

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\  
 Data File : VU029385.D  
 Acq On : 08 Feb 2019 19:31  
 Operator : JC/SP  
 Sample : VU0208WBS02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 2/18/2019 12:16:01 PM

Quant Time: Feb 09 04:05:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Feb 08 10:52:46 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|--------|---------|----------|
| -----                         | ----- | ----- | -----    | -----  | -----   | -----    |
| 1) Fluorobenzene              | 5.74  | 96    | 52169    | 1.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |        |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 19845    | 0.97   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 97.00%  |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 21501    | 1.03   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 103.00% |          |
| Target Compounds              |       |       |          |        |         |          |
|                               |       |       |          |        | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.21  | 85    | 34067    | 1.750  | ug/l    | 98       |
| 3) Chloromethane              | 1.33  | 50    | 30005    | 1.687  | ug/l    | 99       |
| 4) Vinyl Chloride             | 1.40  | 62    | 36276    | 1.739  | ug/l    | 100      |
| 5) Bromomethane               | 1.63  | 94    | 26752    | 2.306  | ug/l    | 100      |
| 6) Chloroethane               | 1.70  | 64    | 21572    | 1.770  | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 1.88  | 101   | 56467    | 1.939  | ug/l    | 97       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 30508    | 1.984  | ug/l    | 87       |
| 9) 1,1-Dichloroethene         | 2.29  | 96    | 28898    | 1.920  | ug/l    | 71       |
| 10) Iodomethane               | 2.41  | 142   | 28848    | 1.542  | ug/l #  | 79       |
| 11) Allyl Chloride            | 2.59  | 41    | 42707    | 1.692  | ug/l    | 89       |
| 12) Acrylonitrile             | 2.93  | 53    | 11595    | 3.438  | ug/l    | 97       |
| 13) Acetone                   | 2.32  | 43    | 26554    | 8.168  | ug/l #  | 84       |
| 14) Carbon Disulfide          | 2.48  | 76    | 95039    | 1.789  | ug/l    | 98       |
| 15) Methylene Chloride        | 2.70  | 84    | 35940    | 1.969  | ug/l #  | 74       |
| 16) trans-1,2-Dichloroethene  | 2.98  | 96    | 32712    | 1.944  | ug/l #  | 78       |
| 17) 1,1-Dichloroethane        | 3.44  | 63    | 58498    | 2.193  | ug/l    | 97       |
| 18) 2-Butanone                | 4.28  | 43    | 30877    | 8.498  | ug/l    | 92       |
| 19) Cyclohexane               | 4.99  | 56    | 34818    | 1.408  | ug/l #  | 82       |
| 20) Methylcyclohexane         | 6.41  | 83    | 48943    | 1.884  | ug/l #  | 82       |
| 21) 2,2-Dichloropropane       | 4.22  | 77    | 44222    | 1.791  | ug/l #  | 89       |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96    | 31452    | 1.984  | ug/l    | 76       |
| 23) Diethyl Ether             | 2.10  | 59    | 22083    | 1.827  | ug/l    | 87       |
| 24) tert-Butyl Alcohol        | 2.83  | 59    | 24558    | 19.554 | ug/l    | 96       |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73    | 79763    | 1.882  | ug/l #  | 85       |
| 26) Bromochloromethane        | 4.55  | 128   | 14263    | 2.037  | ug/l    | 68       |
| 27) Chloroform                | 4.67  | 83    | 50325    | 1.940  | ug/l    | 99       |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97    | 46857    | 1.949  | ug/l    | 94       |
| 29) 1,1-Dichloropropene       | 5.13  | 75    | 37695    | 1.806  | ug/l    | 90       |
| 30) Carbon Tetrachloride      | 5.13  | 117   | 42154    | 1.937  | ug/l    | 98       |
| 31) Isopropyl Ether           | 3.58  | 45    | 87327    | 2.170  | ug/l    | 92       |
| 32) Ethyl-t-butyl ether       | 4.07  | 59    | 72453    | 1.797  | ug/l    | 91       |
| 33) Tert-Amyl methyl ether    | 5.58  | 73    | 67626    | 1.855  | ug/l    | 98       |
| 34) Propionitrile             | 4.33  | 54    | 9329     | 9.768  | ug/l #  | 83       |
| 35) Benzene                   | 5.39  | 78    | 108102   | 1.873  | ug/l    | 100      |
| 36) 1,2-Dichloroethane        | 5.40  | 62    | 31600    | 1.810  | ug/l #  | 88       |
| 37) Trichloroethene           | 6.18  | 130   | 33457    | 2.020  | ug/l    | 84       |
| 38) 1,2-Dichloropropane       | 6.43  | 63    | 27465    | 1.829  | ug/l    | 90       |
| 39) Methacrylonitrile         | 4.55  | 41    | 7212     | 1.475  | ug/l #  | 83       |
| 40) Methyl acrylate           | 4.43  | 55    | 12518    | 1.696  | ug/l #  | 84       |
| 41) Tetrahydrofuran           | 4.65  | 42    | 8153     | 3.309  | ug/l #  | 77       |
| 42) 1-Chlorobutane            | 5.06  | 56    | 49662    | 1.776  | ug/l    | 82       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\  
 Data File : VU029385.D  
 Acq On : 08 Feb 2019 19:31  
 Operator : JC/SP  
 Sample : VU0208WBS02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VU0208WBS02

Manual Integrations  
 APPROVED

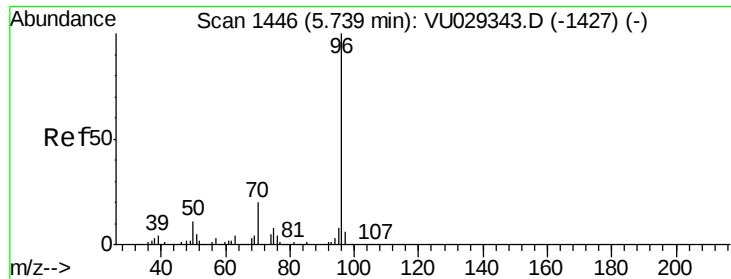
MMDadoda  
 2/18/2019 12:16:01 PM

Quant Time: Feb 09 04:05:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Feb 08 10:52:46 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 43) Dibromomethane             | 6.56  | 93   | 14423    | 1.803 | ug/l # | 85       |
| 44) Bromodichloromethane       | 6.76  | 83   | 37209    | 1.825 | ug/l   | 90       |
| 45) 4-Methyl-2-Pentanone       | 7.46  | 43   | 79948    | 8.525 | ug/l # | 89       |
| 46) t-1,4-Dichloro-2-butene    | 10.52 | 75   | 14098m   | 3.086 | ug/l   |          |
| 47) Methyl methacrylate        | 6.63  | 69   | 25940    | 3.685 | ug/l # | 73       |
| 48) Ethyl methacrylate         | 8.02  | 69   | 28114    | 1.862 | ug/l   | 78       |
| 49) Toluene                    | 7.63  | 92   | 72421    | 1.961 | ug/l   | 96       |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 35016    | 1.752 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 42310    | 1.782 | ug/l # | 85       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 20437    | 1.930 | ug/l   | 98       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 34596    | 1.859 | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.36  | 43   | 53311    | 8.110 | ug/l   | 86       |
| 55) Dibromochloromethane       | 8.48  | 129  | 28404    | 1.887 | ug/l   | 99       |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 20398    | 1.877 | ug/l   | 97       |
| 58) Tetrachloroethene          | 8.22  | 164  | 32013    | 2.077 | ug/l   | 93       |
| 59) Chlorobenzene              | 9.12  | 112  | 82991    | 1.995 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 30271    | 1.969 | ug/l   | 98       |
| 61) Pentachloroethane          | 11.10 | 117  | 22519    | 1.890 | ug/l   | 86       |
| 62) Hexachloroethane           | 12.14 | 117  | 23773    | 1.828 | ug/l   | 92       |
| 63) Ethyl Benzene              | 9.25  | 91   | 137909   | 1.909 | ug/l   | 96       |
| 64) m/p-Xylenes                | 9.37  | 106  | 111604   | 3.975 | ug/l   | 83       |
| 65) o-Xylene                   | 9.78  | 106  | 53718    | 1.949 | ug/l   | 87       |
| 66) Styrene                    | 9.79  | 104  | 87679    | 1.909 | ug/l   | 93       |
| 67) Bromoform                  | 9.96  | 173  | 18204    | 1.944 | ug/l   | 99       |
| 69) Isopropylbenzene           | 10.16 | 105  | 143740   | 1.952 | ug/l   | 94       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 26158    | 1.927 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 18785m   | 2.015 | ug/l   |          |
| 72) Bromobenzene               | 10.45 | 156  | 37291    | 2.090 | ug/l   | 83       |
| 73) n-propylbenzene            | 10.58 | 120  | 41157    | 2.007 | ug/l   | 77       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 35462    | 2.031 | ug/l   | 76       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 119256   | 1.879 | ug/l   | 96       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 36063    | 1.990 | ug/l   | 75       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 121149   | 1.931 | ug/l   | 92       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 122538   | 1.907 | ug/l   | 94       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 158876   | 1.935 | ug/l   | 94       |
| 80) Nitrobenzene               | 12.87 | 77   | 3474m    | 5.744 | ug/l   |          |
| 81) p-Isopropyltoluene         | 11.47 | 119  | 135658   | 1.949 | ug/l   | 93       |
| 82) 1,3-Dichlorobenzene        | 11.42 | 146  | 71302    | 2.036 | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 70834    | 2.031 | ug/l   | 98       |
| 84) n-Butylbenzene             | 11.89 | 91   | 119734   | 1.875 | ug/l # | 96       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 68048    | 2.055 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 4246     | 1.676 | ug/l # | 60       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 46784    | 2.012 | ug/l   | 95       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 29657    | 2.202 | ug/l   | 98       |
| 89) Naphthalene                | 13.74 | 128  | 80439    | 2.040 | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 45383    | 2.136 | 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: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

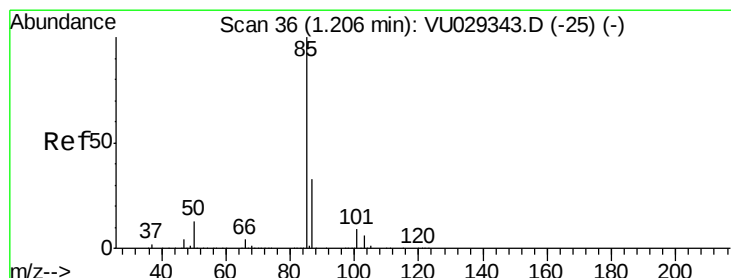
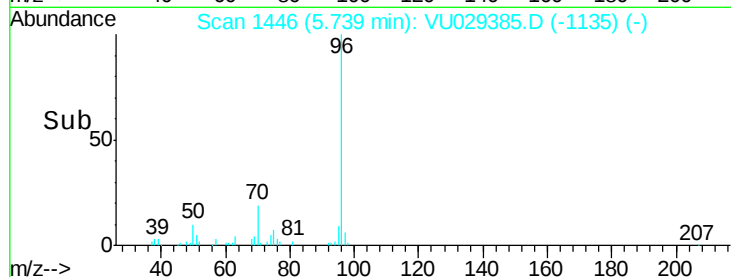
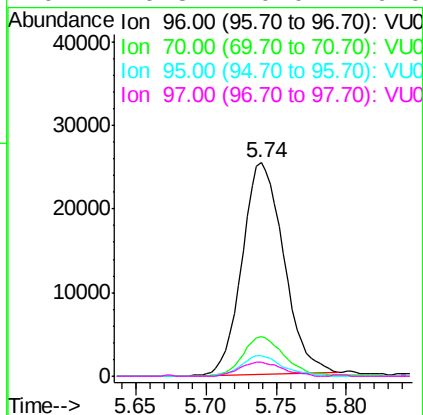
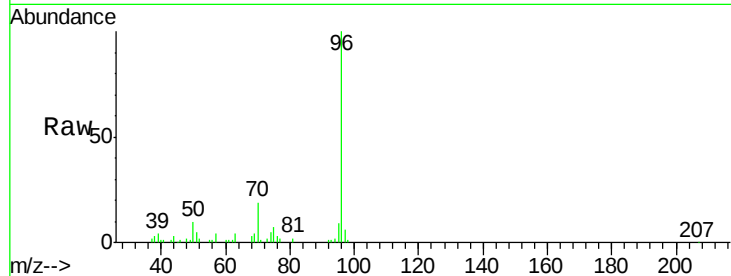
ClientSampleId :

VU0208WBS02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 52169 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 18.3  | 16.2  | 24.2  |
| 95       | 9.7   | 7.4   | 11.2  |
| 97       | 6.8   | 0.0   | 0.0#  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 1.750 ug/l

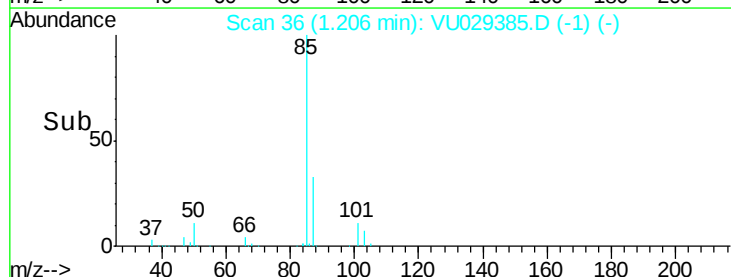
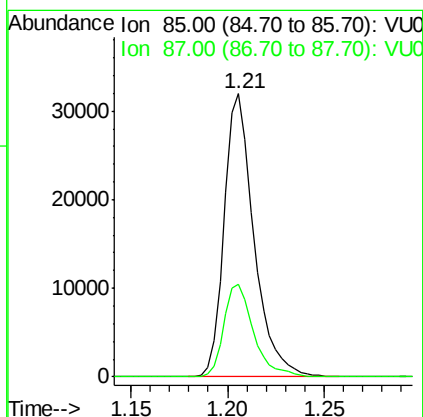
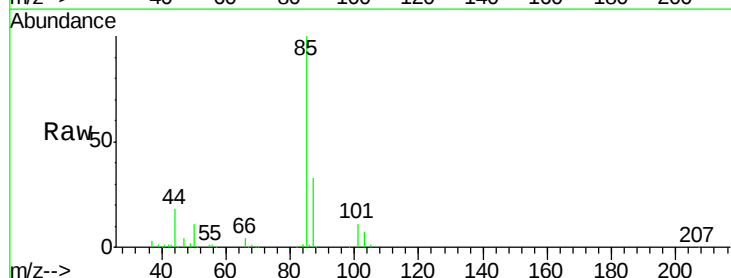
RT: 1.21 min Scan# 36

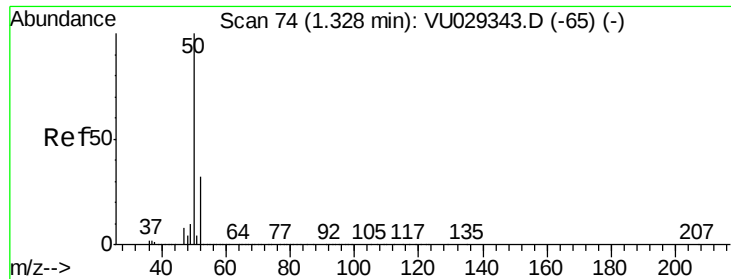
Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 85    | Resp: | 34067 |
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 32.8  | 15.9  | 47.6  |





#3

Chloromethane

Concen: 1.687 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 50 Resp: 30005

Ion Ratio Lower Upper

50 100

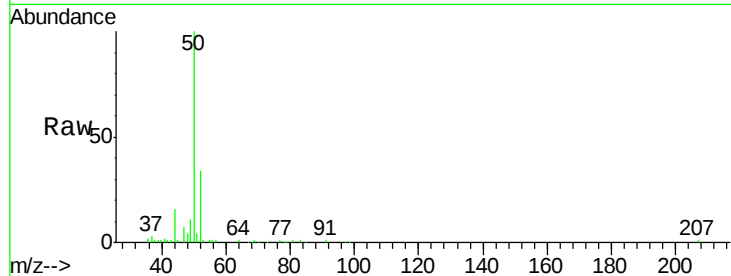
52 33.6 27.3 40.9

Manual Integrations

APPROVED

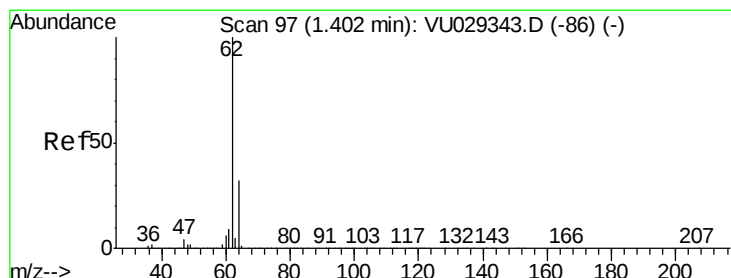
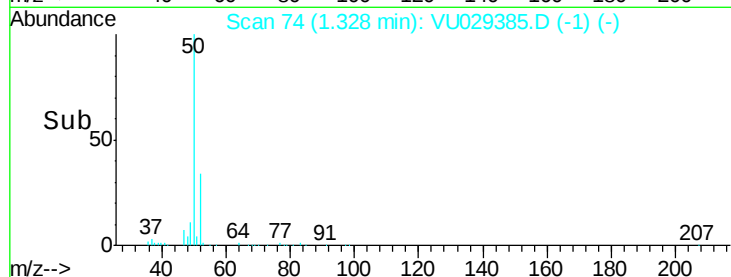
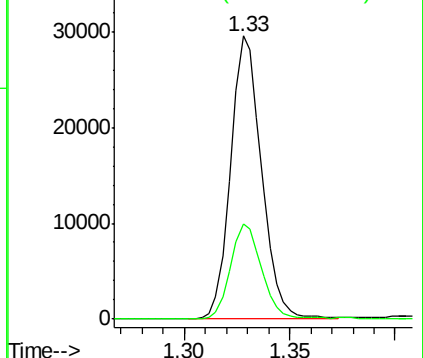
MMDadoda

2/18/2019 12:16:01 PM



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 1.739 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029385.D

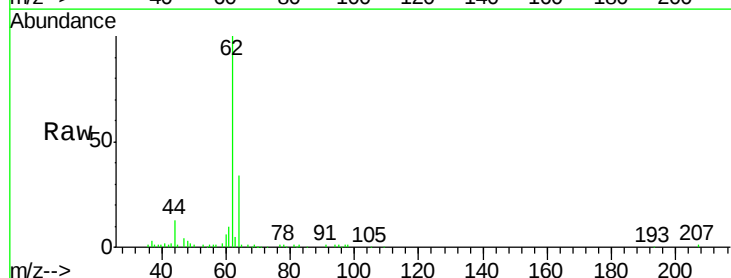
Acq: 08 Feb 2019 19:31

Tgt Ion: 62 Resp: 36276

Ion Ratio Lower Upper

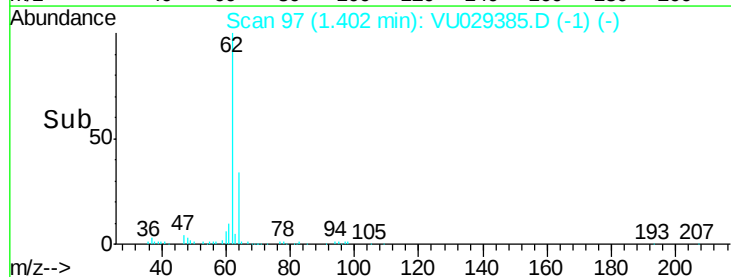
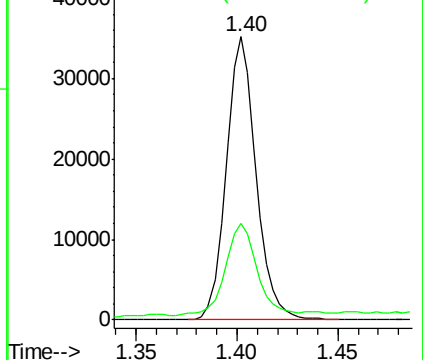
62 100

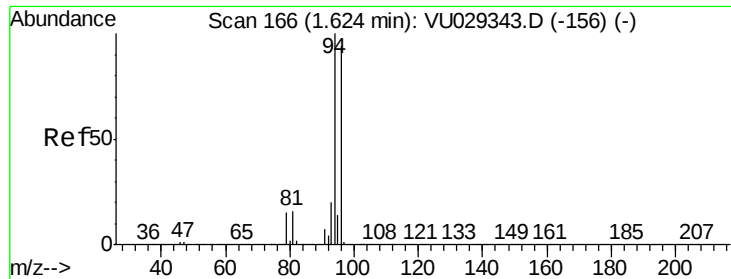
64 31.6 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 2.306 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 94 Resp: 26752

Ion Ratio Lower Upper

94 100

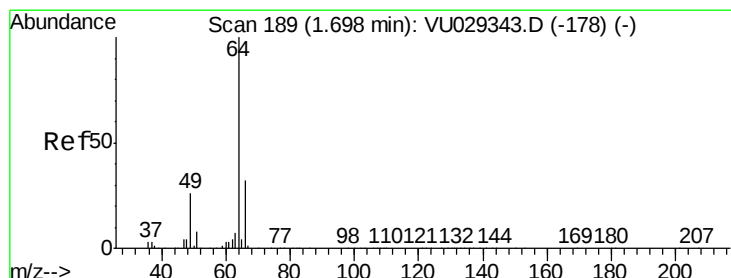
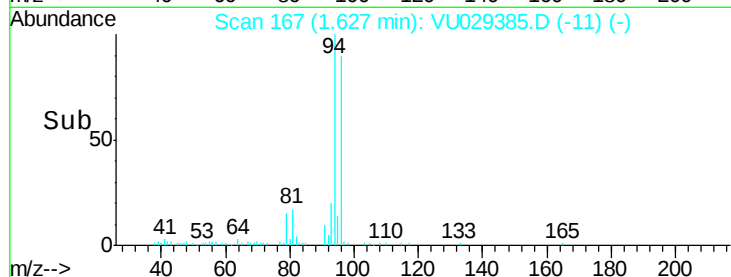
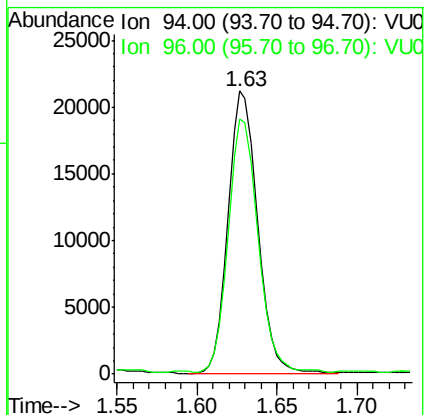
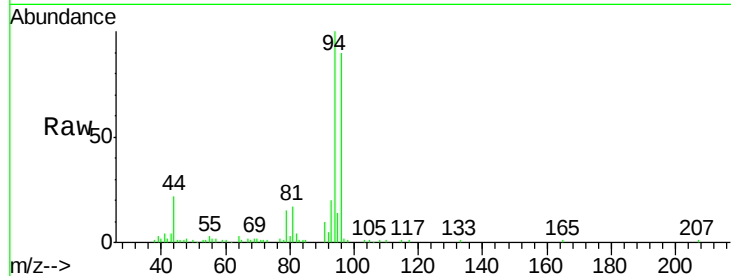
96 89.3 71.7 107.5

Manual Integrations

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2/18/2019 12:16:01 PM



#6

Chloroethane

Concen: 1.770 ug/l

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU029385.D

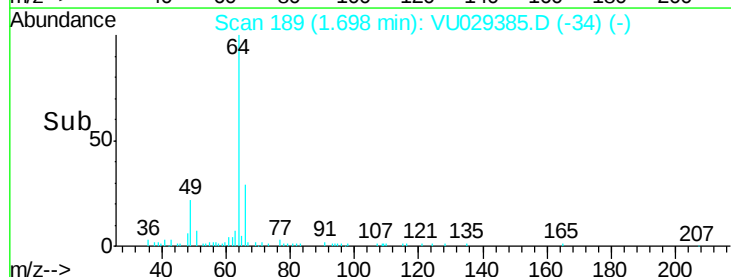
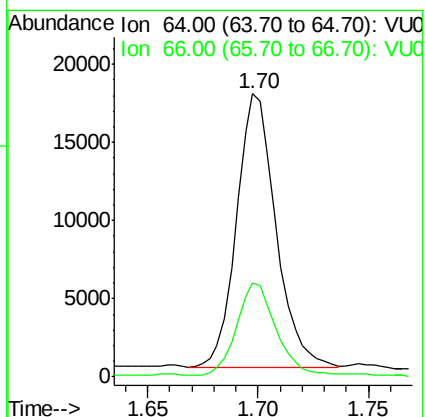
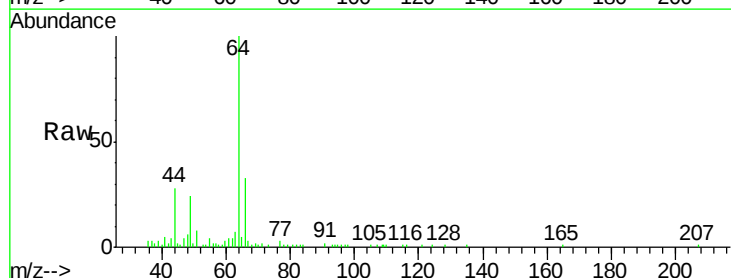
Acq: 08 Feb 2019 19:31

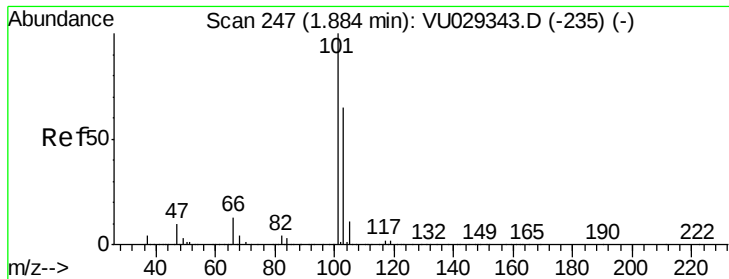
Tgt Ion: 64 Resp: 21572

Ion Ratio Lower Upper

64 100

66 33.9 26.3 39.5





#7

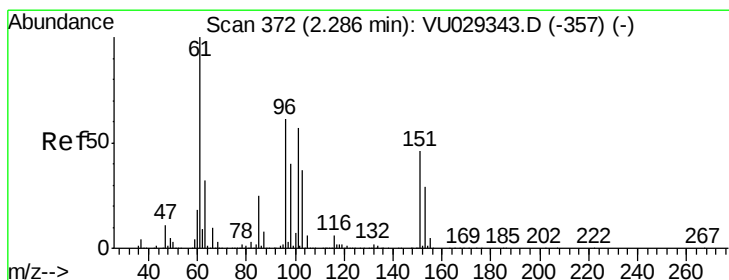
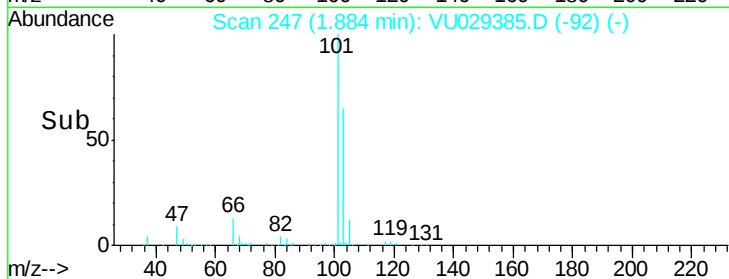
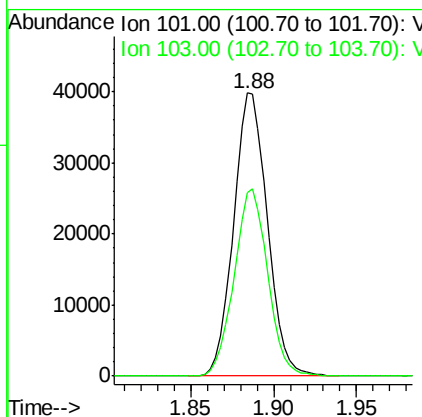
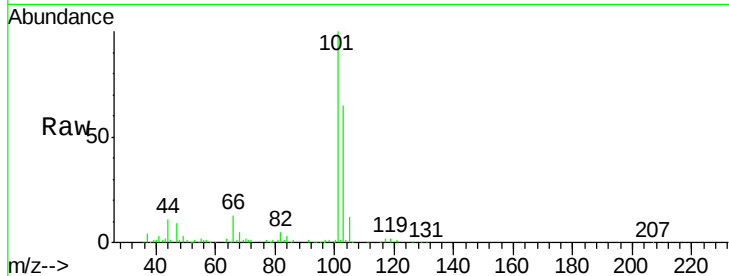
Trichlorofluoromethane  
Concen: 1.939 ug/l  
RT: 1.88 min Scan# 247  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.7  | 53.9  | 80.9  |

Manual Integrations  
APPROVED

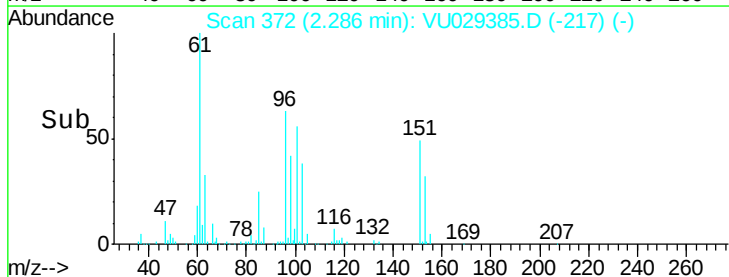
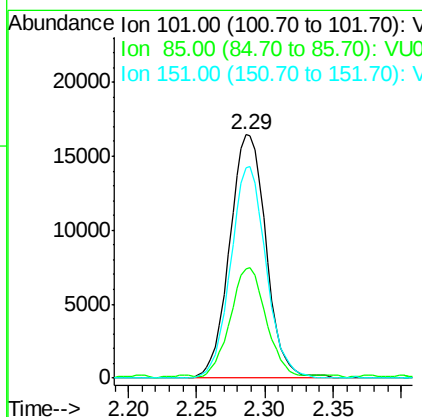
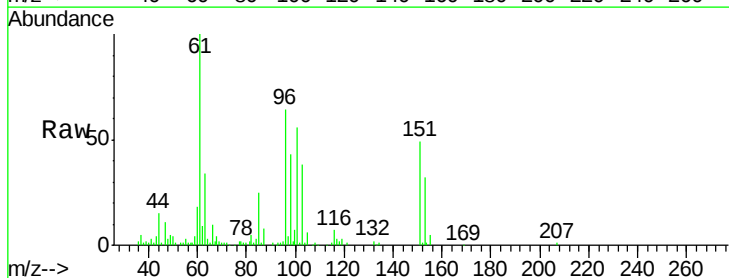
MMDadoda  
2/18/2019 12:16:01 PM

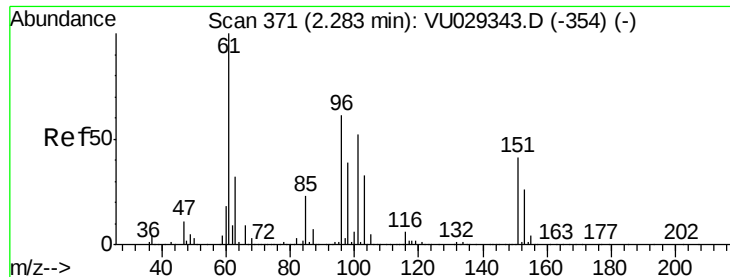


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 1.984 ug/l  
RT: 2.29 min Scan# 372  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 43.1  | 40.3  | 60.5  |
| 151     | 84.3  | 58.1  | 87.1  |





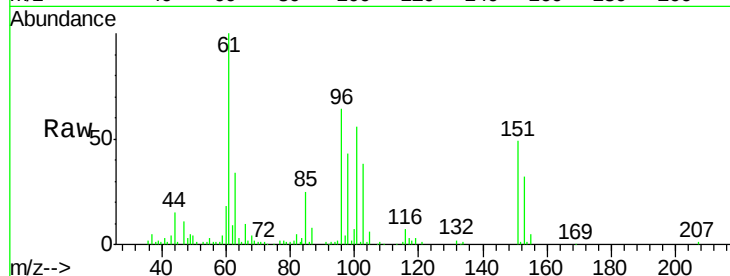
#9  
1,1-Dichloroethene  
Concen: 1.920 ug/l  
RT: 2.29 min Scan# 372  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

