2 137.8 206.8

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#50

t-1,3-Dichloropropene

Concen: 11.513 ug/l

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU029836.D

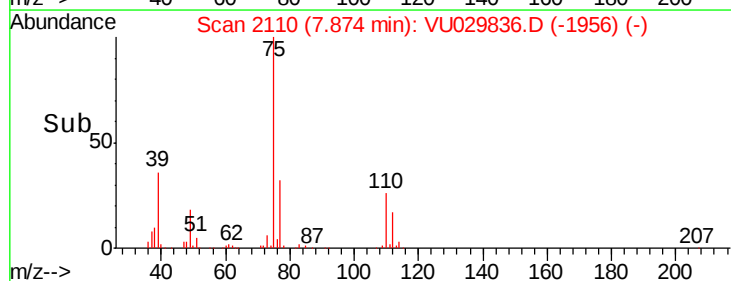
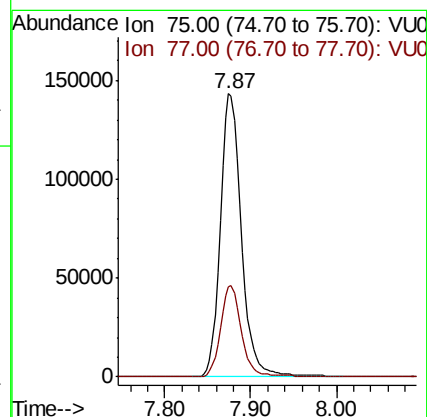
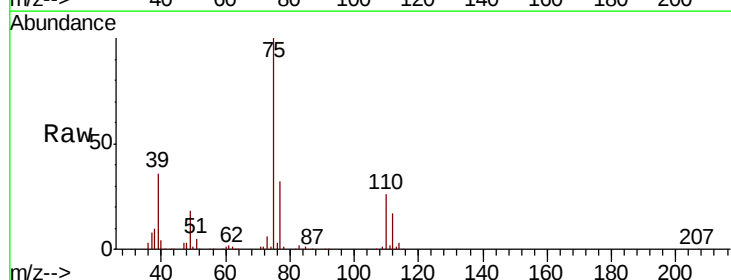
Acq: 06 Mar 2019 13:03

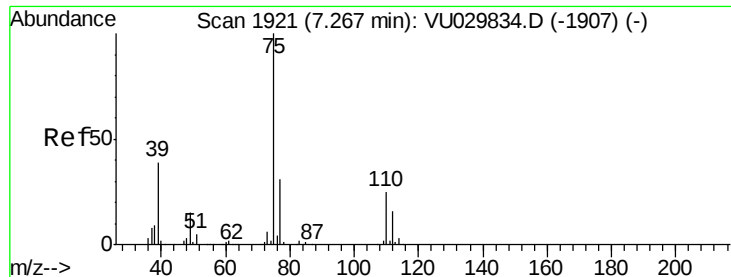
Tgt Ion: 75 Resp: 245475

Ion Ratio Lower Upper

75 100

77 31.7 26.4 39.6





#51

cis-1,3-Dichloropropene

Concen: 11.177 ug/l

RT: 7.26 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

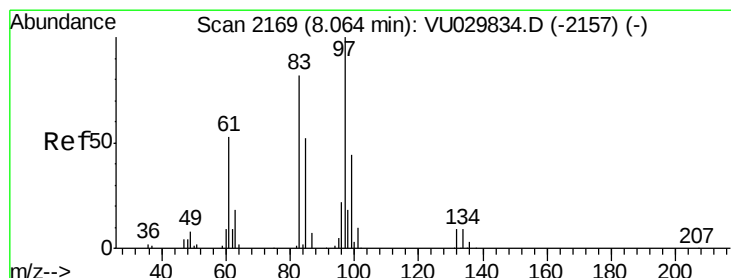
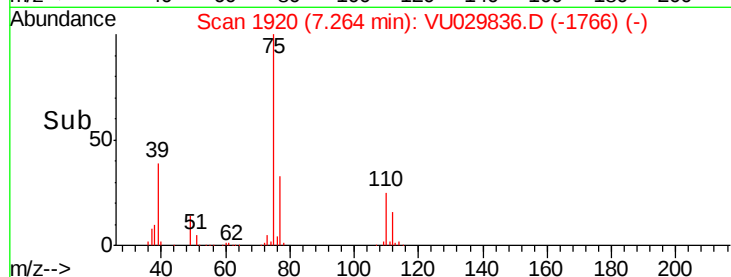
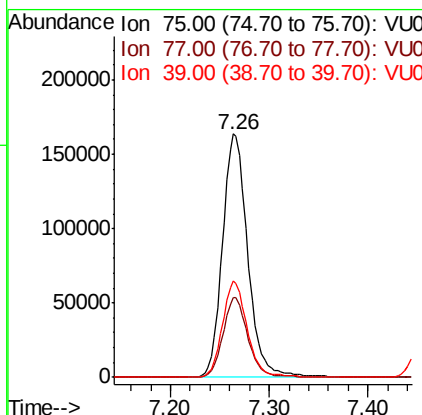
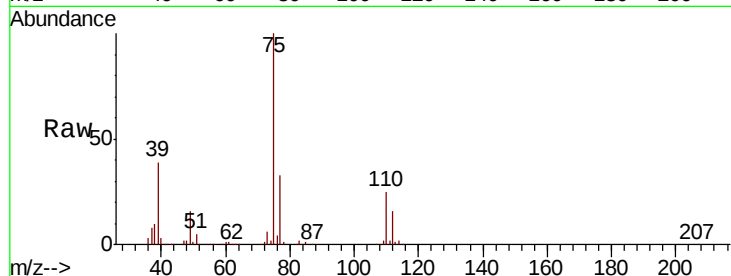
ClientSampleId :

ICVVU030719

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 295008 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 32.7  | 24.9  | 37.3   |
| 39       | 39.5  | 30.8  | 46.2   |

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#52

1,1,2-Trichloroethane

Concen: 10.427 ug/l

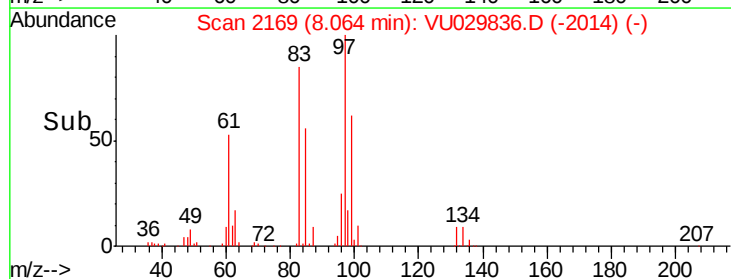
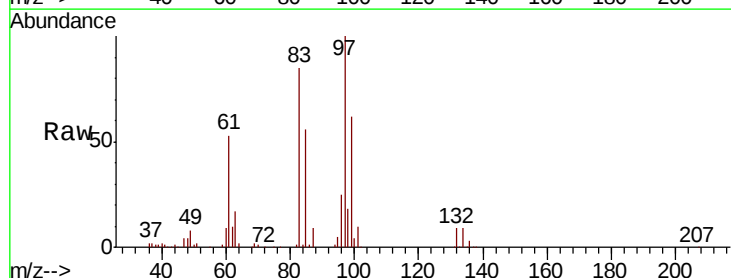
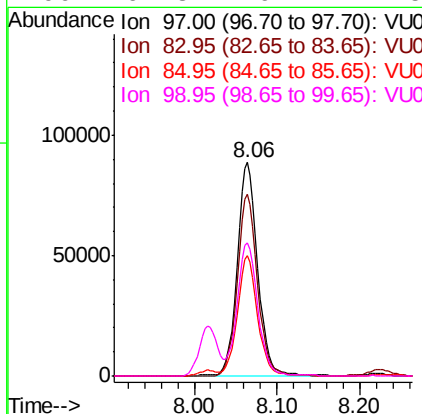
RT: 8.06 min Scan# 2169

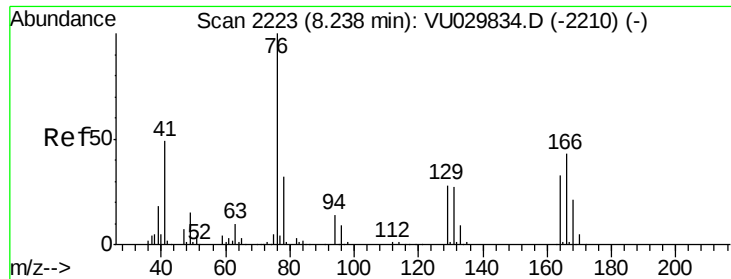
Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 152889 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 85.1  | 65.9  | 98.9   |
| 85       | 56.3  | 43.0  | 64.6   |
| 99       | 62.3  | 49.7  | 74.5   |





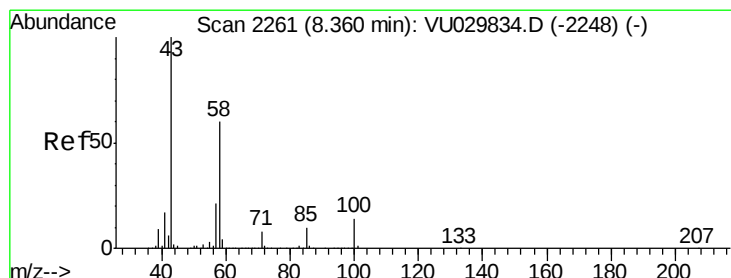
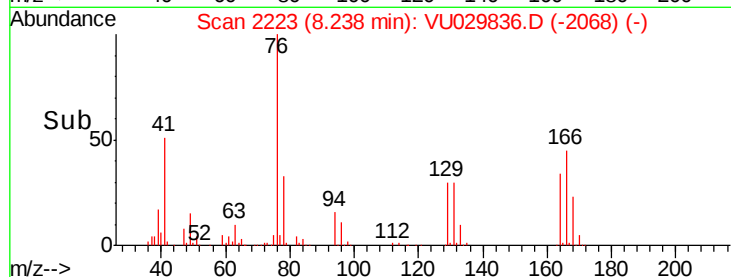
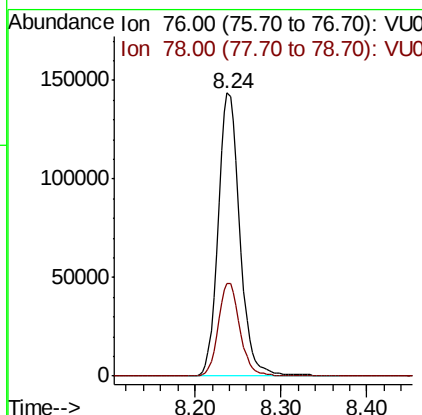
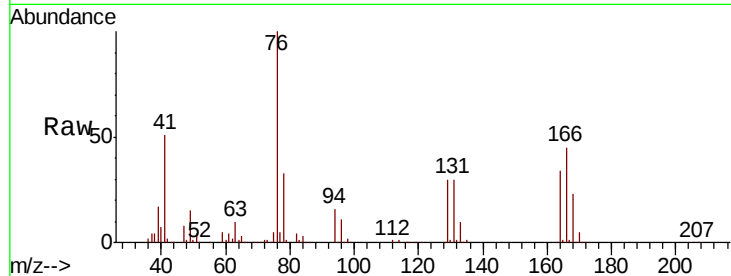
#53  
 1,3-Dichloropropane  
 Concen: 10.481 ug/l  
 RT: 8.24 min Scan# 2223  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

Tgt Ion: 76 Resp: 252075  
 Ion Ratio Lower Upper  
 76 100  
 78 32.9 25.7 38.5

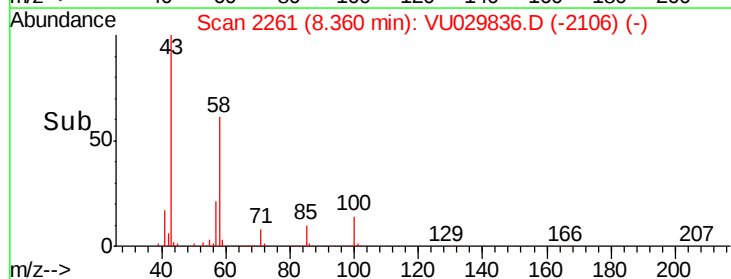
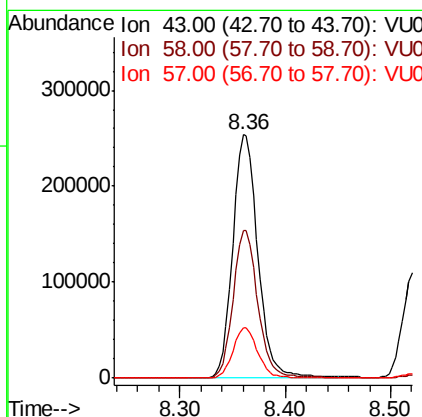
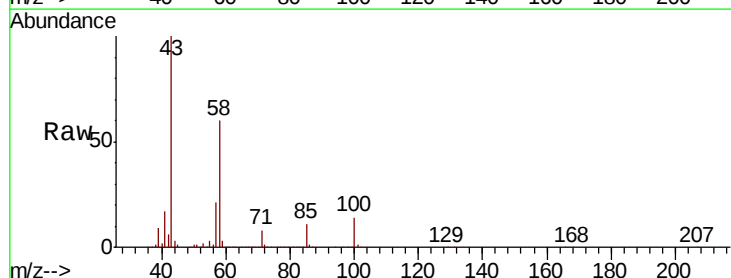
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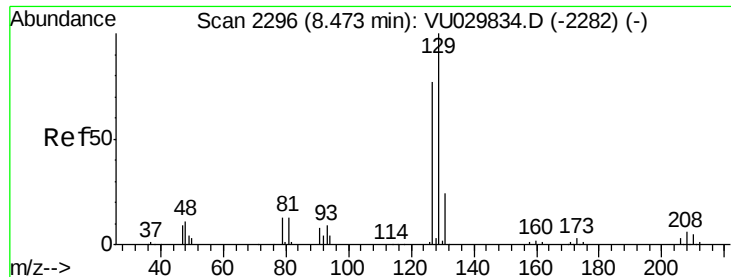
MMDadoda  
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#54  
 2-Hexanone  
 Concen: 58.236 ug/l  
 RT: 8.36 min Scan# 2261  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Tgt Ion: 43 Resp: 417868  
 Ion Ratio Lower Upper  
 43 100  
 58 60.0 39.6 79.6  
 57 20.5 0.5 40.5





