

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091219\  
 Data File : VU034518.D  
 Acq On : 12 Sep 2019 14:15  
 Operator : JC/SP  
 Sample : VU0912WBSD02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 9/16/2019 11:16:37 AM

Quant Time: Sep 13 07:44:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 06 05:10:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 234634   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.87  | 114  | 329342   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 332901   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 226561   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.29   | 65  | 184749   | 52.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.08% |      |
| 35) Dibromofluoromethane  | 4.86   | 113 | 169099   | 55.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.36% |      |
| 50) Toluene-d8            | 7.54   | 98  | 627708   | 54.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.04% |      |
| 62) 4-Bromofluorobenzene  | 10.29  | 95  | 232969   | 52.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.82% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 49750   | 20.274  | ug/l   | 98     |
| 3) Chloromethane              | 1.32 | 50  | 58733   | 22.106  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 61547   | 20.127  | ug/l   | 96     |
| 5) Bromomethane               | 1.62 | 94  | 39178   | 22.942  | ug/l   | 96     |
| 6) Chloroethane               | 1.69 | 64  | 40776   | 22.389  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 89256   | 21.769  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.10 | 74  | 39132   | 21.698  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.28 | 101 | 58645   | 21.596  | ug/l   | 97     |
| 10) Methyl Iodide             | 2.40 | 142 | 40435   | 18.869  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 2.81 | 59  | 91457   | 121.942 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 2.27 | 96  | 53780   | 21.067  | ug/l   | 99     |
| 13) Acrolein                  | 2.19 | 56  | 31750   | 50.367  | ug/l   | 96     |
| 14) Allyl chloride            | 2.58 | 41  | 101304m | 20.757  | ug/l   |        |
| 15) Acrylonitrile             | 2.92 | 53  | 212687  | 113.877 | ug/l   | 97     |
| 16) Acetone                   | 2.31 | 43  | 200075  | 108.905 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.47 | 76  | 102787  | 17.915  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.60 | 43  | 95917   | 21.457  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 2.98 | 73  | 209261  | 22.489  | ug/l   | 100    |
| 20) Methylene Chloride        | 2.69 | 84  | 70825   | 23.324  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 2.97 | 96  | 57266   | 21.287  | ug/l   | 98     |
| 22) Diisopropyl ether         | 3.55 | 45  | 220572  | 23.175  | ug/l   | 94     |
| 23) Vinyl Acetate             | 3.51 | 43  | 863871  | 111.427 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.43 | 63  | 128027  | 22.524  | ug/l   | 99     |
| 25) 2-Butanone                | 4.24 | 43  | 281737  | 114.884 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 4.21 | 77  | 105438  | 23.065  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 4.20 | 96  | 73120   | 22.379  | ug/l   | 99     |
| 28) Bromochloromethane        | 4.52 | 49  | 59677   | 22.827  | ug/l # | 11     |
| 29) Tetrahydrofuran           | 4.62 | 42  | 173612  | 116.341 | ug/l   | 100    |
| 30) Chloroform                | 4.65 | 83  | 130398  | 22.570  | ug/l   | 99     |
| 31) Cyclohexane               | 4.97 | 56  | 83055   | 19.973  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 4.89 | 97  | 103962  | 22.506  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.12 | 75  | 77819   | 21.787  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.36 | 43  | 98541   | 23.335  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 5.11 | 117 | 89907   | 23.575  | ug/l   | 99     |

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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 9/16/2019 11:16:37 AM

Quant Time: Sep 13 07:44:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 06 05:10:13 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.40  | 83   | 79876    | 20.920  | ug/l   | 97       |
| 40) Benzene                    | 5.37  | 78   | 266822   | 23.151  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.52  | 41   | 53569    | 23.815  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 5.38  | 62   | 93765    | 23.433  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 5.53  | 43   | 153255   | 23.264  | ug/l   | 100      |
| 44) Trichloroethene            | 6.17  | 130  | 73005    | 22.891  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 77167    | 22.903  | ug/l   | 95       |
| 46) Dibromomethane             | 6.54  | 93   | 50080    | 23.679  | ug/l   | 99       |
| 47) Bromodichloromethane       | 6.74  | 83   | 103021   | 23.665  | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.60  | 41   | 69092    | 22.082  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 6.59  | 88   | 31451    | 460.318 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 7.44  | 43   | 533302   | 116.951 | ug/l   | 100      |
| 52) Toluene                    | 7.62  | 92   | 167488   | 23.166  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 7.86  | 75   | 102337   | 22.677  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.25  | 75   | 116491   | 23.519  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 8.04  | 97   | 80525    | 24.529  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 8.00  | 69   | 102670   | 22.395  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.22  | 76   | 124977   | 23.379  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.11  | 63   | 152646   | 101.065 | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.34  | 43   | 399028   | 117.134 | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.46  | 129  | 84668    | 24.045  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.57  | 107  | 75500    | 23.497  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.21  | 164  | 64782    | 22.431  | ug/l   | 99       |
| 65) Chlorobenzene              | 9.10  | 112  | 192965   | 22.847  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 9.19  | 131  | 74760    | 23.194  | ug/l   | 99       |
| 67) Ethyl Benzene              | 9.23  | 91   | 306675   | 22.208  | ug/l   | 96       |
| 68) m/p-Xylenes                | 9.35  | 106  | 247001   | 47.499  | ug/l   | 99       |
| 69) o-Xylene                   | 9.76  | 106  | 117754   | 23.155  | ug/l   | 99       |
| 70) Styrene                    | 9.77  | 104  | 212268   | 23.807  | ug/l   | 98       |
| 71) Bromoform                  | 9.94  | 173  | 66595    | 23.840  | ug/l # | 100      |
| 73) Isopropylbenzene           | 10.14 | 105  | 328427   | 22.275  | ug/l   | 100      |
| 74) N-amyl acetate             | 9.99  | 43   | 126728   | 21.353  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.43 | 83   | 134883   | 22.601  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 10.47 | 75   | 107235m  | 21.684  | ug/l   |          |
| 77) Bromobenzene               | 10.43 | 156  | 95170    | 23.085  | ug/l   | 96       |
| 78) n-propylbenzene            | 10.57 | 91   | 378183   | 22.210  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.64 | 91   | 233285   | 22.453  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 10.75 | 105  | 287527   | 23.317  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.49 | 75   | 31544m   | 21.450  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.75 | 91   | 272885   | 22.823  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.08 | 119  | 278313   | 22.561  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.12 | 105  | 287053   | 23.126  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.30 | 105  | 331783   | 22.782  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.45 | 119  | 305537   | 22.731  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 11.40 | 146  | 169928   | 22.588  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.49 | 146  | 172359   | 21.966  | ug/l   | 100      |
| 89) n-Butylbenzene             | 11.87 | 91   | 254953   | 21.826  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.12 | 117  | 46691    | 21.712  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 11.85 | 146  | 165450   | 22.378  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.64 | 75   | 25309    | 23.078  | ug/l   | 100      |

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Sample : VU0912WBSD02  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

Manual Integrations  
APPROVED

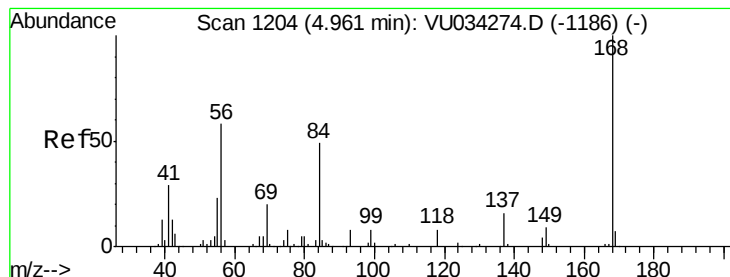
MMDadoda  
9/16/2019 11:16:37 AM

Quant Time: Sep 13 07:44:25 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 06 05:10:13 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.48 | 180  | 97279    | 20.341 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.67 | 225  | 53236    | 20.585 | ug/l  | 99       |
| 95) Naphthalene            | 13.72 | 128  | 253477   | 19.421 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.97 | 180  | 103231   | 21.519 | ug/l  | 97       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion:168 Resp: 234634

Ion Ratio Lower Upper

168 100

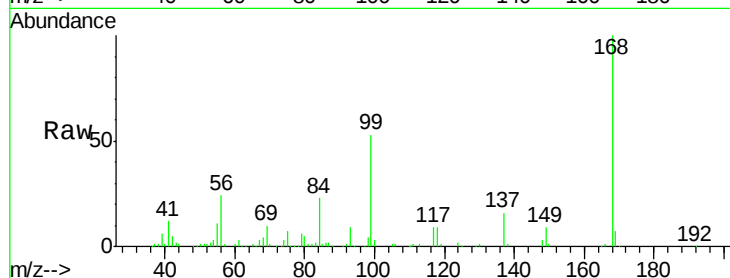
99 52.1 41.6 62.4

Manual Integrations

APPROVED

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9/16/2019 11:16:37 AM



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

100000

80000

60000

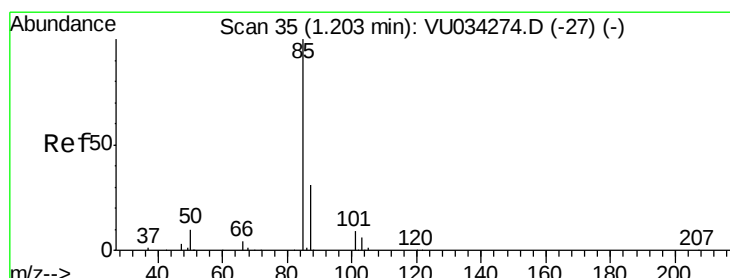
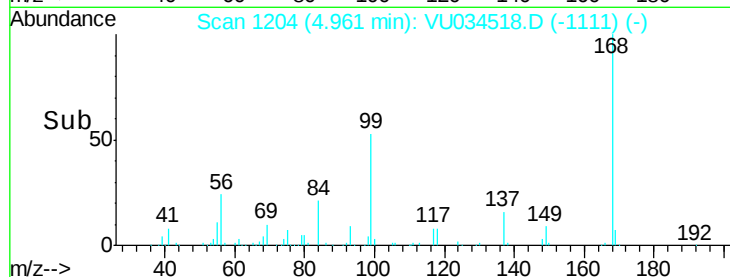
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 20.274 ug/l

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034518.D

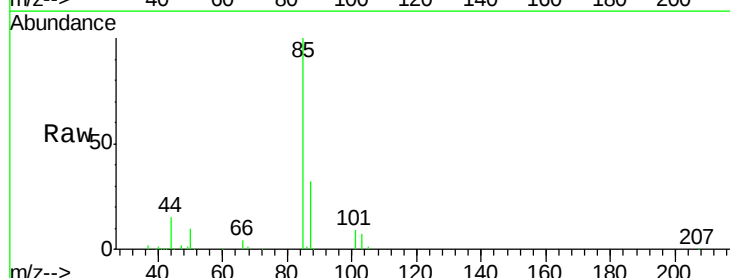
Acq: 12 Sep 2019 14:15

Tgt Ion: 85 Resp: 49750

Ion Ratio Lower Upper

85 100

87 32.2 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034274.D (-27) (-)

Ion 86.90 (86.60 to 87.60): VU034274.D (-27) (-)

1.20

60000

50000

40000

30000

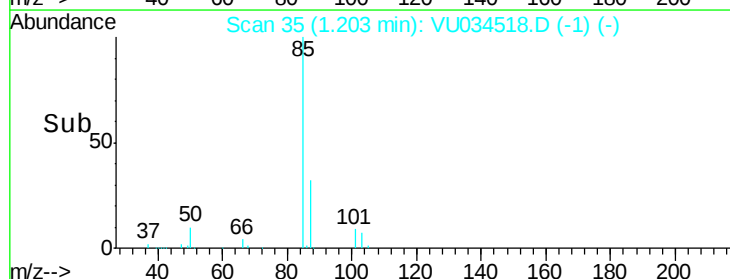
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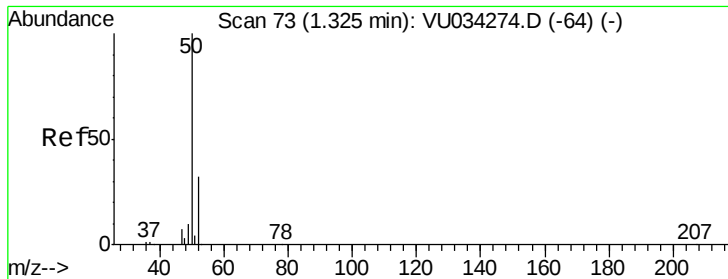
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0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 22.106 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 50 Resp: 58733

Ion Ratio Lower Upper

50 100

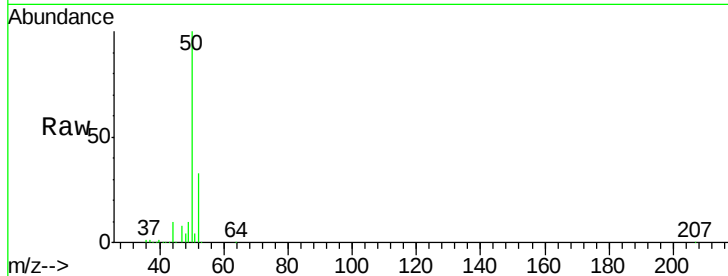
52 32.6 25.8 38.6

Manual Integrations

APPROVED

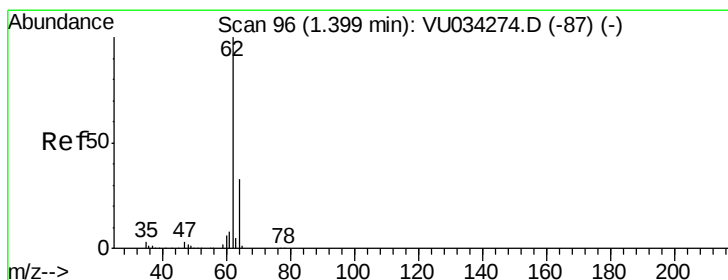
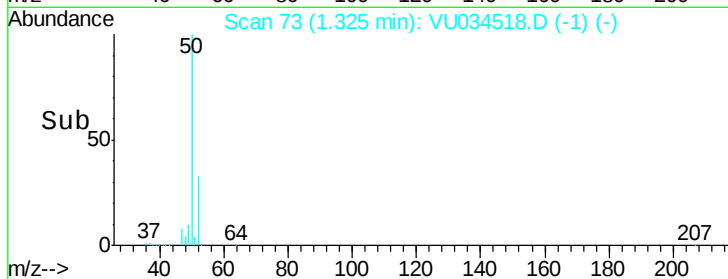
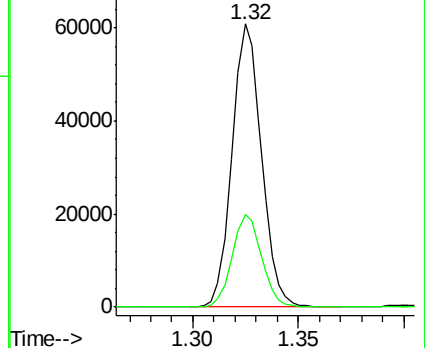
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9/16/2019 11:16:37 AM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 20.127 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034518.D

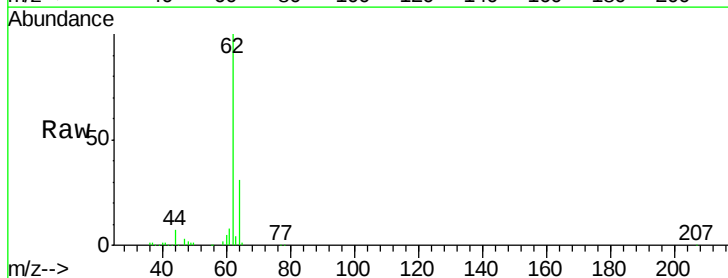
Acq: 12 Sep 2019 14:15

Tgt Ion: 62 Resp: 61547

Ion Ratio Lower Upper

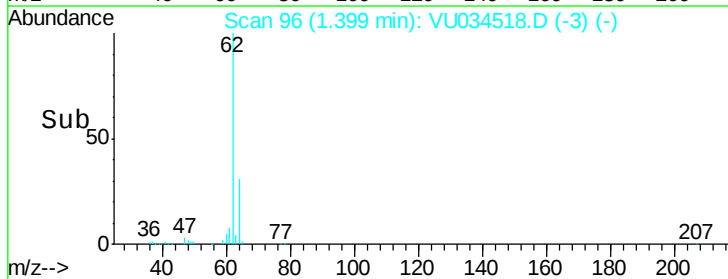
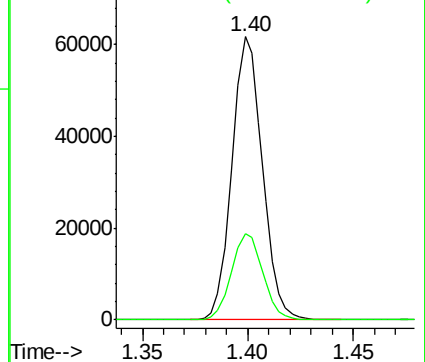
62 100

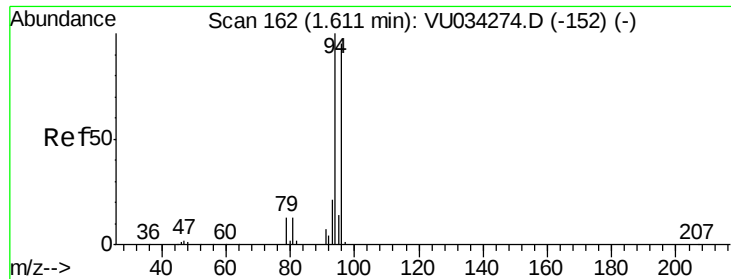
64 30.6 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 22.942 ug/l

RT: 1.62 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 94 Resp: 39178

Ion Ratio Lower Upper

94 100

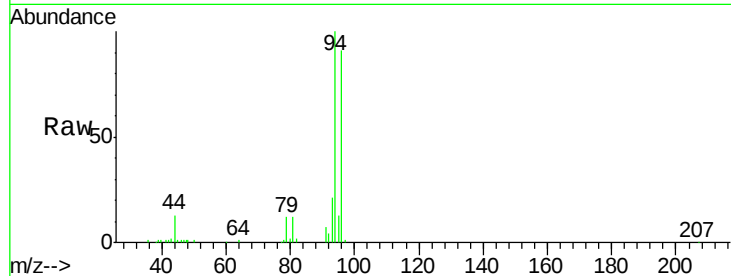
96 90.6 75.7 113.5

Manual Integrations

APPROVED

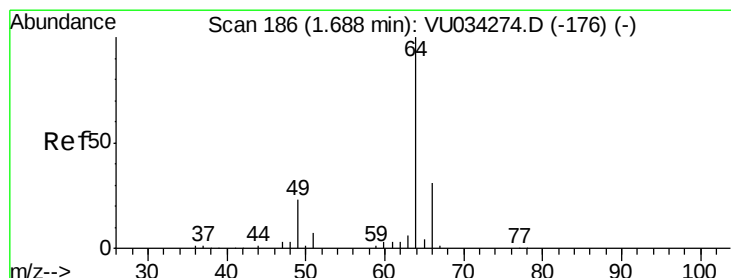
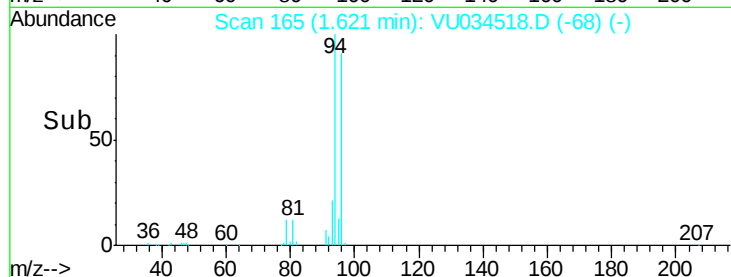
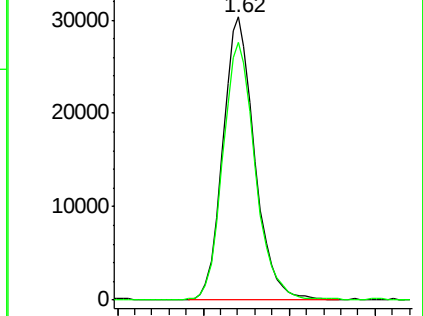
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9/16/2019 11:16:37 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 22.389 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034518.D

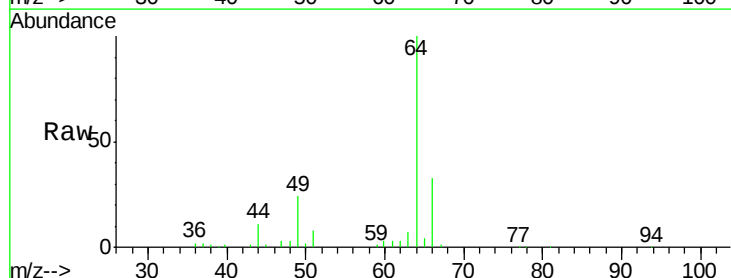
Acq: 12 Sep 2019 14:15

Tgt Ion: 64 Resp: 40776

Ion Ratio Lower Upper

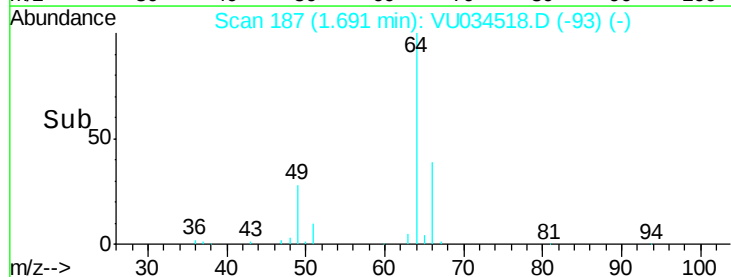
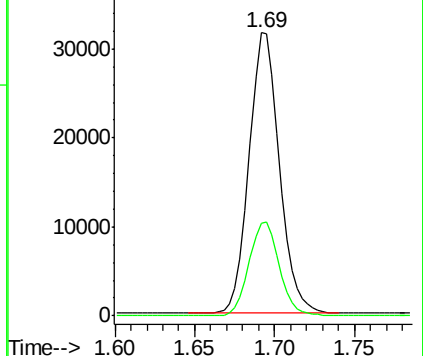
64 100

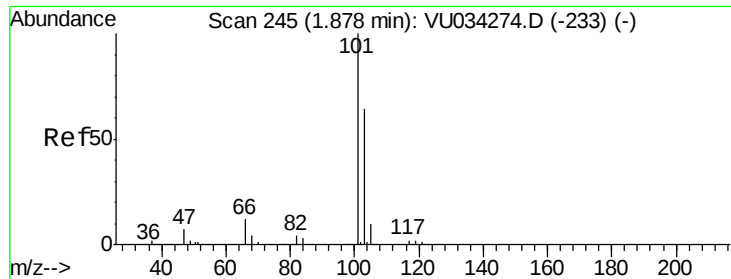
66 33.2 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

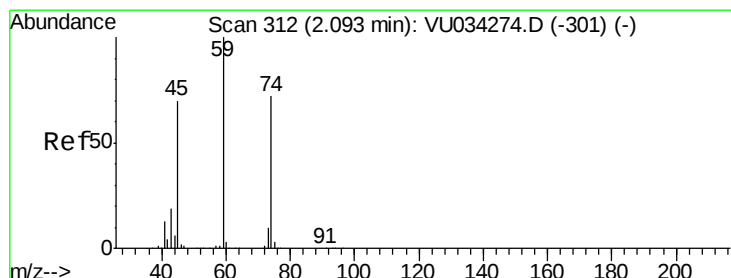
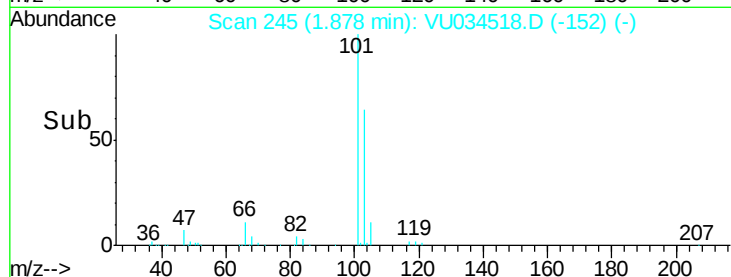
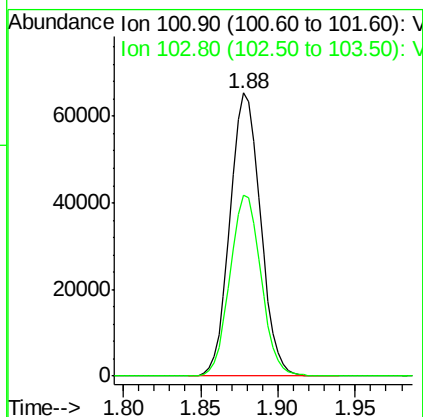
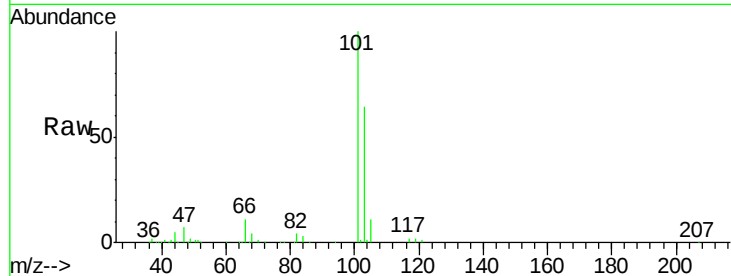
Trichlorofluoromethane  
 Concen: 21.769 ug/l  
 RT: 1.88 min Scan# 245  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.1  | 51.0  | 76.6  |

Manual Integrations  
 APPROVED

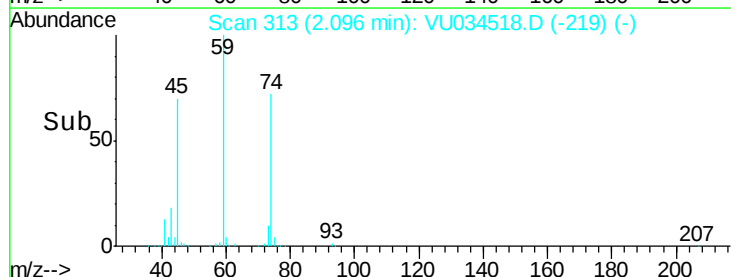
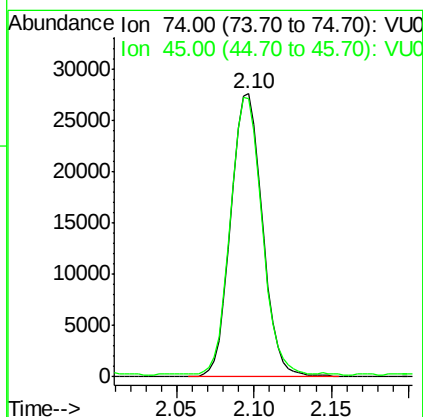
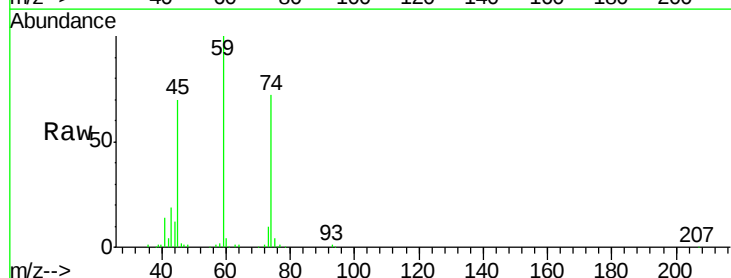
MMDadoda  
 9/16/2019 11:16:37 AM

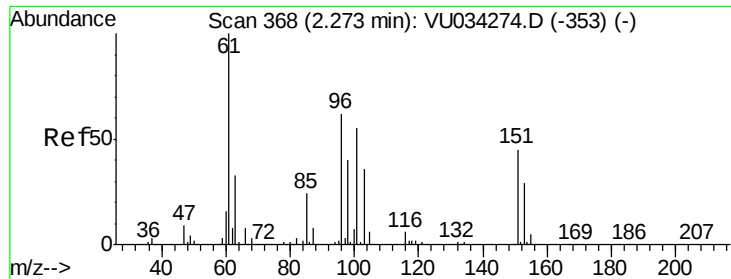


#8

Diethyl Ether  
 Concen: 21.698 ug/l  
 RT: 2.10 min Scan# 313  
 Delta R.T. 0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 96.7  | 48.2  | 144.6 |





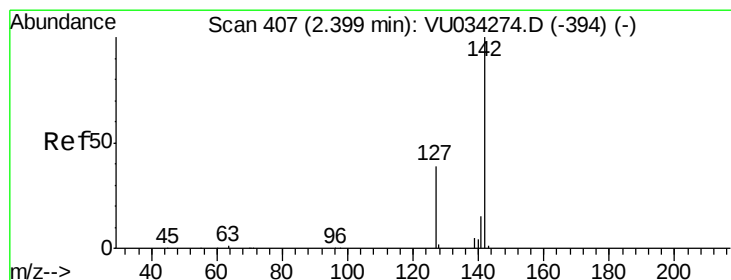
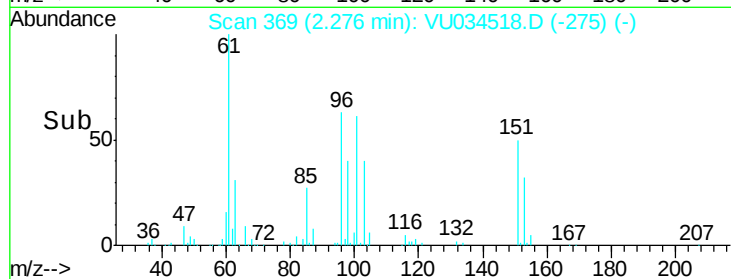
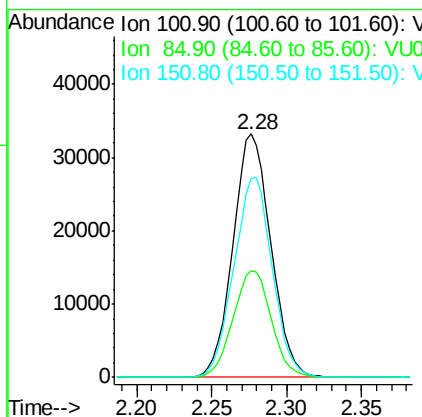
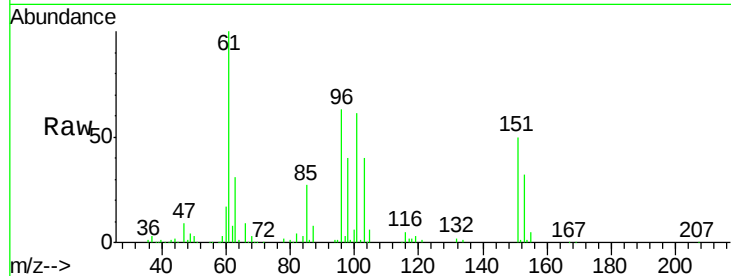
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 21.596 ug/l  
RT: 2.28 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 58645 |       |       |
| 85      | 43.9  |       | 34.4  | 51.6  |
| 151     | 83.3  |       | 64.4  | 96.6  |

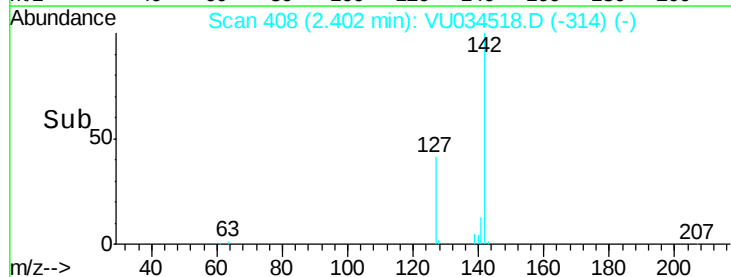
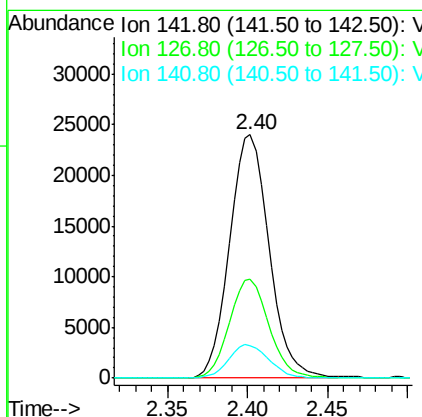
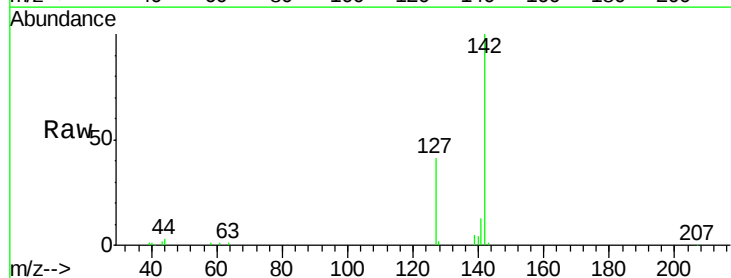
Manual Integrations  
APPROVED