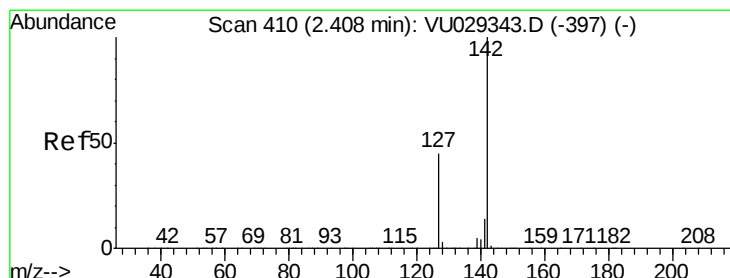
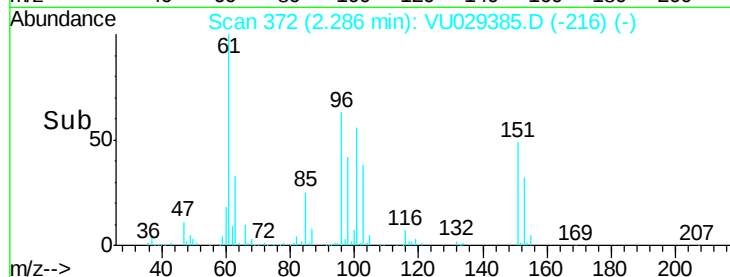
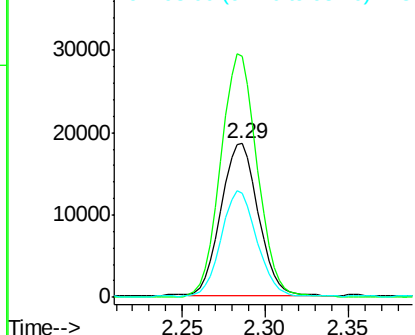
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 96      | 100   |      |       |       |
| 61      | 157.9 | 0.0  | 641.4 |       |
| 98      | 67.5  | 0.0  | 122.6 |       |

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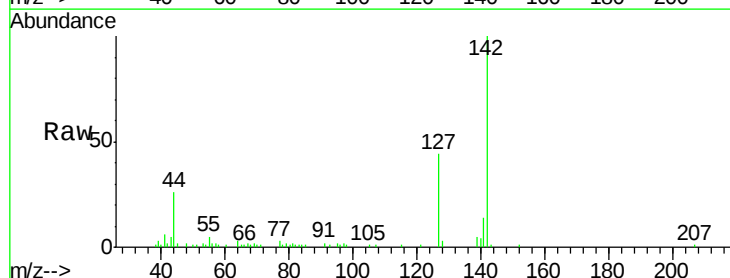


Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

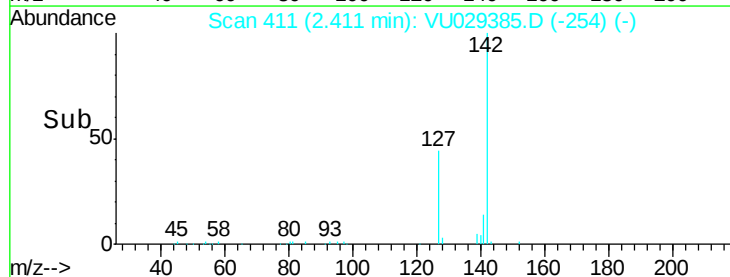
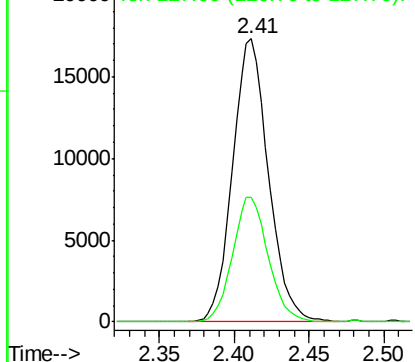


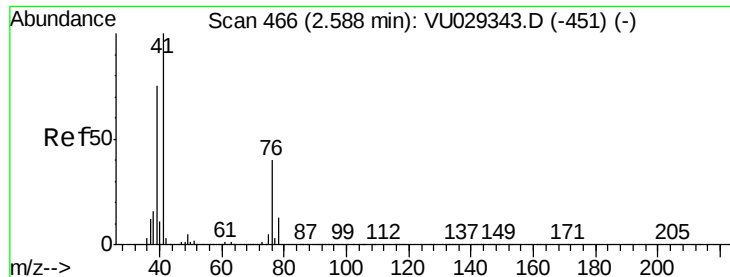
#10  
Iodomethane  
Concen: 1.542 ug/l  
RT: 2.41 min Scan# 411  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 142     | 100   |      |       |       |
| 127     | 43.7  | 47.6 | 71.4  | #     |



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





#11

Allvl Chloride

Concen: 1.692 ug/l

RT: 2.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 41 Resp: 42707

Ion Ratio Lower Upper

41 100

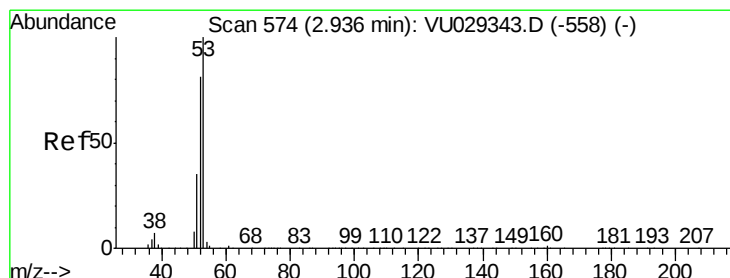
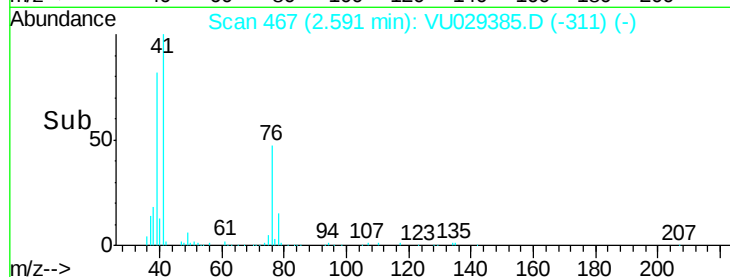
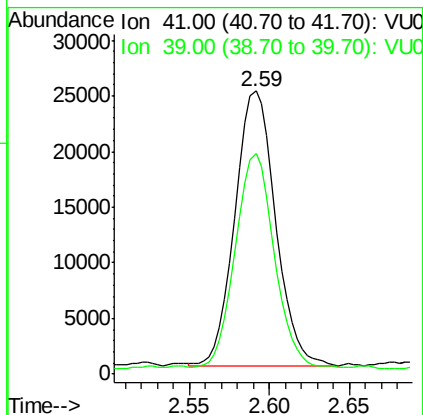
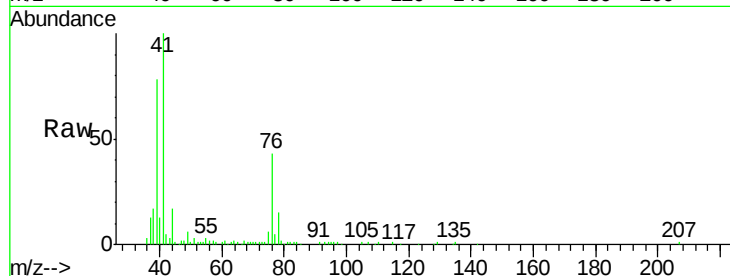
39 74.0 67.2 100.8

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#12

Acrylonitrile

Concen: 3.438 ug/l

RT: 2.93 min Scan# 573

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

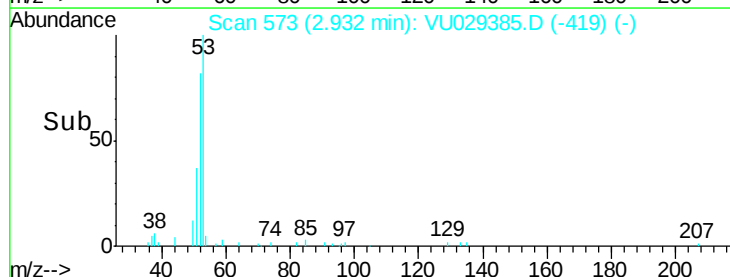
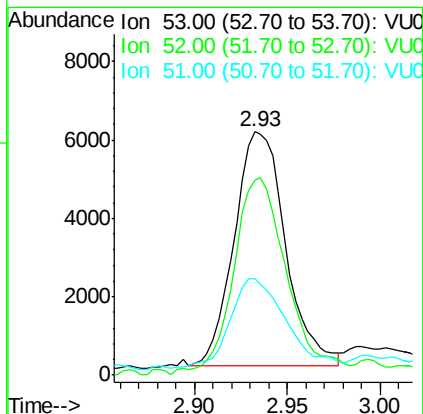
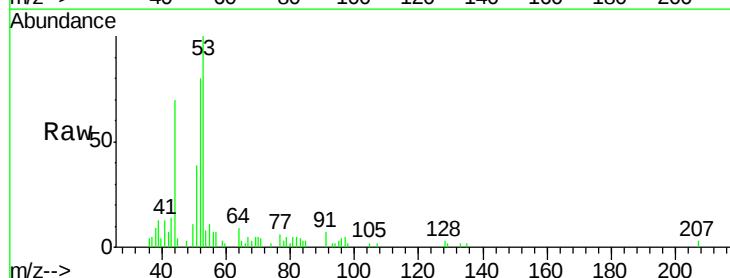
Tgt Ion: 53 Resp: 11595

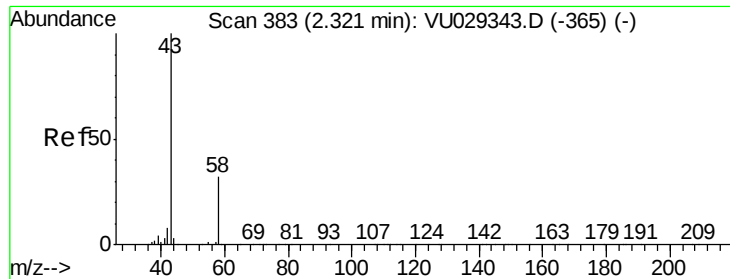
Ion Ratio Lower Upper

53 100

52 87.8 67.6 101.4

51 40.5 31.0 46.4





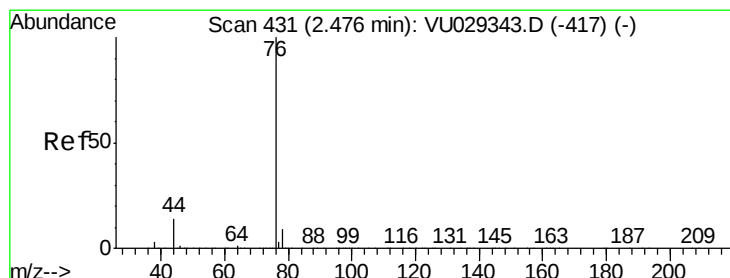
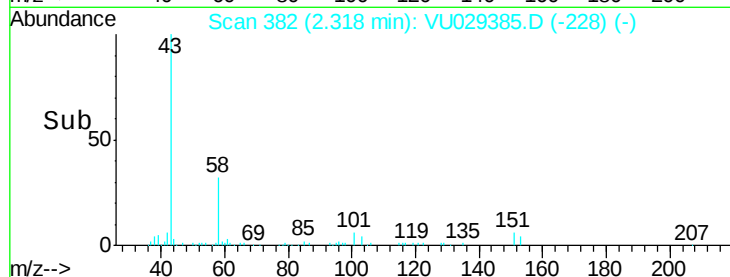
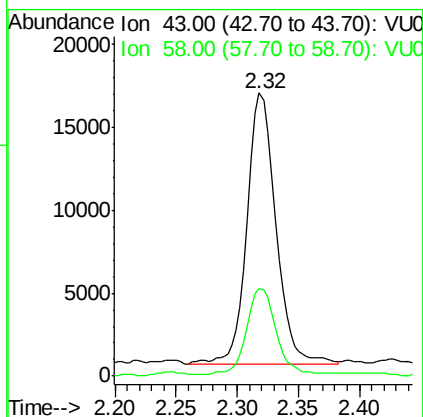
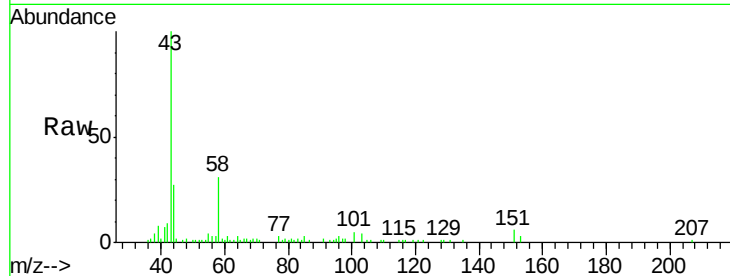
#13  
Acetone  
Concen: 8.168 ug/l  
RT: 2.32 min Scan# 382  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

Tot Ion: 43 Resp: 26554  
Ion Ratio Lower Upper  
43 100  
58 31.7 19.2 28.8#

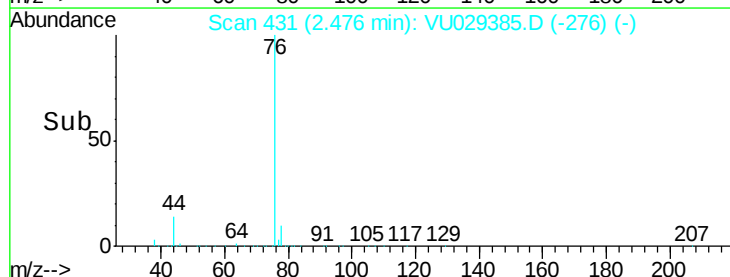
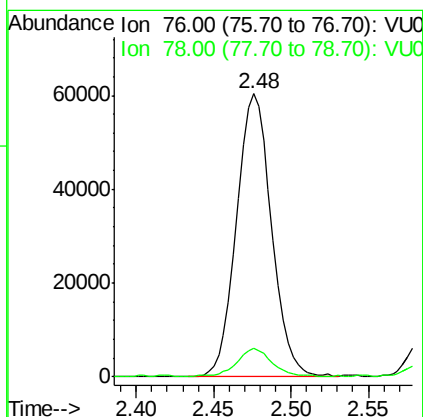
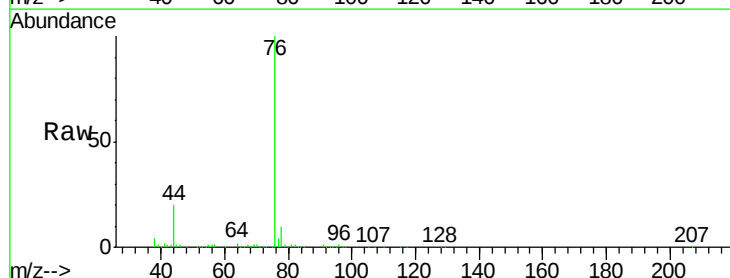
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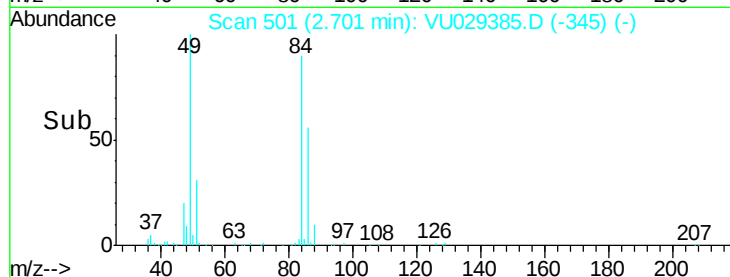
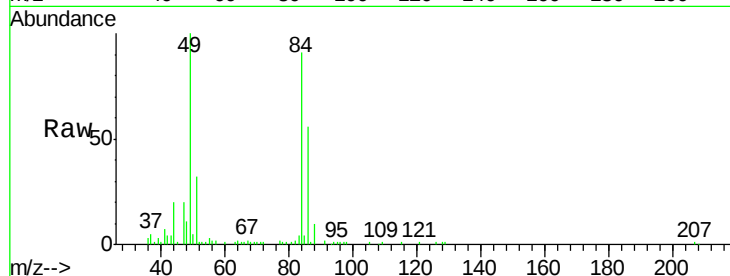
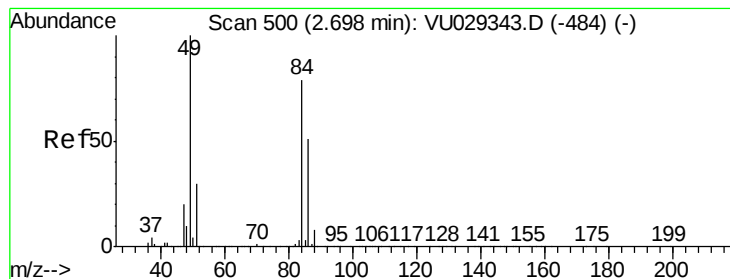
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#14  
Carbon Disulfide  
Concen: 1.789 ug/l  
RT: 2.48 min Scan# 431  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Tgt Ion: 76 Resp: 95039  
Ion Ratio Lower Upper  
76 100  
78 9.7 7.1 10.7





#15

Methylene Chloride

Concen: 1.969 ug/l

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU029385.D

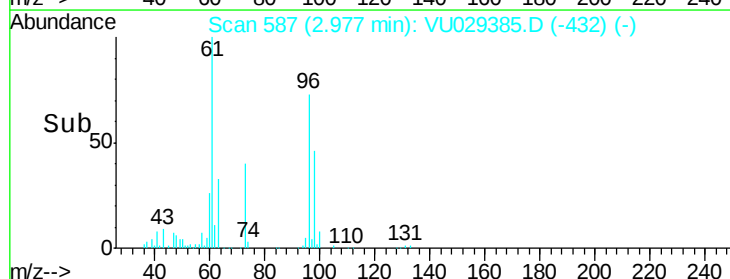
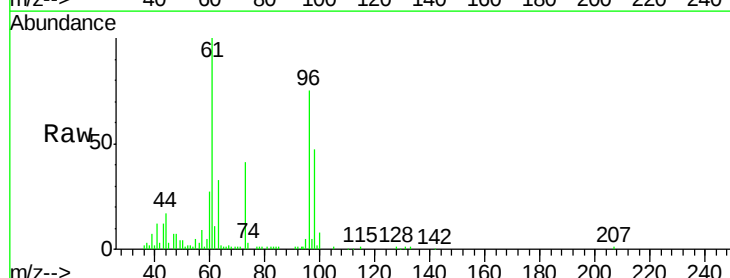
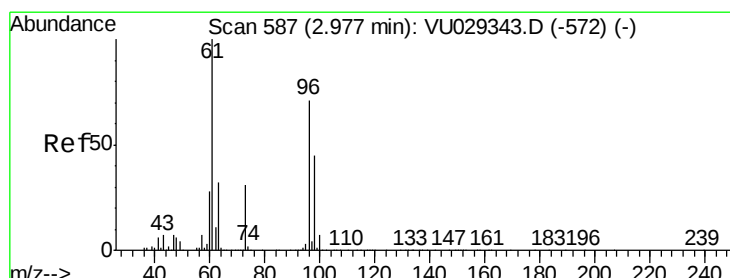
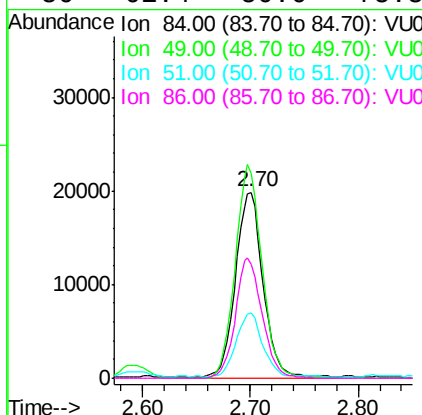
Acq: 08 Feb 2019 19:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 35940  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 110.0 | 127.0 | 190.6# |
| 51       | 34.0  | 0.0   | 93.4   |
| 86       | 61.4  | 50.6  | 75.8   |

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

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#16

trans-1,2-Dichloroethene

Concen: 1.944 ug/l

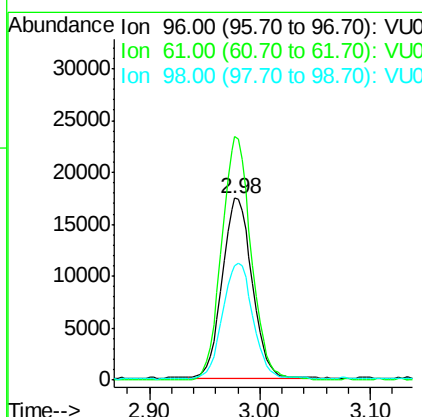
RT: 2.98 min Scan# 587

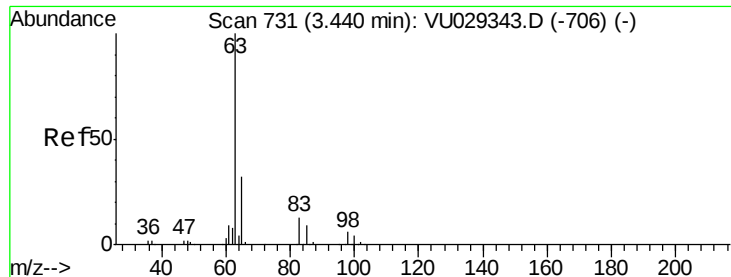
Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 32712  |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 135.3 | 140.6 | 210.8# |
| 98       | 62.4  | 49.3  | 73.9   |





#17

1,1-Dichloroethane

Concen: 2.193 ug/l

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

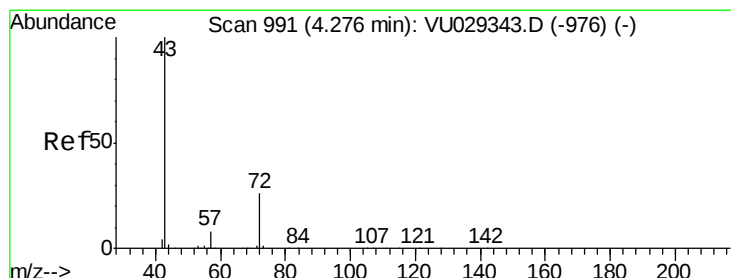
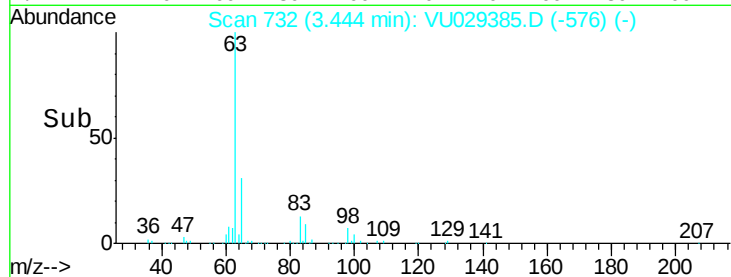
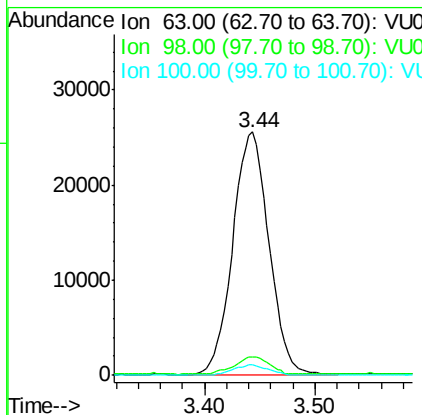
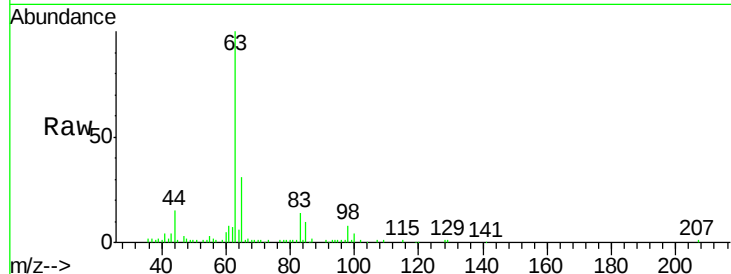
ClientSampleId :

VU0208WBS02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 58498 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 98        | 7.0   | 2.9   | 8.8   |
| 100       | 4.1   | 1.7   | 5.1   |

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#18

2-Butanone

Concen: 8.498 ug/l

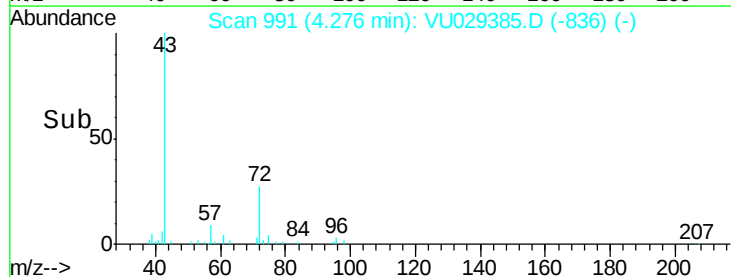
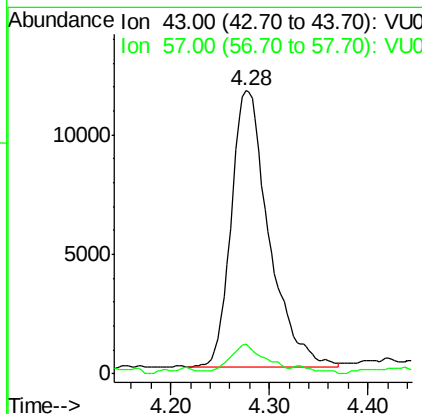
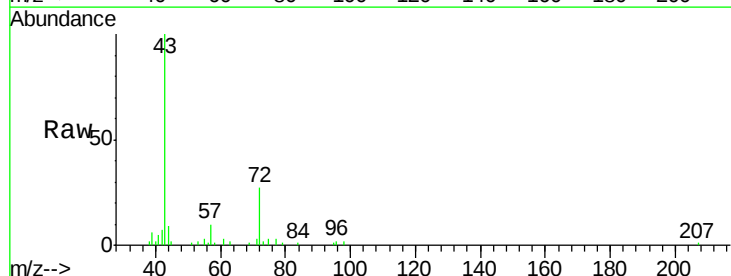
RT: 4.28 min Scan# 991

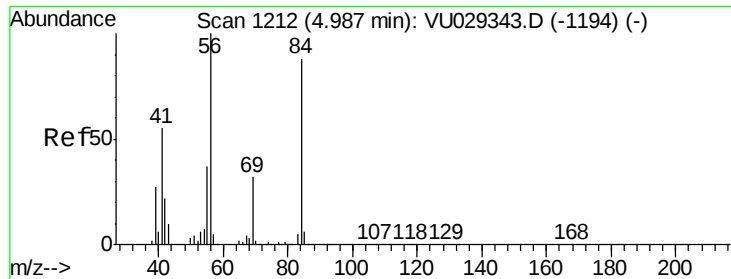
Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 30877 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 57        | 10.7  | 0.0   | 15.8  |





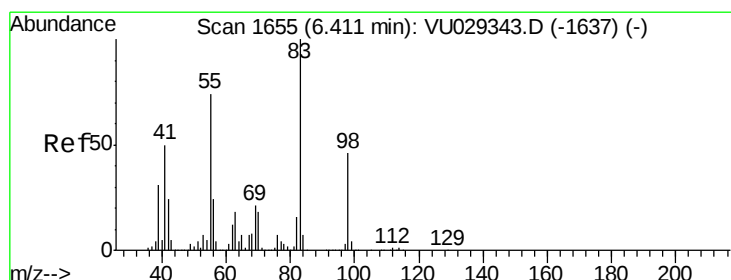
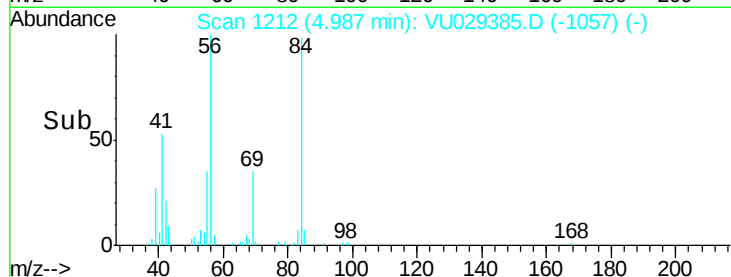
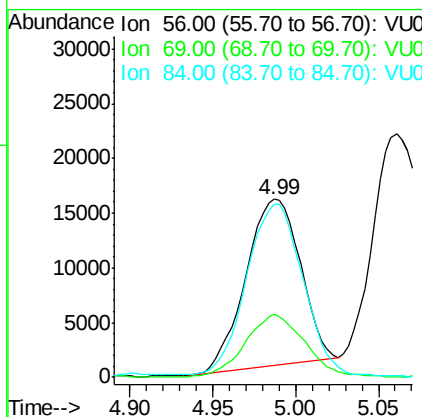
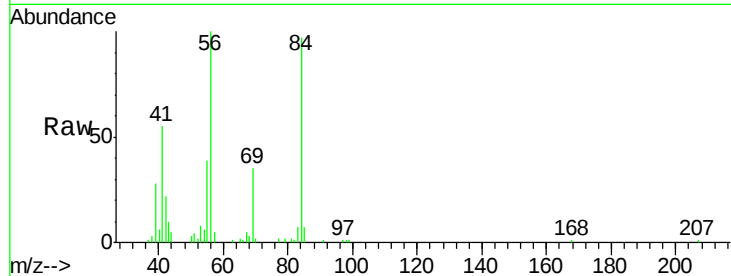
#19  
Cyclohexane  
Concen: 1.408 ug/l  
RT: 4.99 min Scan# 1212  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 41.4  | 26.8  | 40.2# |
| 84      | 107.1 | 71.5  | 107.3 |

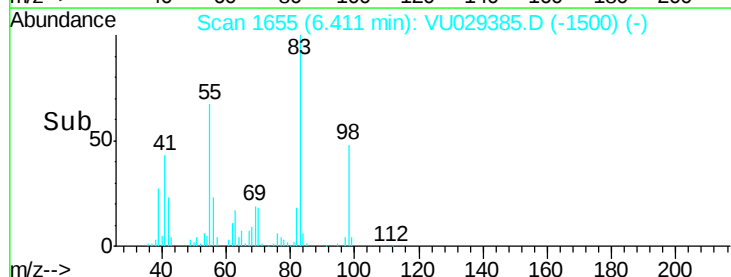
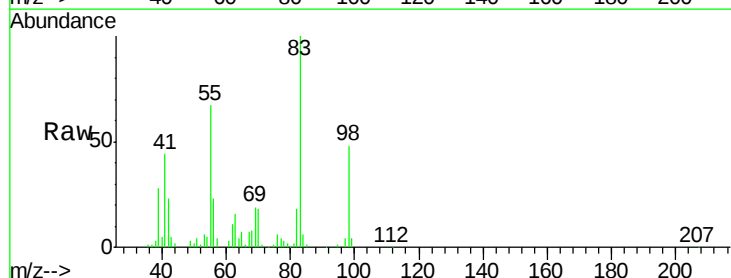
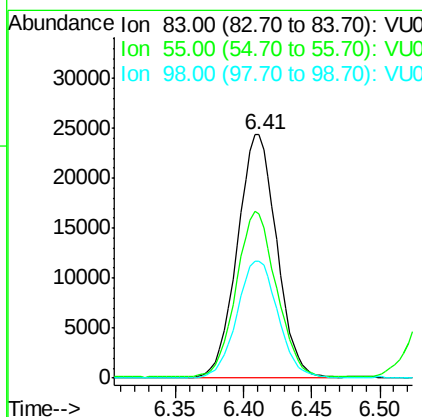
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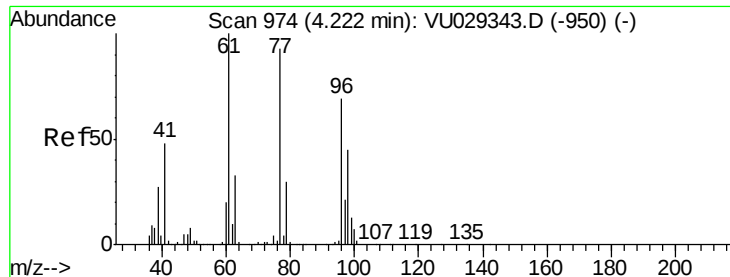
MMDadoda  
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#20  
Methylcyclohexane  
Concen: 1.884 ug/l  
RT: 6.41 min Scan# 1655  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 68.5  | 72.4  | 108.6# |
| 98      | 50.0  | 36.6  | 54.8   |