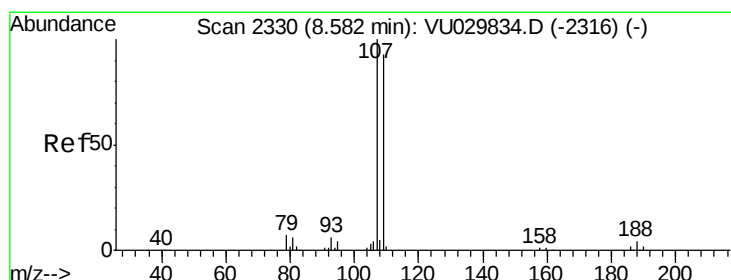
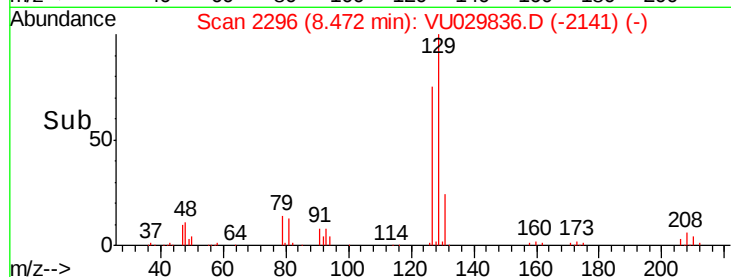
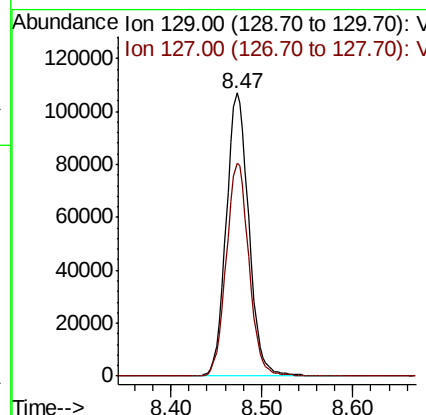
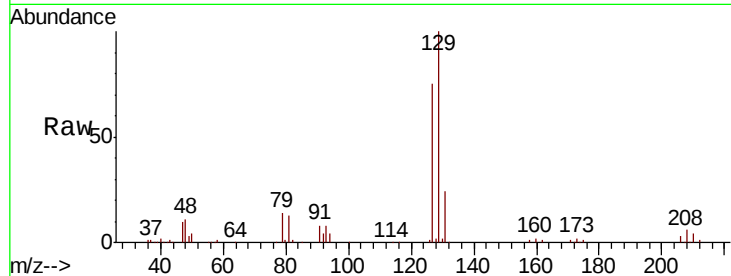
#55  
 Dibromochloromethane  
 Concen: 10.609 ug/l  
 RT: 8.47 min Scan# 2296  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

Tgt Ion:129 Resp: 184623  
 Ion Ratio Lower Upper  
 129 100  
 127 75.8 61.6 92.4

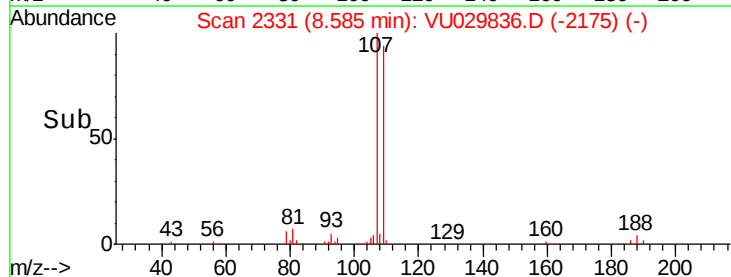
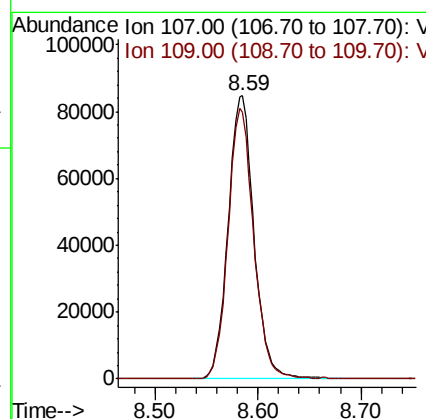
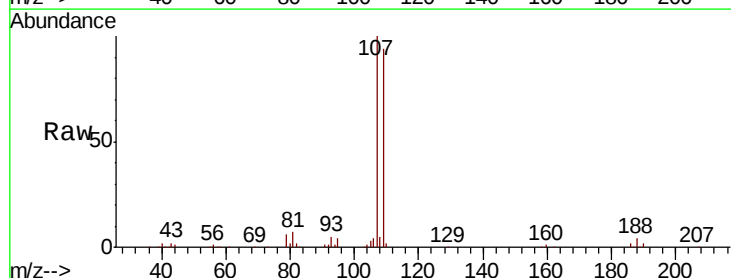
Manual Integrations  
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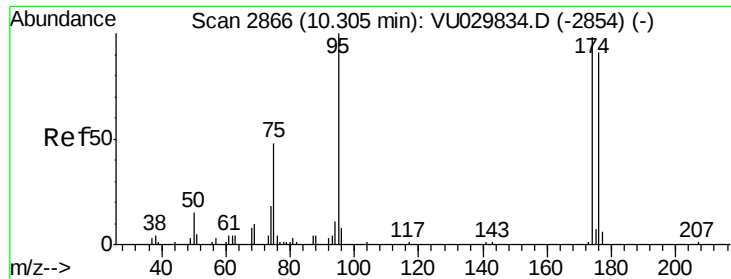
MMDadoda  
 3/11/2019 4:50:23 PM



#56  
 1,2-Dibromoethane  
 Concen: 10.653 ug/l  
 RT: 8.59 min Scan# 2331  
 Delta R.T. 0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Tgt Ion:107 Resp: 148121  
 Ion Ratio Lower Upper  
 107 100  
 109 94.8 0.0 188.4





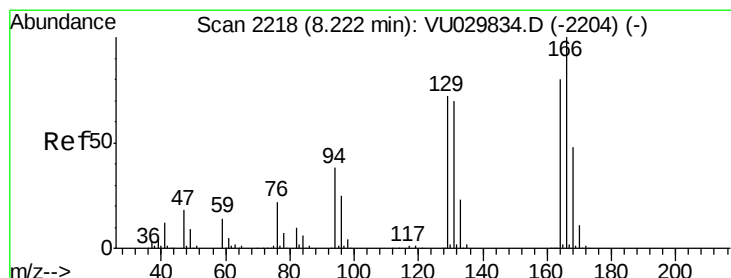
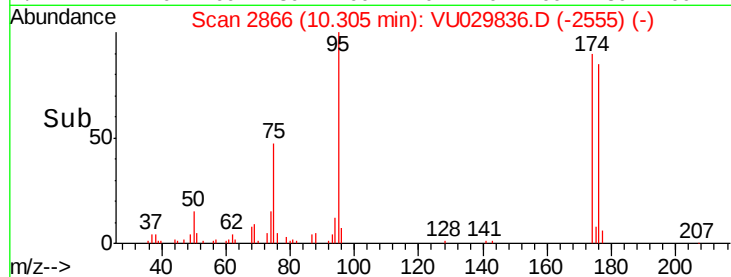
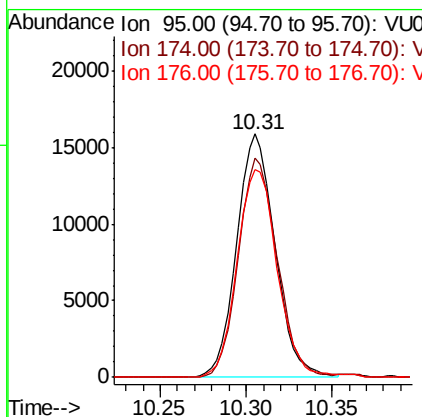
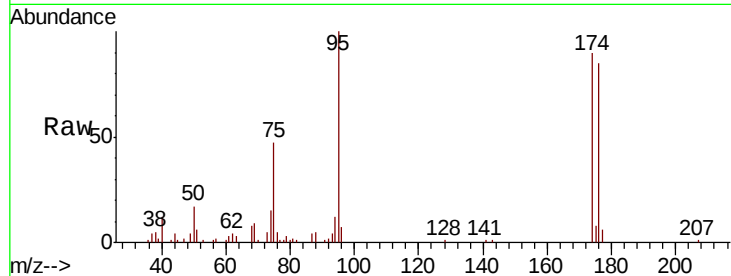
#57  
4-Bromofluorobenzene  
Concen: 10.653 ug/l  
RT: 10.31 min Scan# 2866  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 90.5  | 76.5  | 114.7 |
| 176     | 89.4  | 74.2  | 111.2 |

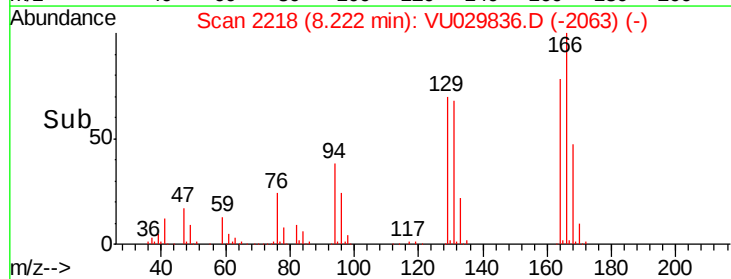
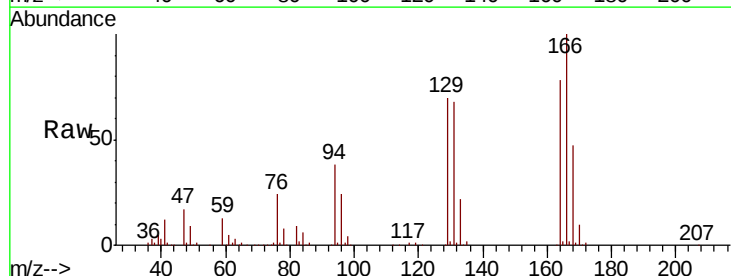
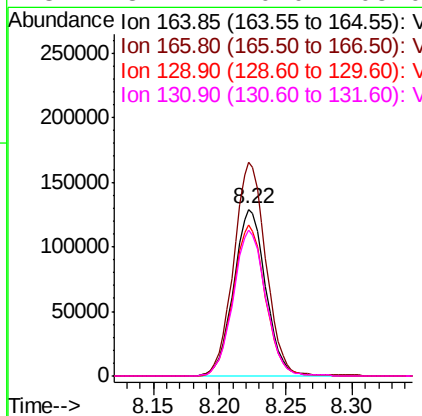
Manual Integrations  
APPROVED

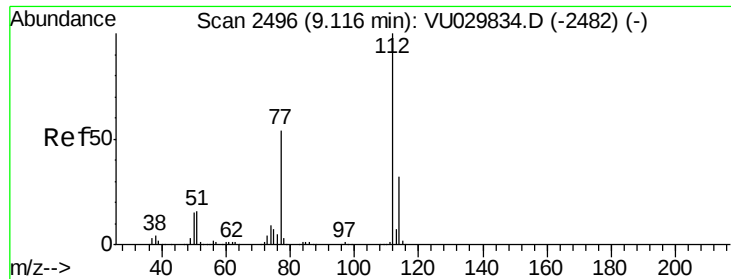
MMDadoda  
3/11/2019 4:50:23 PM



#58  
Tetrachloroethene  
Concen: 9.621 ug/l  
RT: 8.22 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 127.9 | 100.5 | 150.7 |
| 129     | 90.1  | 72.3  | 108.5 |
| 131     | 87.1  | 70.0  | 105.0 |





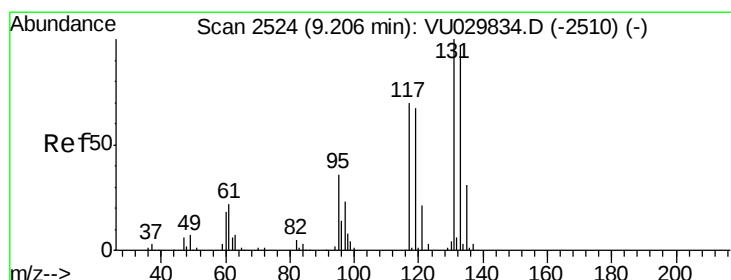
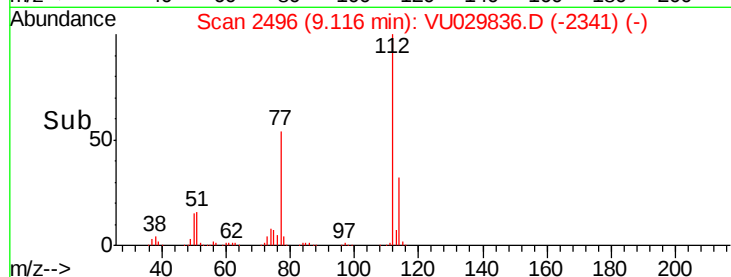
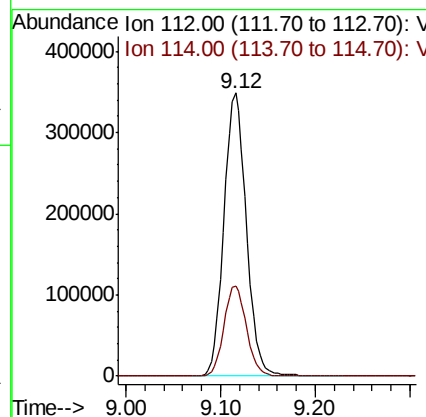
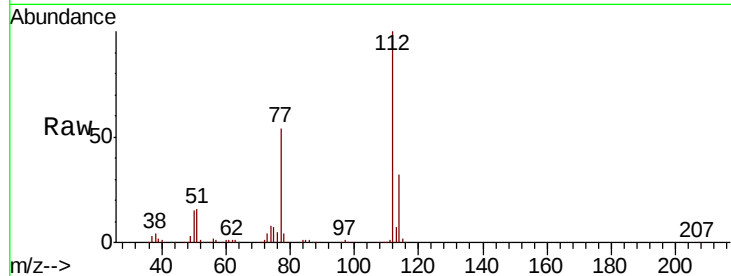
#59  
Chlorobenzene  
Concen: 10.780 ug/l  
RT: 9.12 min Scan# 2496  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

