

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU102919\  
 Data File : VU035536.D  
 Acq On : 29 Oct 2019 12:01  
 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

Quant Time: Oct 30 05:26:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U102919DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Oct 30 05:08:49 2019  
 Response via : Initial Calibration

10/30/2019 10:39:40 AM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 6.16 | 96   | 78191    | 1.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                            |       |     |          |      |        |      |
|----------------------------|-------|-----|----------|------|--------|------|
| 57) 4-Bromofluorobenzene   | 10.66 | 95  | 28383    | 0.95 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 95.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 12.22 | 152 | 30050    | 0.93 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 93.00% |      |

#### Target Compounds

|                               |      |     |        |               | Qvalue |
|-------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.40 | 85  | 33422  | 1.162 ug/l    | 99     |
| 3) Chloromethane              | 1.54 | 50  | 41722  | 1.300 ug/l    | 99     |
| 4) Vinyl Chloride             | 1.62 | 62  | 36198  | 1.161 ug/l    | 99     |
| 5) Bromomethane               | 1.88 | 94  | 18471  | 1.037 ug/l    | 100    |
| 6) Chloroethane               | 1.95 | 64  | 20945  | 1.162 ug/l    | 95     |
| 7) Trichlorofluoromethane     | 2.16 | 101 | 44487  | 1.161 ug/l    | 98     |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 24312  | 1.175 ug/l    | 98     |
| 9) 1,1-Dichloroethene         | 2.61 | 96  | 23152  | 1.117 ug/l    | 98     |
| 10) Iodomethane               | 2.75 | 142 | 6942   | 0.386 ug/l    | 98     |
| 11) Allyl Chloride            | 2.96 | 41  | 39209  | 1.147 ug/l    | 97     |
| 12) Acrylonitrile             | 3.38 | 53  | 11624  | 2.600 ug/l    | 97     |
| 13) Acetone                   | 2.68 | 43  | 29945  | 7.942 ug/l    | 95     |
| 14) Carbon Disulfide          | 2.82 | 76  | 82941  | 1.139 ug/l    | 97     |
| 15) Methylene Chloride        | 3.08 | 84  | 31393  | 1.284 ug/l    | 98     |
| 16) trans-1,2-Dichloroethene  | 3.39 | 96  | 26038  | 1.124 ug/l    | 99     |
| 17) 1,1-Dichloroethane        | 3.92 | 63  | 48418  | 1.100 ug/l    | 95     |
| 18) 2-Butanone                | 4.79 | 43  | 34249  | 6.441 ug/l    | 98     |
| 19) Cyclohexane               | 5.42 | 56  | 35915m | 1.061 ug/l    |        |
| 20) Methylcyclohexane         | 6.80 | 83  | 36521  | 1.021 ug/l    | 95     |
| 21) 2,2-Dichloropropane       | 4.71 | 77  | 41042  | 1.130 ug/l    | 99     |
| 22) cis-1,2-Dichloroethene    | 4.72 | 96  | 26998  | 1.076 ug/l    | 96     |
| 23) Diethyl Ether             | 2.41 | 59  | 19459  | 1.232 ug/l    | 97     |
| 24) tert-Butyl Alcohol        | 3.27 | 59  | 23896  | 11.005 ug/l # | 86     |
| 25) Methyl tert-Butyl Ether   | 3.43 | 73  | 62298  | 1.232 ug/l    | 99     |
| 26) Bromochloromethane        | 5.02 | 128 | 12675  | 1.190 ug/l    | 99     |
| 27) Chloroform                | 5.14 | 83  | 53258  | 1.158 ug/l    | 99     |
| 28) 1,1,1-Trichloroethane     | 5.36 | 97  | 40520  | 1.126 ug/l    | 98     |
| 29) 1,1-Dichloropropene       | 5.57 | 75  | 32614  | 1.052 ug/l    | 99     |
| 30) Carbon Tetrachloride      | 5.56 | 117 | 35617  | 1.105 ug/l    | 99     |
| 31) Isopropyl Ether           | 4.06 | 45  | 64436  | 1.021 ug/l    | 90     |
| 32) Ethyl-t-butyl ether       | 4.57 | 59  | 58183  | 1.063 ug/l    | 99     |
| 33) Tert-Amyl methyl ether    | 6.01 | 73  | 49548  | 1.076 ug/l    | 98     |
| 34) Propionitrile             | 4.86 | 54  | 10745  | 7.065 ug/l #  | 92     |
| 35) Benzene                   | 5.82 | 78  | 101607 | 1.092 ug/l    | 96     |
| 36) 1,2-Dichloroethane        | 5.84 | 62  | 29582  | 1.221 ug/l    | 100    |
| 37) Trichloroethene           | 6.58 | 130 | 28342  | 1.090 ug/l    | 100    |
| 38) 1,2-Dichloropropane       | 6.84 | 63  | 27367  | 1.105 ug/l    | 99     |
| 39) Methacrylonitrile         | 5.04 | 41  | 6995   | 1.113 ug/l #  | 86     |
| 40) Methyl acrylate           | 4.92 | 55  | 10504  | 1.095 ug/l #  | 95     |
| 41) Tetrahydrofuran           | 5.14 | 42  | 7720   | 2.402 ug/l #  | 36     |
| 42) 1-Chlorobutane            | 5.50 | 56  | 44598  | 1.060 ug/l    | 96     |