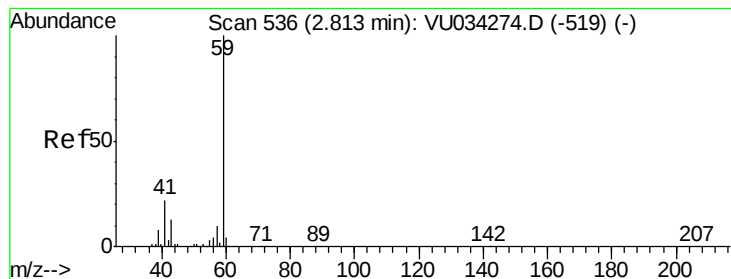
MMDadoda  
9/16/2019 11:16:37 AM



#10  
Methyl Iodide  
Concen: 18.869 ug/l  
RT: 2.40 min Scan# 408  
Delta R.T. 0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 40435 |       |       |
| 127     | 40.6  |       | 32.1  | 48.1  |
| 141     | 14.0  |       | 11.5  | 17.3  |





#11

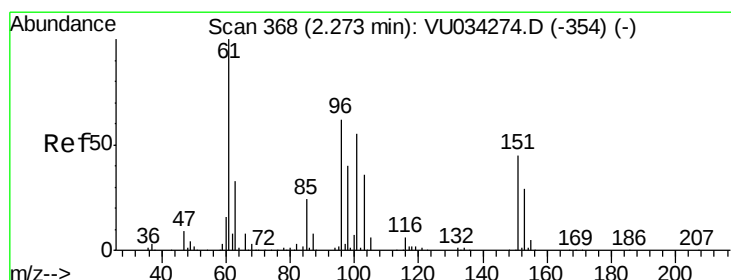
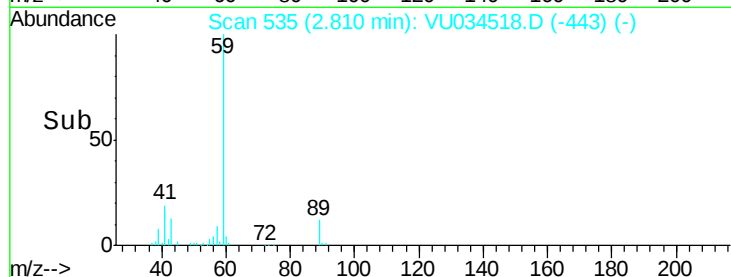
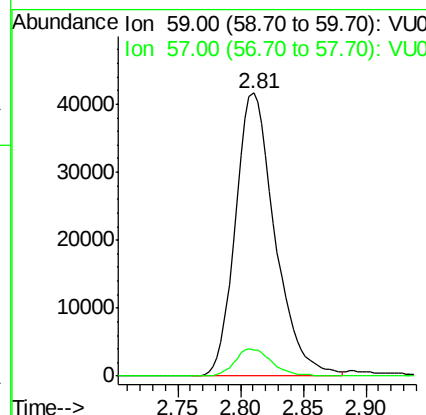
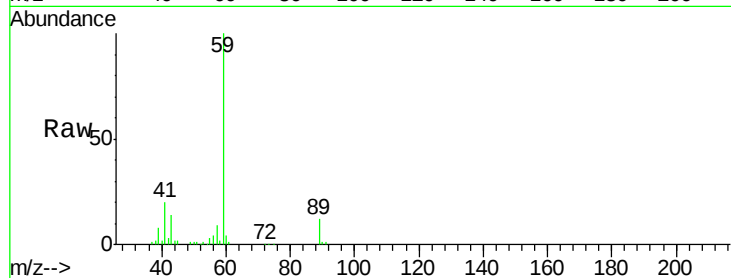
Tert butyl alcohol  
 Concen: 121.942 ug/l  
 RT: 2.81 min Scan# 535  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion   | 59  | Resp  | 91457 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 59        | 100 |       |       |
| 57        | 9.0 | 7.9   | 11.9  |

Manual Integrations  
 APPROVED

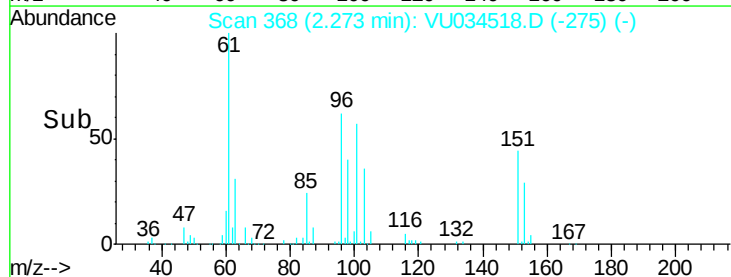
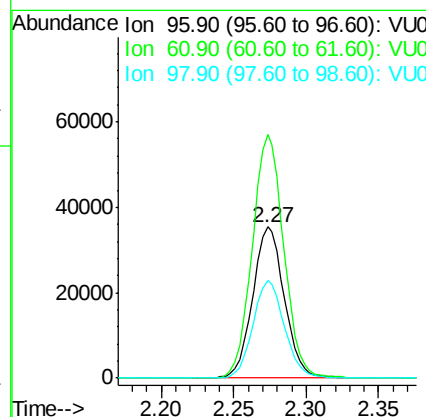
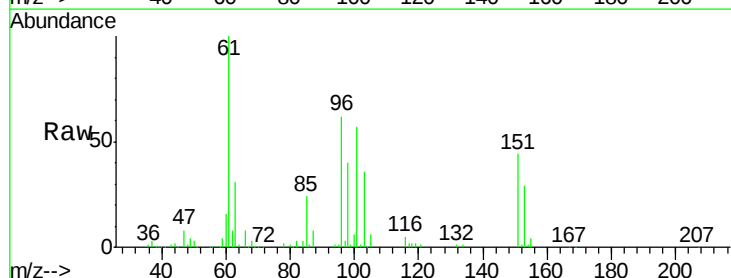
MMDadoda  
 9/16/2019 11:16:37 AM

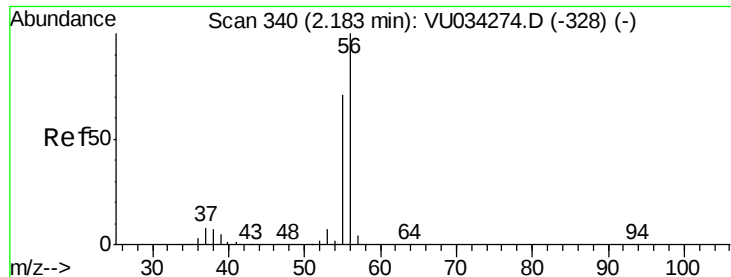


#12

1,1-Dichloroethene  
 Concen: 21.067 ug/l  
 RT: 2.27 min Scan# 368  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion   | 96    | Resp  | 53780 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 96        | 100   |       |       |
| 61        | 160.9 | 130.0 | 195.0 |
| 98        | 64.4  | 52.2  | 78.4  |





#13

Acrolein

Concen: 50.367 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 56 Resp: 31750

Ion Ratio Lower Upper

56 100

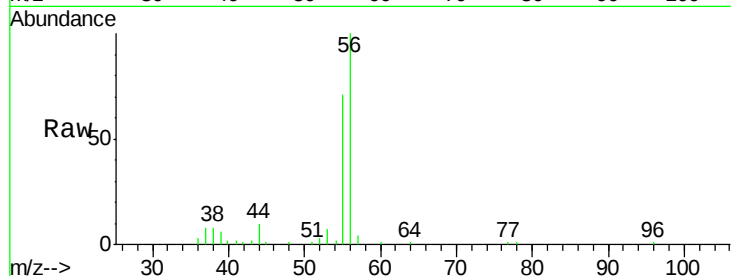
55 74.8 57.4 86.2

Manual Integrations

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MMDadoda

9/16/2019 11:16:37 AM



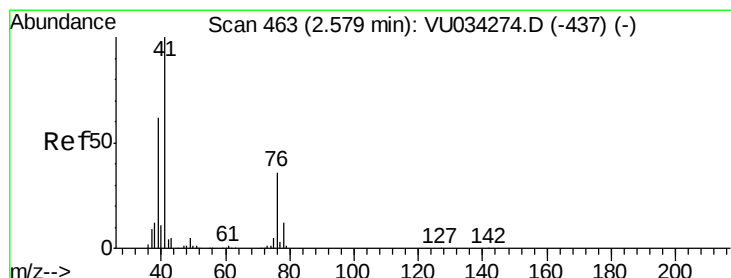
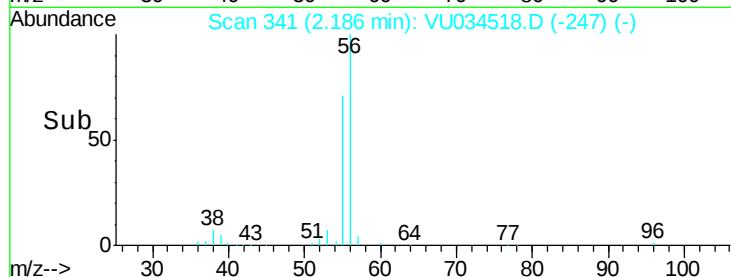
Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-328) (-)

Ion 55.00 (54.70 to 55.70): VU034274.D (-328) (-)

2.19

2.15 2.20 2.25

Time-->



#14

Allyl chloride

Concen: 20.757 ug/l m

RT: 2.58 min Scan# 464

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

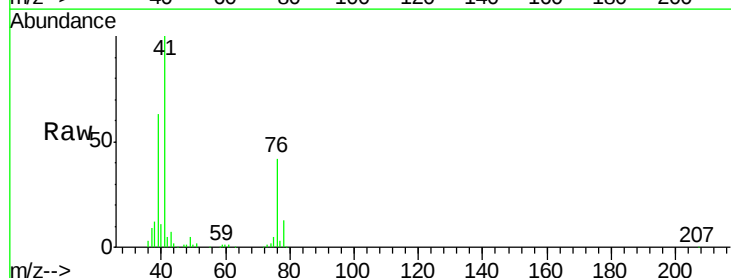
Tgt Ion: 41 Resp: 101304

Ion Ratio Lower Upper

41 100

39 55.0 43.5 65.3

76 34.4 27.0 40.6



Abundance Ion 41.00 (40.70 to 41.70): VU034274.D (-437) (-)

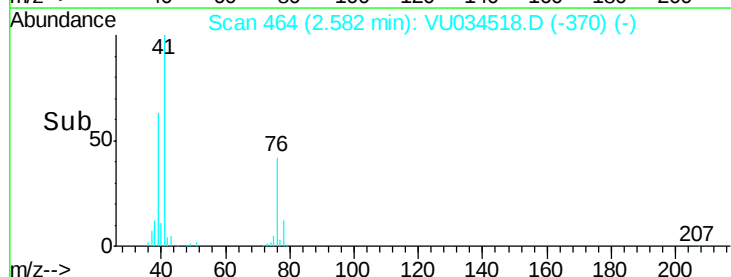
Ion 39.00 (38.70 to 39.70): VU034274.D (-437) (-)

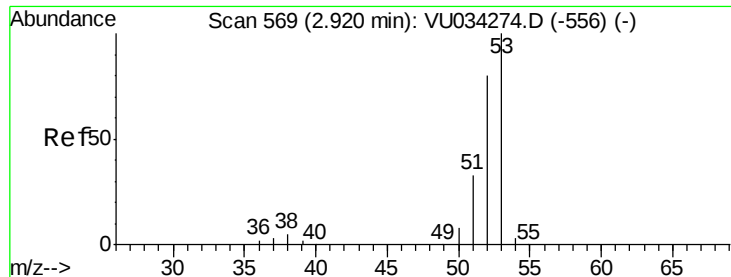
Ion 75.90 (75.60 to 76.60): VU034274.D (-437) (-)

2.58

2.45 2.50 2.55 2.60 2.65

Time-->





#15

Acrylonitrile

Concen: 113.877 ug/l

RT: 2.92 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

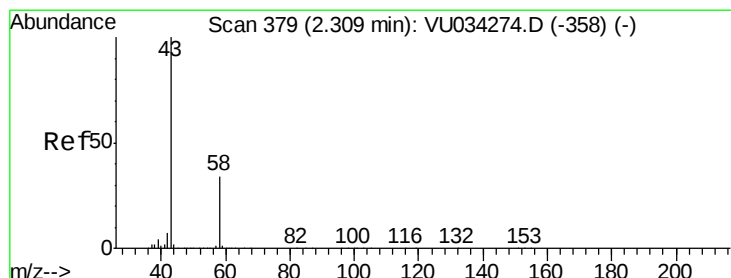
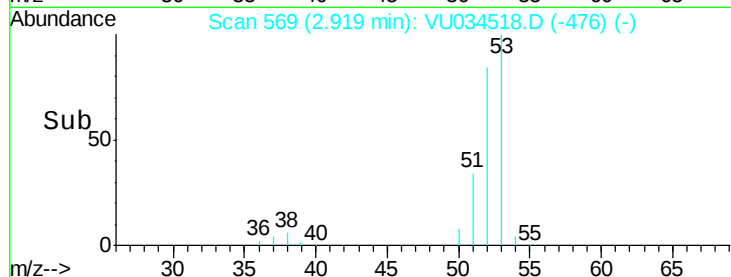
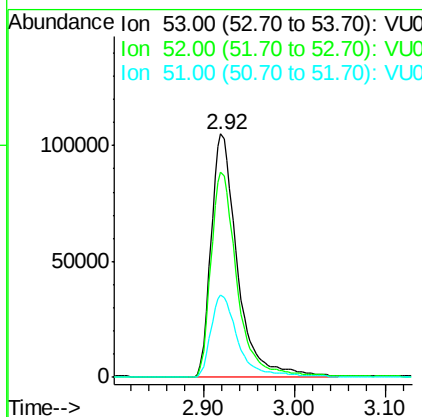
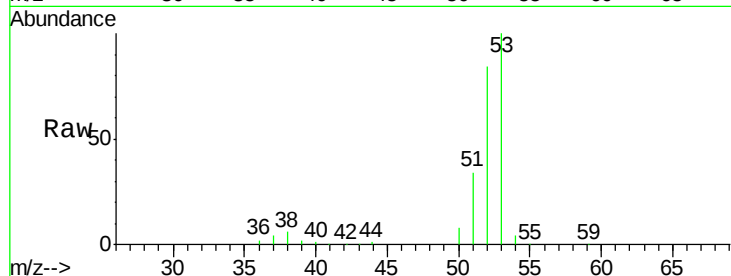
ClientSampleId :

VU0912WBSD02

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 212687 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 83.7  | 64.1  | 96.1   |
| 51       | 35.1  | 27.4  | 41.0   |

Manual Integrations  
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9/16/2019 11:16:37 AM



#16

Acetone

Concen: 108.905 ug/l

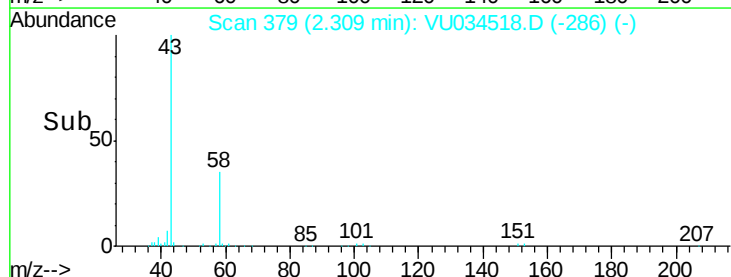
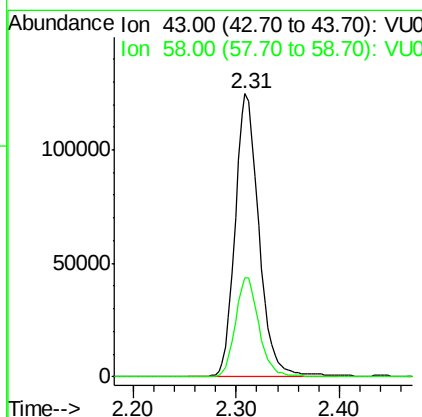
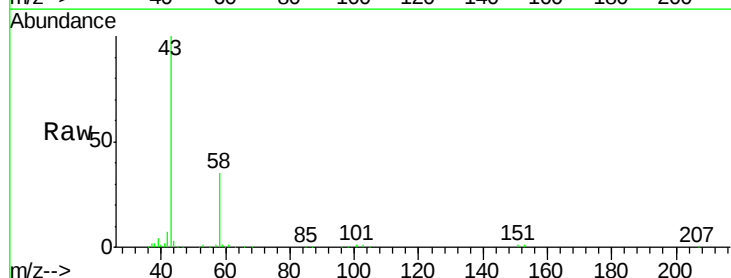
RT: 2.31 min Scan# 379

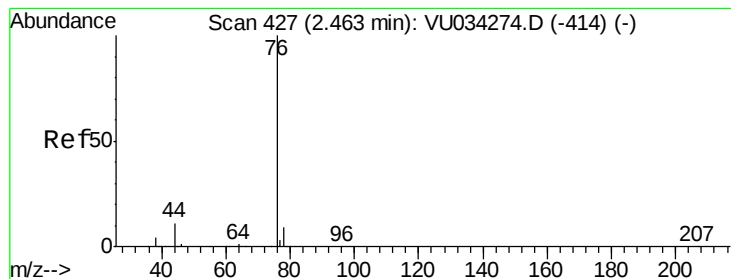
Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 200075 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 34.9  | 27.6  | 41.4   |





#17

Carbon Disulfide

Concen: 17.915 ug/l

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 76 Resp: 102787

Ion Ratio Lower Upper

76 100

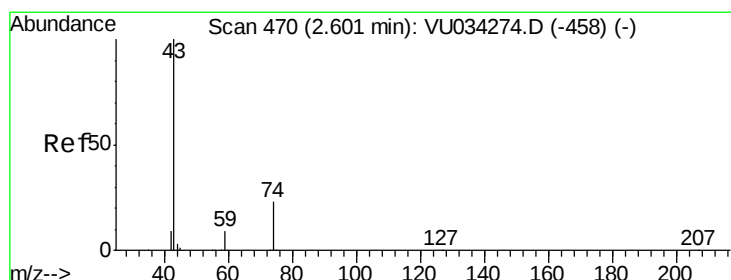
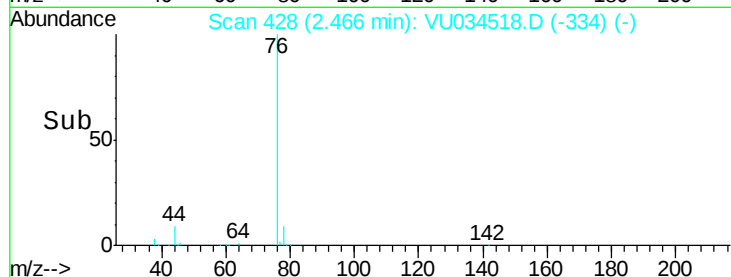
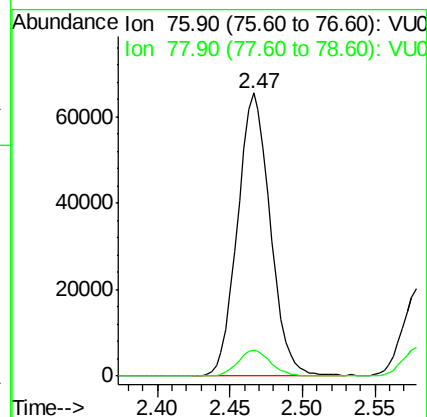
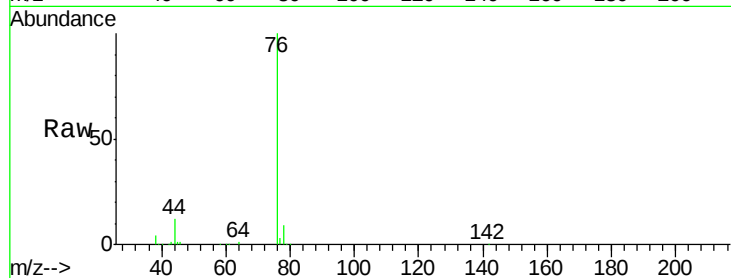
78 9.2 7.2 10.8

Manual Integrations

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#18

Methyl Acetate

Concen: 21.457 ug/l

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU034518.D

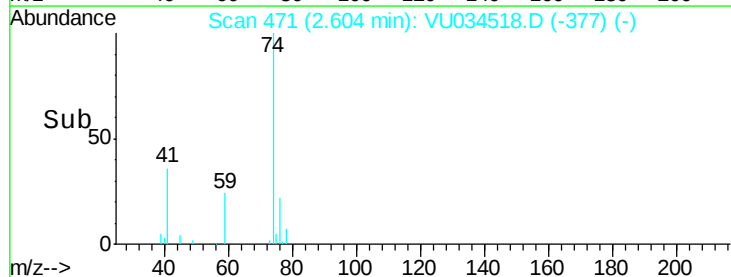
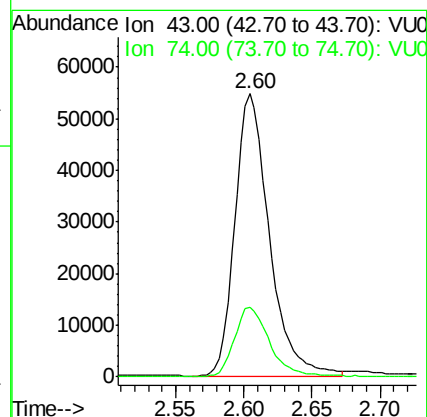
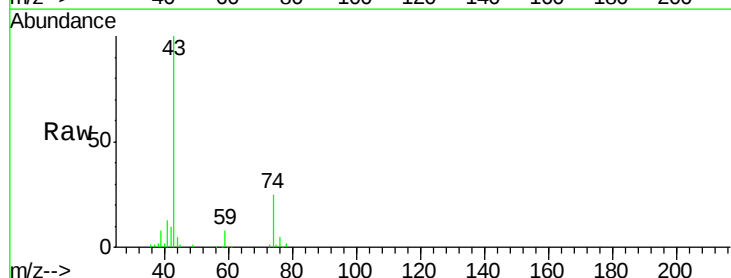
Acq: 12 Sep 2019 14:15

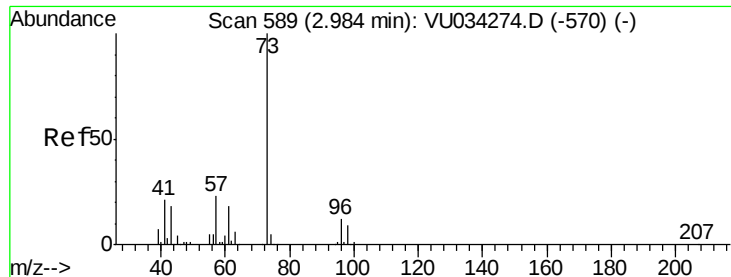
Tgt Ion: 43 Resp: 95917

Ion Ratio Lower Upper

43 100

74 25.7 18.9 28.3





#19

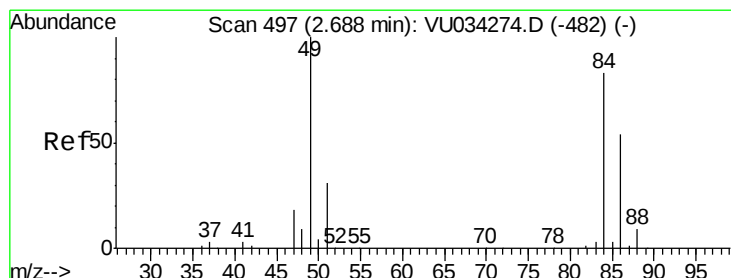
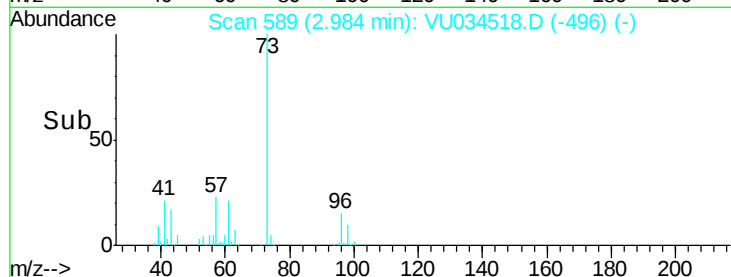
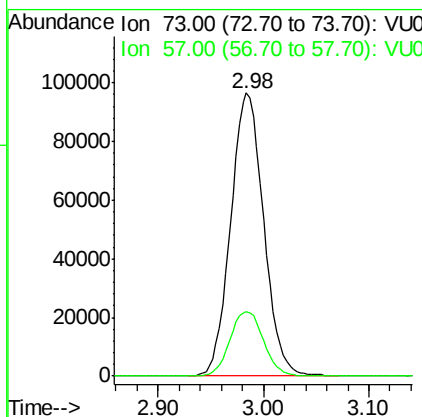
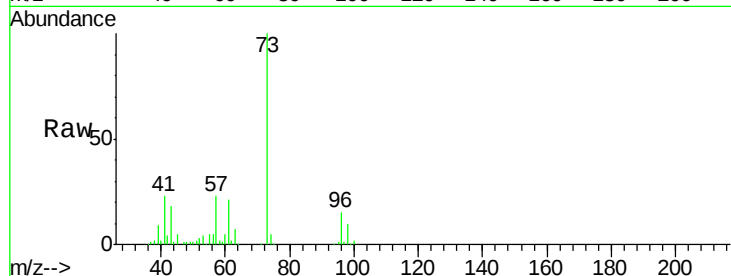
Methyl tert-butyl Ether  
 Concen: 22.489 ug/l  
 RT: 2.98 min Scan# 589  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 22.7  | 18.2  | 27.4  |

Manual Integrations  
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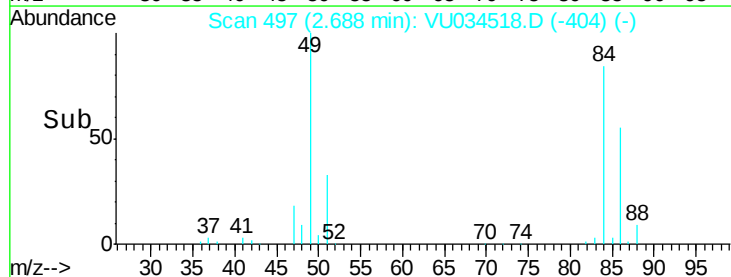
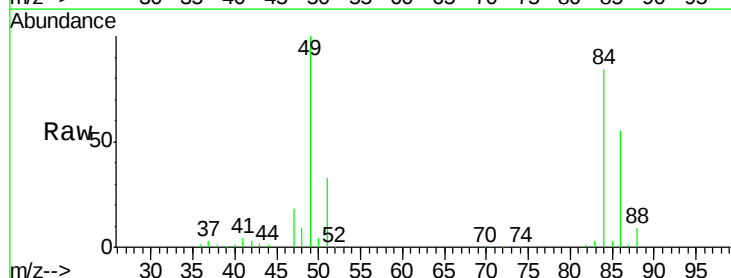
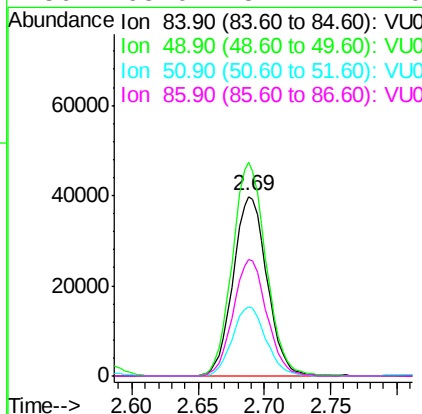
MMDadoda  
 9/16/2019 11:16:37 AM

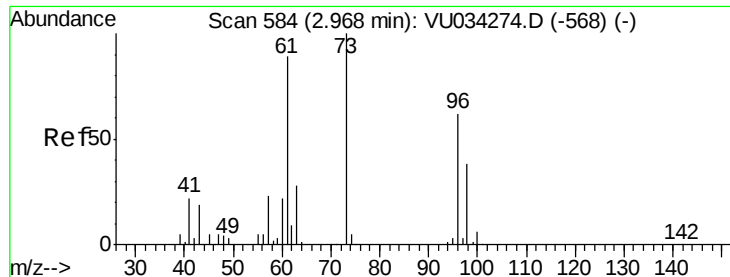


#20

Methylene Chloride  
 Concen: 23.324 ug/l  
 RT: 2.69 min Scan# 497  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 118.9 | 96.0  | 144.0 |
| 51      | 38.7  | 30.0  | 45.0  |
| 86      | 65.0  | 51.4  | 77.0  |





#21

trans-1,2-Dichloroethene

Concen: 21.287 ug/l

RT: 2.97 min Scan# 584

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 96 Resp: 57266

Ion Ratio Lower Upper

96 100

61 140.5 114.8 172.2

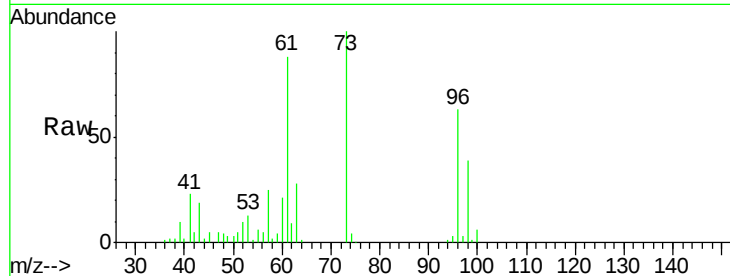
98 62.6 49.8 74.8

Manual Integrations

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MMDadoda

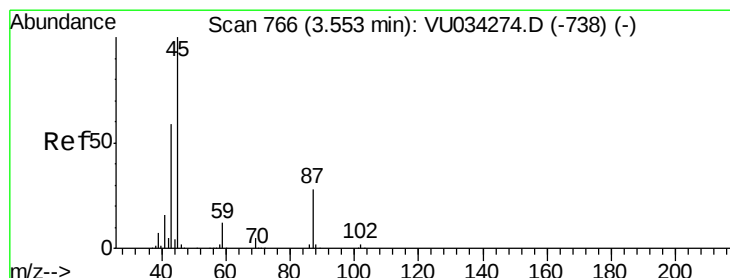
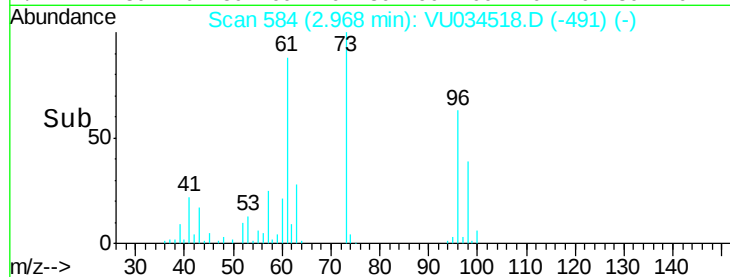
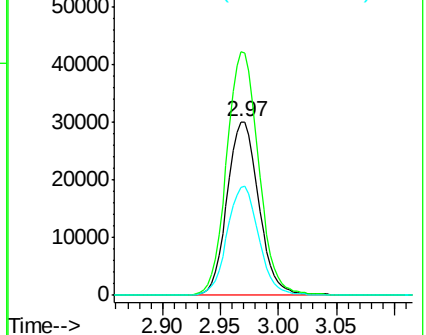
9/16/2019 11:16:37 AM



Abundance Ion 95.90 (95.60 to 96.60): VU034274.D (-568) (-)

Ion 60.90 (60.60 to 61.60): VU034274.D (-568) (-)

Ion 97.90 (97.60 to 98.60): VU034274.D (-568) (-)



#22

Diisopropyl ether

Concen: 23.175 ug/l

RT: 3.55 min Scan# 766

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Tgt Ion: 45 Resp: 220572

Ion Ratio Lower Upper

45 100

43 66.5 47.5 71.3

87 28.5 22.2 33.4

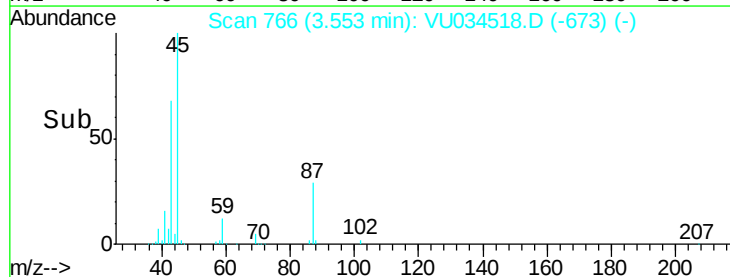
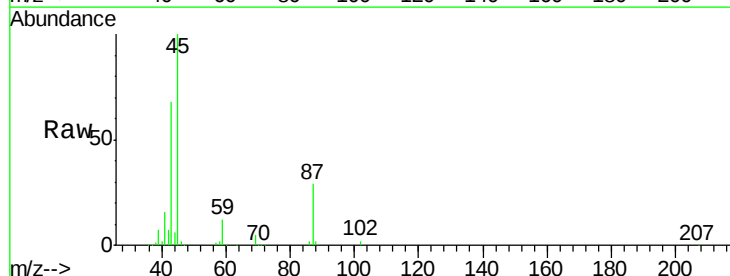
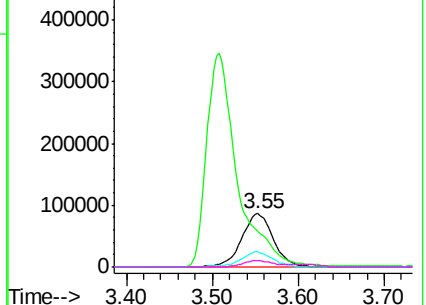
59 12.0 9.4 14.2

