

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091119\  
 Data File : VU034467.D  
 Acq On : 11 Sep 2019 10:13  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 9/12/2019 4:53:17 PM

Quant Time: Sep 12 02:28:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U091119DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Sep 12 02:05:08 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc  | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|-------|---------|----------|
| -----                         | ----- | ----- | -----    | ----- | -----   | -----    |
| 1) Fluorobenzene              | 5.72  | 96    | 58990    | 1.00  | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |       |         |          |
| 57) 4-Bromofluorobenzene      | 10.29 | 95    | 23157    | 1.01  | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =     | 101.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.84 | 152   | 25171    | 1.05  | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =     | 105.00% |          |
| Target Compounds              |       |       |          |       |         |          |
|                               |       |       |          |       | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.21  | 85    | 21916    | 0.912 | ug/l    | 100      |
| 3) Chloromethane              | 1.33  | 50    | 24924    | 0.942 | ug/l    | 98       |
| 4) Vinyl Chloride             | 1.40  | 62    | 24098    | 0.826 | ug/l    | 100      |
| 5) Bromomethane               | 1.62  | 94    | 14447    | 0.794 | ug/l    | 92       |
| 6) Chloroethane               | 1.69  | 64    | 13823    | 0.700 | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 1.88  | 101   | 29328    | 0.743 | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101   | 16107    | 0.784 | ug/l    | 93       |
| 9) 1,1-Dichloroethene         | 2.28  | 96    | 16346    | 0.807 | ug/l    | 97       |
| 10) Iodomethane               | 2.40  | 142   | 11861    | 0.448 | ug/l    | 96       |
| 11) Allyl Chloride            | 2.58  | 41    | 26090    | 0.781 | ug/l    | 95       |
| 12) Acrylonitrile             | 2.92  | 53    | 6430     | 1.169 | ug/l    | 93       |
| 13) Acetone                   | 2.32  | 43    | 14685    | 3.118 | ug/l    | 99       |
| 14) Carbon Disulfide          | 2.47  | 76    | 56984    | 0.746 | ug/l    | 97       |
| 15) Methylene Chloride        | 2.69  | 84    | 19547    | 0.722 | ug/l    | 98       |
| 16) trans-1,2-Dichloroethene  | 2.96  | 96    | 18399    | 0.769 | ug/l    | 95       |
| 17) 1,1-Dichloroethane        | 3.42  | 63    | 33963    | 1.006 | ug/l    | 99       |
| 18) 2-Butanone                | 4.27  | 43    | 17804    | 3.808 | ug/l    | 99       |
| 19) Cyclohexane               | 4.97  | 56    | 23135m   | 0.922 | ug/l    |          |
| 20) Methylcyclohexane         | 6.40  | 83    | 24888    | 0.985 | ug/l    | 97       |
| 21) 2,2-Dichloropropane       | 4.21  | 77    | 28984    | 1.011 | ug/l    | 97       |
| 22) cis-1,2-Dichloroethene    | 4.21  | 96    | 18790    | 0.987 | ug/l    | 95       |
| 23) Diethyl Ether             | 2.10  | 59    | 11732    | 0.685 | ug/l    | 97       |
| 24) tert-Butyl Alcohol        | 2.82  | 59    | 18802    | 7.231 | ug/l #  | 92       |
| 25) Methyl tert-Butyl Ether   | 2.99  | 73    | 37495    | 0.658 | ug/l    | 96       |
| 26) Bromochloromethane        | 4.53  | 128   | 8249     | 0.995 | ug/l    | 99       |
| 27) Chloroform                | 4.65  | 83    | 37006    | 0.974 | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane     | 4.89  | 97    | 26867    | 0.915 | ug/l    | 98       |
| 29) 1,1-Dichloropropene       | 5.11  | 75    | 22164    | 0.909 | ug/l    | 97       |
| 30) Carbon Tetrachloride      | 5.11  | 117   | 24902    | 0.960 | ug/l    | 95       |
| 31) Isopropyl Ether           | 3.56  | 45    | 46407    | 1.065 | ug/l    | 93       |
| 32) Ethyl-t-butyl ether       | 4.05  | 59    | 39934    | 0.974 | ug/l    | 99       |
| 33) Tert-Amyl methyl ether    | 5.56  | 73    | 31734    | 0.877 | ug/l    | 98       |
| 34) Propionitrile             | 4.33  | 54    | 5024     | 3.801 | ug/l #  | 98       |
| 35) Benzene                   | 5.37  | 78    | 68892    | 0.972 | ug/l    | 100      |
| 36) 1,2-Dichloroethane        | 5.39  | 62    | 18383    | 0.808 | ug/l    | 99       |
| 37) Trichloroethene           | 6.16  | 130   | 19923    | 1.053 | ug/l    | 91       |
| 38) 1,2-Dichloropropane       | 6.41  | 63    | 19090    | 0.983 | ug/l    | 98       |
| 39) Methacrylonitrile         | 4.54  | 41    | 4085     | 0.769 | ug/l #  | 90       |
| 40) Methyl acrylate           | 4.42  | 55    | 6663     | 0.808 | ug/l #  | 74       |
| 41) Tetrahydrofuran           | 4.64  | 42    | 4316     | 1.627 | ug/l #  | 90       |
| 42) 1-Chlorobutane            | 5.04  | 56    | 30023    | 0.912 | ug/l    | 96       |

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 Sample : VSTDIC001  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDIC001

Manual Integrations  
 APPROVED

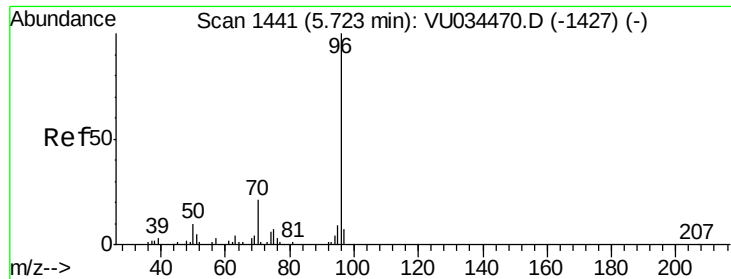
MMDadoda  
 9/12/2019 4:53:17 PM

Quant Time: Sep 12 02:28:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U091119DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Sep 12 02:05:08 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 43) Dibromomethane             | 6.54  | 93   | 8889     | 0.851 | ug/l  | 99       |
| 44) Bromodichloromethane       | 6.74  | 83   | 22826    | 0.893 | ug/l  | 95       |
| 45) 4-Methyl-2-Pentanone       | 7.45  | 43   | 41675    | 3.928 | ug/l  | 98       |
| 46) t-1,4-Dichloro-2-butene    | 10.50 | 75   | 6005m    | 1.429 | ug/l  |          |
| 47) Methyl methacrylate        | 6.61  | 69   | 12747    | 1.596 | ug/l  | 98       |
| 48) Ethyl methacrylate         | 8.01  | 69   | 10731    | 0.758 | ug/l  | 94       |
| 49) Toluene                    | 7.62  | 92   | 36636    | 0.902 | ug/l  | 97       |
| 50) t-1,3-Dichloropropene      | 7.86  | 75   | 17948    | 0.847 | ug/l  | 97       |
| 51) cis-1,3-Dichloropropene    | 7.25  | 75   | 22526    | 0.886 | ug/l  | 98       |
| 52) 1,1,2-Trichloroethane      | 8.05  | 97   | 12780    | 0.911 | ug/l  | 98       |
| 53) 1,3-Dichloropropane        | 8.23  | 76   | 20431    | 0.860 | ug/l  | 99       |
| 54) 2-Hexanone                 | 8.35  | 43   | 26314    | 3.536 | ug/l  | 95       |
| 55) Dibromochloromethane       | 8.46  | 129  | 14791    | 0.895 | ug/l  | 99       |
| 56) 1,2-Dibromoethane          | 8.57  | 107  | 11321    | 0.868 | ug/l  | 96       |
| 58) Tetrachloroethene          | 8.21  | 164  | 18745    | 1.087 | ug/l  | 97       |
| 59) Chlorobenzene              | 9.10  | 112  | 43270    | 0.932 | ug/l  | 98       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.19  | 131  | 17091    | 0.971 | ug/l  | 98       |
| 61) Pentachloroethane          | 11.08 | 117  | 14174    | 0.986 | ug/l  | 95       |
| 62) Hexachloroethane           | 12.12 | 117  | 12203    | 0.890 | ug/l  | 93       |
| 63) Ethyl Benzene              | 9.23  | 91   | 64648    | 0.867 | ug/l  | 99       |
| 64) m/p-Xylenes                | 9.35  | 106  | 51693    | 1.729 | ug/l  | 95       |
| 65) o-Xylene                   | 9.76  | 106  | 25911    | 0.906 | ug/l  | 96       |
| 66) Styrene                    | 9.77  | 104  | 40210    | 0.832 | ug/l  | 98       |
| 67) Bromoform                  | 9.94  | 173  | 8629     | 0.956 | ug/l  | 98       |
| 69) Isopropylbenzene           | 10.14 | 105  | 63517    | 0.864 | ug/l  | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 16526    | 0.891 | ug/l  | 96       |
| 71) 1,2,3-Trichloropropane     | 10.48 | 75   | 11029m   | 0.767 | ug/l  |          |
| 72) Bromobenzene               | 10.43 | 156  | 19506    | 1.002 | ug/l  | 97       |
| 73) n-propylbenzene            | 10.57 | 120  | 18143    | 0.863 | ug/l  | 95       |
| 74) 2-Chlorotoluene            | 10.64 | 126  | 17518    | 0.919 | ug/l  | 100      |
| 75) 1,3,5-Trimethylbenzene     | 10.75 | 105  | 57029    | 0.867 | ug/l  | 99       |
| 76) 4-Chlorotoluene            | 10.75 | 126  | 17755    | 0.899 | ug/l  | 92       |
| 77) tert-Butylbenzene          | 11.08 | 119  | 57516    | 0.914 | ug/l  | 98       |
| 78) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 57584    | 0.858 | ug/l  | 99       |
| 79) sec-Butylbenzene           | 11.30 | 105  | 77064    | 0.898 | ug/l  | 100      |
| 81) p-Isopropyltoluene         | 11.46 | 119  | 60555    | 0.863 | ug/l  | 97       |
| 82) 1,3-Dichlorobenzene        | 11.40 | 146  | 40965    | 0.993 | ug/l  | 99       |
| 83) 1,4-Dichlorobenzene        | 11.49 | 146  | 39804    | 0.978 | ug/l  | 96       |
| 84) n-Butylbenzene             | 11.87 | 91   | 56011    | 0.792 | ug/l  | 98       |
| 85) 1,2-Dichlorobenzene        | 11.86 | 146  | 36994    | 0.963 | ug/l  | 97       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.64 | 75   | 1844     | 0.641 | ug/l  | 93       |
| 87) 1,2,4-Trichlorobenzene     | 13.49 | 180  | 18525m   | 0.809 | ug/l  |          |
| 88) Hexachlorobutadiene        | 13.67 | 225  | 16389    | 1.118 | ug/l  | 99       |
| 89) Naphthalene                | 13.73 | 128  | 20756    | 0.551 | ug/l  | 98       |
| 90) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 16883m   | 0.764 | ug/l  |          |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

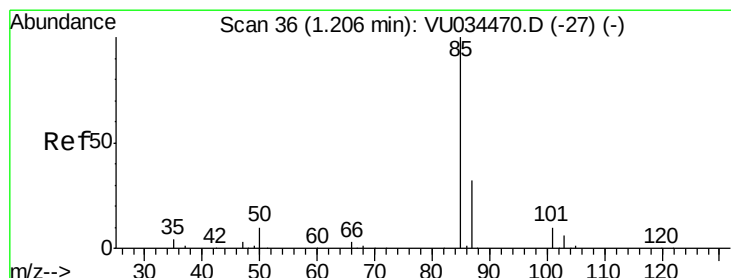
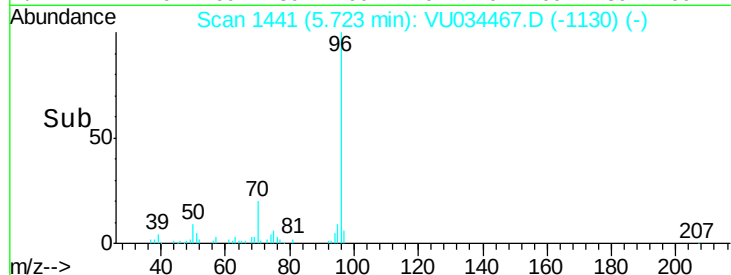
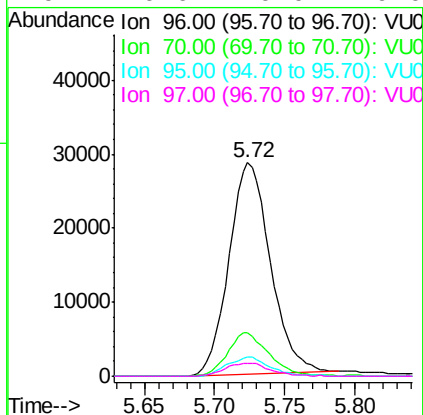
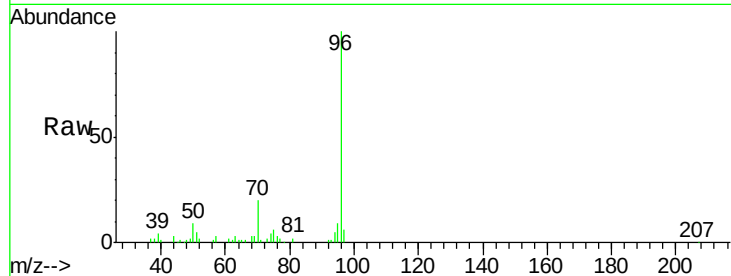
ClientSampleId :

VSTDIC001

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 96      | 100  |       | 58990 |       |       |
| 70      | 20.5 | 16.5  | 24.7  |       |       |
| 95      | 8.6  | 7.0   | 10.6  |       |       |
| 97      | 6.6  | 0.0   | 0.0   |       |       |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 0.912 ug/l

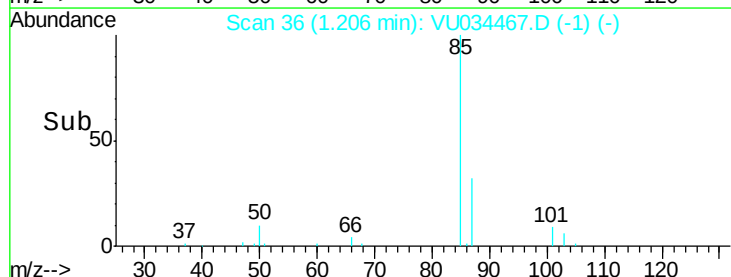
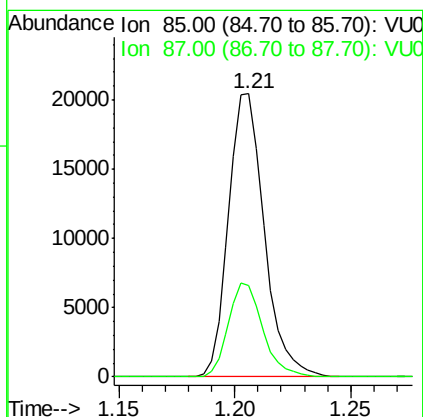
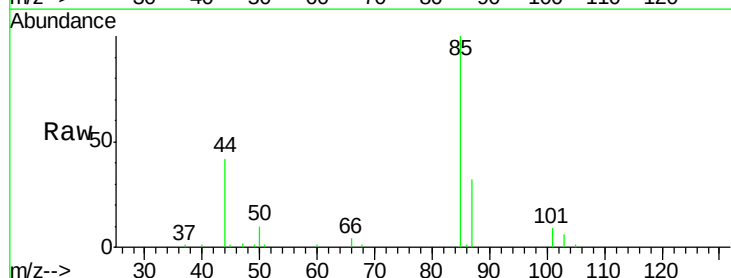
RT: 1.21 min Scan# 36

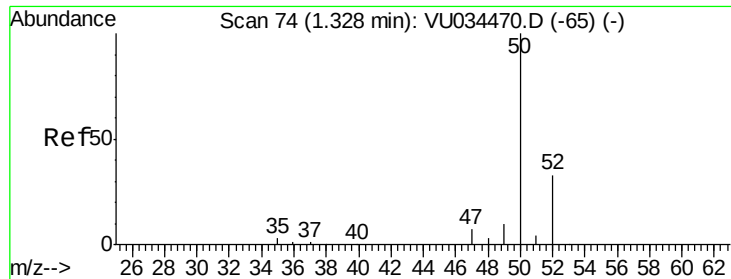
Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 85      | 100  |       | 21916 |       |       |
| 87      | 32.4 | 16.1  | 48.3  |       |       |





#3

Chloromethane

Concen: 0.942 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 24924

Ion Ratio Lower Upper

50 100

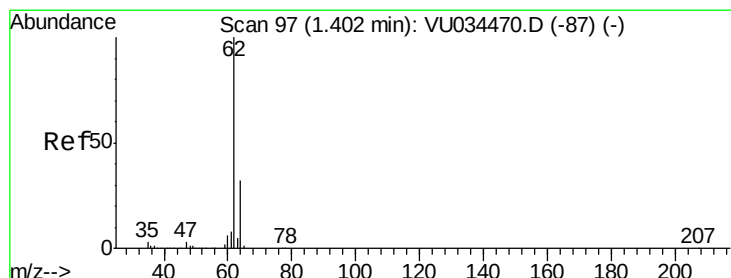
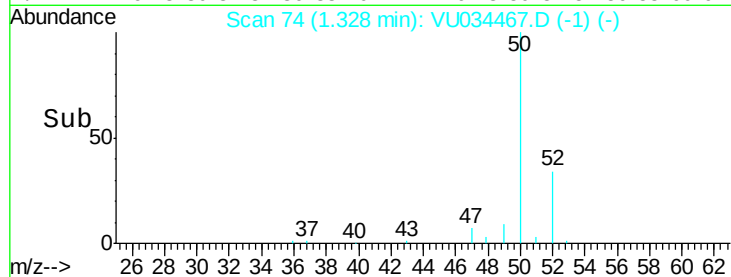
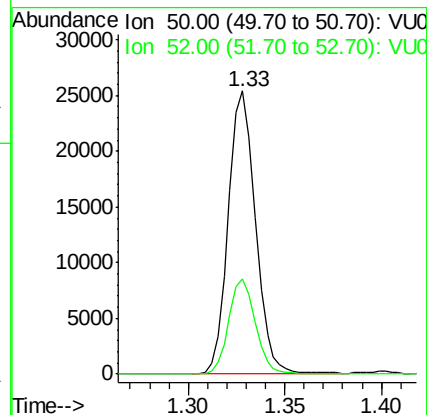
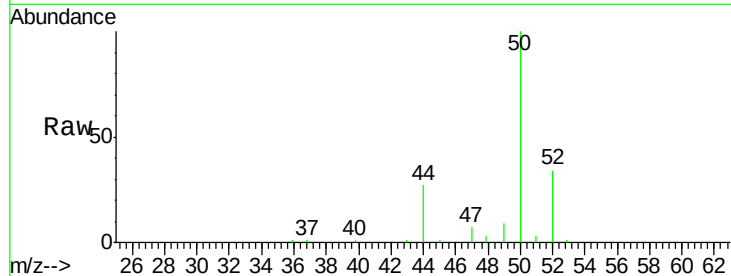
52 33.7 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.826 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034467.D

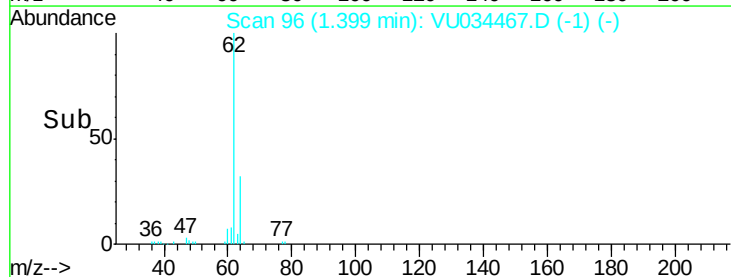
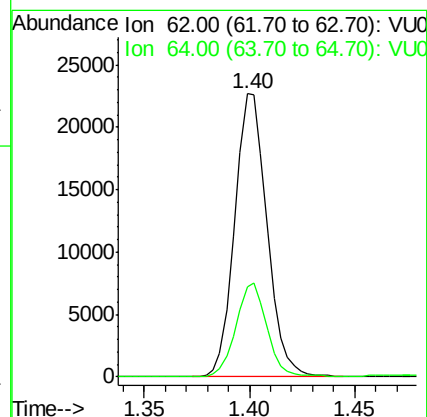
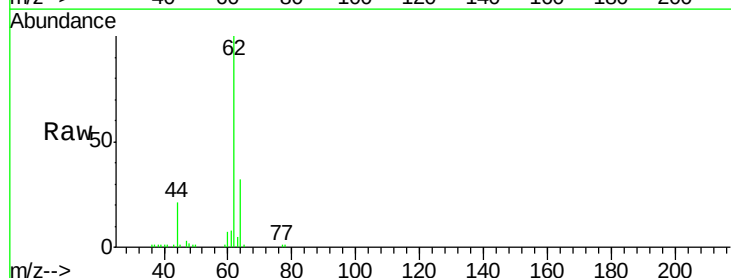
Acq: 11 Sep 2019 10:13

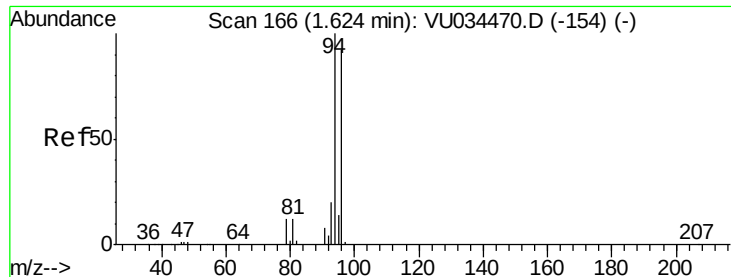
Tgt Ion: 62 Resp: 24098

Ion Ratio Lower Upper

62 100

64 31.6 25.4 38.0





#5

Bromomethane

Concen: 0.794 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 94 Resp: 14447

Ion Ratio Lower Upper

94 100

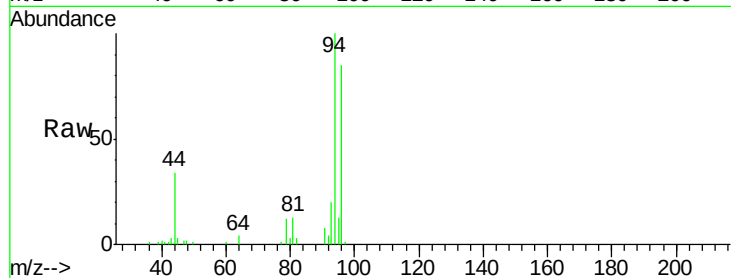
96 85.0 73.8 110.8

Manual Integrations

APPROVED

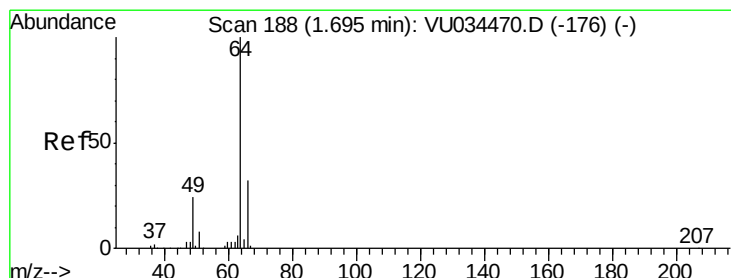
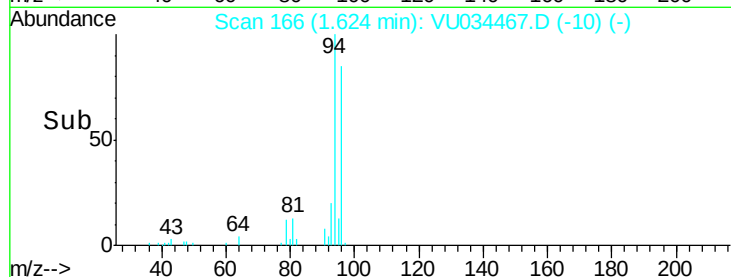
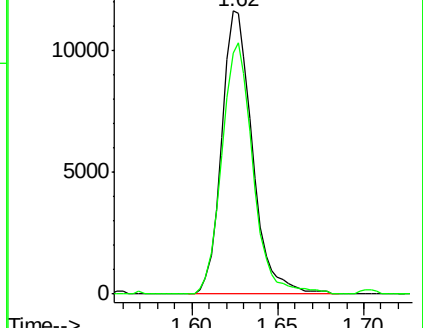
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Abundance Ion 94.00 (93.70 to 94.70): VU034467.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU034467.D (-154) (-)



#6

Chloroethane

Concen: 0.700 ug/l

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU034467.D

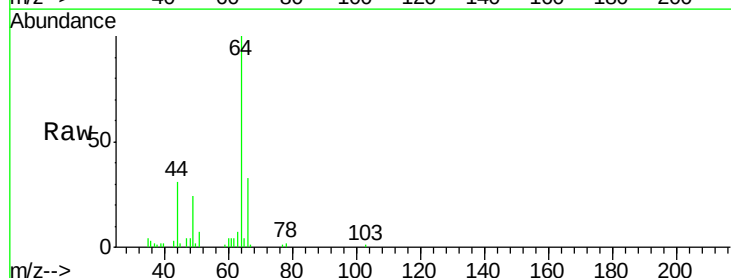
Acq: 11 Sep 2019 10:13

Tgt Ion: 64 Resp: 13823

Ion Ratio Lower Upper

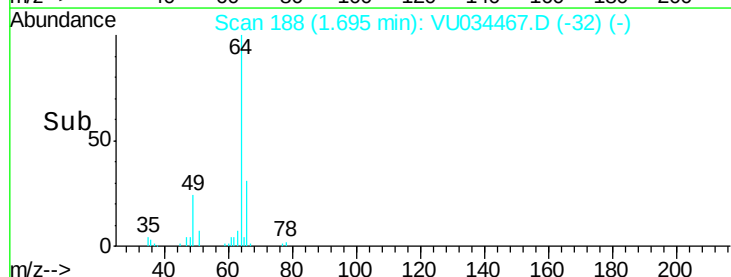
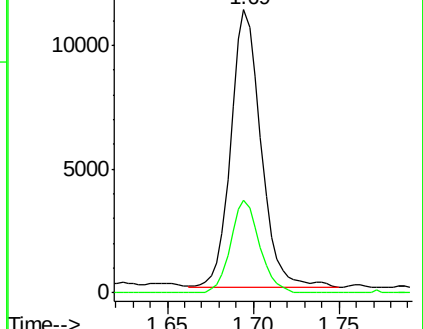
64 100

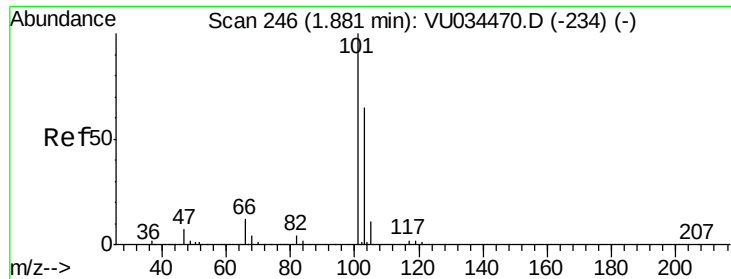
66 33.5 25.8 38.8



Abundance Ion 64.00 (63.70 to 64.70): VU034467.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU034467.D (-176) (-)





#7

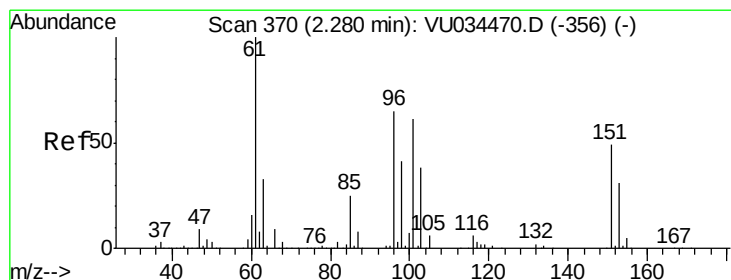
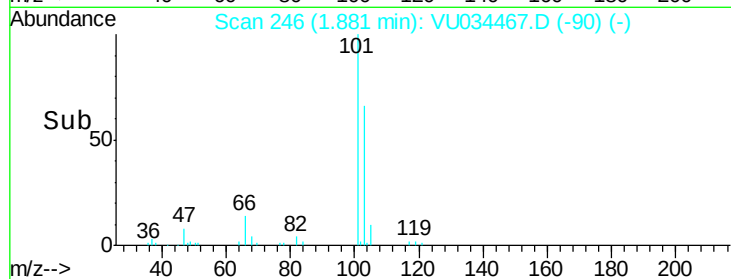
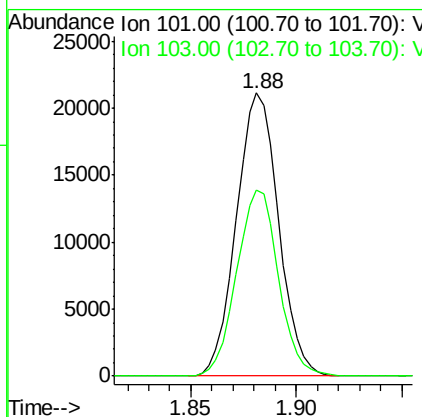
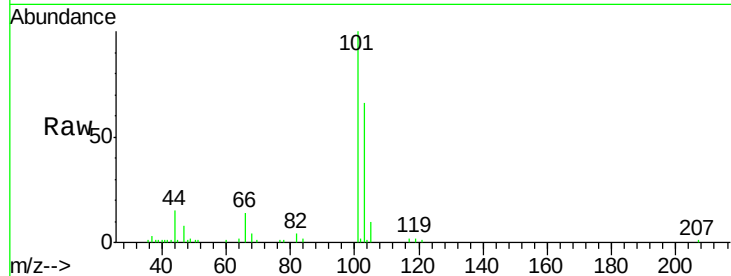
Trichlorofluoromethane  
Concen: 0.743 ug/l  
RT: 1.88 min Scan# 246  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 66.0  | 52.2  | 78.4  |

Manual Integrations  
APPROVED

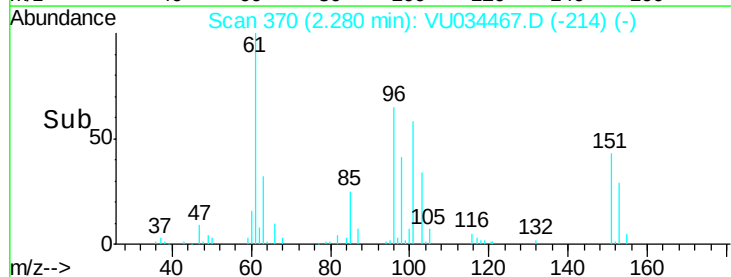
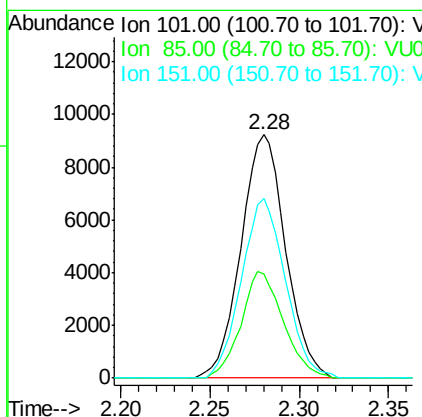
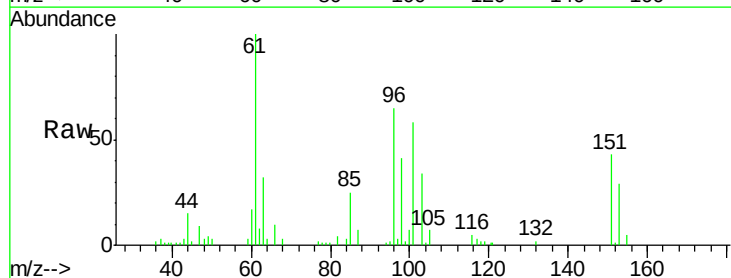
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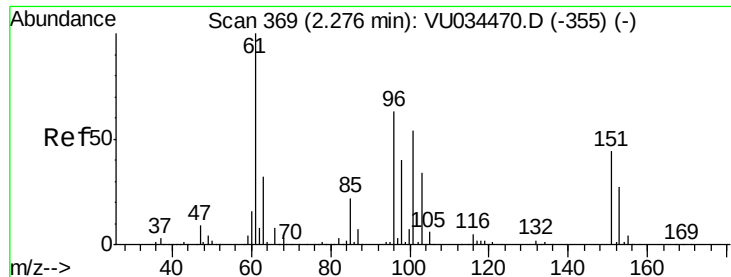
#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.784 ug/l  
RT: 2.28 min Scan# 370  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 41.3  | 34.2  | 51.2  |
| 151     | 72.5  | 65.2  | 97.8  |