Tgt Ion:112 Resp: 574526  
Ion Ratio Lower Upper  
112 100  
114 32.0 25.4 38.2

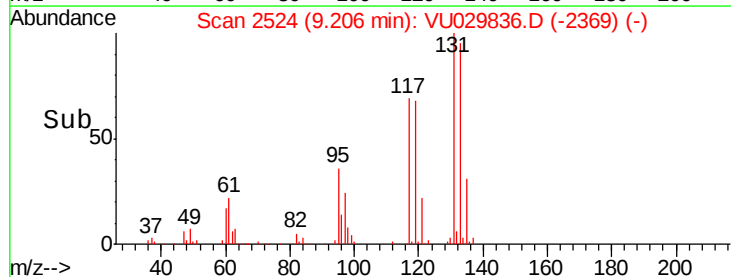
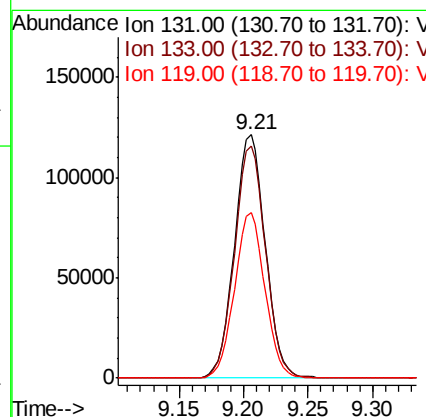
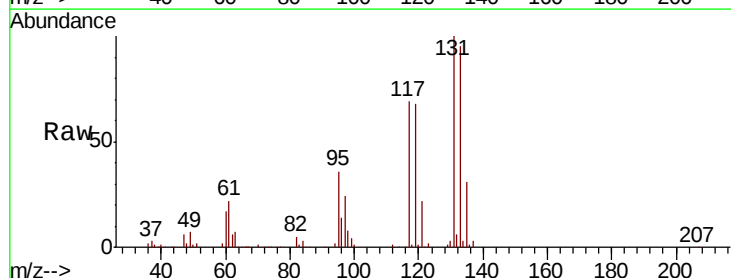
Manual Integrations  
APPROVED

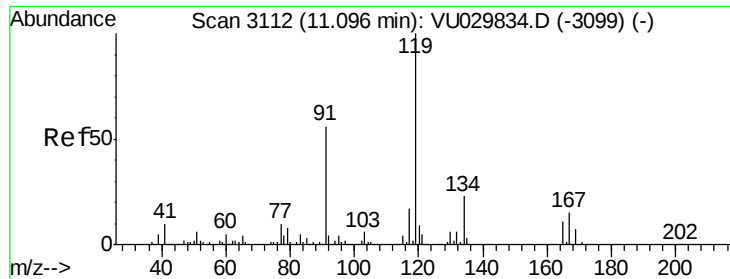
MMDadoda  
3/11/2019 4:50:23 PM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 10.545 ug/l  
RT: 9.21 min Scan# 2524  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Tgt Ion:131 Resp: 201601  
Ion Ratio Lower Upper  
131 100  
133 96.2 76.4 114.6  
119 67.1 54.2 81.4





#61

Pentachloroethane

Concen: 11.769 ug/l

RT: 11.10 min Scan# 3113

Delta R.T. 0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion:117 Resp: 156640

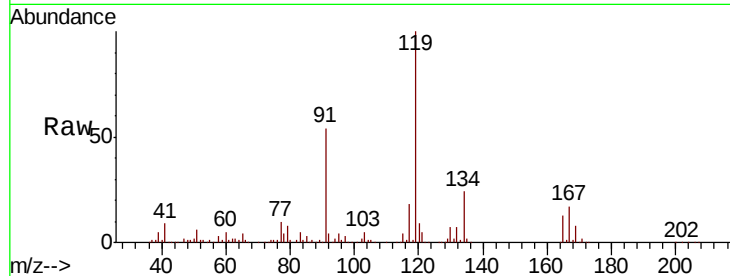
Ion Ratio Lower Upper

117 100

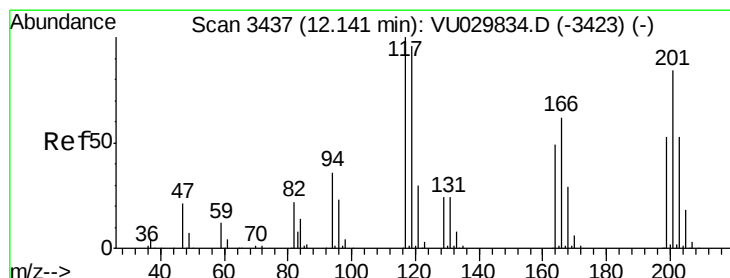
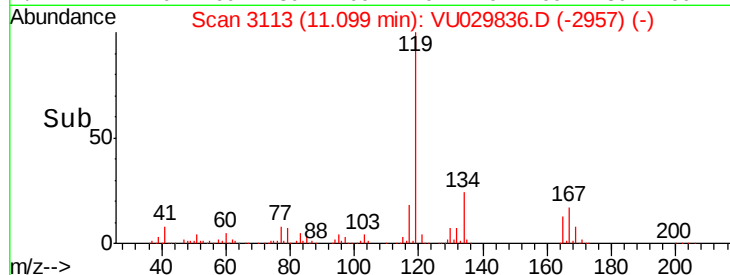
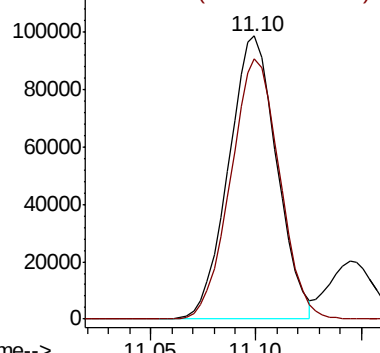
167 93.1 71.4 107.2

Manual Integrations  
APPROVED

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Abundance Ion 116.80 (116.50 to 117.50): V



#62

Hexachloroethane

Concen: 11.652 ug/l

RT: 12.14 min Scan# 3437

Delta R.T. -0.00 min

Lab File: VU029836.D

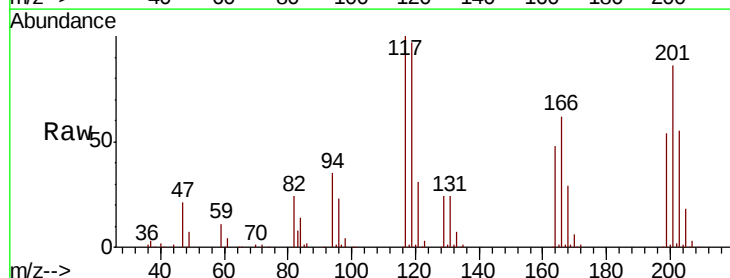
Acq: 06 Mar 2019 13:03

Tgt Ion:117 Resp: 163159

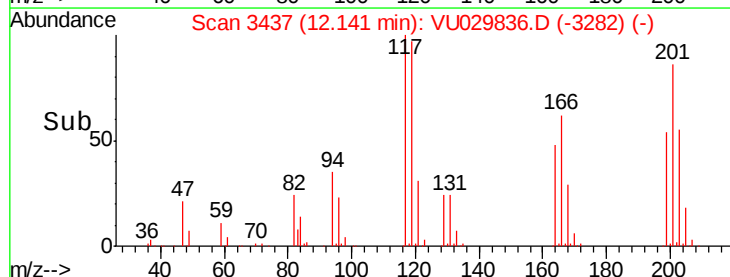
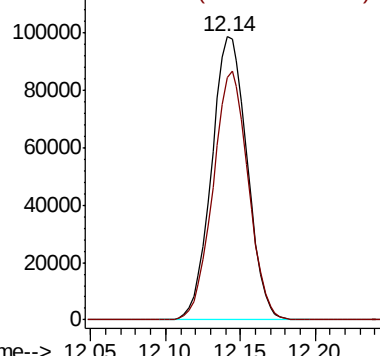
Ion Ratio Lower Upper

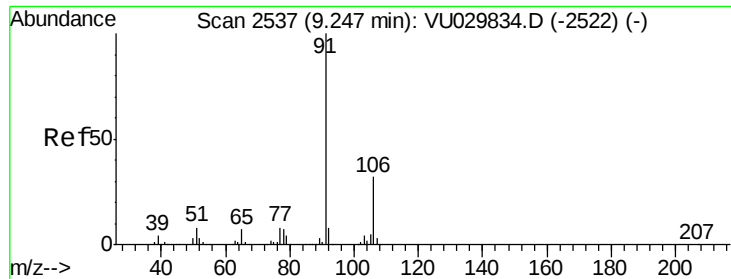
117 100

201 87.0 68.2 102.2



Abundance Ion 116.80 (116.50 to 117.50): V





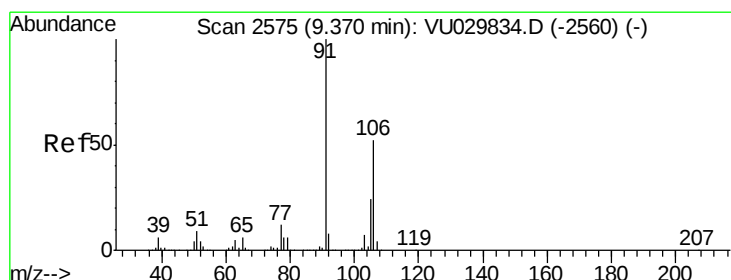
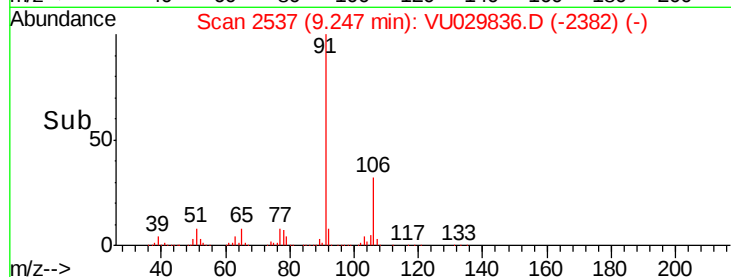
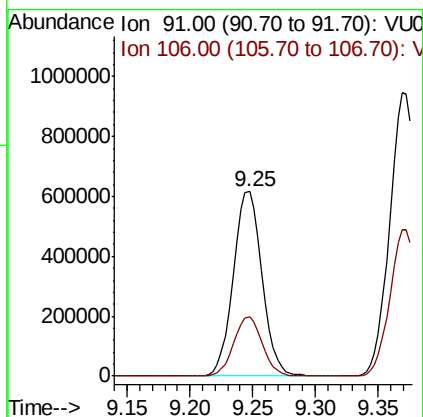
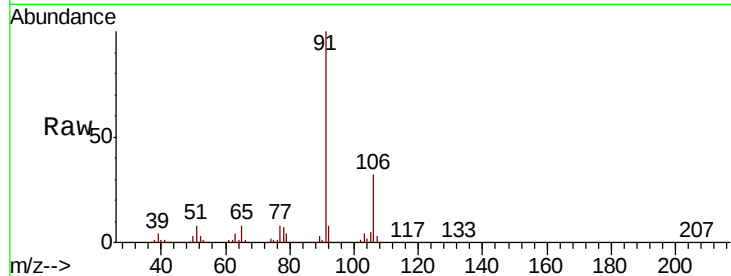
#63  
Ethyl Benzene  
Concen: 11.237 ug/l  
RT: 9.25 min Scan# 2537  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

Tgt Ion: 91 Resp: 981003  
Ion Ratio Lower Upper  
91 100  
106 32.1 25.7 38.5

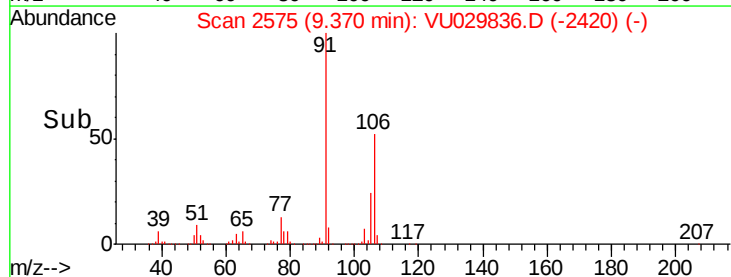
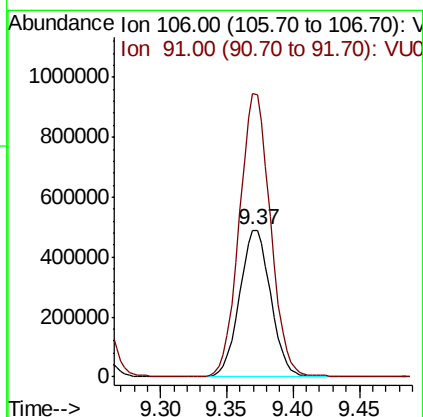
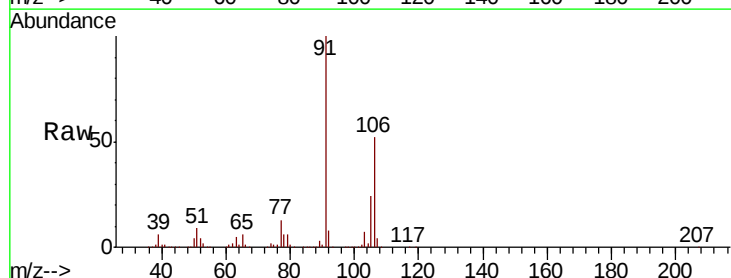
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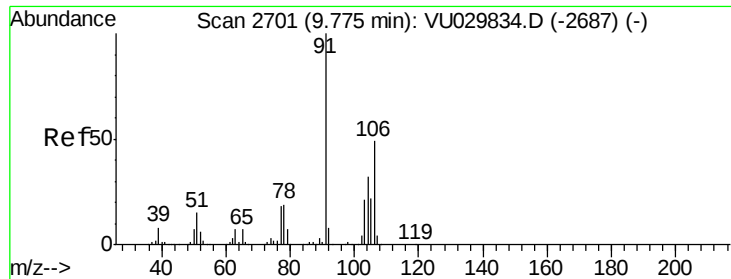
MMDadoda  
3/11/2019 4:50:23 PM



#64  
m/p-Xylenes  
Concen: 23.063 ug/l  
RT: 9.37 min Scan# 2575  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Tgt Ion: 106 Resp: 795966  
Ion Ratio Lower Upper  
106 100  
91 193.8 155.3 232.9