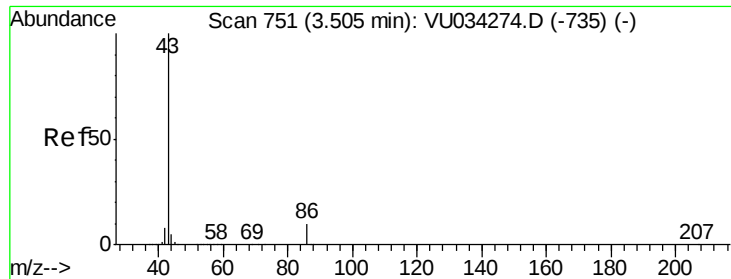
Abundance Ion 45.00 (44.70 to 45.70): VU034274.D (-738) (-)

Ion 43.00 (42.70 to 43.70): VU034274.D (-738) (-)

Ion 87.00 (86.70 to 87.70): VU034274.D (-738) (-)

Ion 59.00 (58.70 to 59.70): VU034274.D (-738) (-)





#23

Vinyl Acetate

Concen: 111.427 ug/l

RT: 3.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 43 Resp: 863871

Ion Ratio Lower Upper

43 100

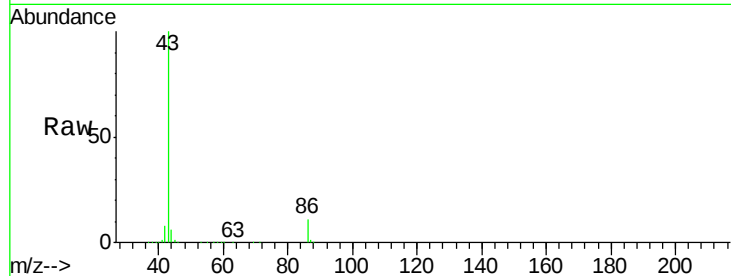
86 10.9 8.3 12.5

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Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-735) (-)

Ion 86.00 (85.70 to 86.70): VU034274.D (-735) (-)

3.51

400000

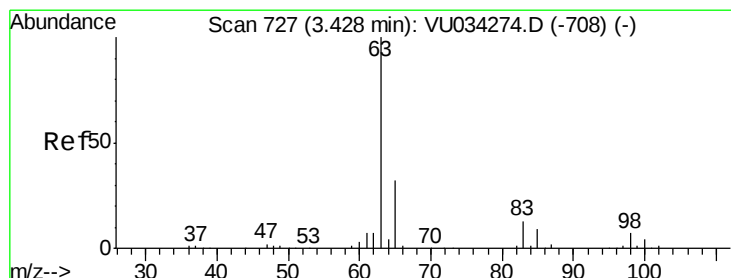
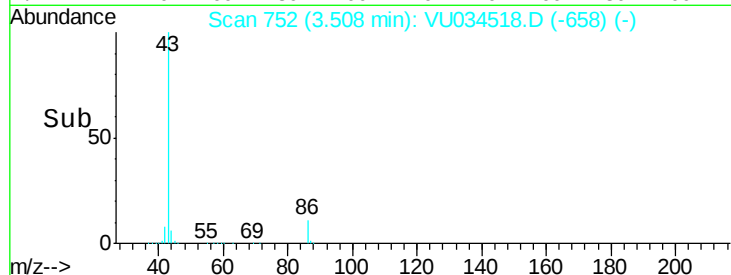
300000

200000

100000

0

Time--> 3.40 3.50 3.60



#24

1,1-Dichloroethane

Concen: 22.524 ug/l

RT: 3.43 min Scan# 727

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

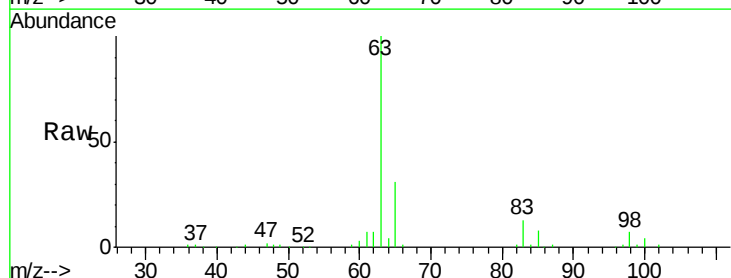
Tgt Ion: 63 Resp: 128027

Ion Ratio Lower Upper

63 100

98 6.5 3.5 10.4

100 3.7 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VU034274.D (-708) (-)

Ion 97.90 (97.60 to 98.60): VU034274.D (-708) (-)

Ion 99.90 (99.60 to 100.60): VU034274.D (-708) (-)

3.43

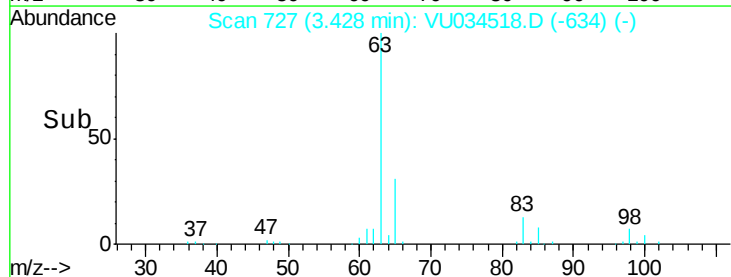
60000

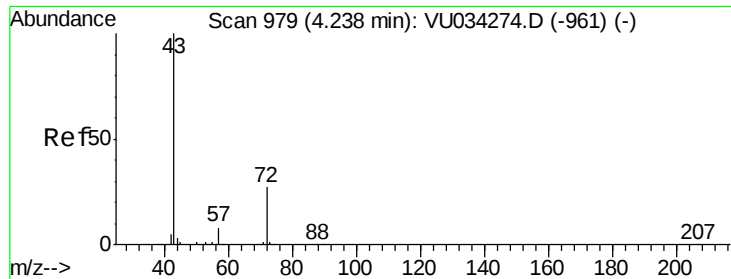
40000

20000

0

Time--> 3.30 3.40 3.50





#25

2-Butanone

Concen: 114.884 ug/l

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 43 Resp: 281737

Ion Ratio Lower Upper

43 100

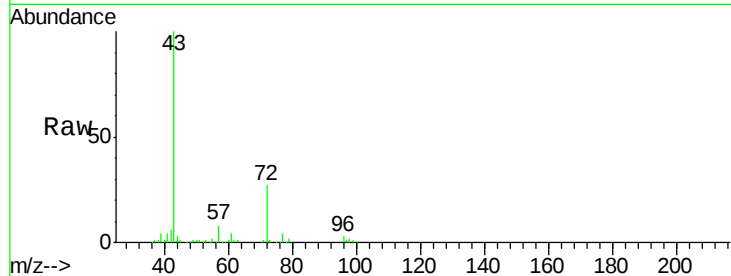
72 27.5 21.8 32.6

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

120000

100000

80000

60000

40000

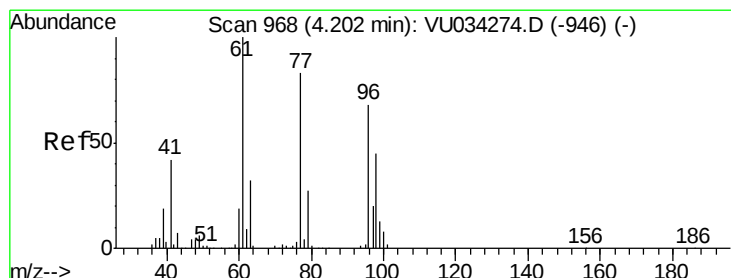
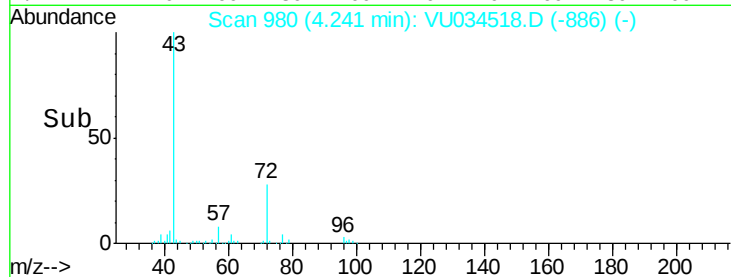
20000

0

4.20

4.30

Time-->



#26

2,2-Dichloropropane

Concen: 23.065 ug/l

RT: 4.21 min Scan# 969

Delta R.T. 0.00 min

Lab File: VU034518.D

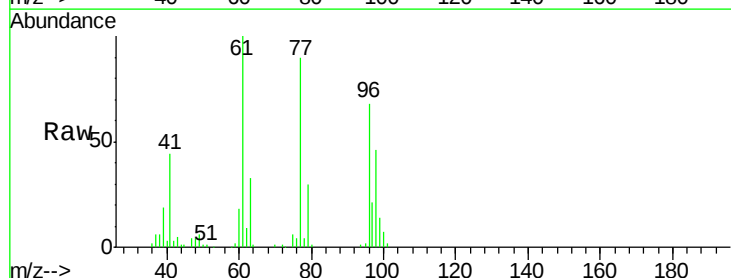
Acq: 12 Sep 2019 14:15

Tgt Ion: 77 Resp: 105438

Ion Ratio Lower Upper

77 100

97 23.3 11.8 35.3



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

40000

30000

20000

10000

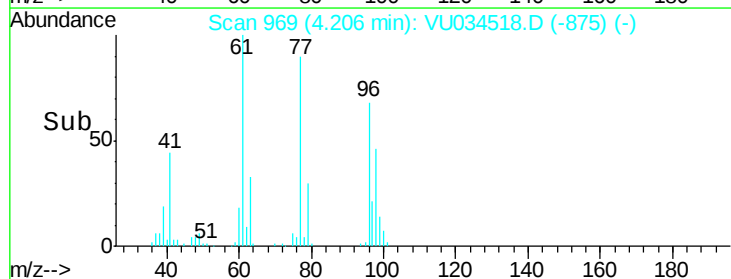
0

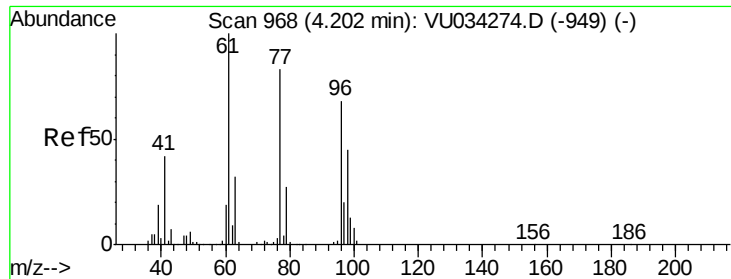
4.10

4.20

4.30

Time-->





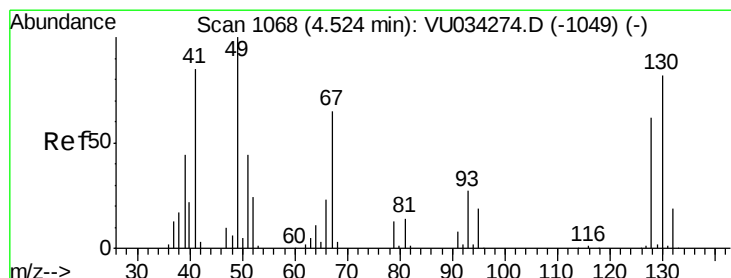
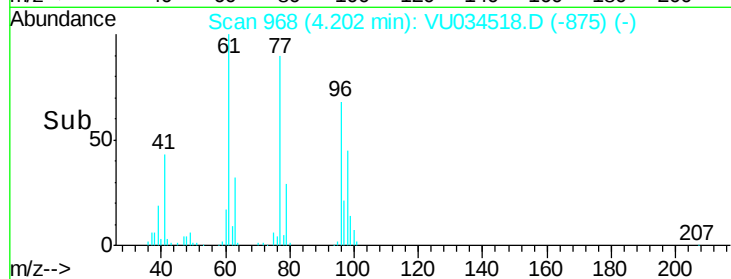
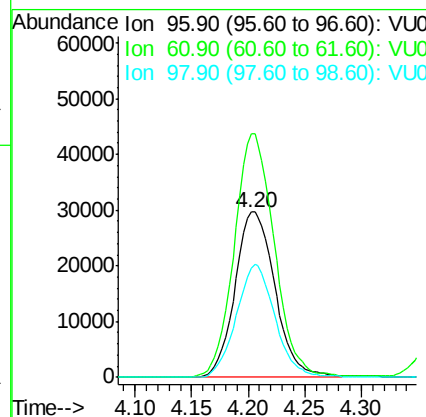
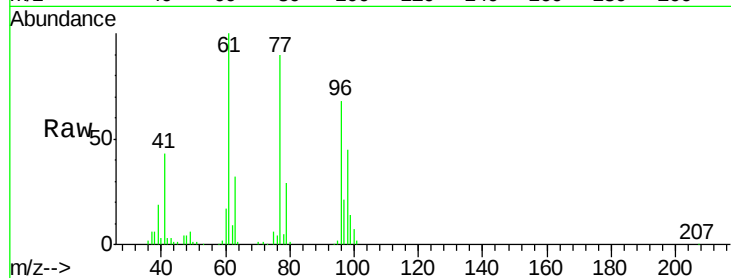
#27  
 cis-1,2-Dichloroethene  
 Concen: 22.379 ug/l  
 RT: 4.20 min Scan# 968  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   | 73120 |       |       |
| 61      | 147.1 | 0.0   | 297.4 |       |
| 98      | 66.2  | 0.0   | 130.0 |       |

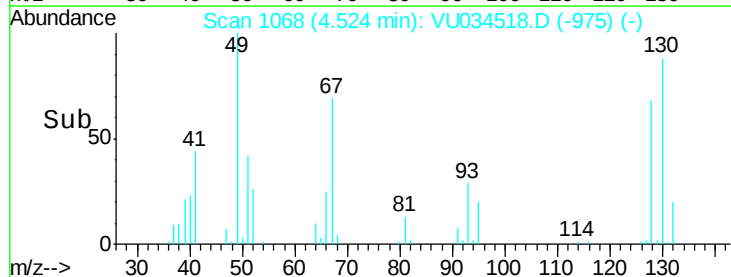
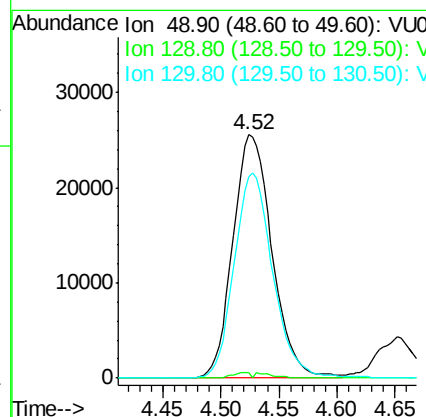
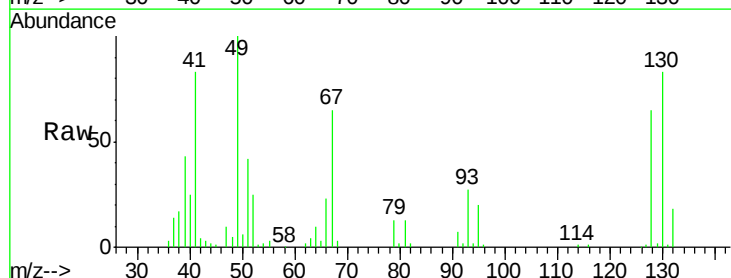
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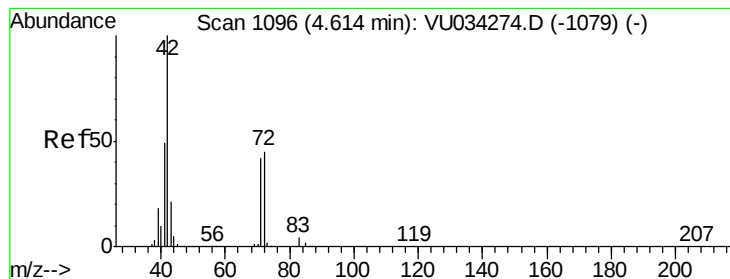
MMDadoda  
 9/16/2019 11:16:37 AM



#28  
 Bromochloromethane  
 Concen: 22.827 ug/l  
 RT: 4.52 min Scan# 1068  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 49      | 100   | 59677 |       |       |
| 129     | 0.9   | 0.0   | 3.8   |       |
| 130     | 0.0   | 65.2  | 97.8# |       |





#29

Tetrahydrofuran

Concen: 116.341 ug/l

RT: 4.62 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

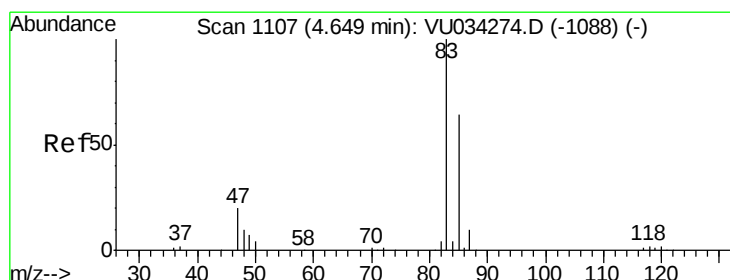
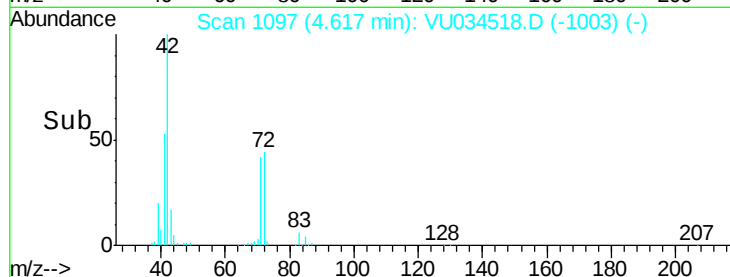
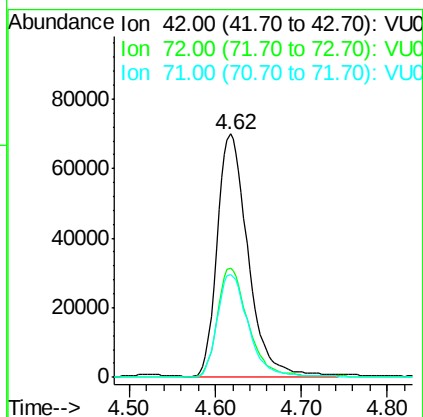
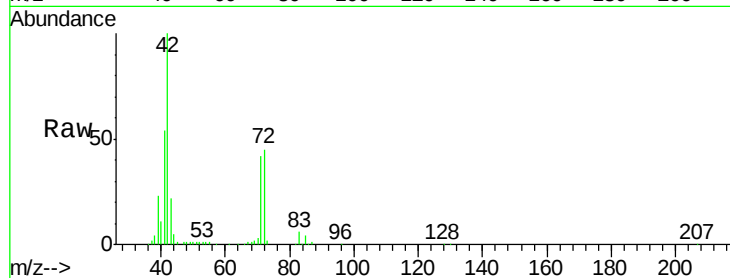
ClientSampleId :

VU0912WBSD02

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 173612 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 45.2  | 36.6  | 54.8   |
| 71       | 42.8  | 34.3  | 51.5   |

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#30

Chloroform

Concen: 22.570 ug/l

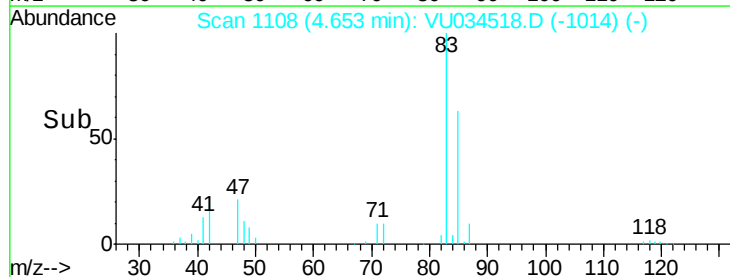
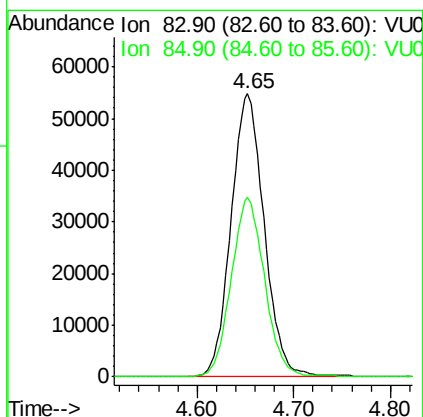
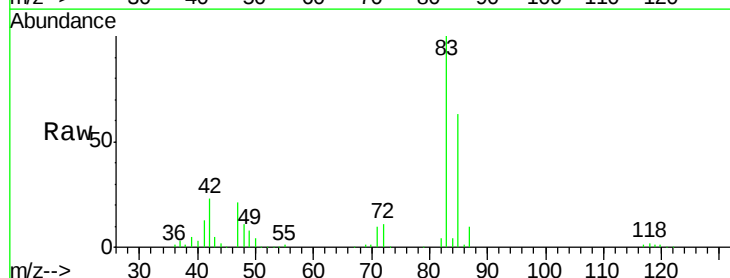
RT: 4.65 min Scan# 1108

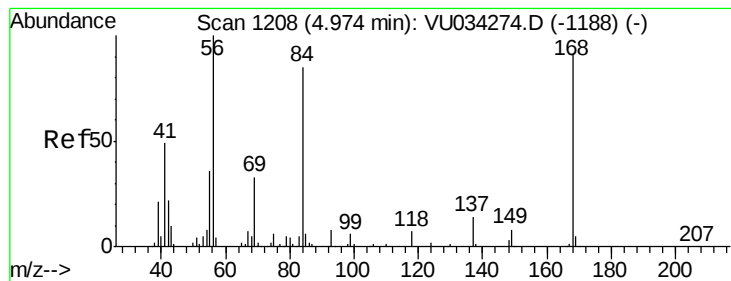
Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 130398 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.4  | 51.5  | 77.3   |





#31

Cyclohexane

Concen: 19.973 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 56 Resp: 83055

Ion Ratio Lower Upper

56 100

69 37.7 26.7 40.1

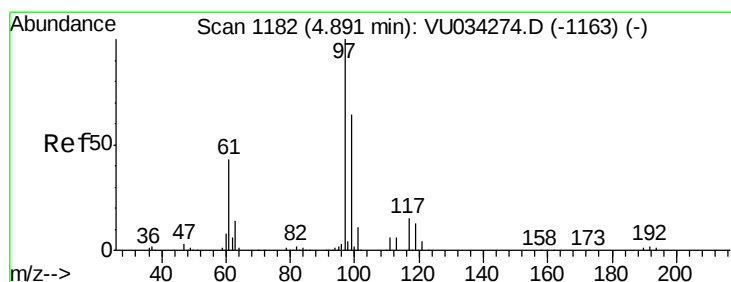
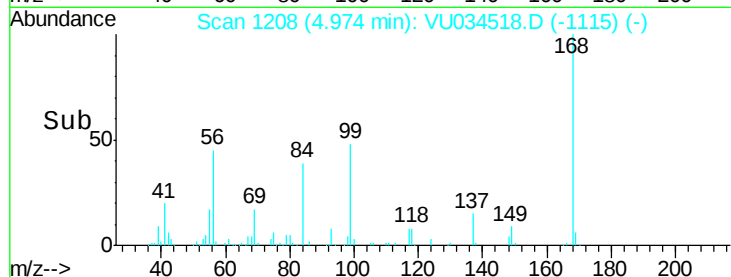
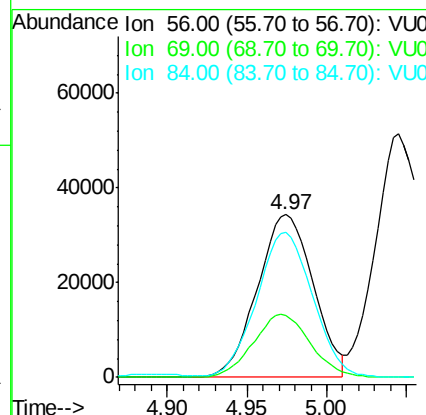
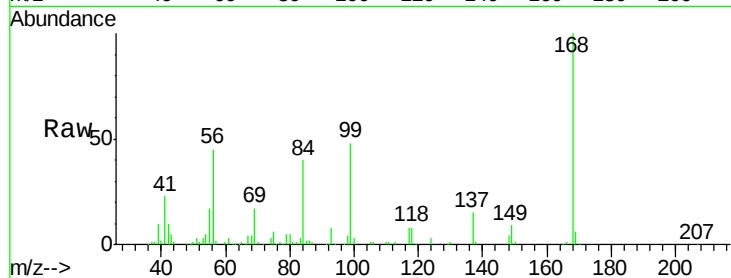
84 88.6 68.2 102.4

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#32

1,1,1-Trichloroethane

Concen: 22.506 ug/l

RT: 4.89 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

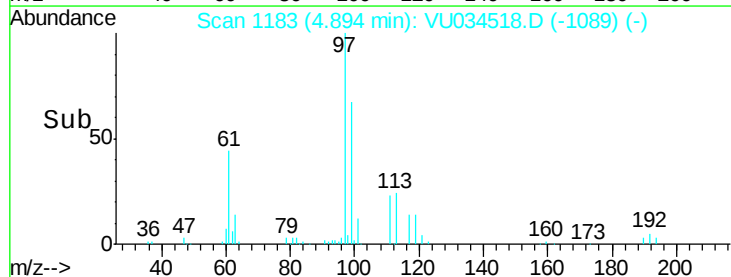
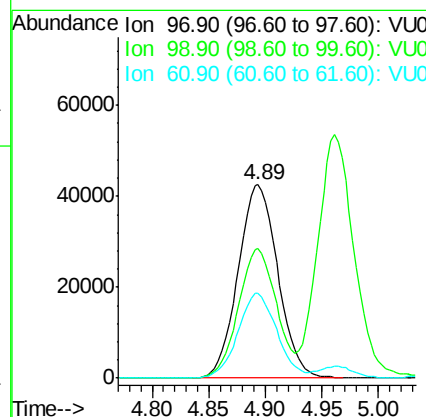
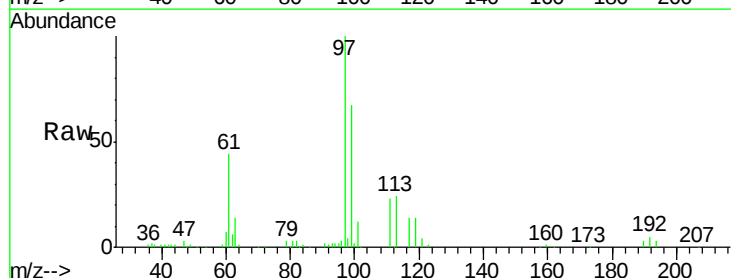
Tgt Ion: 97 Resp: 103962

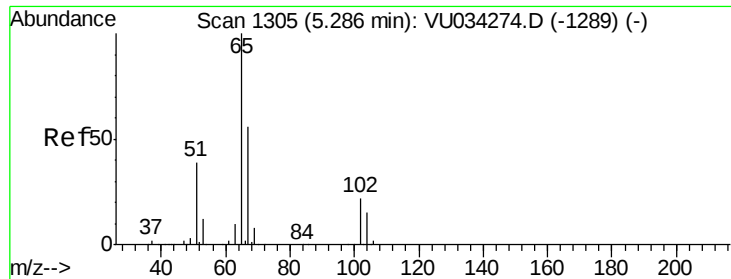
Ion Ratio Lower Upper

97 100

99 64.2 50.9 76.3

61 43.2 34.7 52.1





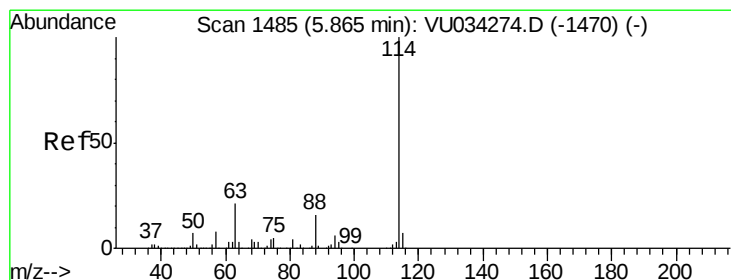
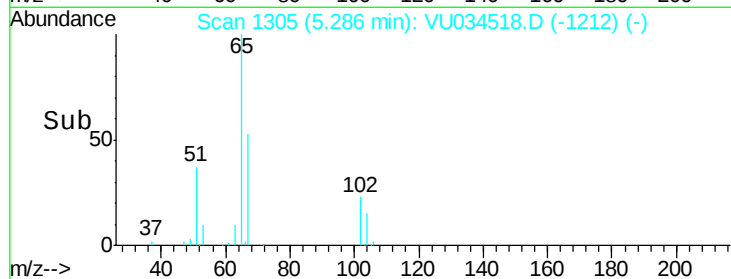
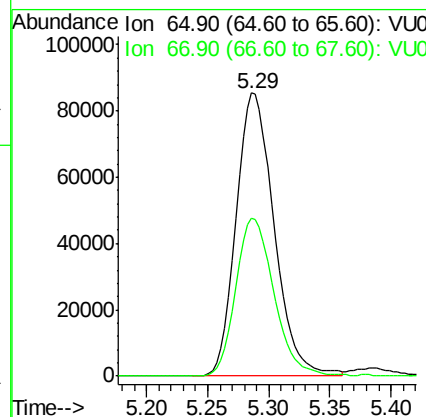
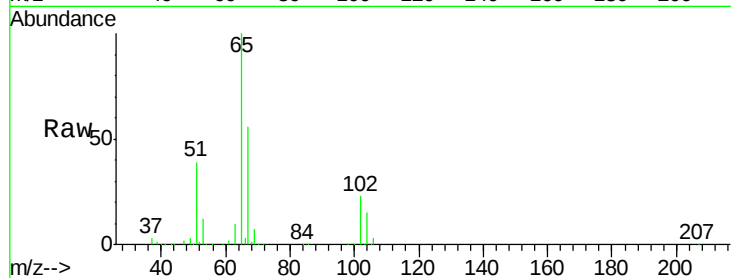
#33  
 1,2-Dichloroethane-d4  
 Concen: 52.041 ug/l  
 RT: 5.29 min Scan# 1305  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 56.2  | 0.0   | 112.4 |

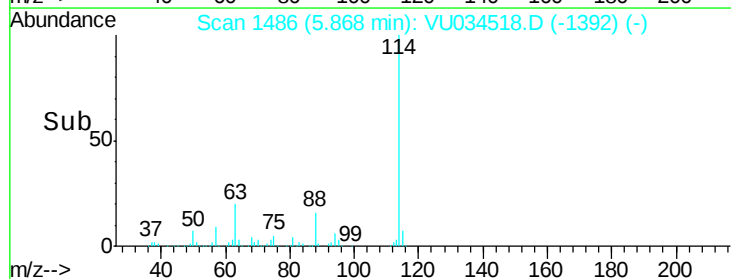
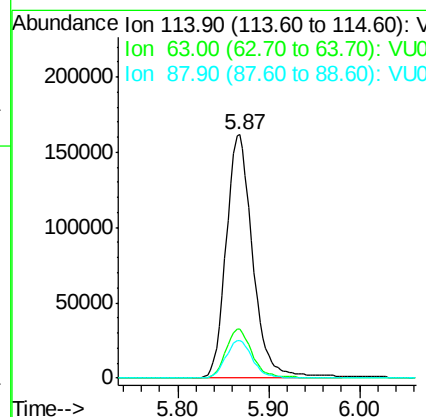
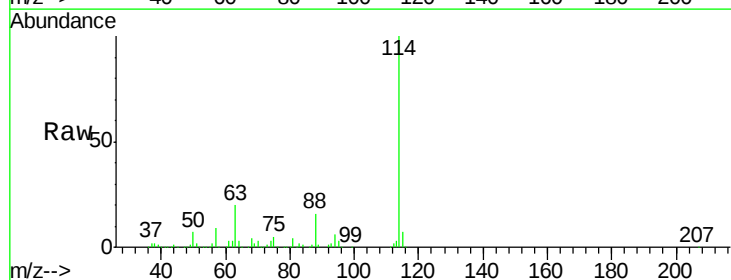
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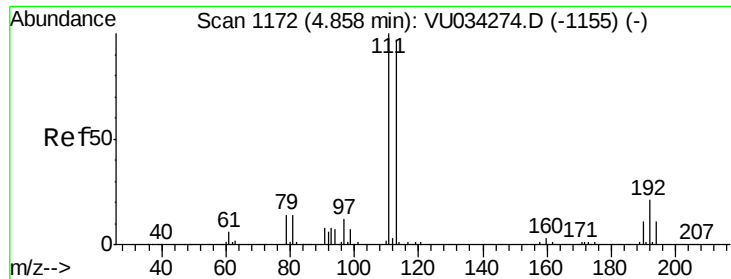
MMDadoda  
 9/16/2019 11:16:37 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.87 min Scan# 1486  
 Delta R.T. 0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.1  | 0.0   | 42.4  |
| 88      | 15.7  | 0.0   | 32.4  |