#9

1,1-Dichloroethene

Concen: 0.807 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

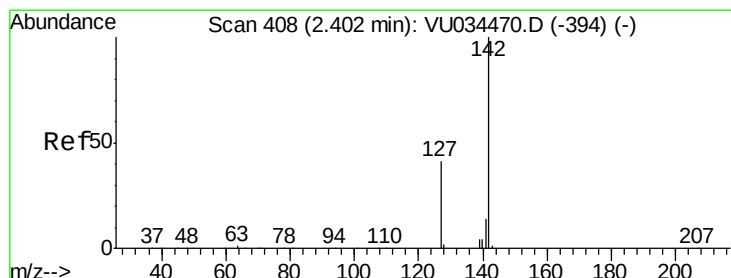
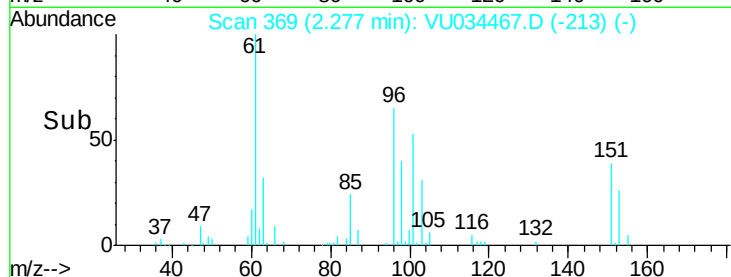
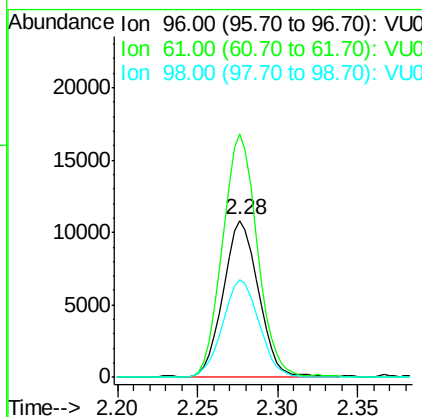
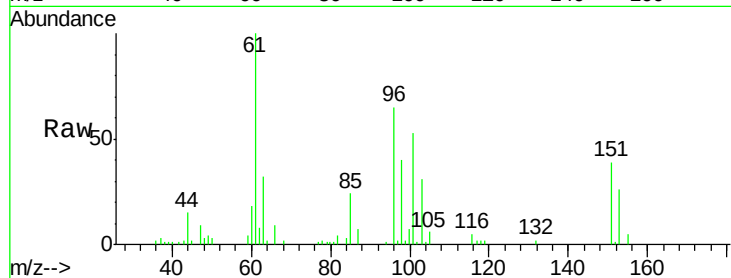
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 16346 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 154.9 | 0.0   | 475.5 |
| 98       | 62.1  | 0.0   | 127.6 |

Manual Integrations  
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#10

Iodomethane

Concen: 0.448 ug/l

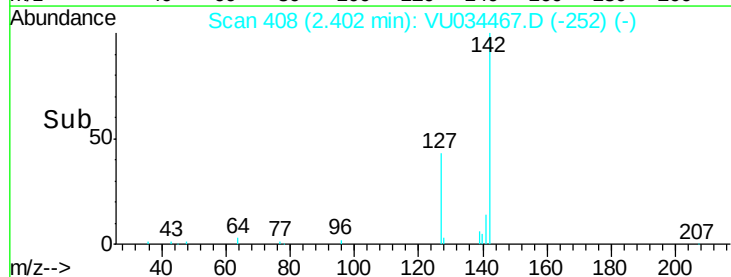
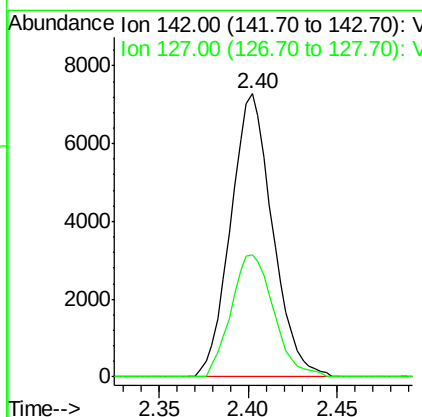
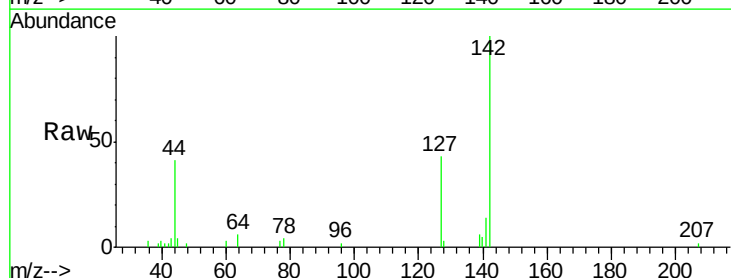
RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

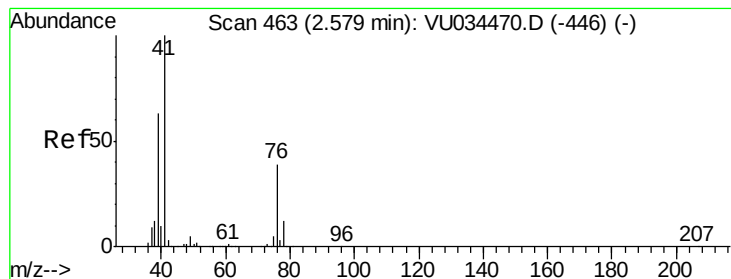
Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 11861 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 43.8  | 33.0  | 49.6  |







#11

Allvl Chloride

Concen: 0.781 ug/l

RT: 2.58 min Scan# 464

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 26090

Ion Ratio Lower Upper

41 100

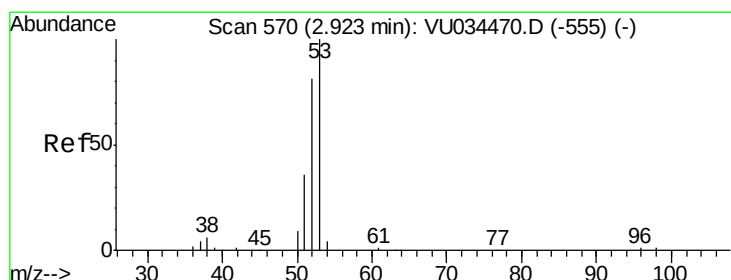
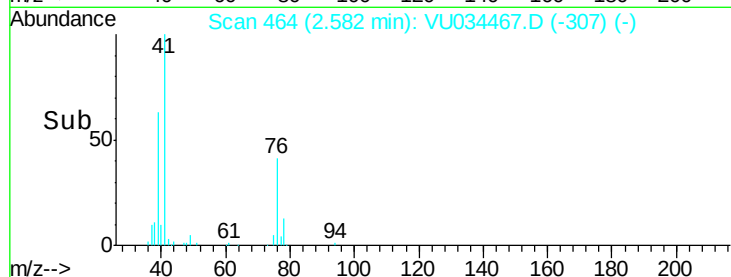
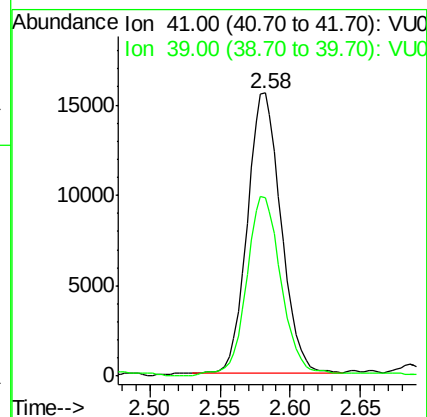
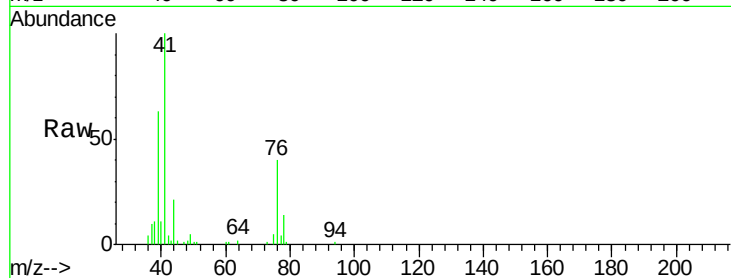
39 66.7 50.2 75.2

Manual Integrations

APPROVED

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9/12/2019 4:53:17 PM



#12

Acrylonitrile

Concen: 1.169 ug/l

RT: 2.92 min Scan# 570

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

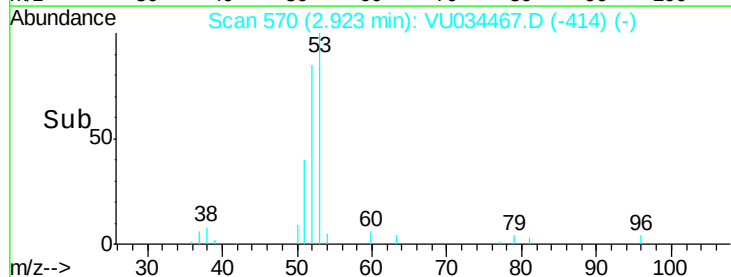
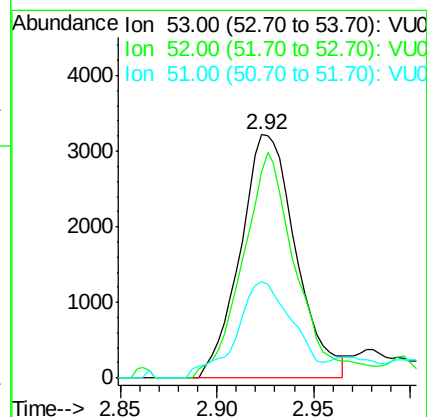
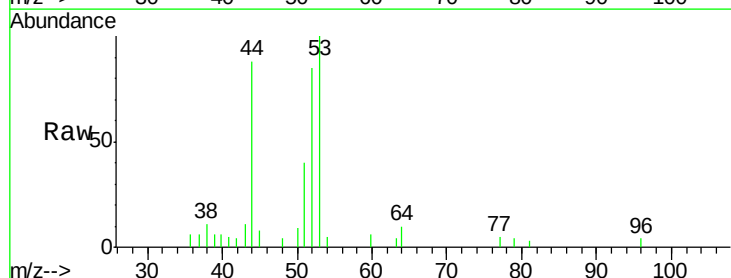
Tgt Ion: 53 Resp: 6430

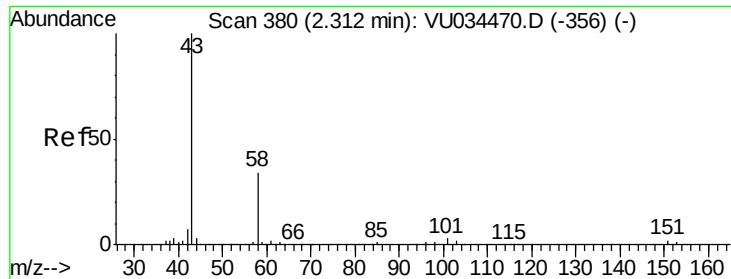
Ion Ratio Lower Upper

53 100

52 89.5 66.9 100.3

51 40.2 28.4 42.6





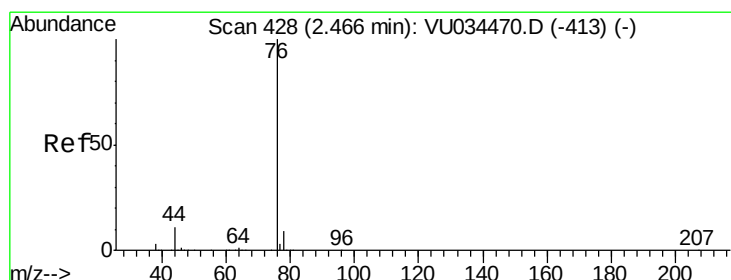
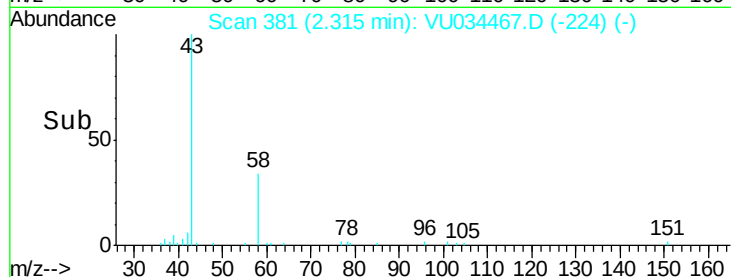
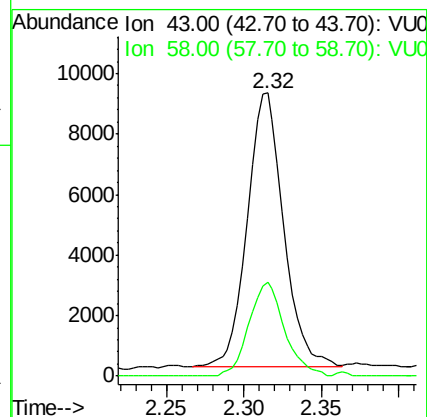
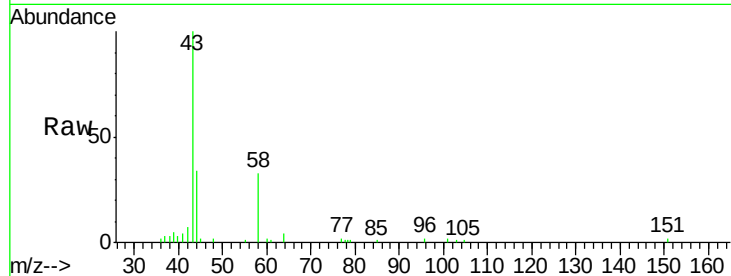
#13  
Acetone  
Concen: 3.118 ug/l  
RT: 2.32 min Scan# 381  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Tot Ion: 43 Resp: 14685  
Ion Ratio Lower Upper  
43 100  
58 34.4 26.9 40.3

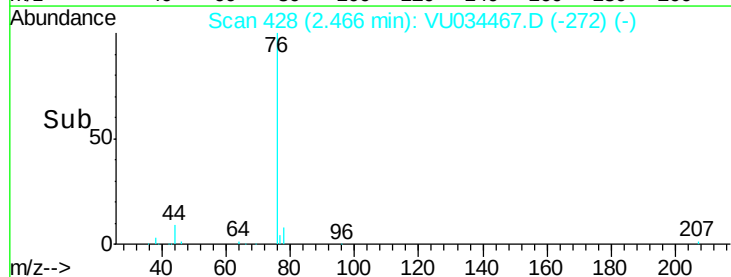
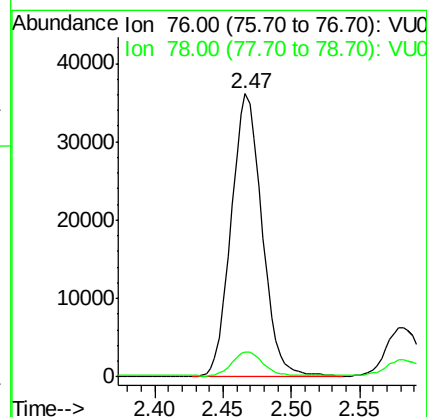
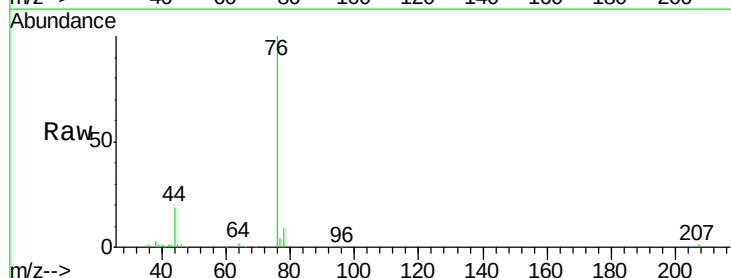
Manual Integrations  
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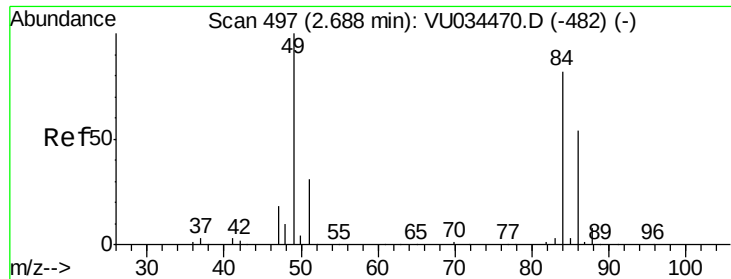
MMDadoda  
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#14  
Carbon Disulfide  
Concen: 0.746 ug/l  
RT: 2.47 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Tgt Ion: 76 Resp: 56984  
Ion Ratio Lower Upper  
76 100  
78 8.1 7.3 10.9





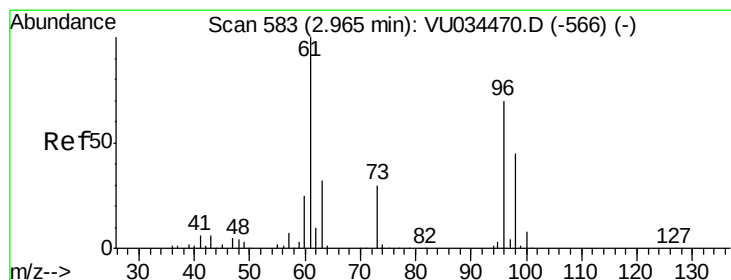
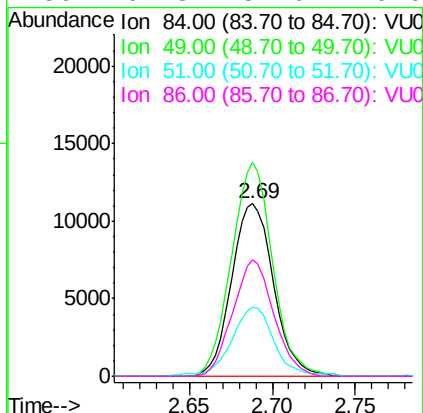
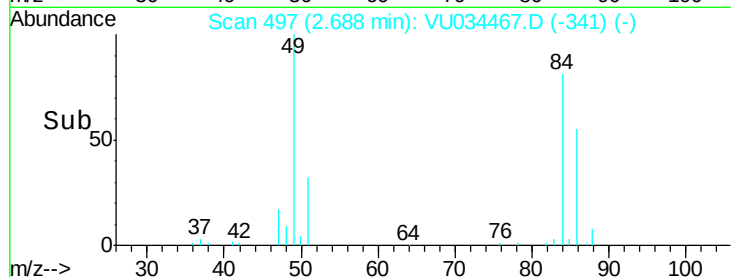
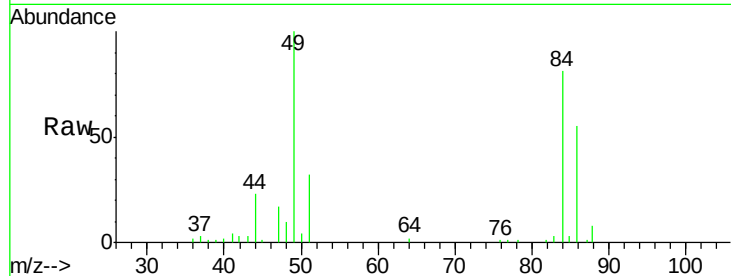
#15  
Methvlene Chloride  
Concen: 0.722 ug/l  
RT: 2.69 min Scan# 497  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | 84    | Resp  | 19547 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 84      | 100   |       |       |
| 49      | 124.0 | 97.8  | 146.6 |
| 51      | 39.3  | 0.0   | 76.4  |
| 86      | 67.8  | 52.6  | 79.0  |

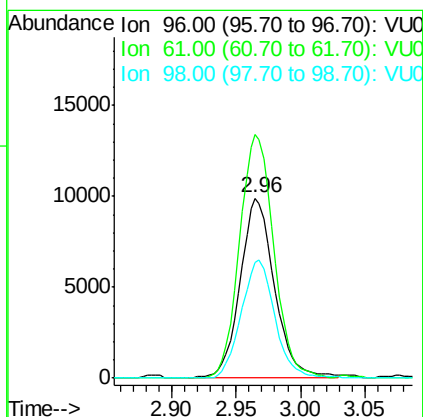
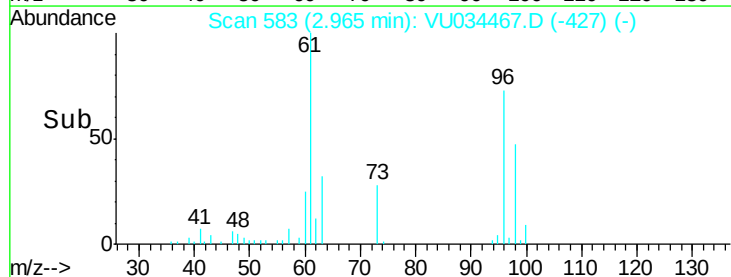
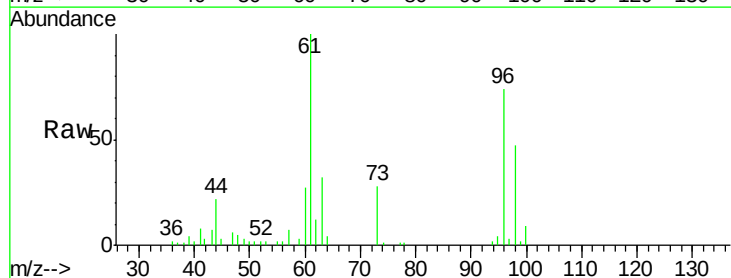
Manual Integrations  
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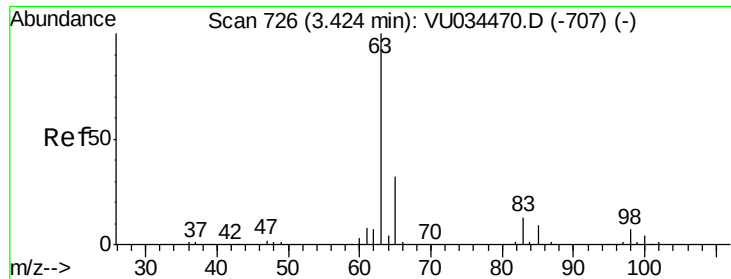
MMDadoda  
9/12/2019 4:53:17 PM



#16  
trans-1,2-Dichloroethene  
Concen: 0.769 ug/l  
RT: 2.96 min Scan# 583  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | 96    | Resp  | 18399 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 135.2 | 114.5 | 171.7 |
| 98      | 64.2  | 51.2  | 76.8  |





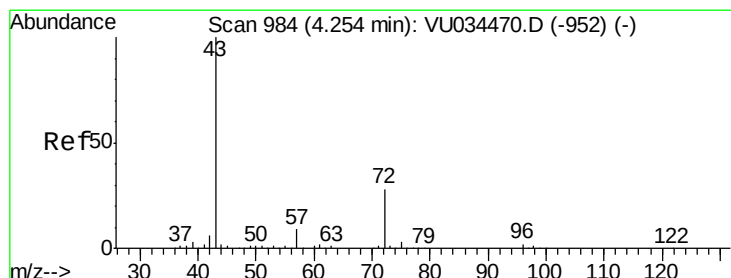
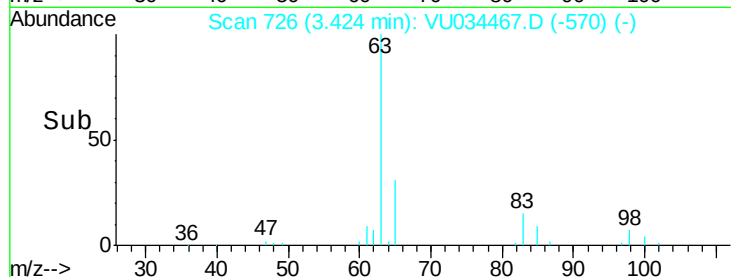
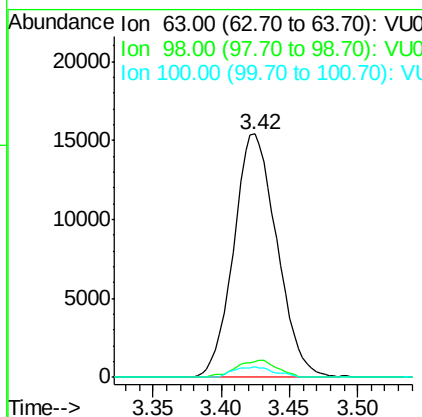
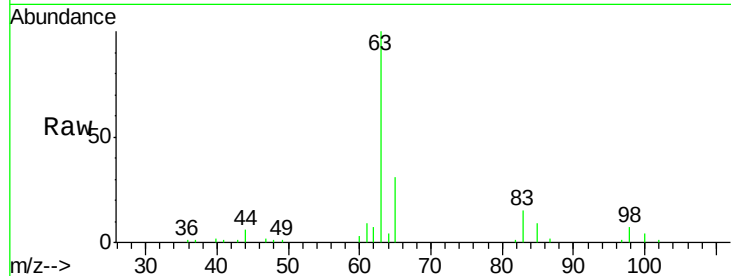
#17  
 1,1-Dichloroethane  
 Concen: 1.006 ug/l  
 RT: 3.42 min Scan# 726  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 6.5   | 3.5   | 10.4  |
| 100     | 4.2   | 2.3   | 6.8   |

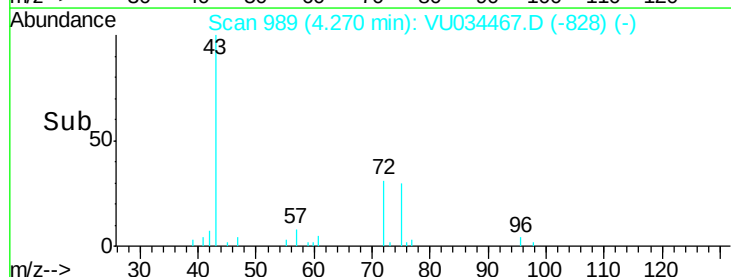
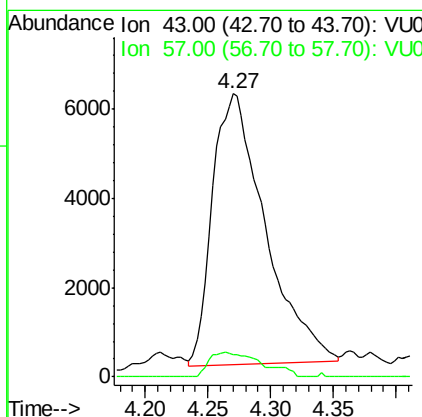
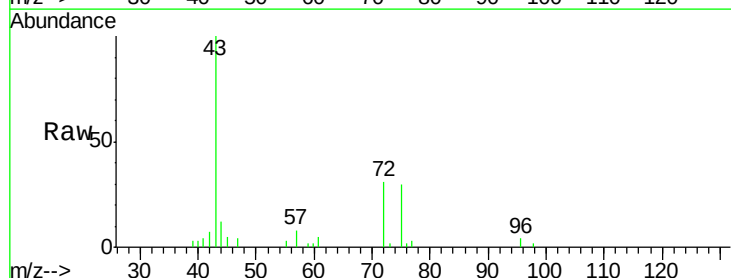
Manual Integrations  
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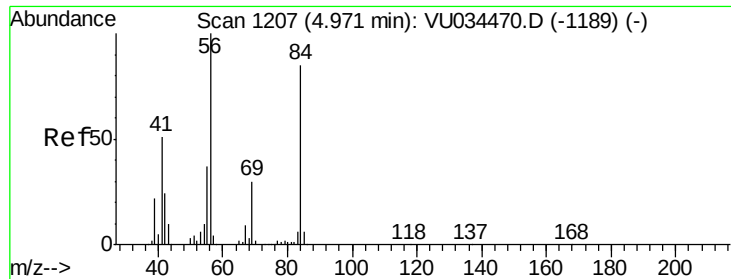
MMDadoda  
 9/12/2019 4:53:17 PM



#18  
 2-Butanone  
 Concen: 3.808 ug/l  
 RT: 4.27 min Scan# 989  
 Delta R.T. 0.02 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.4   | 0.0   | 17.8  |





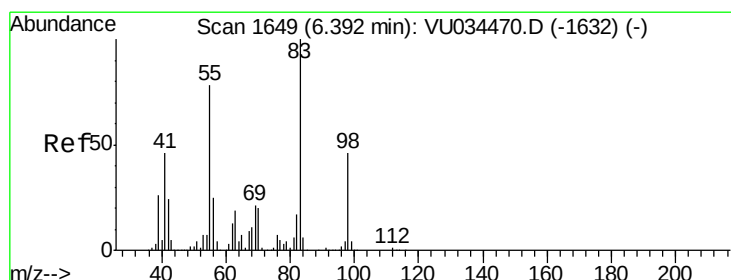
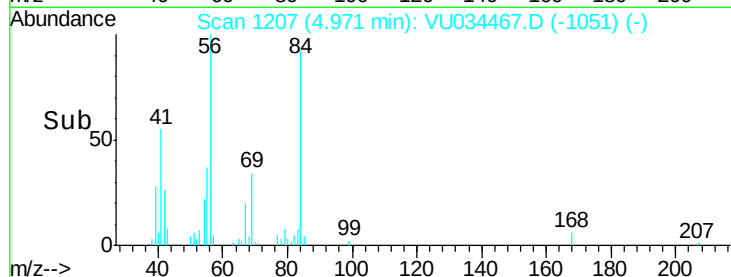
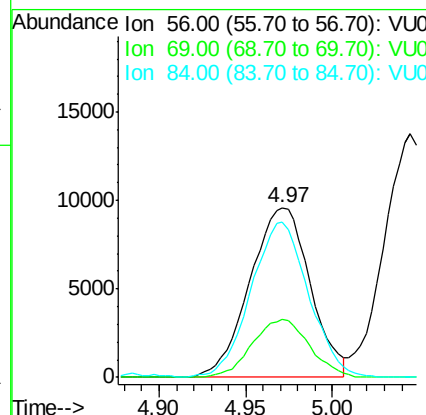
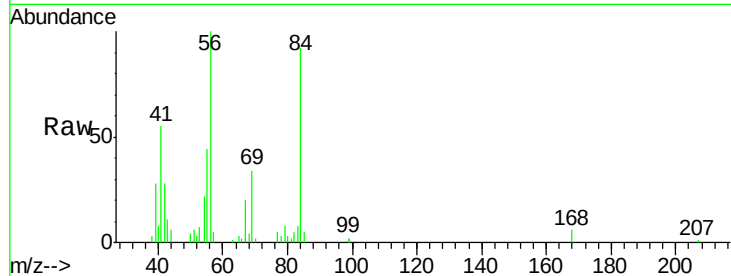
#19  
Cyclohexane  
Concen: 0.922 ug/l m  
RT: 4.97 min Scan# 1207  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 32.4  | 24.4  | 36.6  |
| 84      | 87.5  | 66.9  | 100.3 |