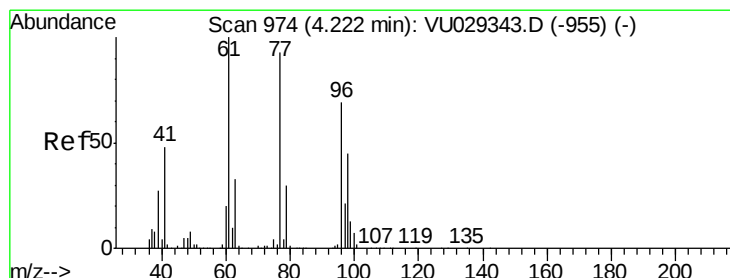
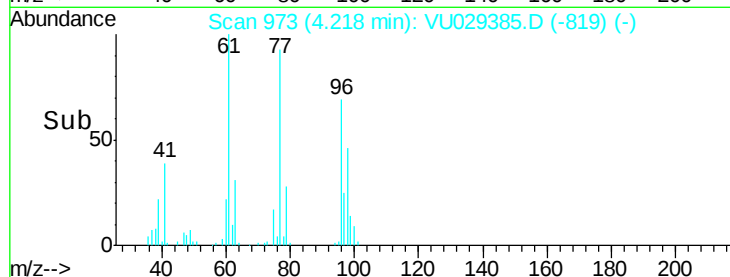
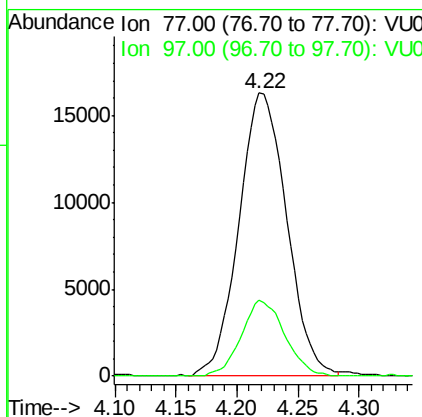
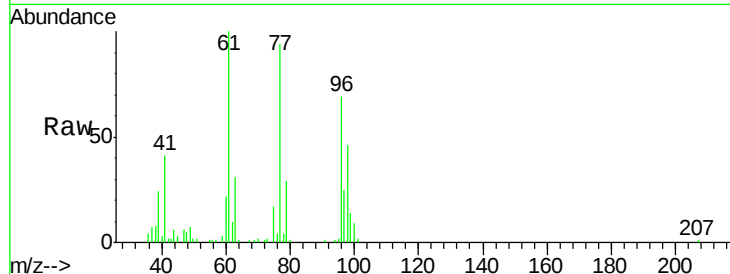
#21  
 2,2-Dichloropropane  
 Concen: 1.791 ug/l  
 RT: 4.22 min Scan# 973  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

Tot Ion: 77 Resp: 44222  
 Ion Ratio Lower Upper  
 77 100  
 97 24.4 15.6 23.4#

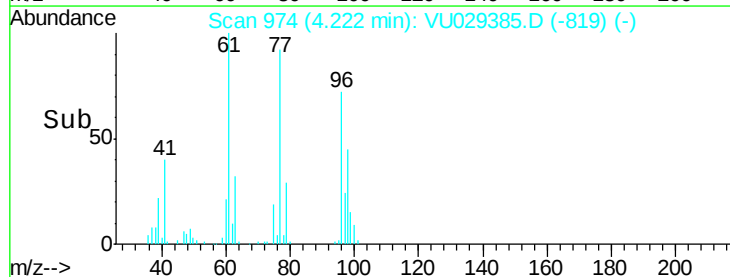
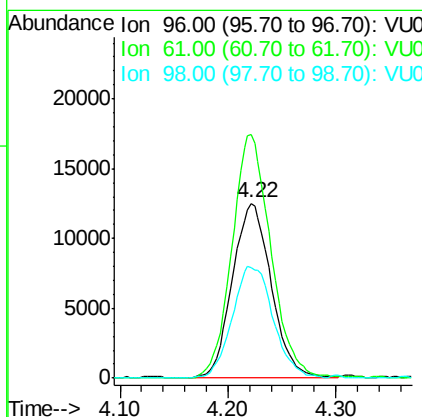
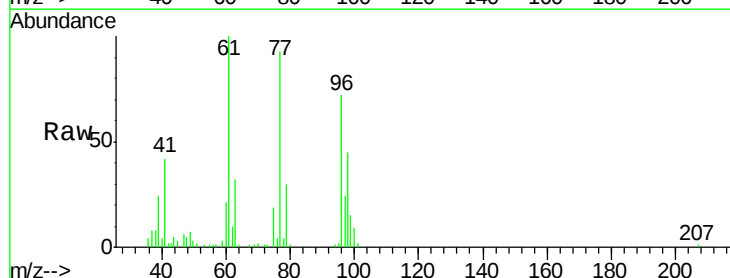
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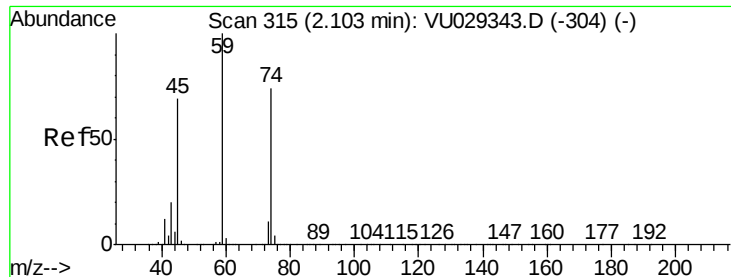
MMDadoda  
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#22  
 cis-1,2-Dichloroethene  
 Concen: 1.984 ug/l  
 RT: 4.22 min Scan# 974  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Tgt Ion: 96 Resp: 31452  
 Ion Ratio Lower Upper  
 96 100  
 61 138.8 0.0 460.0  
 98 67.2 32.6 97.7





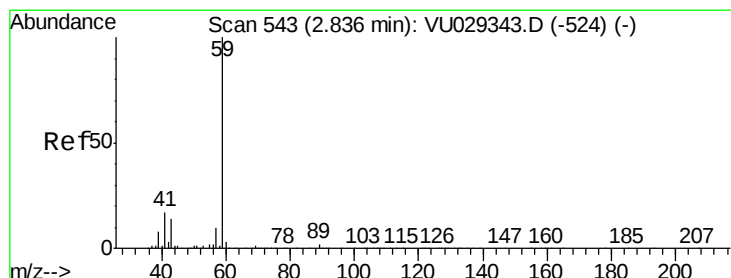
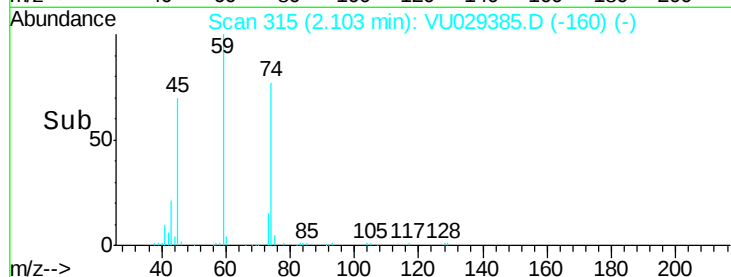
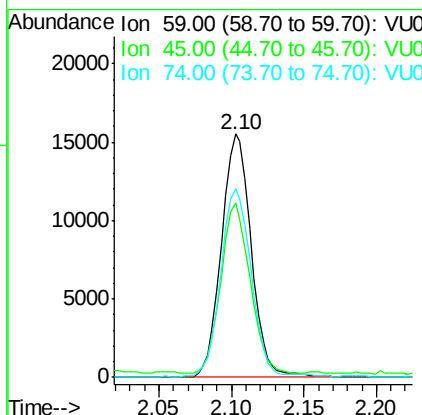
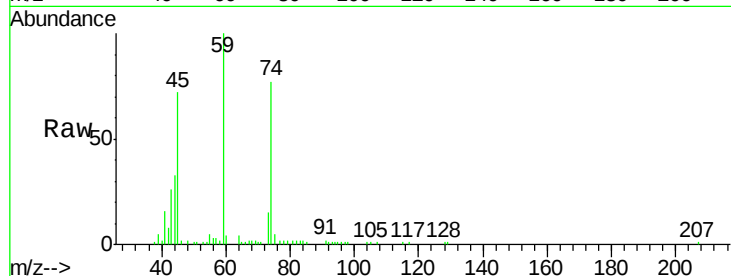
#23  
Diethyl Ether  
Concen: 1.827 ug/l  
RT: 2.10 min Scan# 315  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 69.0  | 64.2  | 96.4  |
| 74      | 80.2  | 55.3  | 82.9  |

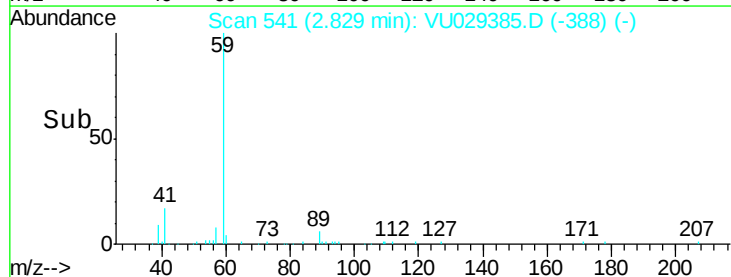
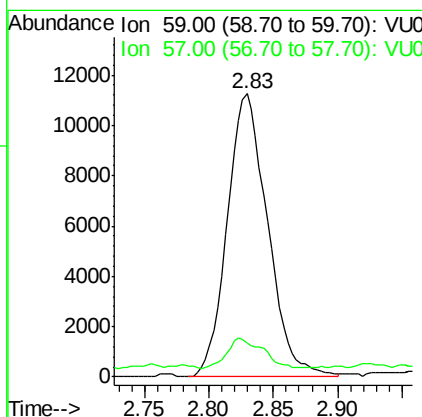
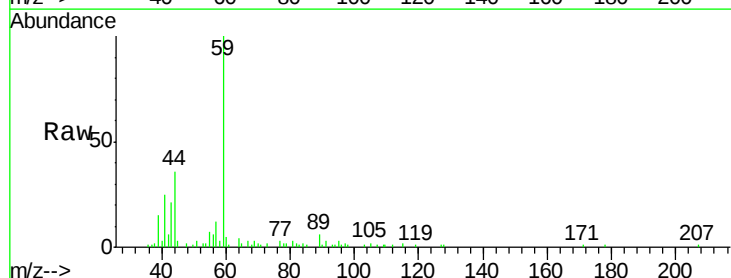
Manual Integrations  
APPROVED

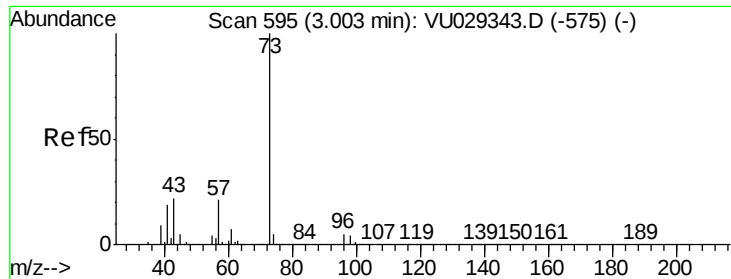
MMDadoda  
2/18/2019 12:16:01 PM



#24  
tert-Butyl Alcohol  
Concen: 19.554 ug/l  
RT: 2.83 min Scan# 541  
Delta R.T. -0.01 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 9.4   | 8.8   | 13.2  |





#25

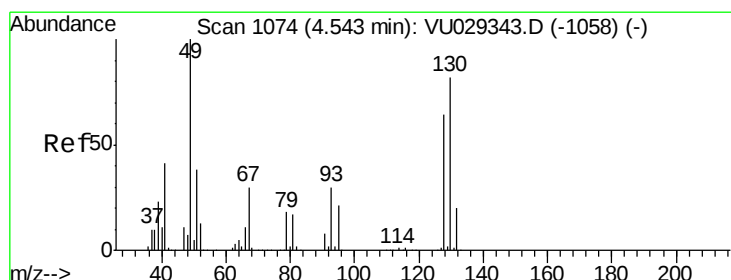
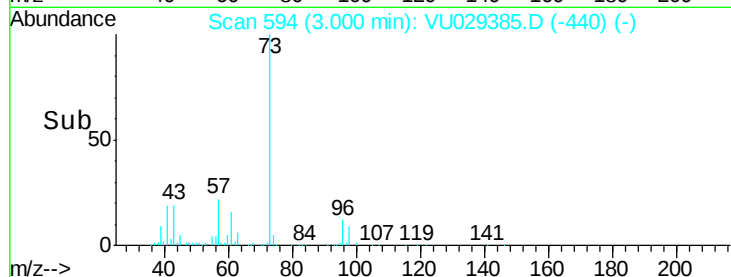
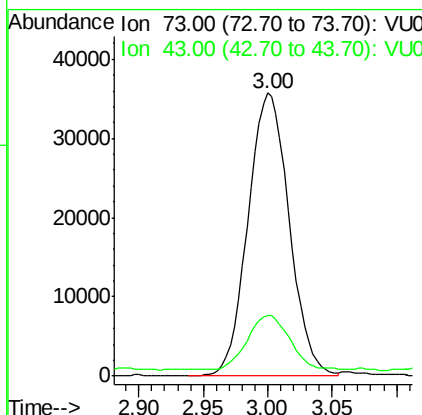
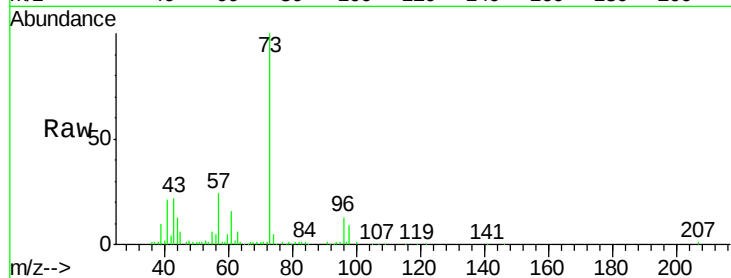
Methyl tert-Butyl Ether  
 Concen: 1.882 ug/l  
 RT: 3.00 min Scan# 594  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 19.8  | 22.1  | 33.1# |

Manual Integrations  
 APPROVED

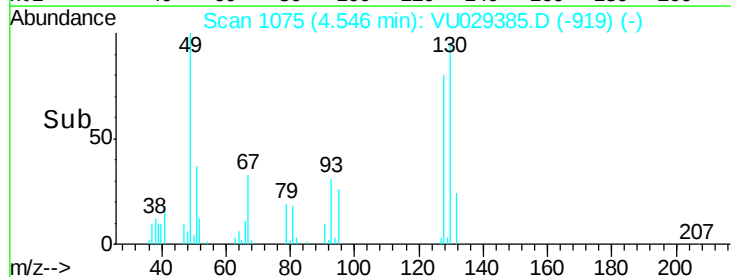
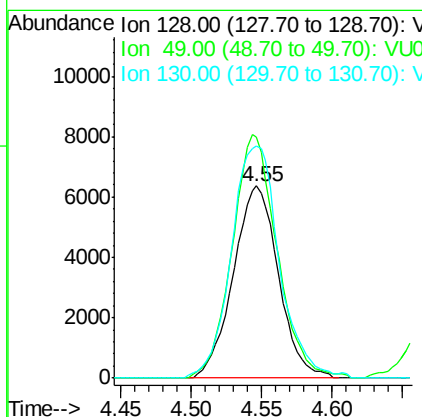
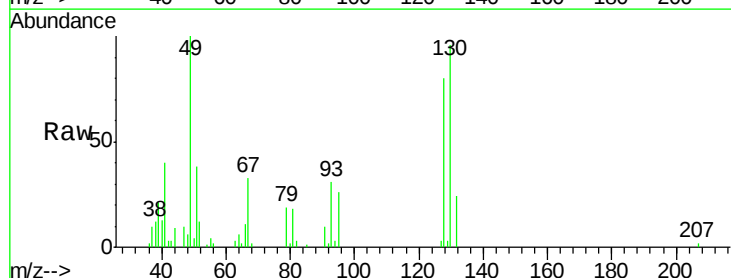
MMDadoda  
 2/18/2019 12:16:01 PM

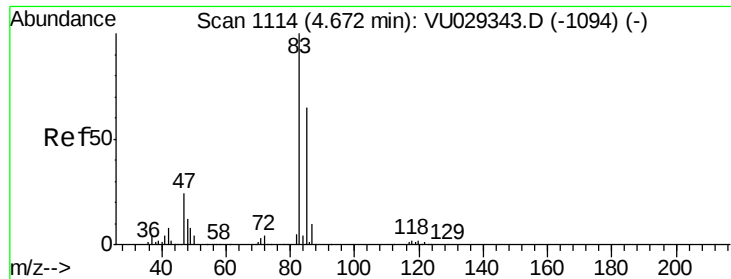


#26

Bromochloromethane  
 Concen: 2.037 ug/l  
 RT: 4.55 min Scan# 1075  
 Delta R.T. 0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 126.1 | 0.0   | 401.6 |
| 130     | 128.7 | 108.0 | 162.0 |





#27

Chloroform

Concen: 1.940 ug/l

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 83 Resp: 50325

Ion Ratio Lower Upper

83 100

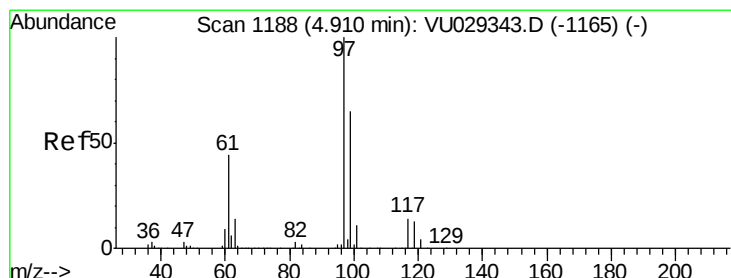
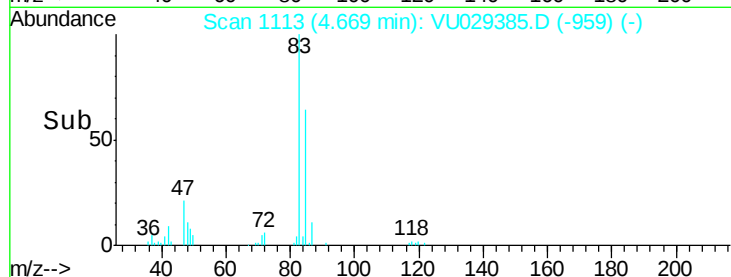
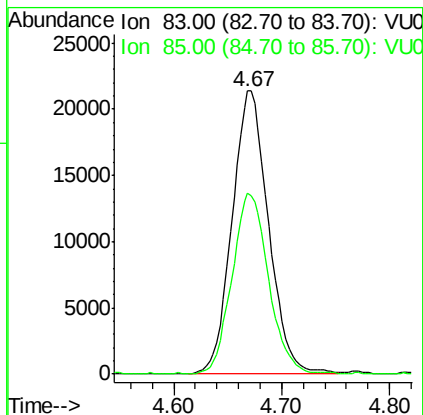
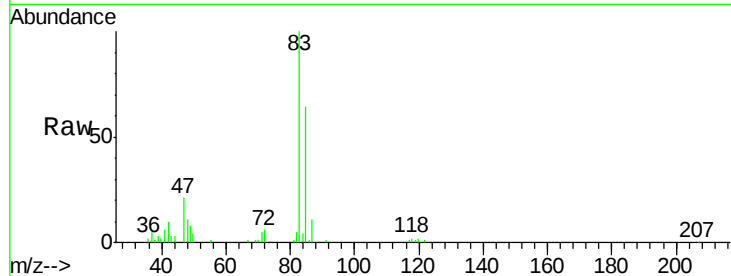
85 64.0 0.0 126.6

Manual Integrations

APPROVED

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2/18/2019 12:16:01 PM



#28

1,1,1-Trichloroethane

Concen: 1.949 ug/l

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

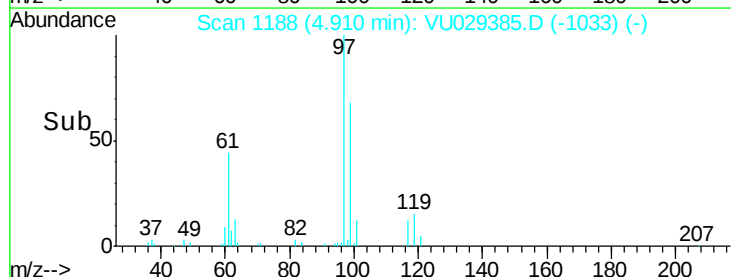
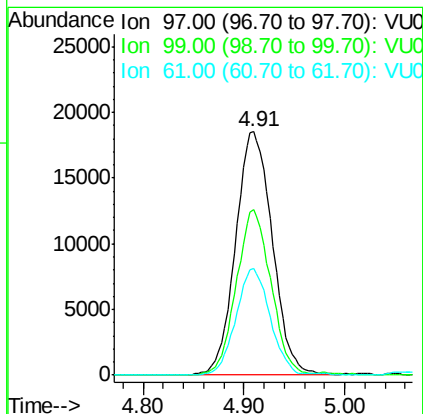
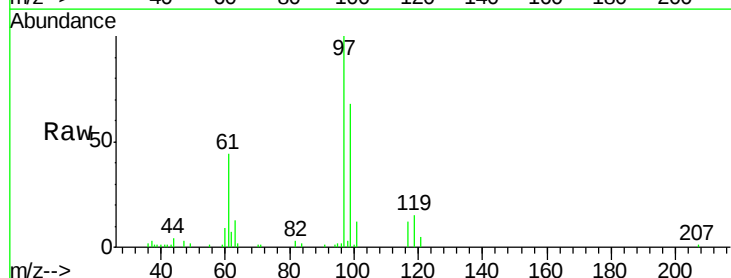
Tgt Ion: 97 Resp: 46857

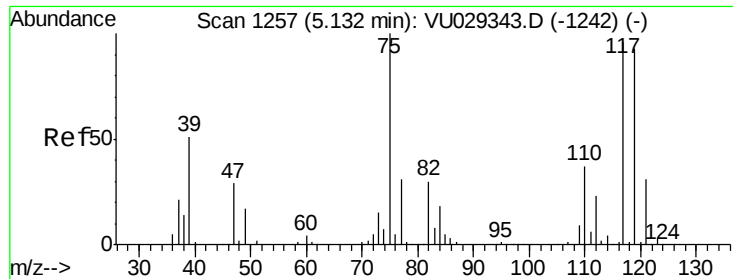
Ion Ratio Lower Upper

97 100

99 63.9 32.4 97.2

61 41.1 24.4 73.2





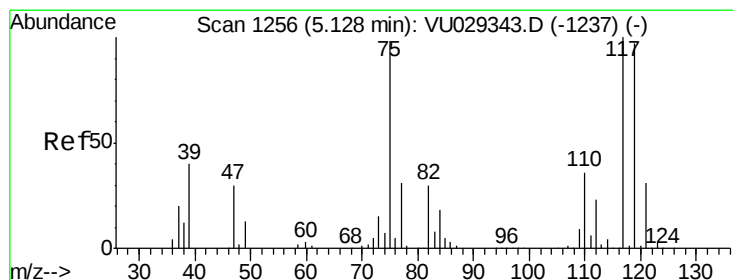
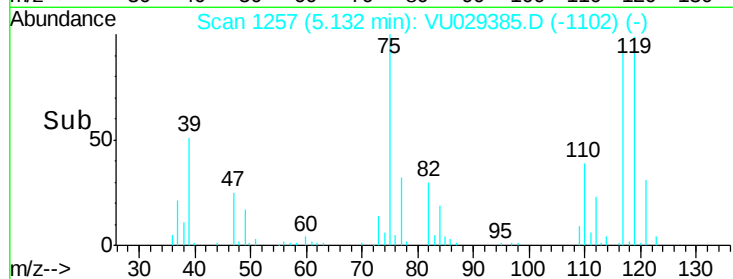
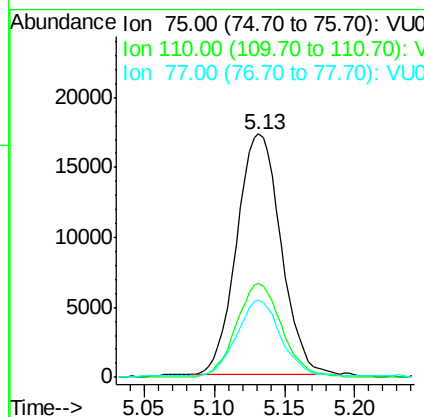
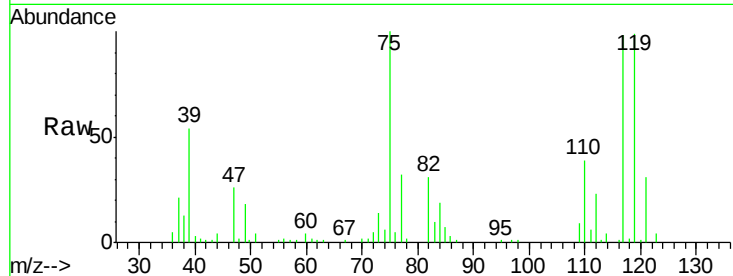
#29  
 1,1-Dichloropropene  
 Concen: 1.806 ug/l  
 RT: 5.13 min Scan# 1257  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 40.4  | 15.4  | 46.2  |
| 77      | 31.2  | 24.1  | 36.1  |

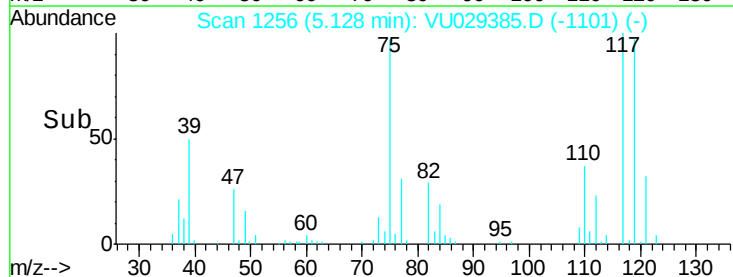
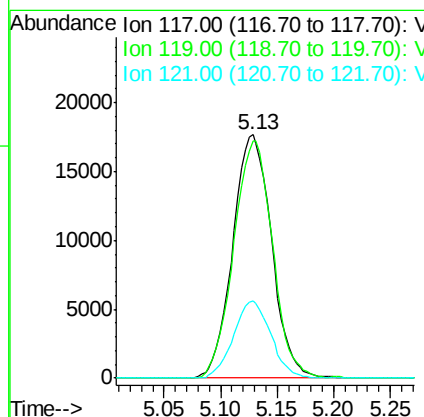
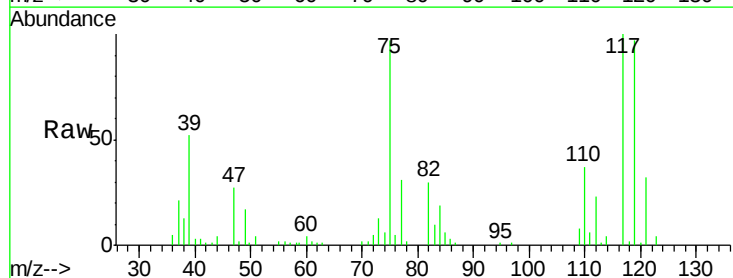
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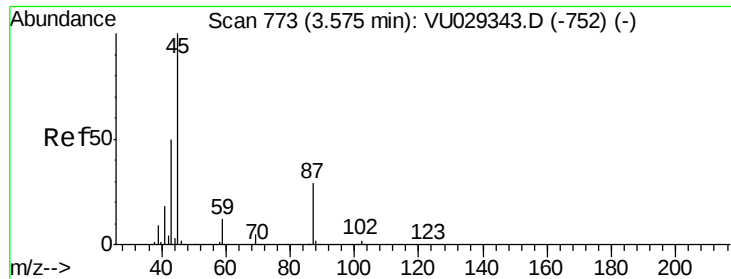
MMDadoda  
 2/18/2019 12:16:01 PM



#30  
 Carbon Tetrachloride  
 Concen: 1.937 ug/l  
 RT: 5.13 min Scan# 1256  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.5  | 76.8  | 115.2 |
| 121     | 31.7  | 24.4  | 36.6  |





#31

Isopropyl Ether

Concen: 2.170 ug/l

RT: 3.58 min Scan# 773

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 45 Resp: 87327

Ion Ratio Lower Upper

45 100

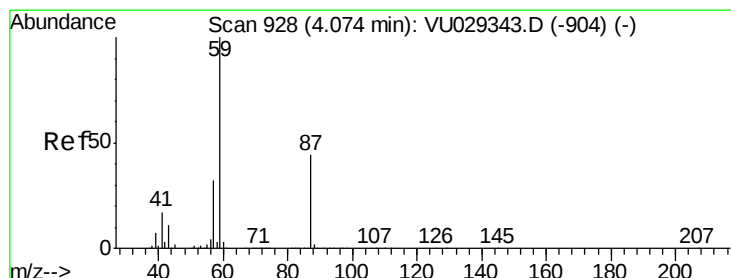
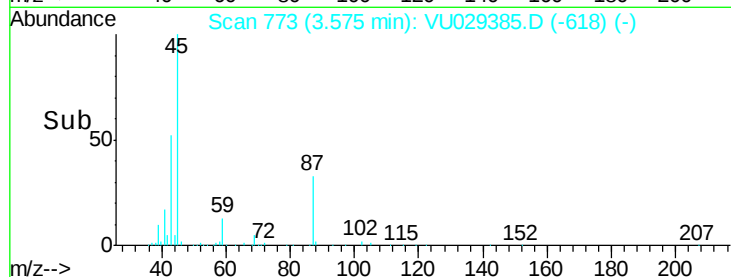
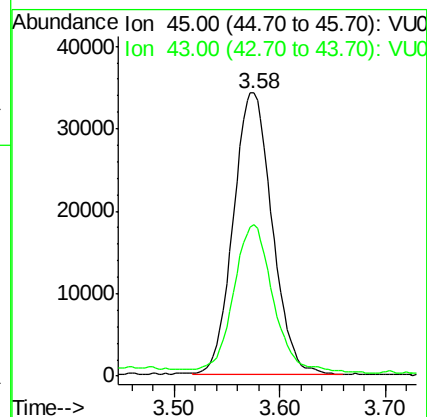
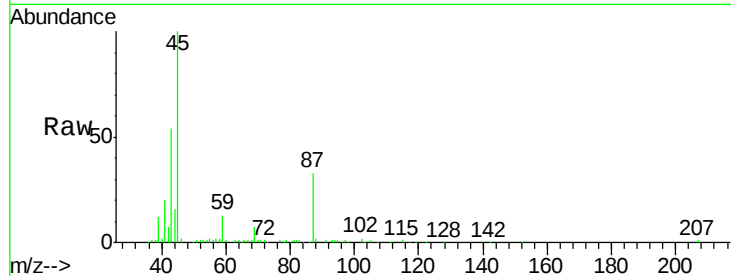
43 51.2 28.4 85.3

Manual Integrations

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2/18/2019 12:16:01 PM



#32

Ethyl-t-butyl ether

Concen: 1.797 ug/l

RT: 4.07 min Scan# 928

Delta R.T. -0.00 min

Lab File: VU029385.D

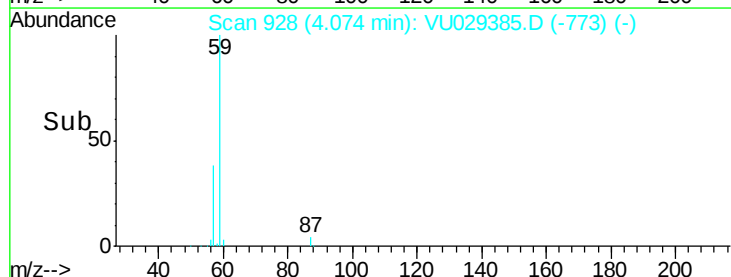
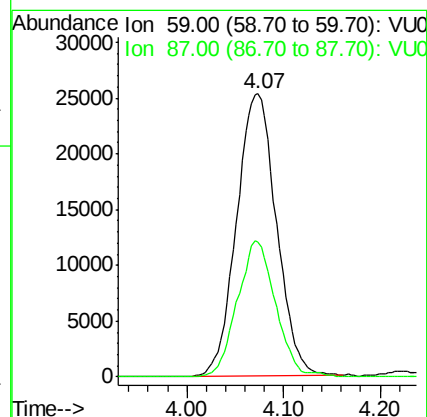
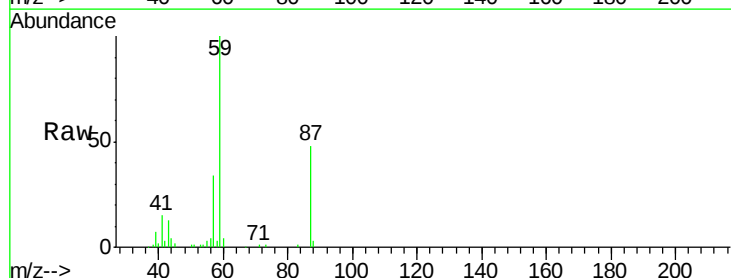
Acq: 08 Feb 2019 19:31