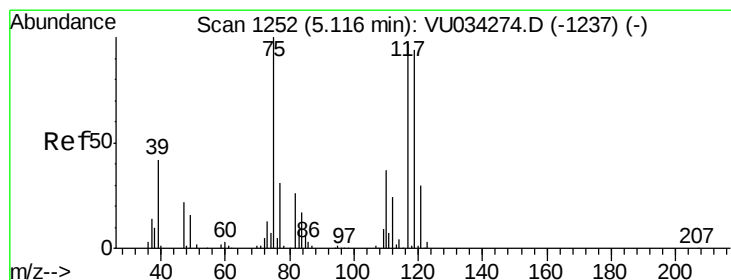
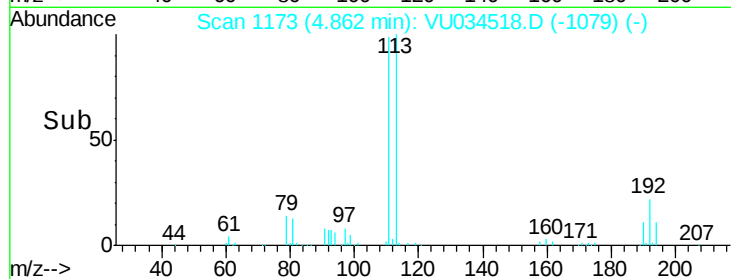
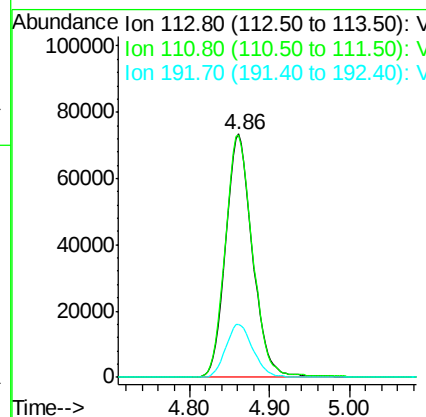
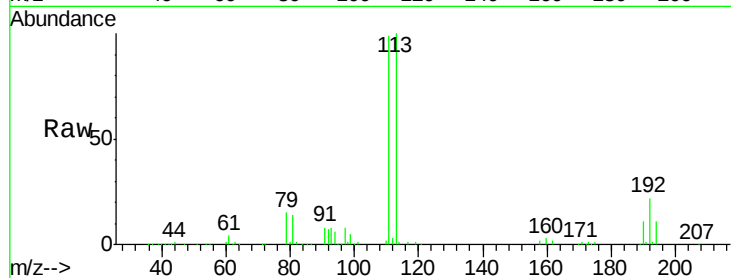
#35  
 Dibromofluoromethane  
 Concen: 55.179 ug/l  
 RT: 4.86 min Scan# 1173  
 Delta R.T. 0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 169099 |       |       |
| 111     | 100.1 | 81.5   | 122.3 |       |
| 192     | 22.1  | 17.8   | 26.8  |       |

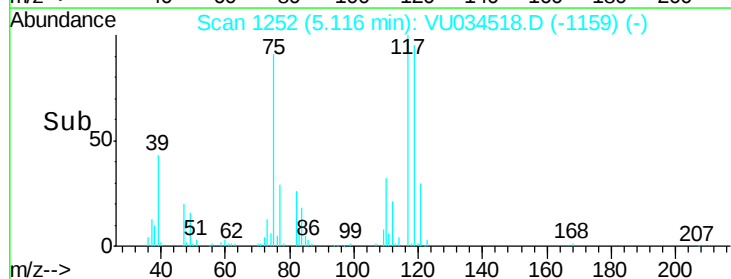
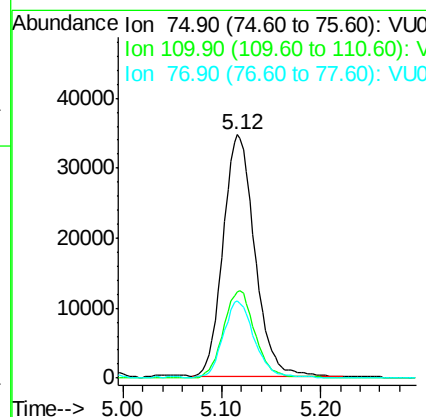
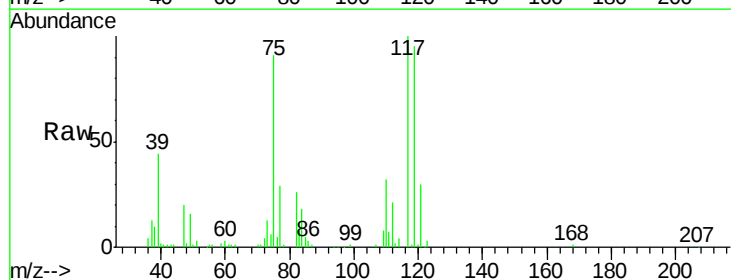
Manual Integrations  
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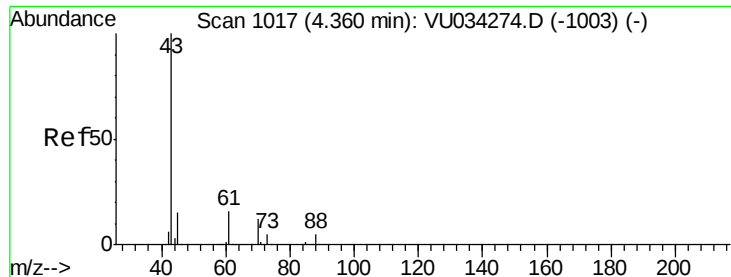
MMDadoda  
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#36  
 1,1-Dichloropropene  
 Concen: 21.787 ug/l  
 RT: 5.12 min Scan# 1252  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 77819 |       |       |
| 110     | 36.1  | 18.3  | 54.9  |       |
| 77      | 30.5  | 24.9  | 37.3  |       |





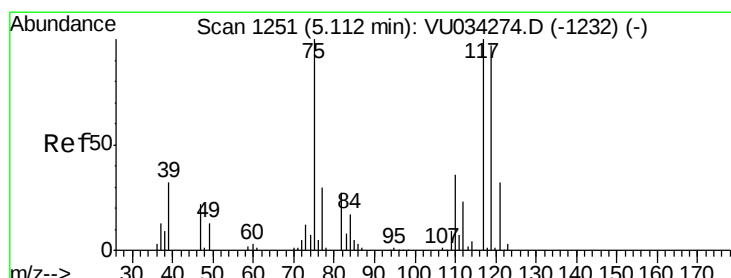
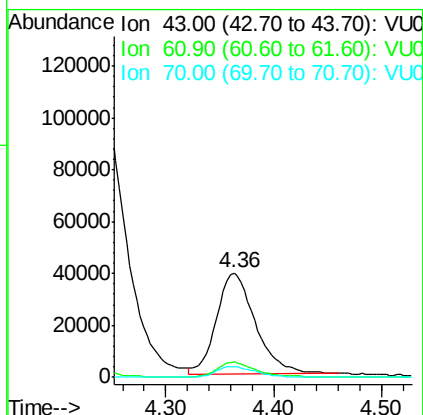
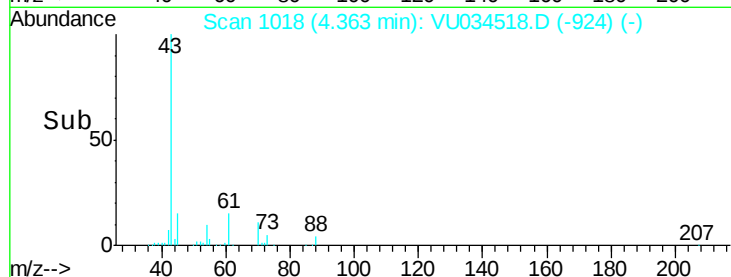
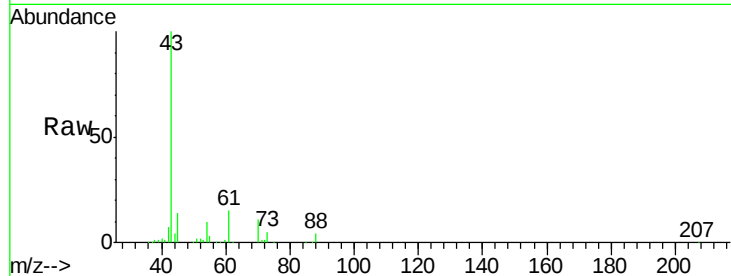
#37  
Ethyl Acetate  
Concen: 23.335 ug/l  
RT: 4.36 min Scan# 1018  
Delta R.T. 0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 13.6  | 12.3  | 18.5  |
| 70      | 11.0  | 9.1   | 13.7  |

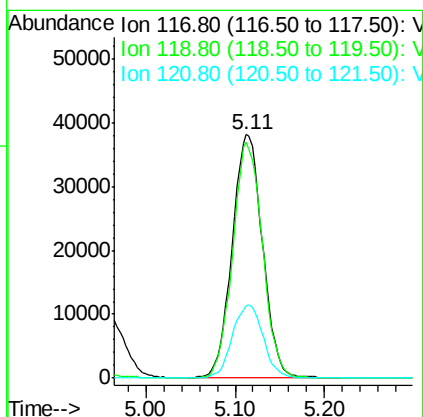
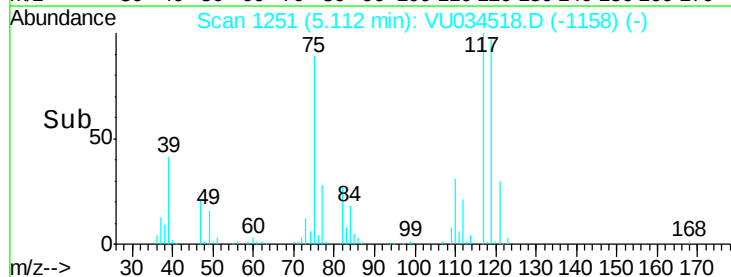
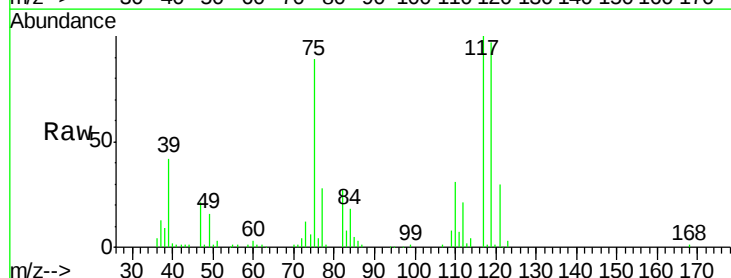
Manual Integrations  
APPROVED

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9/16/2019 11:16:37 AM



#38  
Carbon Tetrachloride  
Concen: 23.575 ug/l  
RT: 5.11 min Scan# 1251  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.9  | 77.8  | 116.6 |
| 121     | 29.6  | 25.2  | 37.8  |





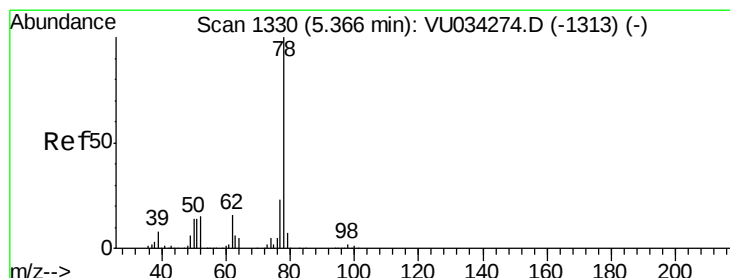
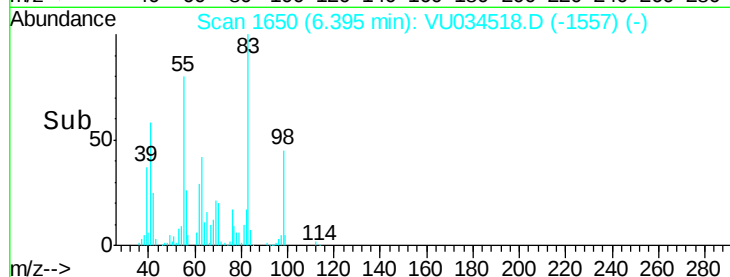
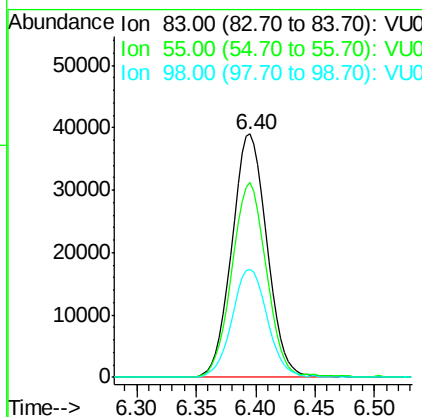
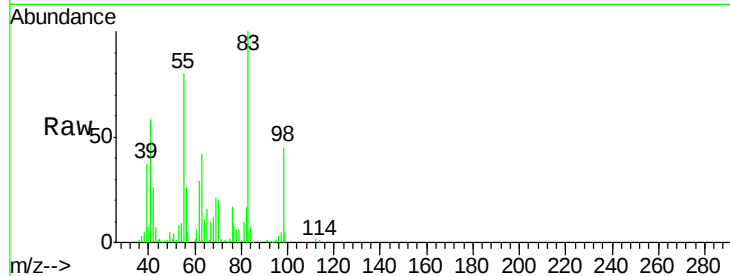
#39  
Methvlcvclohexane  
Concen: 20.920 ug/l  
RT: 6.40 min Scan# 1650  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 80.1  | 62.1  | 93.1  |
| 98      | 44.5  | 37.0  | 55.6  |

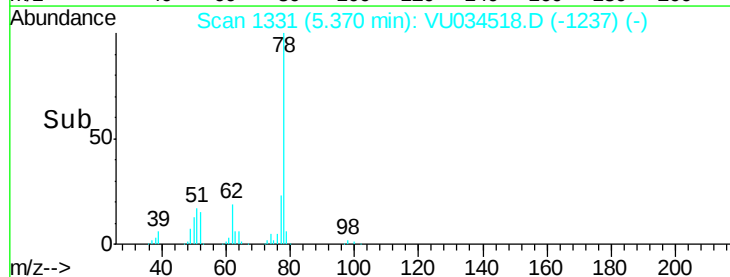
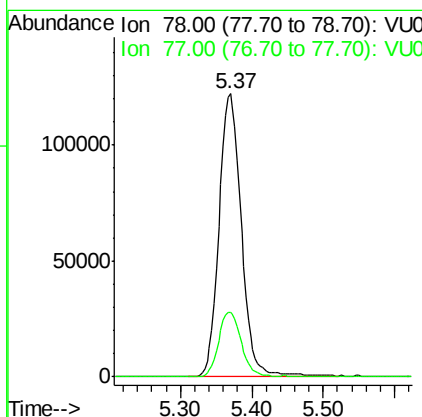
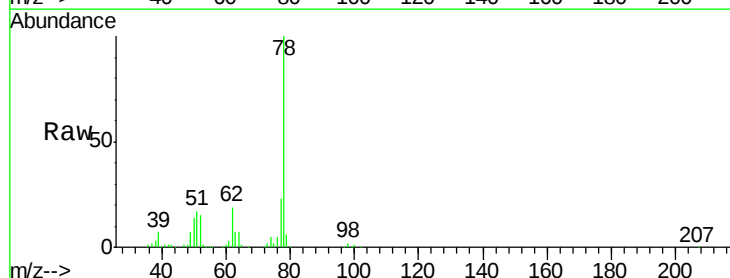
Manual Integrations  
APPROVED

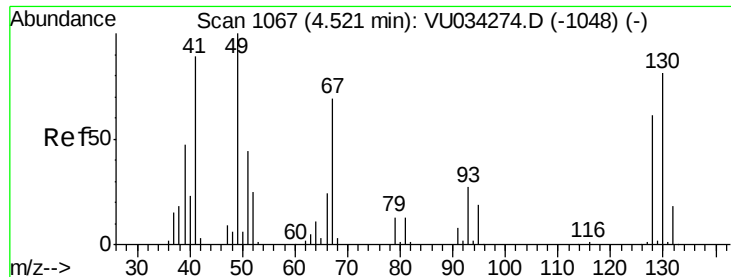
MMDadoda  
9/16/2019 11:16:37 AM



#40  
Benzene  
Concen: 23.151 ug/l  
RT: 5.37 min Scan# 1331  
Delta R.T. 0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.9  | 18.7  | 28.1  |





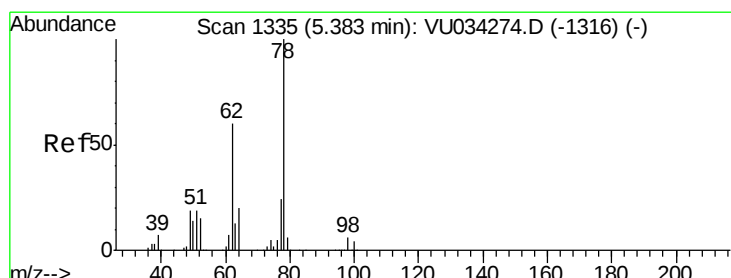
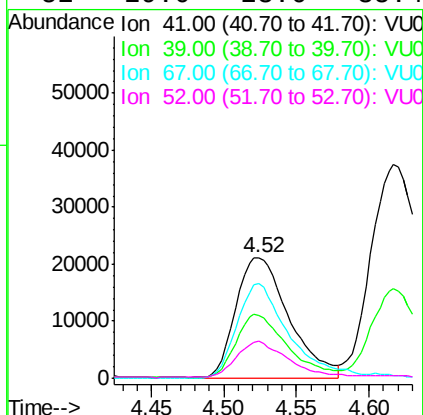
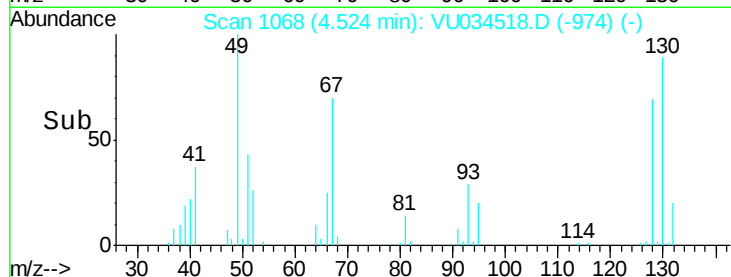
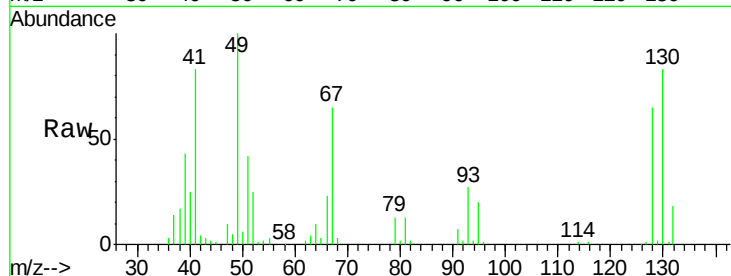
#41  
Methacrylonitrile  
Concen: 23.815 ug/l  
RT: 4.52 min Scan# 1068  
Delta R.T. 0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 41      | 100  |       |      |       |       |
| 39      | 52.1 | 41.0  | 61.4 |       |       |
| 67      | 77.1 | 62.4  | 93.6 |       |       |
| 52      | 29.0 | 23.6  | 35.4 |       |       |

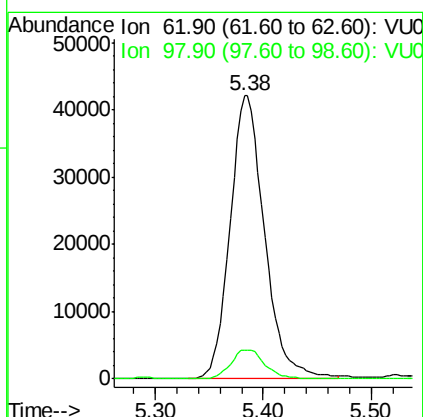
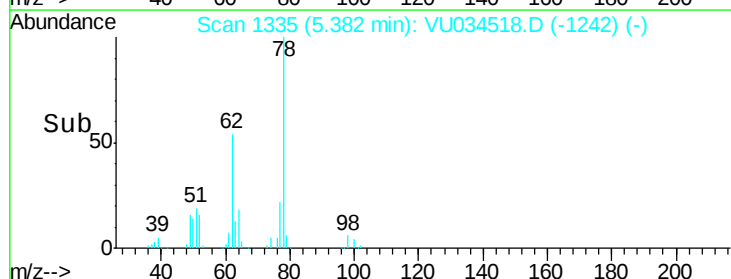
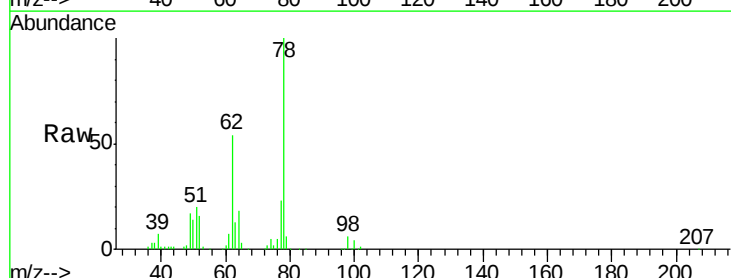
Manual Integrations  
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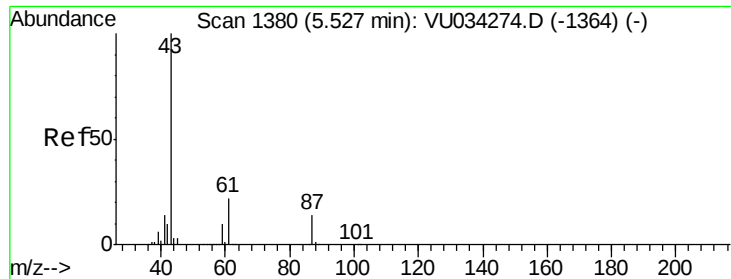
MMDadoda  
9/16/2019 11:16:37 AM



#42  
1,2-Dichloroethane  
Concen: 23.433 ug/l  
RT: 5.38 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 62      | 100  |       |      |       |       |
| 98      | 10.1 | 0.0   | 20.0 |       |       |





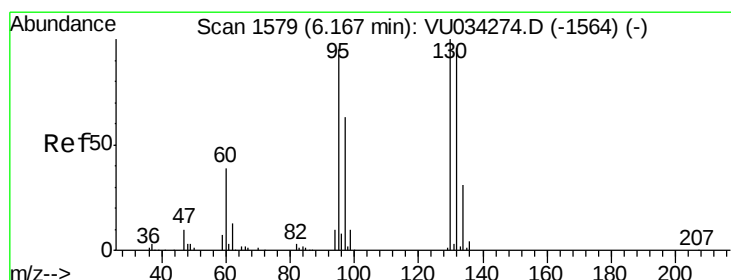
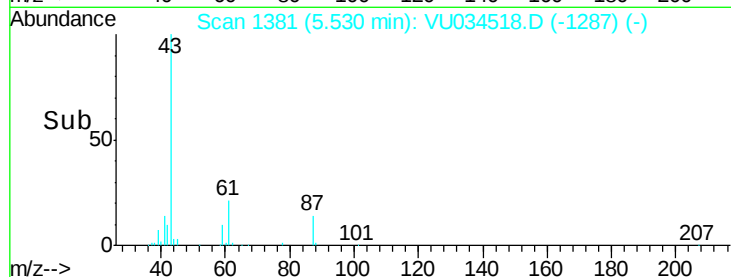
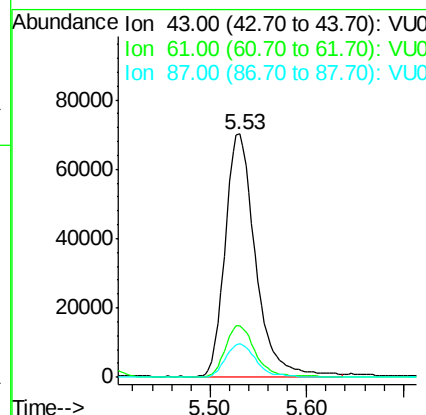
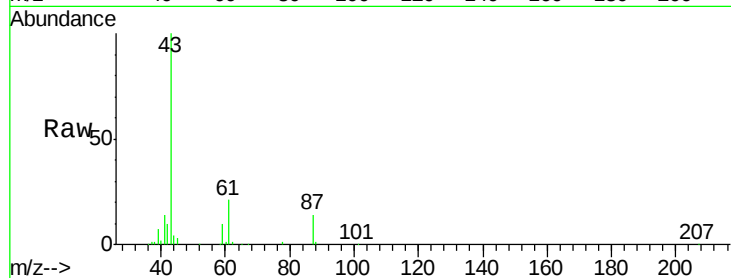
#43  
Isopropyl Acetate  
Concen: 23.264 ug/l  
RT: 5.53 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 21.3  | 17.1  | 25.7  |
| 87      | 14.1  | 11.1  | 16.7  |

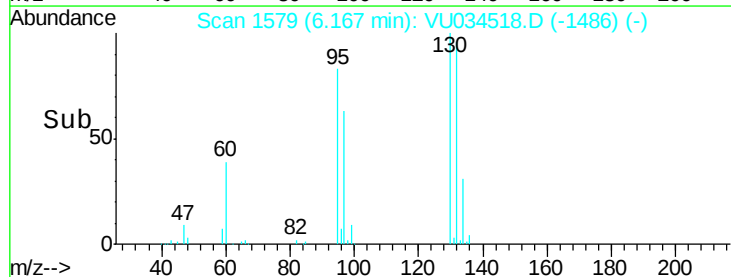
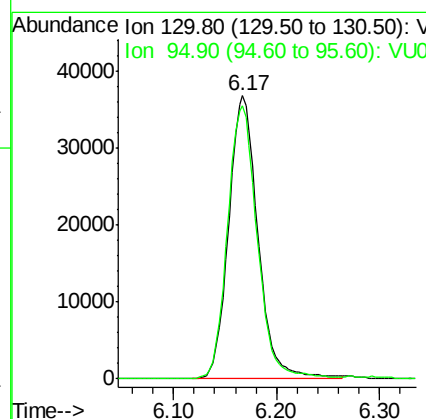
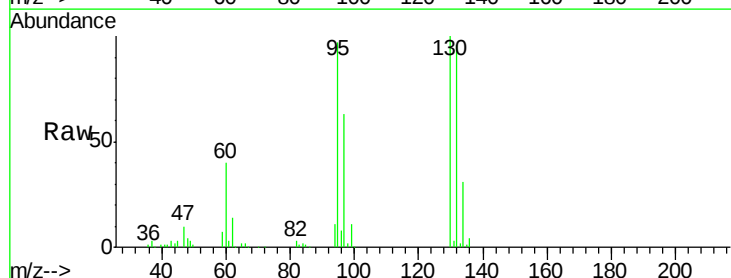
Manual Integrations  
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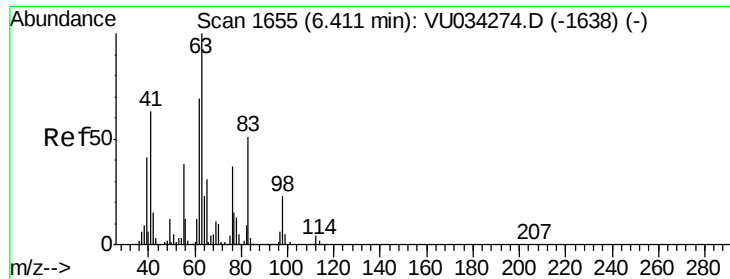
MMDadoda  
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#44  
Trichloroethene  
Concen: 22.891 ug/l  
RT: 6.17 min Scan# 1579  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 96.6  | 0.0   | 189.2 |





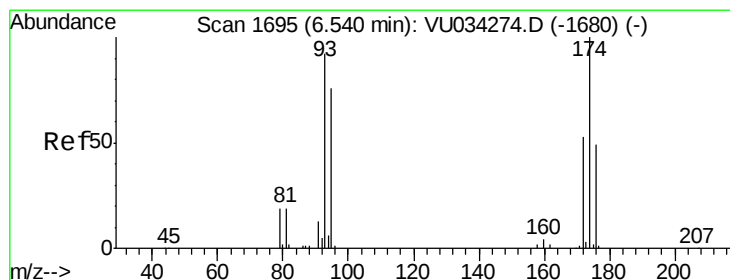
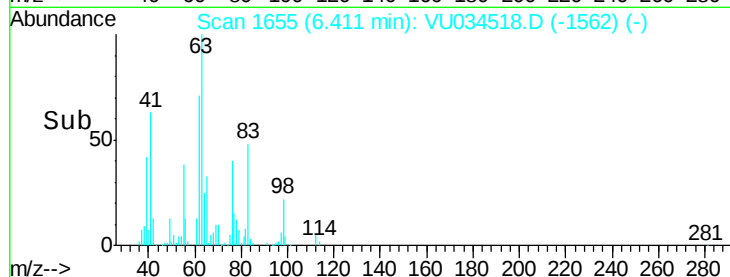
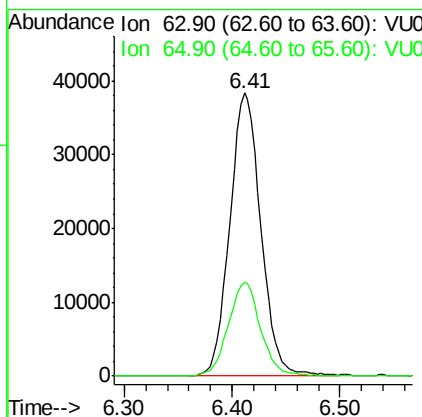
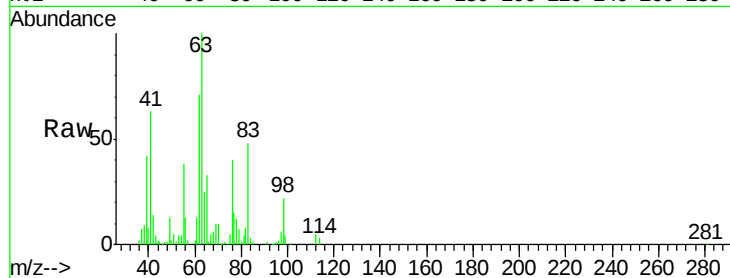
#45  
 1,2-Dichloropropane  
 Concen: 22.903 ug/l  
 RT: 6.41 min Scan# 1655  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

Tot Ion: 63 Resp: 77167  
 Ion Ratio Lower Upper  
 63 100  
 65 33.4 24.6 37.0

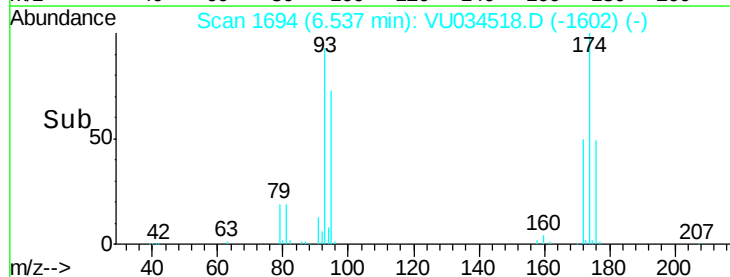
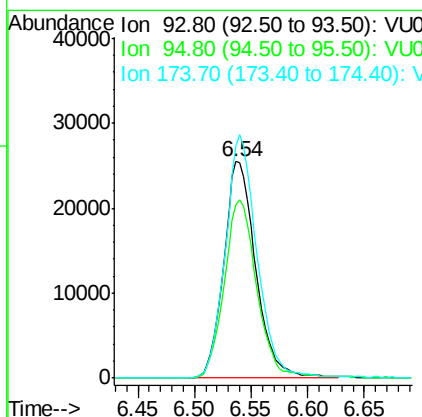
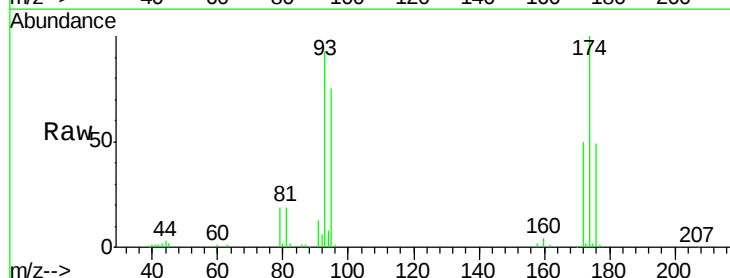
Manual Integrations  
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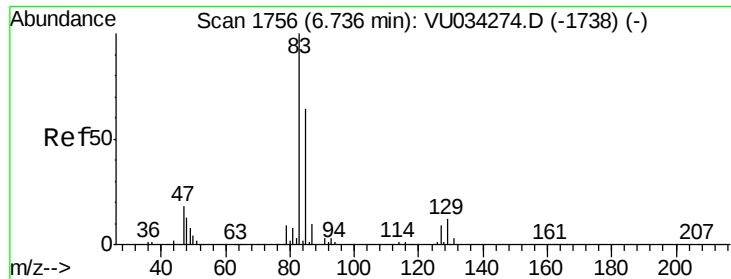
MMDadoda  
 9/16/2019 11:16:37 AM