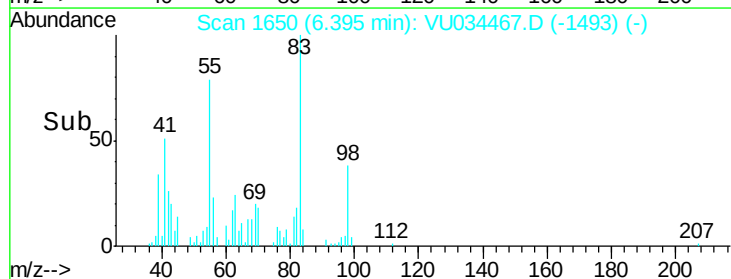
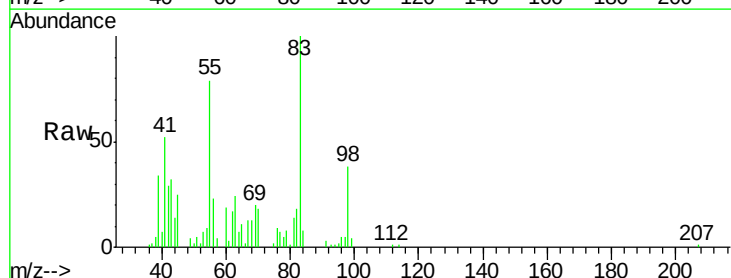
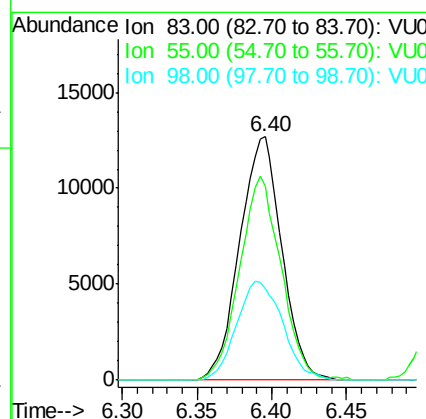
Manual Integrations  
APPROVED

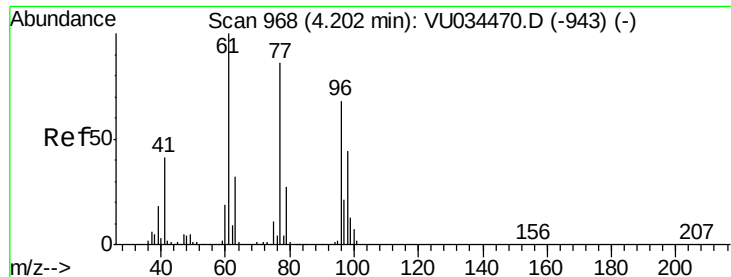
MMDadoda  
9/12/2019 4:53:17 PM



#20  
Methylcyclohexane  
Concen: 0.985 ug/l  
RT: 6.40 min Scan# 1650  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 80.6  | 61.7  | 92.5  |
| 98      | 44.1  | 36.0  | 54.0  |





#21

2,2-Dichloropropane

Concen: 1.011 ug/l

RT: 4.21 min Scan# 969

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 77 Resp: 28984

Ion Ratio Lower Upper

77 100

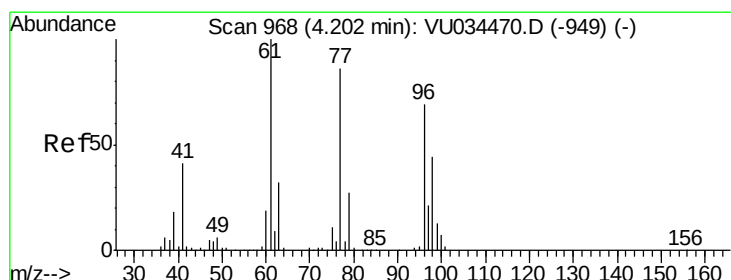
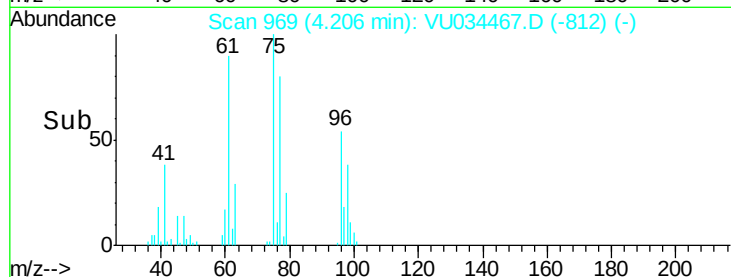
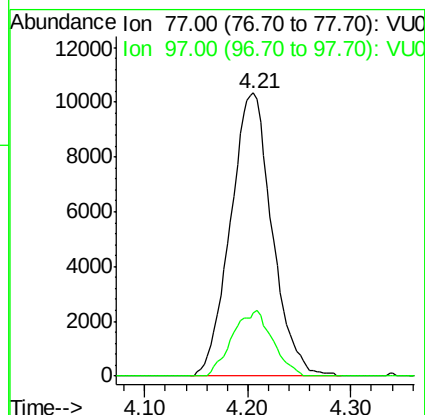
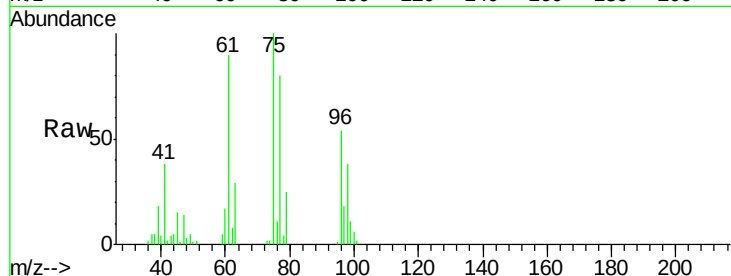
97 22.3 18.9 28.3

Manual Integrations

APPROVED

MMDadoda

9/12/2019 4:53:17 PM



#22

cis-1,2-Dichloroethene

Concen: 0.987 ug/l

RT: 4.21 min Scan# 971

Delta R.T. 0.01 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

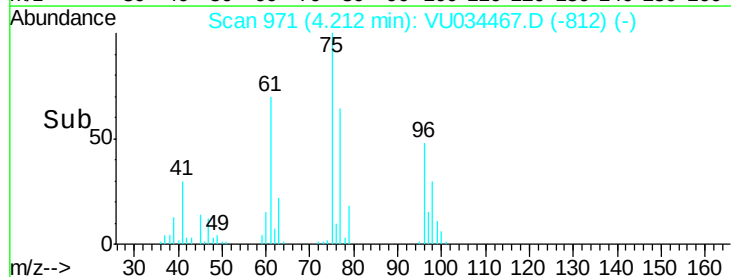
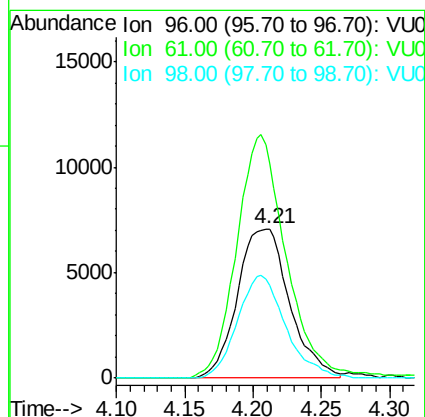
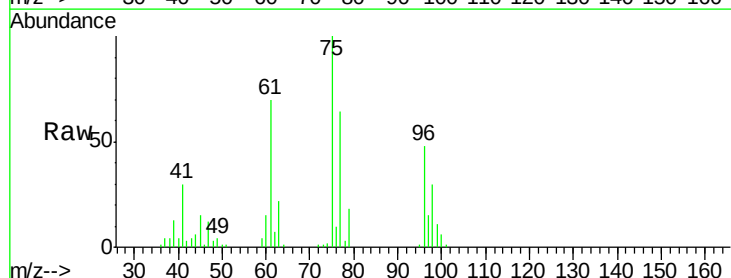
Tgt Ion: 96 Resp: 18790

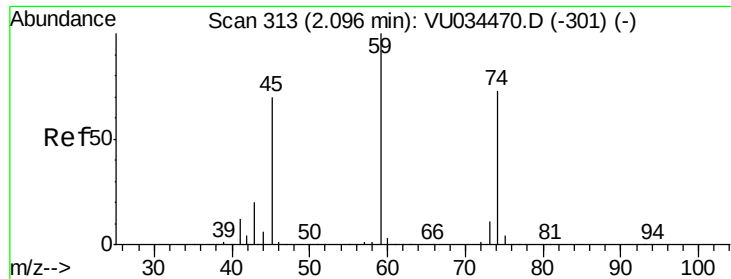
Ion Ratio Lower Upper

96 100

61 155.5 0.0 369.5

98 63.7 32.4 97.2





#23

Diethyl Ether

Concen: 0.685 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

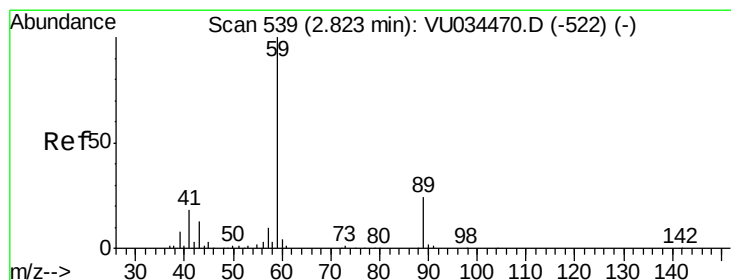
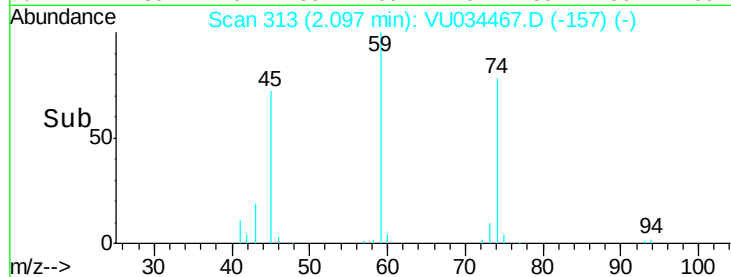
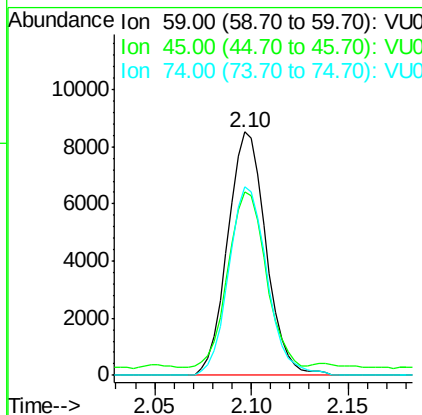
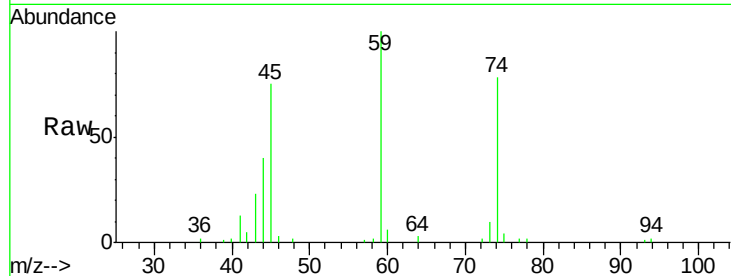
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 59    | Resp: | 11732 |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 45       | 71.1  | 56.3  | 84.5  |
| 74       | 77.6  | 58.2  | 87.2  |

Manual Integrations  
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MMDadoda  
9/12/2019 4:53:17 PM



#24

tert-Butyl Alcohol

Concen: 7.231 ug/l

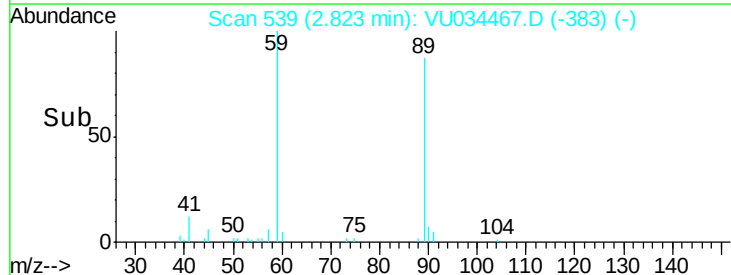
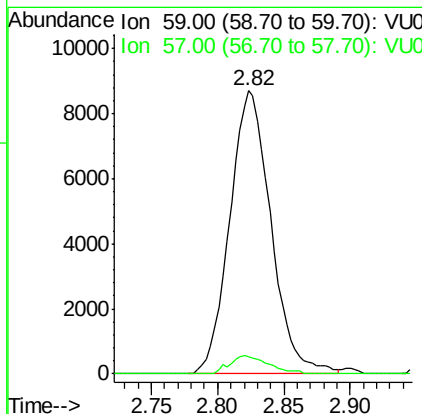
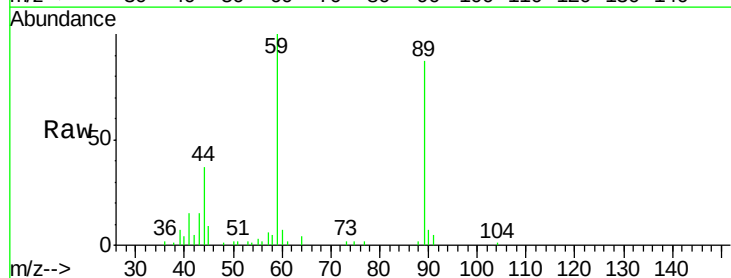
RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

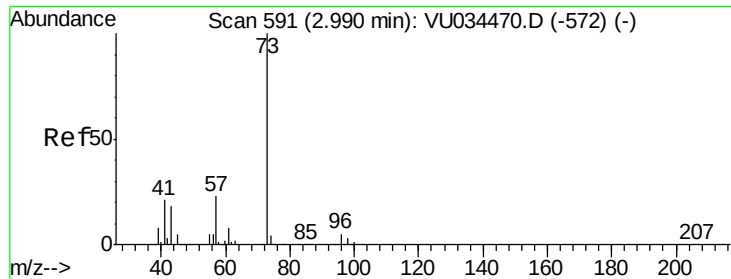
Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 18802 |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 6.2   | 7.3   | 10.9# |







#25

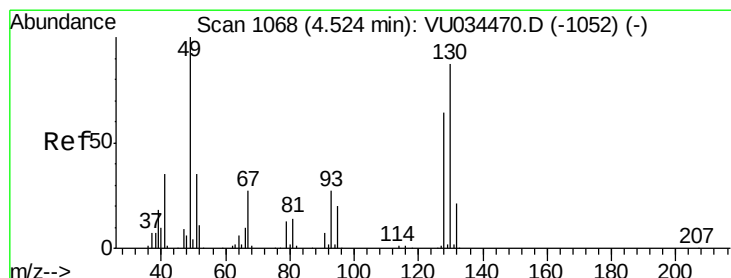
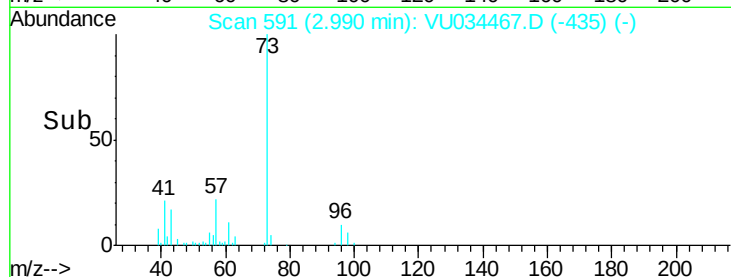
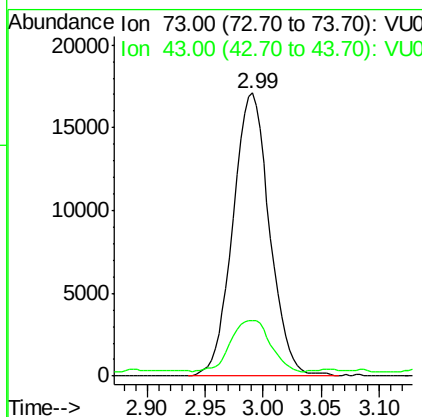
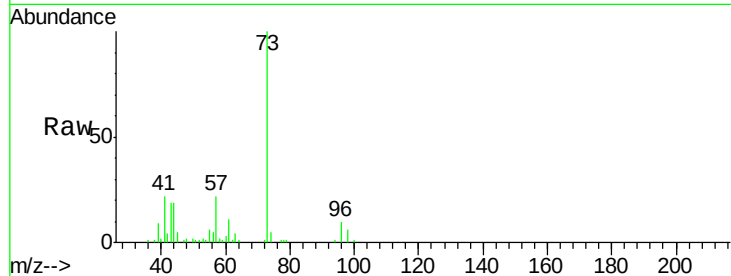
Methyl tert-Butyl Ether  
 Concen: 0.658 ug/l  
 RT: 2.99 min Scan# 591  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 19.6  | 14.4  | 21.6  |

Manual Integrations  
 APPROVED

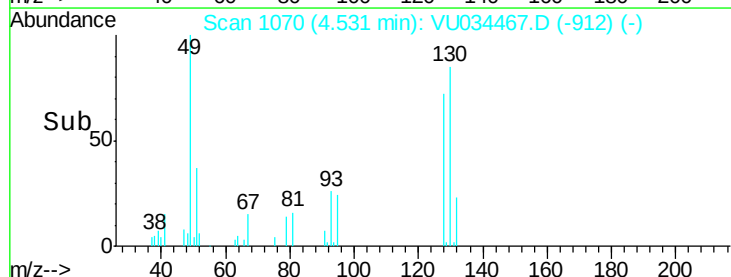
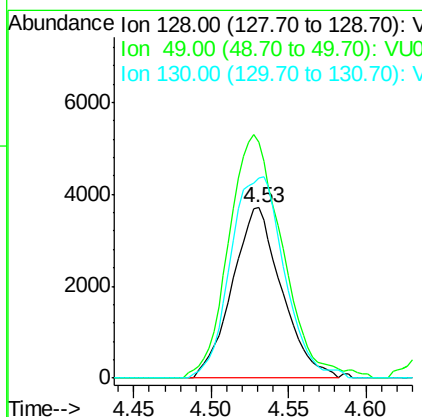
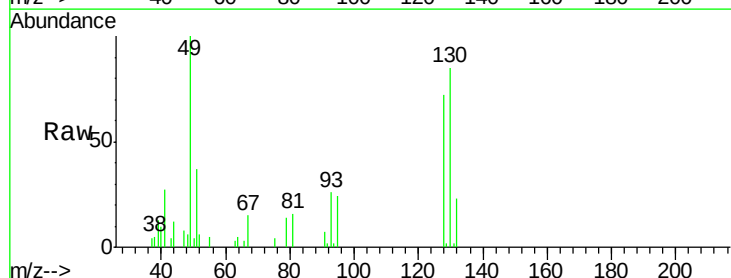
MMDadoda  
 9/12/2019 4:53:17 PM

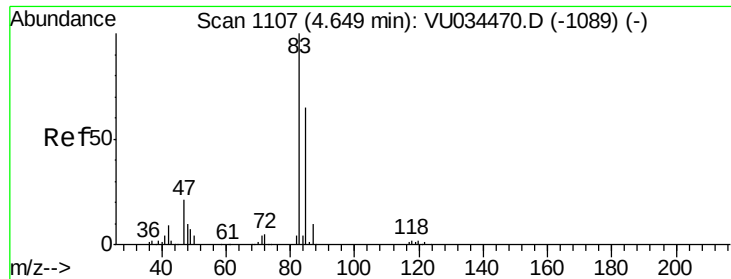


#26

Bromochloromethane  
 Concen: 0.995 ug/l  
 RT: 4.53 min Scan# 1070  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 154.6 | 0.0   | 309.8 |
| 130     | 129.1 | 105.0 | 157.6 |





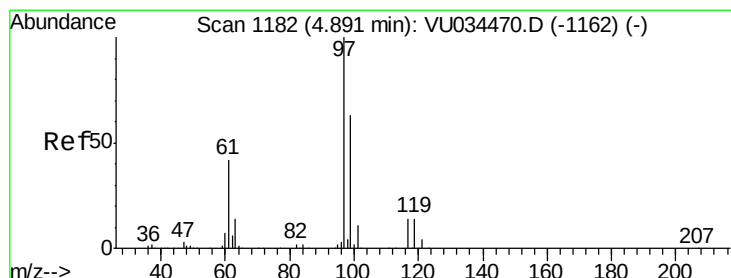
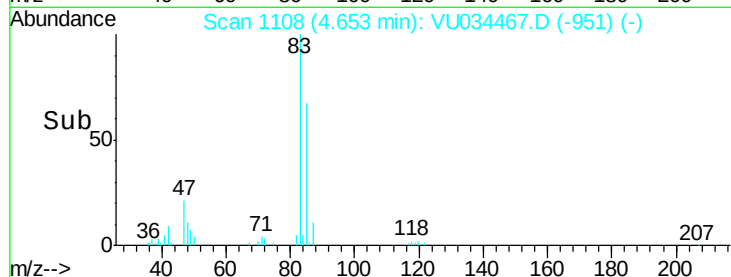
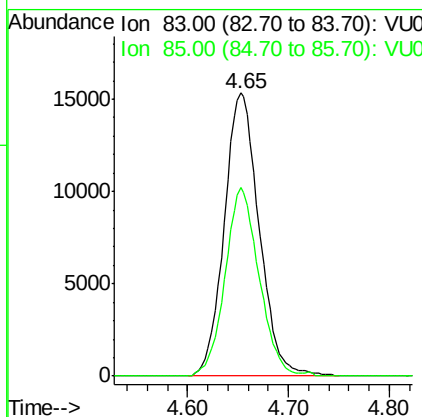
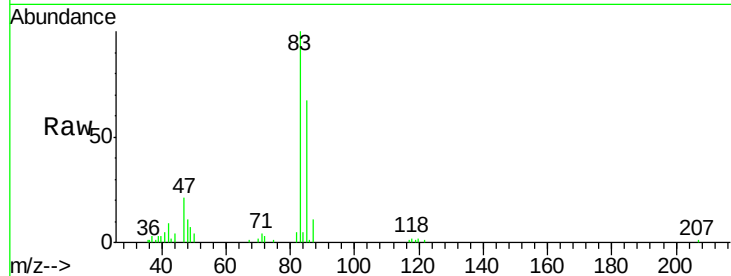
#27  
Chloroform  
Concen: 0.974 ug/l  
RT: 4.65 min Scan# 1108  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion   | 83   | Resp  | 37006 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 66.7 | 0.0   | 130.2 |

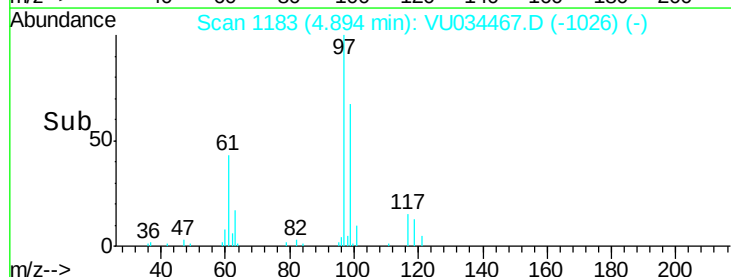
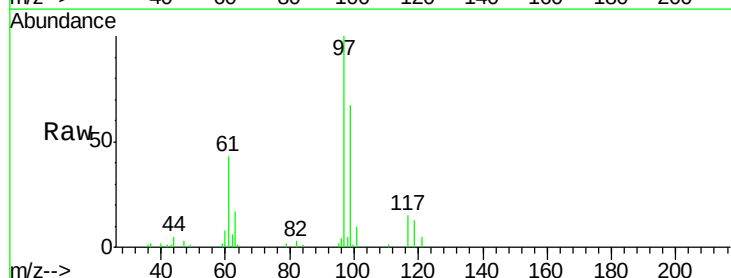
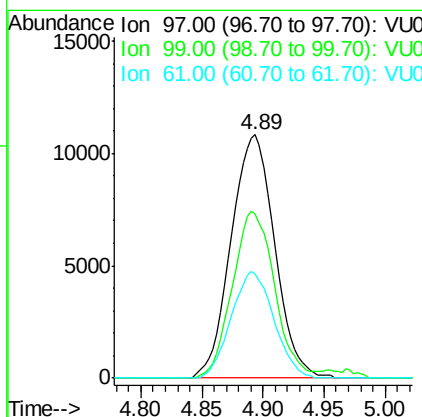
Manual Integrations  
APPROVED

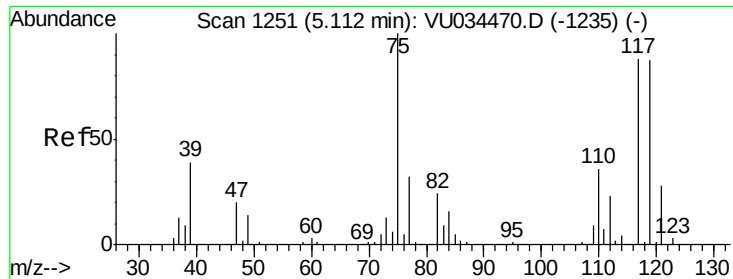
MMDadoda  
9/12/2019 4:53:17 PM



#28  
1,1,1-Trichloroethane  
Concen: 0.915 ug/l  
RT: 4.89 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion   | 97   | Resp  | 26867 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 99        | 66.4 | 32.0  | 96.2  |
| 61        | 42.6 | 21.4  | 64.3  |





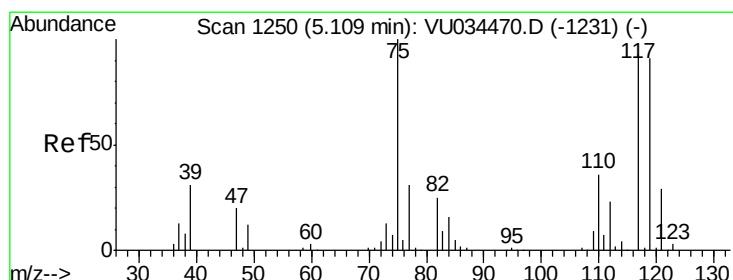
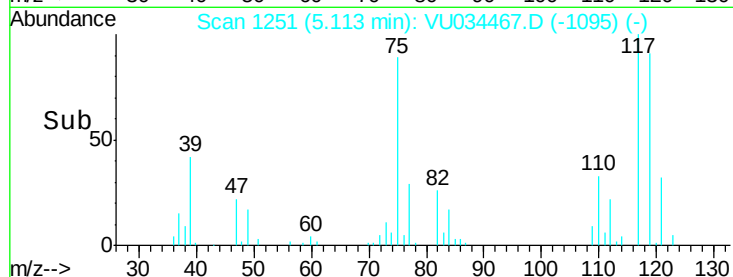
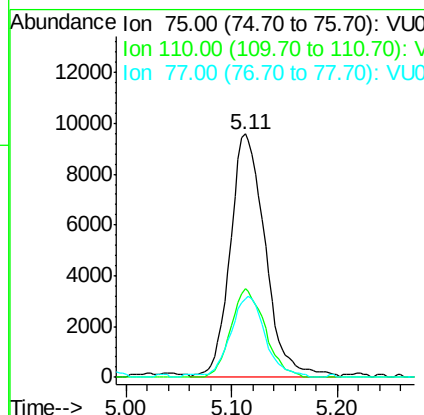
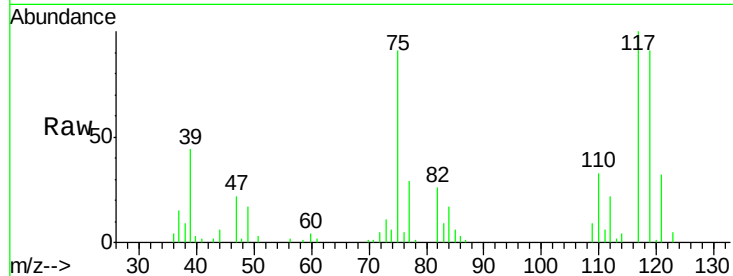
#29  
1,1-Dichloropropene  
Concen: 0.909 ug/l  
RT: 5.11 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.4  | 18.4  | 55.2  |
| 77      | 32.9  | 25.0  | 37.6  |

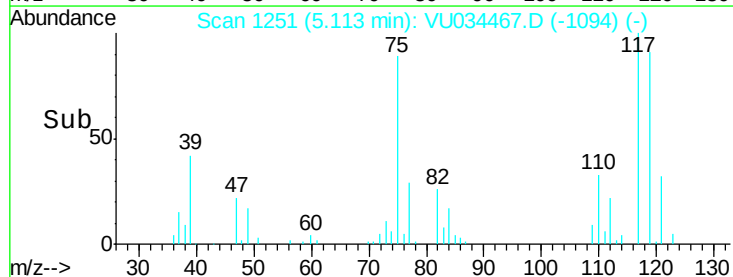
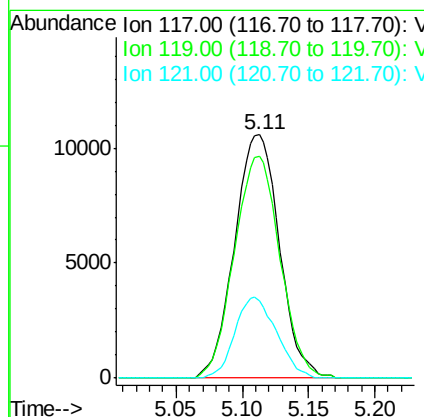
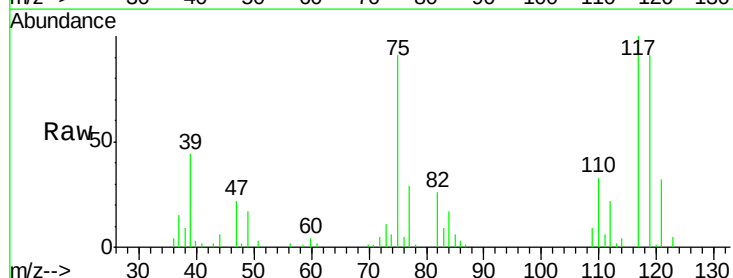
Manual Integrations  
APPROVED

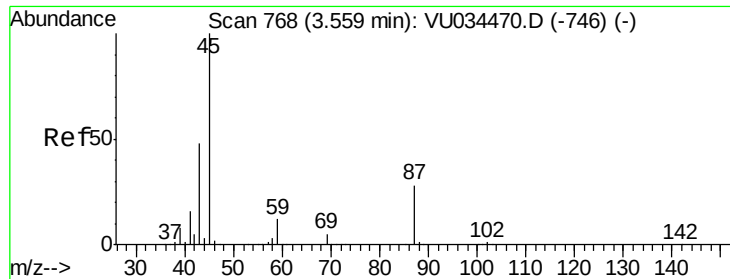
MMDadoda  
9/12/2019 4:53:17 PM



#30  
Carbon Tetrachloride  
Concen: 0.960 ug/l  
RT: 5.11 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 91.3  | 78.5  | 117.7 |
| 121     | 31.9  | 25.3  | 37.9  |





#31

Isopropyl Ether

Concen: 1.065 ug/l

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 46407

Ion Ratio Lower Upper

45 100

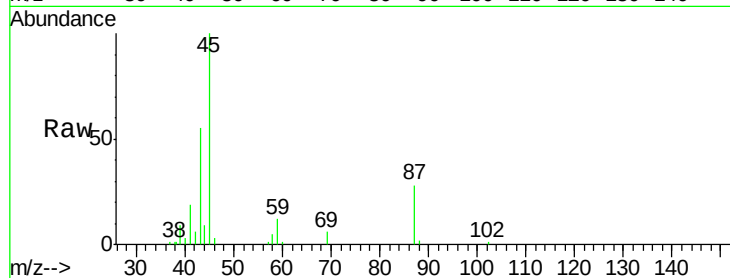
43 54.6 24.8 74.3

Manual Integrations

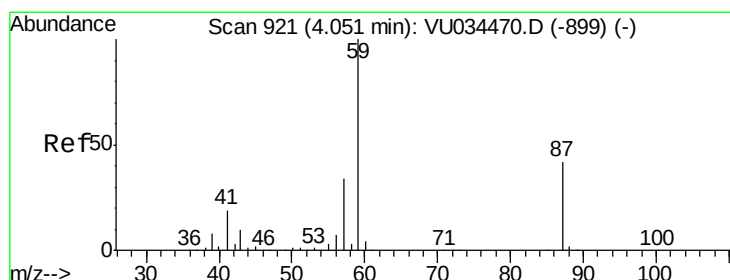
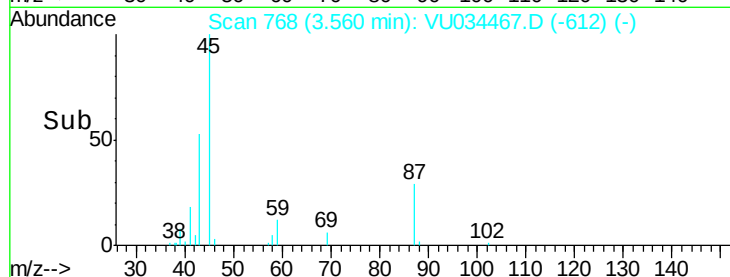
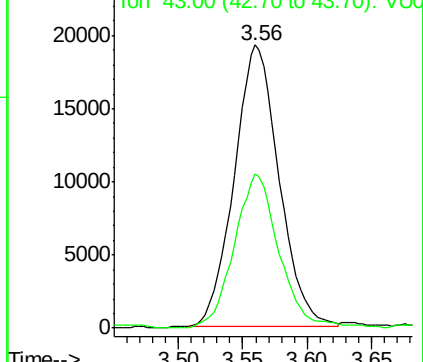
APPROVED