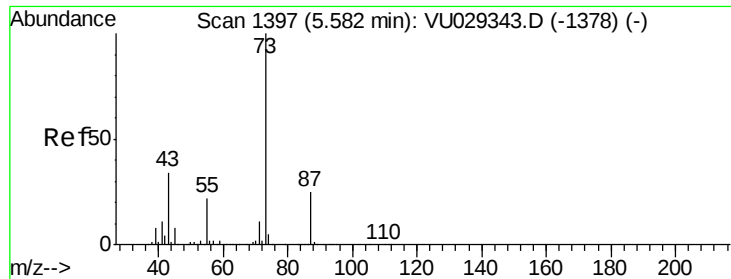
Tgt Ion: 59 Resp: 72453

Ion Ratio Lower Upper

59 100

87 44.2 31.1 46.7





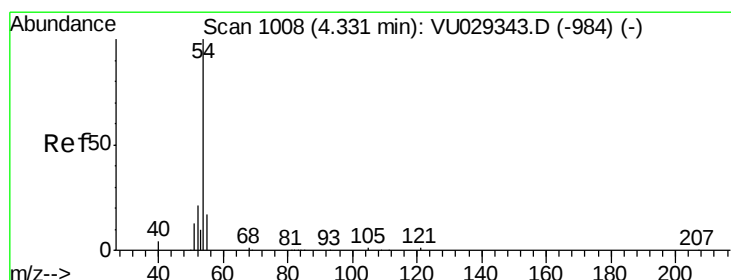
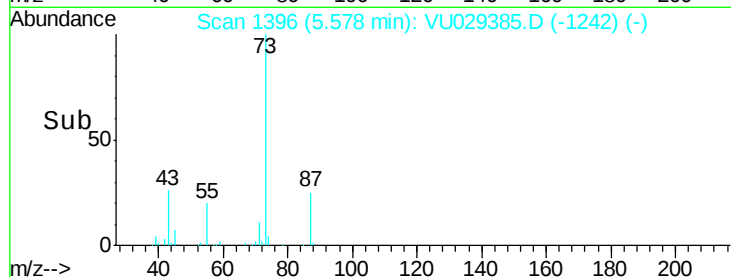
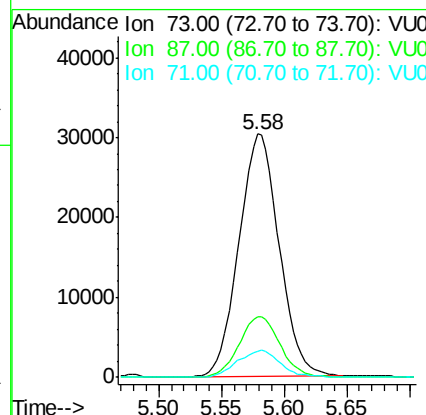
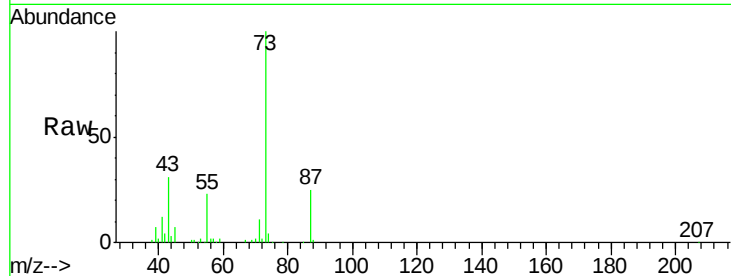
#33  
Tert-Amvl methvl ether  
Concen: 1.855 ug/l  
RT: 5.58 min Scan# 1396  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 25.5  | 19.4  | 29.0  |
| 71      | 11.8  | 9.0   | 13.4  |

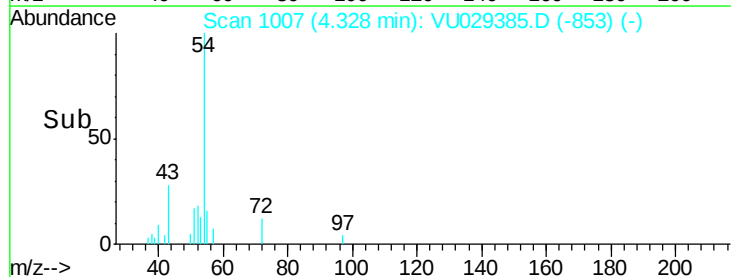
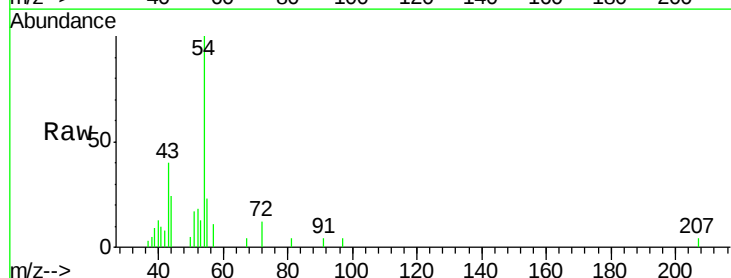
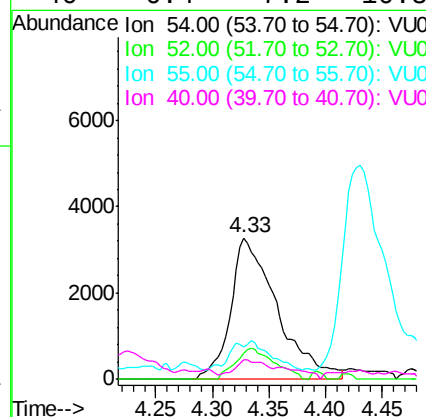
Manual Integrations  
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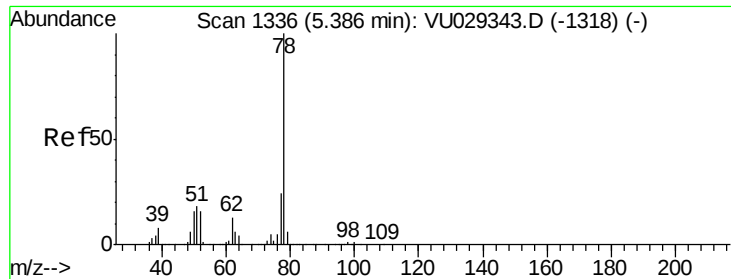
MMDadoda  
2/18/2019 12:16:01 PM



#34  
Propionitrile  
Concen: 9.768 ug/l  
RT: 4.33 min Scan# 1007  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 18.0  | 18.9  | 28.3# |
| 55      | 6.4   | 15.1  | 22.7# |
| 40      | 6.4   | 7.2   | 10.8# |





#35

Benzene

Concen: 1.873 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 78 Resp: 108102

Ion Ratio Lower Upper

78 100

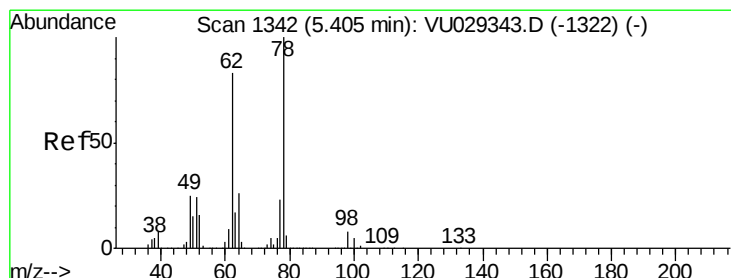
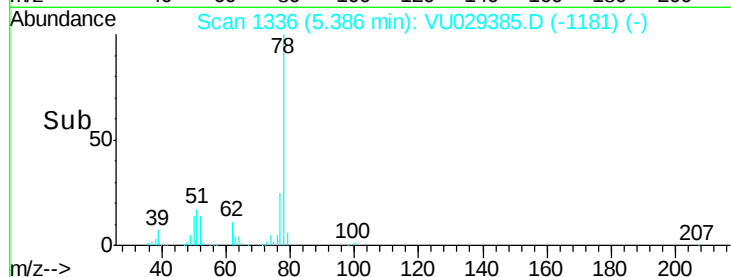
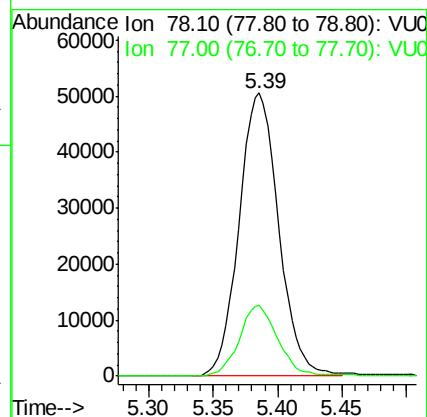
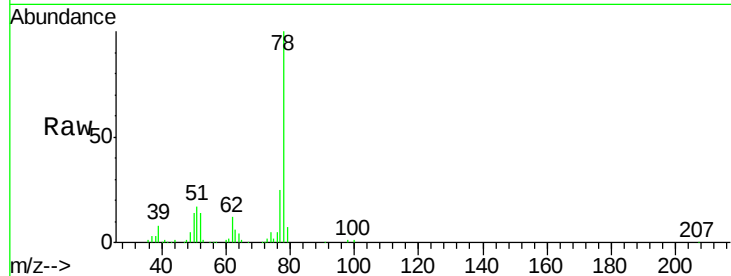
77 25.0 19.8 29.8

Manual Integrations

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2/18/2019 12:16:01 PM



#36

1,2-Dichloroethane

Concen: 1.810 ug/l

RT: 5.40 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VU029385.D

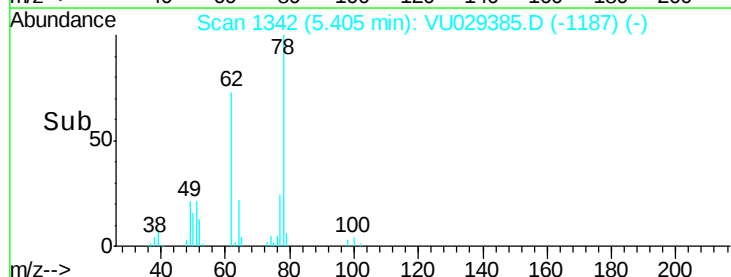
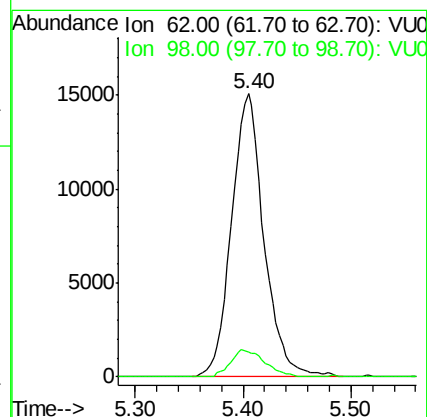
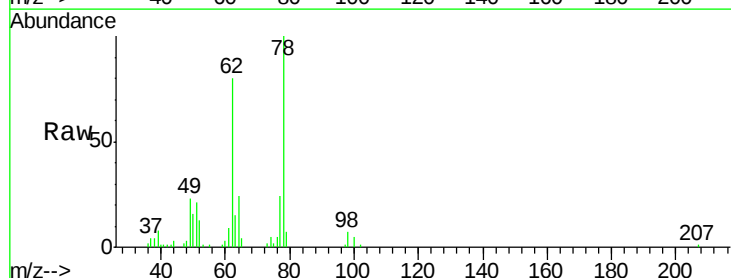
Acq: 08 Feb 2019 19:31

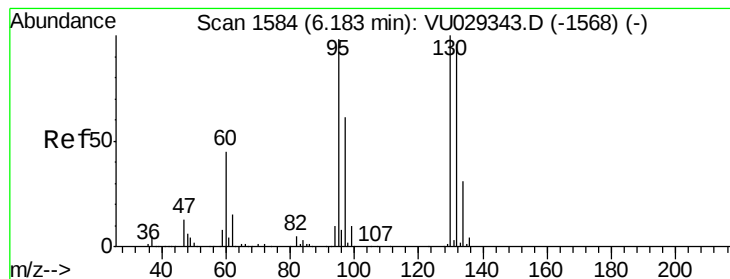
Tgt Ion: 62 Resp: 31600

Ion Ratio Lower Upper

62 100

98 10.0 4.9 7.3#





#37

Trichloroethene

Concen: 2.020 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:130 Resp: 33457

Ion Ratio Lower Upper

130 100

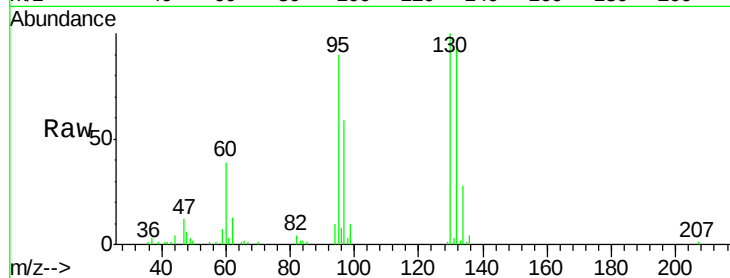
95 90.2 85.4 128.0

Manual Integrations

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2/18/2019 12:16:01 PM



Abundance Ion 129.90 (129.60 to 130.60): VU029385.D (-1429) (-)

Ion 94.90 (94.60 to 95.60): VU029385.D (-1429) (-)

6.18

20000

15000

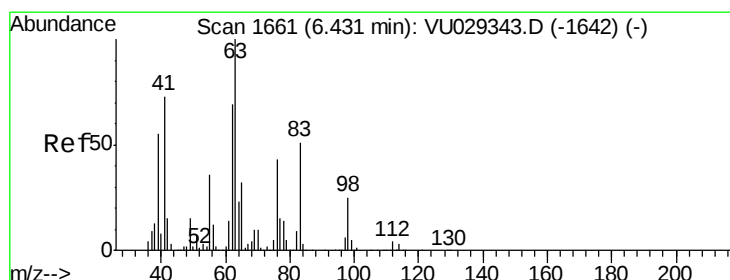
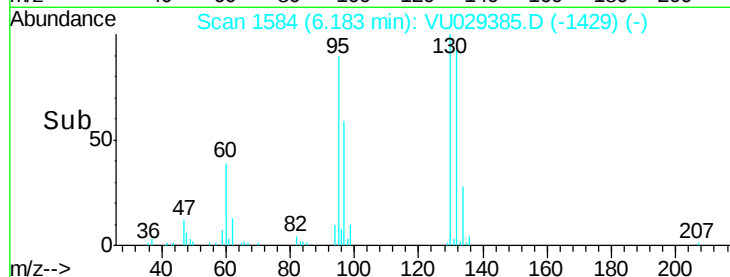
10000

5000

0

6.10 6.20 6.30

Time-->



#38

1,2-Dichloropropane

Concen: 1.829 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU029385.D

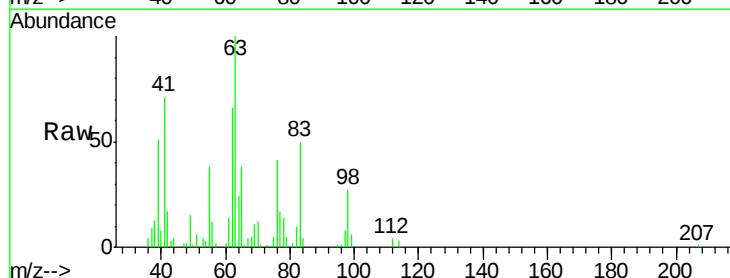
Acq: 08 Feb 2019 19:31

Tgt Ion: 63 Resp: 27465

Ion Ratio Lower Upper

63 100

65 37.6 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU029385.D (-1506) (-)

Ion 65.00 (64.70 to 65.70): VU029385.D (-1506) (-)

6.43

15000

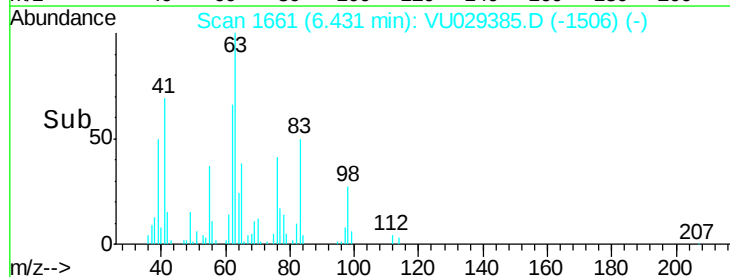
10000

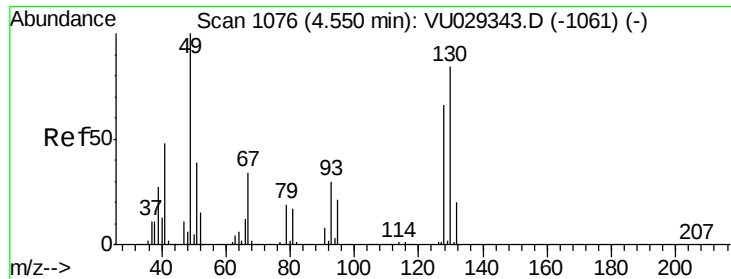
5000

0

6.35 6.40 6.45 6.50

Time-->





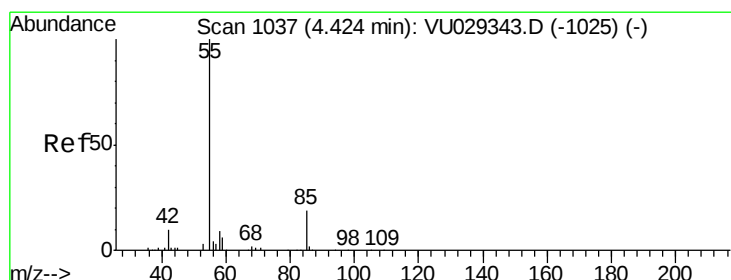
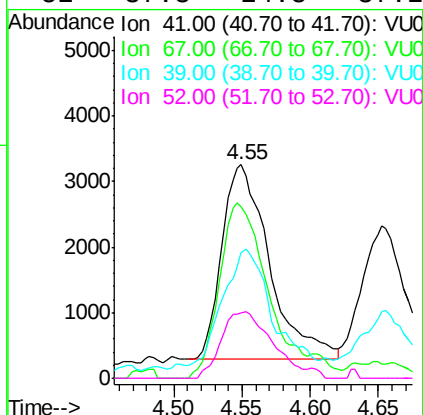
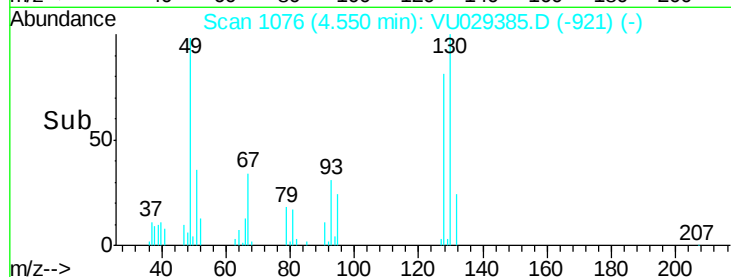
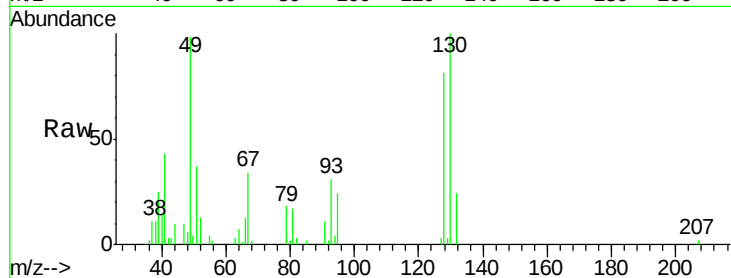
#39  
Methacrylonitrile  
Concen: 1.475 ug/l  
RT: 4.55 min Scan# 1076  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 67      | 90.1  | 50.1  | 75.1# |
| 39      | 58.9  | 47.9  | 71.9  |
| 52      | 37.3  | 24.8  | 37.2# |

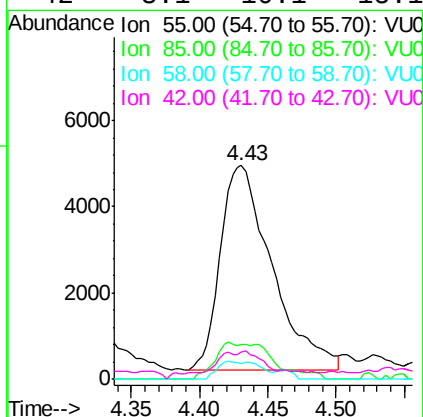
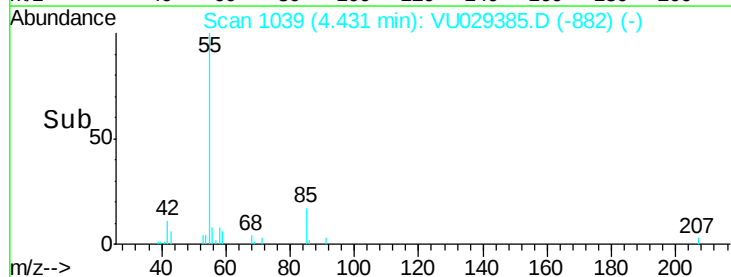
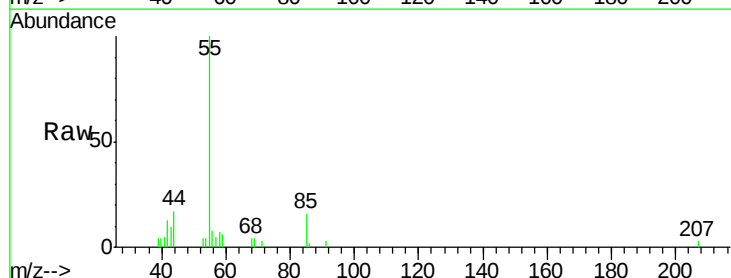
Manual Integrations  
APPROVED

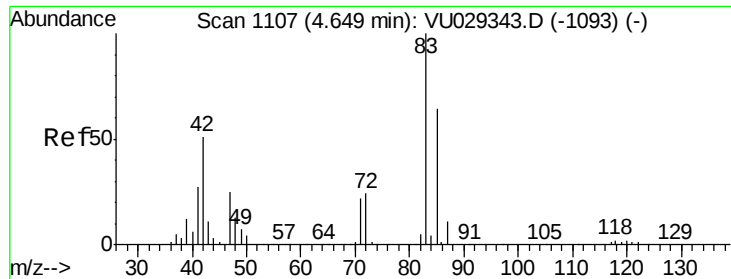
MMDadoda  
2/18/2019 12:16:01 PM



#40  
Methyl acrylate  
Concen: 1.696 ug/l  
RT: 4.43 min Scan# 1039  
Delta R.T. 0.01 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 55      | 100   |       |       |
| 85      | 7.8   | 11.3  | 16.9# |
| 58      | 6.9   | 6.2   | 9.4   |
| 42      | 3.1   | 10.1  | 15.1# |





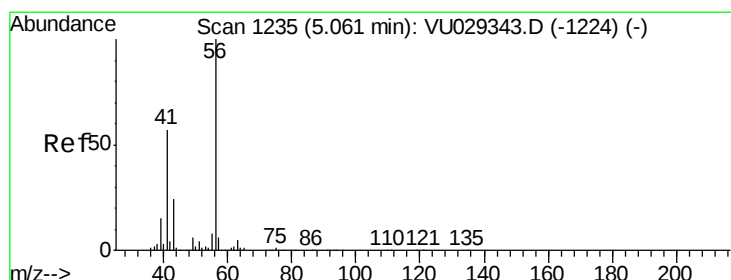
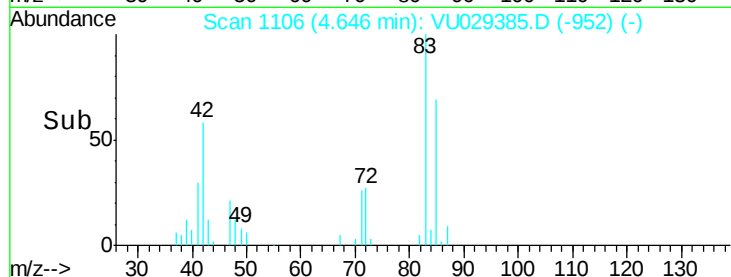
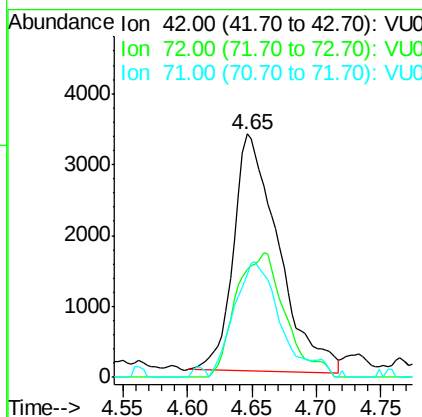
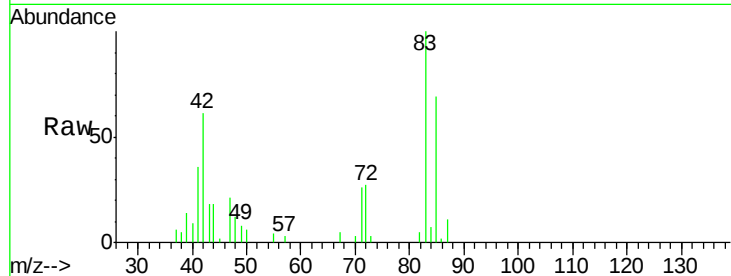
#41  
Tetrahydrofuran  
Concen: 3.309 ug/l  
RT: 4.65 min Scan# 1106  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 57.4  | 33.1  | 49.7# |
| 71      | 50.3  | 30.2  | 45.2# |

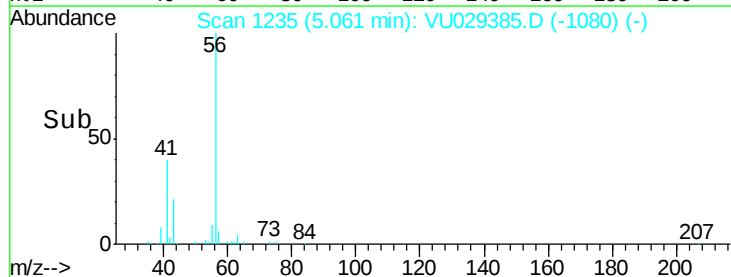
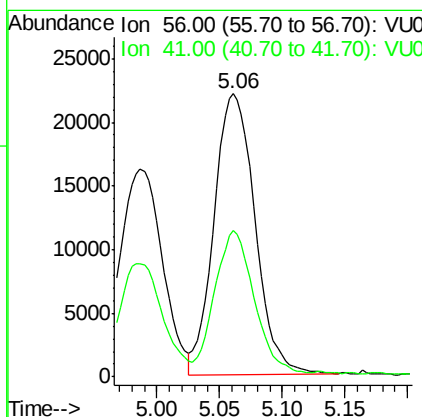
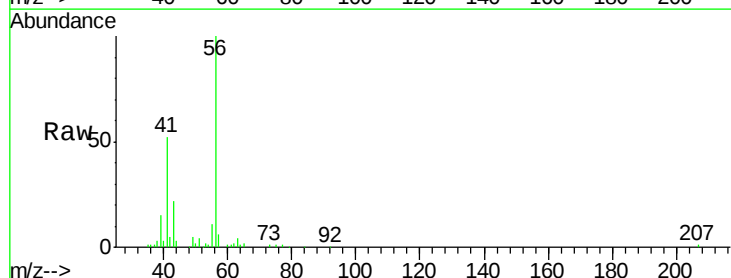
Manual Integrations  
APPROVED

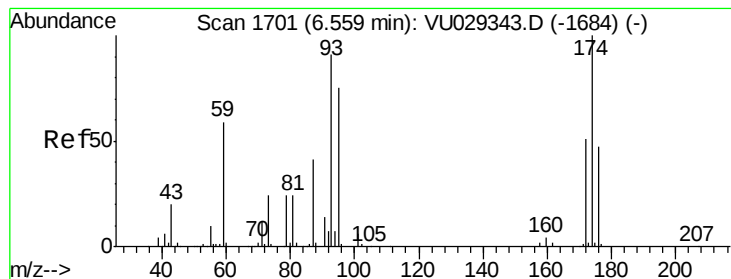
MMDadoda  
2/18/2019 12:16:01 PM



#42  
1-Chlorobutane  
Concen: 1.776 ug/l  
RT: 5.06 min Scan# 1235  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 49.0  | 31.3  | 93.8  |





#43

Dibromomethane

Concen: 1.803 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

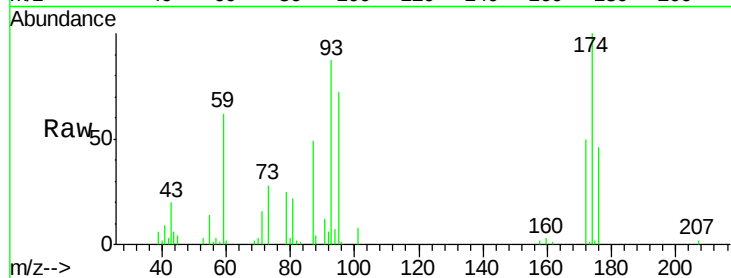
ClientSampleId :

VU0208WBS02

| Tot Ion | 93    | Resp  | 14423  |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 93      | 100   |       |        |
| 95      | 89.5  | 68.2  | 102.2  |
| 174     | 120.3 | 77.6  | 116.4# |

Manual Integrations  
APPROVED

MMDadoda  
2/18/2019 12:16:01 PM

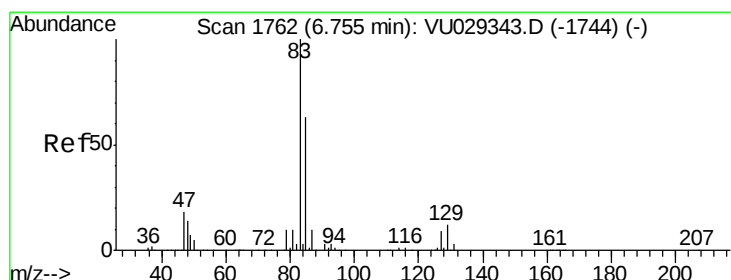
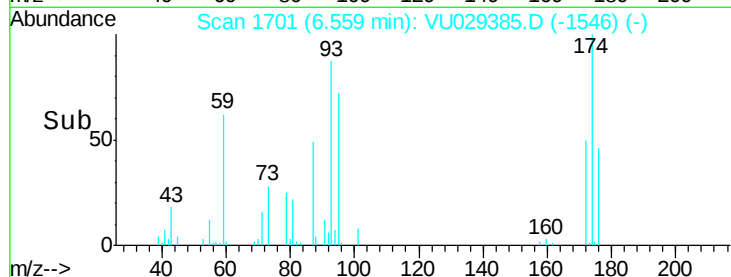
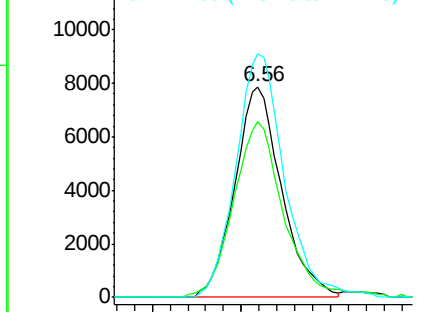


Abundance

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: 1.825 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