#46  
 Dibromomethane  
 Concen: 23.679 ug/l  
 RT: 6.54 min Scan# 1694  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Tgt Ion: 93 Resp: 50080  
 Ion Ratio Lower Upper  
 93 100  
 95 83.8 66.5 99.7  
 174 110.8 87.8 131.6





#47

Bromodichloromethane

Concen: 23.665 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

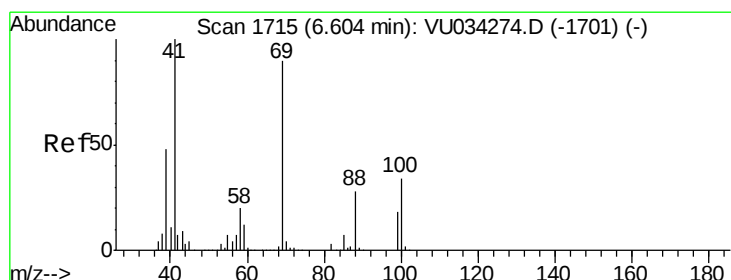
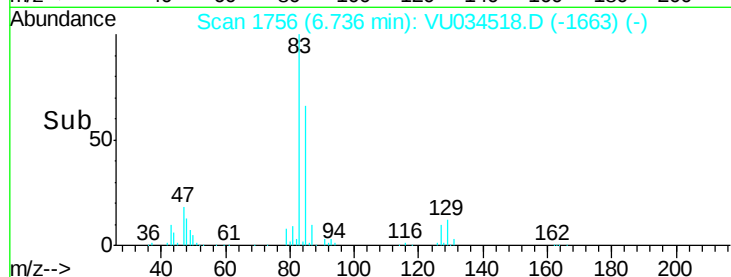
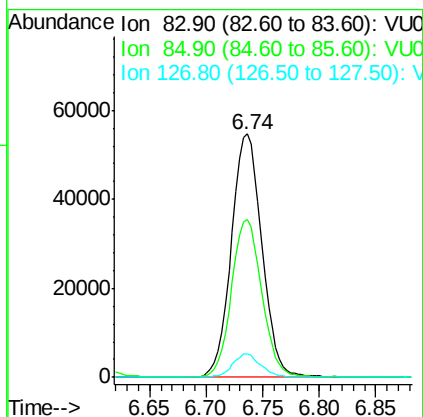
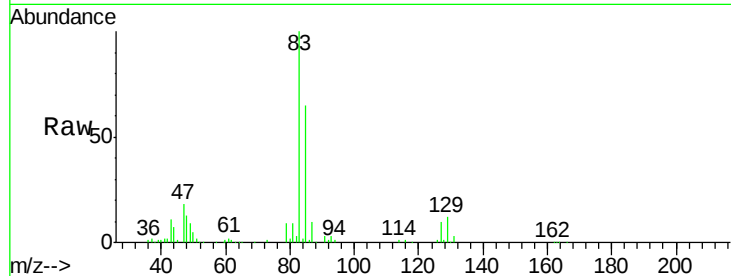
ClientSampleId :

VU0912WBSD02

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 103021 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.7  | 51.1  | 76.7   |
| 127      | 9.8   | 7.2   | 10.8   |

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#48

Methyl methacrylate

Concen: 22.082 ug/l

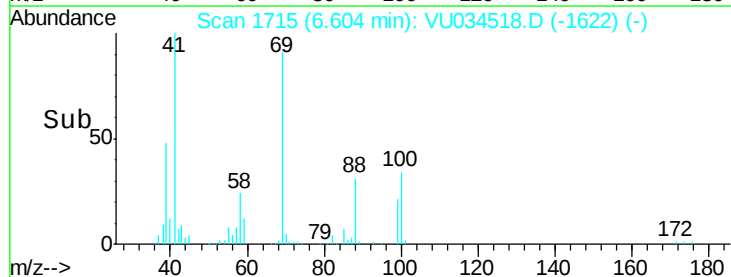
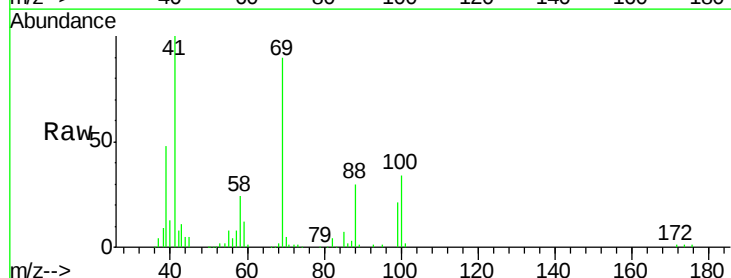
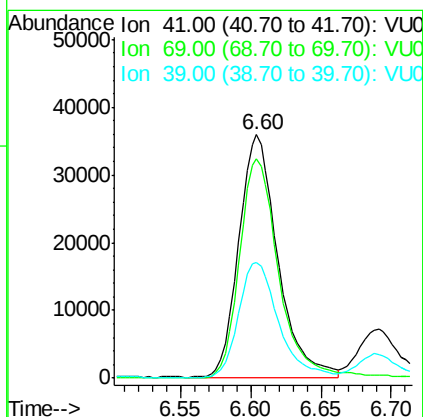
RT: 6.60 min Scan# 1715

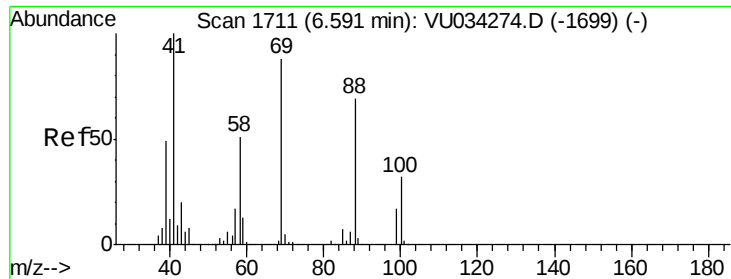
Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 69092 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 92.5  | 72.8  | 109.2 |
| 39       | 49.6  | 38.6  | 58.0  |





#49

1,4-Dioxane

Concen: 460.318 ug/l

RT: 6.59 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

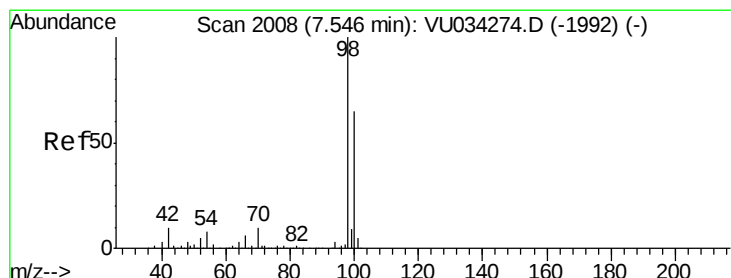
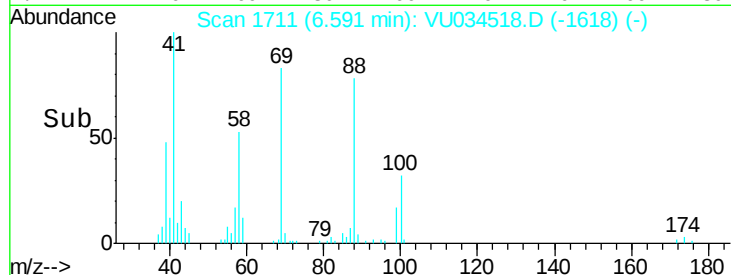
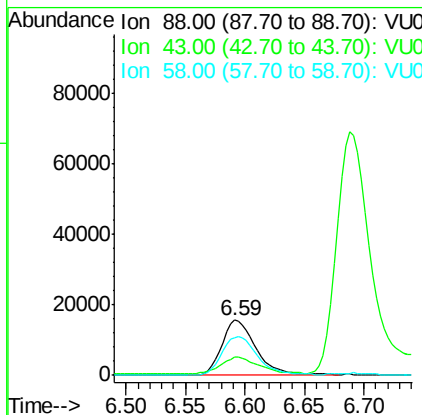
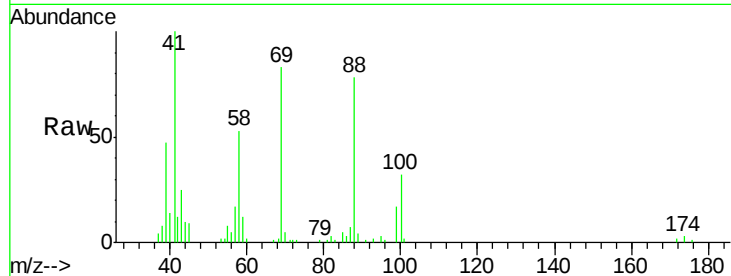
ClientSampleId :

VU0912WBSD02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 88    | Resp: | 31451 |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 33.0  | 23.8  | 35.6  |
| 58        | 73.5  | 58.4  | 87.6  |

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#50

Toluene-d8

Concen: 54.519 ug/l

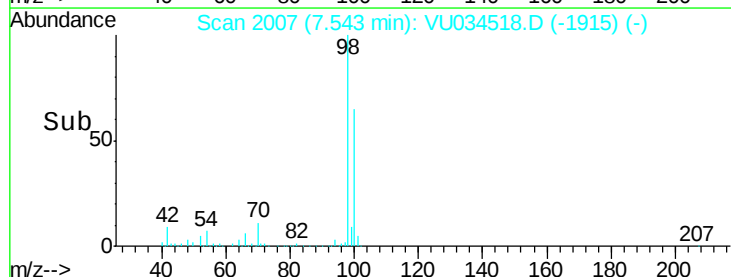
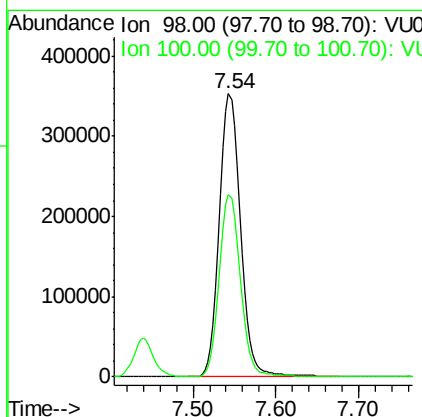
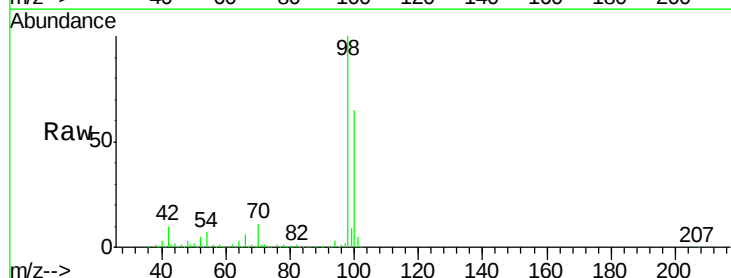
RT: 7.54 min Scan# 2007

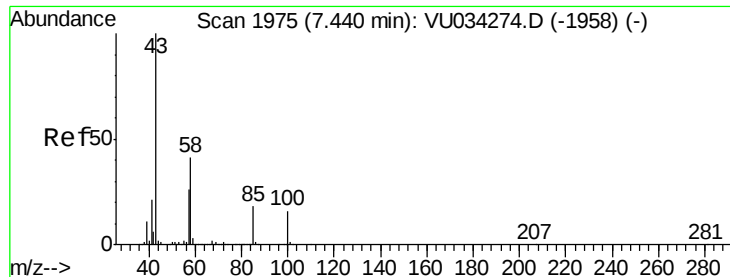
Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 627708 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 63.6  | 51.7  | 77.5   |





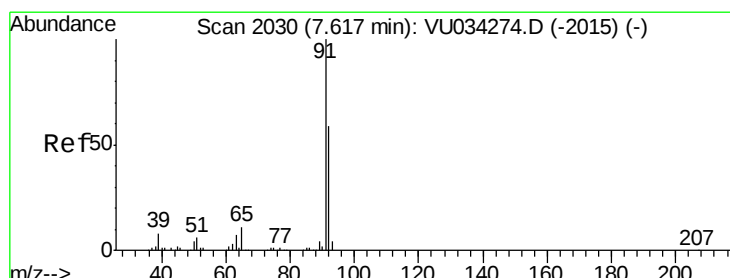
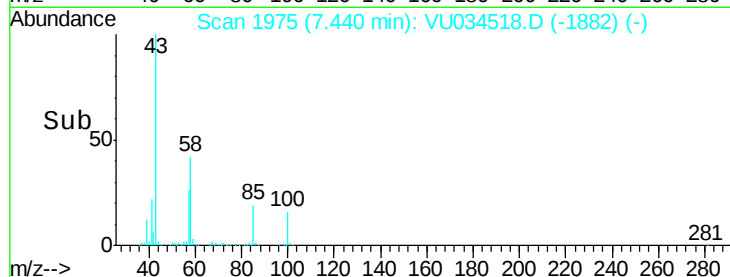
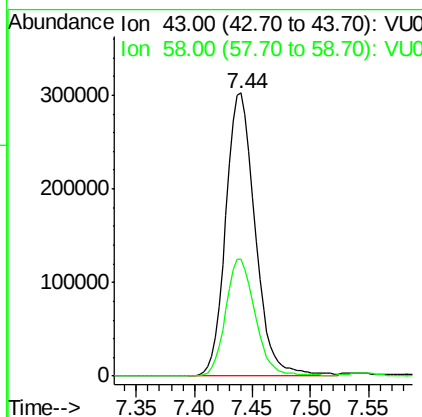
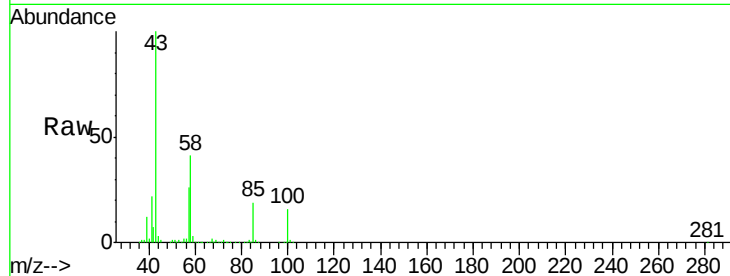
#51  
4-Methyl-2-Pentanone  
Concen: 116.951 ug/l  
RT: 7.44 min Scan# 1975  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.5  | 33.0  | 49.4  |

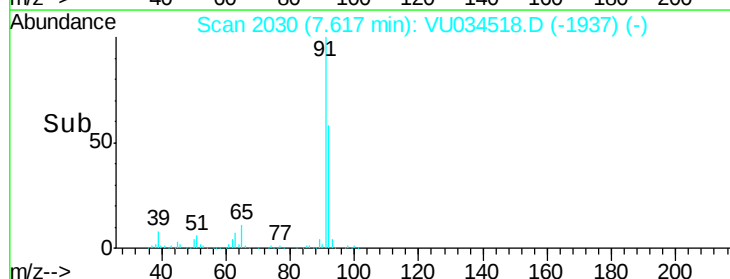
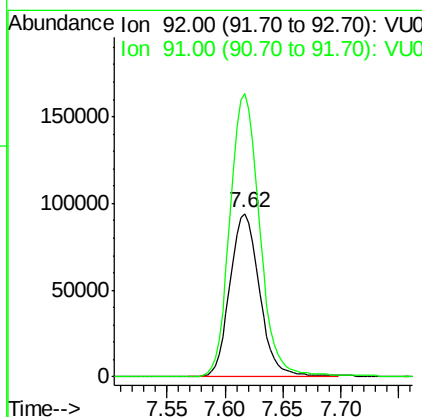
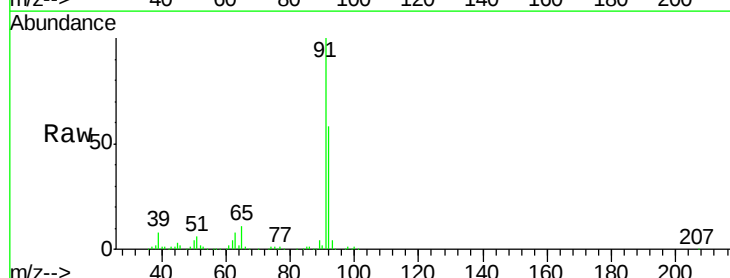
Manual Integrations  
APPROVED

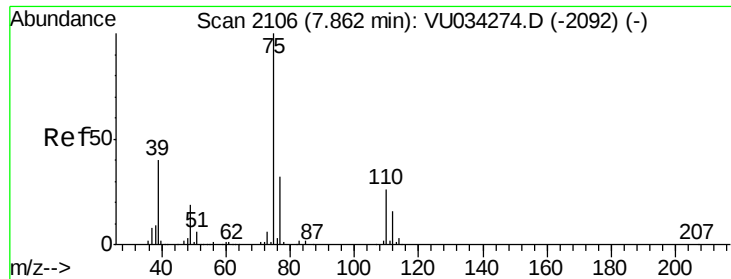
MMDadoda  
9/16/2019 11:16:37 AM



#52  
Toluene  
Concen: 23.166 ug/l  
RT: 7.62 min Scan# 2030  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 174.0 | 136.6 | 205.0 |





#53

t-1,3-Dichloropropene

Concen: 22.677 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 75 Resp: 102337

Ion Ratio Lower Upper

75 100

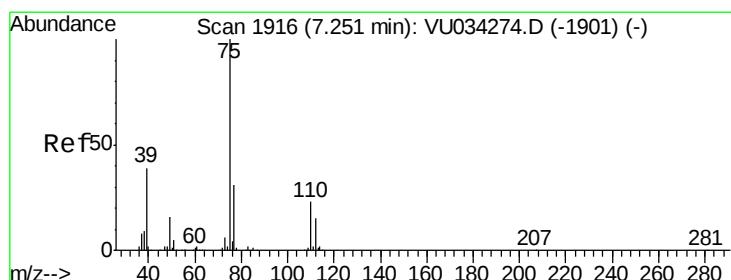
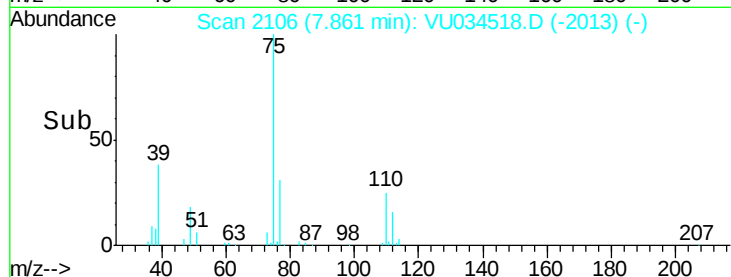
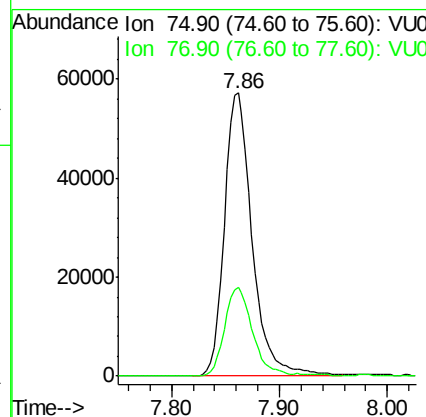
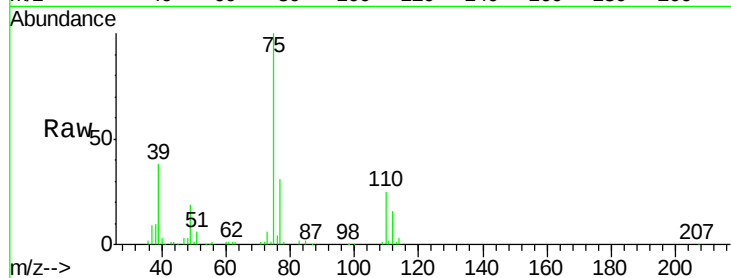
77 31.2 25.7 38.5

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#54

cis-1,3-Dichloropropene

Concen: 23.519 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

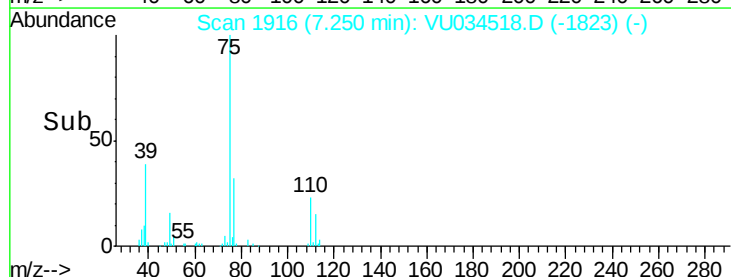
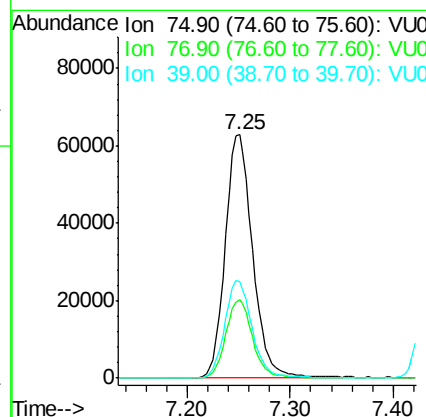
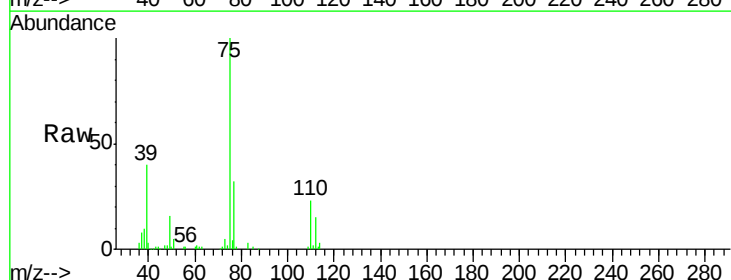
Tgt Ion: 75 Resp: 116491

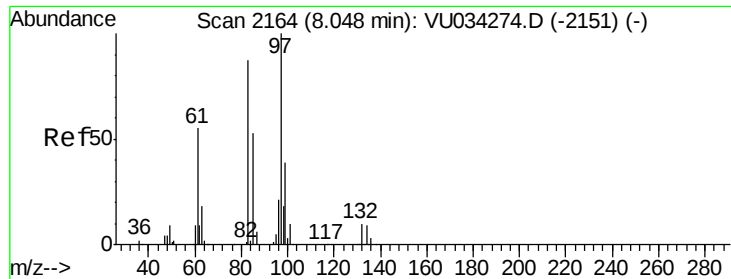
Ion Ratio Lower Upper

75 100

77 32.2 25.1 37.7

39 39.7 31.2 46.8





#55

1,1,2-Trichloroethane

Concen: 24.529 ug/l

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 97 Resp: 80525

Ion Ratio Lower Upper

97 100

83 88.3 69.0 103.6

85 53.9 44.2 66.2

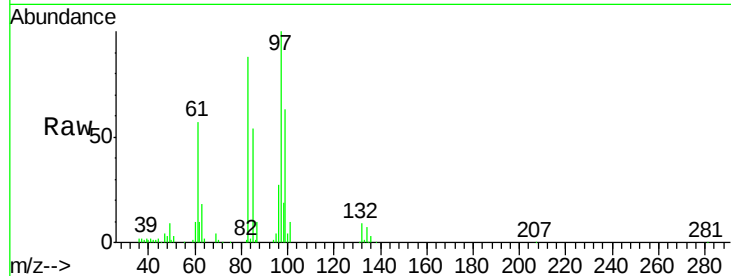
99 62.5 49.4 74.0

Manual Integrations

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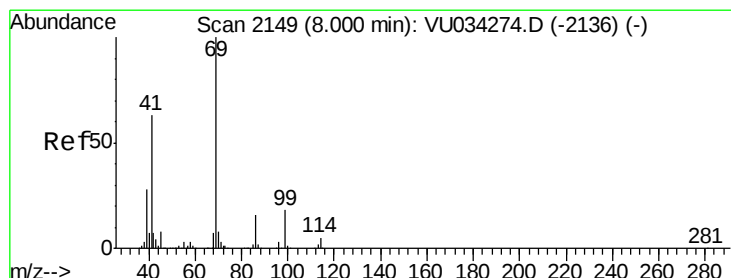
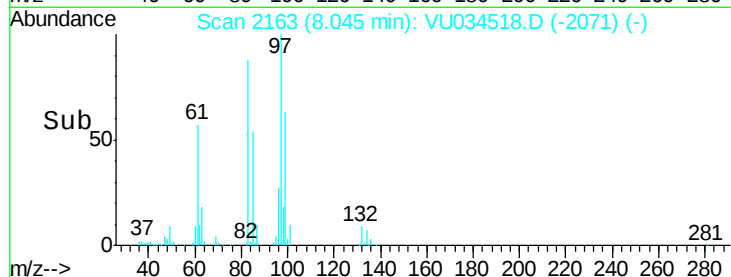
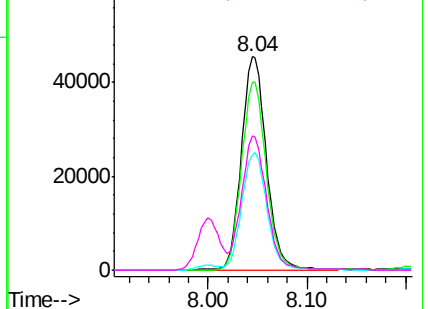


Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0



#56

Ethyl methacrylate

Concen: 22.395 ug/l

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

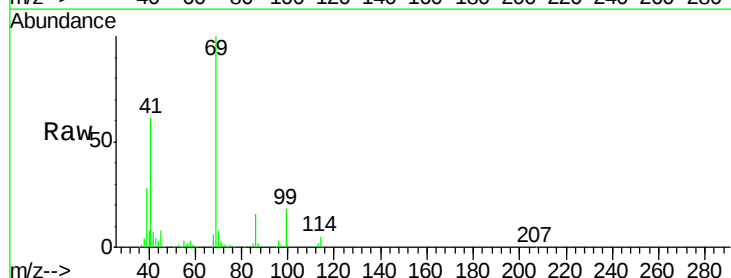
Tgt Ion: 69 Resp: 102670

Ion Ratio Lower Upper

69 100

41 61.3 49.5 74.3

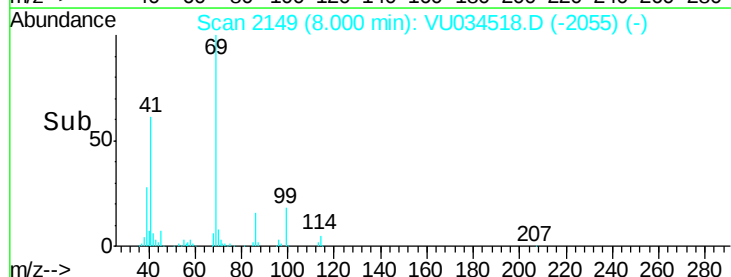
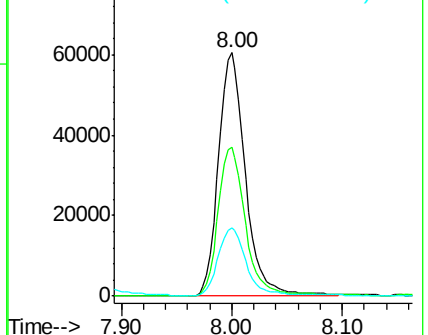
39 28.3 22.5 33.7



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 23.379 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 76 Resp: 124977

Ion Ratio Lower Upper

76 100

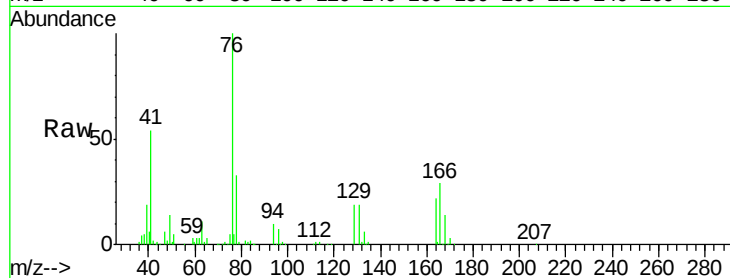
78 32.4 25.4 38.2

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Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.22

80000

60000

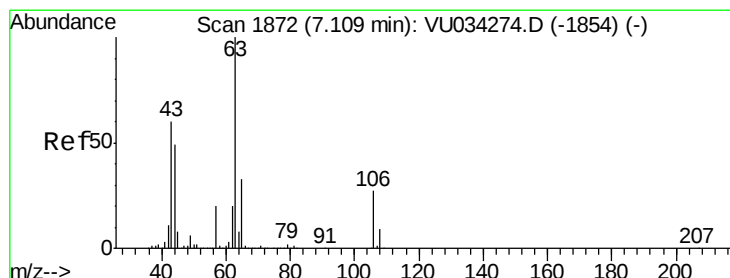
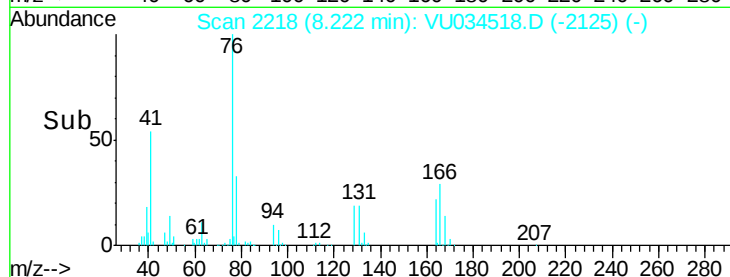
40000

20000

0

8.15 8.20 8.25 8.30 8.35

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 101.065 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034518.D

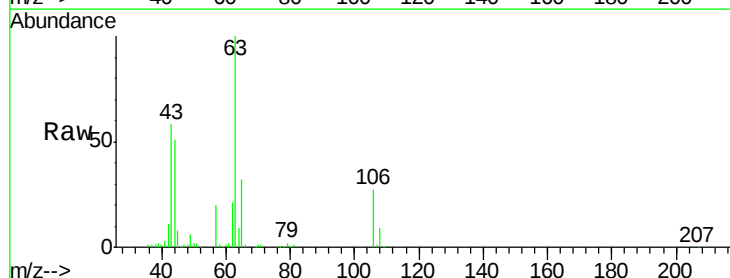
Acq: 12 Sep 2019 14:15

Tgt Ion: 63 Resp: 152646

Ion Ratio Lower Upper

63 100

106 27.3 21.6 32.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

7.11

100000

80000

60000

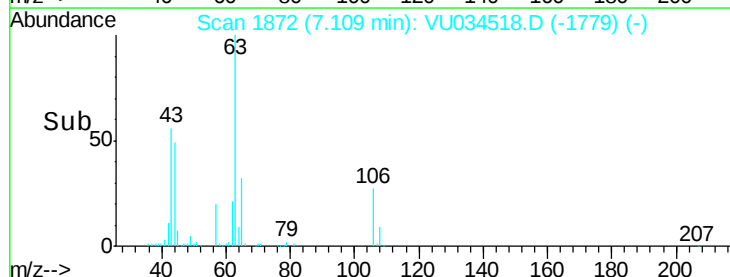
40000

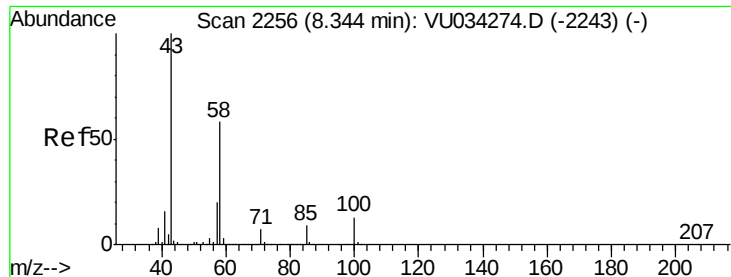
20000

0

7.00 7.10 7.20

Time-->





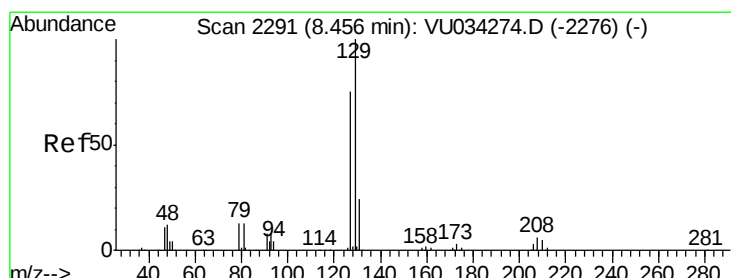
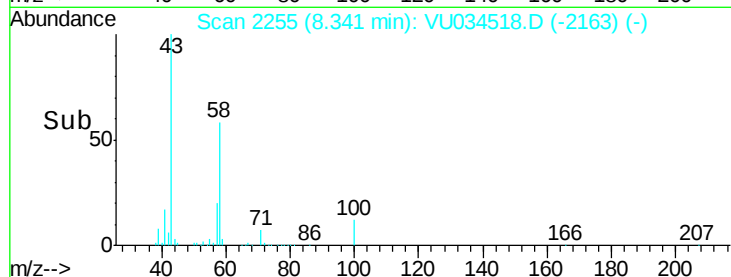
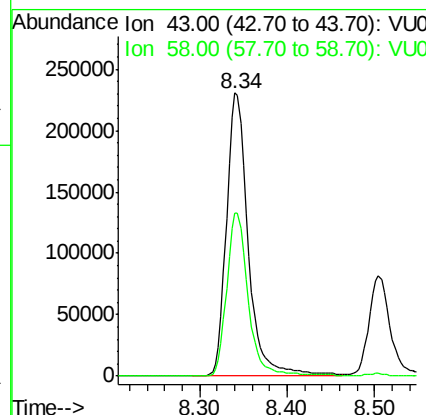
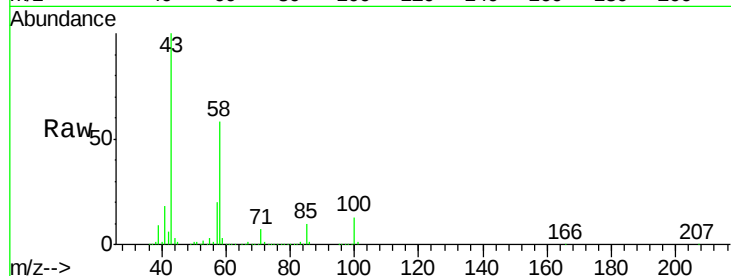
#59  
2-Hexanone  
Concen: 117.134 ug/l  
RT: 8.34 min Scan# 2255  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 57.4  | 28.8  | 86.5  |