MMDadoda

9/12/2019 4:53:17 PM



Abundance Ion 45.00 (44.70 to 45.70): VU034467.D (-612) (-)



#32

Ethyl-t-butyl ether

Concen: 0.974 ug/l

RT: 4.05 min Scan# 922

Delta R.T. 0.00 min

Lab File: VU034467.D

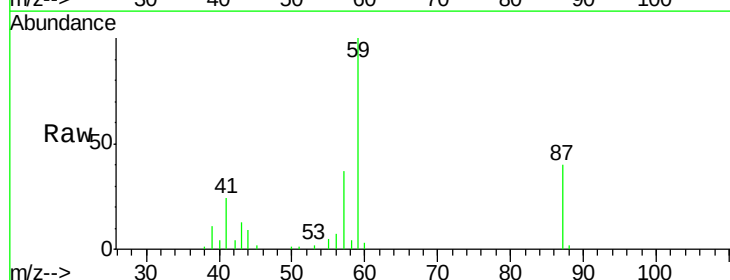
Acq: 11 Sep 2019 10:13

Tgt Ion: 59 Resp: 39934

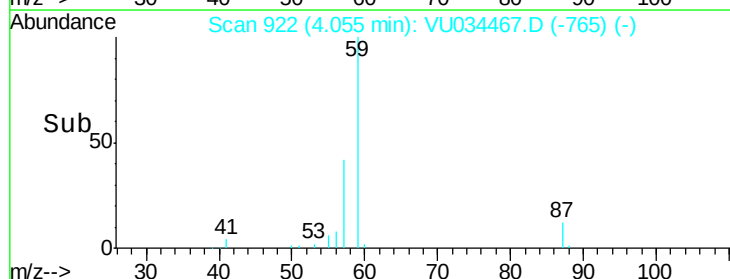
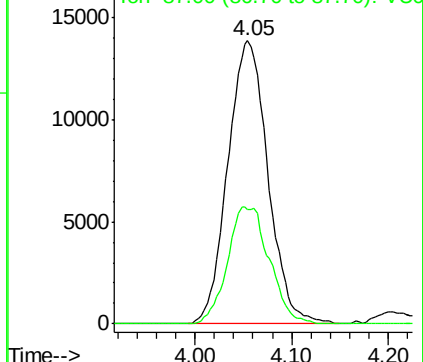
Ion Ratio Lower Upper

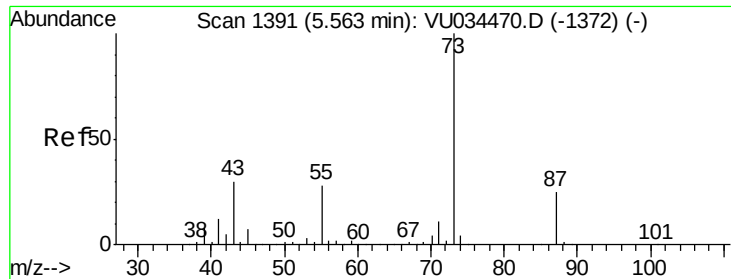
59 100

87 42.8 33.6 50.4



Abundance Ion 59.00 (58.70 to 59.70): VU034467.D (-765) (-)





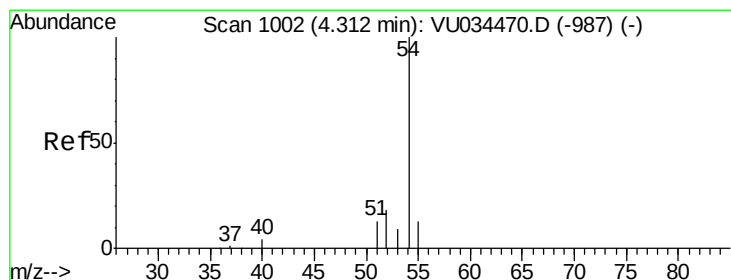
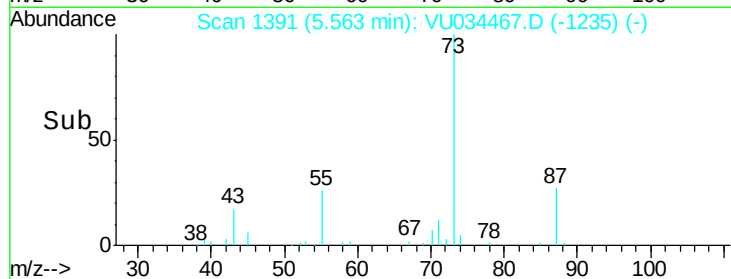
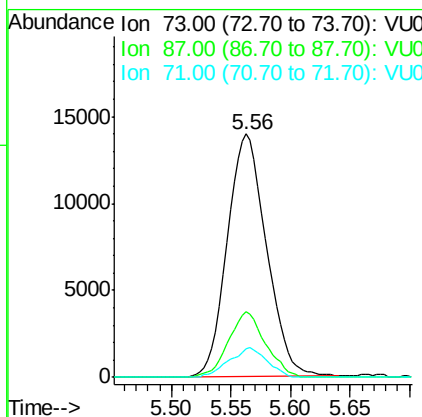
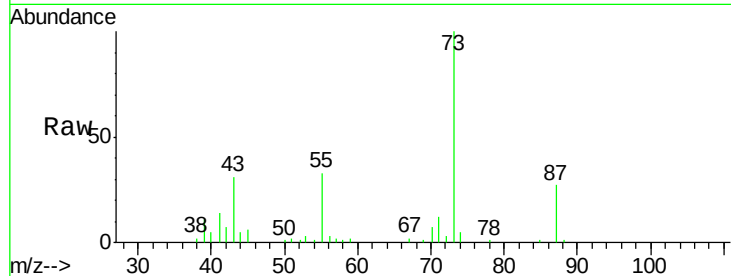
#33  
Tert-Butyl methyl ether  
Concen: 0.877 ug/l  
RT: 5.56 min Scan# 1391  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 25.5  | 19.4  | 29.0  |
| 71      | 11.8  | 9.3   | 13.9  |

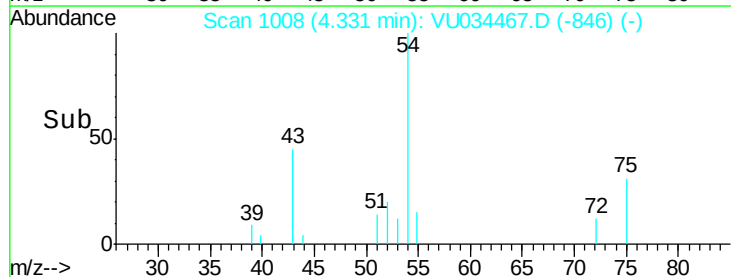
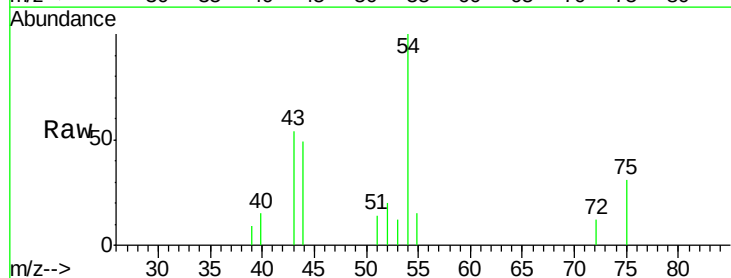
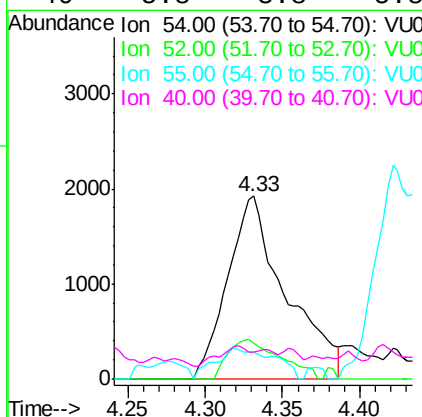
Manual Integrations  
APPROVED

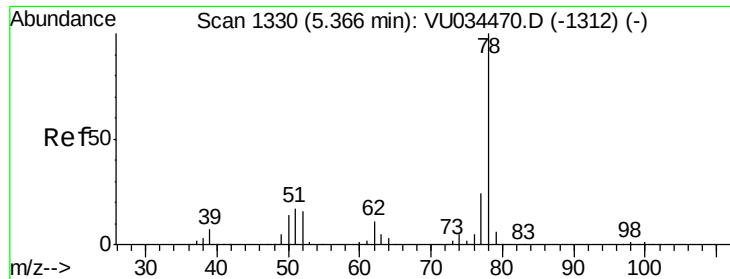
MMDadoda  
9/12/2019 4:53:17 PM



#34  
Propionitrile  
Concen: 3.801 ug/l  
RT: 4.33 min Scan# 1008  
Delta R.T. 0.02 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 19.3  | 14.1  | 21.1  |
| 55      | 17.0  | 13.3  | 19.9  |
| 40      | 5.8   | 3.8   | 5.8#  |





#35

Benzene

Concen: 0.972 ug/l

RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 78 Resp: 68892

Ion Ratio Lower Upper

78 100

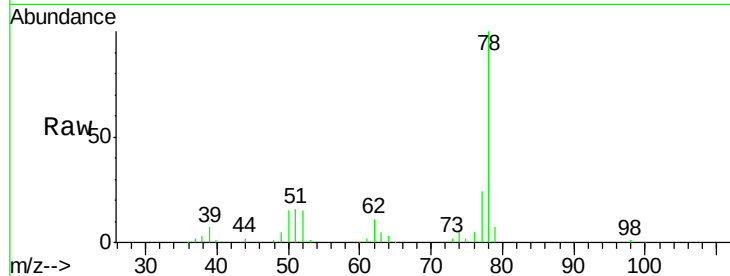
77 24.0 19.3 28.9

Manual Integrations

APPROVED

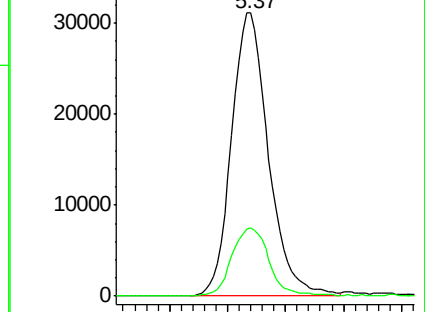
MMDadoda

9/12/2019 4:53:17 PM

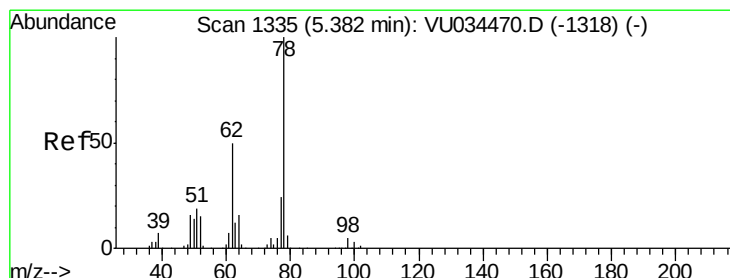
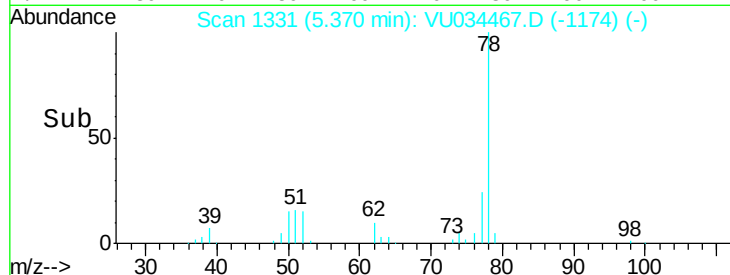


Abundance Ion 78.10 (77.80 to 78.80): VU034467.D (-1174) (-)

Ion 77.00 (76.70 to 77.70): VU034467.D (-1174) (-)



Time-->



#36

1,2-Dichloroethane

Concen: 0.808 ug/l

RT: 5.39 min Scan# 1337

Delta R.T. 0.01 min

Lab File: VU034467.D

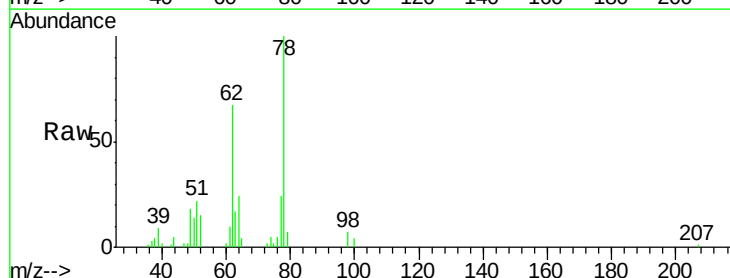
Acq: 11 Sep 2019 10:13

Tgt Ion: 62 Resp: 18383

Ion Ratio Lower Upper

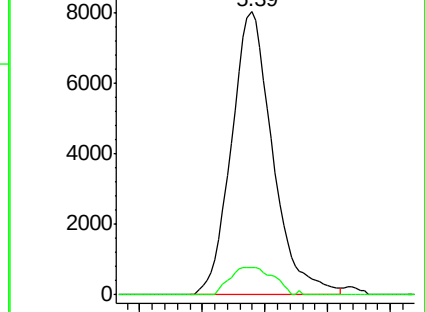
62 100

98 10.2 8.0 12.0

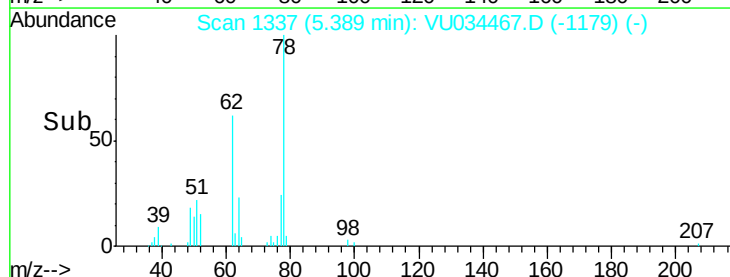


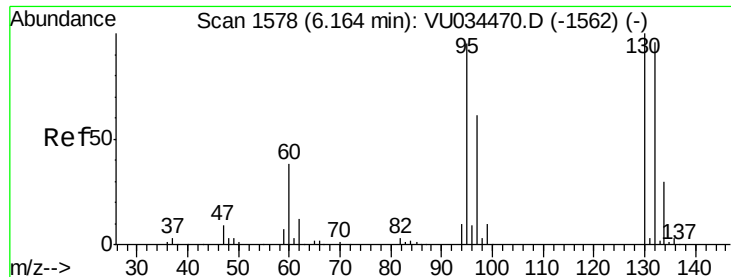
Abundance Ion 62.00 (61.70 to 62.70): VU034467.D (-1179) (-)

Ion 98.00 (97.70 to 98.70): VU034467.D (-1179) (-)



Time-->





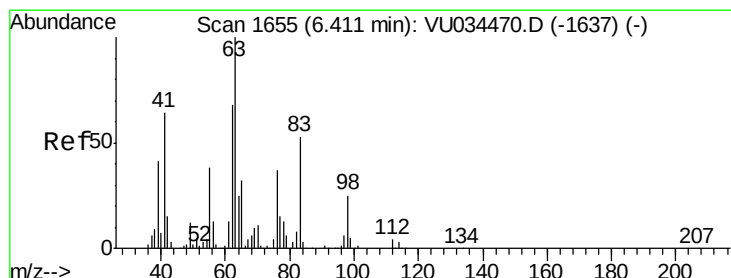
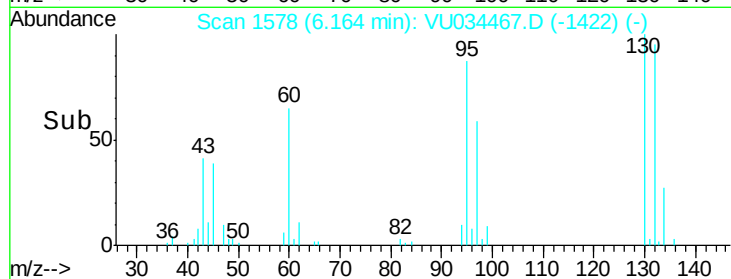
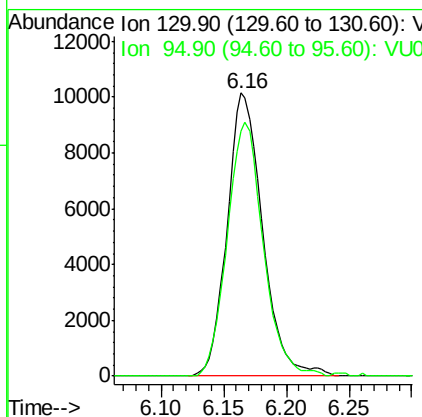
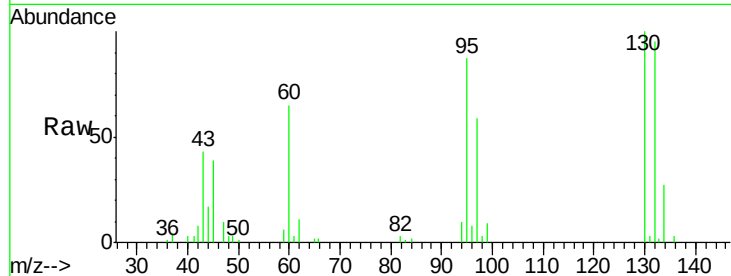
#37  
 Trichloroethene  
 Concen: 1.053 ug/l  
 RT: 6.16 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Tot Ion:130 Resp: 19923  
 Ion Ratio Lower Upper  
 130 100  
 95 86.7 76.3 114.5

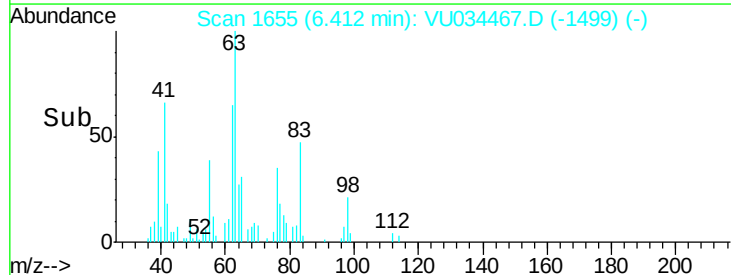
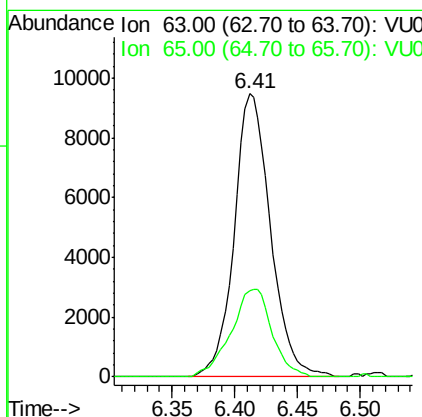
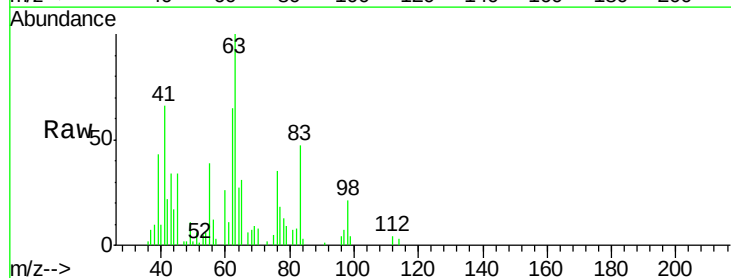
Manual Integrations  
 APPROVED

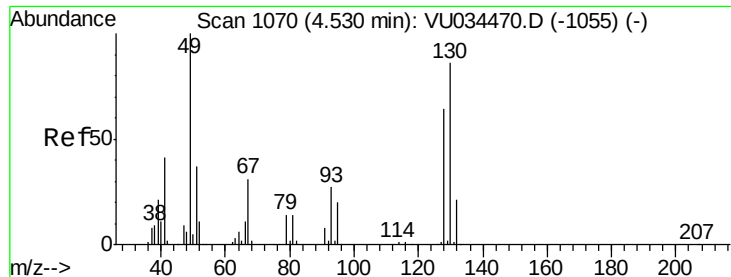
MMDadoda  
 9/12/2019 4:53:17 PM



#38  
 1,2-Dichloropropane  
 Concen: 0.983 ug/l  
 RT: 6.41 min Scan# 1655  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Tgt Ion: 63 Resp: 19090  
 Ion Ratio Lower Upper  
 63 100  
 65 30.7 25.4 38.2





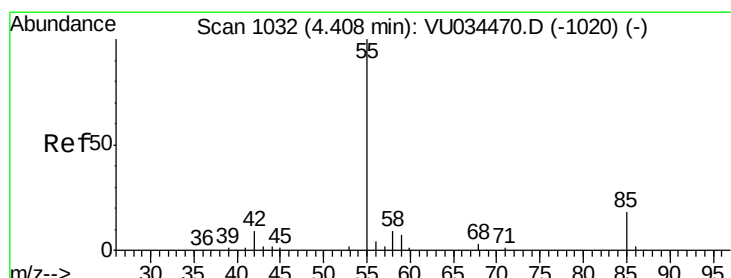
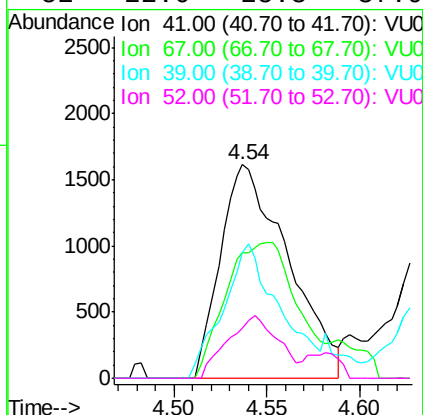
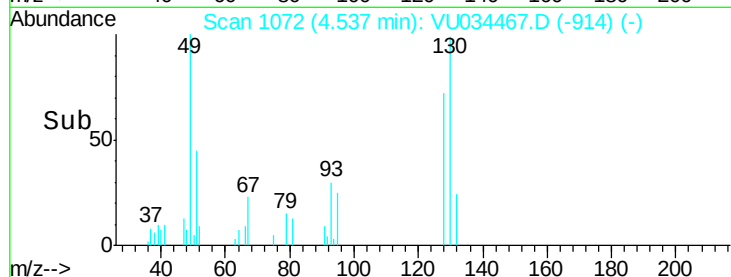
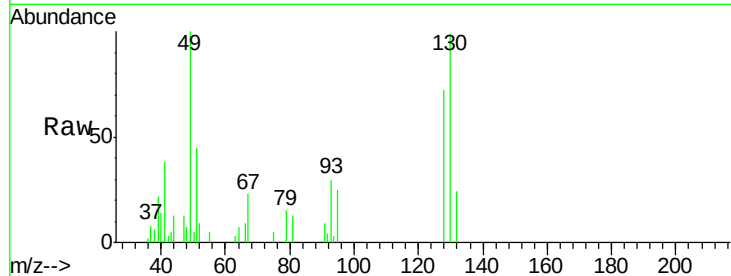
#39  
Methacrylonitrile  
Concen: 0.769 ug/l  
RT: 4.54 min Scan# 1072  
Delta R.T. 0.01 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC001

| Tot Ion | 41    | Resp  | 4085  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 41      | 100   |       |       |
| 67      | 67.1  | 62.6  | 94.0  |
| 39      | 52.9  | 41.6  | 62.4  |
| 52      | 22.0  | 25.3  | 37.9# |

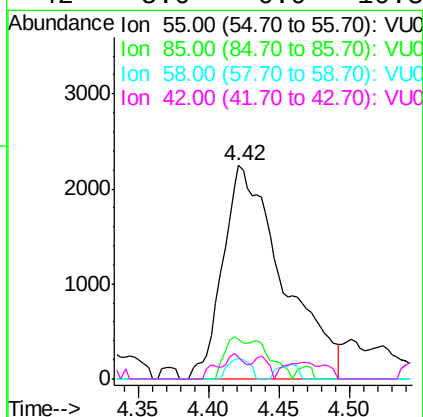
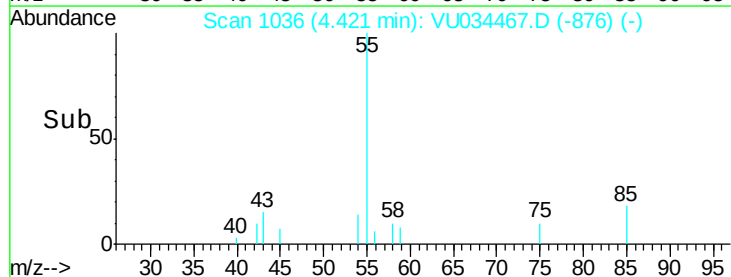
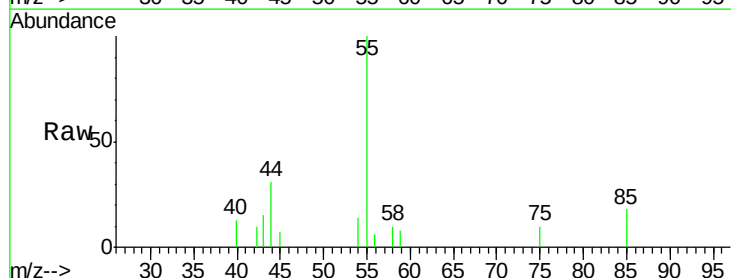
Manual Integrations  
APPROVED

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9/12/2019 4:53:17 PM

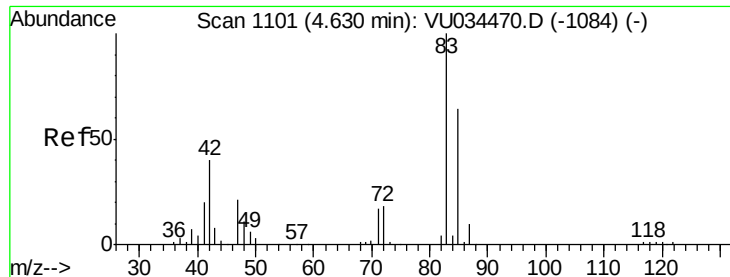


#40  
Methyl acrylate  
Concen: 0.808 ug/l  
RT: 4.42 min Scan# 1036  
Delta R.T. 0.01 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | 55    | Resp  | 6663  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 55      | 100   |       |       |
| 85      | 0.0   | 13.8  | 20.6# |
| 58      | 3.5   | 7.0   | 10.6# |
| 42      | 5.0   | 6.9   | 10.3# |







#41

Tetrahydrofuran

Concen: 1.627 ug/l

RT: 4.64 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

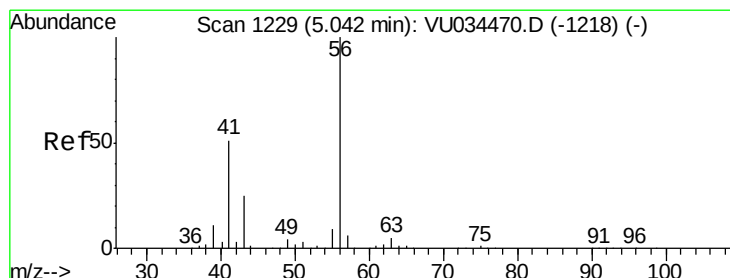
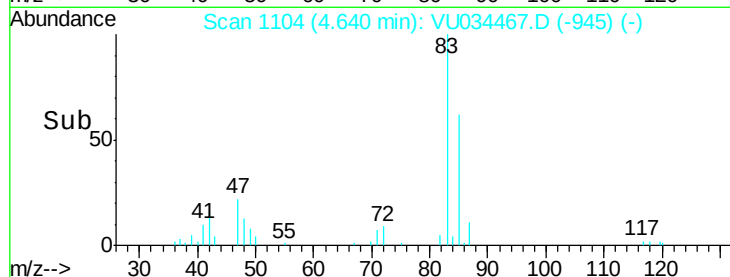
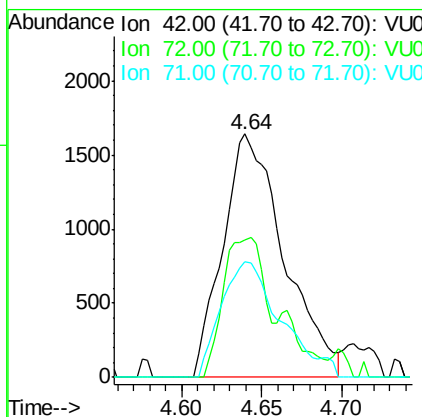
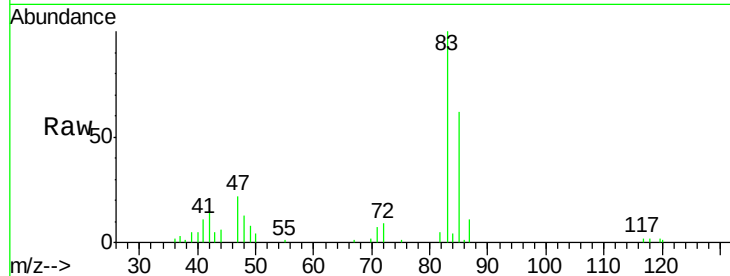
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 4316  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 39.4  | 39.6  | 59.4# |
| 71       | 44.5  | 33.6  | 50.4  |

Manual Integrations  
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9/12/2019 4:53:17 PM



#42

1-Chlorobutane

Concen: 0.912 ug/l

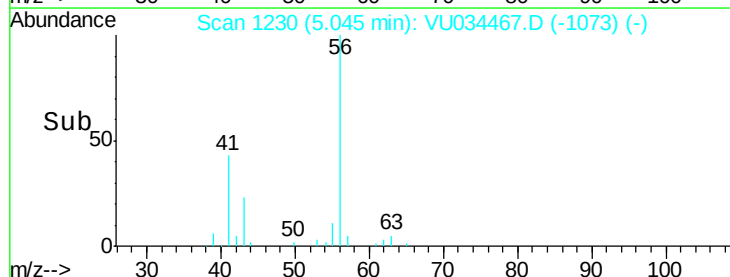
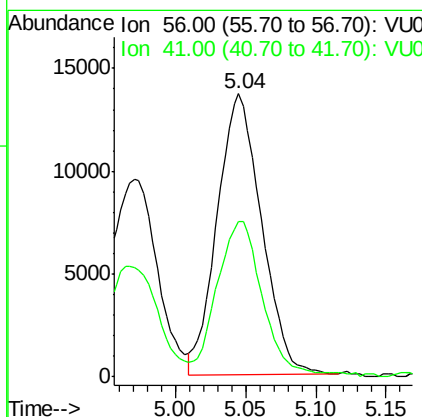
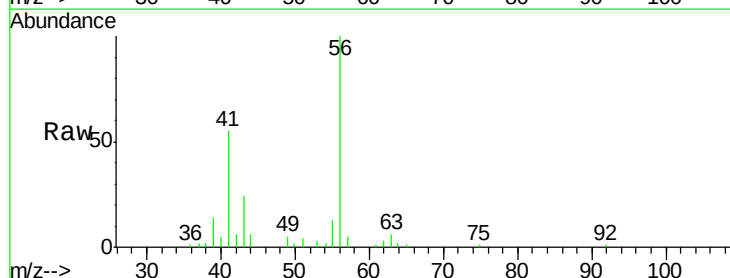
RT: 5.04 min Scan# 1230

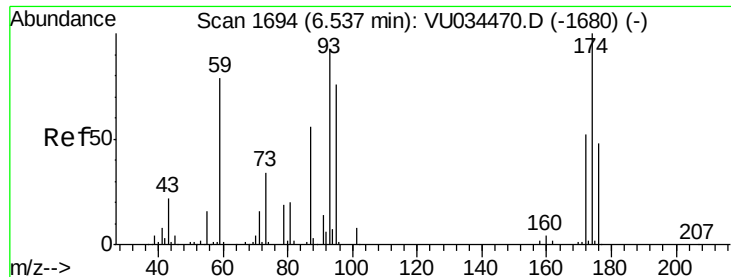
Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 30023 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 41       | 54.1  | 25.5  | 76.5  |