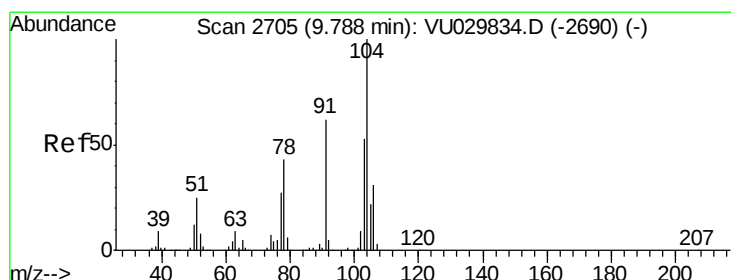
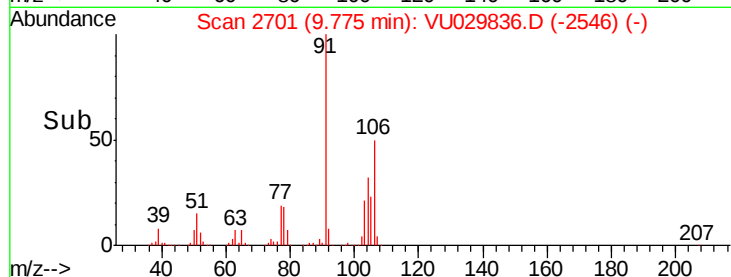
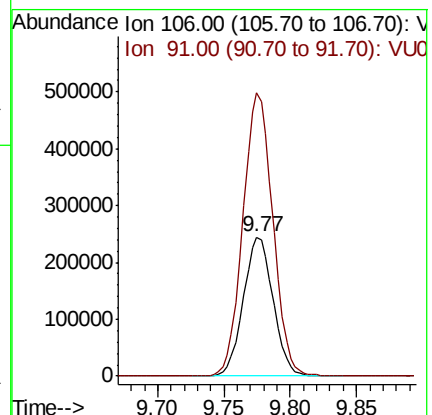
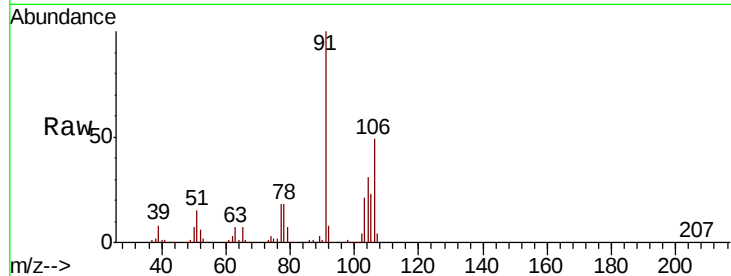
#65  
o-Xylene  
Concen: 11.483 ug/l  
RT: 9.77 min Scan# 2701  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

Tgt Ion:106 Resp: 380619  
Ion Ratio Lower Upper  
106 100  
91 204.9 102.8 308.3

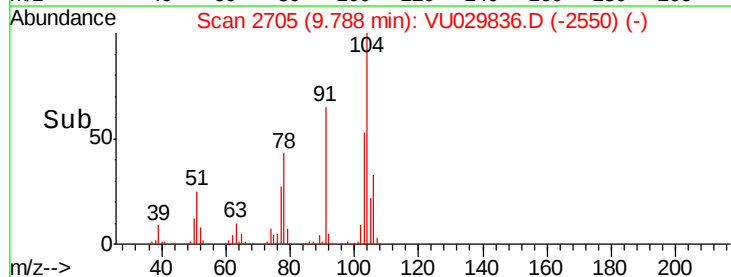
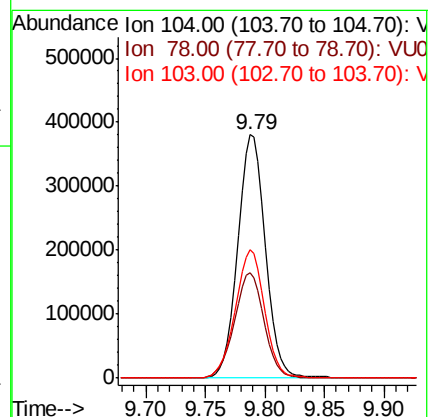
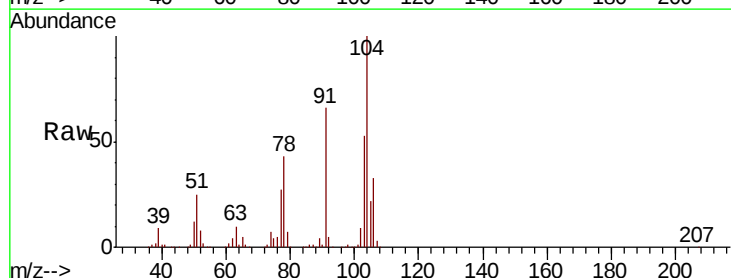
Manual Integrations  
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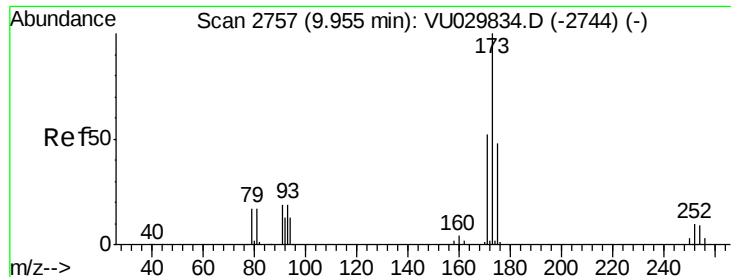
MMDadoda  
3/11/2019 4:50:23 PM



#66  
Styrene  
Concen: 11.155 ug/l  
RT: 9.79 min Scan# 2705  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Tgt Ion:104 Resp: 614286  
Ion Ratio Lower Upper  
104 100  
78 46.7 37.2 55.8  
103 55.8 44.7 67.1





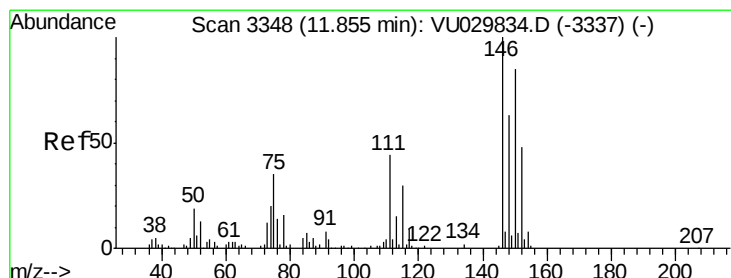
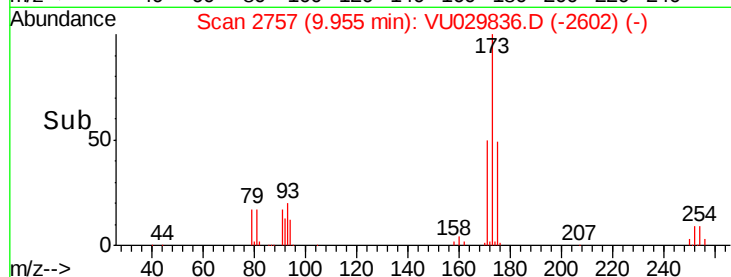
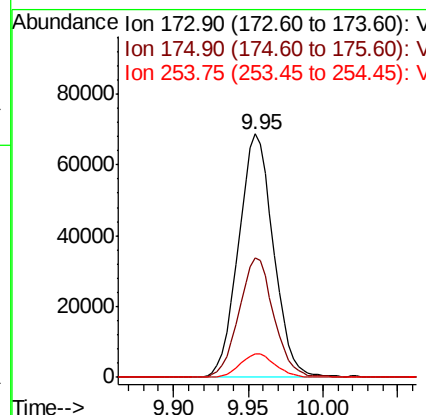
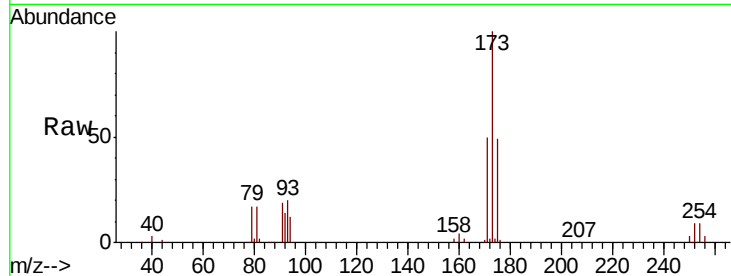
#67  
Bromoform  
Concen: 10.942 ug/l  
RT: 9.95 min Scan# 2757  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.2  | 38.6  | 57.8  |
| 254     | 9.6   | 7.4   | 11.2  |

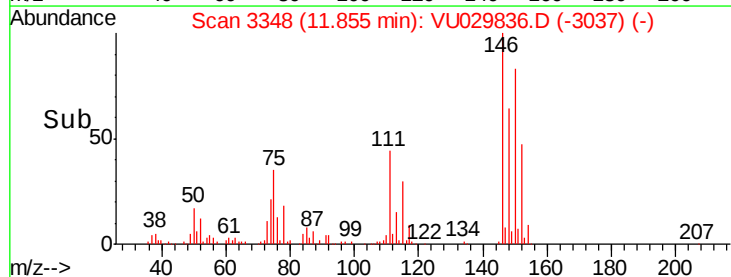
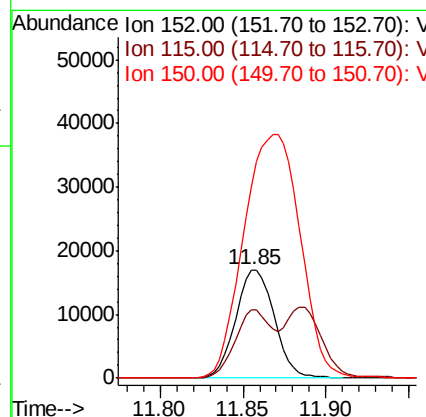
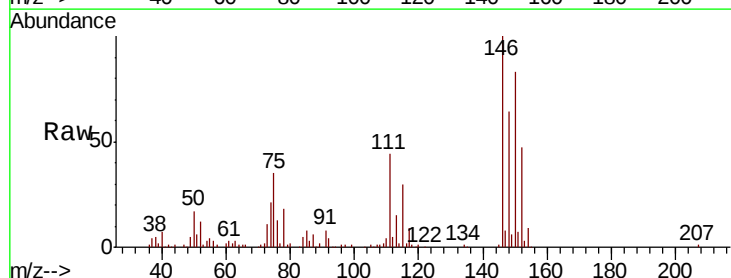
Manual Integrations  
APPROVED

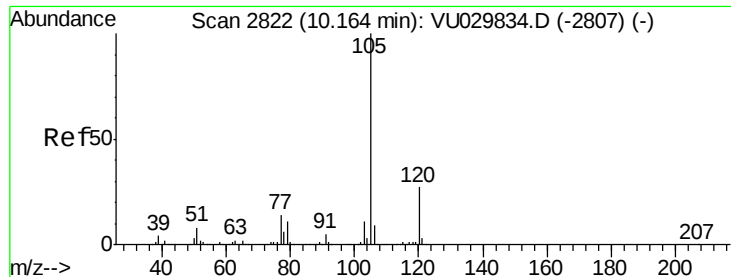
MMDadoda  
3/11/2019 4:50:23 PM



#68  
1,2-Dichlorobenzene-d4  
Concen: 10.942 ug/l  
RT: 11.85 min Scan# 3348  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.0  | 0.0   | 124.0 |
| 150     | 0.0   | 0.0   | 631.2 |





#69

Isopropylbenzene

Concen: 11.604 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 105 Resp: 1019979

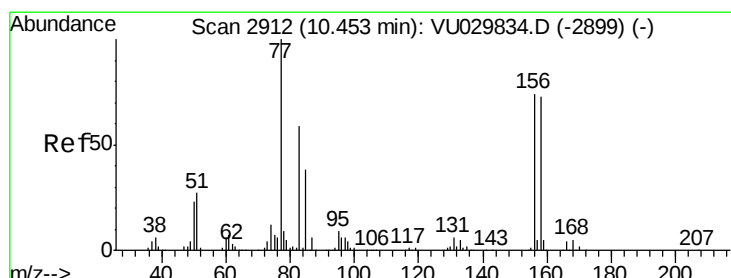
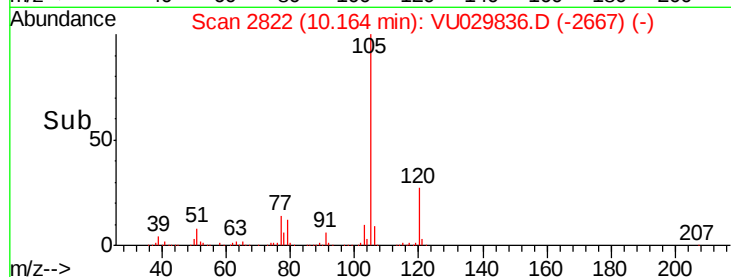
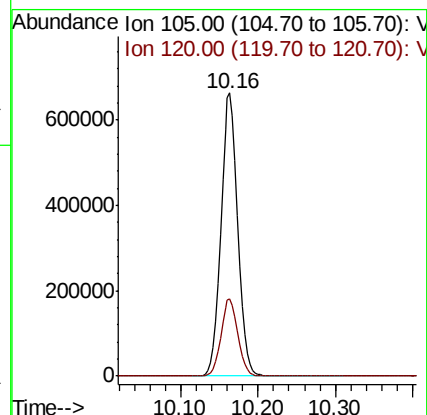
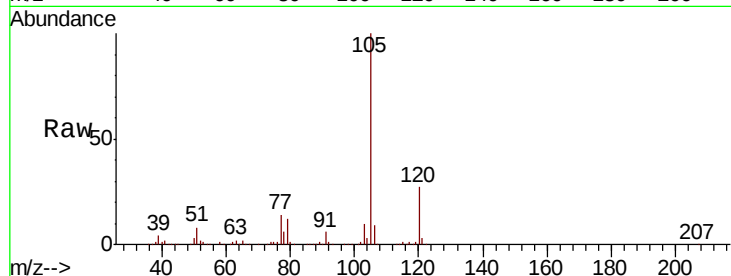
Ion Ratio Lower Upper

105 100

120 27.5 13.5 40.5

Manual Integrations  
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3/11/2019 4:50:23 PM