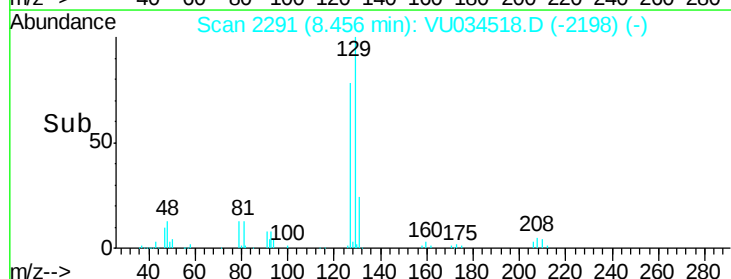
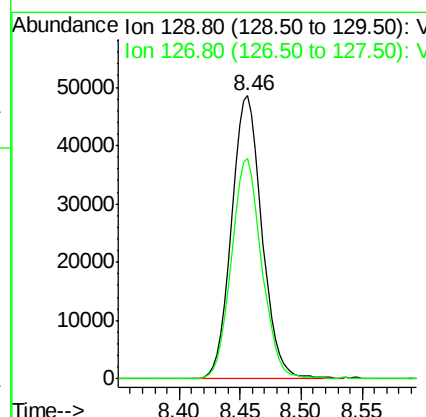
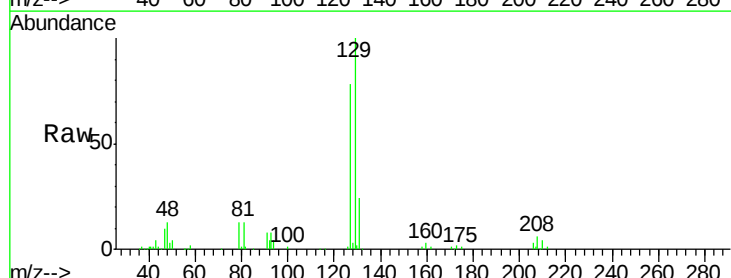
Manual Integrations  
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#60  
Dibromochloromethane  
Concen: 24.045 ug/l  
RT: 8.46 min Scan# 2291  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 77.6  | 37.9  | 113.7 |





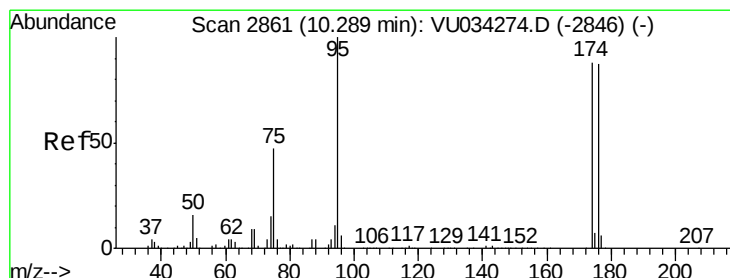
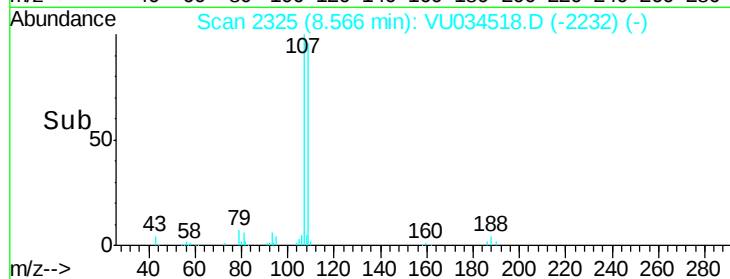
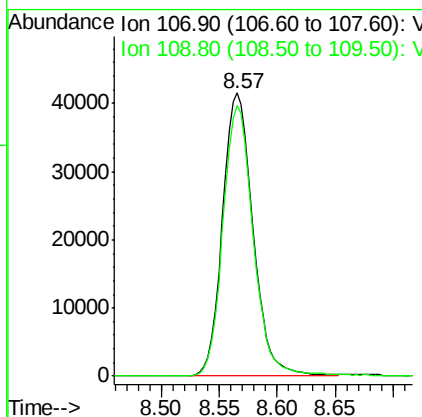
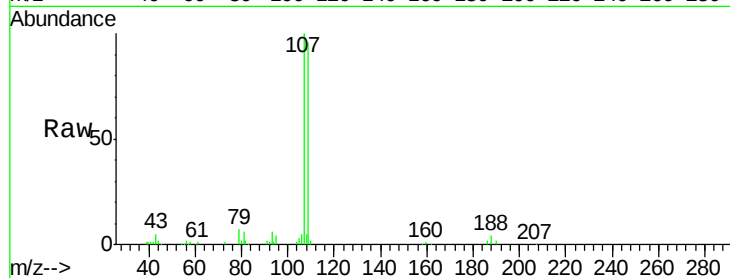
#61  
 1,2-Dibromoethane  
 Concen: 23.497 ug/l  
 RT: 8.57 min Scan# 2325  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 95.4  | 75.0  | 112.6 |

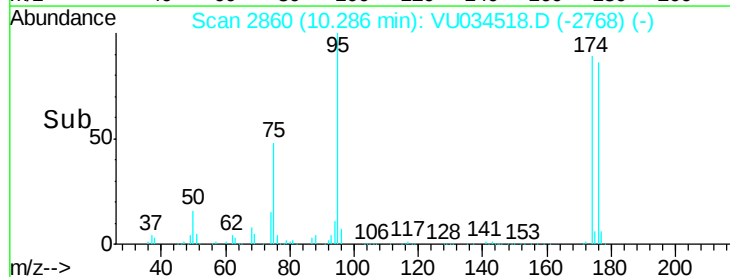
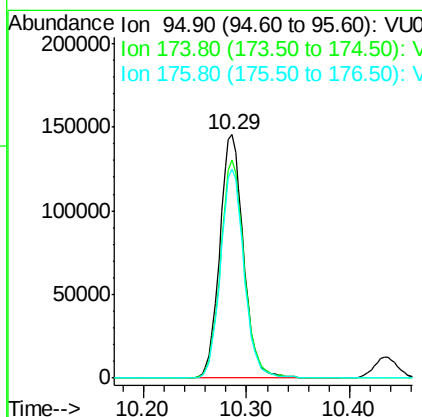
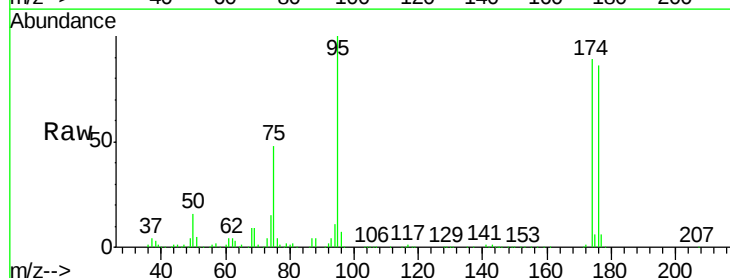
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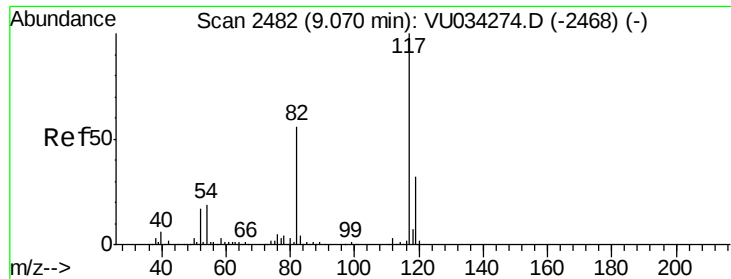
MMDadoda  
 9/16/2019 11:16:37 AM



#62  
 4-Bromofluorobenzene  
 Concen: 52.408 ug/l  
 RT: 10.29 min Scan# 2860  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 89.5  | 0.0   | 175.2 |
| 176     | 85.1  | 0.0   | 168.0 |





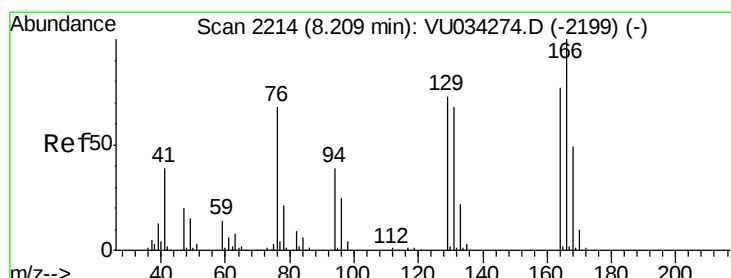
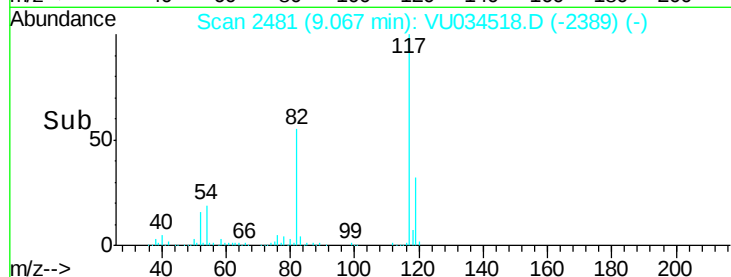
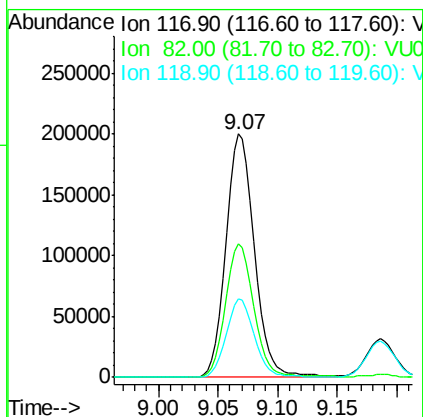
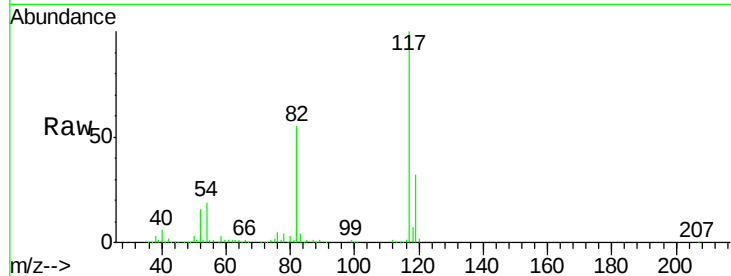
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.07 min Scan# 2481  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 332901 |       |       |
| 82      | 54.8  |        | 44.6  | 67.0  |
| 119     | 32.1  |        | 25.9  | 38.9  |

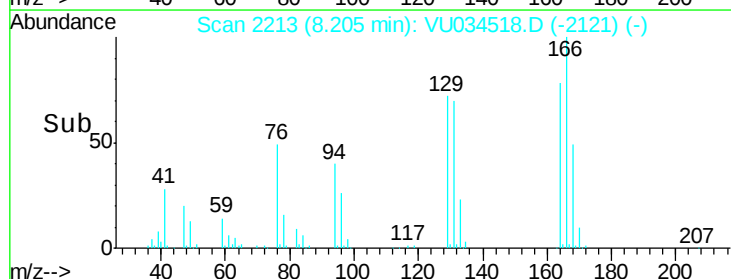
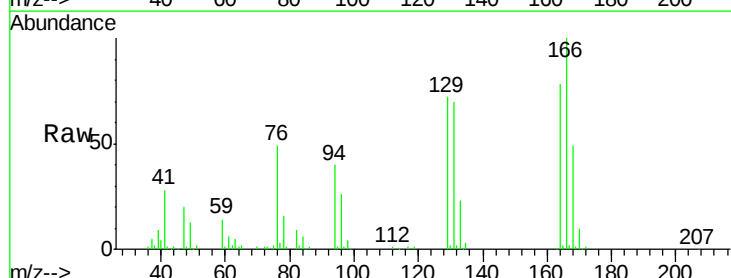
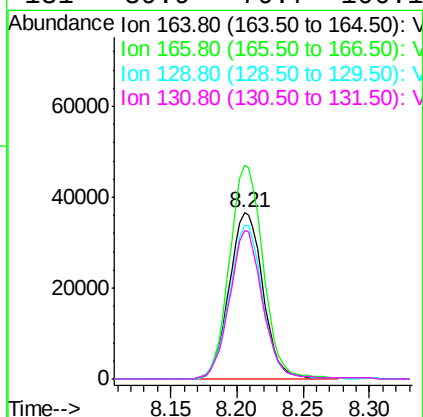
Manual Integrations  
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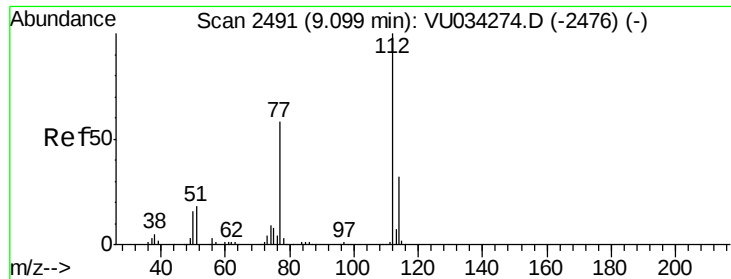
MMDadoda  
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#64  
Tetrachloroethene  
Concen: 22.431 ug/l  
RT: 8.21 min Scan# 2213  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 64782 |       |       |
| 166     | 128.8 |       | 103.7 | 155.5 |
| 129     | 92.7  |       | 75.8  | 113.8 |
| 131     | 89.9  |       | 70.7  | 106.1 |





#65

Chlorobenzene

Concen: 22.847 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion:112 Resp: 192965

Ion Ratio Lower Upper

112 100

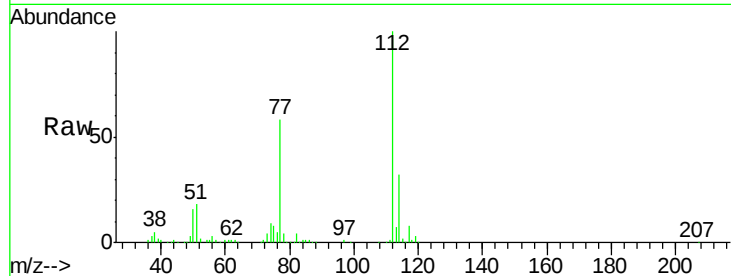
114 32.4 25.9 38.9

Manual Integrations

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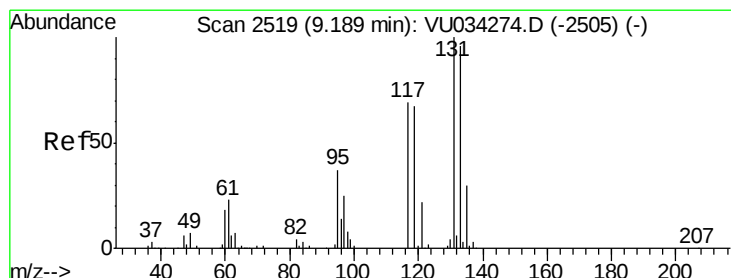
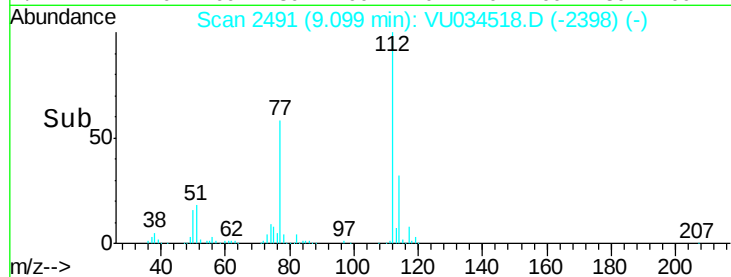
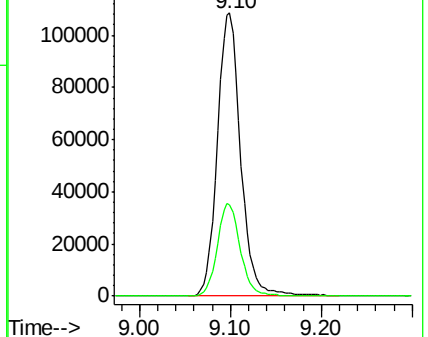
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 23.194 ug/l

RT: 9.19 min Scan# 2518

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

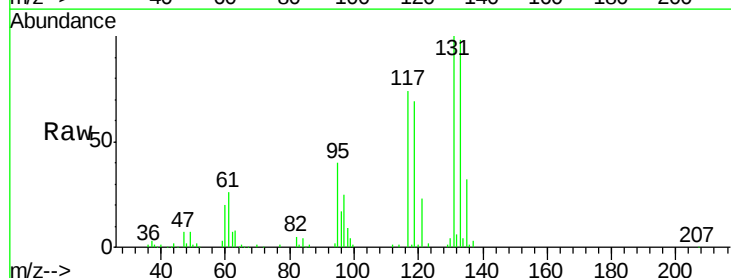
Tgt Ion:131 Resp: 74760

Ion Ratio Lower Upper

131 100

133 96.4 47.9 143.7

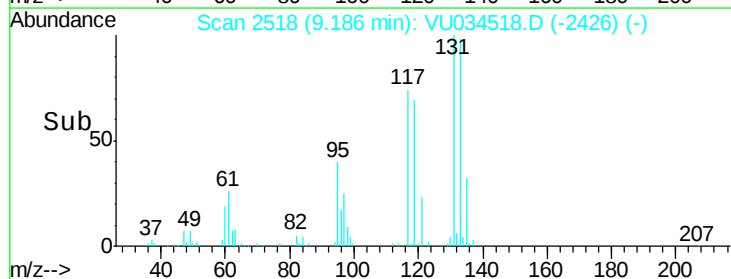
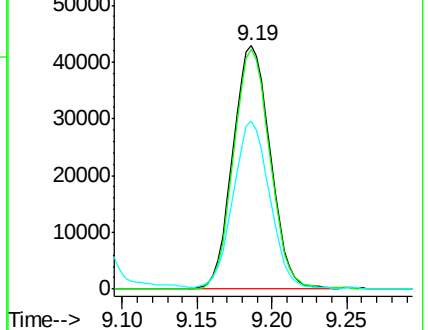
119 67.2 33.1 99.5

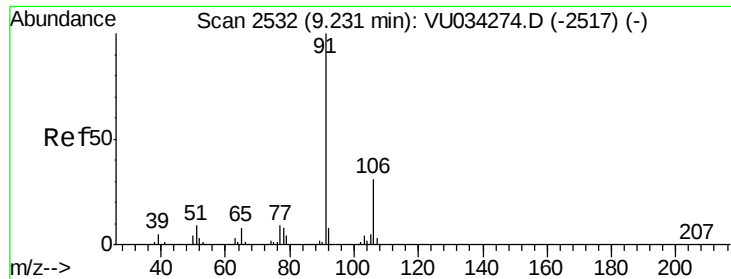


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 22.208 ug/l

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 91 Resp: 306675

Ion Ratio Lower Upper

91 100

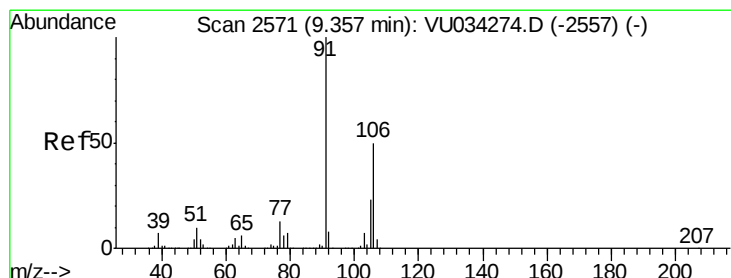
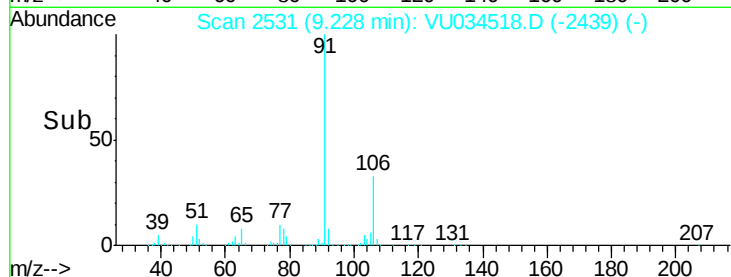
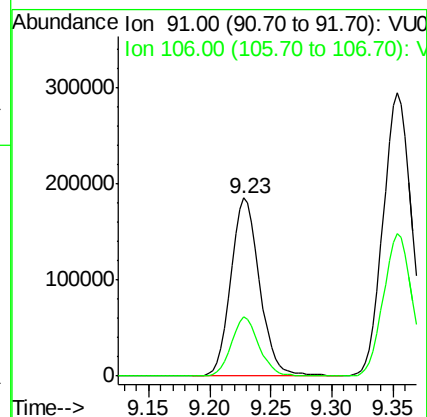
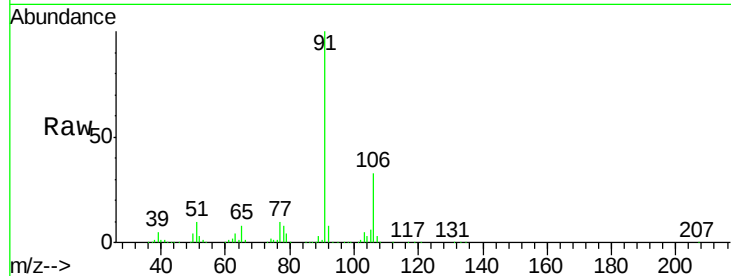
106 33.1 24.8 37.2

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#68

m/p-Xylenes

Concen: 47.499 ug/l

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034518.D

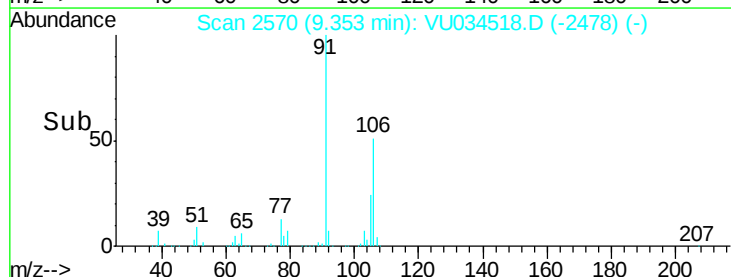
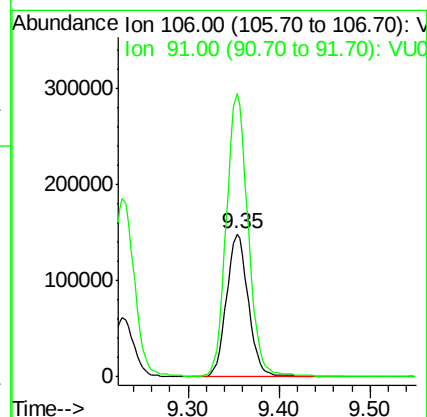
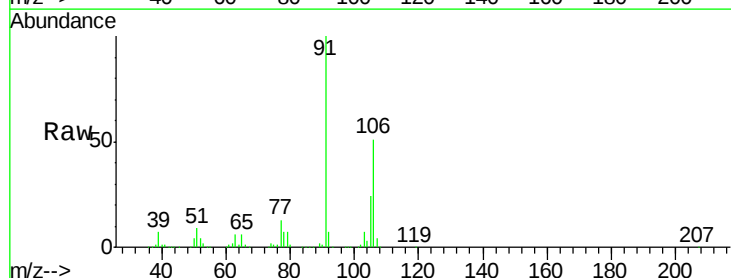
Acq: 12 Sep 2019 14:15

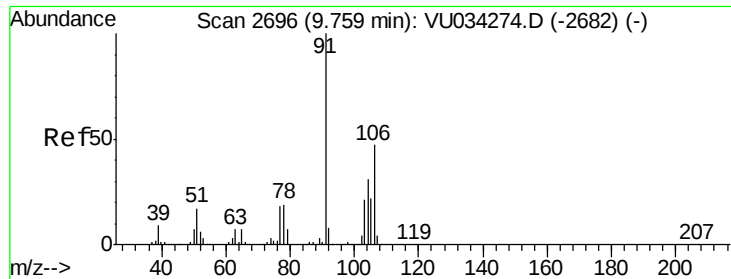
Tgt Ion: 106 Resp: 247001

Ion Ratio Lower Upper

106 100

91 198.4 160.1 240.1





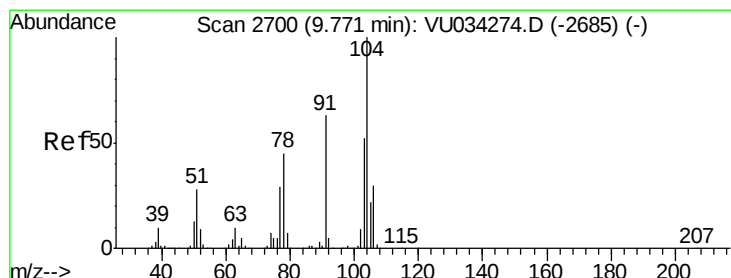
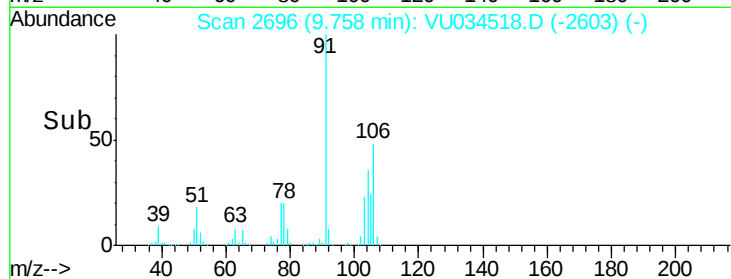
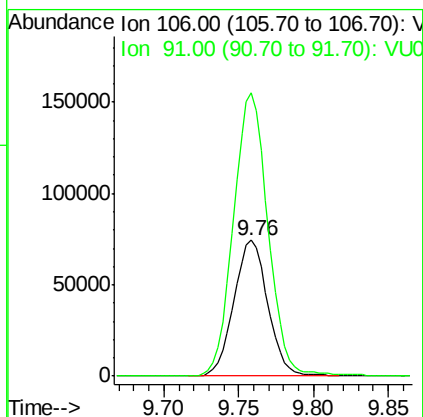
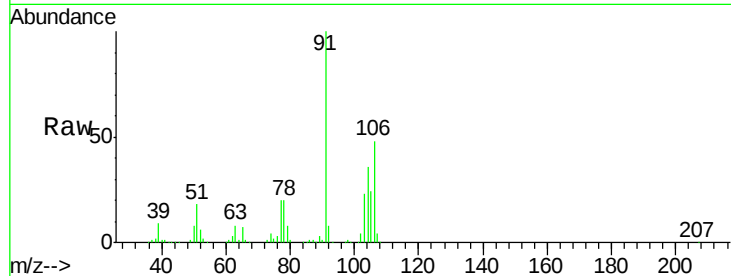
#69  
o-Xylene  
Concen: 23.155 ug/l  
RT: 9.76 min Scan# 2696  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 106     | 106 | 100   | 117754 |       |       |
| 91      | 91  | 212.2 | 105.1  | 315.3 |       |

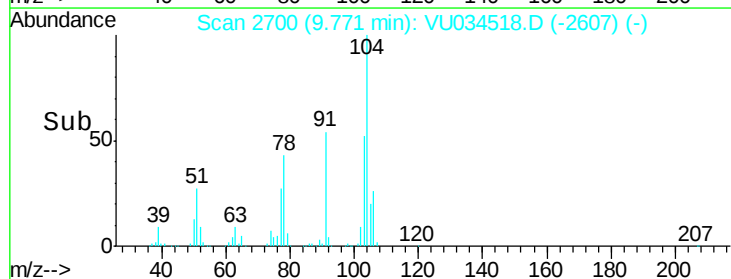
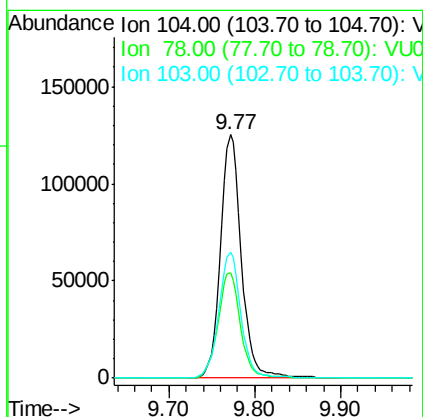
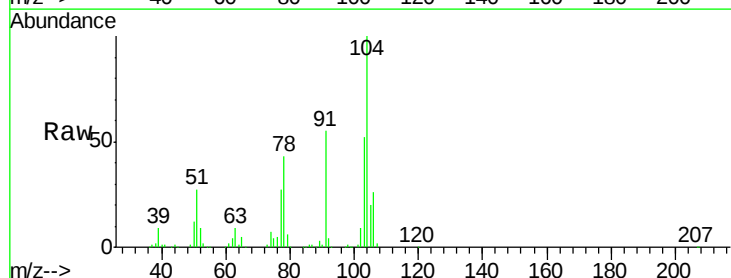
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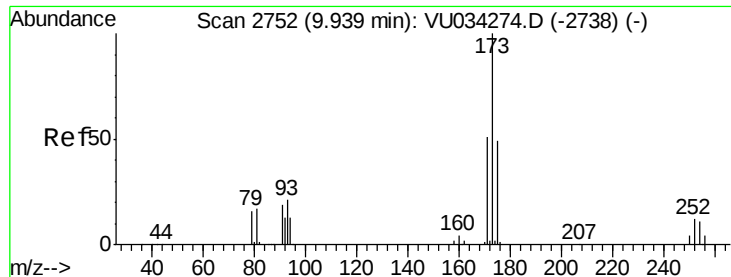
MMDadoda  
9/16/2019 11:16:37 AM



#70  
Styrene  
Concen: 23.807 ug/l  
RT: 9.77 min Scan# 2700  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 104     | 104 | 100   | 212268 |       |       |
| 78      | 78  | 46.6  | 38.6   | 57.8  |       |
| 103     | 103 | 54.1  | 44.2   | 66.4  |       |





#71

Bromoform

Concen: 23.840 ug/l

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

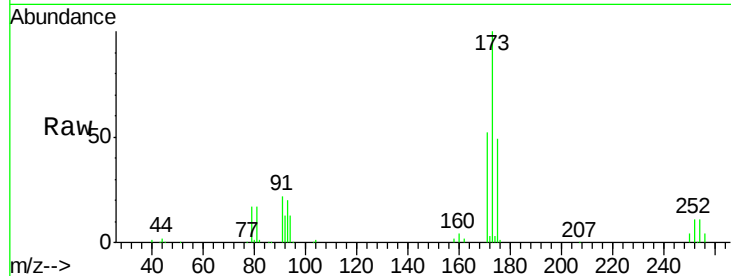
ClientSampleId :

VU0912WBSD02

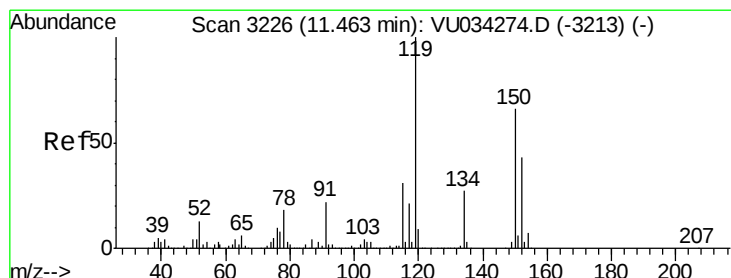
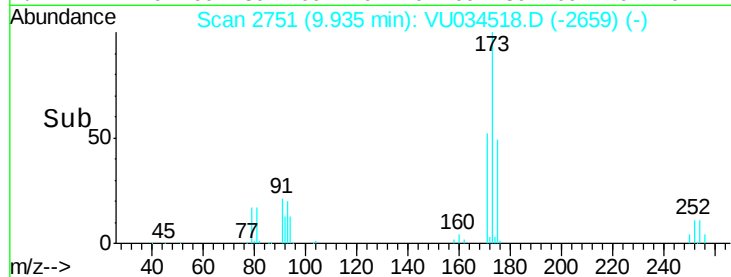
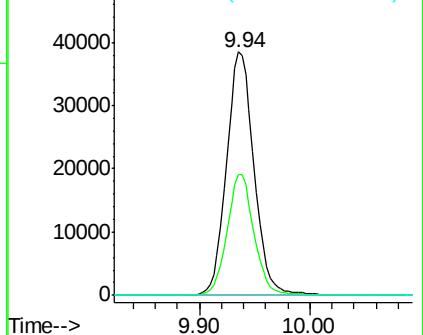
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 66595 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 48.5  | 24.4  | 73.2  |
| 254       | 0.0   | 0.0   | 0.0   |