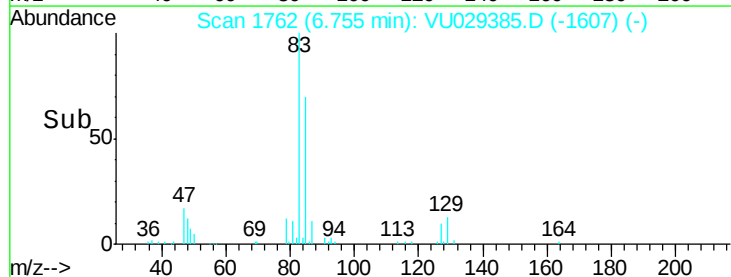
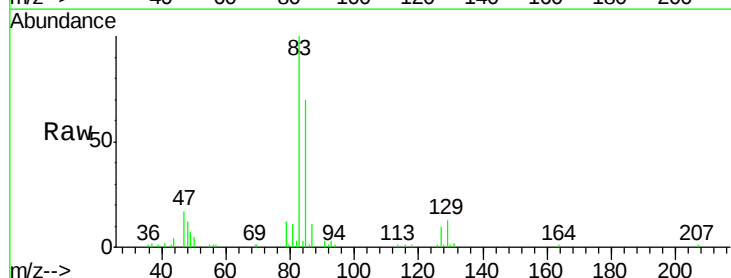
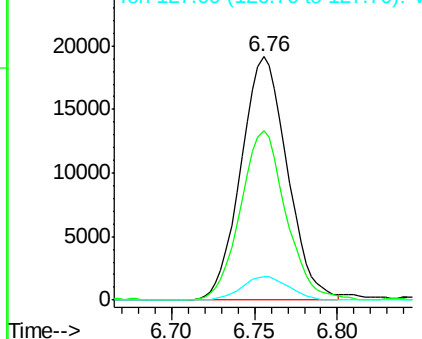
| Tgt Ion | 83    | Resp  | 37209 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 85      | 69.6  | 49.2  | 73.8  |
| 127     | 9.5   | 7.0   | 10.6  |

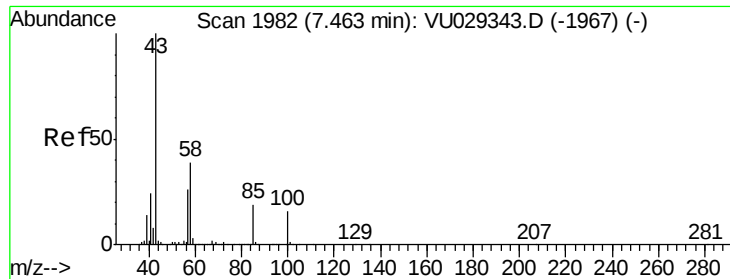
Abundance

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





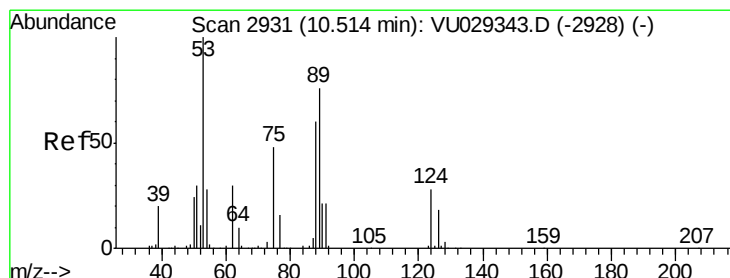
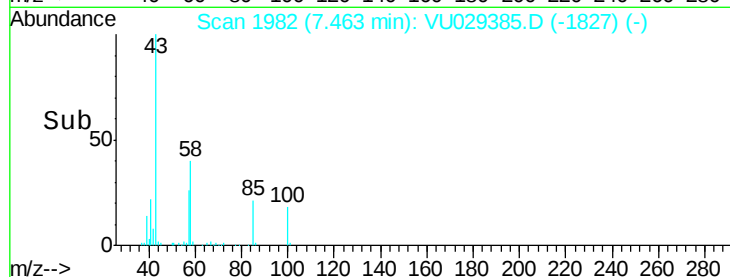
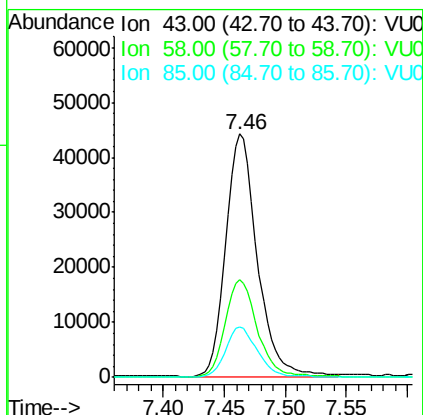
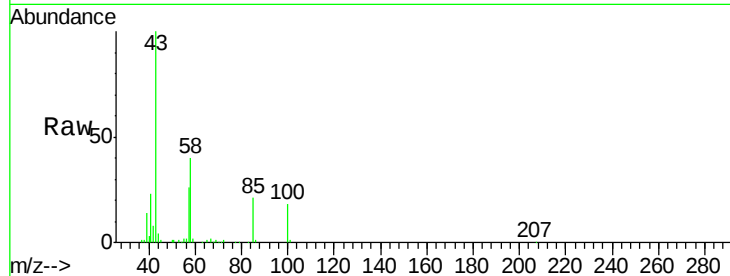
#45  
4-Methyl-2-Pentanone  
Concen: 8.525 ug/l  
RT: 7.46 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.6  | 17.6  | 52.8  |
| 85      | 20.6  | 12.3  | 18.5# |

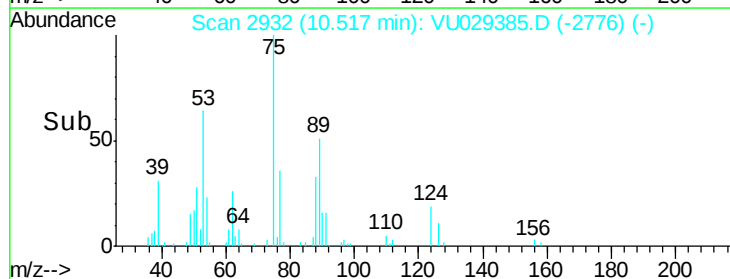
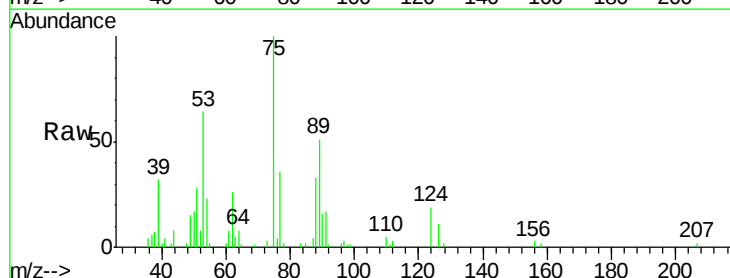
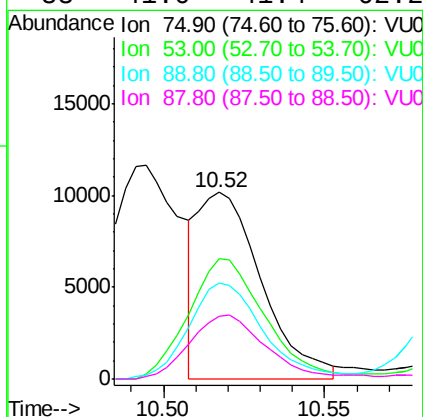
Manual Integrations  
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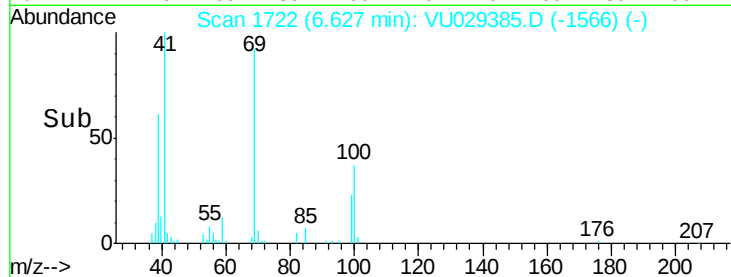
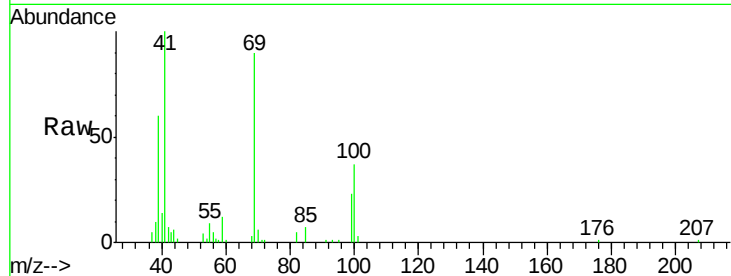
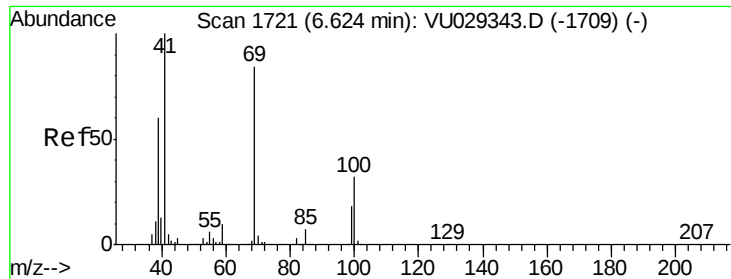
MMDadoda  
2/18/2019 12:16:01 PM



#46  
t-1,4-Dichloro-2-butene  
Concen: 3.086 ug/l m  
RT: 10.52 min Scan# 2932  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 77.2  | 78.2  | 117.4# |
| 89      | 60.0  | 44.2  | 66.4   |
| 88      | 41.0  | 41.4  | 62.2#  |





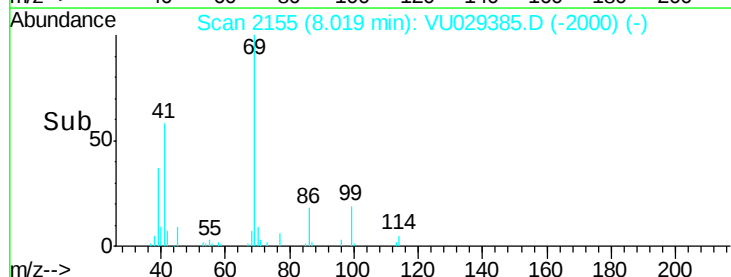
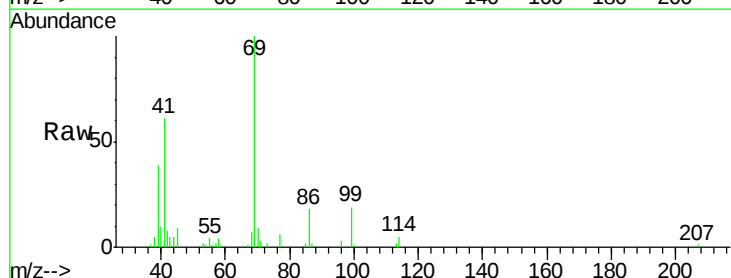
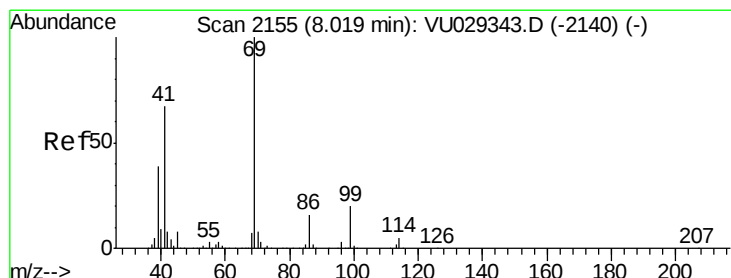
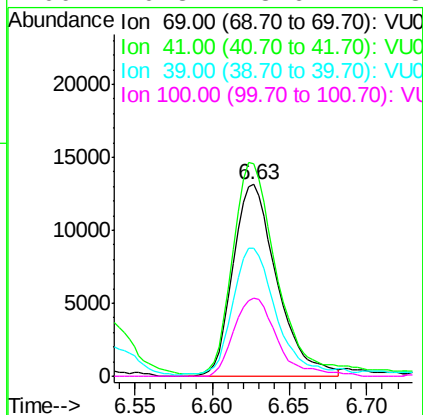
#47  
Methyl methacrylate  
Concen: 3.685 ug/l  
RT: 6.63 min Scan# 1722  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 109.4 | 0.0   | 296.2 |
| 39      | 63.7  | 71.2  | 106.8 |
| 100     | 40.3  | 28.6  | 42.8  |

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

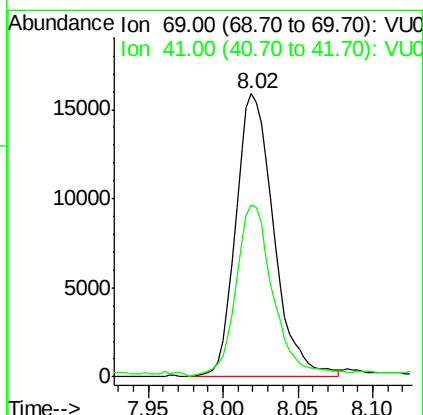
Manual Integrations  
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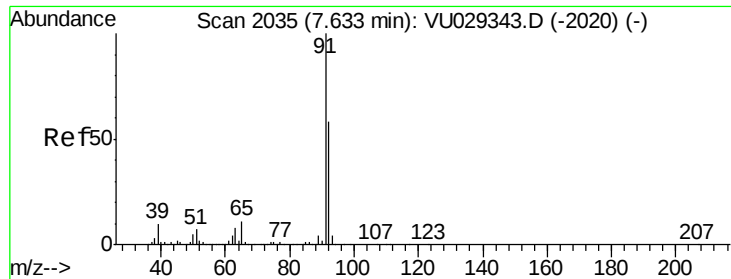
MMDadoda  
2/18/2019 12:16:01 PM



#48  
Ethyl methacrylate  
Concen: 1.862 ug/l  
RT: 8.02 min Scan# 2155  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 60.3  | 39.9  | 119.7 |





#49

Toluene

Concen: 1.961 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion: 92 Resp: 72421

Ion Ratio Lower Upper

92 100

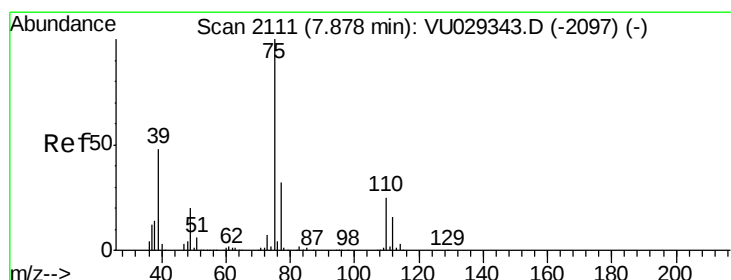
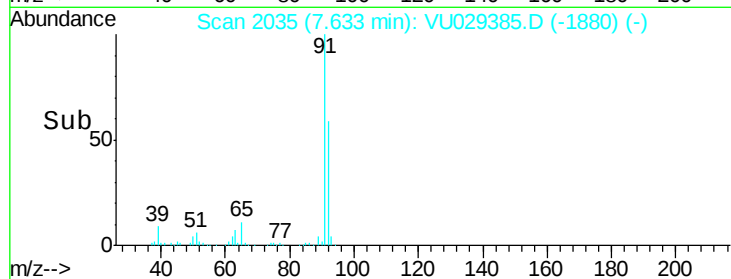
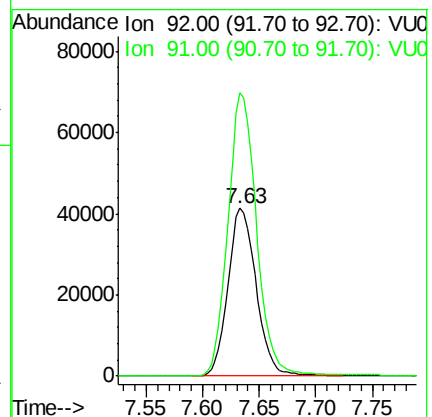
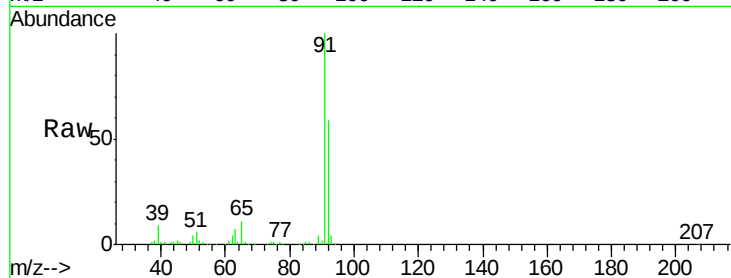
91 169.9 140.7 211.1

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 1.752 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU029385.D

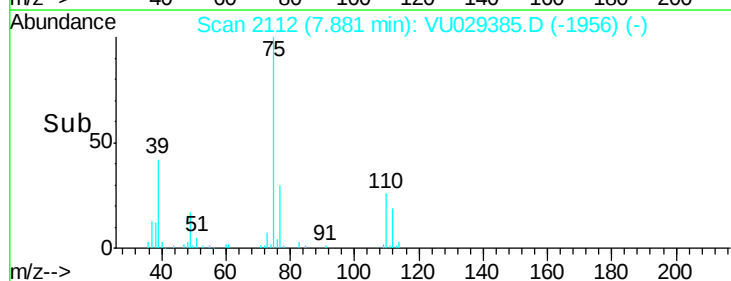
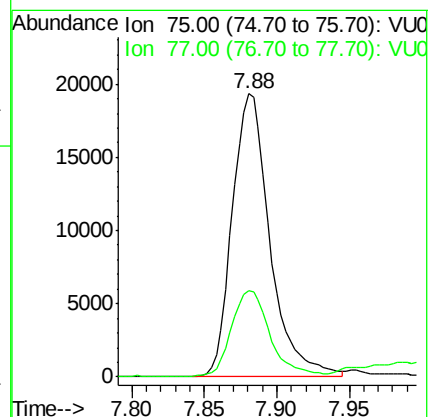
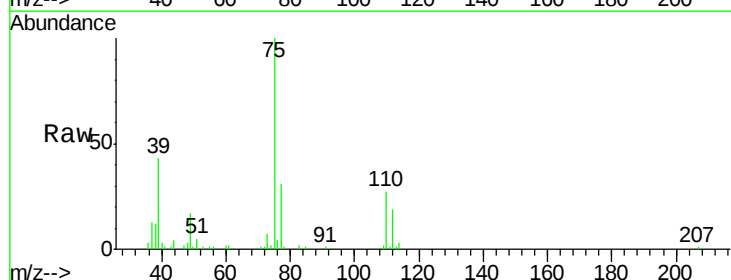
Acq: 08 Feb 2019 19:31

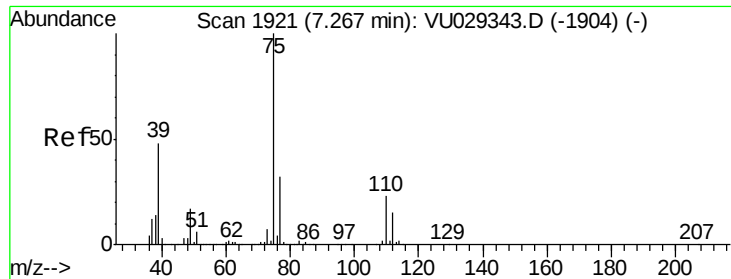
Tgt Ion: 75 Resp: 35016

Ion Ratio Lower Upper

75 100

77 30.5 23.6 35.4





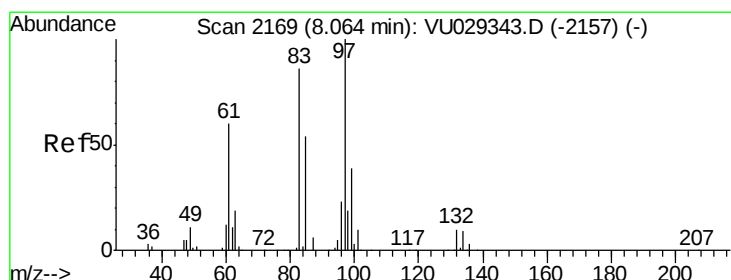
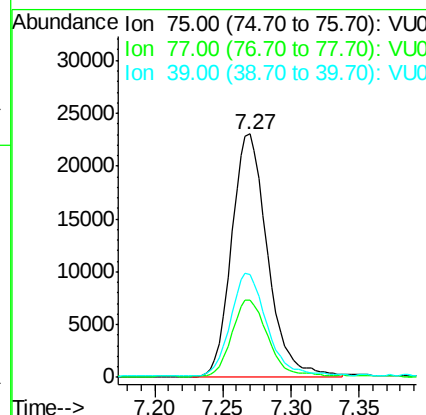
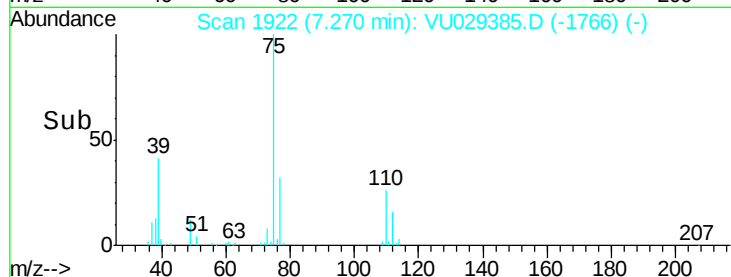
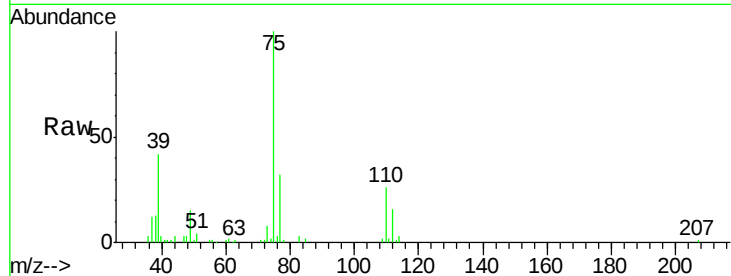
#51  
 cis-1,3-Dichloropropene  
 Concen: 1.782 ug/l  
 RT: 7.27 min Scan# 1922  
 Delta R.T. 0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.3  | 24.9  | 37.3  |
| 39      | 41.5  | 47.2  | 70.8# |

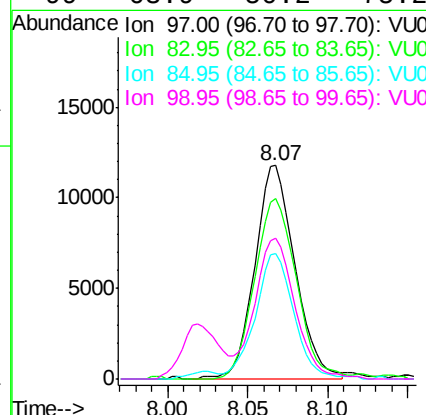
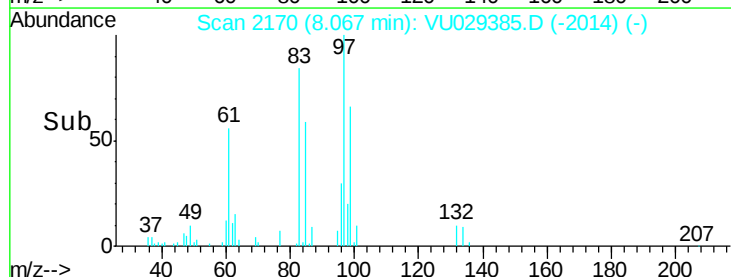
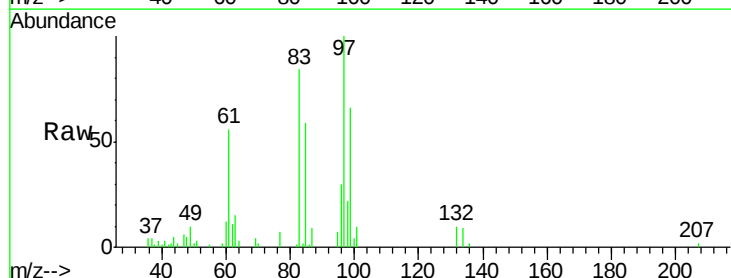
Manual Integrations  
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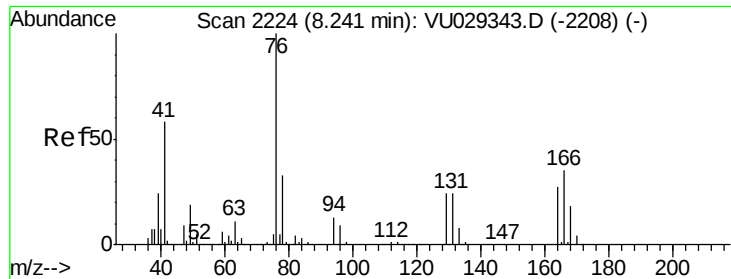
MMDadoda  
 2/18/2019 12:16:01 PM



#52  
 1,1,2-Trichloroethane  
 Concen: 1.930 ug/l  
 RT: 8.07 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 84.3  | 69.9  | 104.9 |
| 85      | 57.7  | 45.8  | 68.6  |
| 99      | 63.9  | 50.2  | 75.2  |





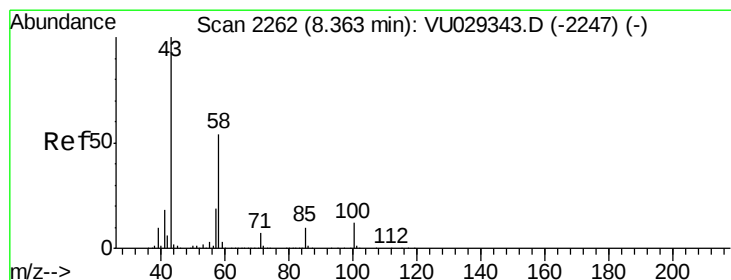
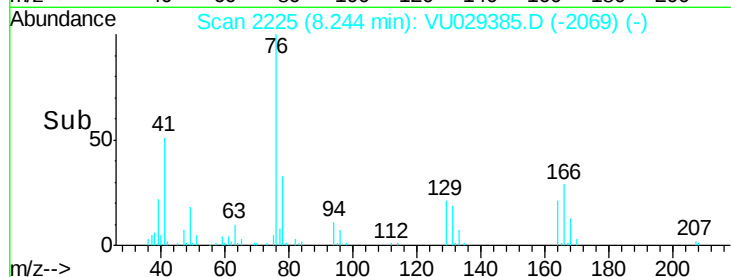
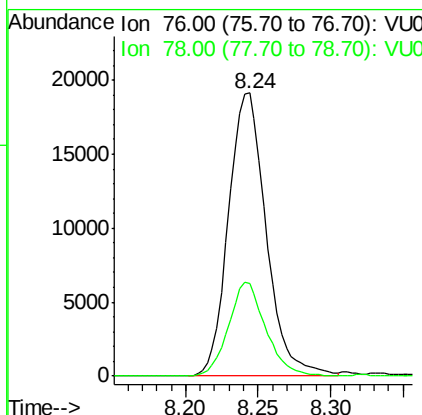
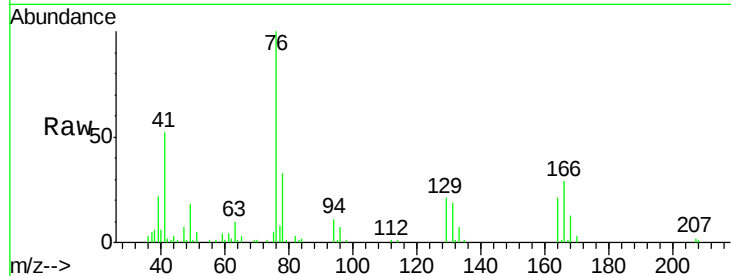
#53  
 1,3-Dichloropropane  
 Concen: 1.859 ug/l  
 RT: 8.24 min Scan# 2225  
 Delta R.T. 0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

Tot Ion: 76 Resp: 34596  
 Ion Ratio Lower Upper  
 76 100  
 78 32.6 26.3 39.5

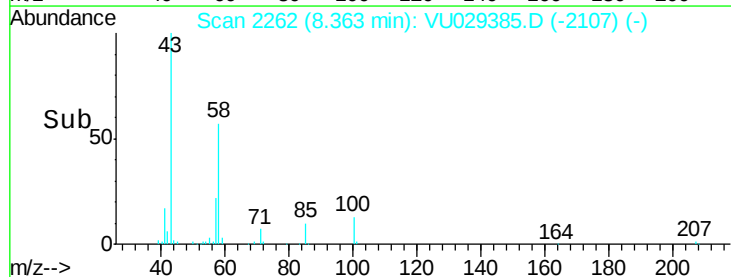
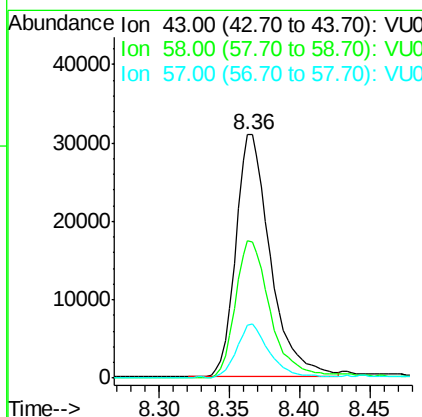
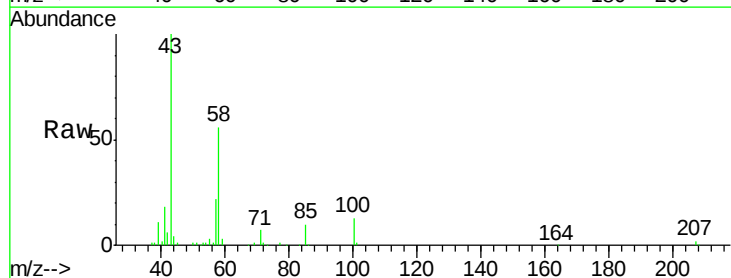
Manual Integrations  
 APPROVED

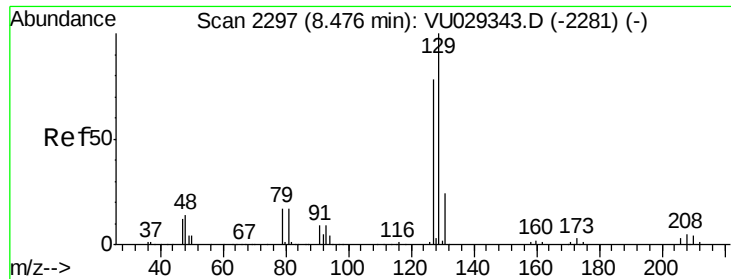
MMDadoda  
 2/18/2019 12:16:01 PM



#54  
 2-Hexanone  
 Concen: 8.110 ug/l  
 RT: 8.36 min Scan# 2262  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Tgt Ion: 43 Resp: 53311  
 Ion Ratio Lower Upper  
 43 100  
 58 57.3 26.0 66.0  
 57 20.1 0.0 37.7





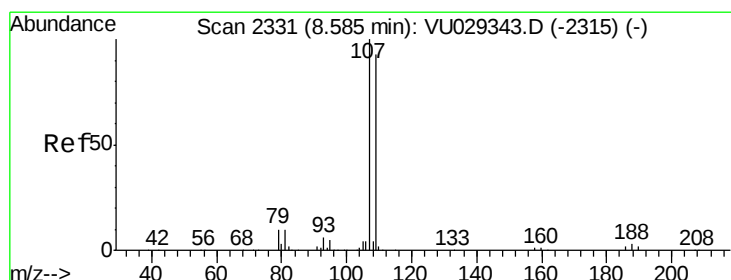
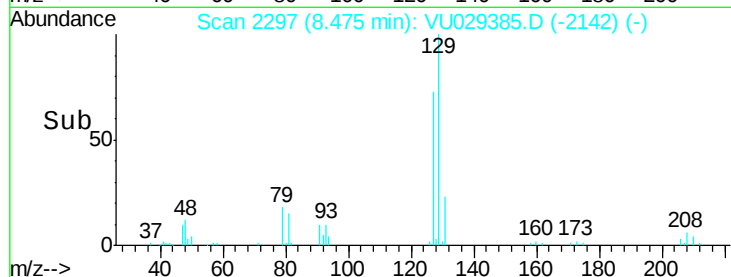
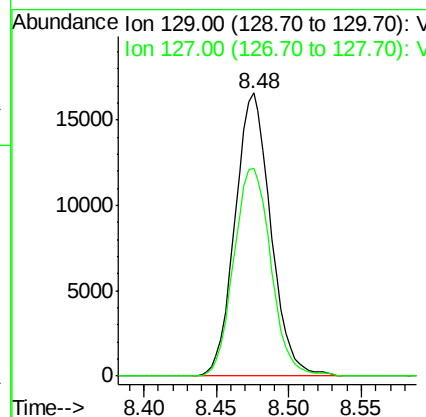
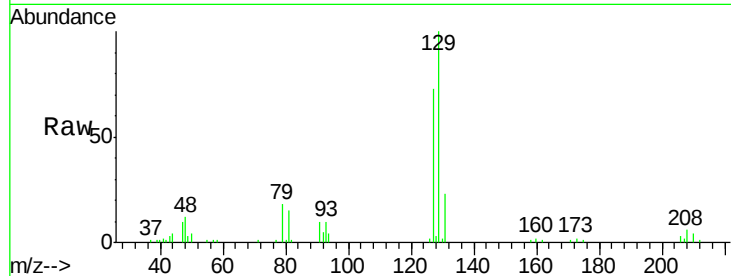
#55  
 Dibromochloromethane  
 Concen: 1.887 ug/l  
 RT: 8.48 min Scan# 2297  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 76.2  | 60.5  | 90.7  |