#70

1,1,2,2-Tetrachloroethane

Concen: 10.348 ug/l

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

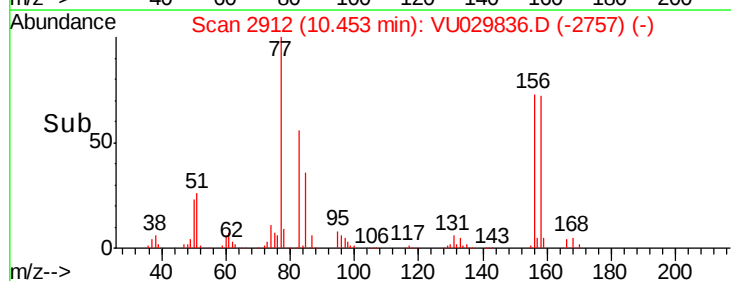
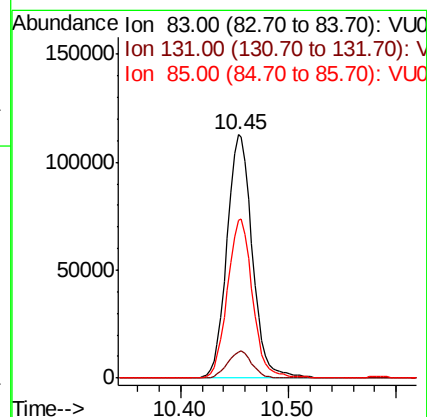
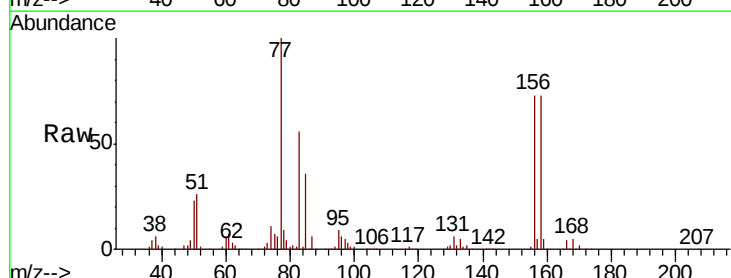
Tgt Ion: 83 Resp: 185052

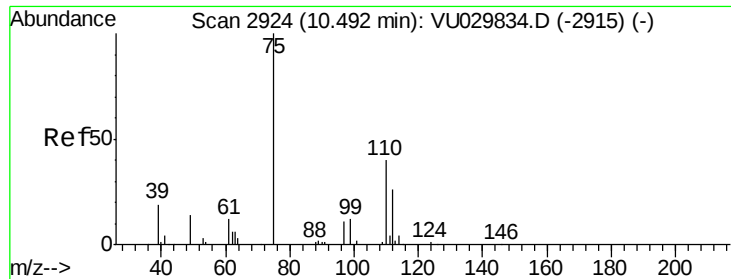
Ion Ratio Lower Upper

83 100

131 10.6 8.3 12.5

85 64.8 52.5 78.7





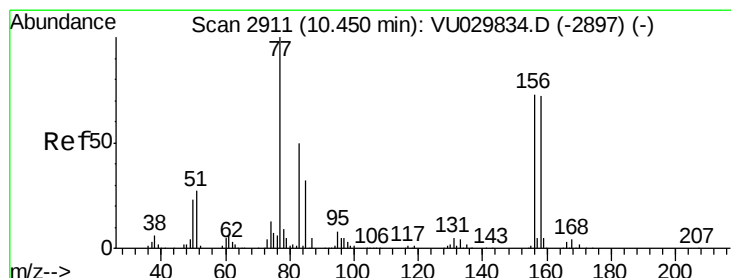
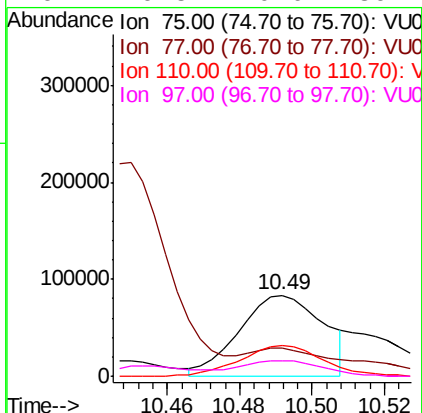
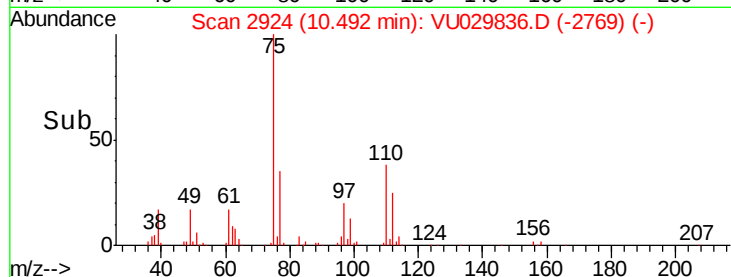
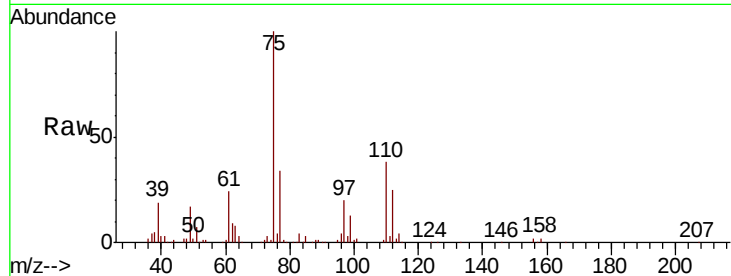
#71  
1,2,3-Trichloropropane  
Concen: 10.145 ug/l m  
RT: 10.49 min Scan# 2924  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 134837 |       |       |
| 77      | 44.2  | 0.0    | 16.4# |       |
| 110     | 37.7  | 0.0    | 74.8  |       |
| 97      | 19.5  | 0.0    | 39.4  |       |

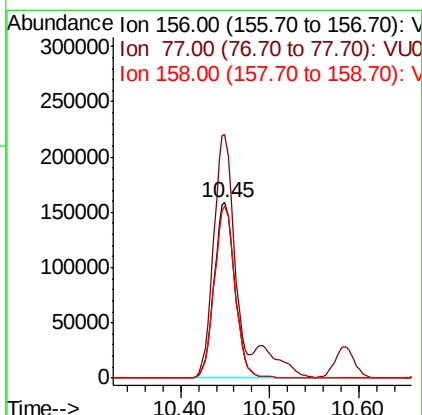
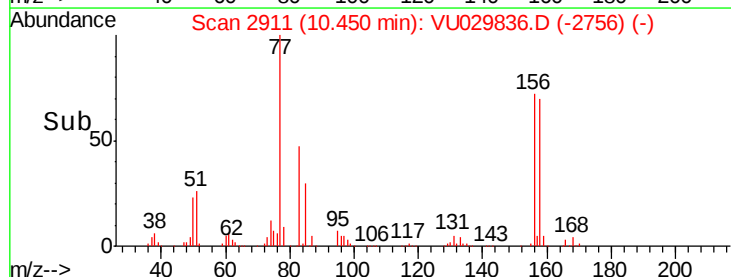
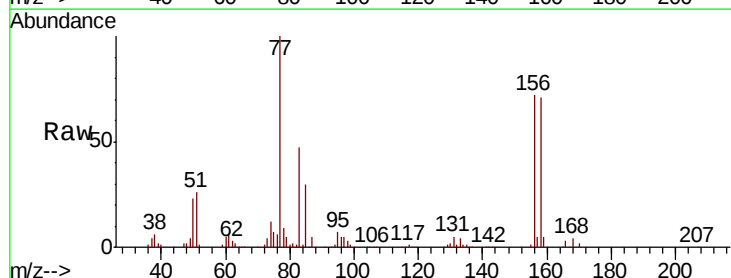
Manual Integrations  
APPROVED

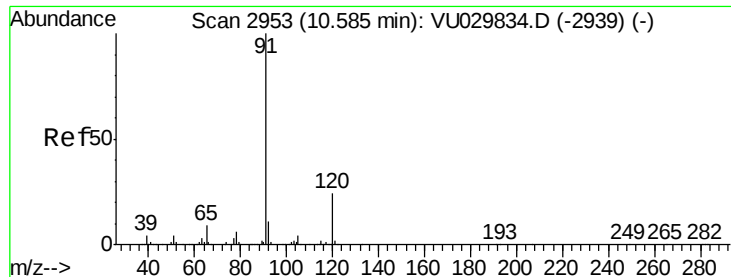
MMDadoda  
3/11/2019 4:50:23 PM



#72  
Bromobenzene  
Concen: 10.988 ug/l  
RT: 10.45 min Scan# 2911  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 156     | 100   | 255635 |       |       |
| 77      | 139.1 | 0.0    | 282.2 |       |
| 158     | 98.0  | 0.0    | 196.2 |       |





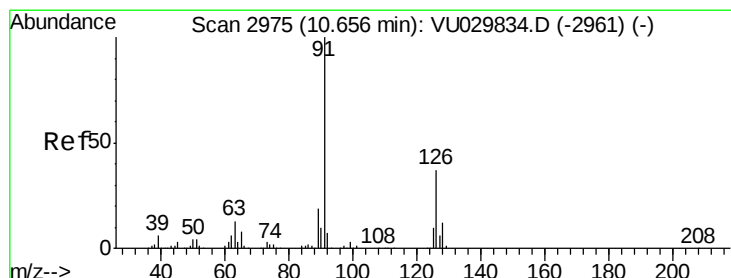
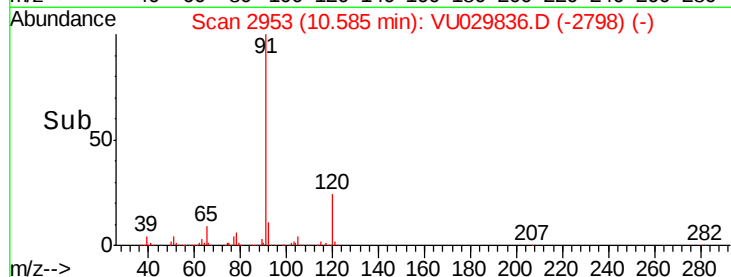
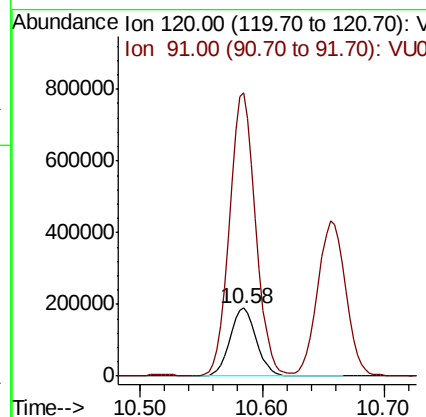
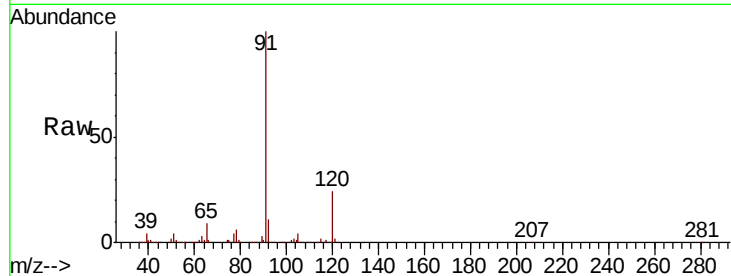
#73  
n-propylbenzene  
Concen: 11.694 ug/l  
RT: 10.58 min Scan# 2953  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

Tgt Ion:120 Resp: 288955  
Ion Ratio Lower Upper  
120 100  
91 410.6 333.4 500.2

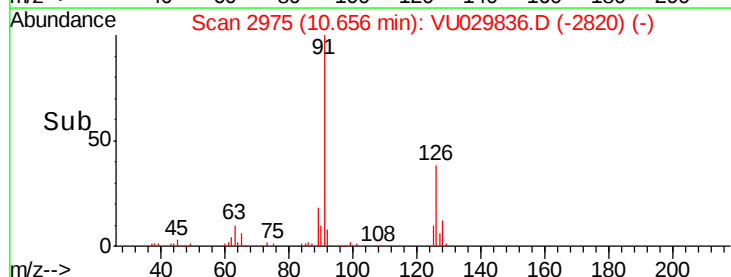
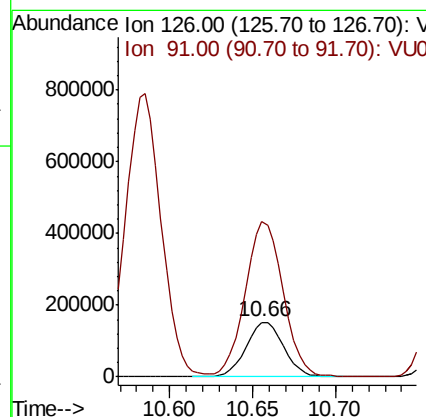
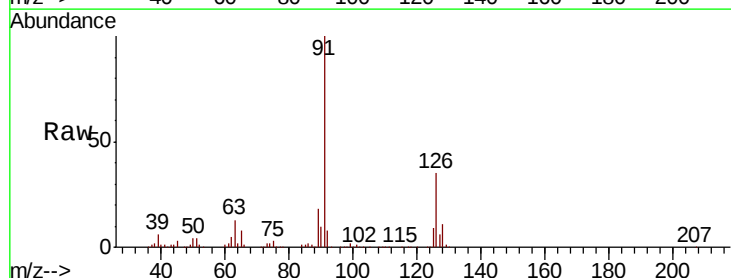
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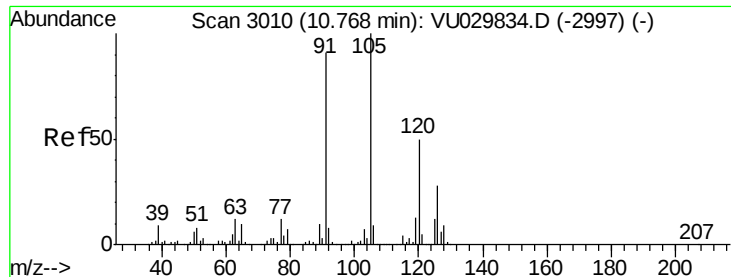
MMDadoda  
3/11/2019 4:50:23 PM



#74  
2-Chlorotoluene  
Concen: 10.958 ug/l  
RT: 10.66 min Scan# 2975  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Tgt Ion:126 Resp: 240184  
Ion Ratio Lower Upper  
126 100  
91 285.6 0.0 569.0