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Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

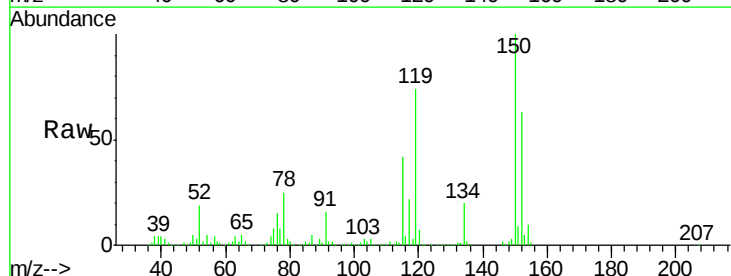
RT: 11.46 min Scan# 3225

Delta R.T. -0.00 min

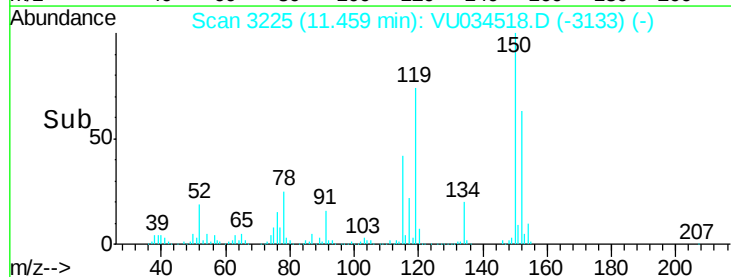
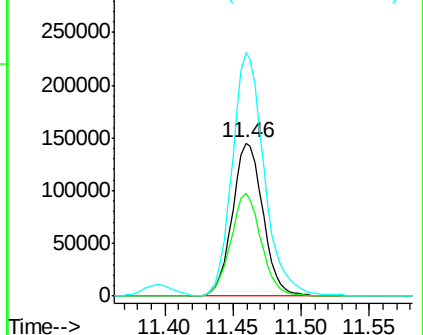
Lab File: VU034518.D

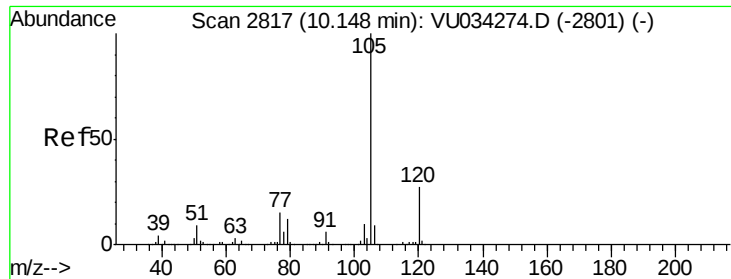
Acq: 12 Sep 2019 14:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 226561 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 67.1  | 39.1  | 117.3  |
| 150       | 165.3 | 0.0   | 345.4  |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.275 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 105 Resp: 328427

Ion Ratio Lower Upper

105 100

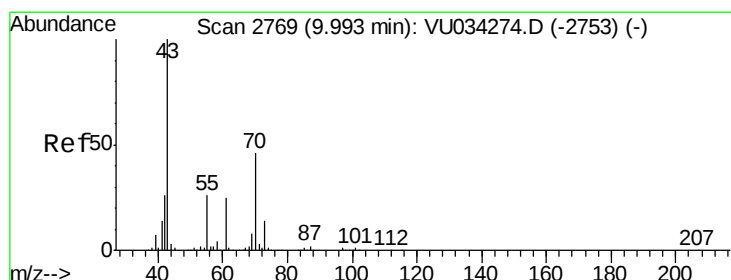
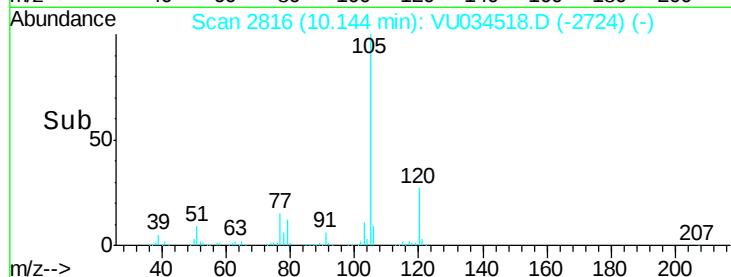
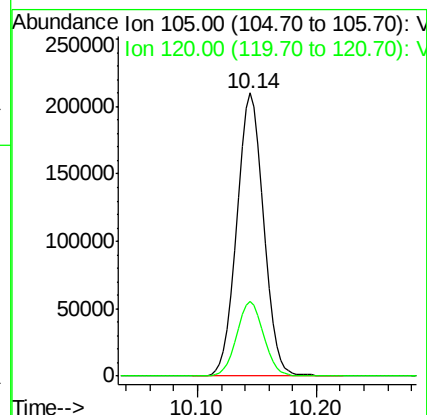
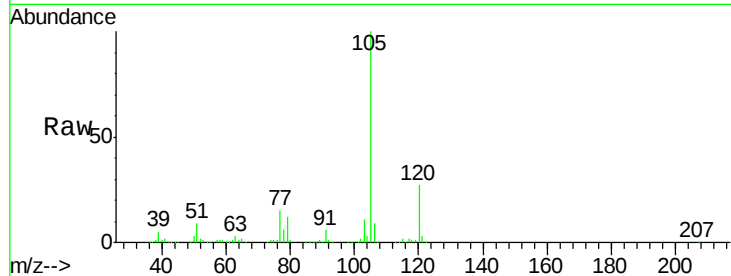
120 26.7 13.4 40.2

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#74

N-ethyl acetate

Concen: 21.353 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Tgt Ion: 43 Resp: 126728

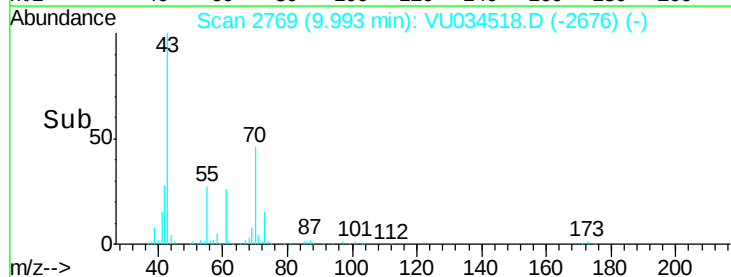
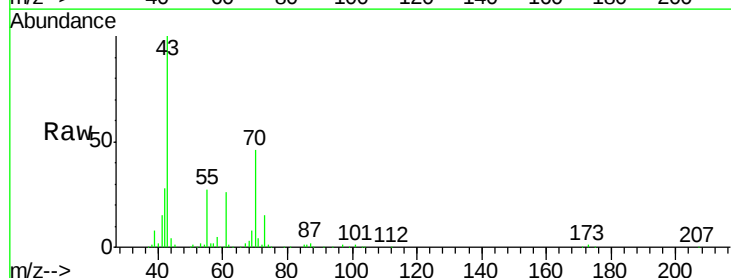
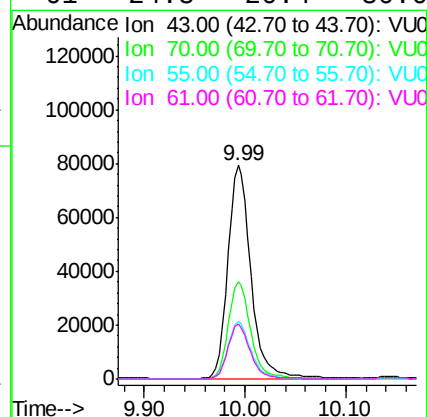
Ion Ratio Lower Upper

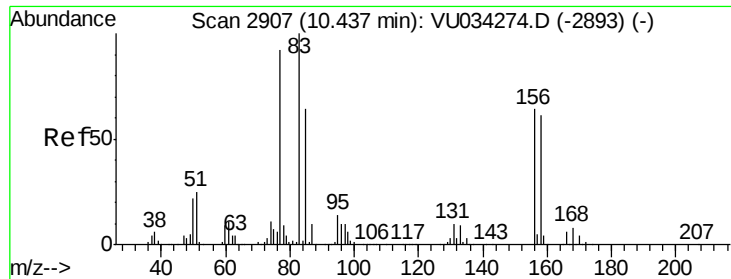
43 100

70 44.9 36.4 54.6

55 27.2 21.2 31.8

61 24.8 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.601 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 83 Resp: 134883

Ion Ratio Lower Upper

83 100

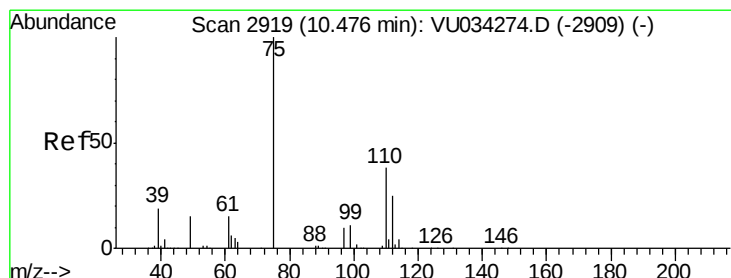
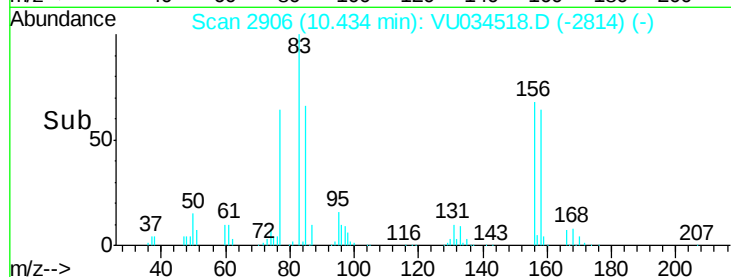
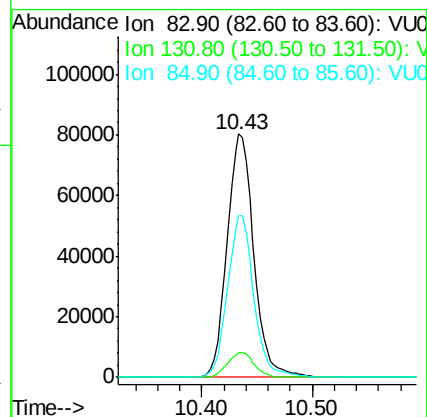
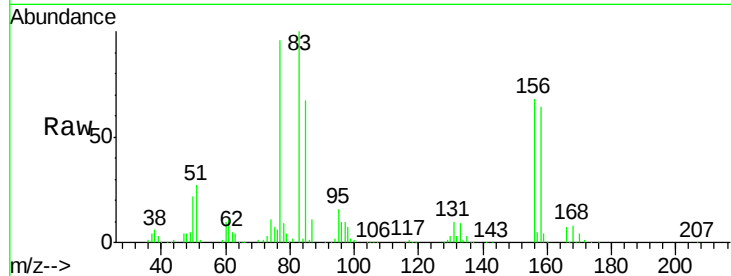
131 10.1 5.1 15.2

85 65.5 32.0 96.2

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#76

1,2,3-Trichloropropane

Concen: 21.684 ug/l m

RT: 10.47 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VU034518.D

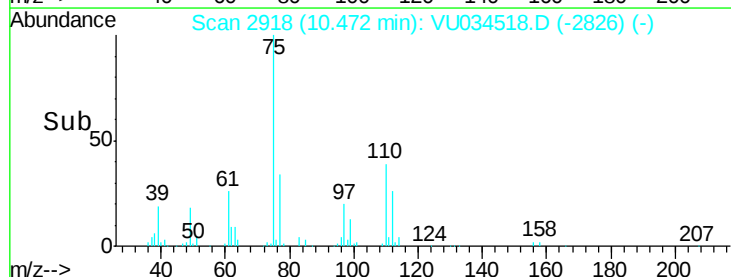
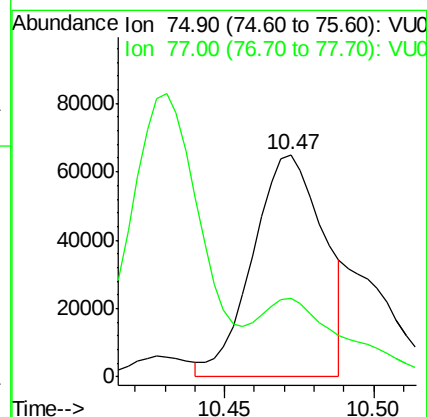
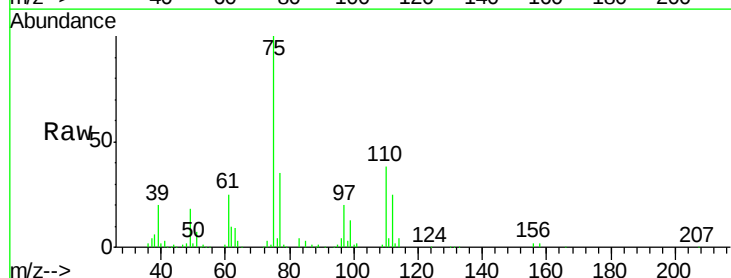
Acq: 12 Sep 2019 14:15

Tgt Ion: 75 Resp: 107235

Ion Ratio Lower Upper

75 100

77 44.0 20.8 62.2





#77

Bromobenzene

Concen: 23.085 ug/l

RT: 10.43 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion:156 Resp: 95170

Ion Ratio Lower Upper

156 100

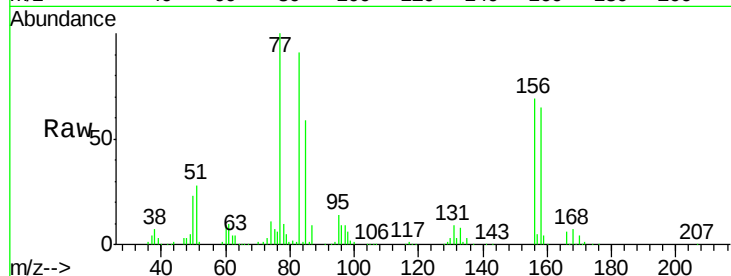
77 144.1 75.6 226.9

158 94.5 48.2 144.6

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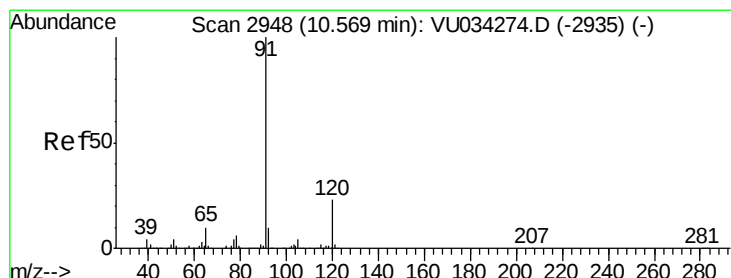
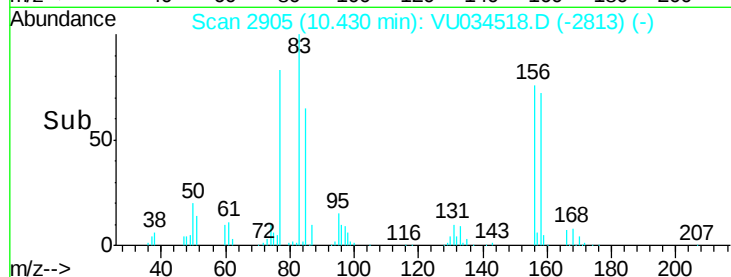
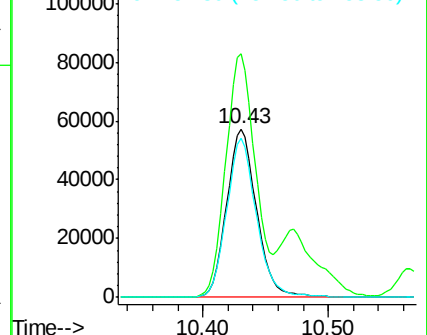
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.210 ug/l

RT: 10.57 min Scan# 2947

Delta R.T. -0.00 min

Lab File: VU034518.D

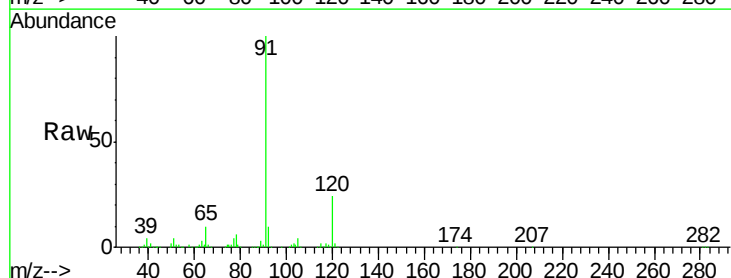
Acq: 12 Sep 2019 14:15

Tgt Ion: 91 Resp: 378183

Ion Ratio Lower Upper

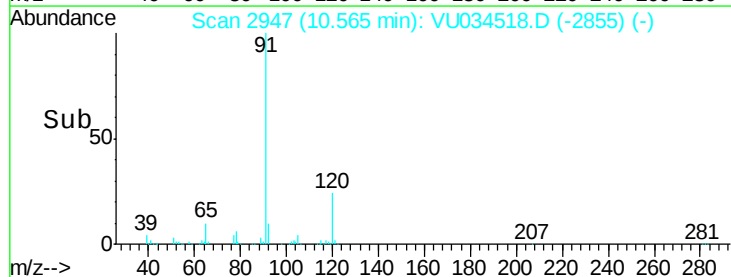
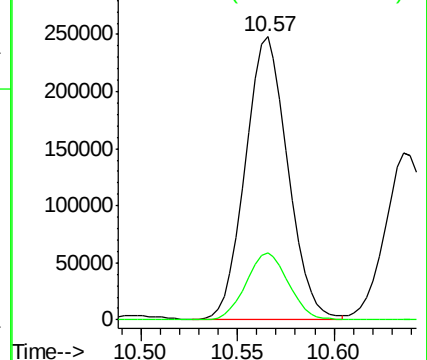
91 100

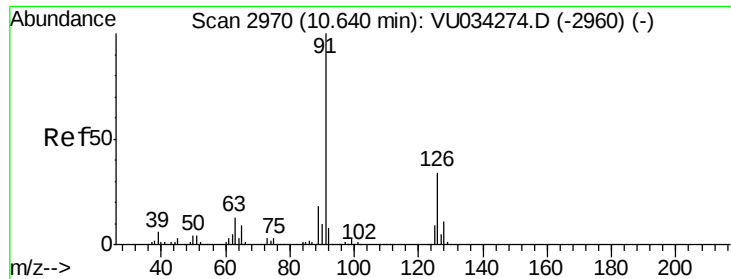
120 23.8 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.453 ug/l

RT: 10.64 min Scan# 2969

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

ClientSampleId :

VU0912WBSD02

Tot Ion: 91 Resp: 233285

Ion Ratio Lower Upper

91 100

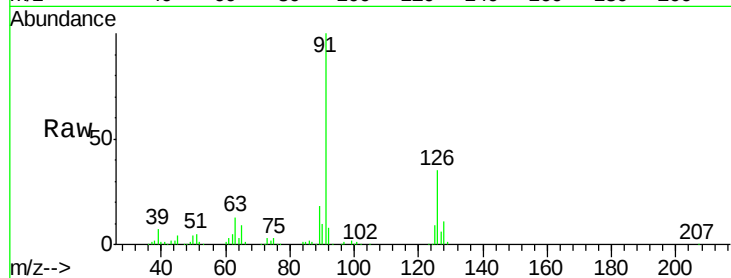
126 35.4 17.3 51.9

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Abundance Ion 91.00 (90.70 to 91.70): VU034518.D (-2960) (-)

Ion 125.90 (125.60 to 126.60): VU034518.D (-2960) (-)

250000

200000

150000

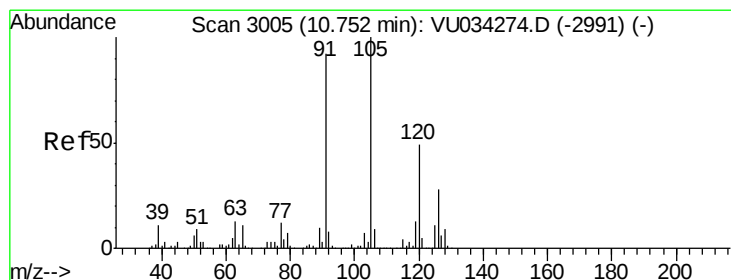
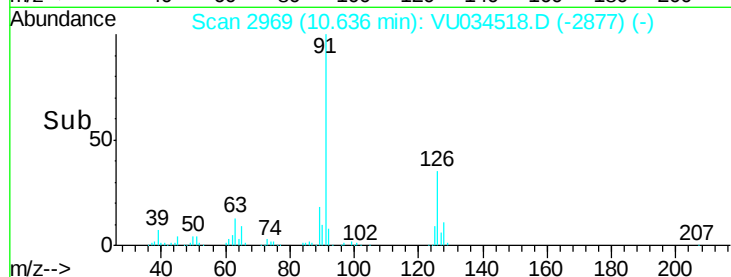
100000

50000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 23.317 ug/l

RT: 10.75 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VU034518.D

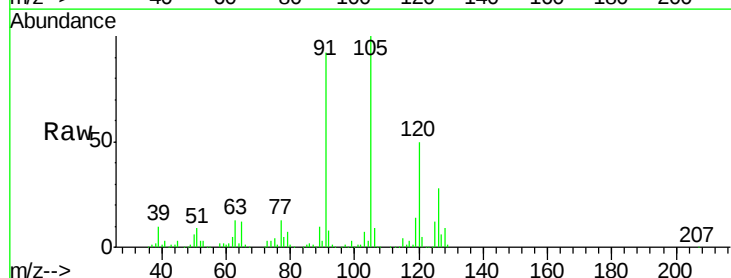
Acq: 12 Sep 2019 14:15

Tgt Ion: 105 Resp: 287527

Ion Ratio Lower Upper

105 100

120 50.1 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): VU034518.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU034518.D (-2991) (-)

200000

150000

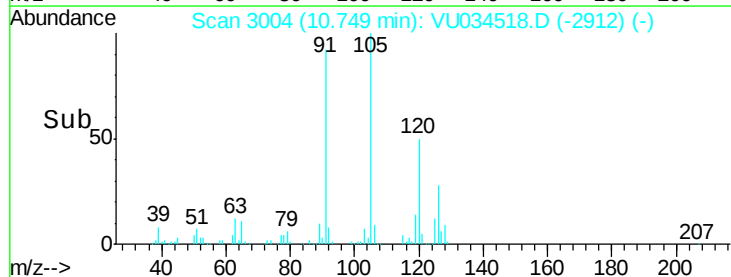
100000

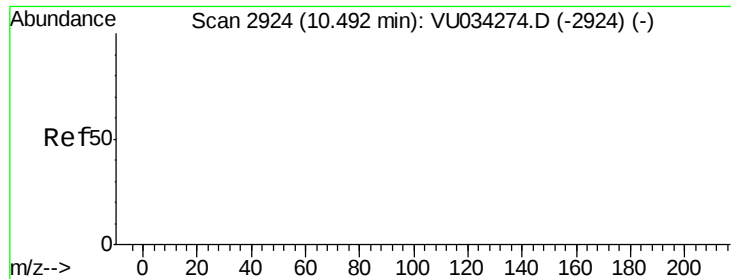
50000

0

10.70 10.80

Time-->





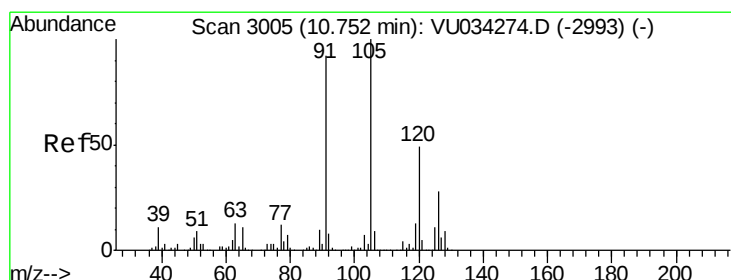
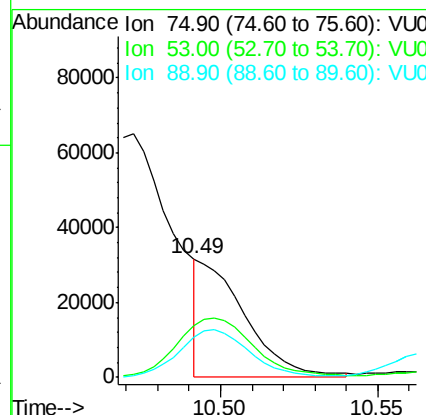
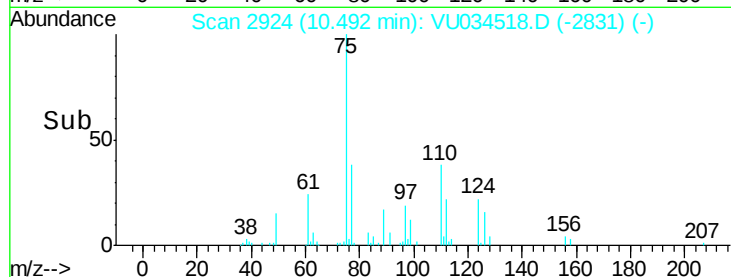
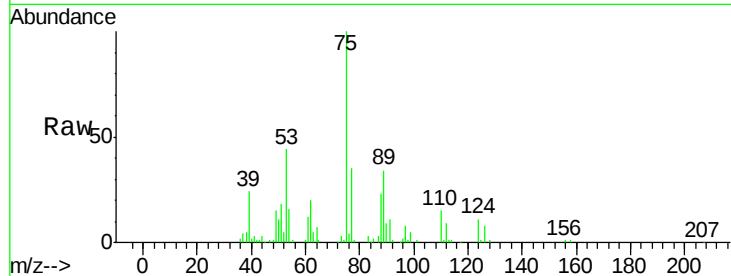
#81  
trans-1,4-Dichloro-2-butene  
Concen: 21.450 ug/l m  
RT: 10.49 min Scan# 2924  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 0.0   | 0.0   | 0.0   |
| 89      | 0.0   | 0.0   | 0.0   |

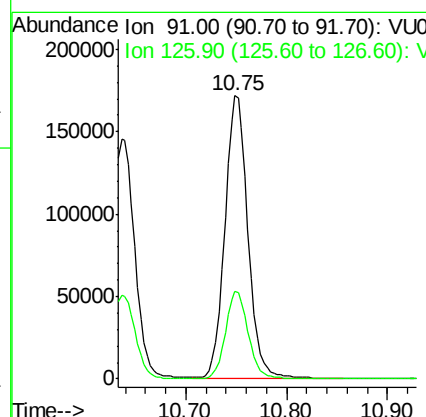
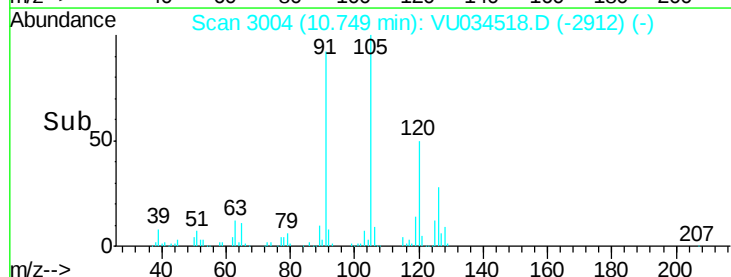
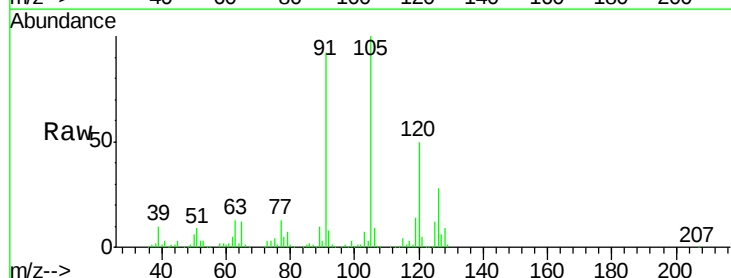
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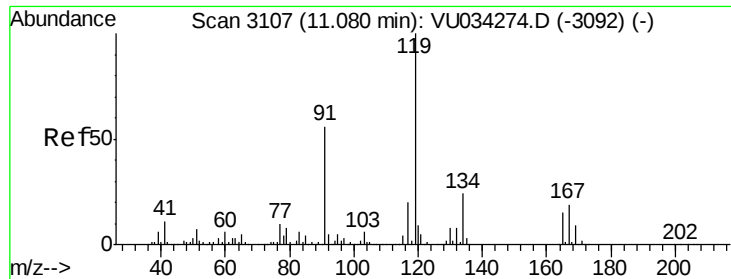
MMDadoda  
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#82  
4-Chlorotoluene  
Concen: 22.823 ug/l  
RT: 10.75 min Scan# 3004  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 30.6  | 15.3  | 45.8  |





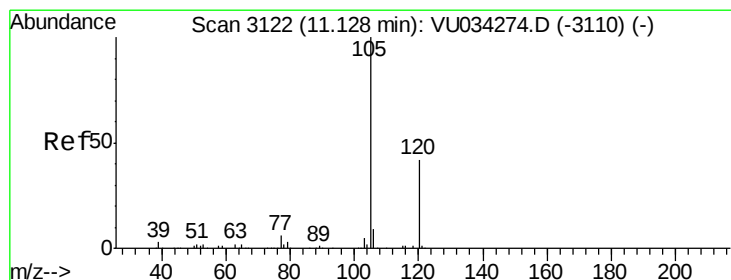
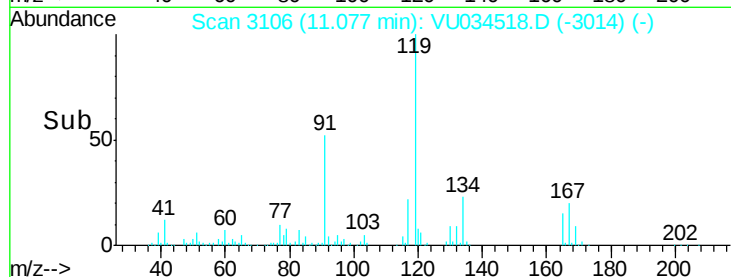
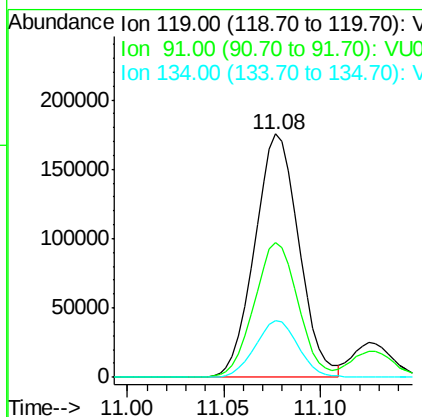
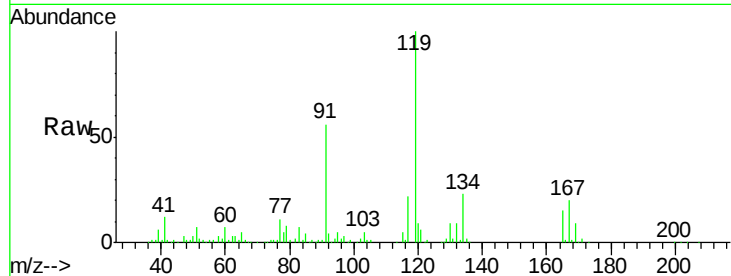
#83  
tert-Butylbenzene  
Concen: 22.561 ug/l  
RT: 11.08 min Scan# 3106  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 278313 |       |       |
| 91      | 54.9  | 27.8   | 83.4  |       |
| 134     | 22.7  | 11.7   | 35.0  |       |