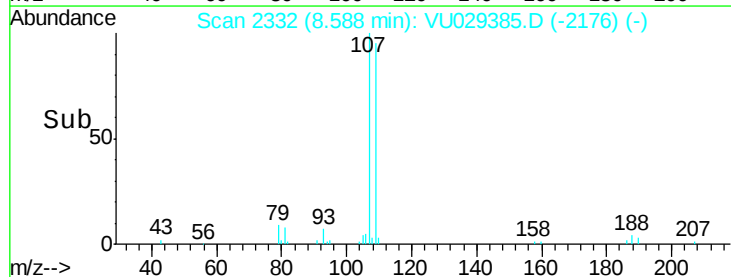
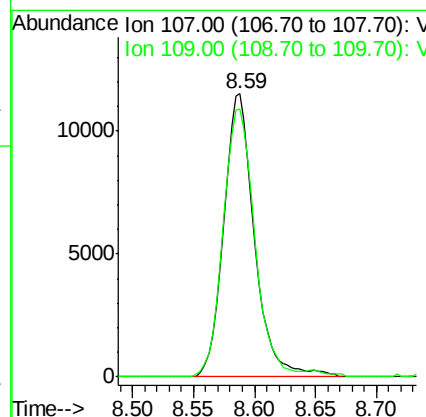
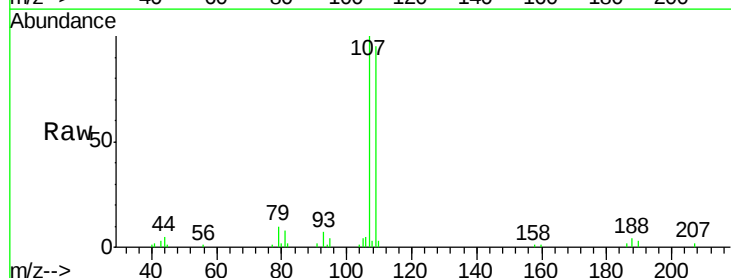
Manual Integrations  
 APPROVED

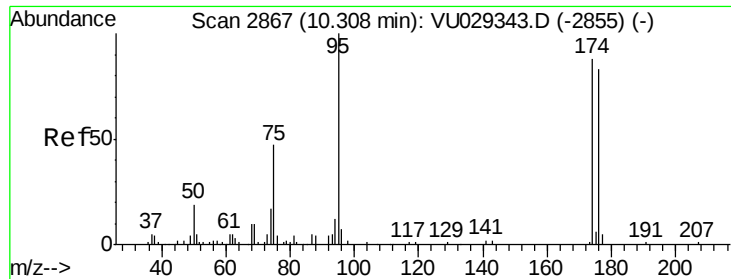
MMDadoda  
 2/18/2019 12:16:01 PM



#56  
 1,2-Dibromoethane  
 Concen: 1.877 ug/l  
 RT: 8.59 min Scan# 2332  
 Delta R.T. 0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 97.4  | 0.0   | 189.6 |





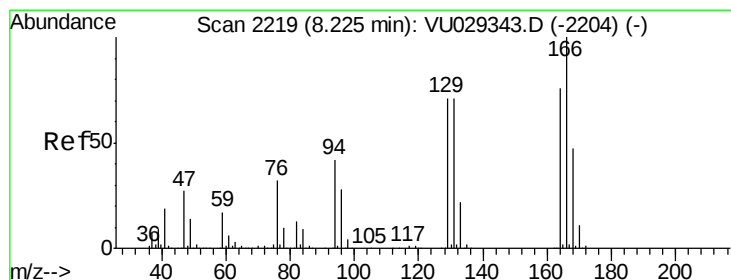
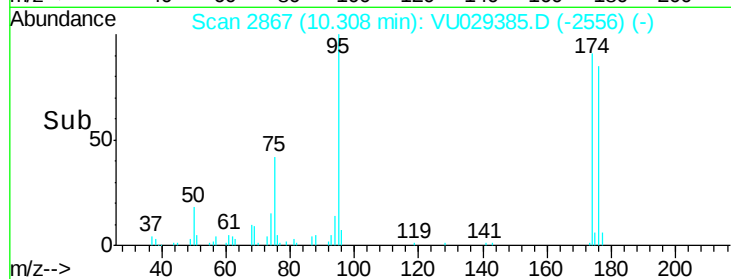
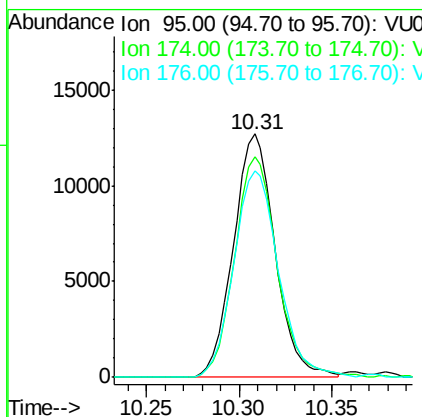
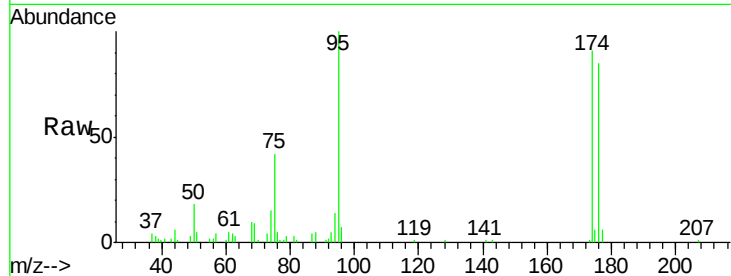
#57  
4-Bromofluorobenzene  
Concen: 1.877 ug/l  
RT: 10.31 min Scan# 2867  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 92.6  | 64.2  | 96.2  |
| 176     | 90.5  | 62.3  | 93.5  |

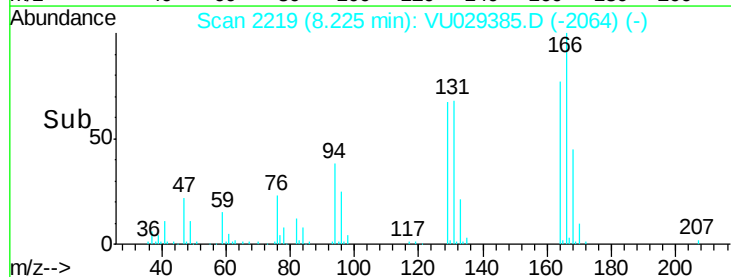
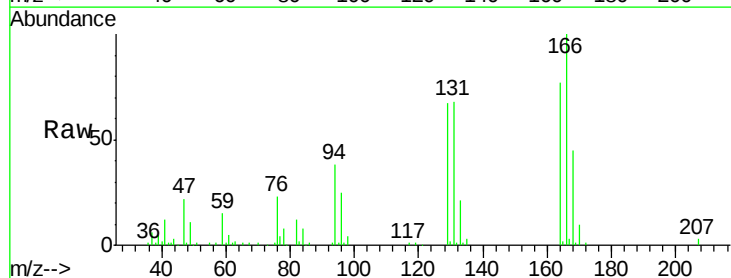
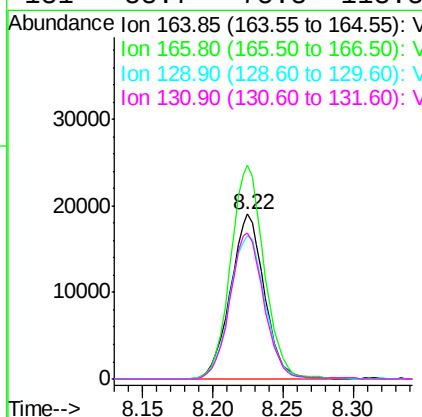
Manual Integrations  
APPROVED

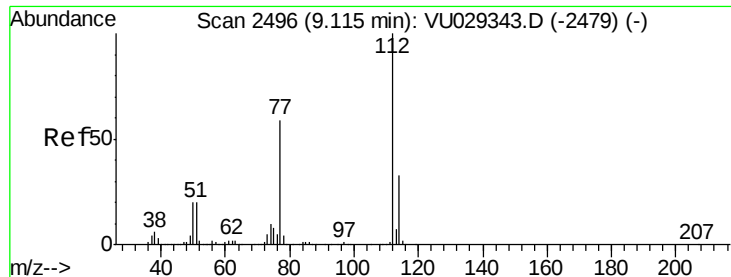
MMDadoda  
2/18/2019 12:16:01 PM



#58  
Tetrachloroethene  
Concen: 2.077 ug/l  
RT: 8.22 min Scan# 2219  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 129.7 | 106.6 | 159.8 |
| 129     | 87.2  | 79.9  | 119.9 |
| 131     | 88.7  | 75.8  | 113.8 |





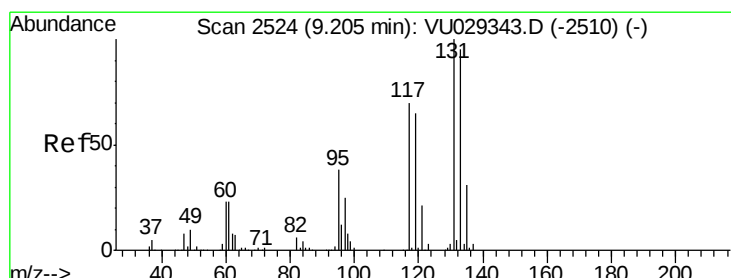
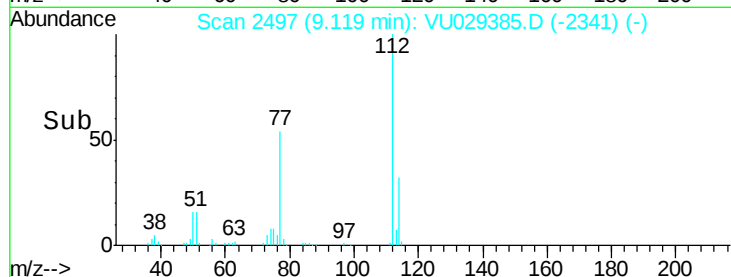
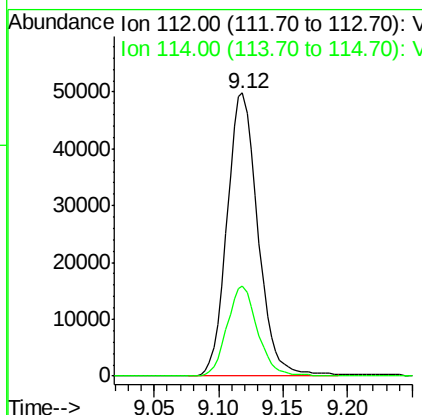
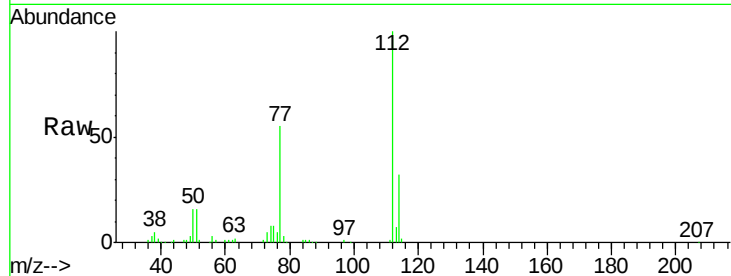
#59  
Chlorobenzene  
Concen: 1.995 ug/l  
RT: 9.12 min Scan# 2497  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 82991 |       |       |
| 114     | 31.9  | 26.2  | 39.4  |       |

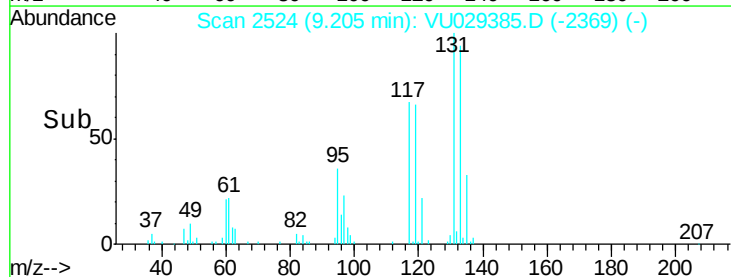
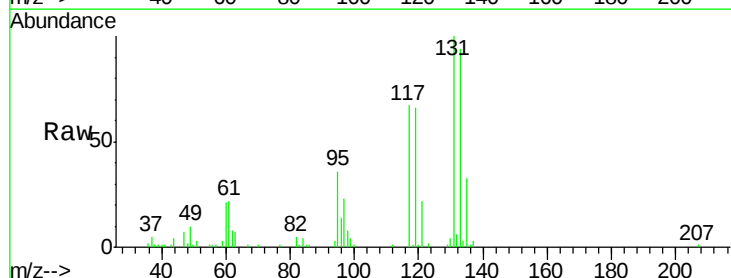
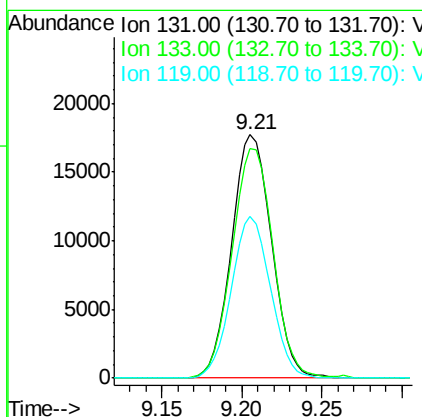
Manual Integrations  
APPROVED

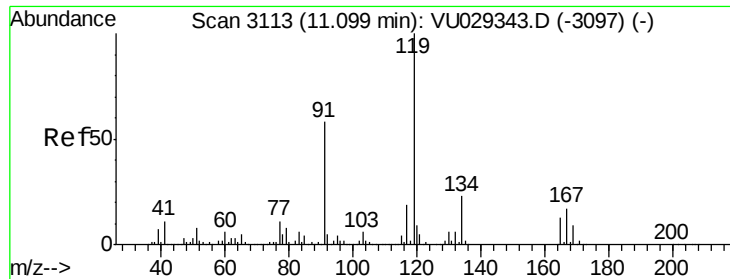
MMDadoda  
2/18/2019 12:16:01 PM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 1.969 ug/l  
RT: 9.21 min Scan# 2524  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 131     | 100   | 30271 |       |       |
| 133     | 96.4  | 77.3  | 115.9 |       |
| 119     | 64.7  | 48.9  | 73.3  |       |





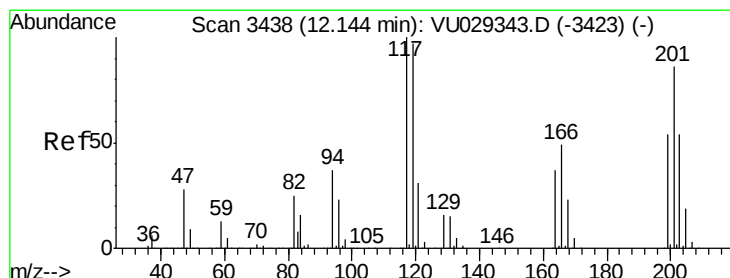
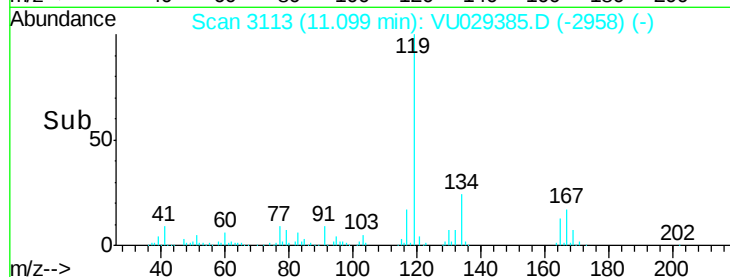
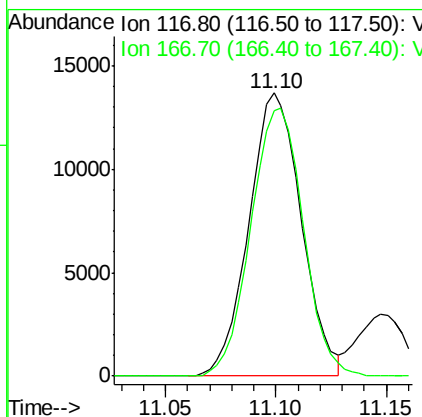
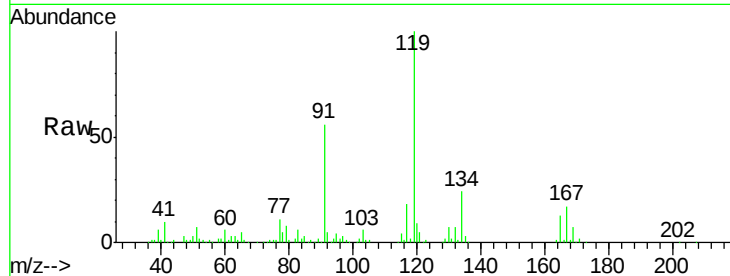
#61  
 Pentachloroethane  
 Concen: 1.890 ug/l  
 RT: 11.10 min Scan# 3113  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0208WBS02

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   | 22519 |       |       |
| 167     | 94.7  | 65.9  | 98.9  |       |

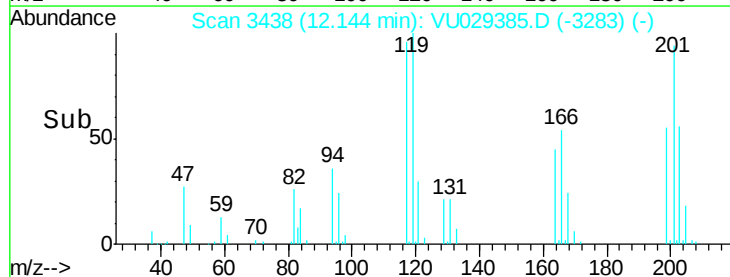
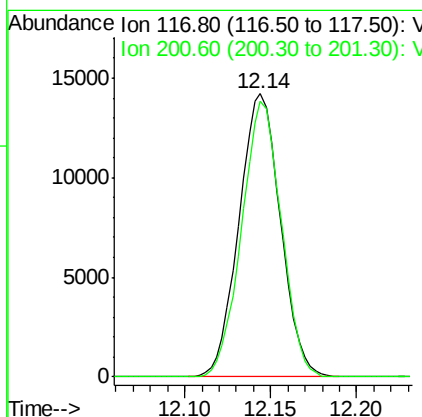
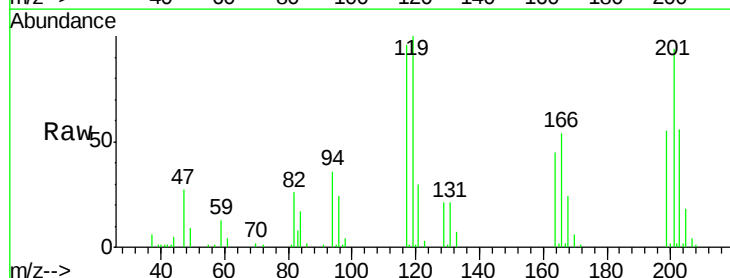
Manual Integrations  
 APPROVED

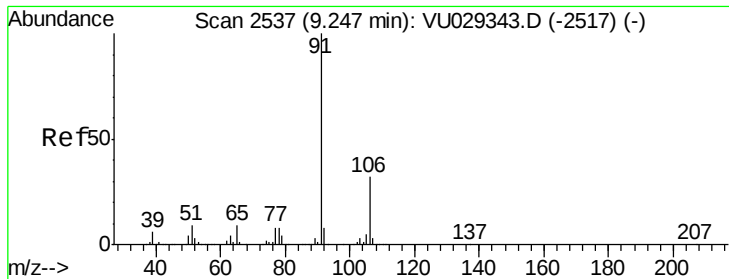
MMDadoda  
 2/18/2019 12:16:01 PM



#62  
 Hexachloroethane  
 Concen: 1.828 ug/l  
 RT: 12.14 min Scan# 3438  
 Delta R.T. -0.00 min  
 Lab File: VU029385.D  
 Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   | 23773 |       |       |
| 201     | 92.8  | 68.2  | 102.2 |       |





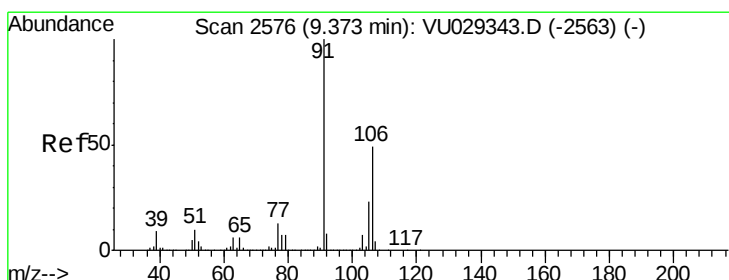
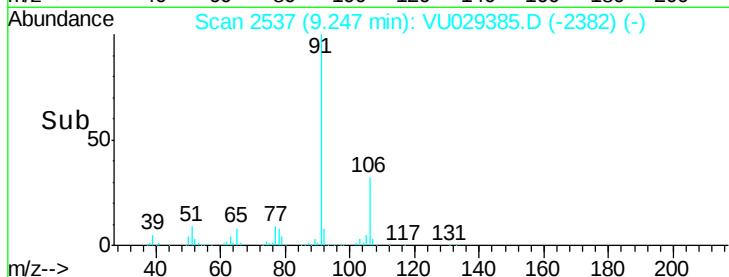
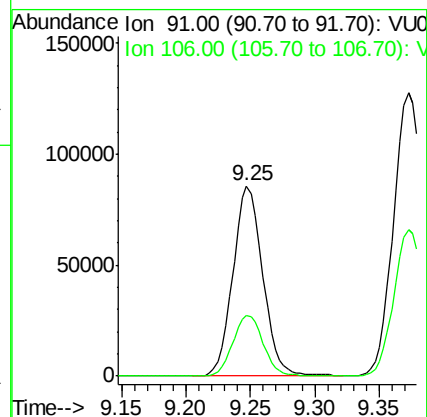
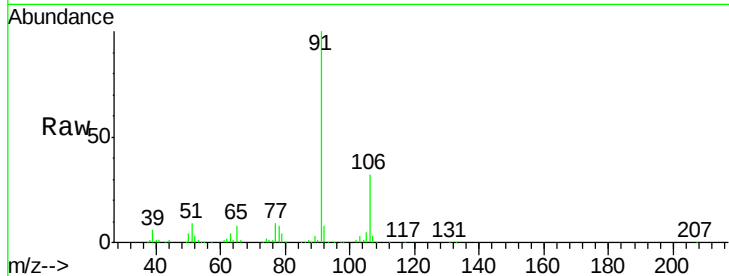
#63  
Ethyl Benzene  
Concen: 1.909 ug/l  
RT: 9.25 min Scan# 2537  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

Tot Ion: 91 Resp: 137909  
Ion Ratio Lower Upper  
91 100  
106 31.6 23.8 35.6

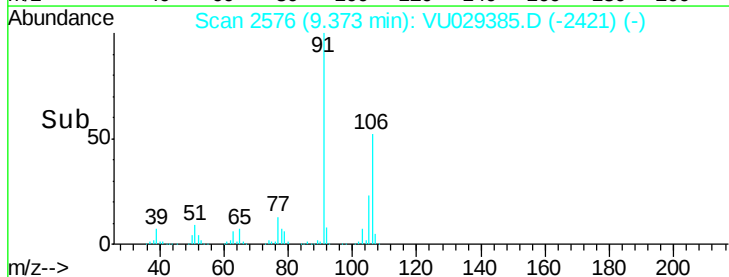
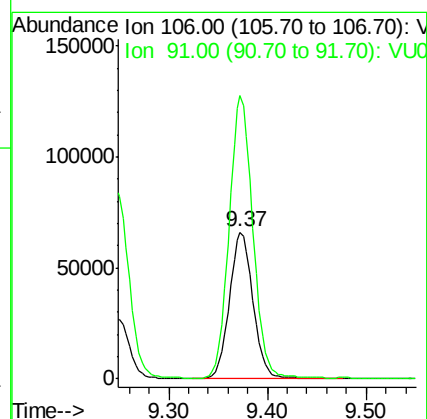
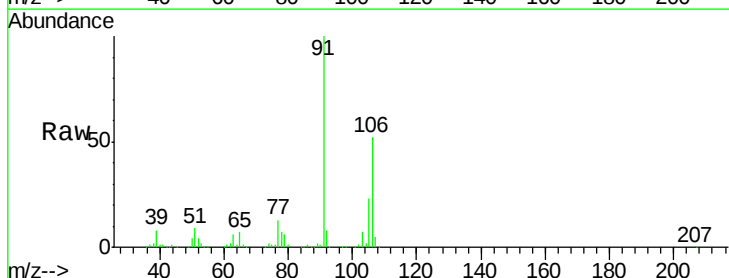
Manual Integrations  
APPROVED

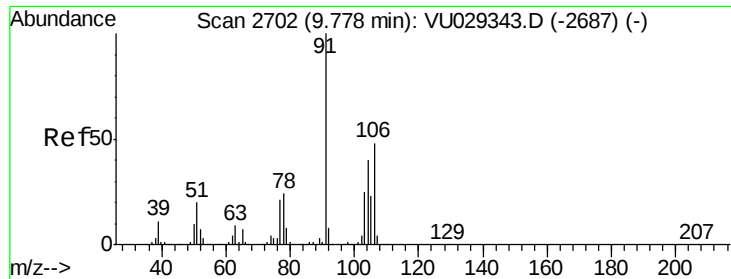
MMDadoda  
2/18/2019 12:16:01 PM



#64  
m/p-Xylenes  
Concen: 3.975 ug/l  
RT: 9.37 min Scan# 2576  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Tgt Ion: 106 Resp: 111604  
Ion Ratio Lower Upper  
106 100  
91 191.6 174.6 261.8





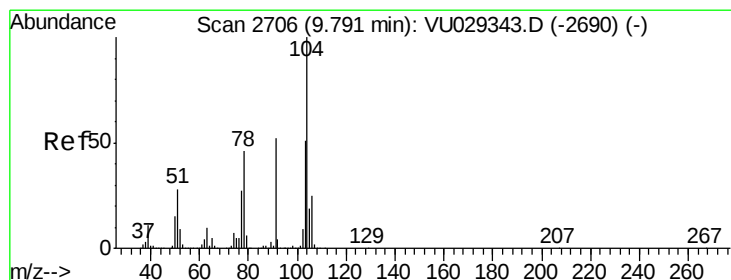
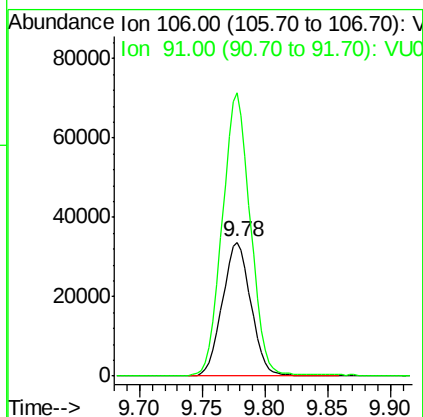
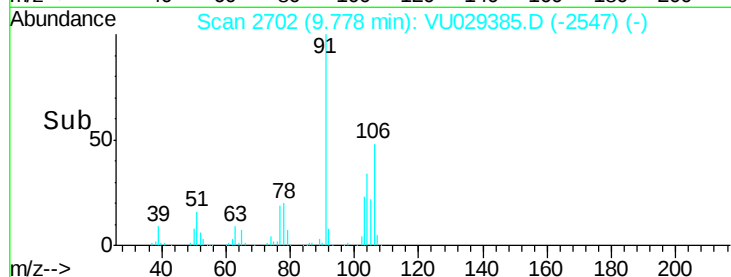
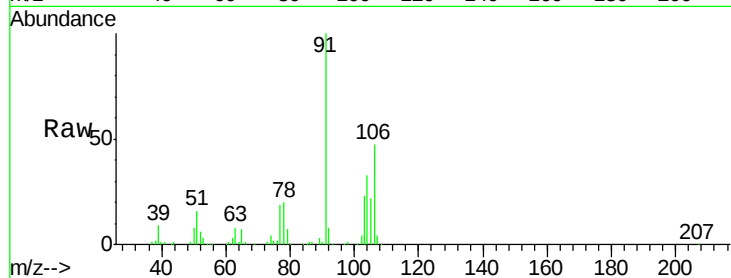
#65  
o-Xylene  
Concen: 1.949 ug/l  
RT: 9.78 min Scan# 2702  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 208.0 | 114.5 | 343.4 |

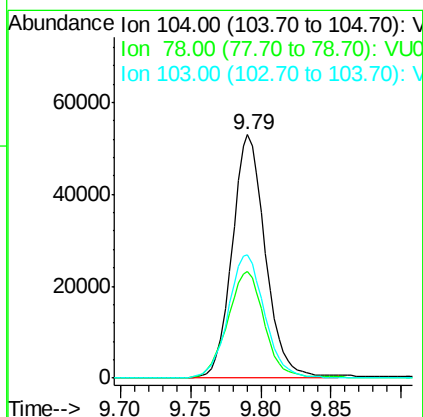
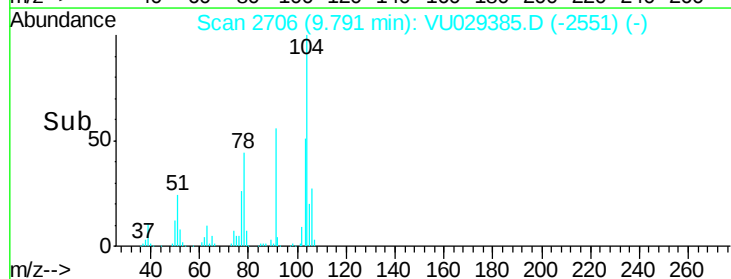
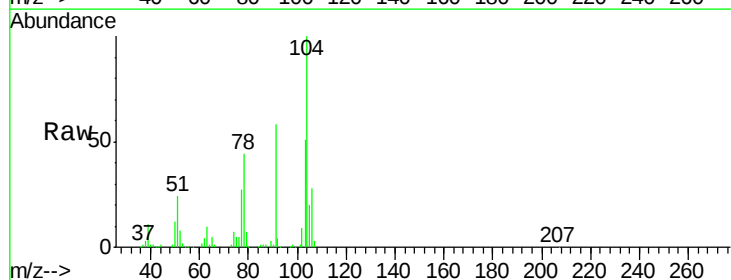
Manual Integrations  
APPROVED

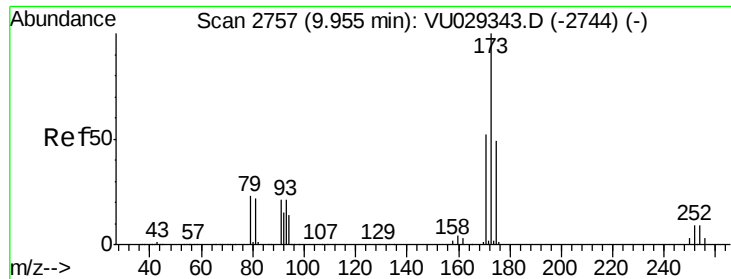
MMDadoda  
2/18/2019 12:16:01 PM



#66  
Styrene  
Concen: 1.909 ug/l  
RT: 9.79 min Scan# 2706  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 47.9  | 46.5  | 69.7  |
| 103     | 56.0  | 44.7  | 67.1  |