#43

Dibromomethane

Concen: 0.851 ug/l

RT: 6.54 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

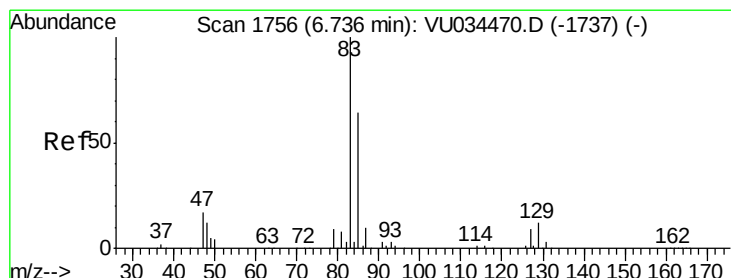
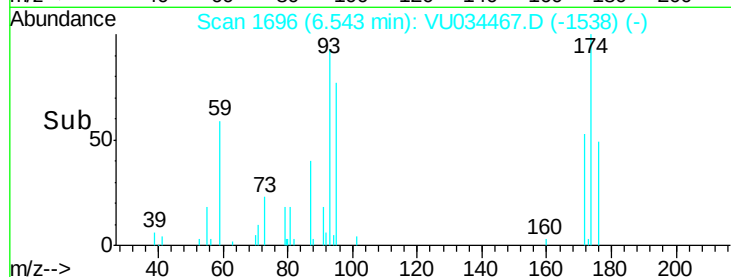
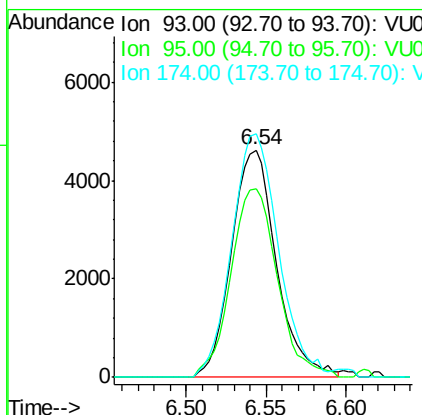
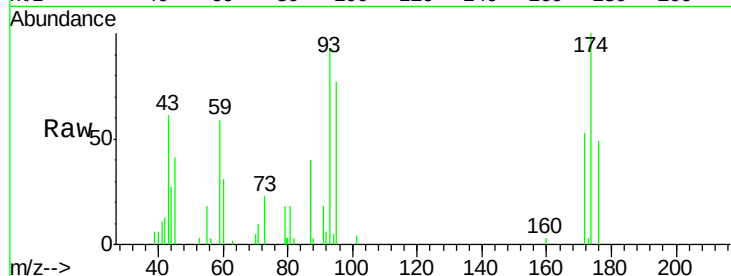
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 93    | Resp: | 8889  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 95       | 85.6  | 67.1  | 100.7 |
| 174      | 110.8 | 88.7  | 133.1 |

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#44

Bromodichloromethane

Concen: 0.893 ug/l

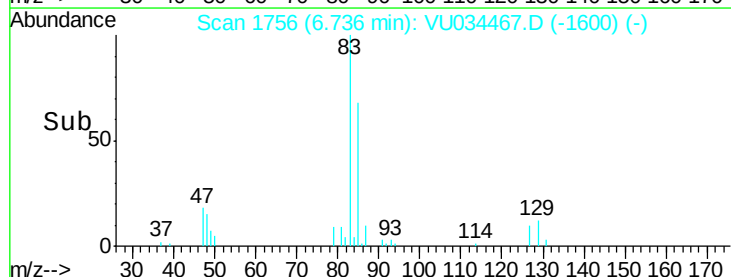
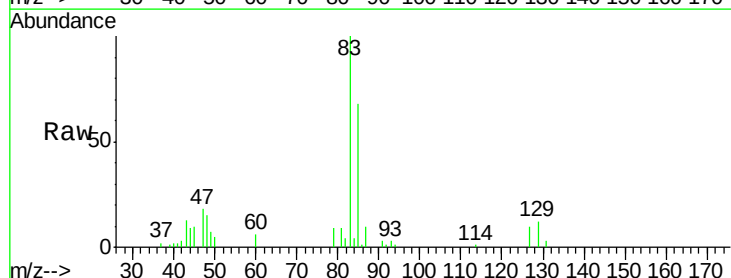
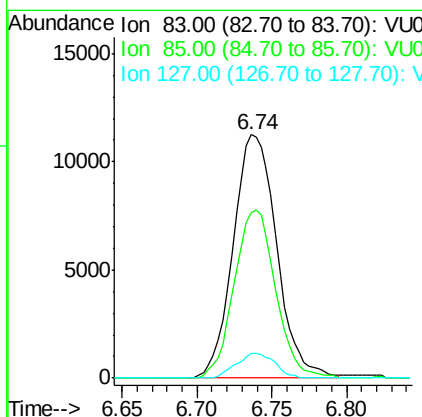
RT: 6.74 min Scan# 1756

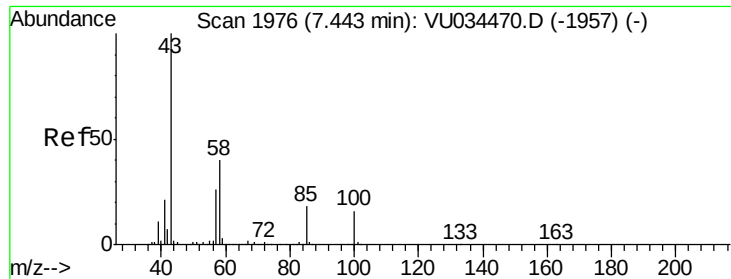
Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 22826 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 67.8  | 51.1  | 76.7  |
| 127      | 9.9   | 7.1   | 10.7  |





#45

4-Methyl-2-Pentanone

Concen: 3.928 ug/l

RT: 7.45 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

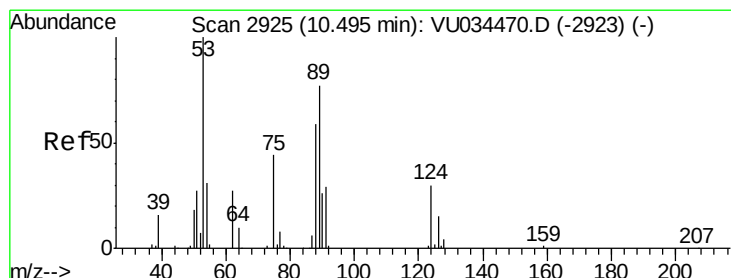
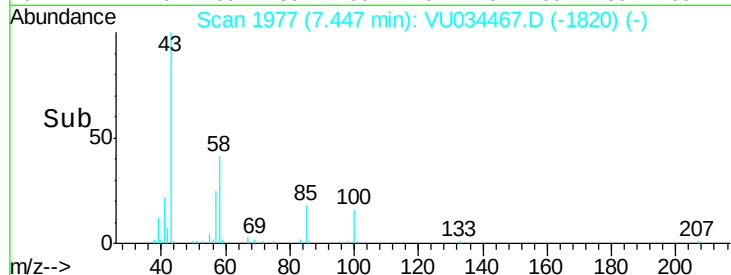
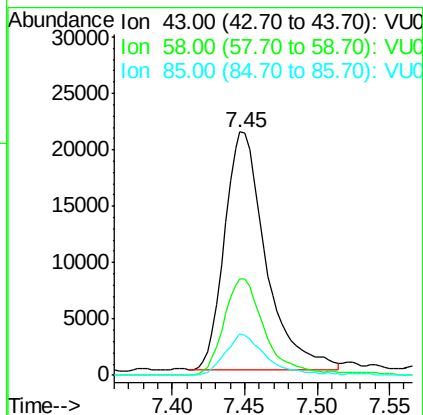
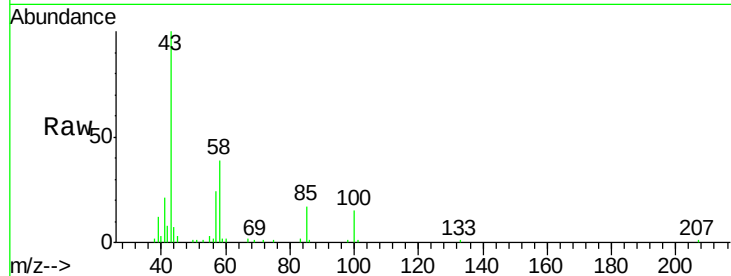
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 41675 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 41.3  | 20.2  | 60.6  |
| 85       | 16.9  | 14.6  | 21.8  |

Manual Integrations  
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#46

t-1,4-Dichloro-2-butene

Concen: 1.429 ug/l m

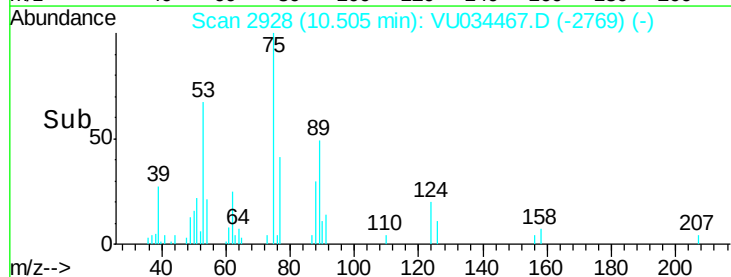
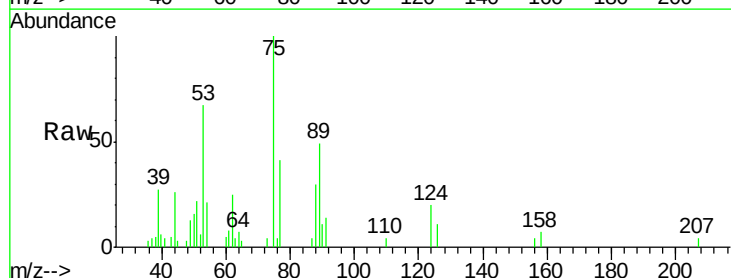
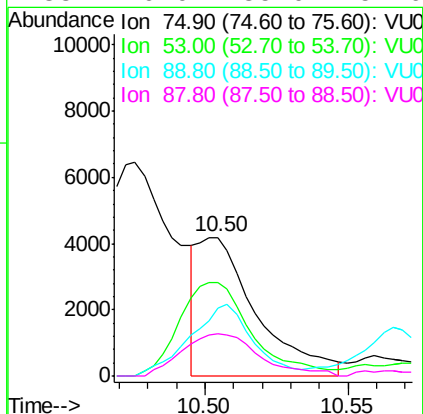
RT: 10.50 min Scan# 2928

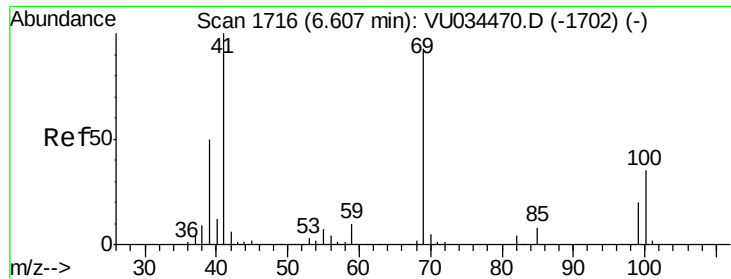
Delta R.T. 0.01 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 6005  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 82.7  | 63.3  | 94.9  |
| 89       | 54.8  | 46.2  | 69.2  |
| 88       | 40.0  | 35.0  | 52.6  |





#47

Methvl methacrylate

Concen: 1.596 ug/l

RT: 6.61 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

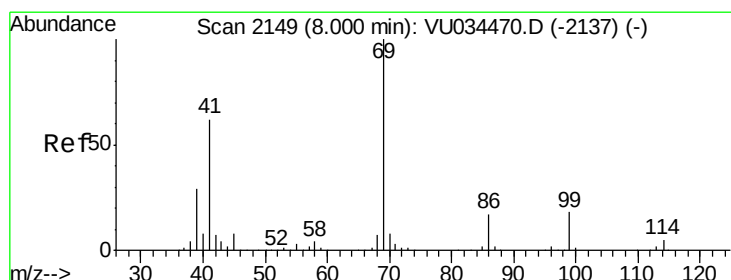
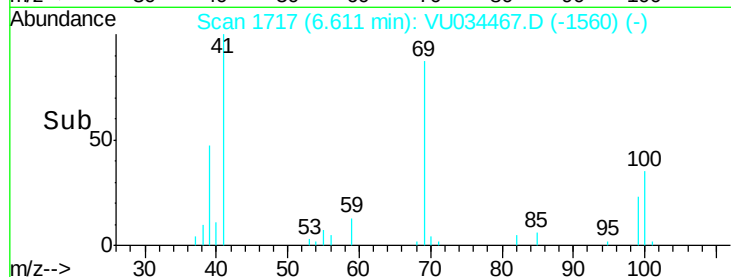
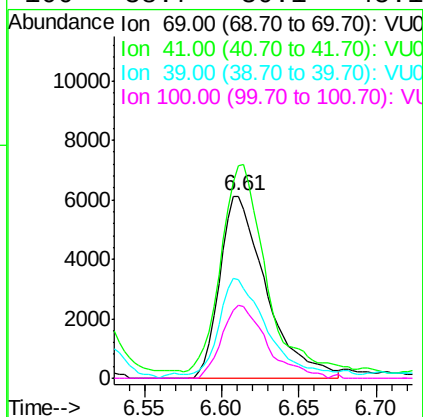
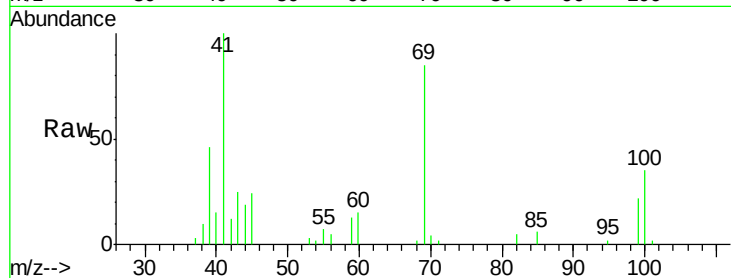
ClientSampled :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 69    | Resp: | 12747 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 107.6 | 0.0   | 212.8 |
| 39       | 51.7  | 43.0  | 64.4  |
| 100      | 38.7  | 30.1  | 45.1  |

Manual Integrations  
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#48

Ethyl methacrylate

Concen: 0.758 ug/l

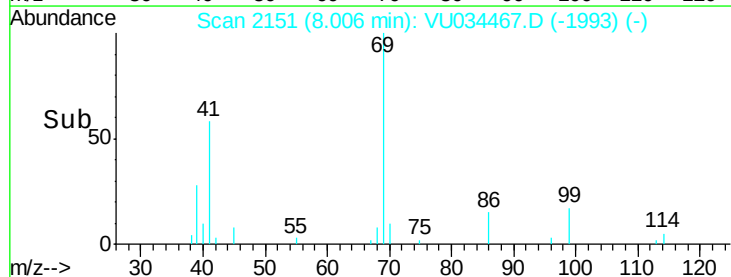
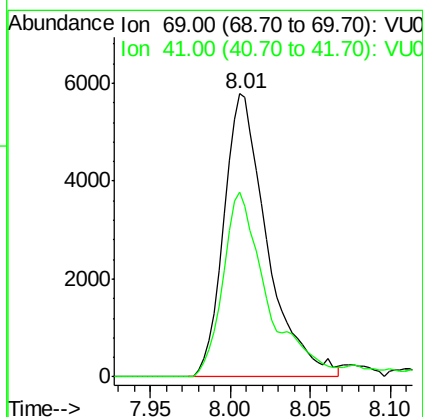
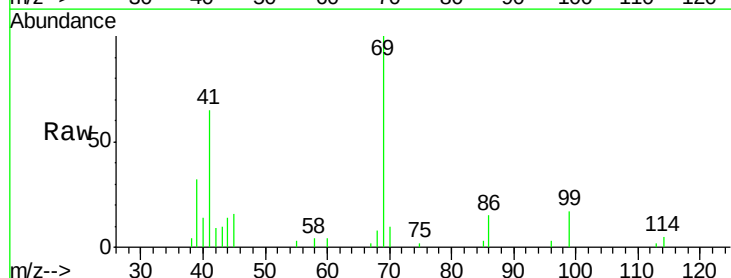
RT: 8.01 min Scan# 2151

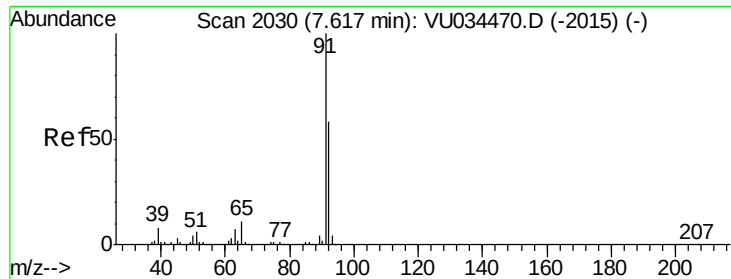
Delta R.T. 0.01 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 10731 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 66.1  | 30.6  | 91.8  |





#49

Toluene

Concen: 0.902 ug/l

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 92 Resp: 36636

Ion Ratio Lower Upper

92 100

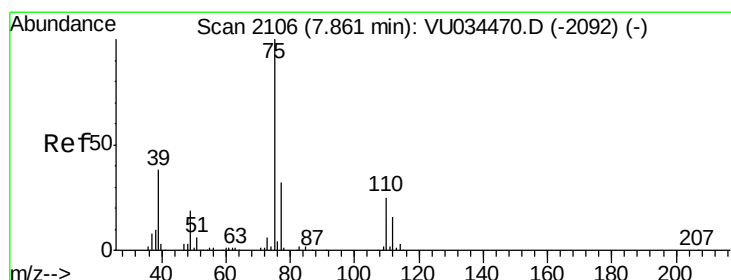
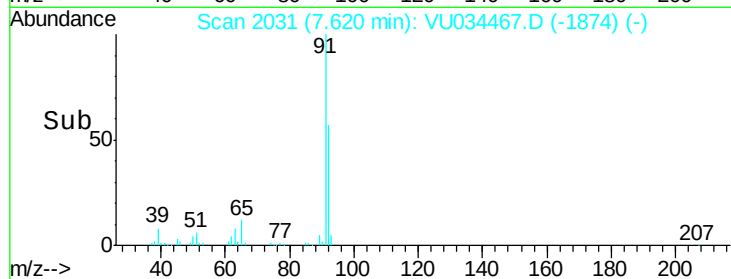
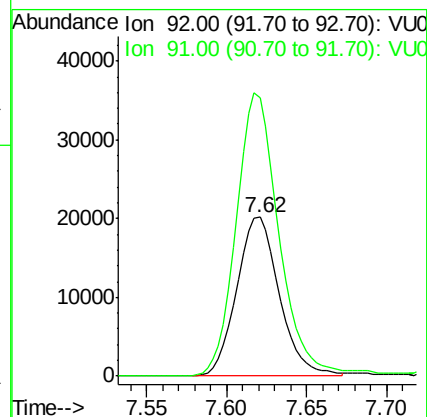
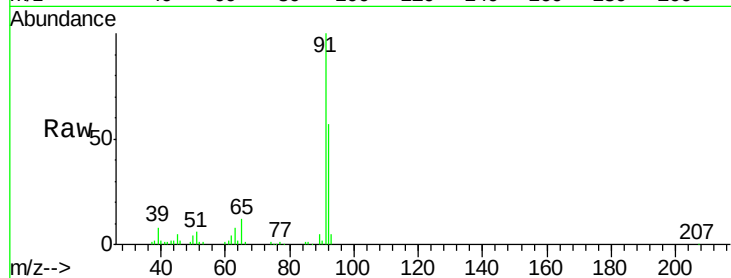
91 177.4 138.6 208.0

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 0.847 ug/l

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU034467.D

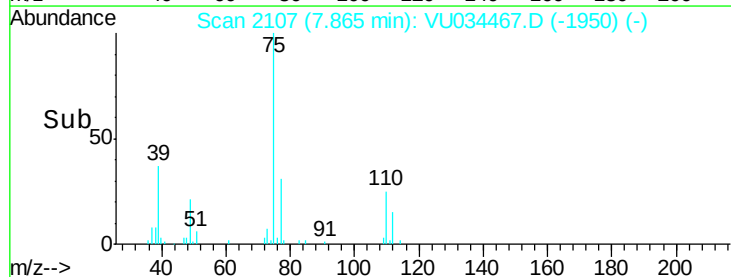
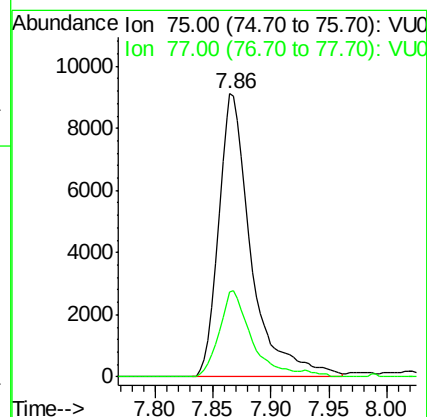
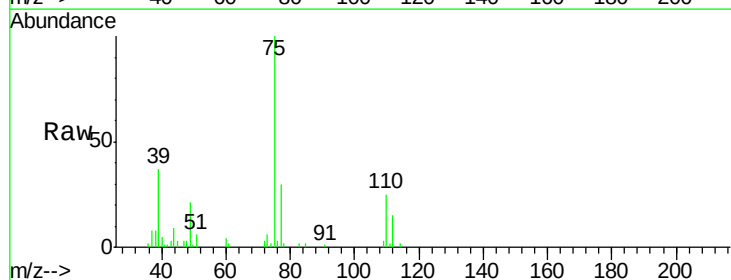
Acq: 11 Sep 2019 10:13

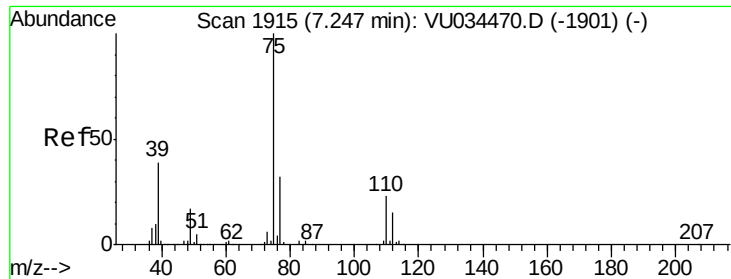
Tgt Ion: 75 Resp: 17948

Ion Ratio Lower Upper

75 100

77 30.0 25.4 38.0





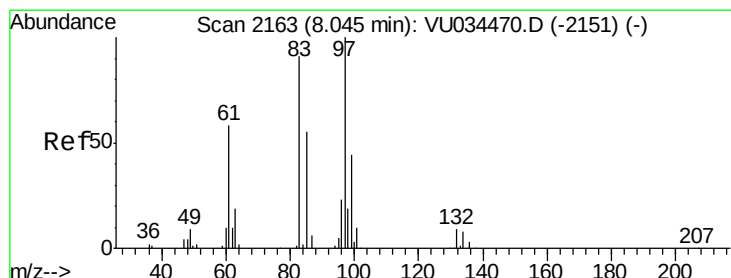
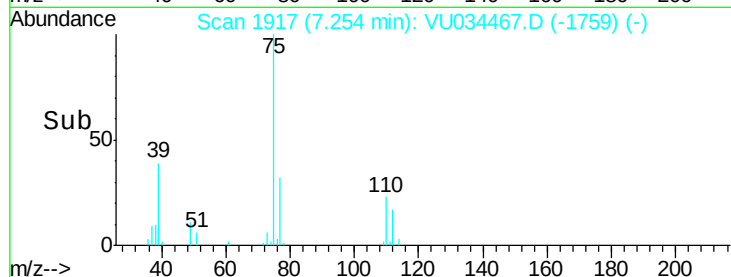
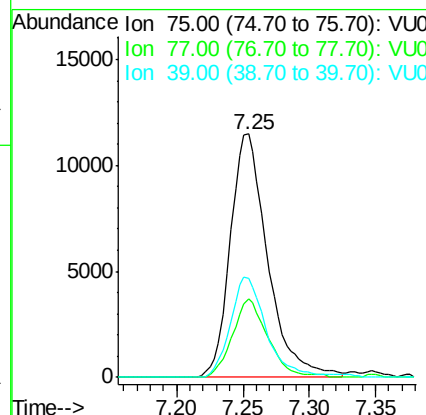
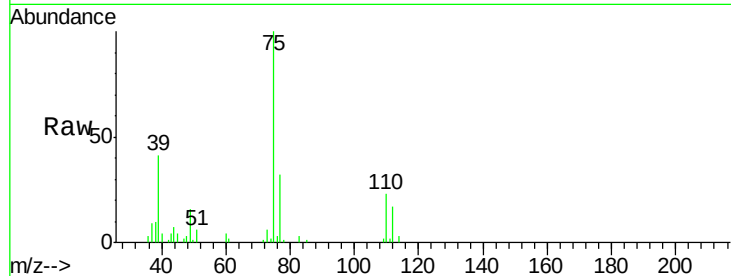
#51  
 cis-1,3-Dichloropropene  
 Concen: 0.886 ug/l  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.2  | 25.3  | 37.9  |
| 39      | 40.5  | 31.0  | 46.4  |

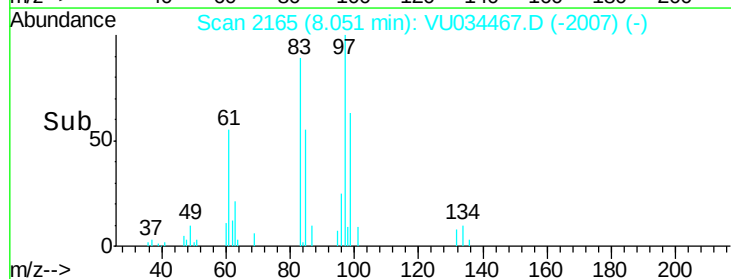
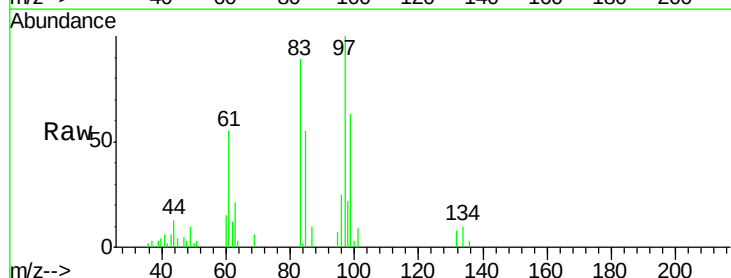
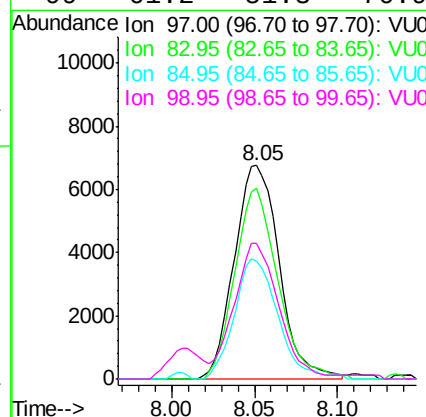
Manual Integrations  
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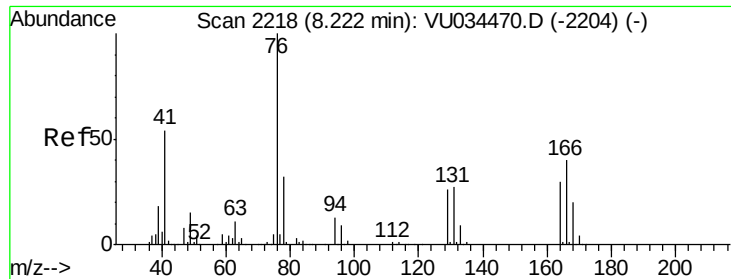
MMDadoda  
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#52  
 1,1,2-Trichloroethane  
 Concen: 0.911 ug/l  
 RT: 8.05 min Scan# 2165  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 89.1  | 72.5  | 108.7 |
| 85      | 55.4  | 45.4  | 68.0  |
| 99      | 61.2  | 51.3  | 76.9  |





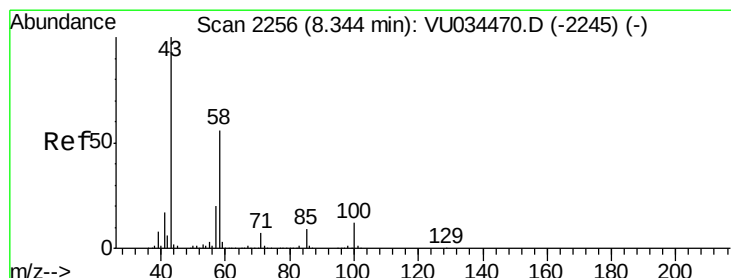
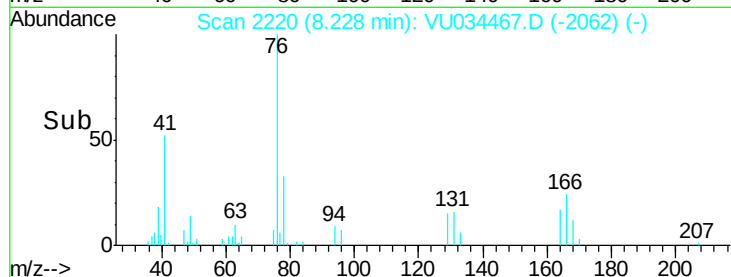
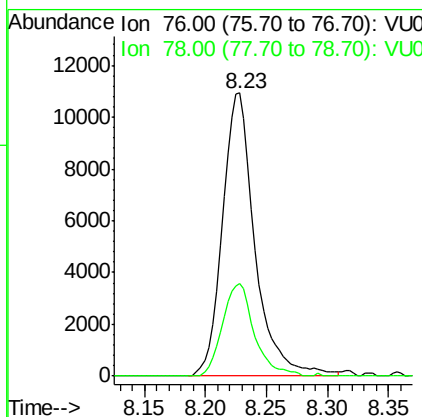
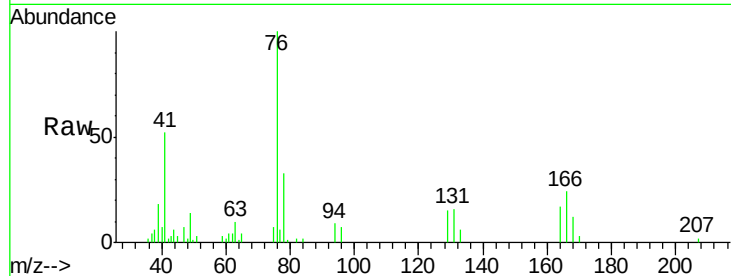
#53  
 1,3-Dichloropropane  
 Concen: 0.860 ug/l  
 RT: 8.23 min Scan# 2220  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.1  | 26.1  | 39.1  |