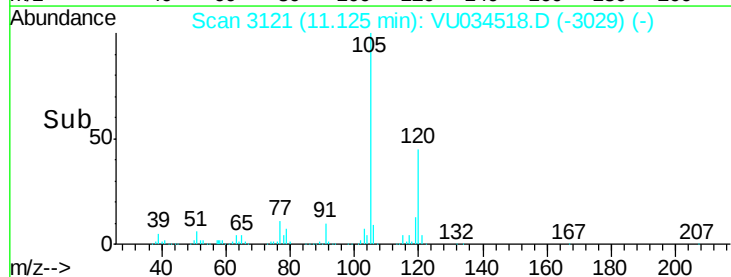
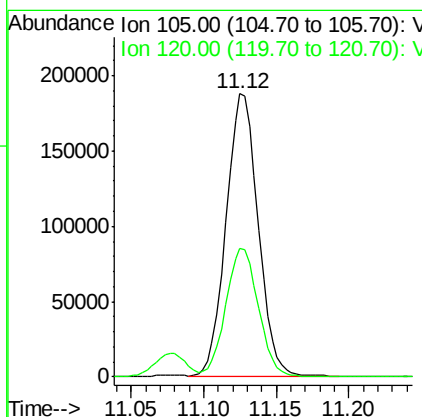
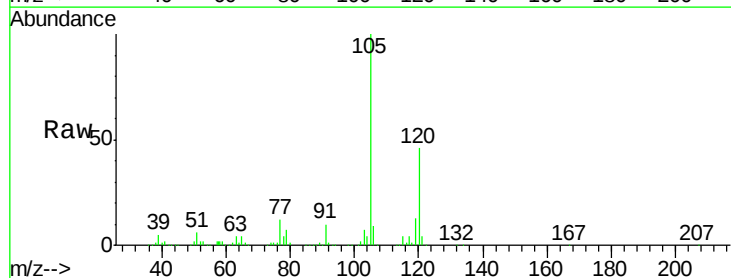
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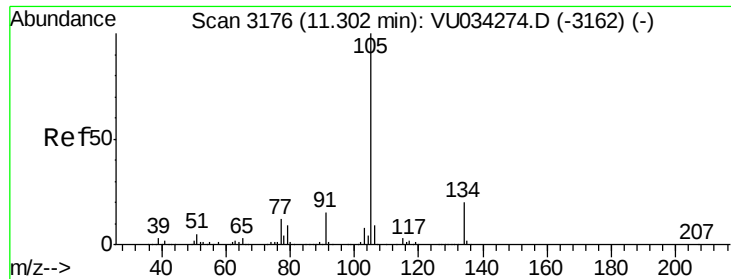
MMDadoda  
9/16/2019 11:16:37 AM



#84  
1,2,4-Trimethylbenzene  
Concen: 23.126 ug/l  
RT: 11.12 min Scan# 3121  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 287053 |       |       |
| 120     | 46.8  | 22.9   | 68.8  |       |





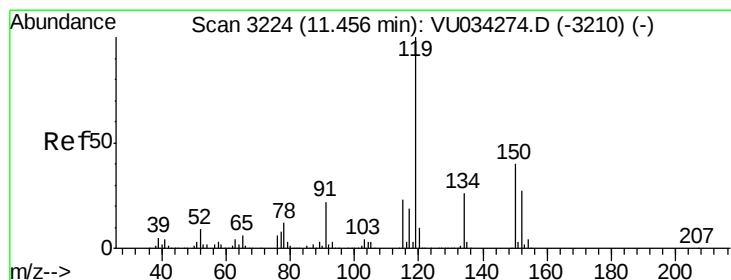
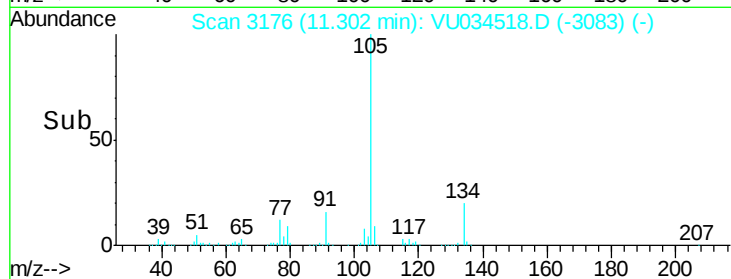
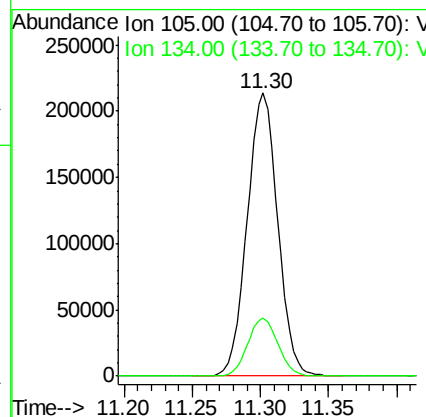
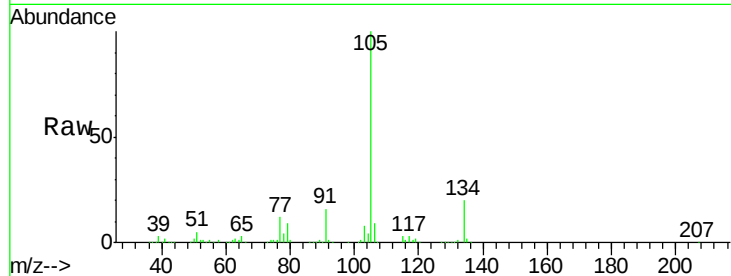
#85  
 sec-Butylbenzene  
 Concen: 22.782 ug/l  
 RT: 11.30 min Scan# 3176  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.4  | 10.1  | 30.3  |

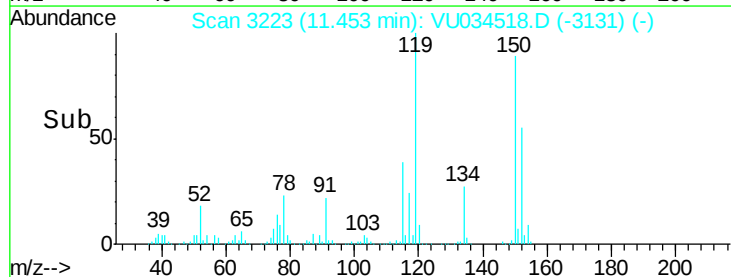
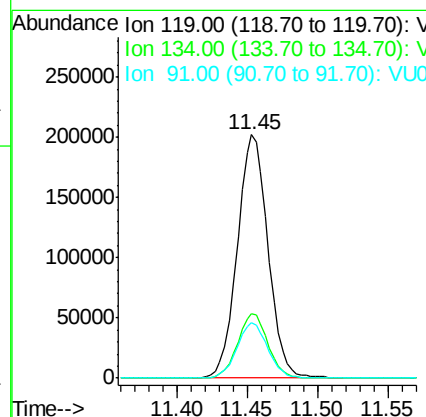
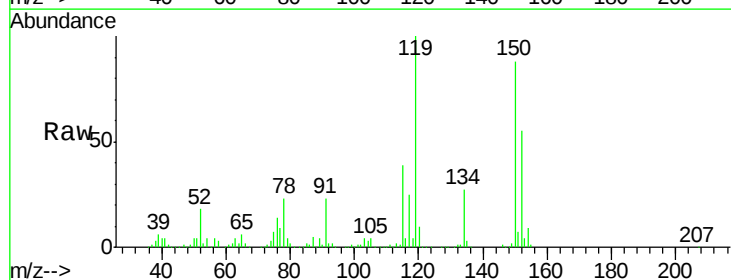
Manual Integrations  
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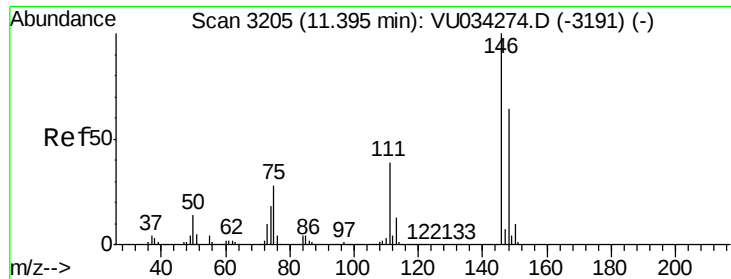
MMDadoda  
 9/16/2019 11:16:37 AM



#86  
 p-Isopropyltoluene  
 Concen: 22.731 ug/l  
 RT: 11.45 min Scan# 3223  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.5  | 13.3  | 39.8  |
| 91      | 22.7  | 11.2  | 33.6  |





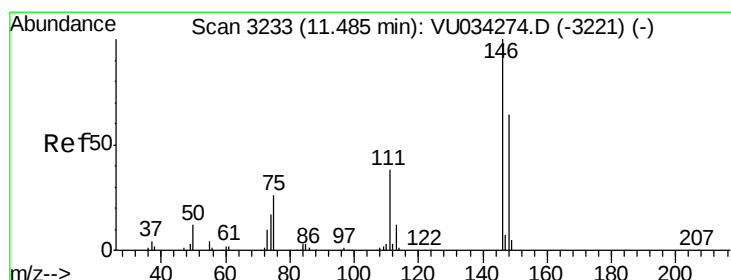
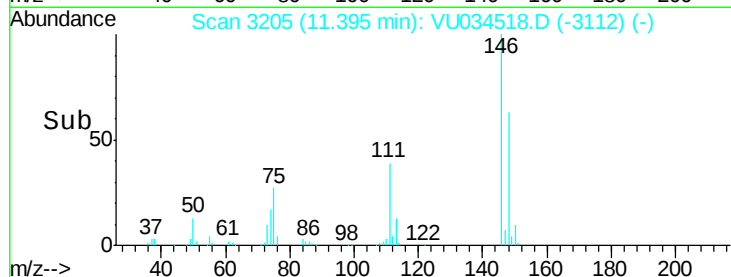
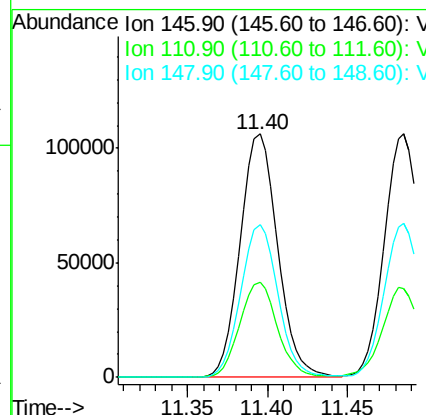
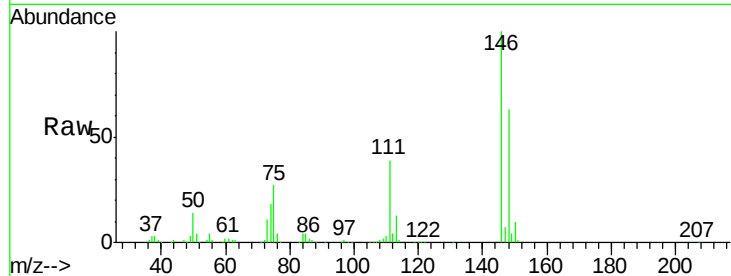
#87  
 1,3-Dichlorobenzene  
 Concen: 22.588 ug/l  
 RT: 11.40 min Scan# 3205  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 169928 |       |       |
| 111     | 39.2  | 19.5   | 58.5  |       |
| 148     | 62.5  | 32.1   | 96.3  |       |

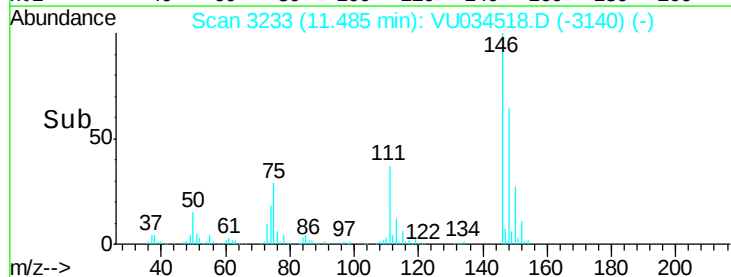
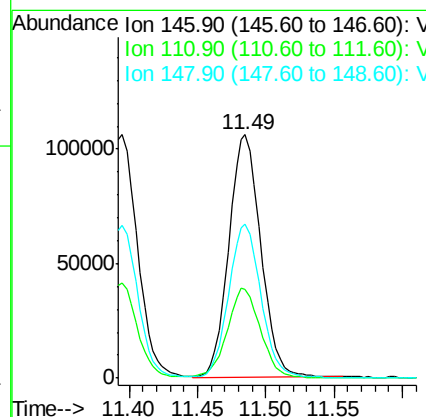
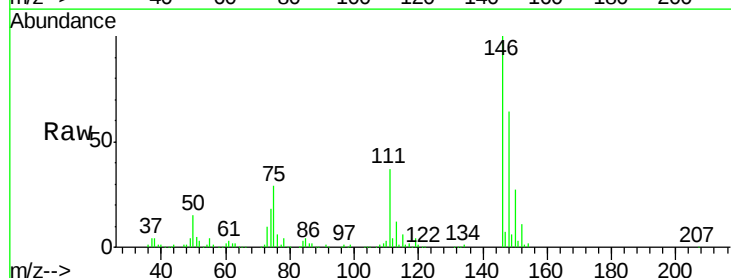
Manual Integrations  
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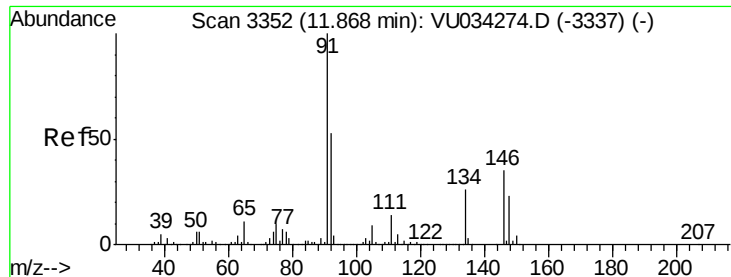
MMDadoda  
 9/16/2019 11:16:37 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 21.966 ug/l  
 RT: 11.49 min Scan# 3233  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 172359 |       |       |
| 111     | 38.5  | 19.1   | 57.3  |       |
| 148     | 63.9  | 32.0   | 96.0  |       |





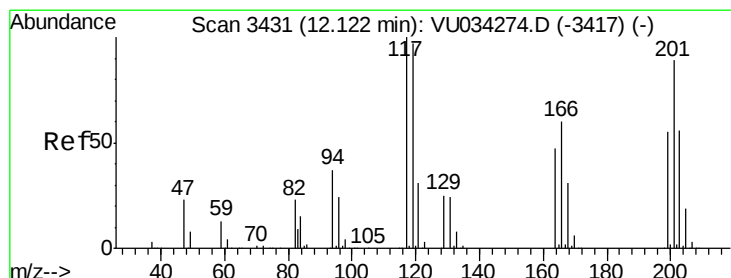
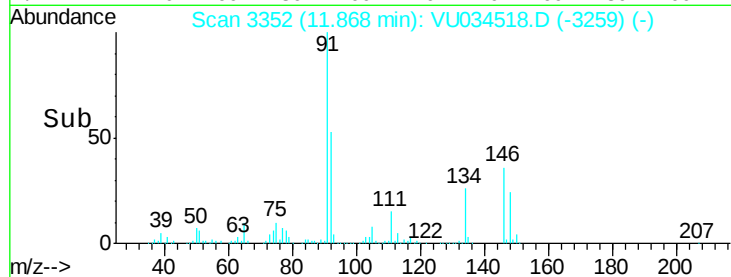
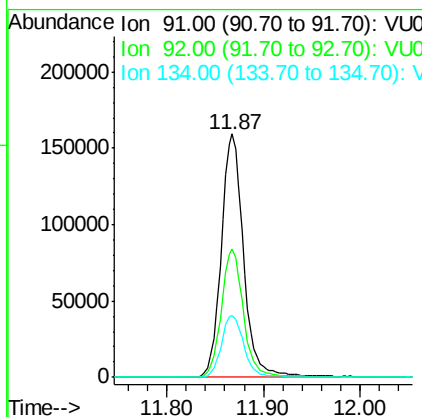
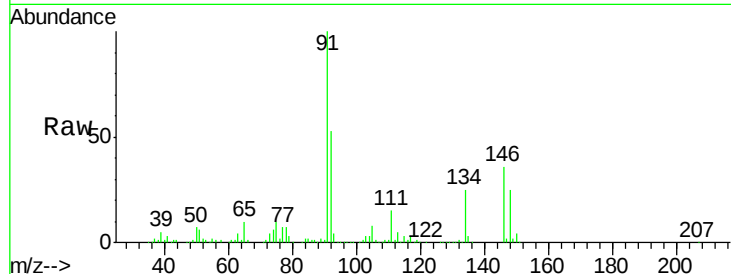
#89  
n-Butylbenzene  
Concen: 21.826 ug/l  
RT: 11.87 min Scan# 3352  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.6  | 26.5  | 79.4  |
| 134     | 25.6  | 13.2  | 39.6  |

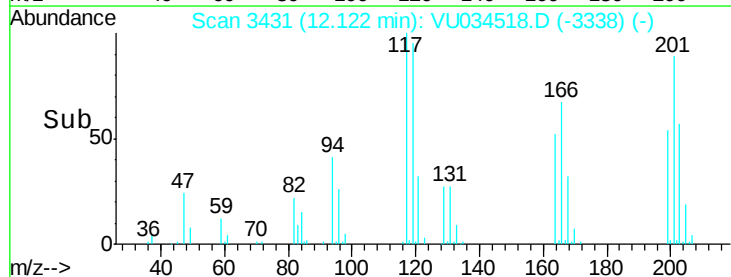
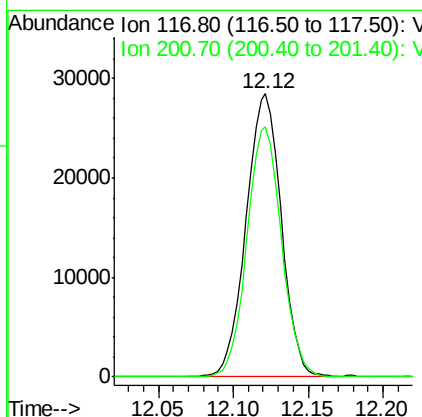
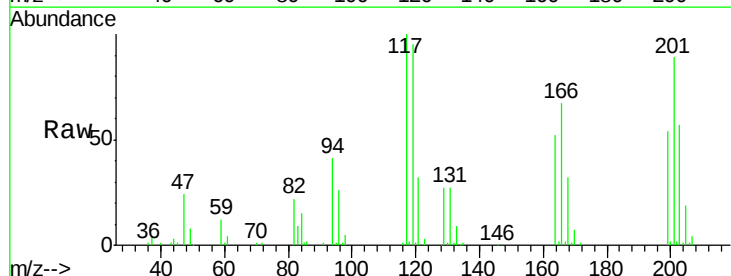
Manual Integrations  
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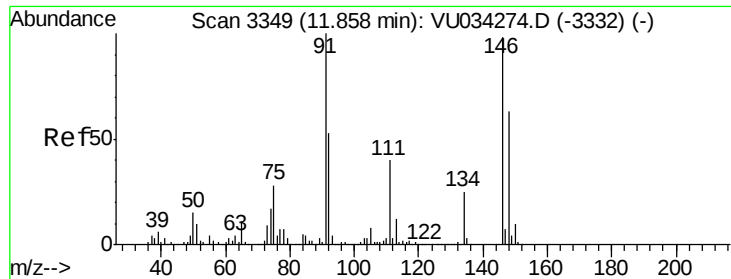
MMDadoda  
9/16/2019 11:16:37 AM



#90  
Hexachloroethane  
Concen: 21.712 ug/l  
RT: 12.12 min Scan# 3431  
Delta R.T. -0.00 min  
Lab File: VU034518.D  
Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 86.3  | 44.1  | 132.4 |





#91

1,2-Dichlorobenzene

Concen: 22.378 ug/l

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

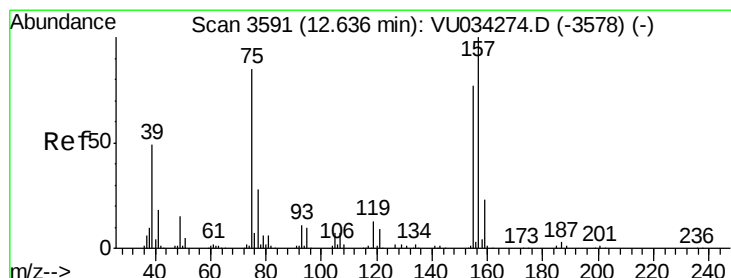
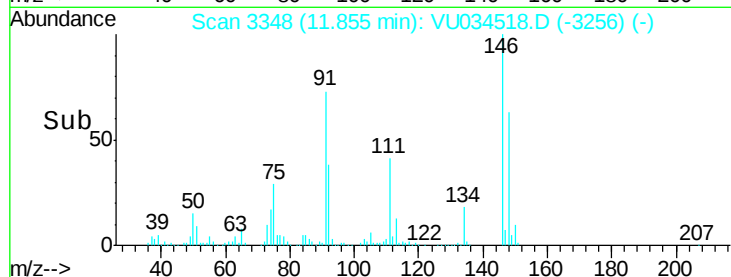
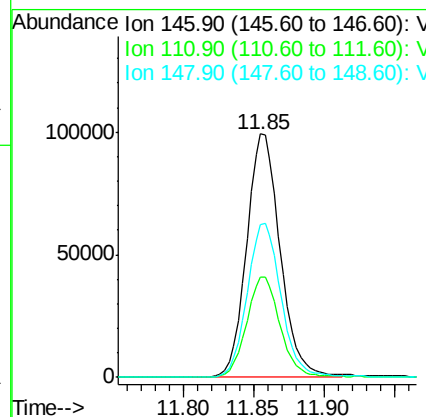
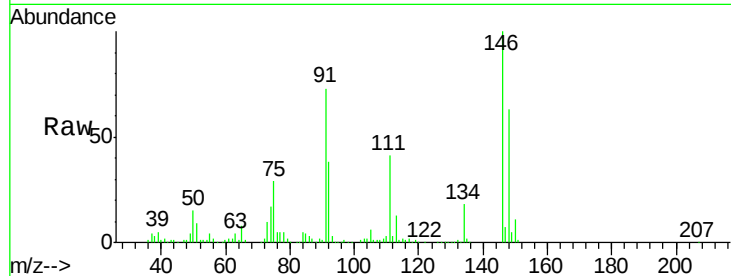
ClientSampleId :

VU0912WBSD02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 165450 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 41.4  | 20.0  | 60.0   |
| 148       | 64.3  | 31.6  | 94.8   |

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#92

1,2-Dibromo-3-Chloropropane

Concen: 23.078 ug/l

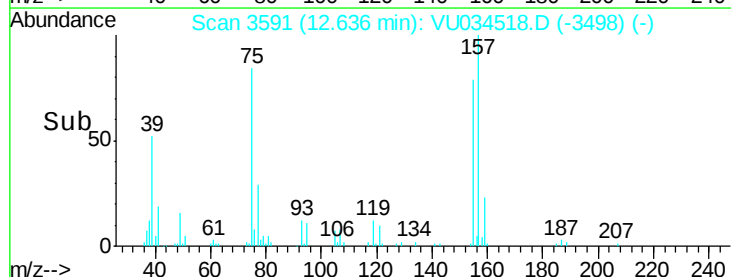
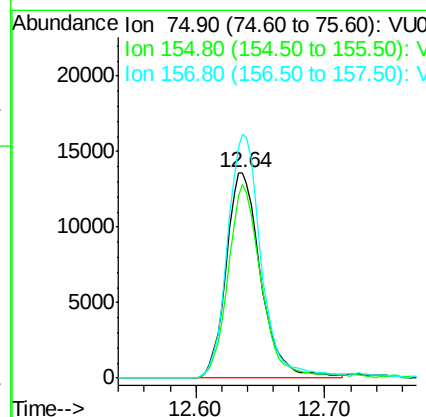
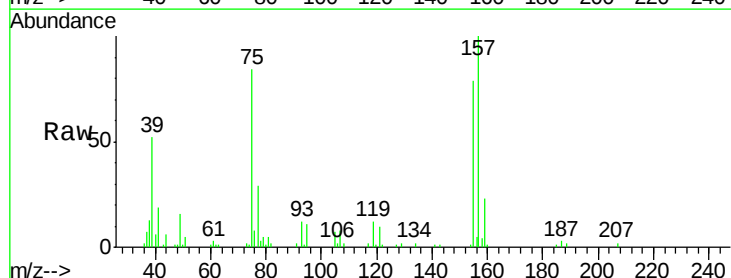
RT: 12.64 min Scan# 3591

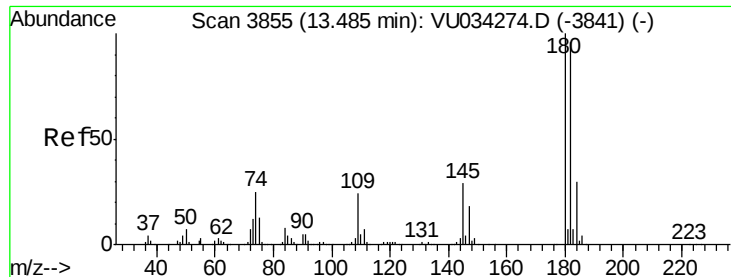
Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 25309 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 88.9  | 44.6  | 134.0 |
| 157       | 115.8 | 58.2  | 174.6 |





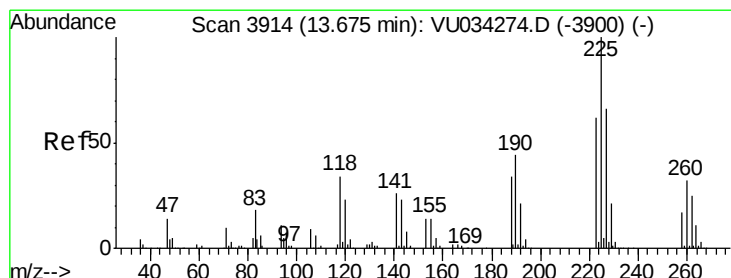
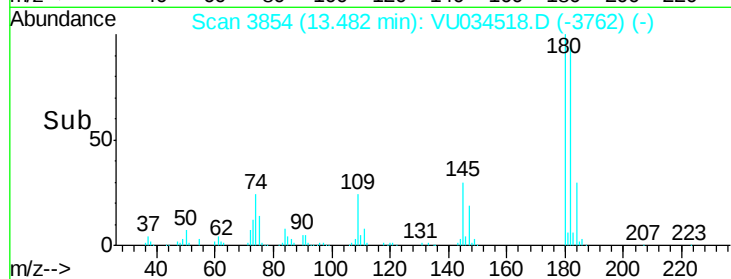
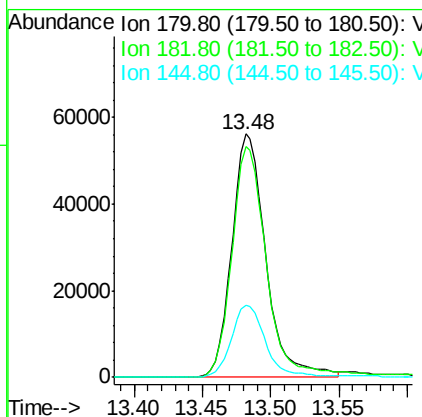
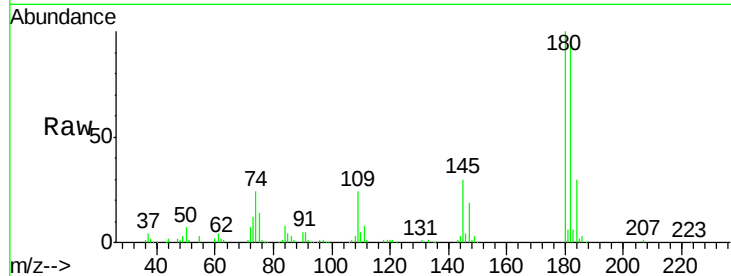
#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.341 ug/l  
 RT: 13.48 min Scan# 3854  
 Delta R.T. -0.00 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0912WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.1  | 47.9  | 143.8 |
| 145     | 30.1  | 14.4  | 43.0  |

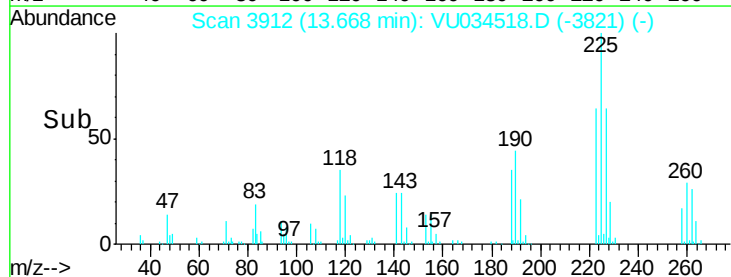
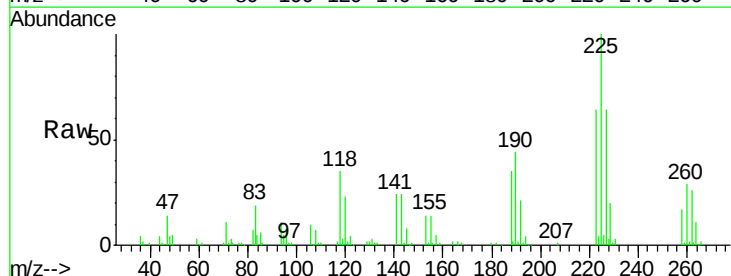
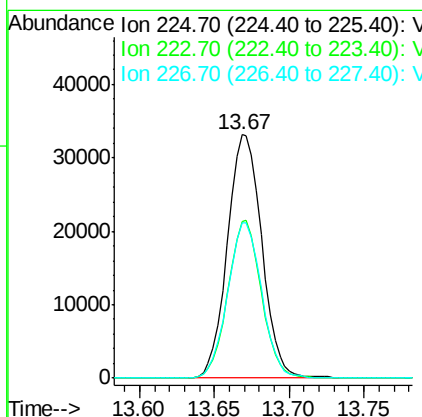
Manual Integrations  
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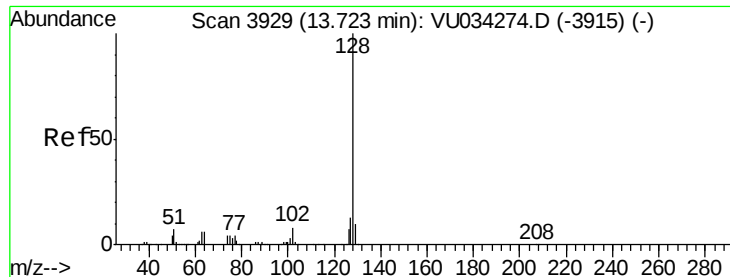
MMDadoda  
 9/16/2019 11:16:37 AM



#94  
 Hexachlorobutadiene  
 Concen: 20.585 ug/l  
 RT: 13.67 min Scan# 3912  
 Delta R.T. -0.01 min  
 Lab File: VU034518.D  
 Acq: 12 Sep 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.9  | 31.6  | 94.7  |
| 227     | 63.1  | 32.3  | 96.8  |





#95

Naphthalene

Concen: 19.421 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

Instrument :

MSVOA\_U

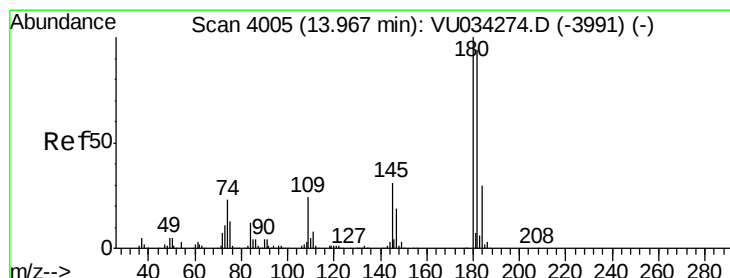
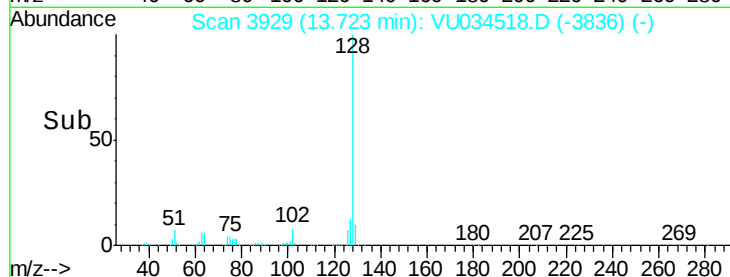
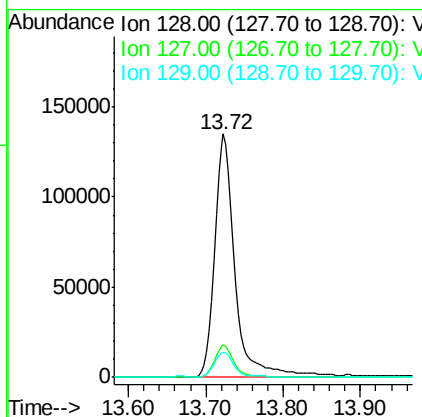
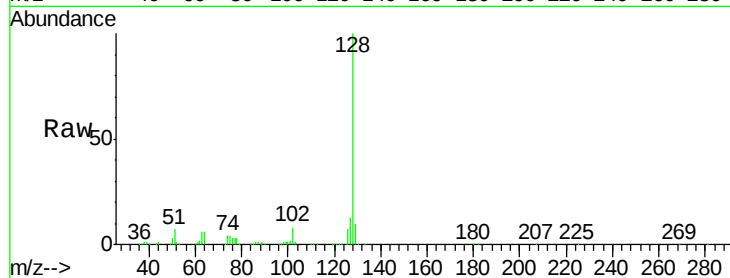
ClientSampleId :

VU0912WBSD02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 253477 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 12.7  | 10.6  | 15.8   |
| 129       | 10.1  | 8.4   | 12.6   |

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#96

1,2,3-Trichlorobenzene

Concen: 21.519 ug/l

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034518.D

Acq: 12 Sep 2019 14:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 103231 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 93.8  | 48.4  | 145.0  |
| 145       | 29.2  | 15.4  | 46.4   |