#67

Bromoform

Concen: 1.944 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

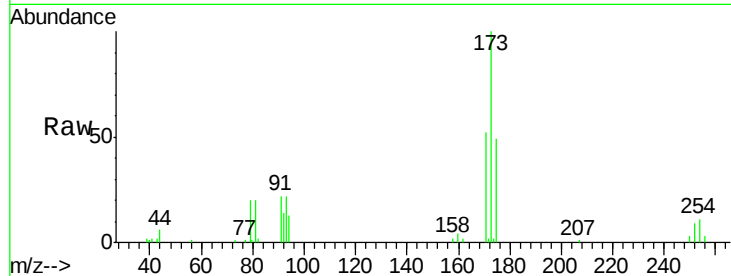
ClientSampleId :

VU0208WBS02

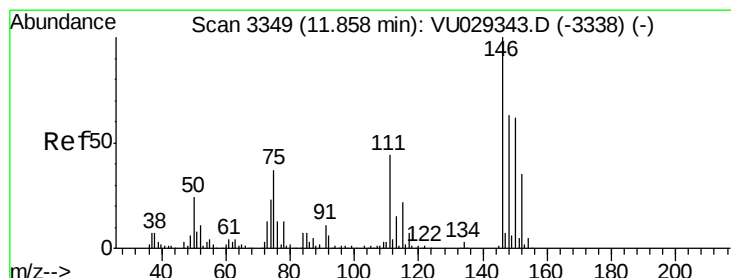
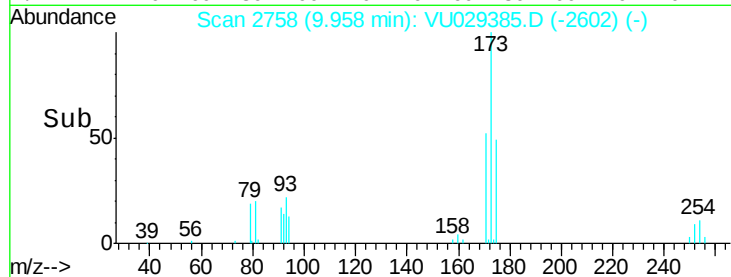
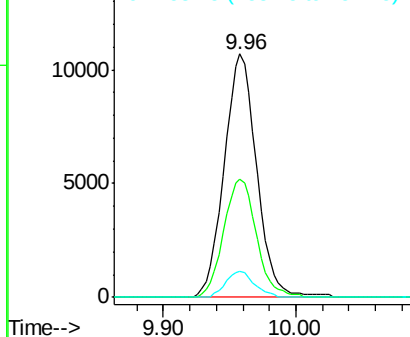
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 18204 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 49.1  | 38.9  | 58.3  |
| 254       | 9.5   | 7.4   | 11.2  |

Manual Integrations  
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2/18/2019 12:16:01 PM



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



#68

1,2-Dichlorobenzene-d4

Concen: 1.944 ug/l

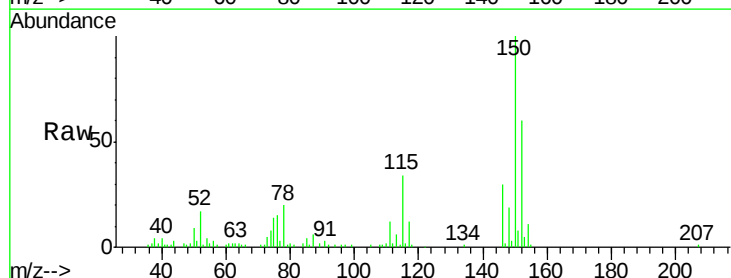
RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

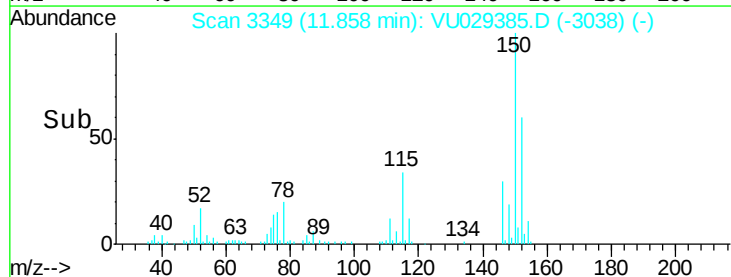
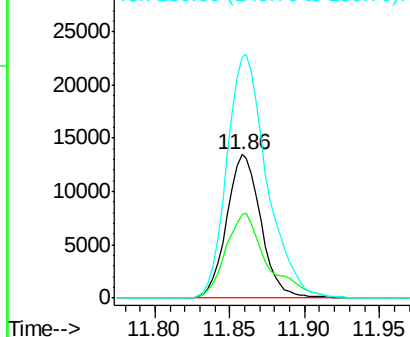
Lab File: VU029385.D

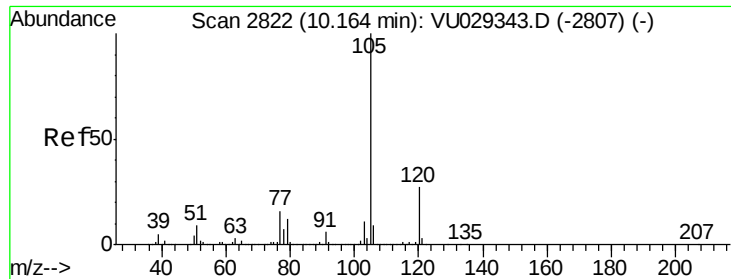
Acq: 08 Feb 2019 19:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 21501 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 71.4  | 0.0   | 133.4 |
| 150       | 197.5 | 0.0   | 670.8 |



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





#69

Isopropylbenzene

Concen: 1.952 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:105 Resp: 143740

Ion Ratio Lower Upper

105 100

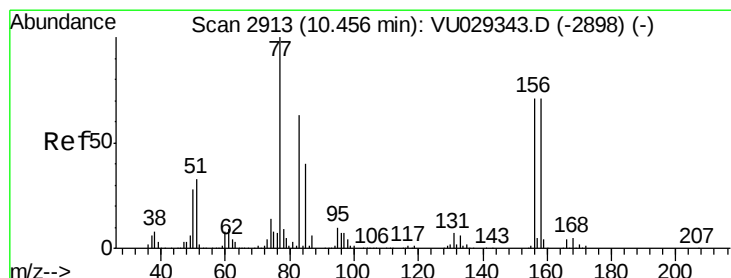
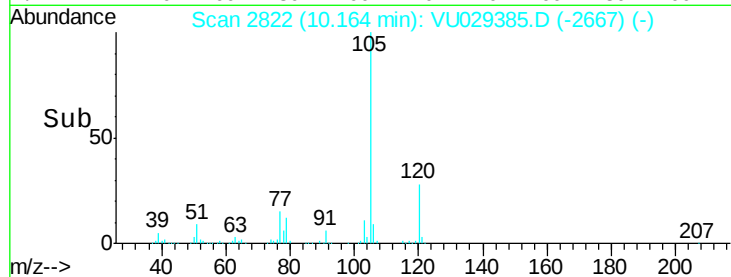
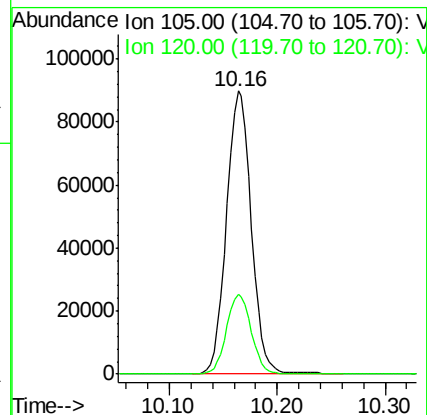
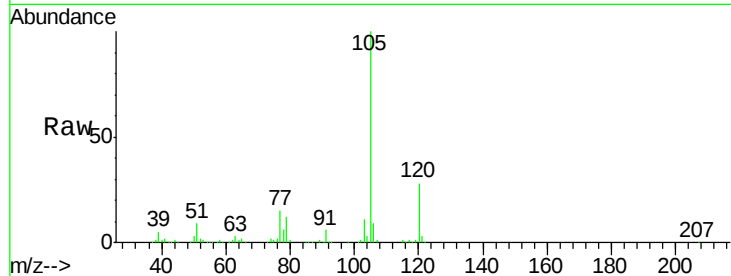
120 28.2 12.6 37.6

Manual Integrations

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2/18/2019 12:16:01 PM



#70

1,1,2,2-Tetrachloroethane

Concen: 1.927 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

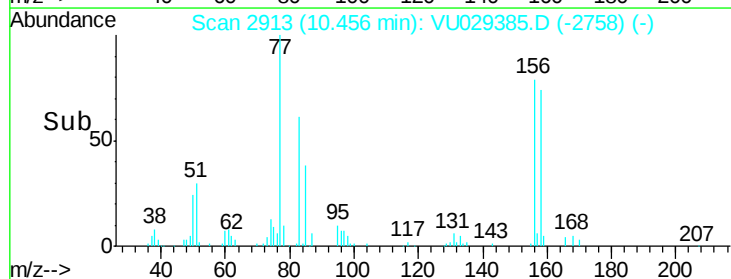
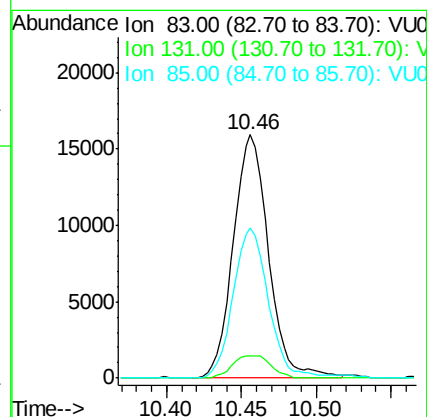
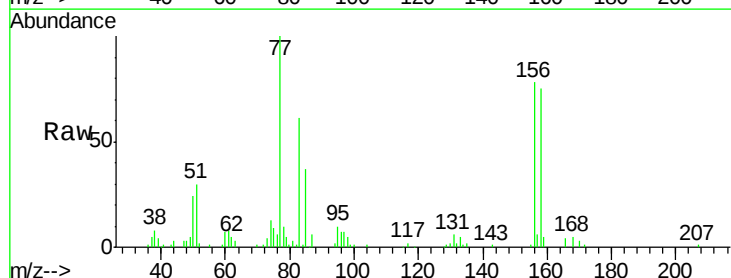
Tgt Ion: 83 Resp: 26158

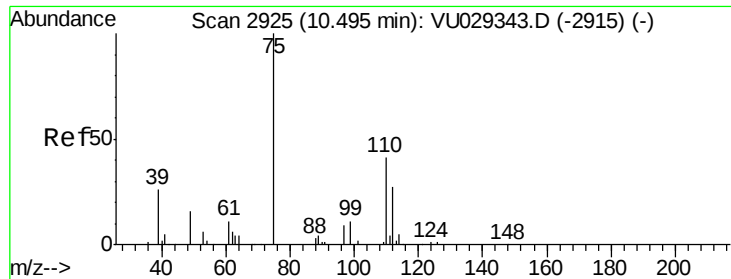
Ion Ratio Lower Upper

83 100

131 10.1 8.1 12.1

85 61.2 50.3 75.5





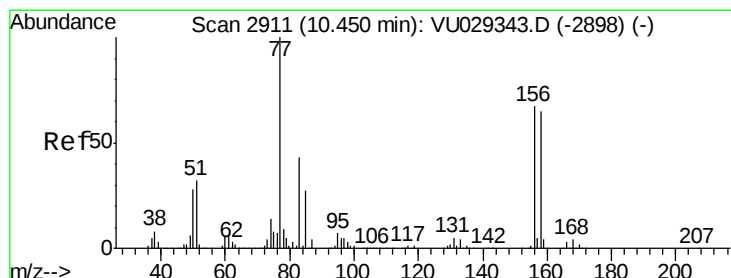
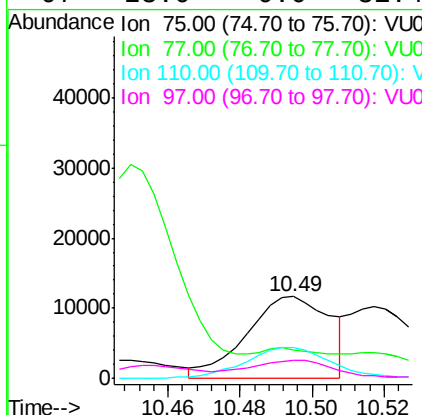
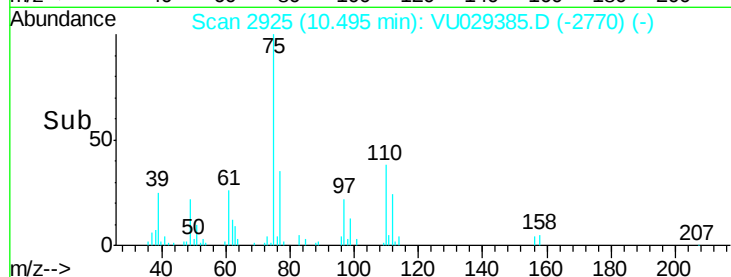
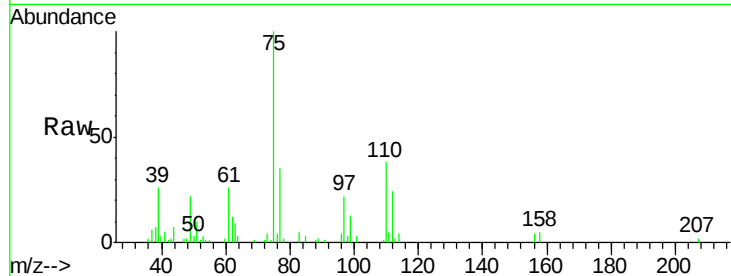
#71  
1,2,3-Trichloropropane  
Concen: 2.015 ug/l m  
RT: 10.49 min Scan# 2925  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ion | Ratio | Resp  | Lower | Upper |
|---------|-----|-------|-------|-------|-------|
| 75      | 75  | 100   | 18785 |       |       |
| 77      | 77  | 0.0   | 0.0   | 0.0   | 0.0   |
| 110     | 110 | 38.9  | 0.0   | 0.0   | 63.6  |
| 97      | 97  | 23.0  | 0.0   | 0.0   | 31.4  |

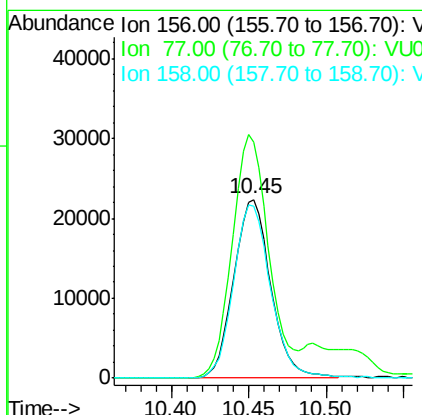
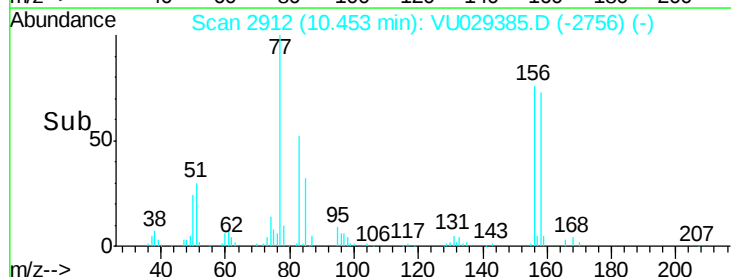
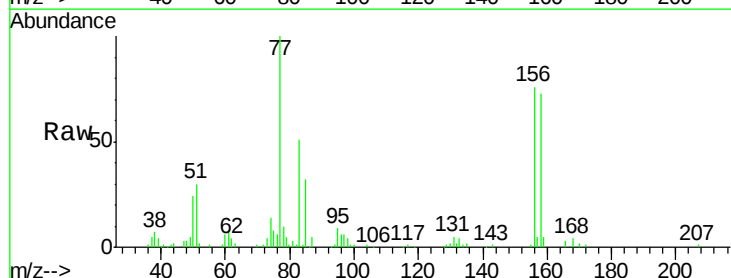
Manual Integrations  
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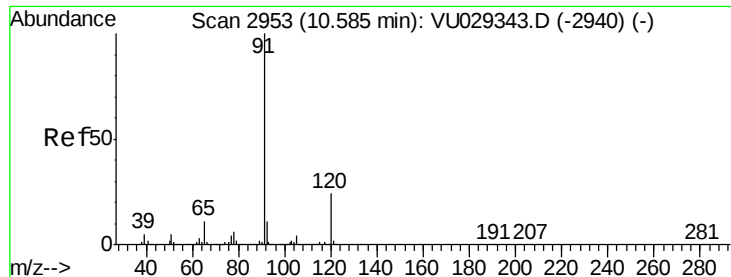
MMDadoda  
2/18/2019 12:16:01 PM



#72  
Bromobenzene  
Concen: 2.090 ug/l  
RT: 10.45 min Scan# 2912  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ion | Ratio | Resp  | Lower | Upper |
|---------|-----|-------|-------|-------|-------|
| 156     | 156 | 100   | 37291 |       |       |
| 77      | 77  | 135.1 | 0.0   | 0.0   | 343.8 |
| 158     | 158 | 97.8  | 0.0   | 0.0   | 195.0 |





#73

n-propylbenzene

Concen: 2.007 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:120 Resp: 41157

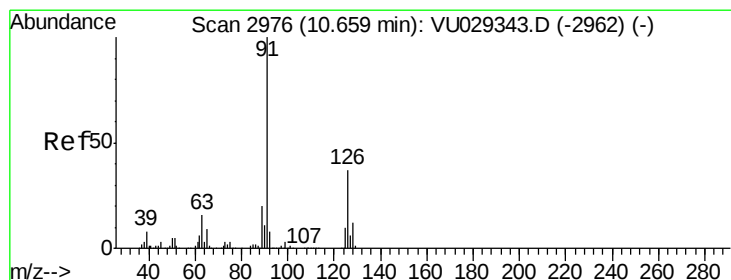
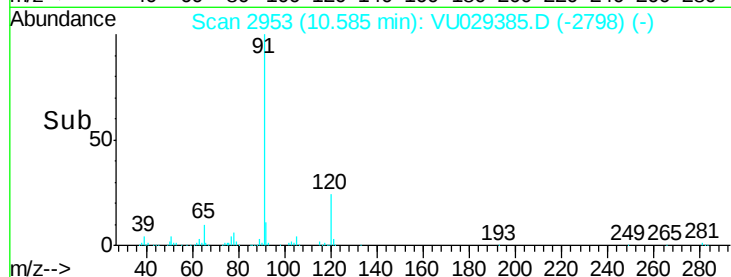
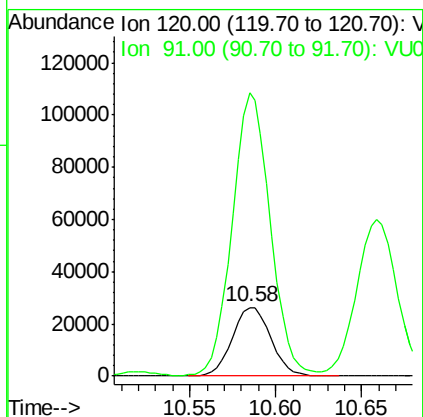
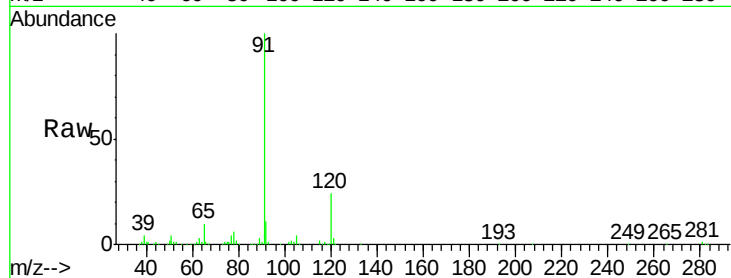
Ion Ratio Lower Upper

120 100

91 401.9 370.0 555.0

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#74

2-Chlorotoluene

Concen: 2.031 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. -0.00 min

Lab File: VU029385.D

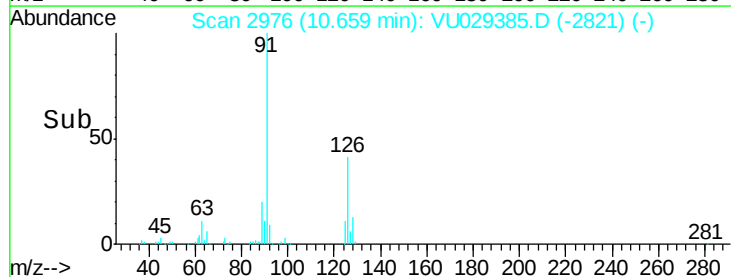
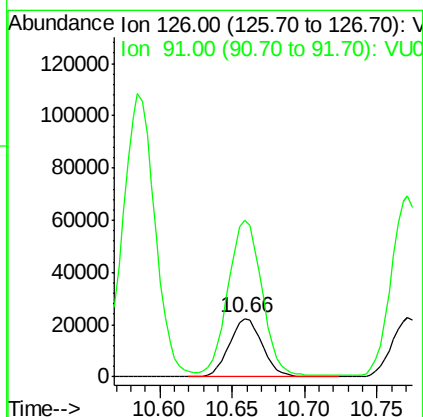
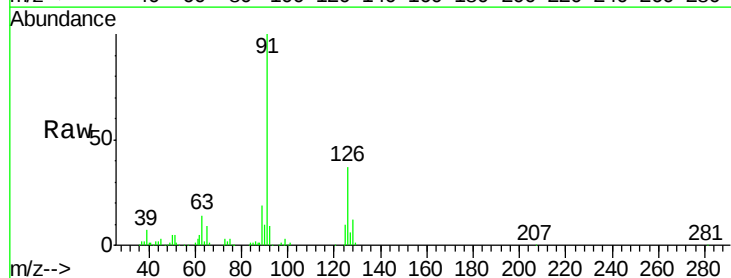
Acq: 08 Feb 2019 19:31

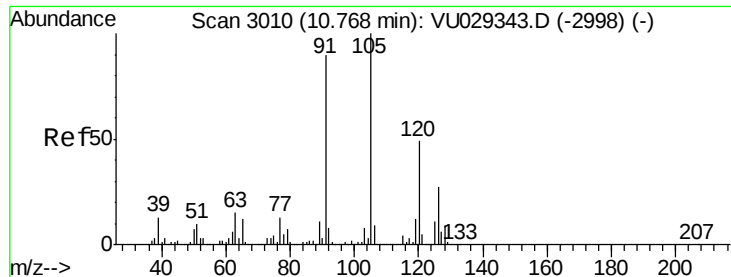
Tgt Ion:126 Resp: 35462

Ion Ratio Lower Upper

126 100

91 271.8 0.0 643.0





#75

1,3,5-Trimethylbenzene

Concen: 1.879 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:105 Resp: 119256

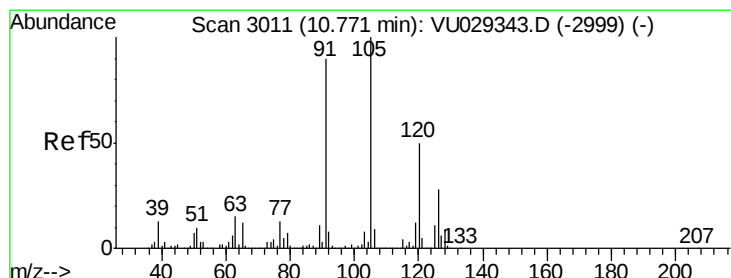
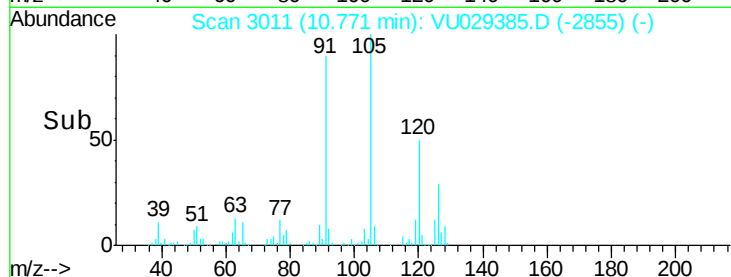
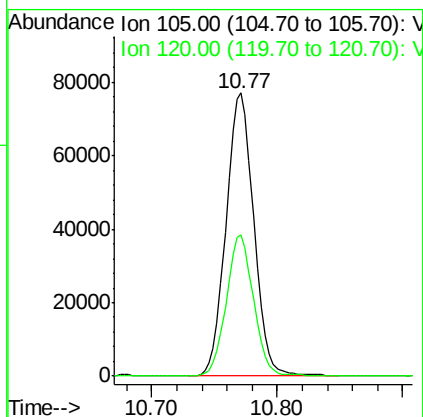
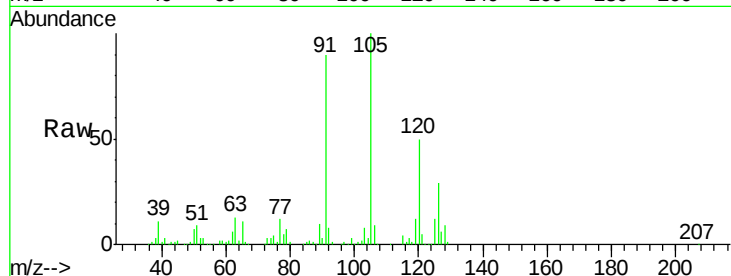
Ion Ratio Lower Upper

105 100

120 49.1 37.3 55.9

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#76

4-Chlorotoluene

Concen: 1.990 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. -0.00 min

Lab File: VU029385.D

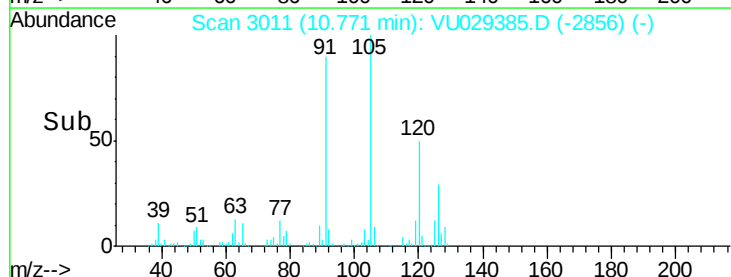
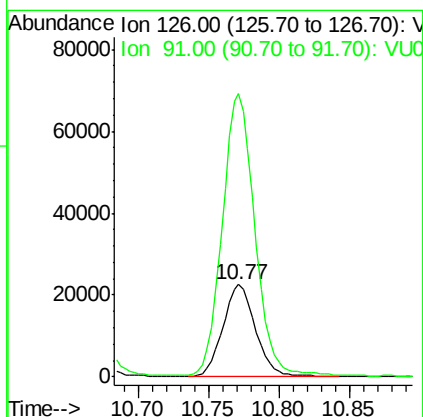
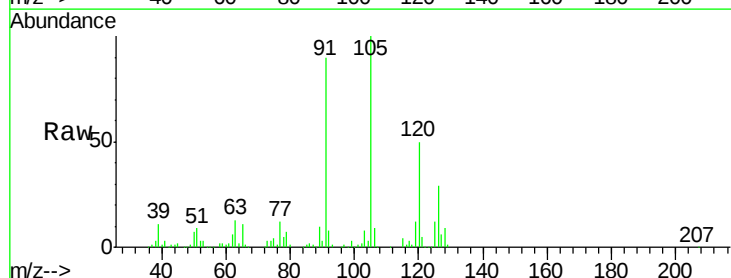
Acq: 08 Feb 2019 19:31

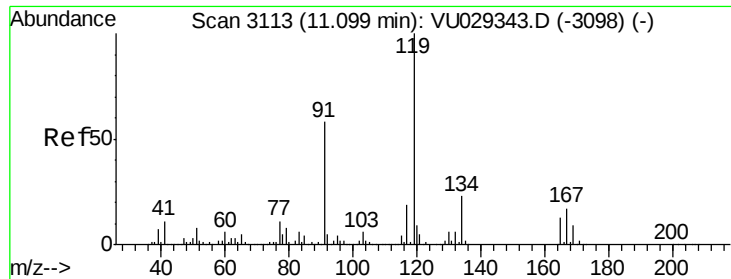
Tgt Ion:126 Resp: 36063

Ion Ratio Lower Upper

126 100

91 307.7 0.0 727.4





#77

tert-Butylbenzene

Concen: 1.931 ug/l

RT: 11.10 min Scan# 3113

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

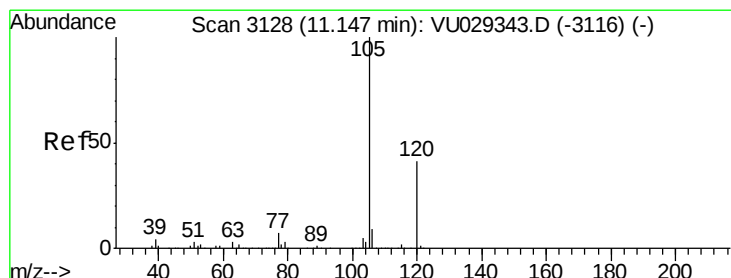
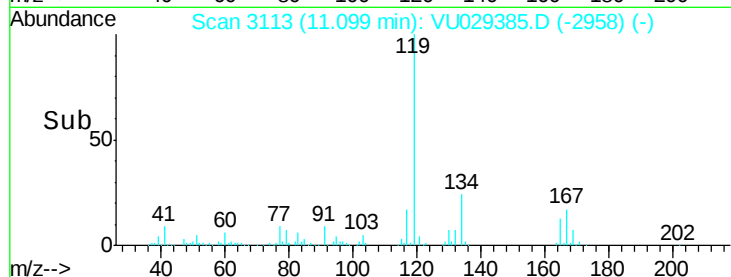
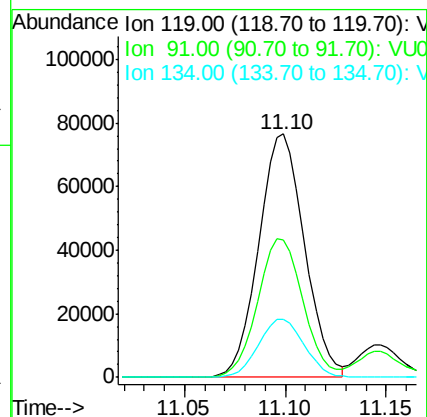
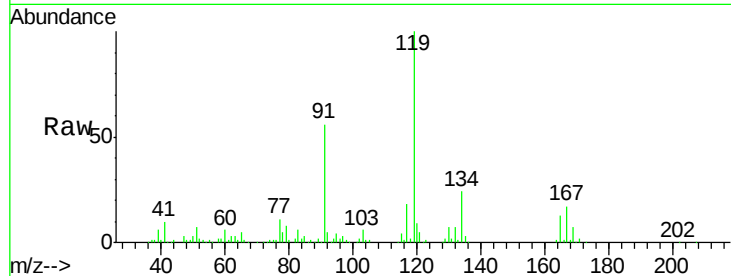
ClientSampleId :

VU0208WBS02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 121149 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 91        | 56.5  | 32.2  | 96.6   |
| 134       | 23.9  | 17.6  | 26.4   |

Manual Integrations  
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#78

1,2,4-Trimethylbenzene

Concen: 1.907 ug/l

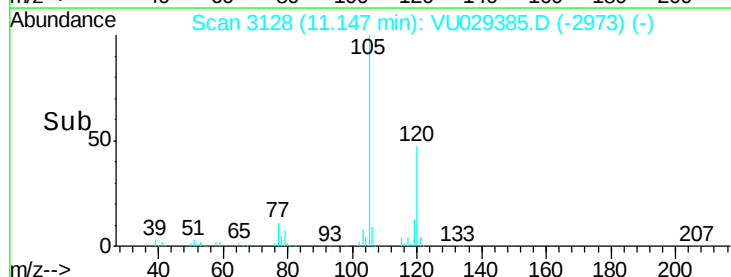
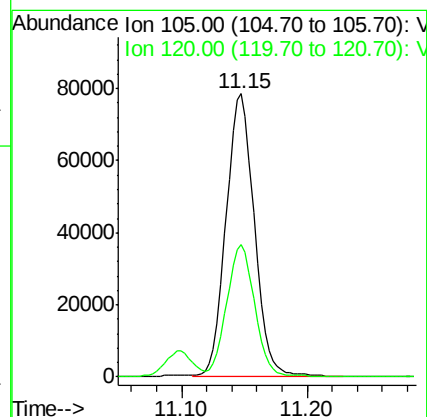
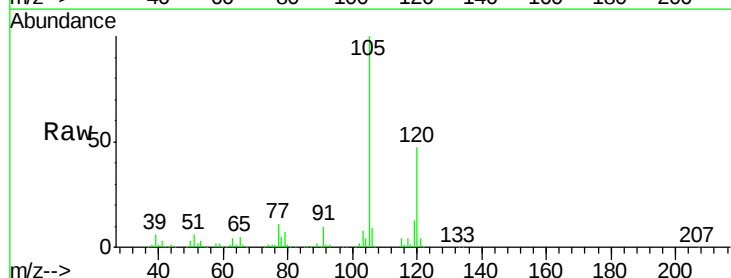
RT: 11.15 min Scan# 3128