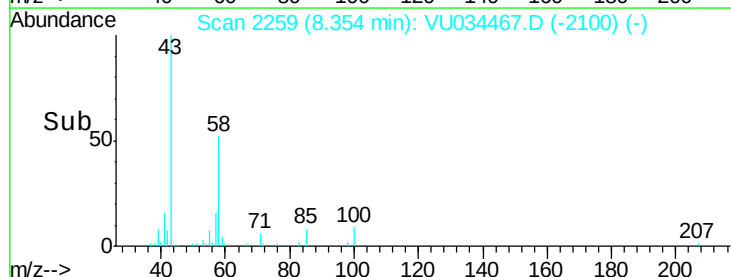
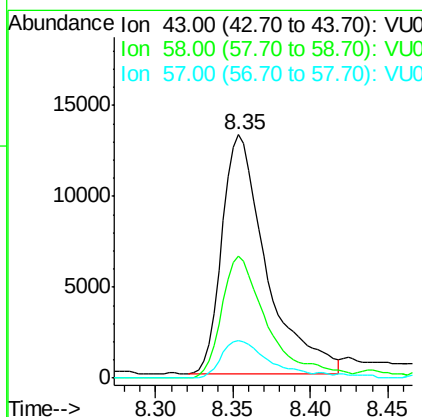
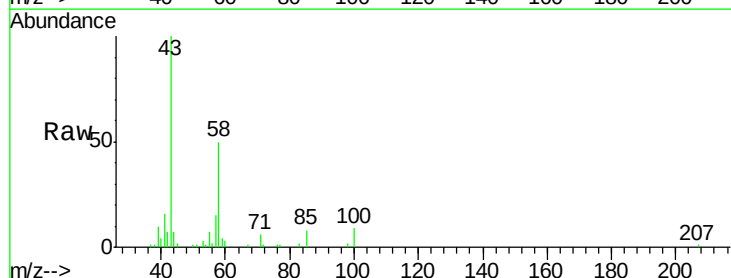
Manual Integrations  
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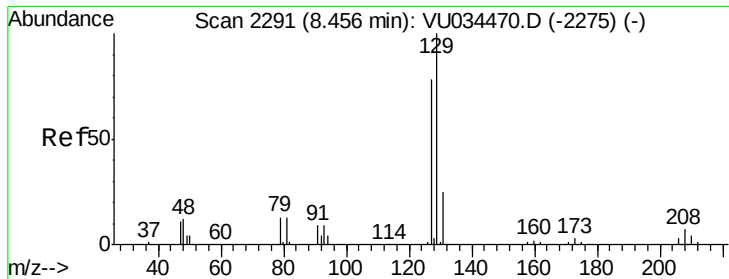
MMDadoda  
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#54  
 2-Hexanone  
 Concen: 3.536 ug/l  
 RT: 8.35 min Scan# 2259  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 52.4  | 36.4  | 76.4  |
| 57      | 17.8  | 0.0   | 39.5  |





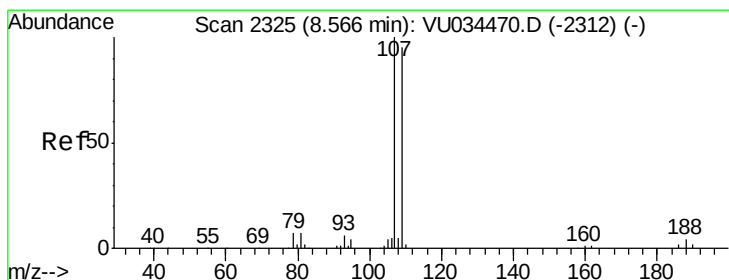
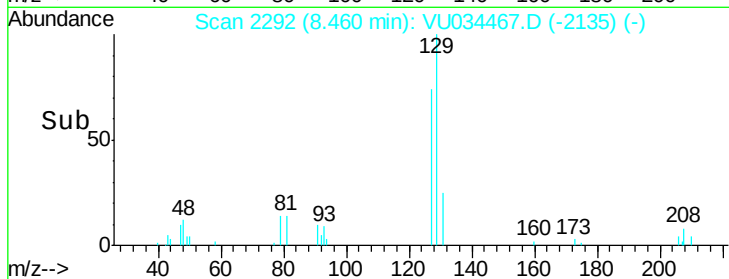
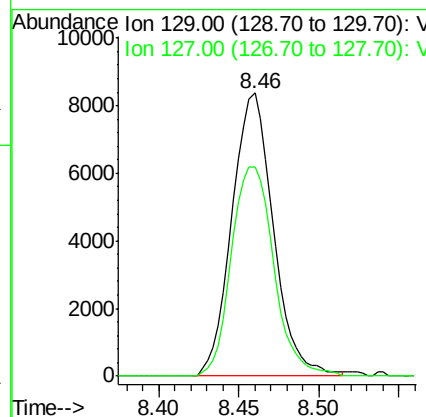
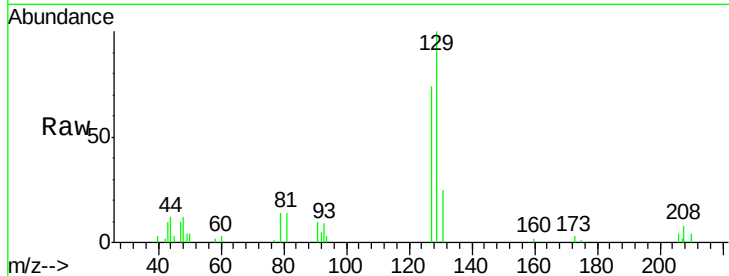
#55  
 Dibromochloromethane  
 Concen: 0.895 ug/l  
 RT: 8.46 min Scan# 2292  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Tot Ion:129 Resp: 14791  
 Ion Ratio Lower Upper  
 129 100  
 127 75.7 60.9 91.3

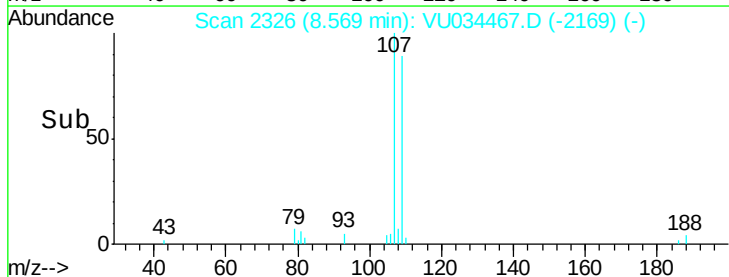
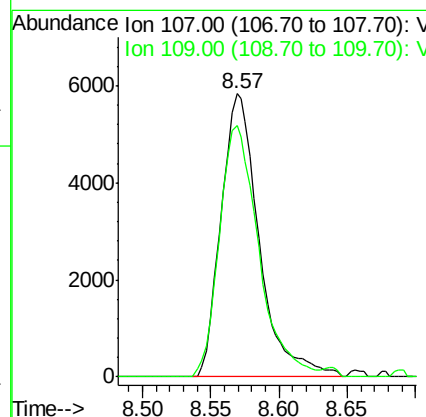
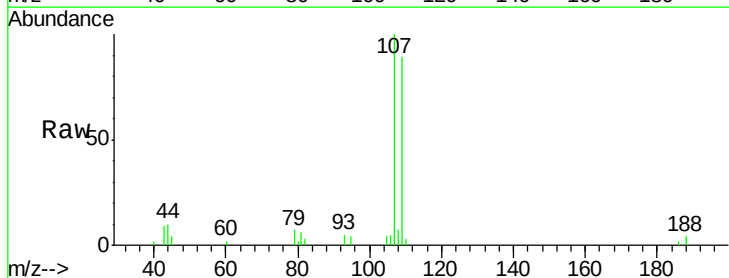
Manual Integrations  
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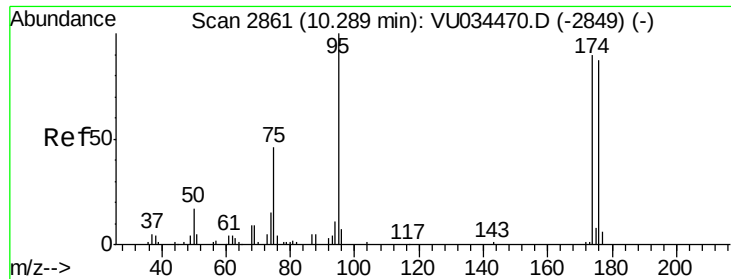


#56  
 1,2-Dibromoethane  
 Concen: 0.868 ug/l  
 RT: 8.57 min Scan# 2326  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Tgt Ion:107 Resp: 11321  
 Ion Ratio Lower Upper  
 107 100  
 109 91.6 0.0 190.8







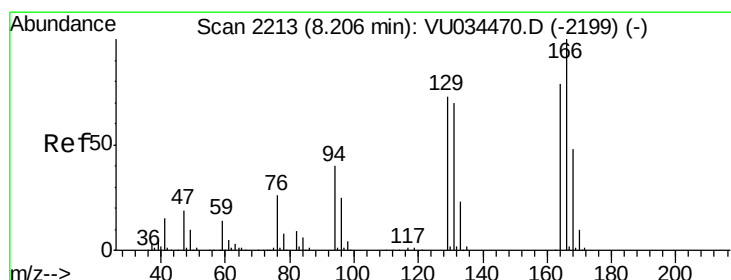
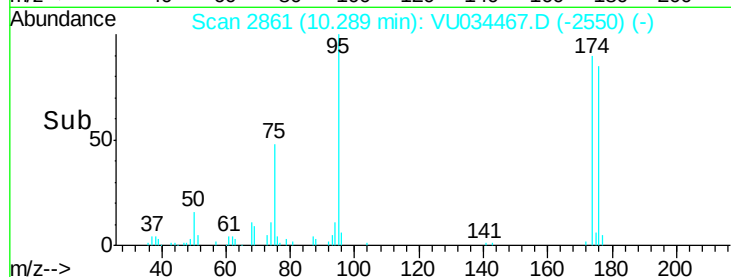
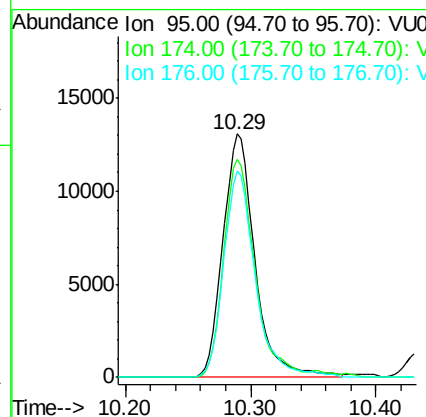
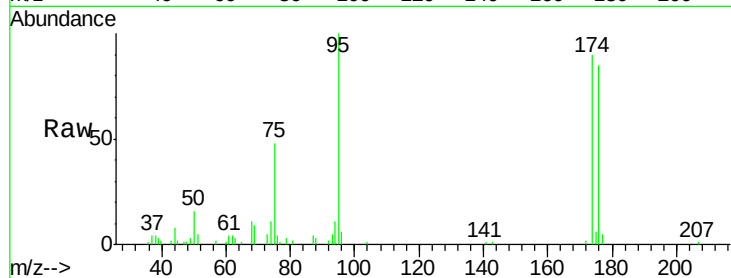
#57  
4-Bromofluorobenzene  
Concen: 1.009 ug/l  
RT: 10.29 min Scan# 2861  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.2  | 70.1  | 105.1 |
| 176     | 83.6  | 67.7  | 101.5 |

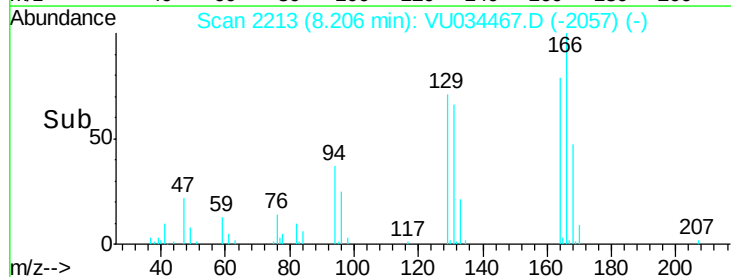
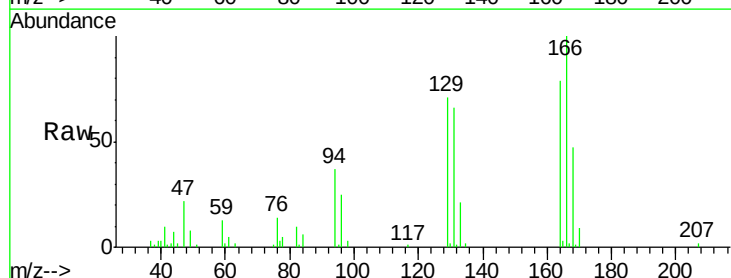
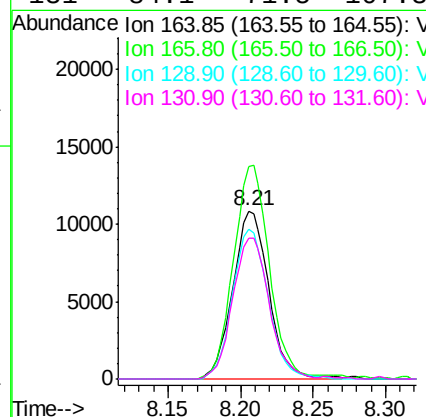
Manual Integrations  
APPROVED

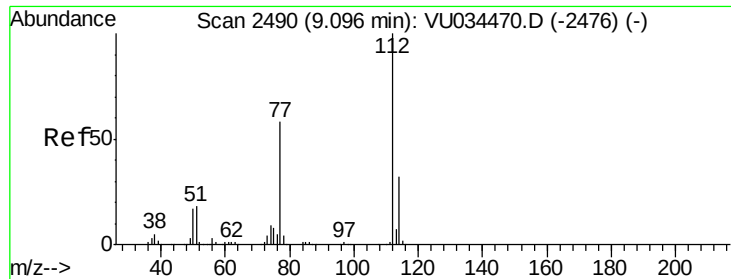
MMDadoda  
9/12/2019 4:53:17 PM



#58  
Tetrachloroethene  
Concen: 1.087 ug/l  
RT: 8.21 min Scan# 2213  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.8 | 101.5 | 152.3 |
| 129     | 89.7  | 73.8  | 110.8 |
| 131     | 84.1  | 71.5  | 107.3 |





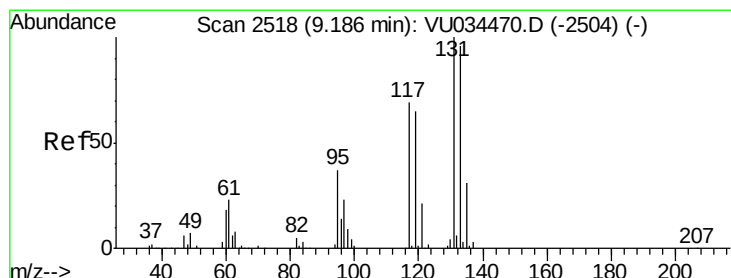
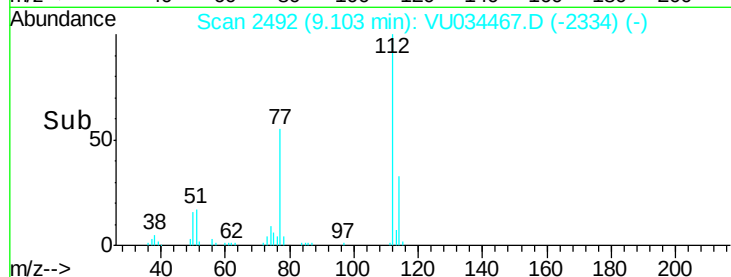
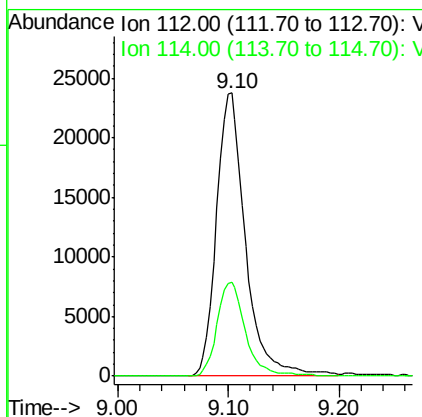
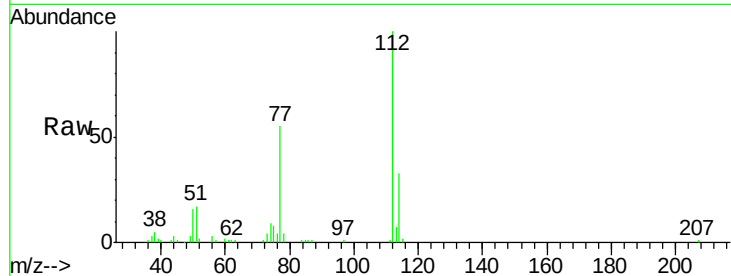
#59  
Chlorobenzene  
Concen: 0.932 ug/l  
RT: 9.10 min Scan# 2492  
Delta R.T. 0.01 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Tot Ion:112 Resp: 43270  
Ion Ratio Lower Upper  
112 100  
114 33.2 25.6 38.4

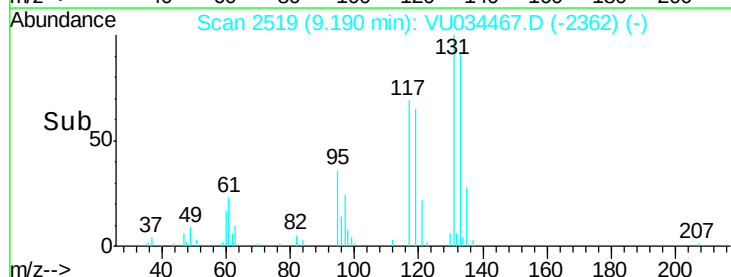
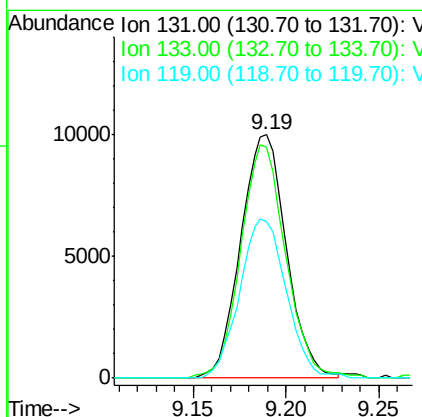
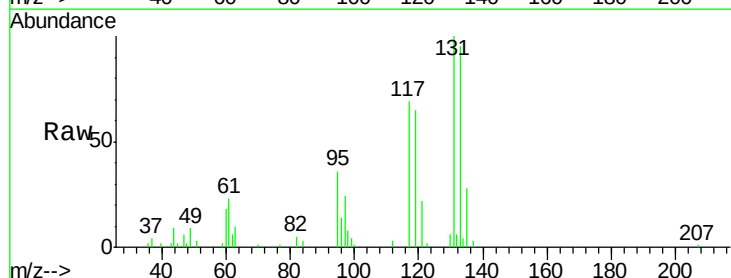
Manual Integrations  
APPROVED

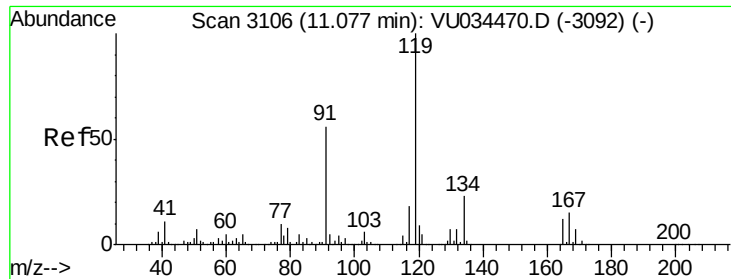
MMDadoda  
9/12/2019 4:53:17 PM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 0.971 ug/l  
RT: 9.19 min Scan# 2519  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Tgt Ion:131 Resp: 17091  
Ion Ratio Lower Upper  
131 100  
133 94.4 76.8 115.2  
119 66.5 52.4 78.6





#61

Pentachloroethane

Concen: 0.986 ug/l

RT: 11.08 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC001

Tot Ion:117 Resp: 14174

Ion Ratio Lower Upper

117 100

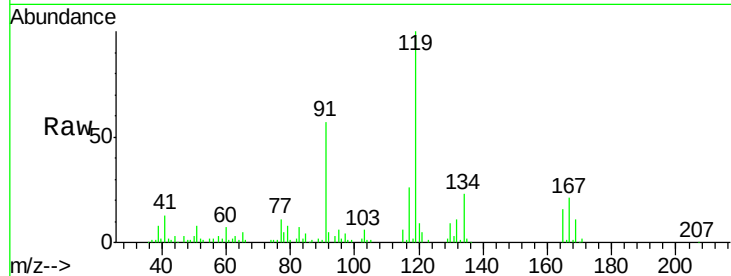
167 83.4 70.7 106.1

Manual Integrations

APPROVED

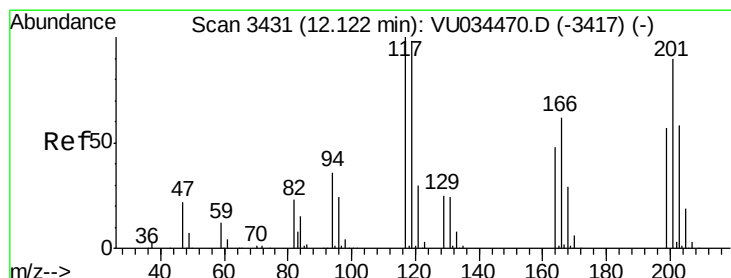
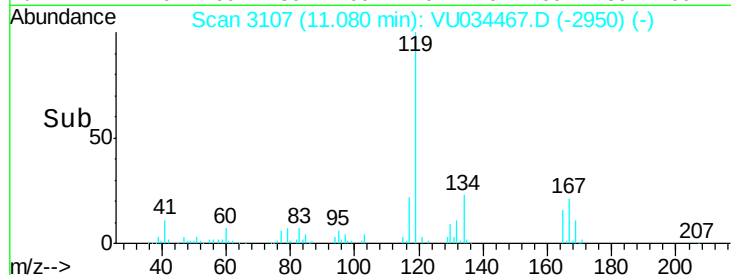
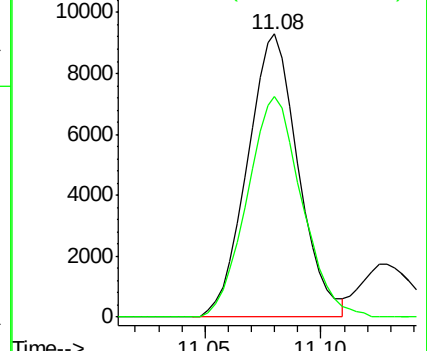
MMDadoda

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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.890 ug/l

RT: 12.12 min Scan# 3431

Delta R.T. 0.00 min

Lab File: VU034467.D

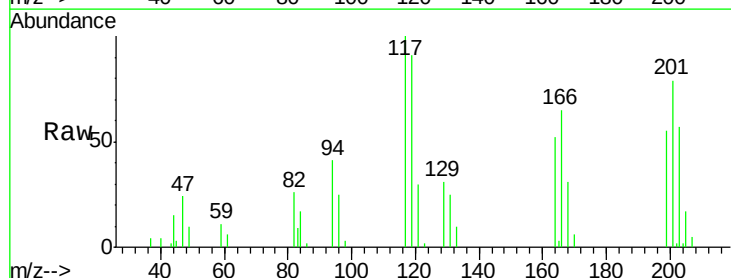
Acq: 11 Sep 2019 10:13

Tgt Ion:117 Resp: 12203

Ion Ratio Lower Upper

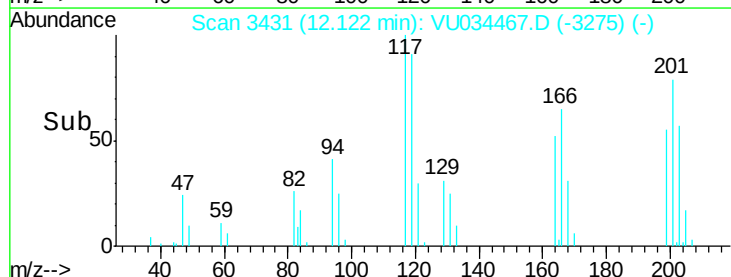
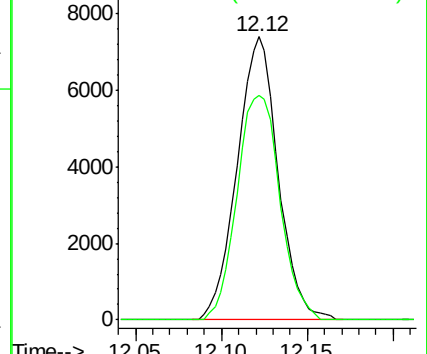
117 100

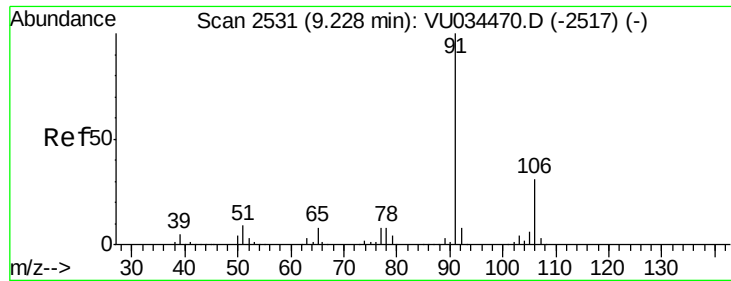
201 83.4 71.8 107.8



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





#63

Ethyl Benzene

Concen: 0.867 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 64648

Ion Ratio Lower Upper

91 100

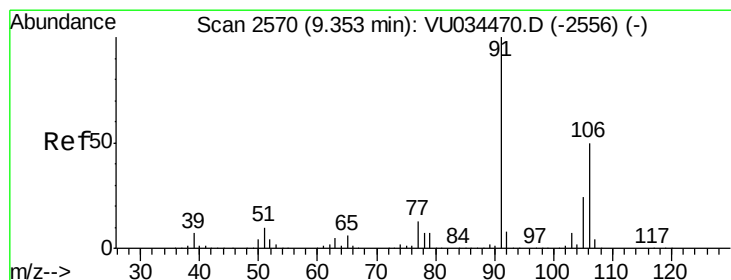
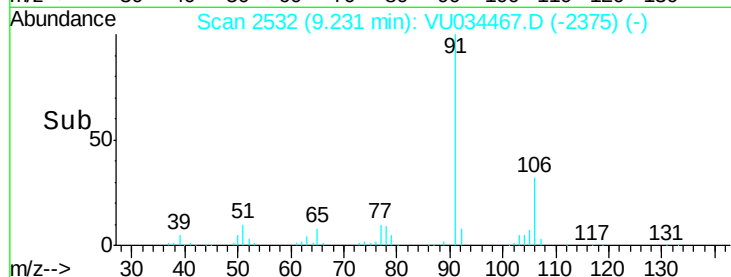
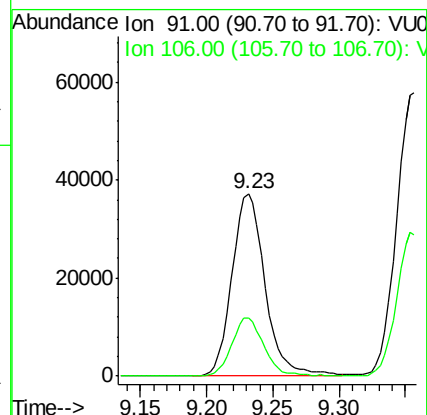
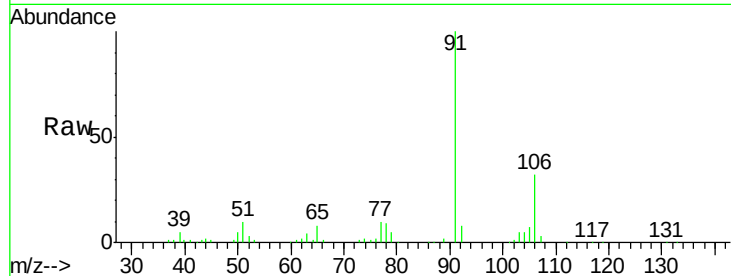
106 32.2 25.2 37.8

Manual Integrations

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#64

m/p-Xylenes

Concen: 1.729 ug/l

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034467.D

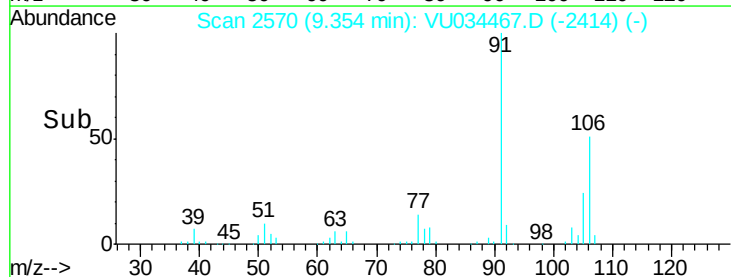
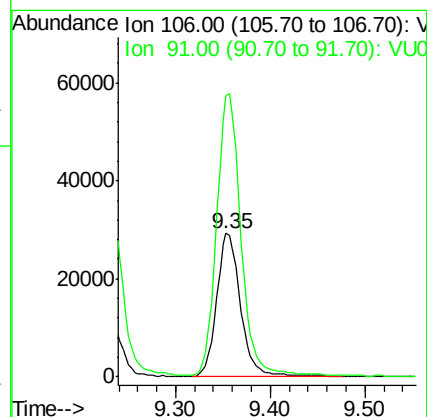
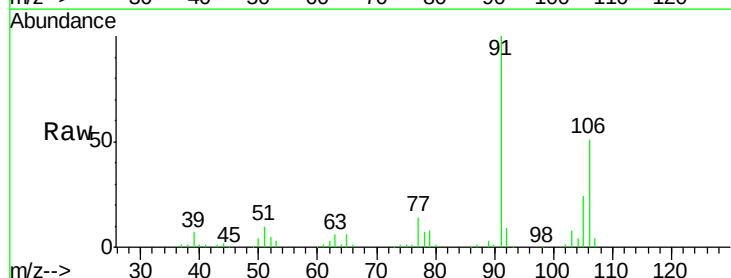
Acq: 11 Sep 2019 10:13

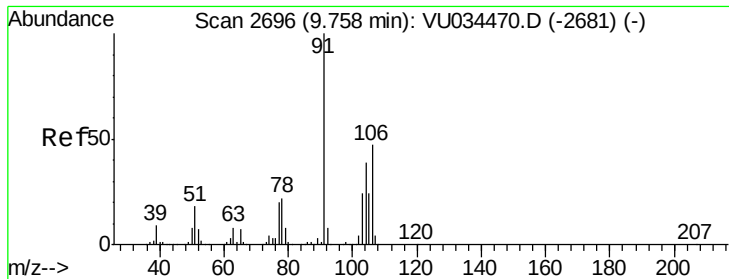
Tgt Ion: 106 Resp: 51693

Ion Ratio Lower Upper

106 100

91 194.8 161.8 242.6





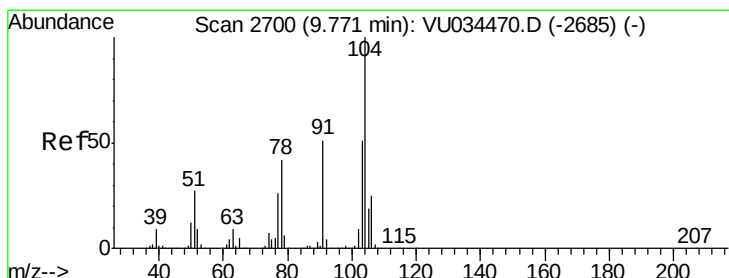
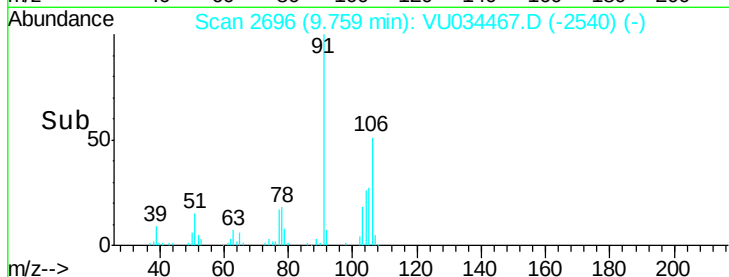
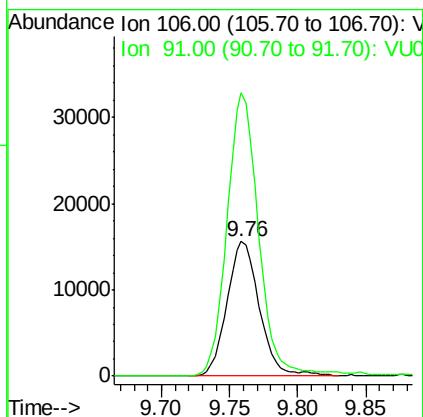
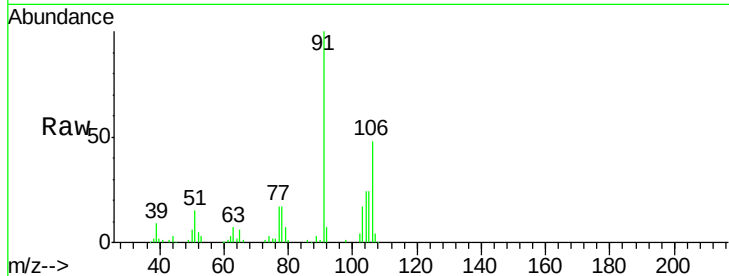
#65  
o-Xylene  
Concen: 0.906 ug/l  
RT: 9.76 min Scan# 2696  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 202.7 | 104.7 | 313.9 |