#75

1,3,5-Trimethylbenzene

Concen: 11.662 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion:105 Resp: 863496

Ion Ratio Lower Upper

105 100

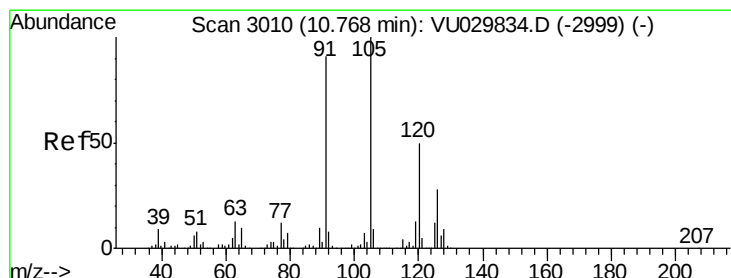
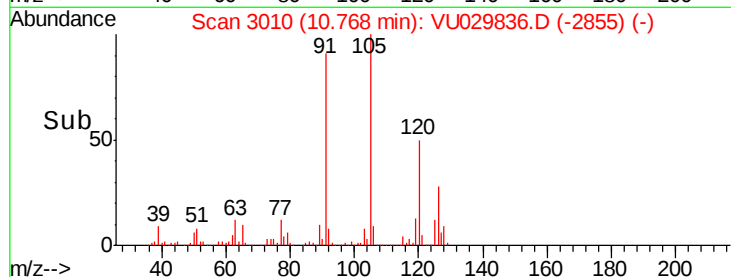
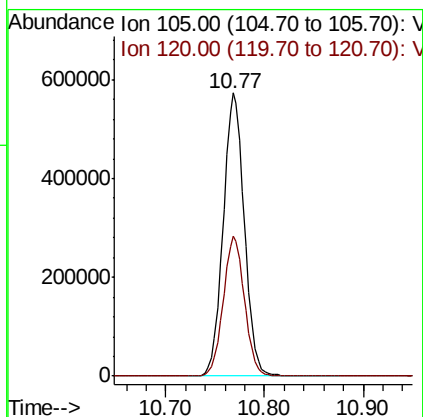
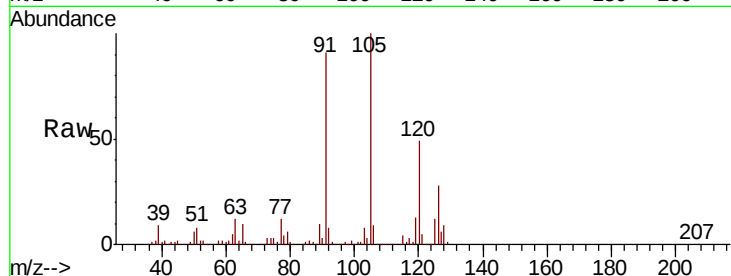
120 49.8 40.0 60.0

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#76

4-Chlorotoluene

Concen: 11.188 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. -0.00 min

Lab File: VU029836.D

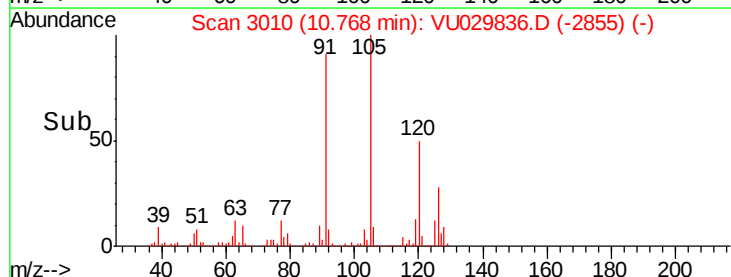
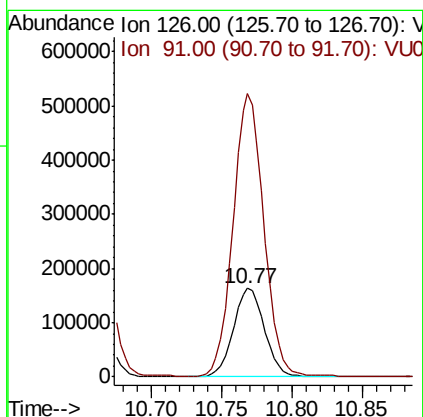
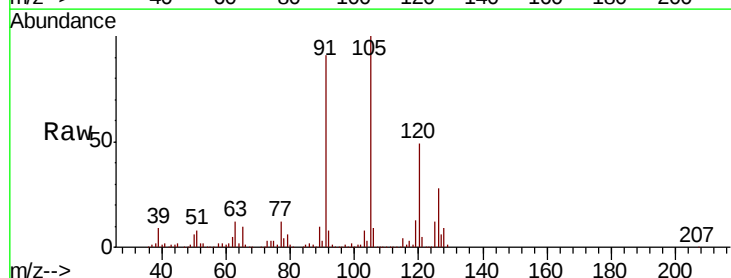
Acq: 06 Mar 2019 13:03

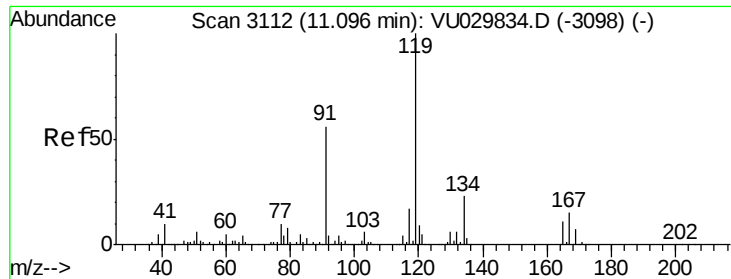
Tgt Ion:126 Resp: 250061

Ion Ratio Lower Upper

126 100

91 317.9 0.0 634.8





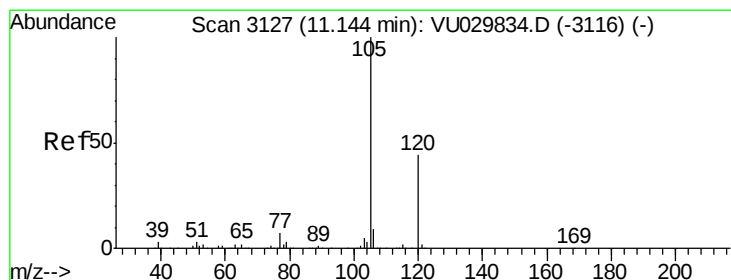
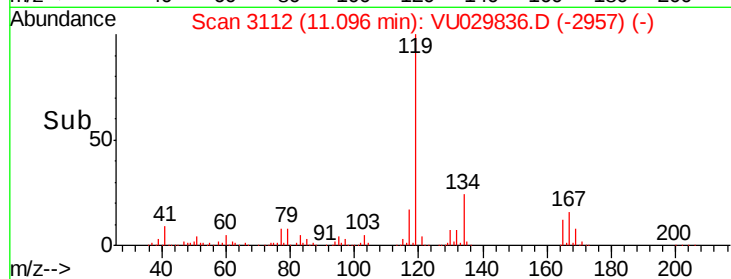
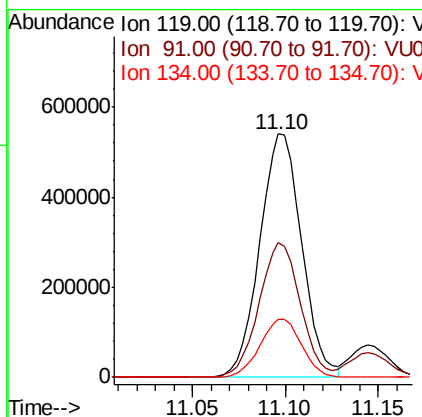
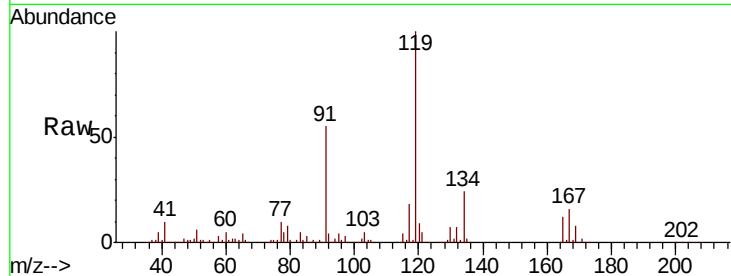
#77  
 tert-Butylbenzene  
 Concen: 11.574 ug/l  
 RT: 11.10 min Scan# 3112  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 847930 |       |       |
| 91      | 54.4  | 27.7   | 83.1  |       |
| 134     | 23.6  | 18.7   | 28.1  |       |

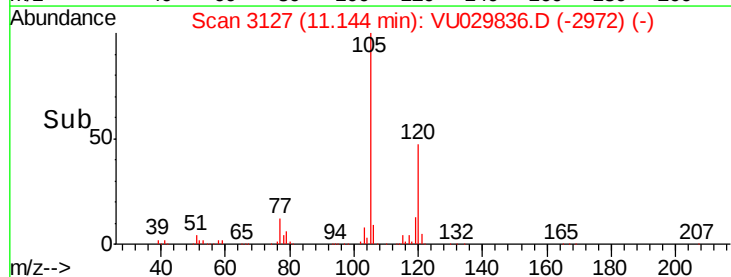
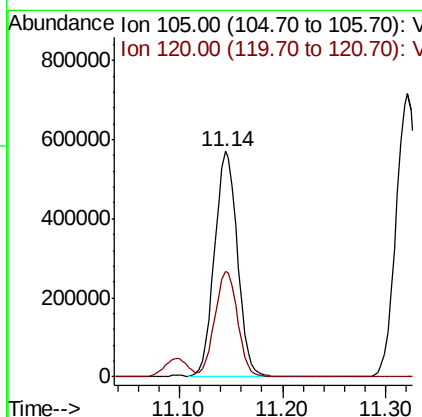
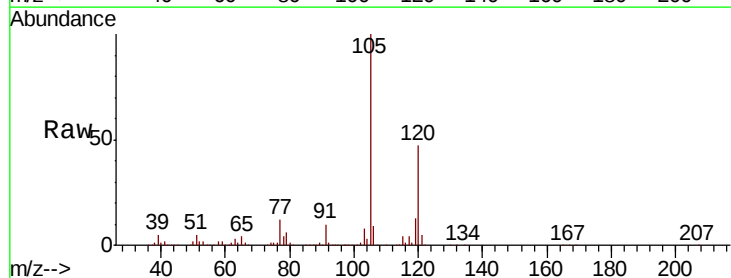
Manual Integrations  
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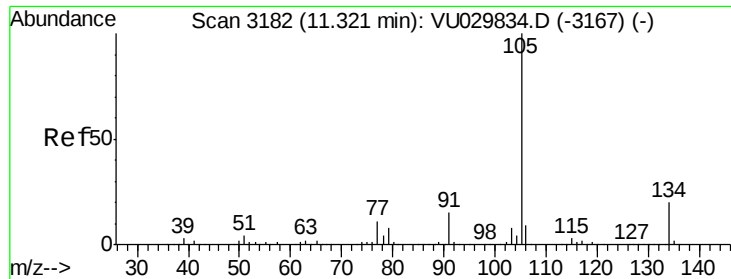
MMDadoda  
 3/11/2019 4:50:23 PM



#78  
 1,2,4-Trimethylbenzene  
 Concen: 11.717 ug/l  
 RT: 11.14 min Scan# 3127  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 876735 |       |       |
| 120     | 46.7  | 23.5   | 70.5  |       |





#79

sec-Butylbenzene

Concen: 11.210 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU030719

Tgt Ion: 105 Resp: 1088466

Ion Ratio Lower Upper

105 100

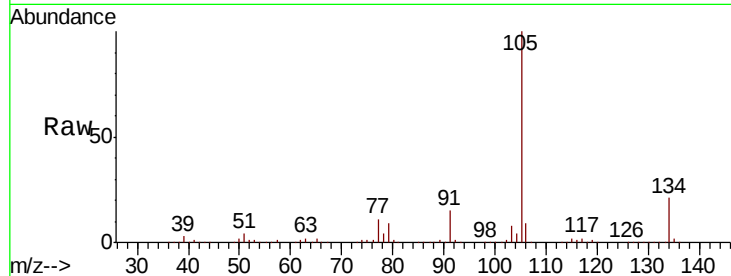
134 20.4 16.3 24.5

Manual Integrations

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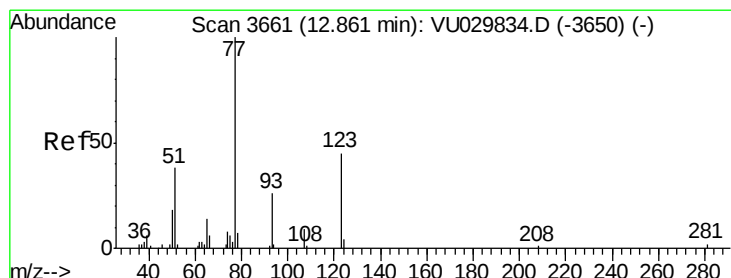
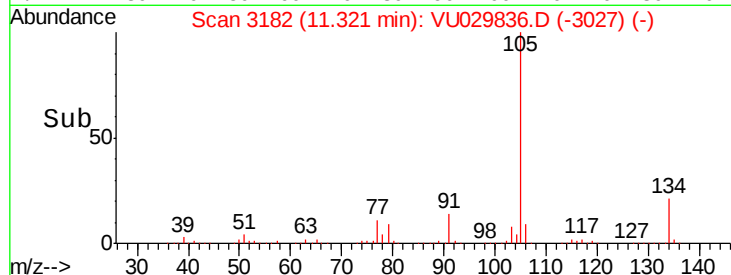
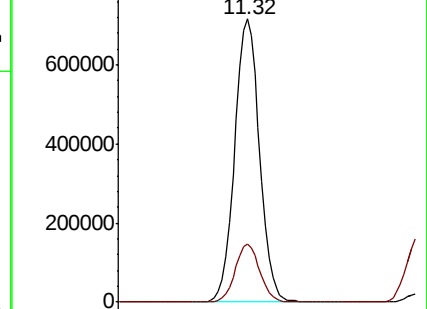
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 10.741 ug/l