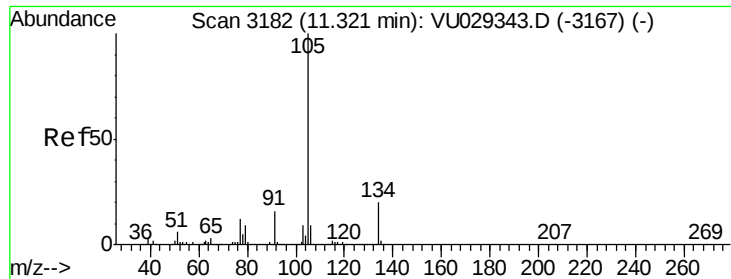
Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 122538 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 46.7  | 21.4  | 64.3   |





#79

sec-Butylbenzene

Concen: 1.935 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:105 Resp: 158876

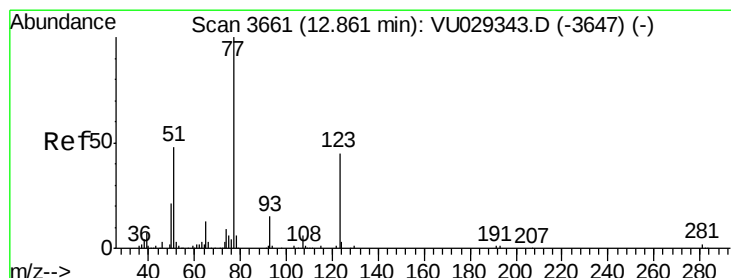
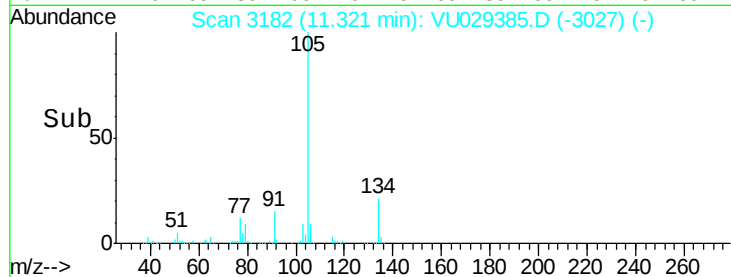
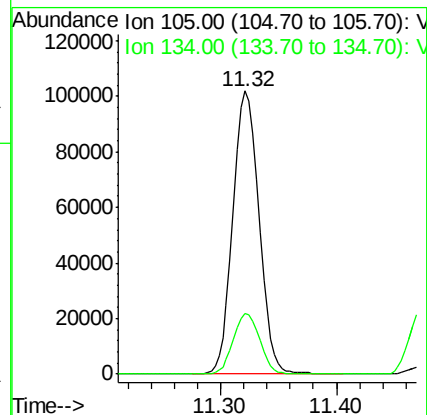
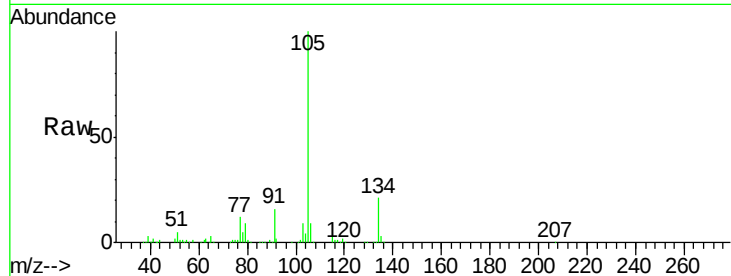
Ion Ratio Lower Upper

105 100

134 21.7 15.0 22.6

Manual Integrations  
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#80

Nitrobenzene

Concen: 5.744 ug/l m

RT: 12.87 min Scan# 3665

Delta R.T. 0.01 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

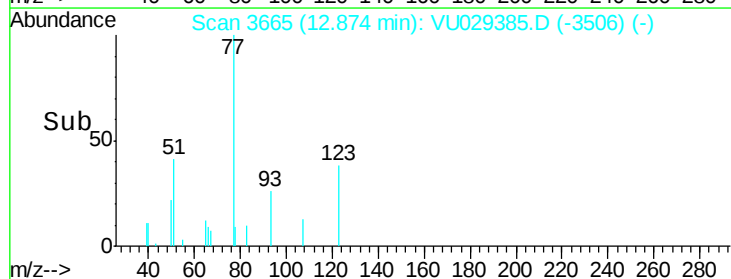
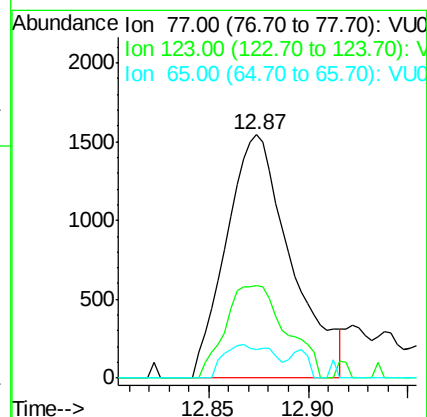
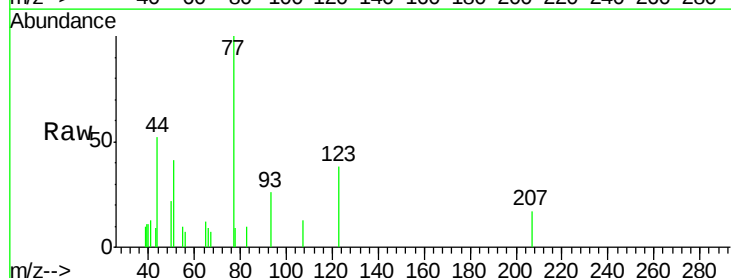
Tgt Ion: 77 Resp: 3474

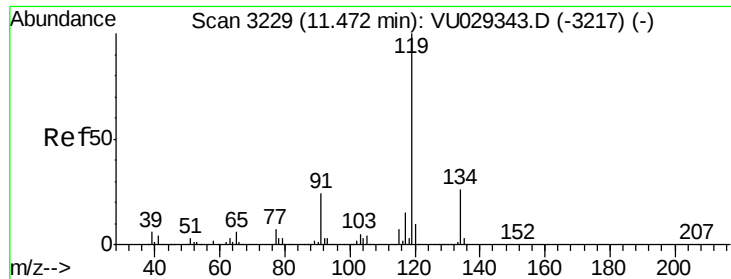
Ion Ratio Lower Upper

77 100

123 1.2 17.5 61.9#

65 0.6 10.8 13.8#





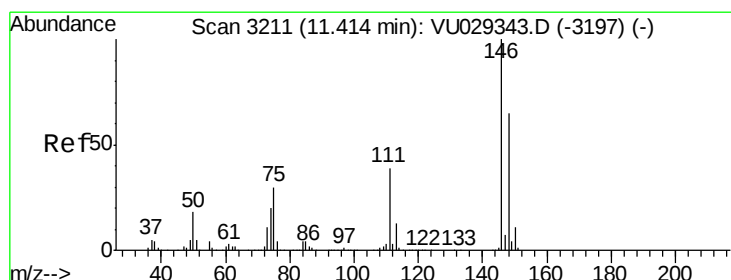
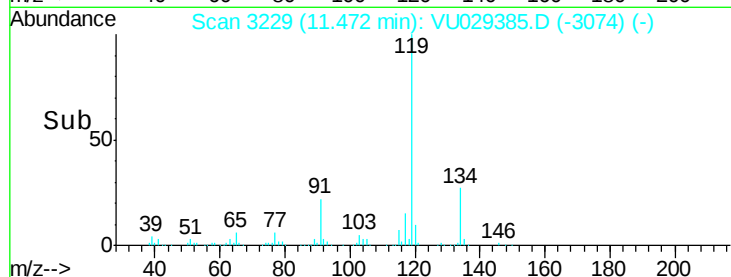
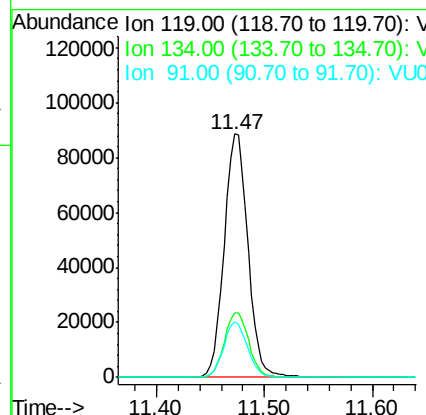
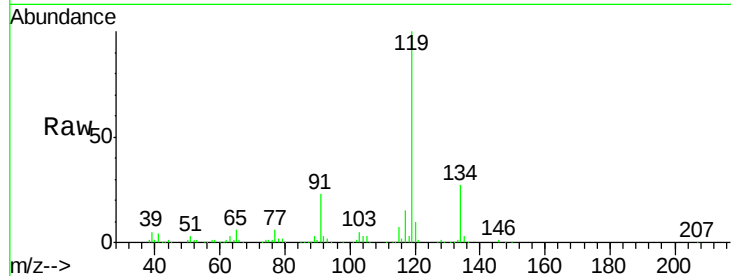
#81  
p-Isopropyltoluene  
Concen: 1.949 ug/l  
RT: 11.47 min Scan# 3229  
Delta R.T. -0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.3  | 19.8  | 29.6  |
| 91      | 22.2  | 21.5  | 32.3  |

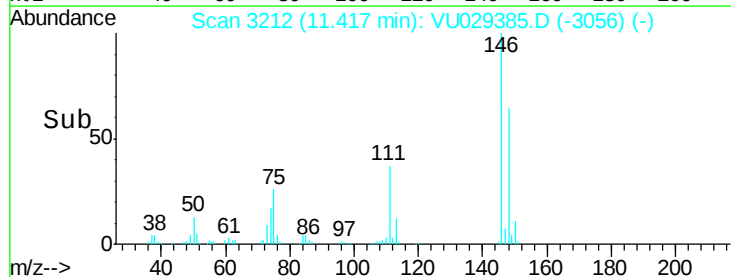
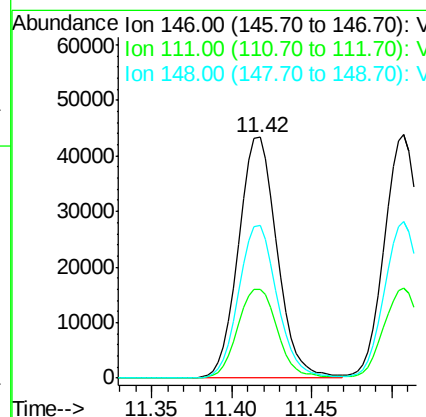
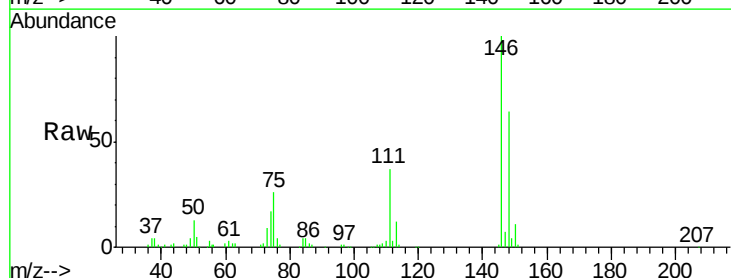
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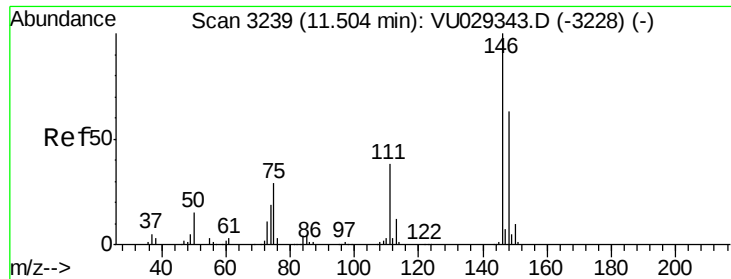
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#82  
1,3-Dichlorobenzene  
Concen: 2.036 ug/l  
RT: 11.42 min Scan# 3212  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.1  | 34.1  | 51.1  |
| 148     | 63.3  | 52.3  | 78.5  |





#83

1,4-Dichlorobenzene

Concen: 2.031 ug/l

RT: 11.51 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:146 Resp: 70834

Ion Ratio Lower Upper

146 100

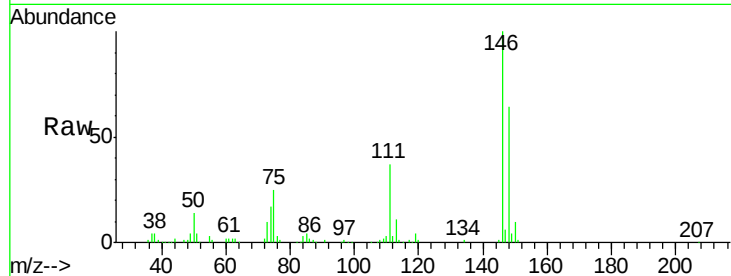
111 37.7 32.9 49.3

148 65.1 51.8 77.6

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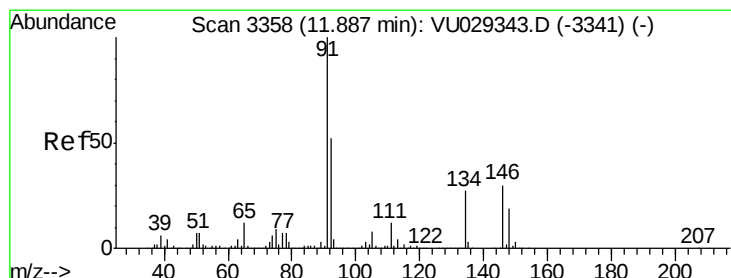
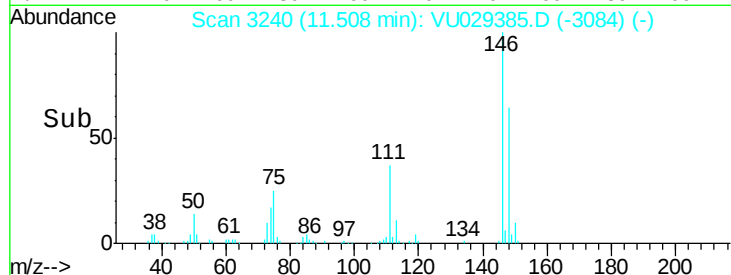
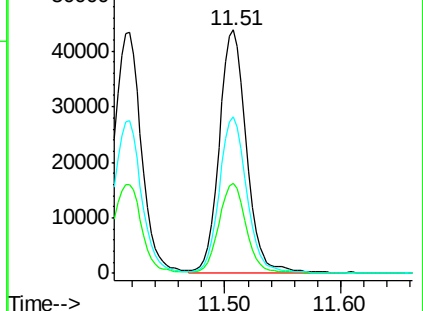
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

n-Butylbenzene

Concen: 1.875 ug/l

RT: 11.89 min Scan# 3358

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

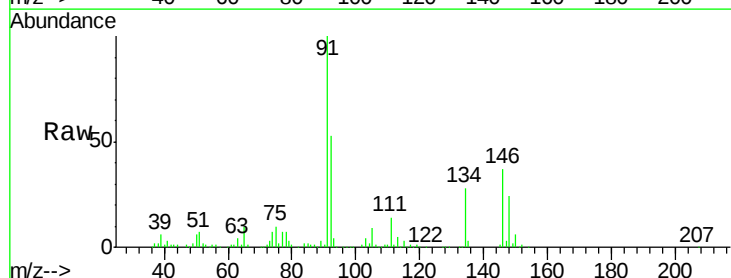
Tgt Ion: 91 Resp: 119734

Ion Ratio Lower Upper

91 100

92 52.7 41.0 61.6

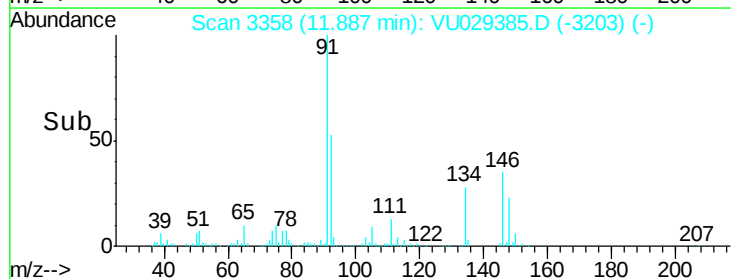
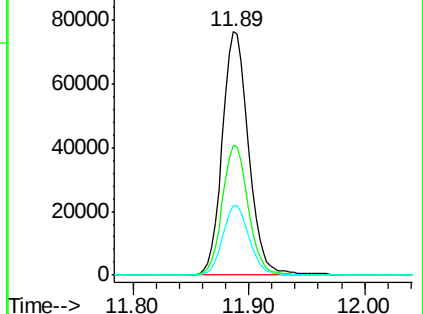
134 28.7 19.1 28.7#

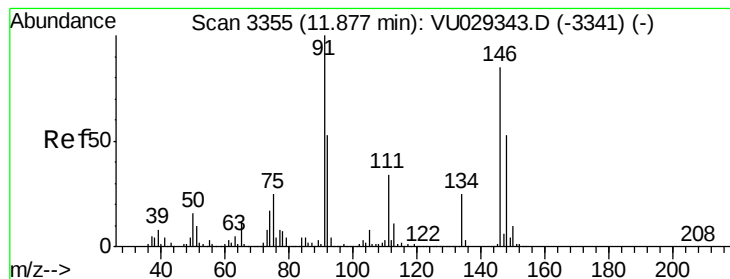


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V





#85

1,2-Dichlorobenzene

Concen: 2.055 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

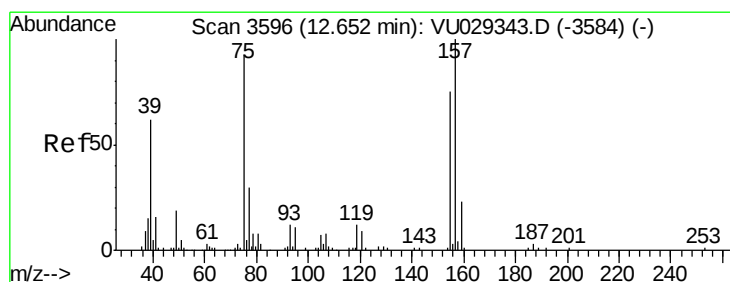
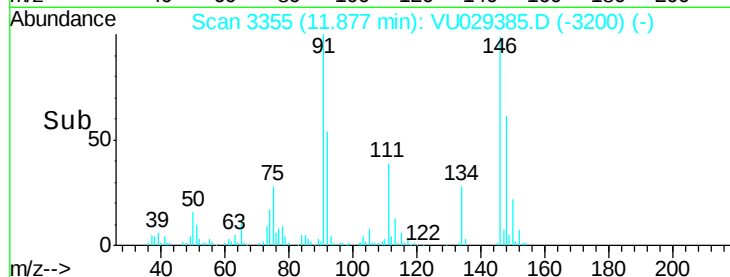
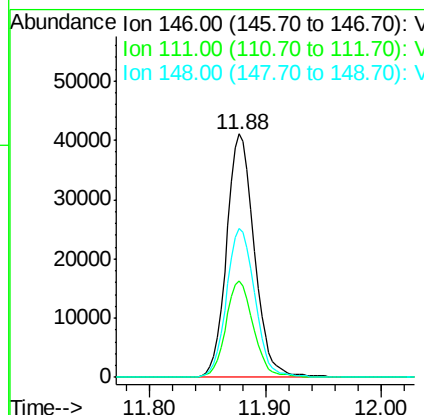
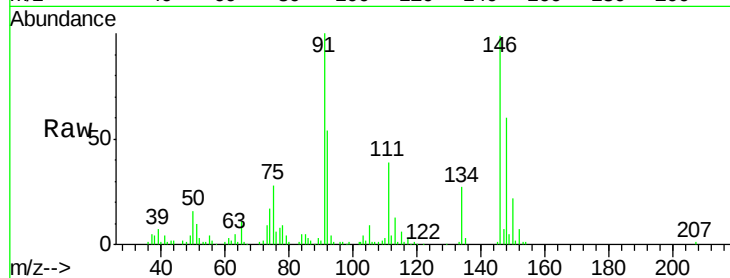
ClientSampleId :

VU0208WBS02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 68048 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 39.6  | 21.9  | 65.8  |
| 148       | 62.6  | 31.8  | 95.3  |

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#86

1,2-Dibromo-3-Chloropropane

Concen: 1.676 ug/l

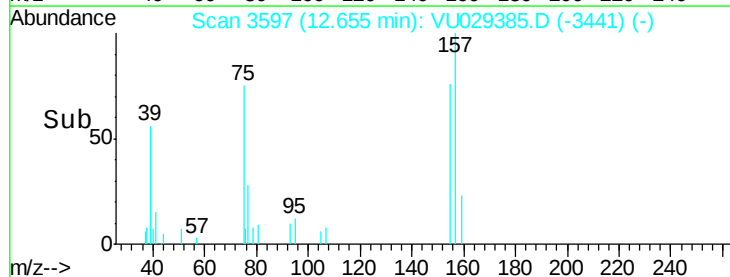
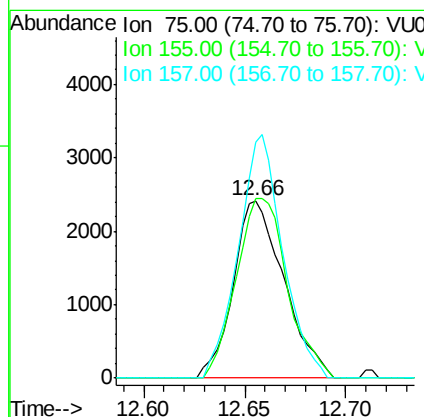
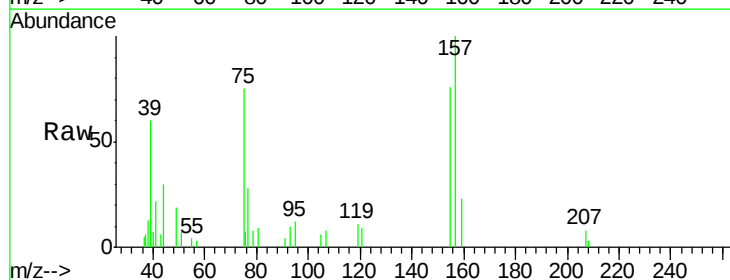
RT: 12.66 min Scan# 3597

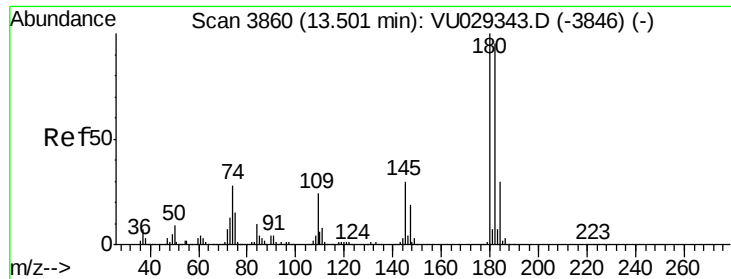
Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 4246   |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 155       | 102.4 | 53.8  | 80.8#  |
| 157       | 120.4 | 69.2  | 103.8# |





#87

1,2,4-Trichlorobenzene

Concen: 2.012 ug/l

RT: 13.50 min Scan# 3861

Delta R.T. 0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

Instrument :

MSVOA\_U

ClientSampleId :

VU0208WBS02

Tot Ion:180 Resp: 46784

Ion Ratio Lower Upper

180 100

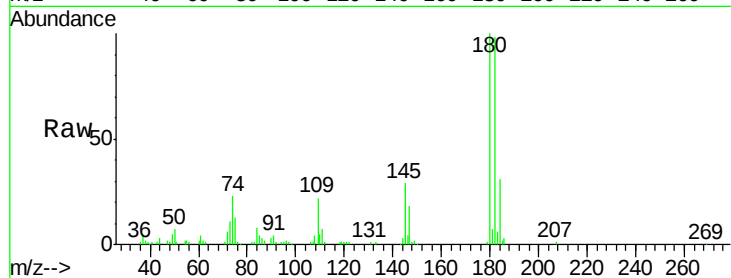
182 101.2 76.6 114.8

145 29.7 24.6 36.8

Manual Integrations  
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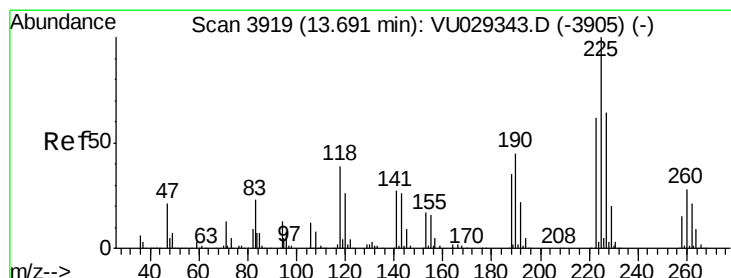
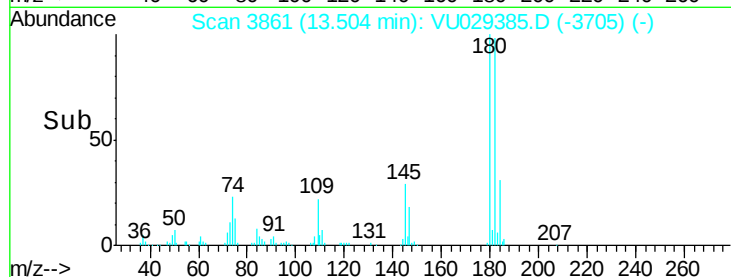
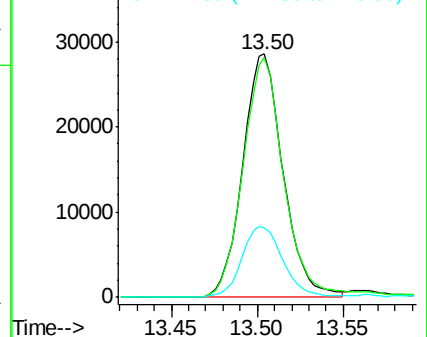
2/18/2019 12:16:01 PM



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 2.202 ug/l

RT: 13.69 min Scan# 3919

Delta R.T. -0.00 min

Lab File: VU029385.D

Acq: 08 Feb 2019 19:31

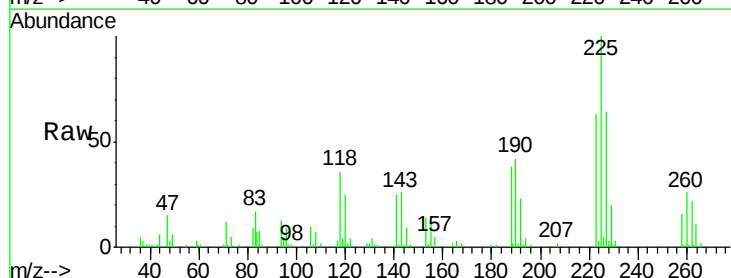
Tgt Ion:225 Resp: 29657

Ion Ratio Lower Upper

225 100

223 63.2 49.5 74.3

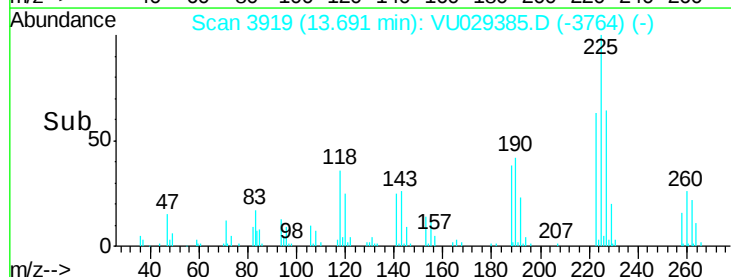
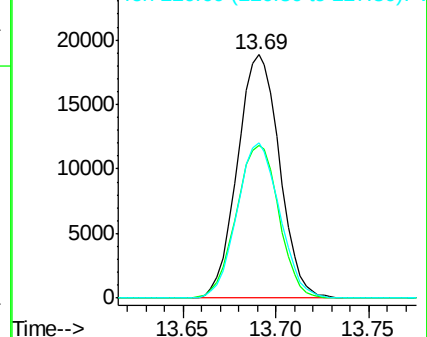
227 64.5 50.4 75.6

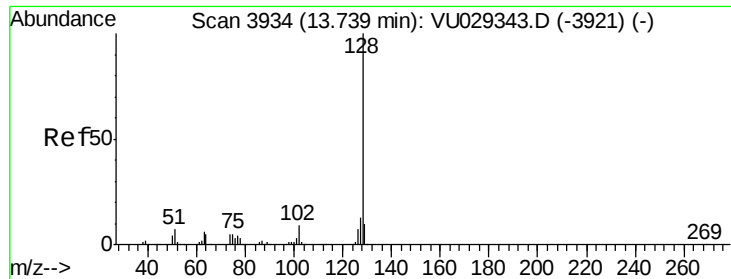


Abundance Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V





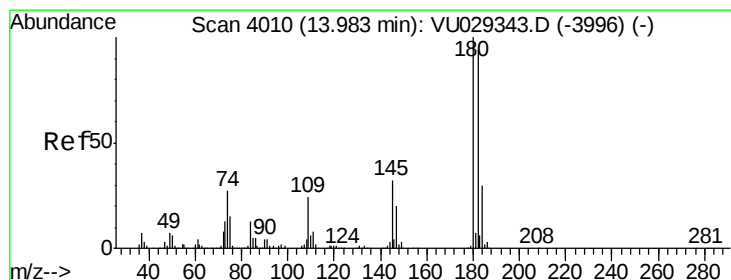
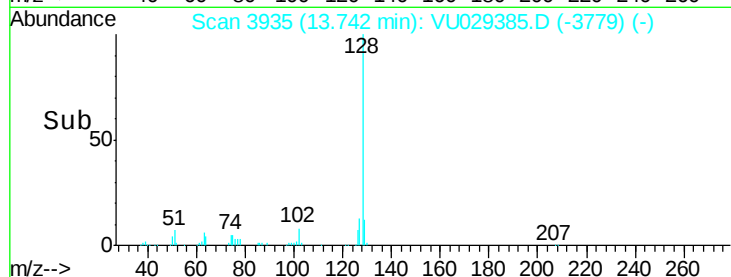
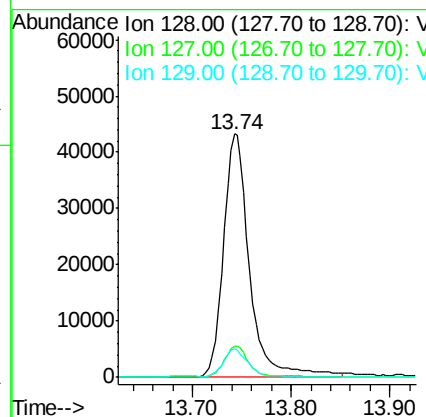
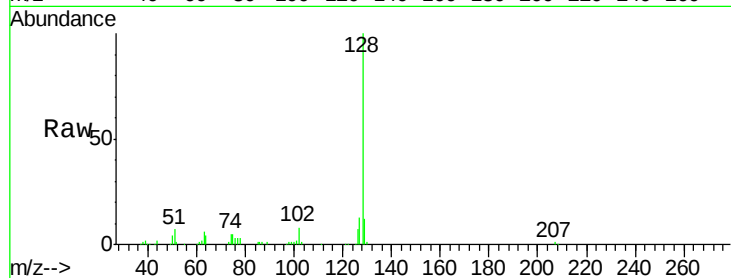
#89  
Naphthalene  
Concen: 2.040 ug/l  
RT: 13.74 min Scan# 3935  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0208WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.1  | 10.7  | 16.1  |
| 129     | 10.8  | 8.2   | 12.4  |

Manual Integrations  
APPROVED

MMDadoda  
2/18/2019 12:16:01 PM



#90  
1,2,3-Trichlorobenzene  
Concen: 2.136 ug/l  
RT: 13.99 min Scan# 4011  
Delta R.T. 0.00 min  
Lab File: VU029385.D  
Acq: 08 Feb 2019 19:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.4  | 78.0  | 117.0 |
| 145     | 29.7  | 26.6  | 39.8  |