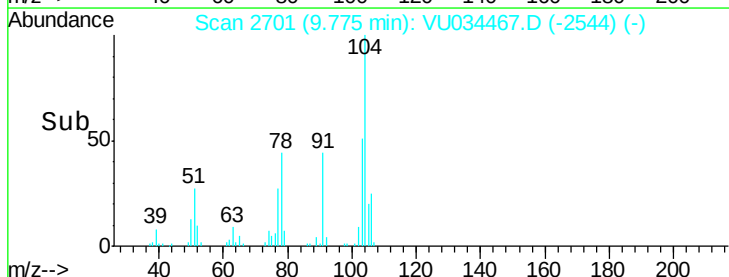
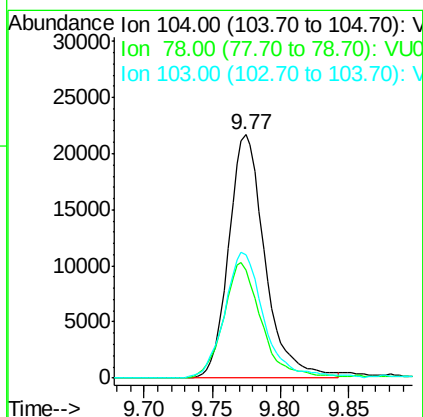
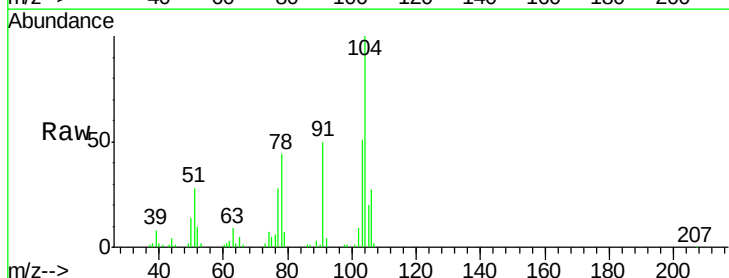
Manual Integrations  
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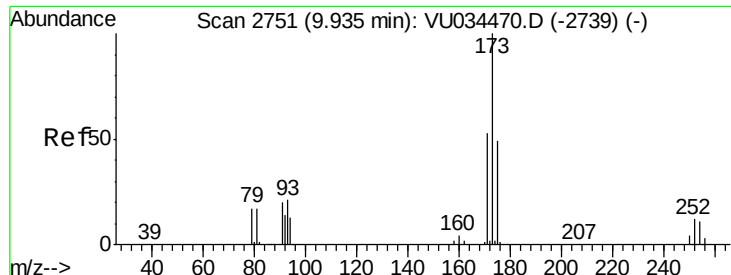
MMDadoda  
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#66  
Styrene  
Concen: 0.832 ug/l  
RT: 9.77 min Scan# 2701  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 49.0  | 37.8  | 56.6  |
| 103     | 55.7  | 43.8  | 65.8  |





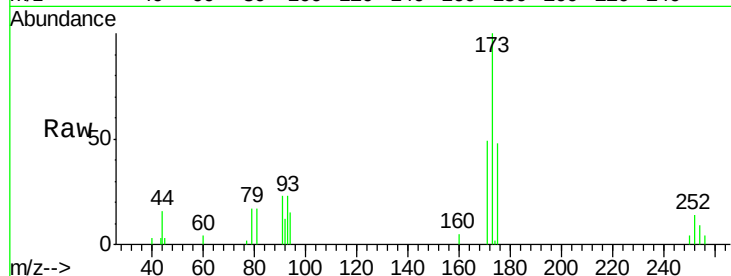
#67  
Bromoform  
Concen: 0.956 ug/l  
RT: 9.94 min Scan# 2752  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

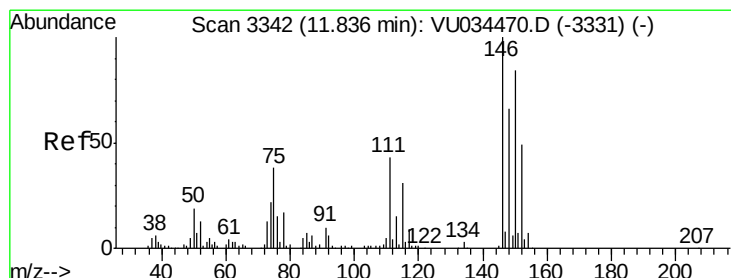
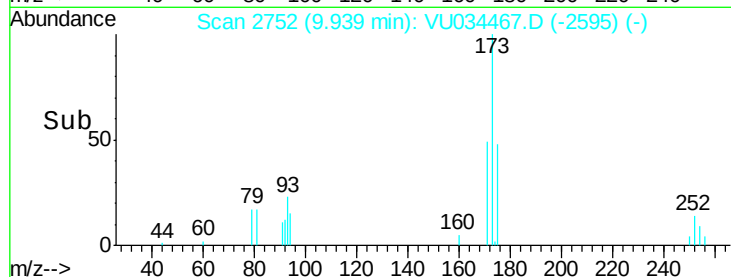
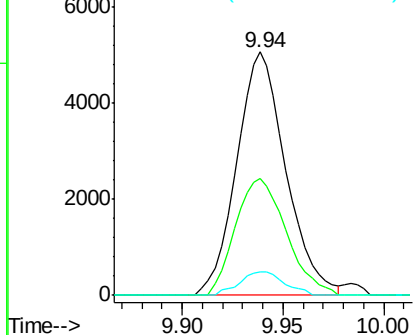
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.6  | 39.1  | 58.7  |
| 254     | 8.8   | 8.6   | 13.0  |

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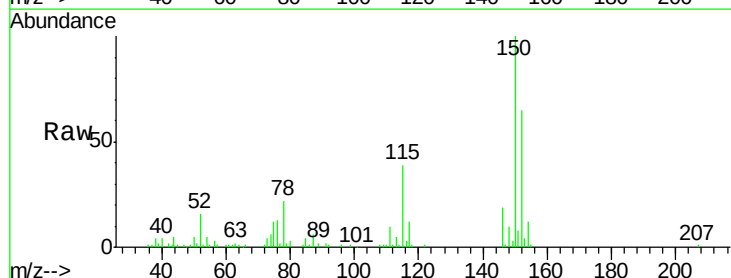


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V

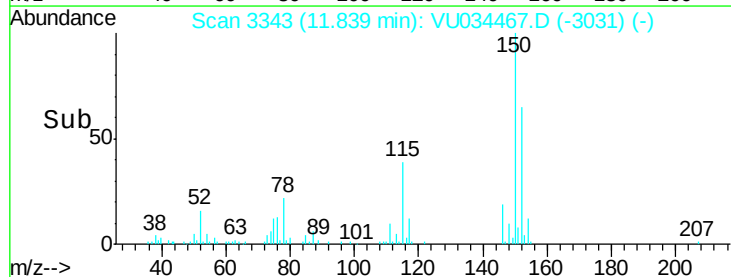
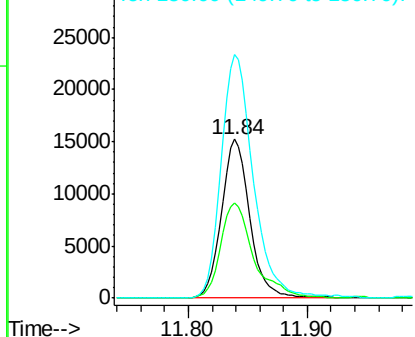


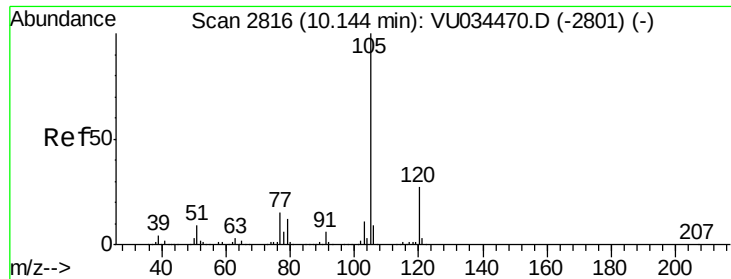
#68  
1,2-Dichlorobenzene-d4  
Concen: 1.049 ug/l  
RT: 11.84 min Scan# 3343  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 69.8  | 0.0   | 126.6 |
| 150     | 174.0 | 0.0   | 633.6 |



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





#69

Isopropylbenzene

Concen: 0.864 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 63517

Ion Ratio Lower Upper

105 100

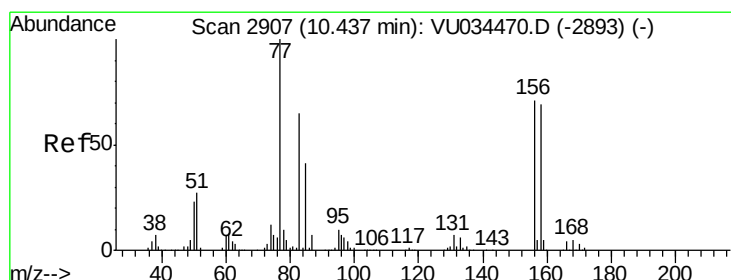
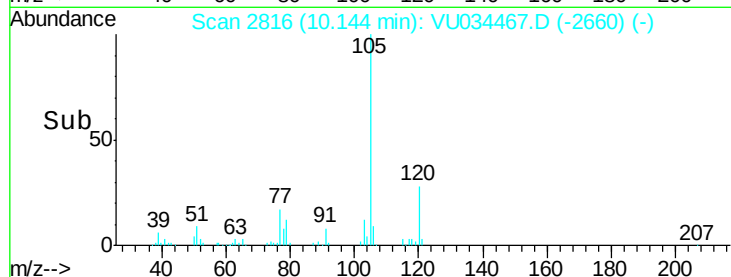
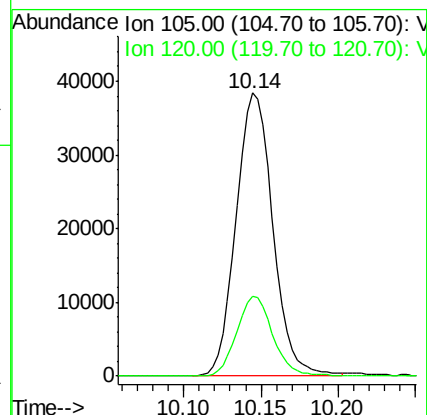
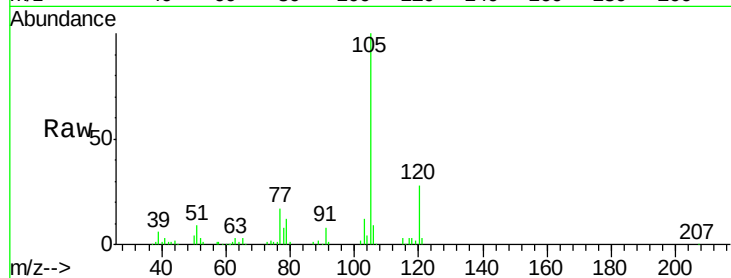
120 27.6 13.4 40.2

Manual Integrations

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.891 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

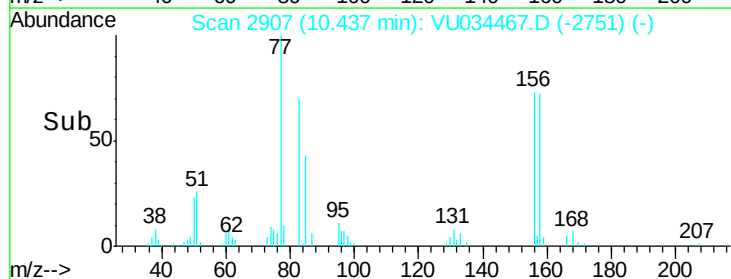
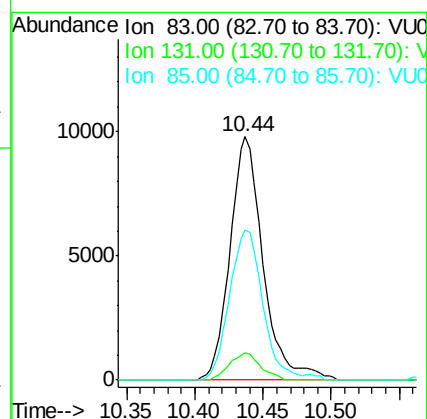
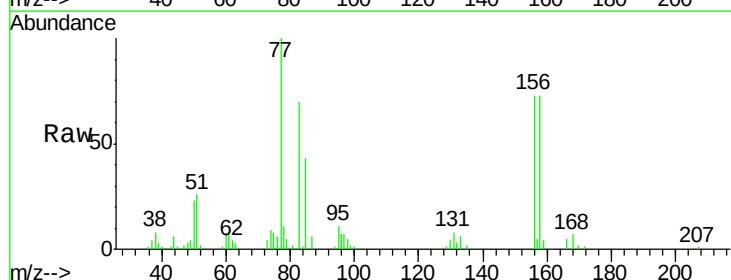
Tgt Ion: 83 Resp: 16526

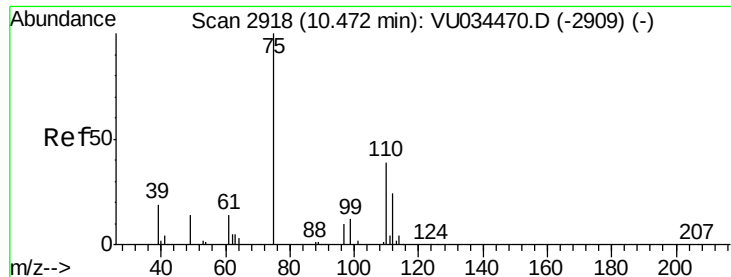
Ion Ratio Lower Upper

83 100

131 10.5 8.2 12.4

85 61.5 51.9 77.9





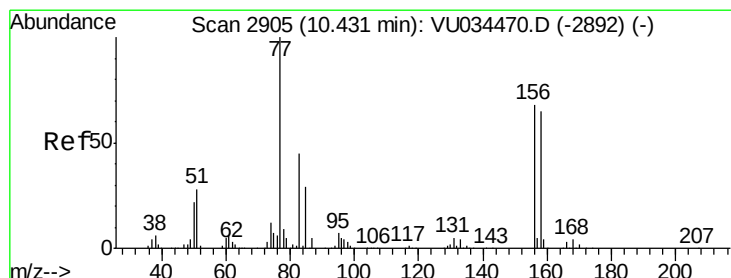
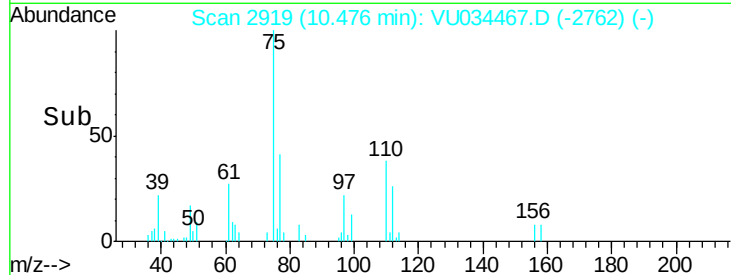
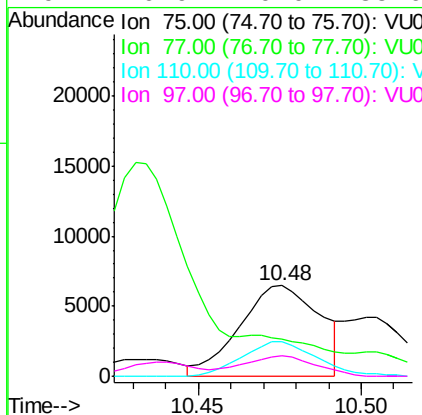
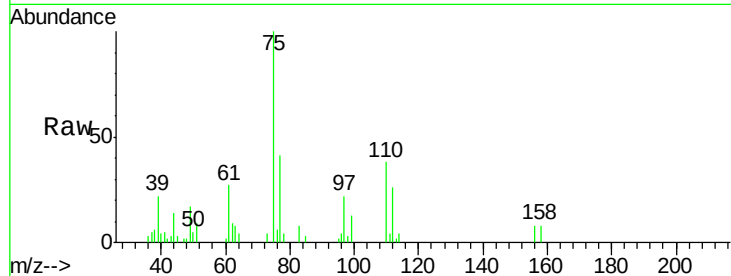
#71  
 1,2,3-Trichloropropane  
 Concen: 0.767 ug/l m  
 RT: 10.48 min Scan# 2919  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

|         |       |       |       |
|---------|-------|-------|-------|
| Tot Ion | 75    | Resp: | 11029 |
| Ion     | Ratio | Lower | Upper |
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 0.0   |
| 110     | 35.9  | 0.0   | 66.8  |
| 97      | 20.9  | 0.0   | 35.6  |

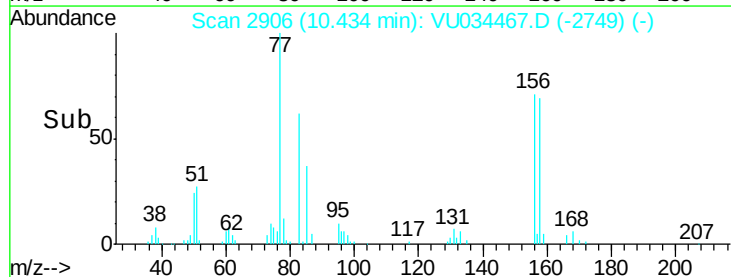
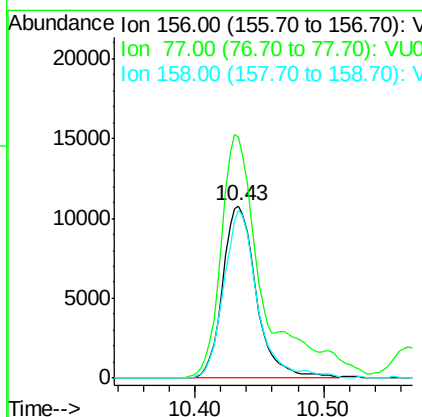
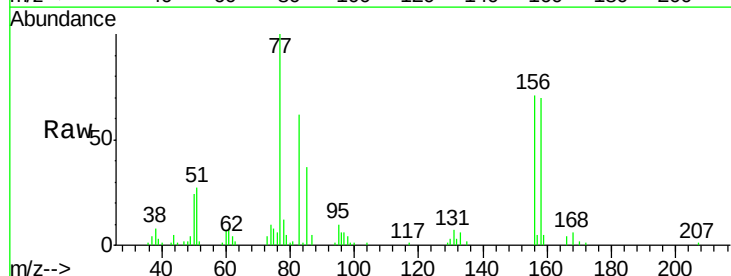
Manual Integrations  
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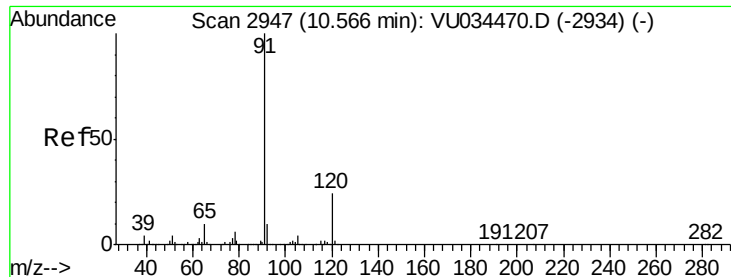


#72  
 Bromobenzene  
 Concen: 1.002 ug/l  
 RT: 10.43 min Scan# 2906  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

|         |       |       |       |
|---------|-------|-------|-------|
| Tgt Ion | 156   | Resp: | 19506 |
| Ion     | Ratio | Lower | Upper |
| 156     | 100   |       |       |
| 77      | 141.2 | 0.0   | 293.6 |
| 158     | 96.9  | 0.0   | 192.6 |







#73

n-propylbenzene

Concen: 0.863 ug/l

RT: 10.57 min Scan# 2947

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion:120 Resp: 18143

Ion Ratio Lower Upper

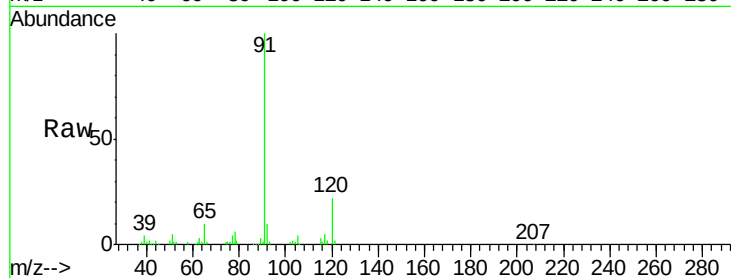
120 100

91 436.6 339.1 508.7

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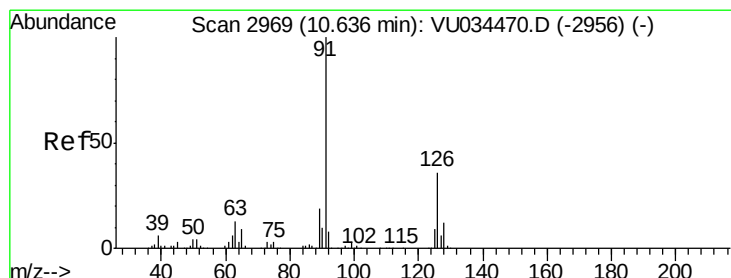
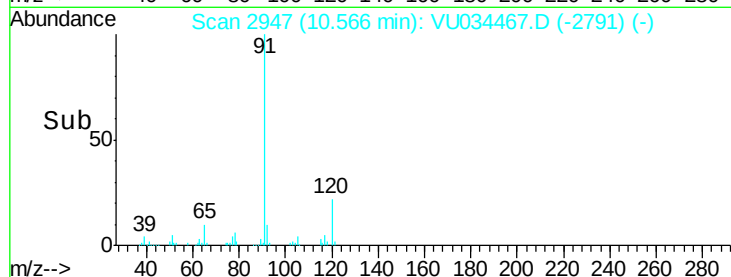
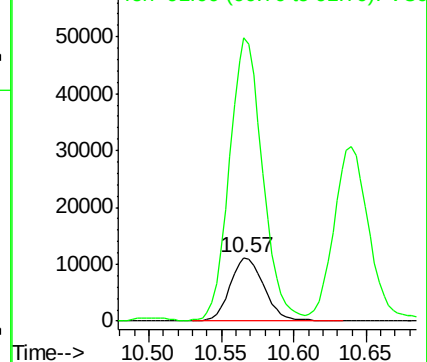
MMDadoda

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Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.919 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034467.D

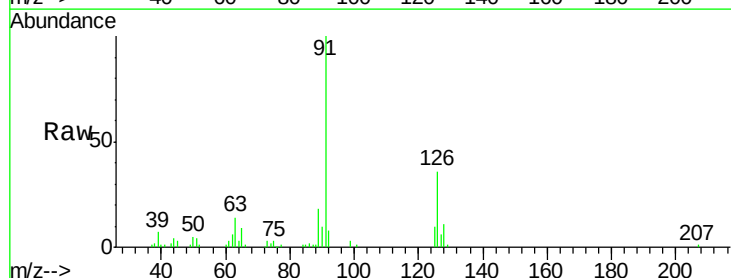
Acq: 11 Sep 2019 10:13

Tgt Ion:126 Resp: 17518

Ion Ratio Lower Upper

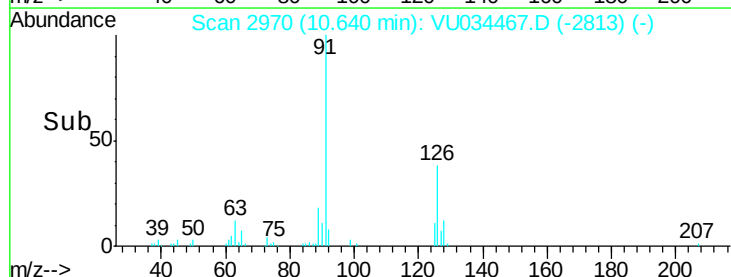
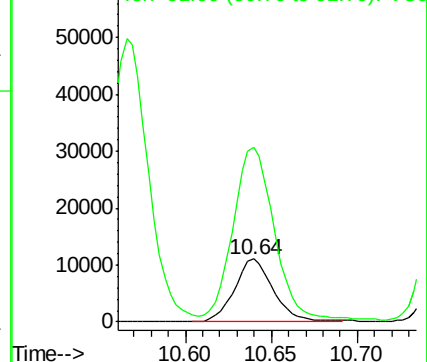
126 100

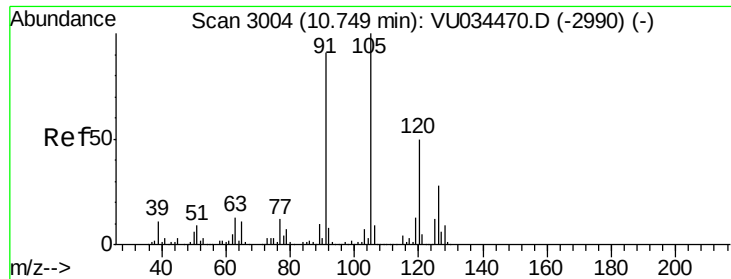
91 290.8 0.0 582.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 0.867 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 57029

Ion Ratio Lower Upper

105 100

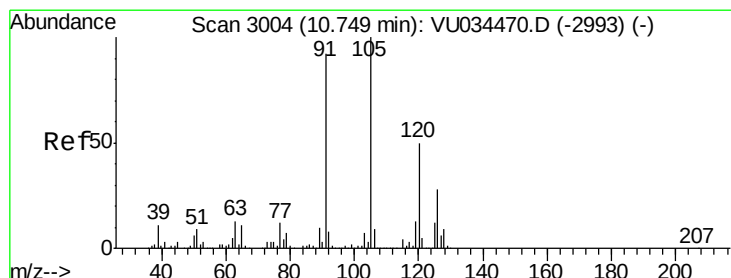
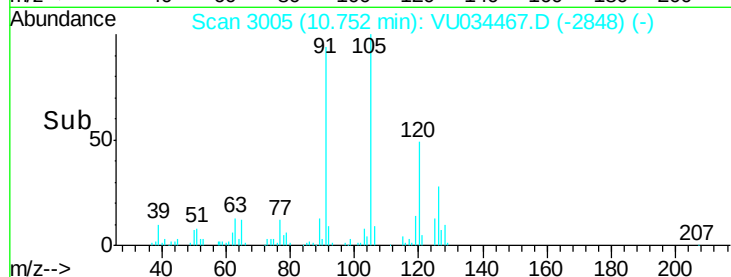
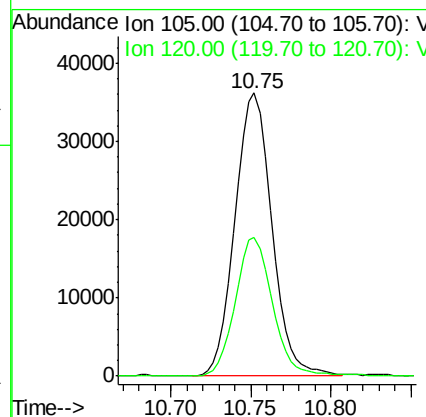
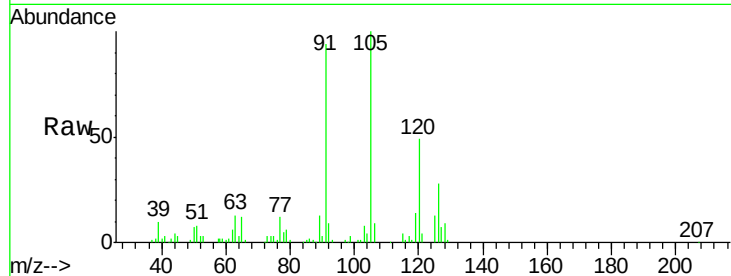
120 49.2 39.8 59.8

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#76

4-Chlorotoluene

Concen: 0.899 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU034467.D

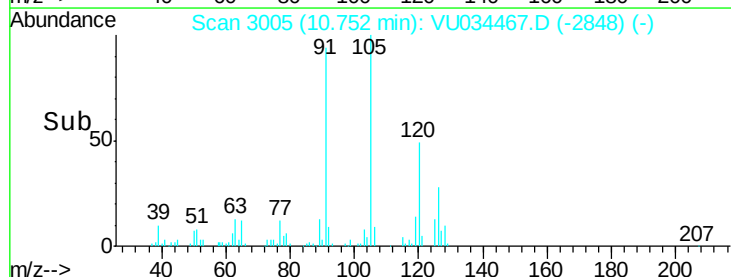
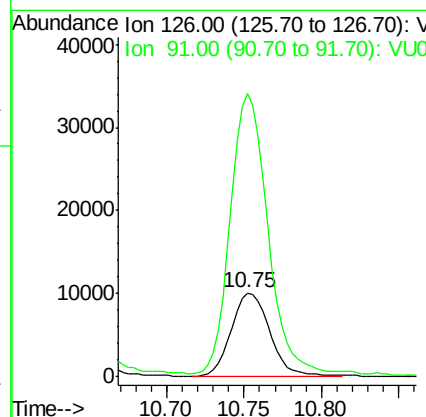
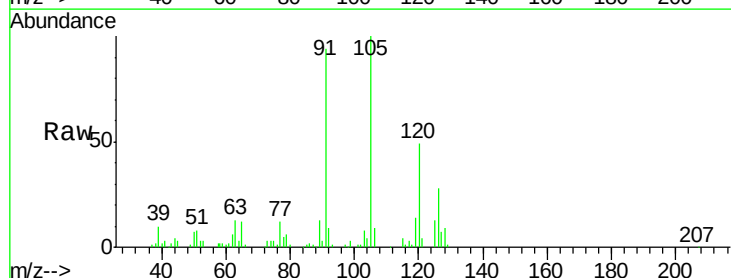
Acq: 11 Sep 2019 10:13

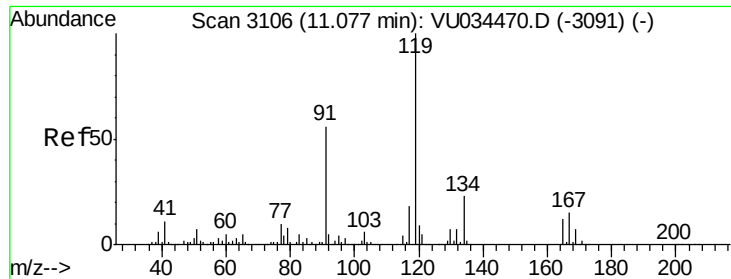
Tgt Ion:126 Resp: 17755

Ion Ratio Lower Upper

126 100

91 316.0 0.0 667.6





#77

tert-Butylbenzene

Concen: 0.914 ug/l

RT: 11.08 min Scan# 3106

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

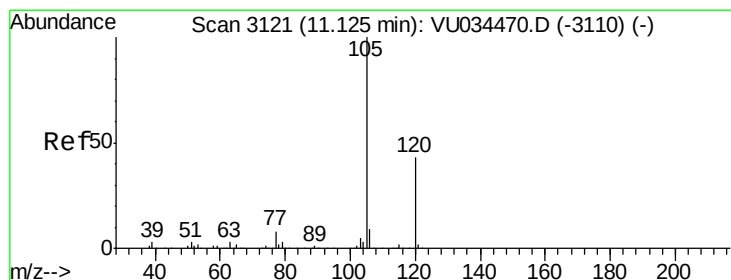
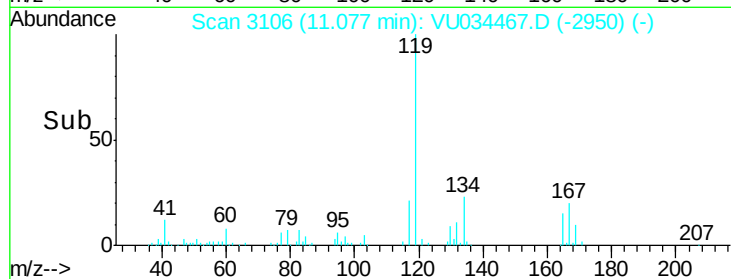
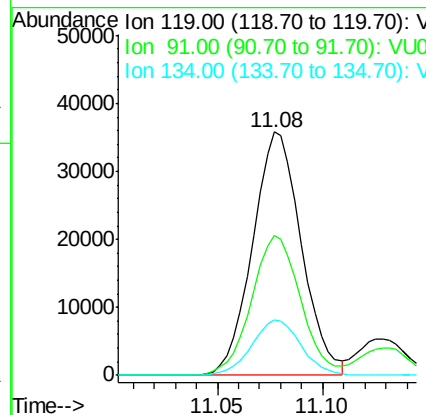
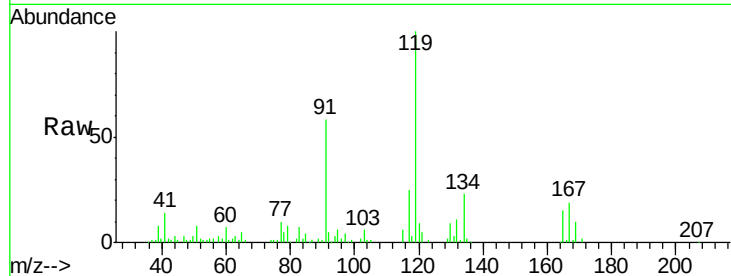
ClientSampleId :

VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 119   | Resp: | 57516 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 57.9  | 27.8  | 83.3  |
| 134       | 23.0  | 18.4  | 27.6  |

Manual Integrations  
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#78

1,2,4-Trimethylbenzene

Concen: 0.858 ug/l

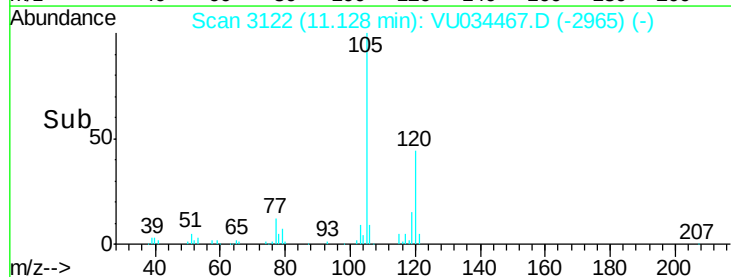
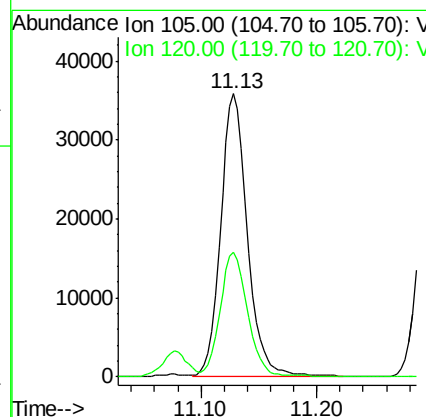
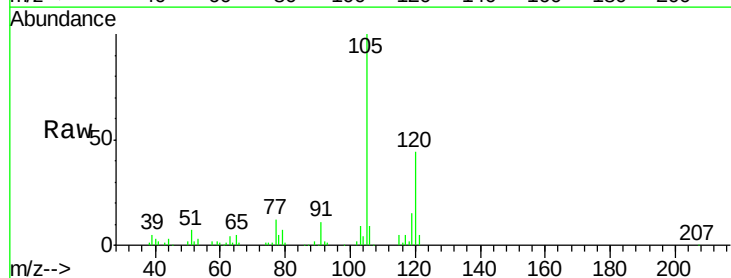
RT: 11.13 min Scan# 3122

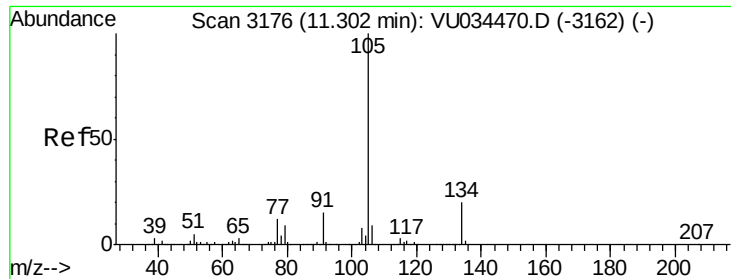
Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 57584 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 45.3  | 23.1  | 69.2  |





#79

sec-Butylbenzene

Concen: 0.898 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC001

Tot Ion:105 Resp: 77064

Ion Ratio Lower Upper

105 100

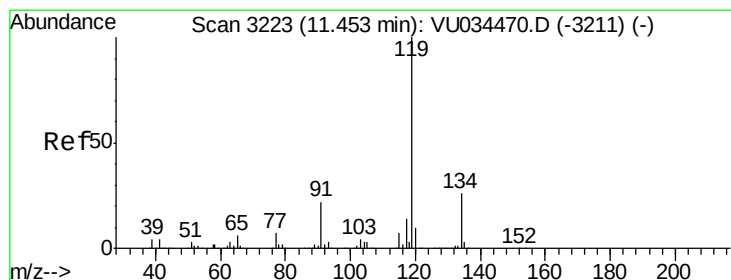
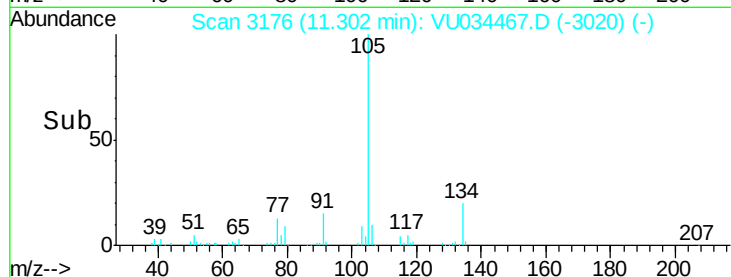
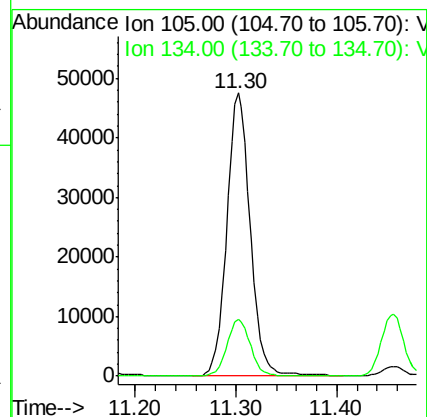
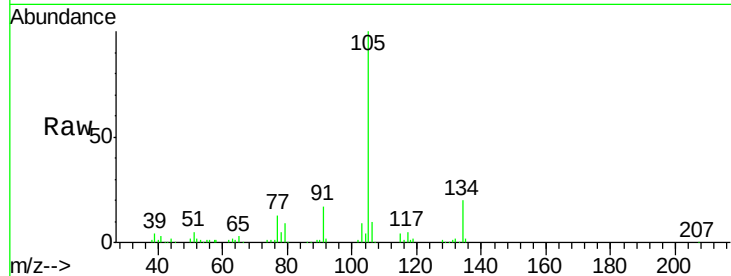
134 20.2 16.3 24.5

Manual Integrations

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#81

p-Isopropyltoluene

Concen: 0.863 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

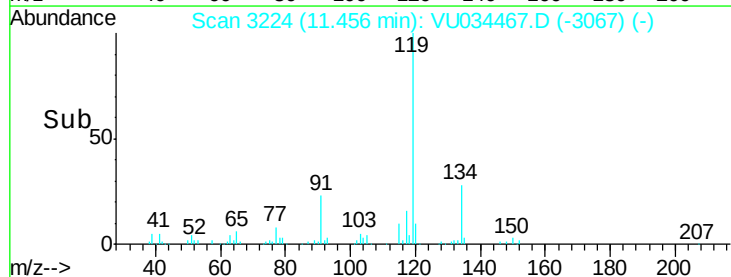
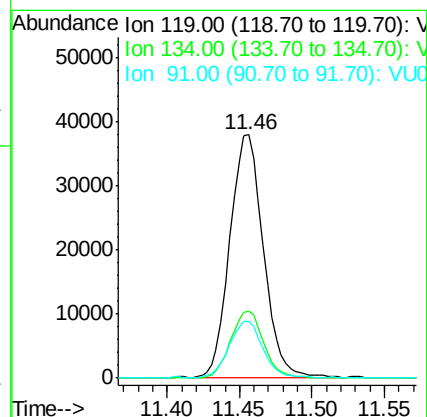
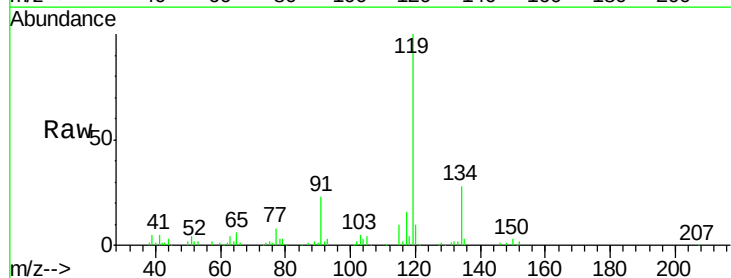
Tgt Ion:119 Resp: 60555

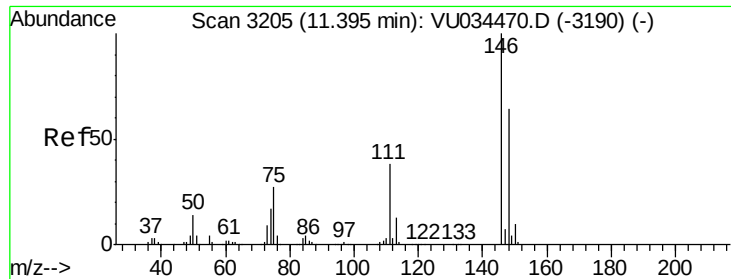
Ion Ratio Lower Upper

119 100

134 27.3 21.2 31.8

91 24.1 17.6 26.4





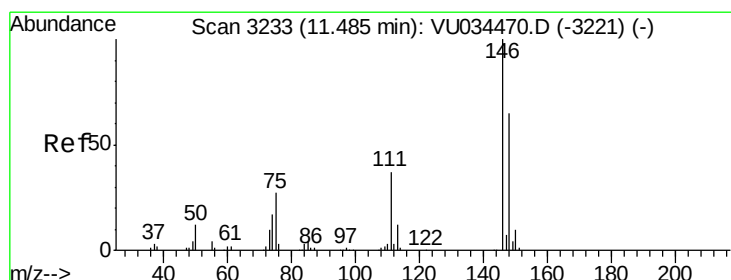
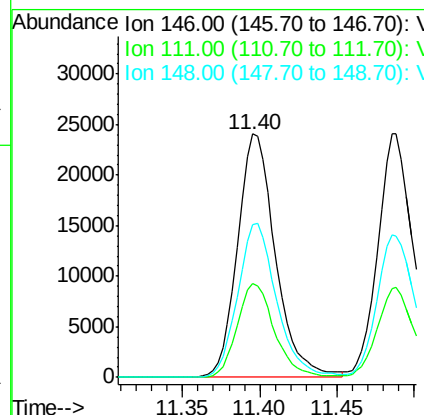
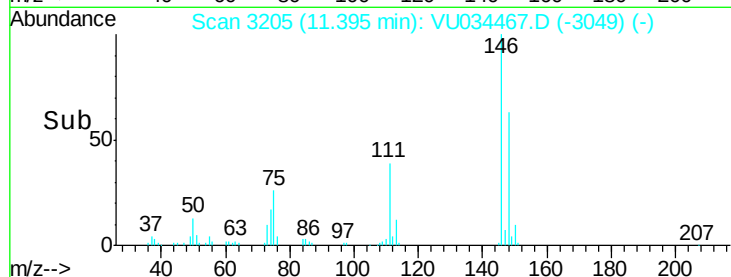
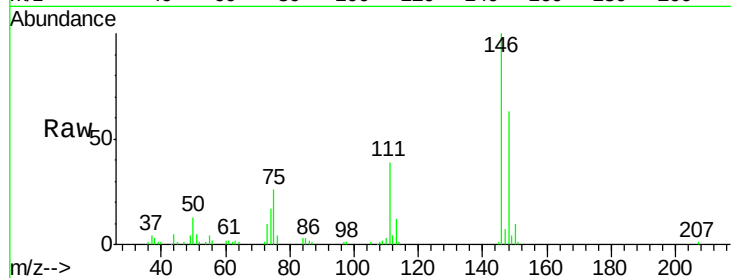
#82  
 1,3-Dichlorobenzene  
 Concen: 0.993 ug/l  
 RT: 11.40 min Scan# 3205  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 31.0  | 46.6  |
| 148     | 64.9  | 51.5  | 77.3  |

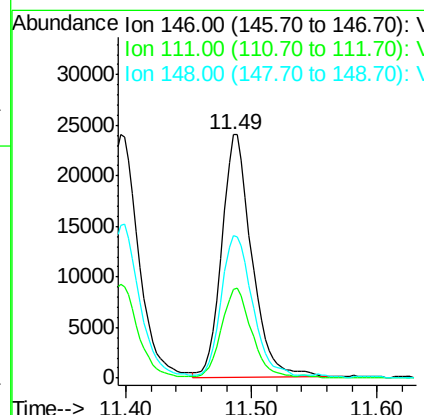
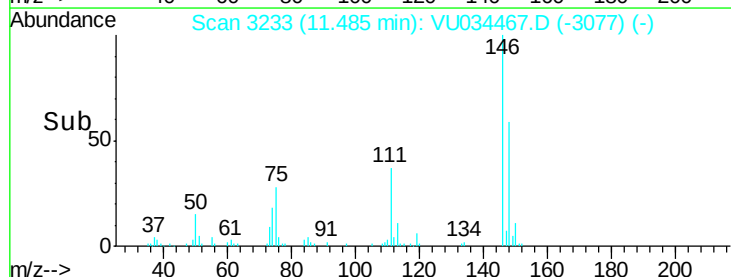
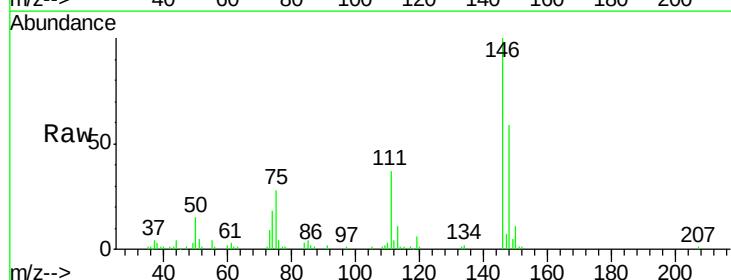
Manual Integrations  
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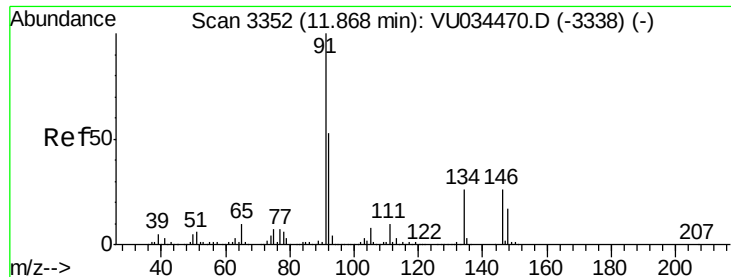
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#83  
 1,4-Dichlorobenzene  
 Concen: 0.978 ug/l  
 RT: 11.49 min Scan# 3233  
 Delta R.T. 0.00 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.1  | 29.5  | 44.3  |
| 148     | 60.0  | 51.0  | 76.4  |





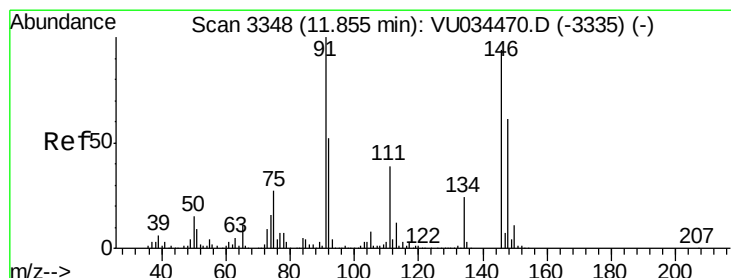
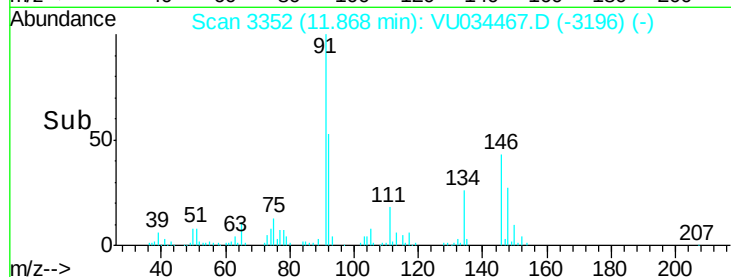
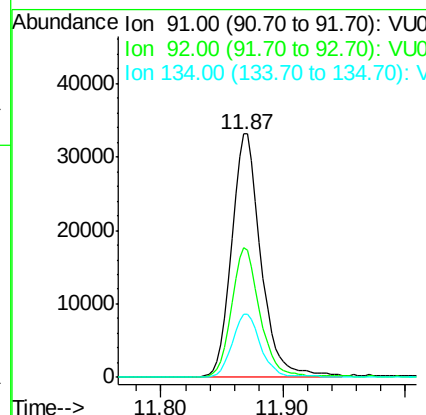
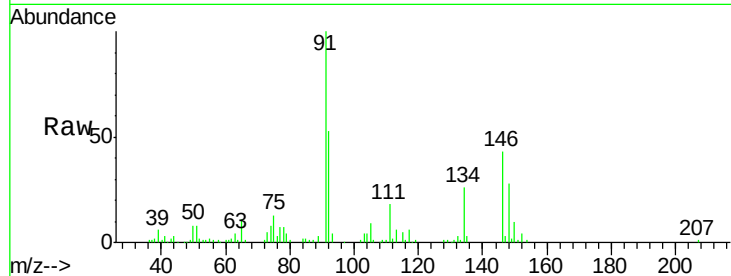
#84  
n-Butylbenzene  
Concen: 0.792 ug/l  
RT: 11.87 min Scan# 3352  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.2  | 42.4  | 63.6  |
| 134     | 25.2  | 21.0  | 31.4  |

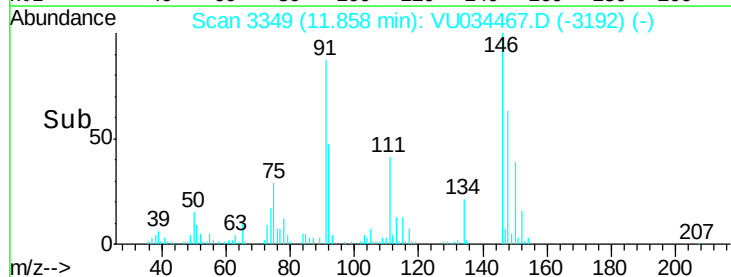
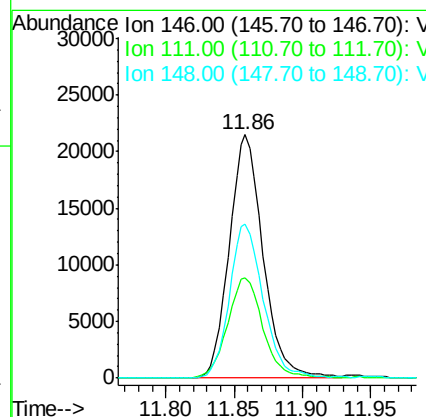
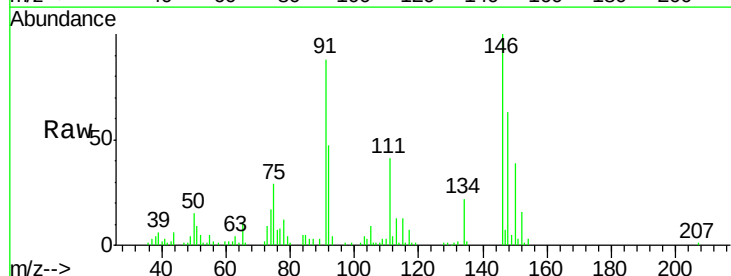
Manual Integrations  
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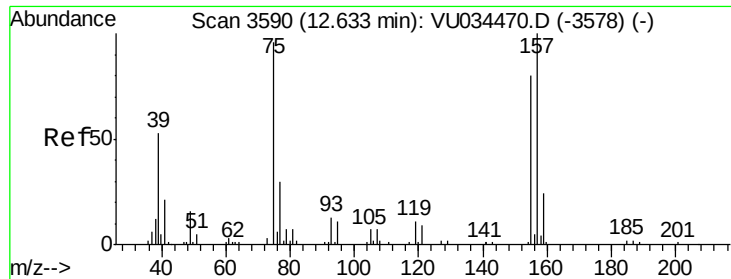
MMDadoda  
9/12/2019 4:53:17 PM



#85  
1,2-Dichlorobenzene  
Concen: 0.963 ug/l  
RT: 11.86 min Scan# 3349  
Delta R.T. 0.00 min  
Lab File: VU034467.D  
Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.2  | 20.3  | 60.8  |
| 148     | 63.1  | 32.2  | 96.6  |





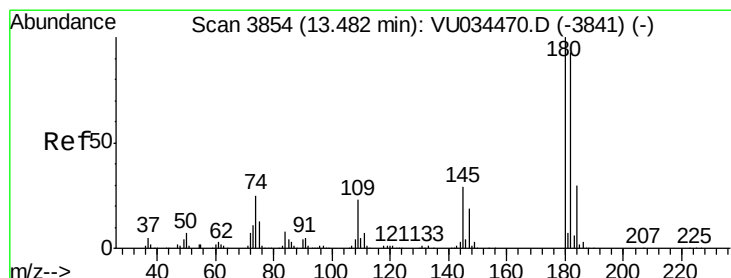
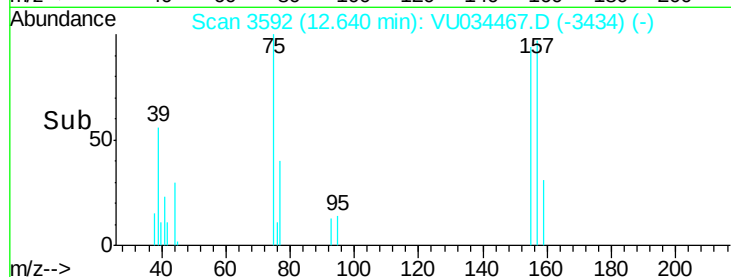
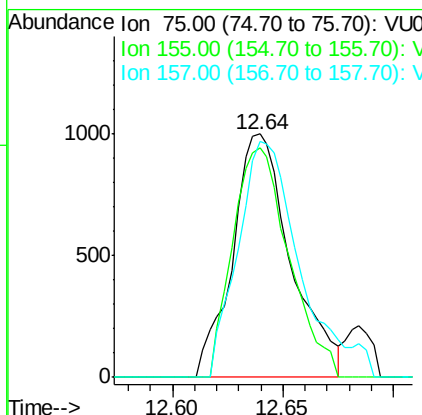
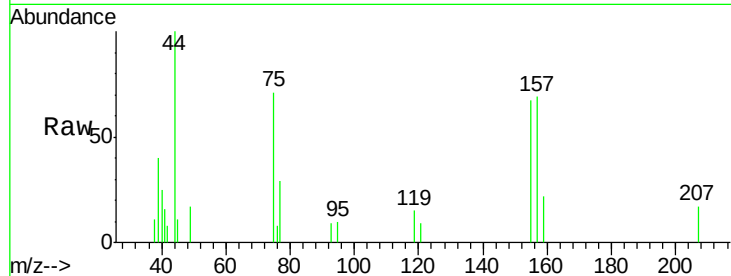
#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.641 ug/l  
 RT: 12.64 min Scan# 3592  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 90.3  | 68.9  | 103.3 |
| 157     | 103.1 | 89.9  | 134.9 |

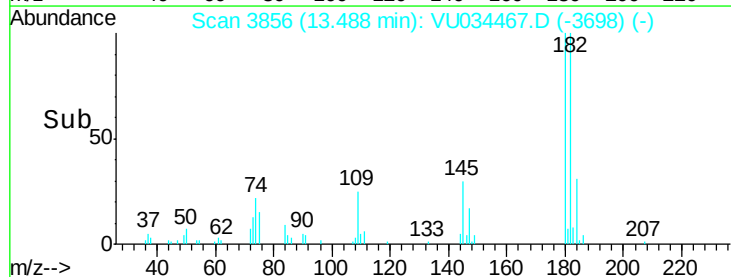
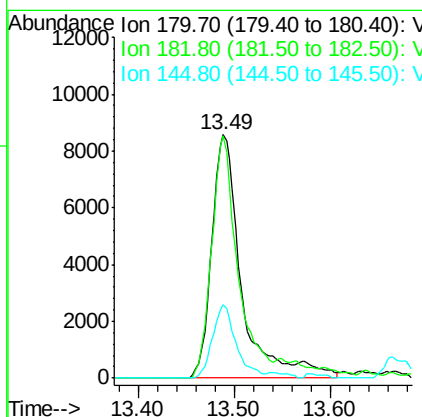
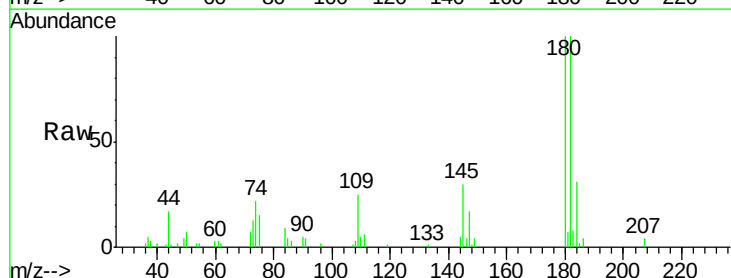
Manual Integrations  
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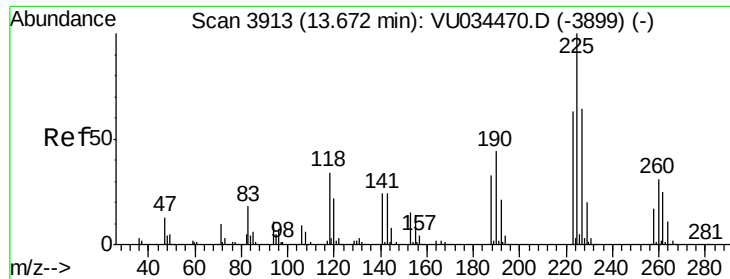
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#87  
 1,2,4-Trichlorobenzene  
 Concen: 0.809 ug/l m  
 RT: 13.49 min Scan# 3856  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 86.2  | 76.6  | 114.8 |
| 145     | 23.6  | 23.0  | 34.6  |





#88

Hexachlorobutadiene

Concen: 1.118 ug/l

RT: 13.67 min Scan# 3913

Delta R.T. 0.00 min

Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

Instrument :

MSVOA\_U

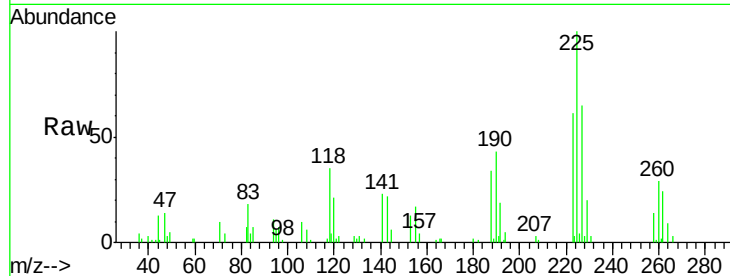
ClientSampled :

VSTDIC001

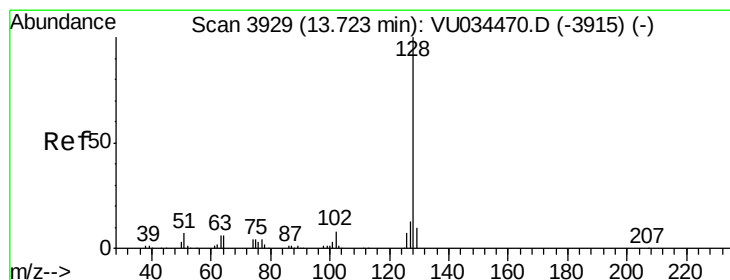
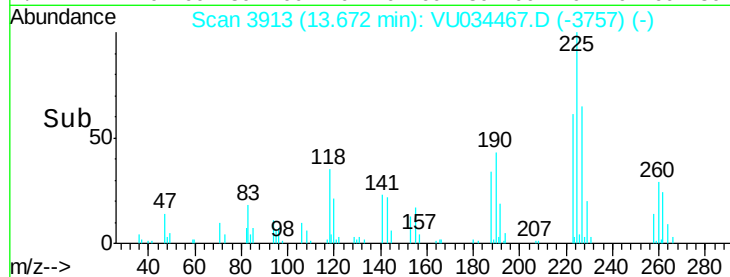
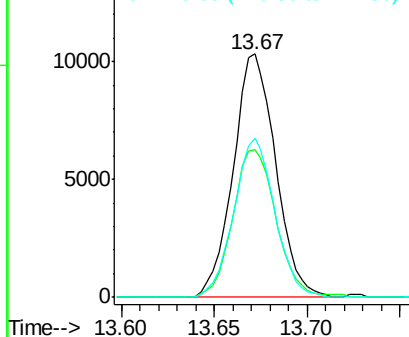
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 225   | Resp: | 16389 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 62.1  | 50.3  | 75.5  |
| 227       | 63.0  | 51.1  | 76.7  |

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



#89

Naphthalene

Concen: 0.551 ug/l

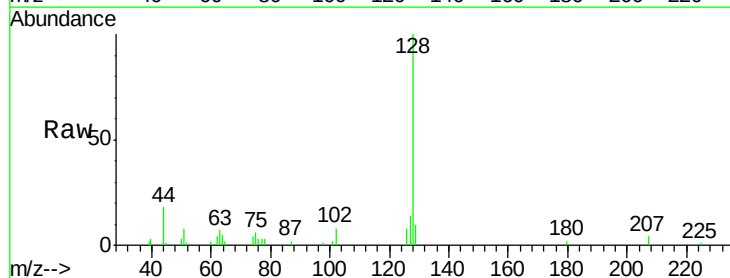
RT: 13.73 min Scan# 3931

Delta R.T. 0.01 min

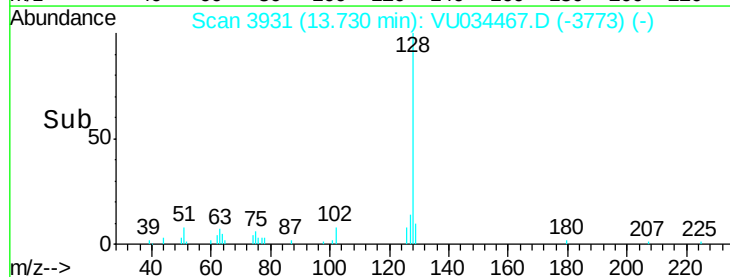
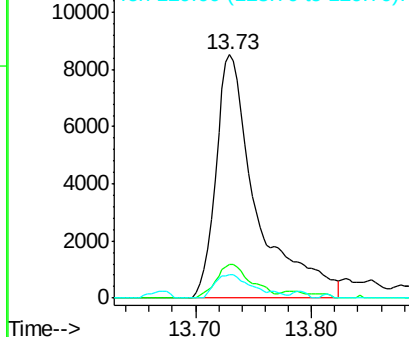
Lab File: VU034467.D

Acq: 11 Sep 2019 10:13

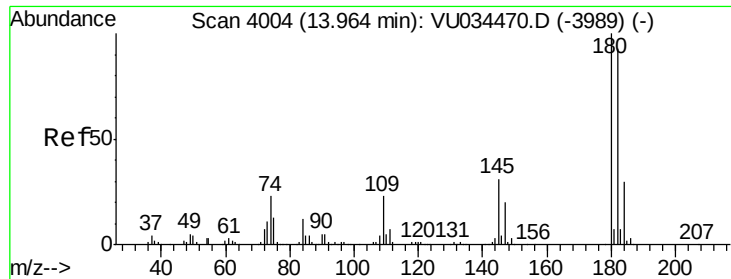
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 20756 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.0  | 10.2  | 15.2  |
| 129       | 9.2   | 8.0   | 12.0  |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V







#90  
 1,2,3-Trichlorobenzene  
 Concen: 0.764 ug/l m  
 RT: 13.97 min Scan# 4006  
 Delta R.T. 0.01 min  
 Lab File: VU034467.D  
 Acq: 11 Sep 2019 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.7  | 75.4  | 113.2 |
| 145     | 30.1  | 24.5  | 36.7  |

Manual Integrations  
 APPROVED

MMDadoda  
 9/12/2019 4:53:17 PM