RT: 12.86 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VU029836.D

Acq: 06 Mar 2019 13:03

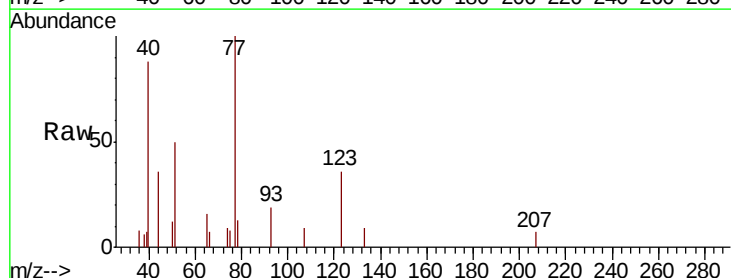
Tgt Ion: 77 Resp: 3487

Ion Ratio Lower Upper

77 100

123 41.9 20.2 71.4

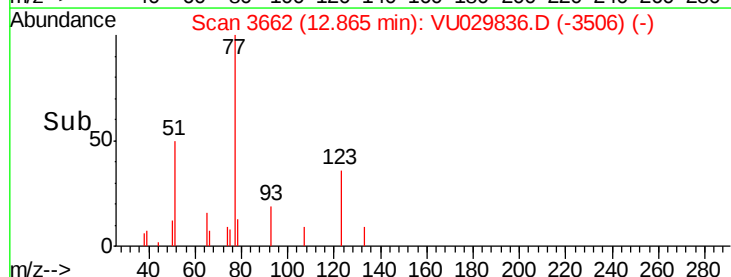
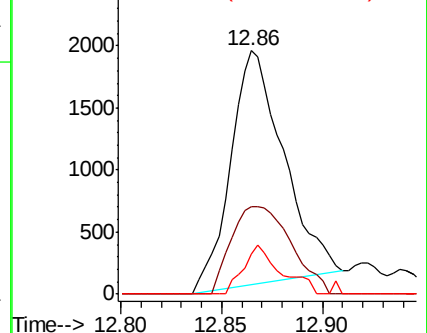
65 0.0 14.0 17.8#

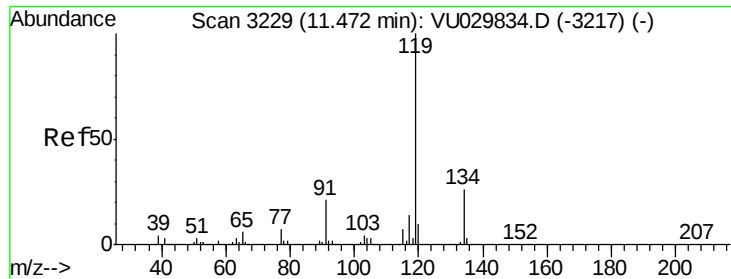


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





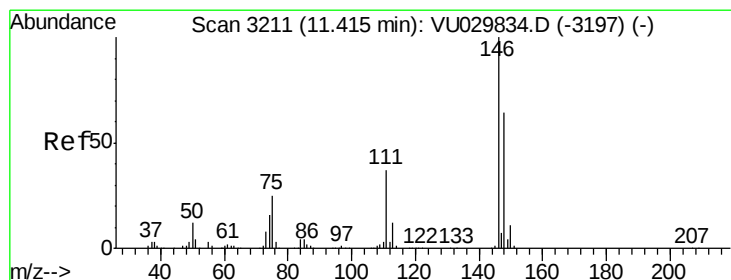
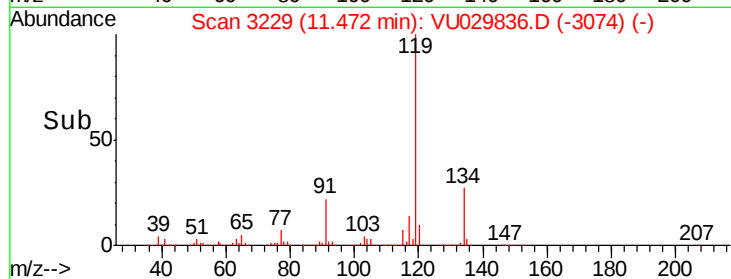
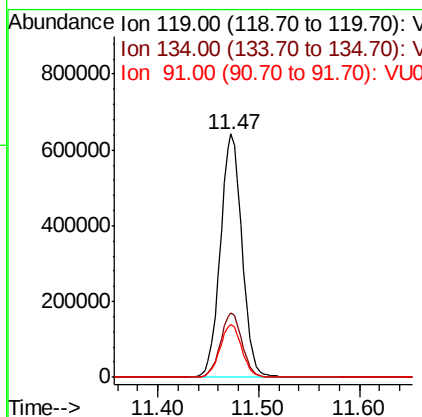
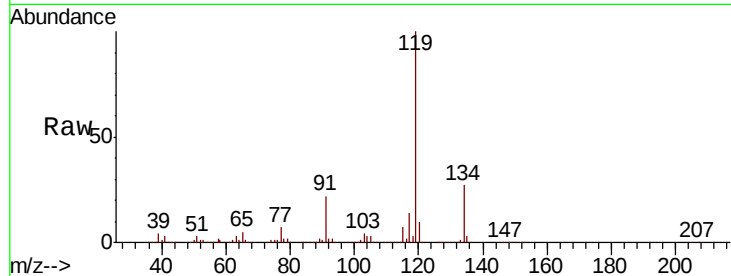
#81  
p-Isopropyltoluene  
Concen: 11.794 ug/l  
RT: 11.47 min Scan# 3229  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.6  | 21.2  | 31.8  |
| 91      | 22.0  | 17.2  | 25.8  |

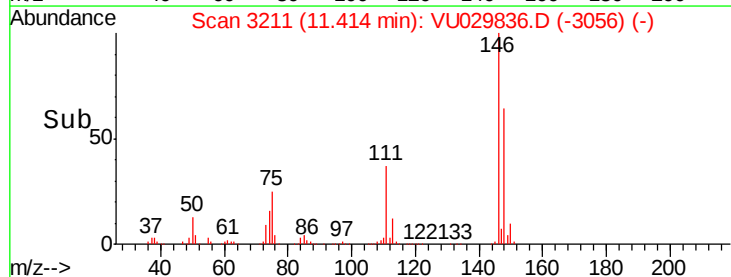
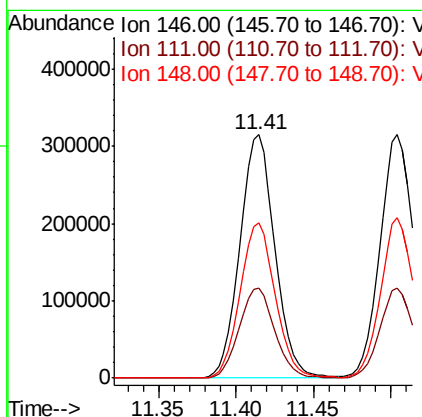
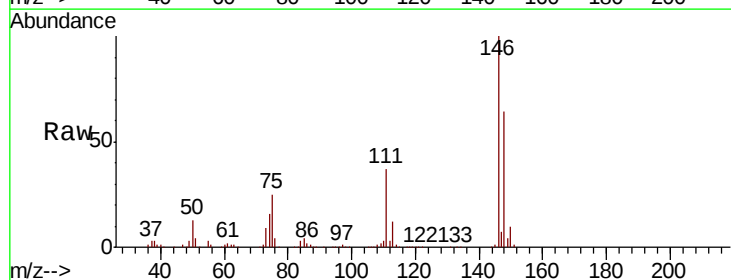
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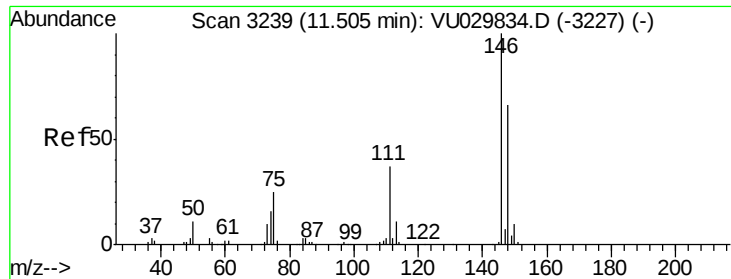
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3/11/2019 4:50:23 PM



#82  
1,3-Dichlorobenzene  
Concen: 10.763 ug/l  
RT: 11.41 min Scan# 3211  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.5  | 30.2  | 45.4  |
| 148     | 64.0  | 51.2  | 76.8  |





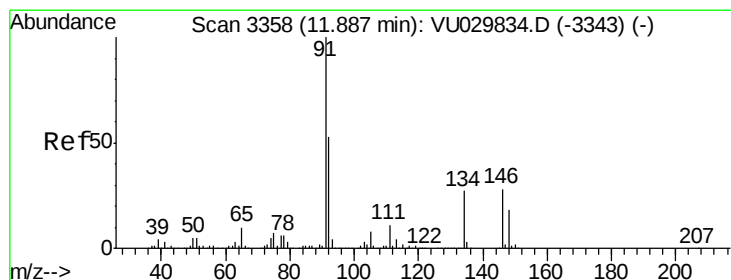
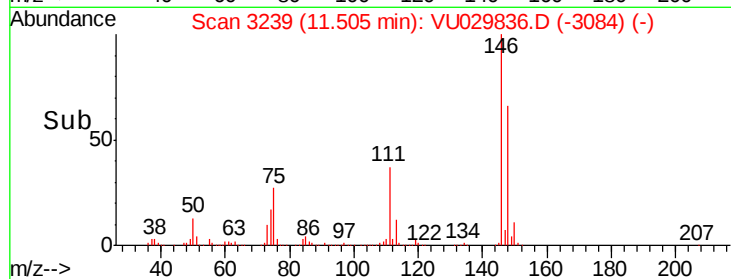
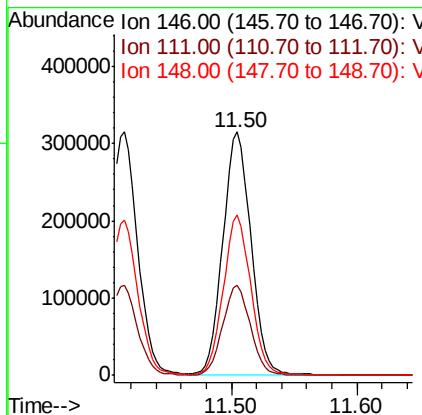
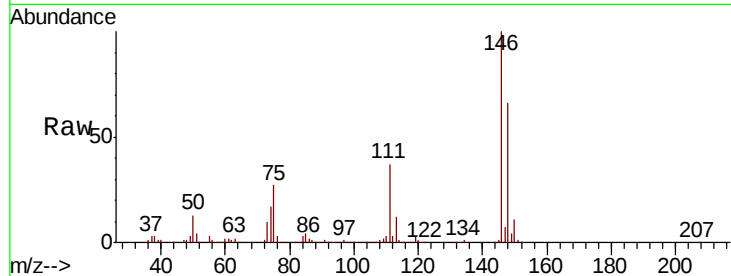
#83  
 1,4-Dichlorobenzene  
 Concen: 10.880 ug/l  
 RT: 11.50 min Scan# 3239  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 489867 |       |       |
| 111     | 36.4  | 29.4   | 44.2  |       |
| 148     | 64.5  | 51.7   | 77.5  |       |

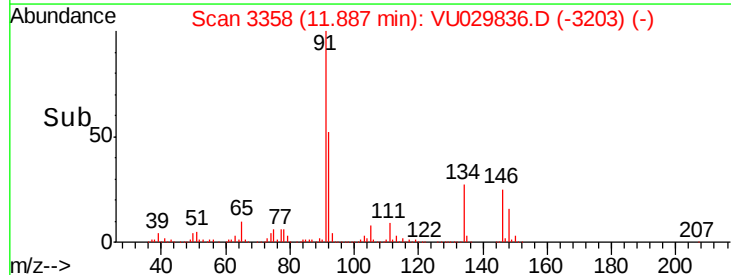
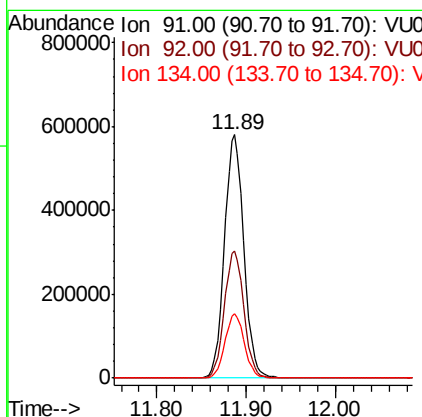
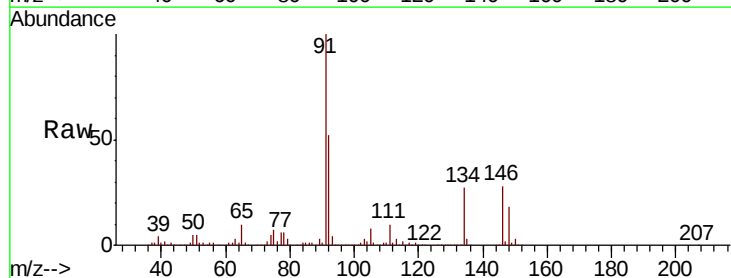
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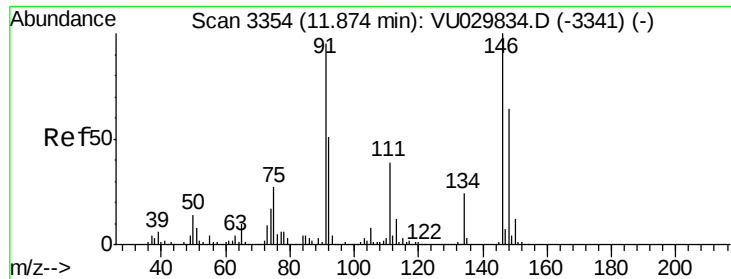
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#84  
 n-Butylbenzene  
 Concen: 11.719 ug/l  
 RT: 11.89 min Scan# 3358  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 867949 |       |       |
| 92      | 52.8  | 42.6   | 63.8  |       |
| 134     | 26.7  | 21.7   | 32.5  |       |





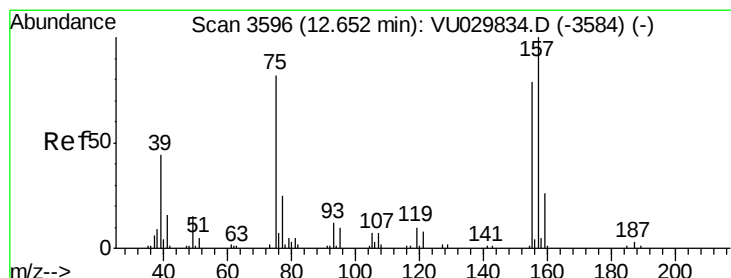
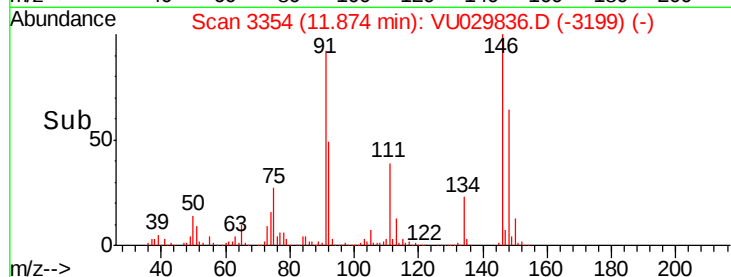
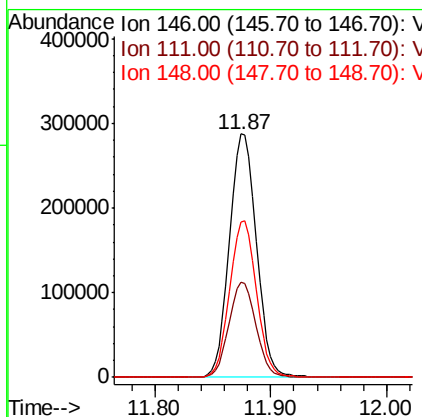
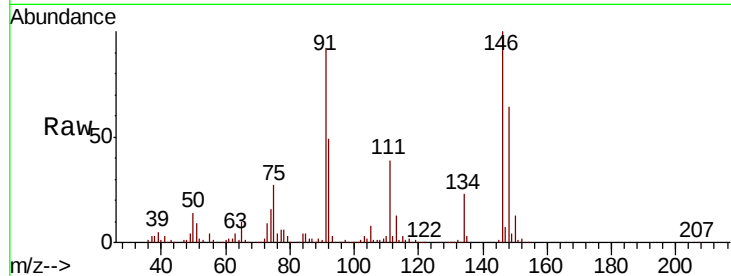
#85  
 1,2-Dichlorobenzene  
 Concen: 10.635 ug/l  
 RT: 11.87 min Scan# 3354  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.1  | 19.9  | 59.6  |
| 148     | 63.6  | 32.1  | 96.3  |

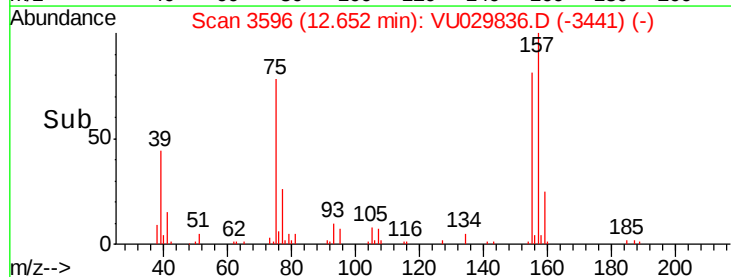
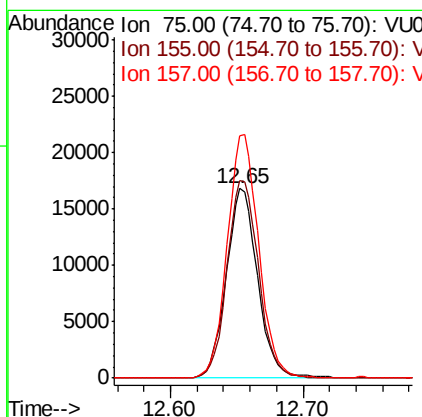
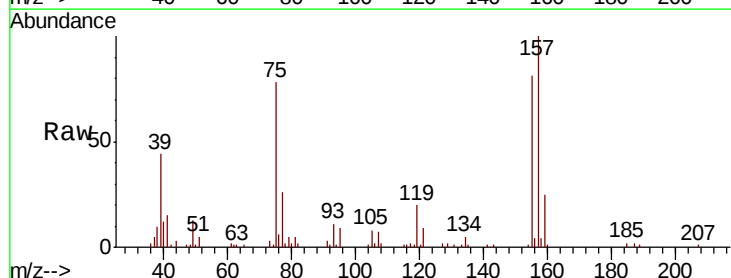
Manual Integrations  
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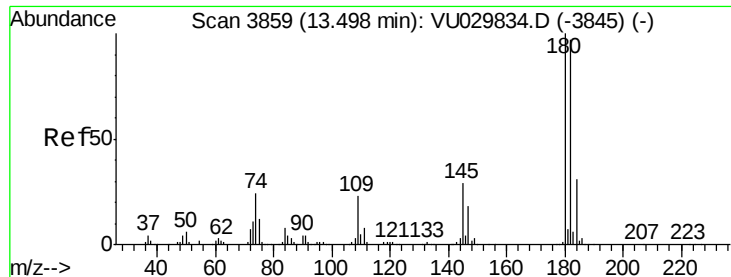
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#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 10.839 ug/l  
 RT: 12.65 min Scan# 3596  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 104.3 | 76.6  | 114.8 |
| 157     | 128.4 | 96.2  | 144.2 |





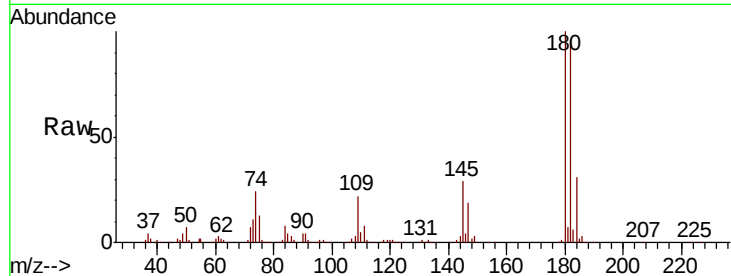
#87  
 1,2,4-Trichlorobenzene  
 Concen: 12.220 ug/l  
 RT: 13.50 min Scan# 3860  
 Delta R.T. 0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU030719

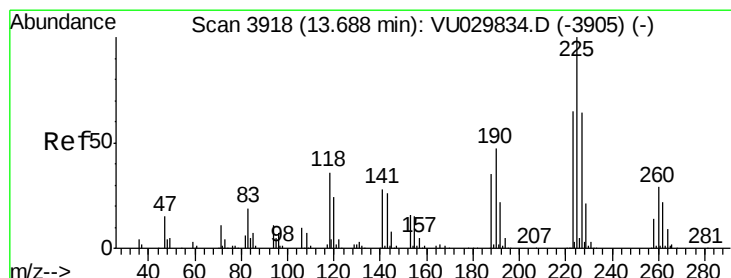
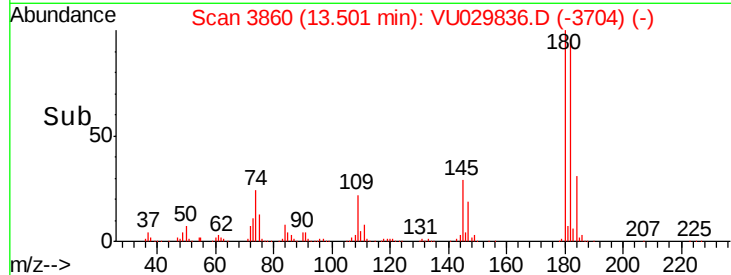
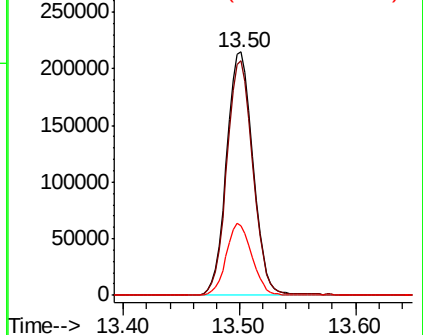
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 340006 |       |       |
| 182     | 95.0  | 77.5   | 116.3 |       |
| 145     | 28.6  | 23.6   | 35.4  |       |

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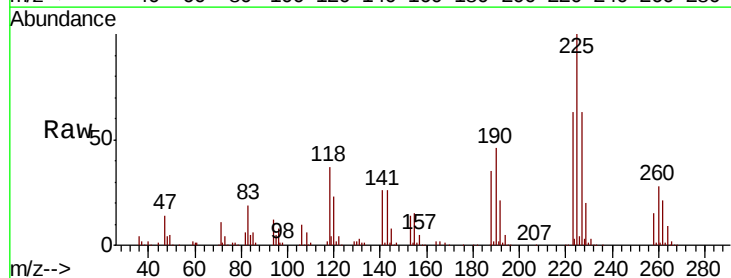


Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

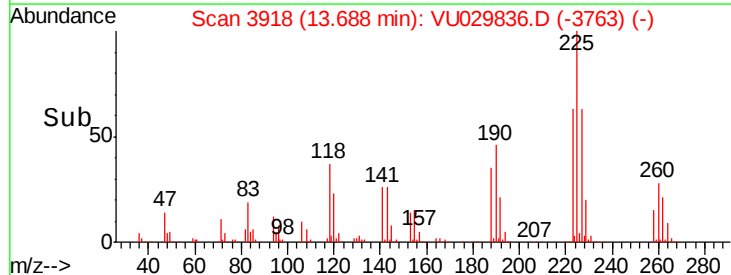
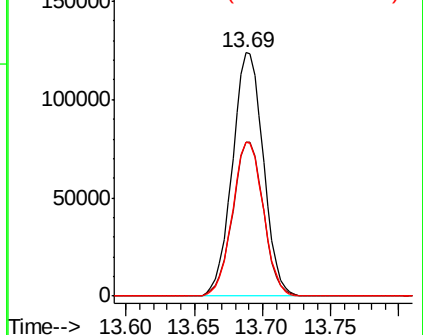


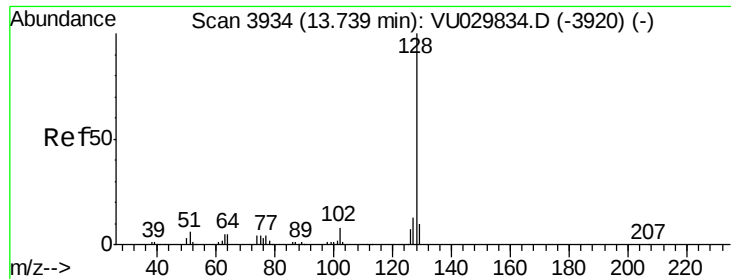
#88  
 Hexachlorobutadiene  
 Concen: 11.123 ug/l  
 RT: 13.69 min Scan# 3918  
 Delta R.T. -0.00 min  
 Lab File: VU029836.D  
 Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 194950 |       |       |
| 223     | 62.8  | 51.2   | 76.8  |       |
| 227     | 62.9  | 50.9   | 76.3  |       |



Abundance Ion 224.60 (224.30 to 225.30): V  
 Ion 222.60 (222.30 to 223.30): V  
 Ion 226.60 (226.30 to 227.30): V





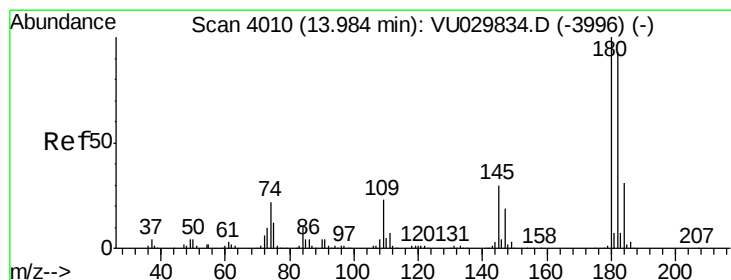
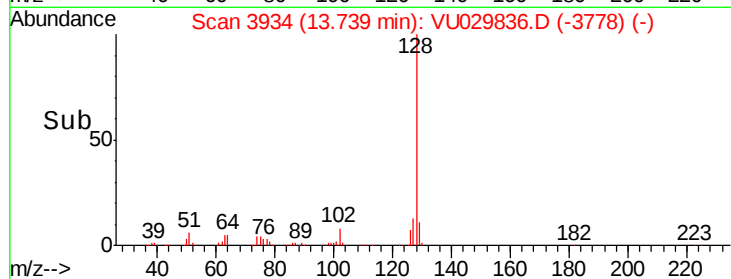
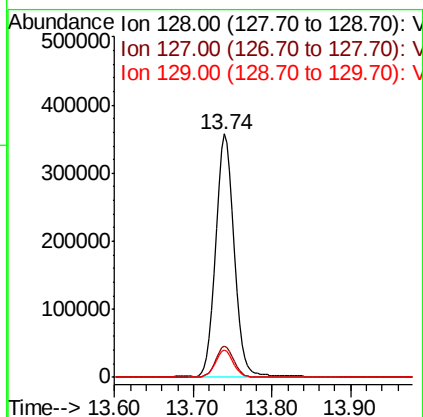
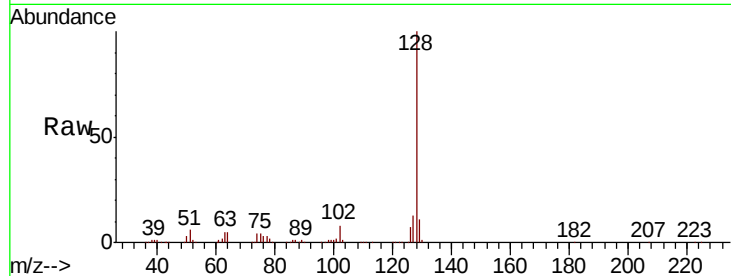
#89  
Naphthalene  
Concen: 10.817 ug/l  
RT: 13.74 min Scan# 3934  
Delta R.T. 0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU030719

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 584797 |       |       |
| 127     | 12.5  |        | 10.2  | 15.4  |
| 129     | 10.3  |        | 8.2   | 12.4  |

Manual Integrations  
APPROVED

MMDadoda  
3/11/2019 4:50:23 PM



#90  
1,2,3-Trichlorobenzene  
Concen: 11.724 ug/l  
RT: 13.98 min Scan# 4010  
Delta R.T. -0.00 min  
Lab File: VU029836.D  
Acq: 06 Mar 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 306467 |       |       |
| 182     | 96.0  |        | 74.8  | 112.2 |
| 145     | 31.1  |        | 24.6  | 36.8  |