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU102919\  
 Data File : VU035536.D  
 Acq On : 29 Oct 2019 12:01  
 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

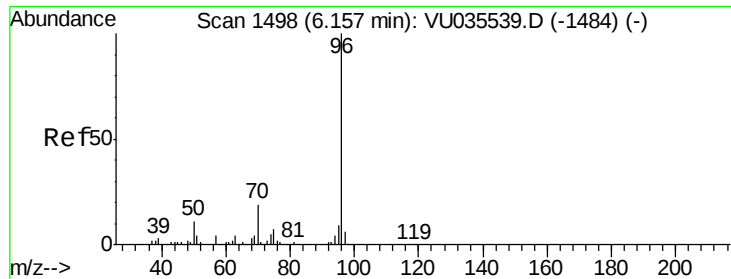
Quant Time: Oct 30 05:26:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U102919DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Oct 30 05:08:49 2019  
 Response via : Initial Calibration

10/30/2019 10:39:40 AM

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.96  | 93   | 14372    | 1.212 | ug/l   | 97       |
| 44) Bromodichloromethane       | 7.15  | 83   | 36630    | 1.216 | ug/l   | 99       |
| 45) 4-Methyl-2-Pentanone       | 7.85  | 43   | 69373    | 5.729 | ug/l   | 98       |
| 46) t-1,4-Dichloro-2-butene    | 10.87 | 75   | 8175m    | 1.622 | ug/l   |          |
| 47) Methyl methacrylate        | 7.02  | 69   | 22150    | 2.339 | ug/l   | 95       |
| 48) Ethyl methacrylate         | 8.38  | 69   | 17459    | 1.022 | ug/l   | 93       |
| 49) Toluene                    | 8.01  | 92   | 56250    | 1.037 | ug/l   | 99       |
| 50) t-1,3-Dichloropropene      | 8.25  | 75   | 28823    | 1.139 | ug/l   | 96       |
| 51) cis-1,3-Dichloropropene    | 7.65  | 75   | 35798    | 1.143 | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane      | 8.44  | 97   | 20122    | 1.224 | ug/l   | 98       |
| 53) 1,3-Dichloropropane        | 8.61  | 76   | 32920    | 1.194 | ug/l   | 100      |
| 54) 2-Hexanone                 | 8.74  | 43   | 48312    | 5.916 | ug/l   | 94       |
| 55) Dibromochloromethane       | 8.84  | 129  | 23806    | 1.191 | ug/l   | 100      |
| 56) 1,2-Dibromoethane          | 8.96  | 107  | 17140    | 1.129 | ug/l   | 95       |
| 58) Tetrachloroethene          | 8.58  | 164  | 26616    | 1.082 | ug/l   | 95       |
| 59) Chlorobenzene              | 9.48  | 112  | 65513    | 1.076 | ug/l   | 96       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.56  | 131  | 26348    | 1.164 | ug/l   | 99       |
| 61) Pentachloroethane          | 11.45 | 117  | 21419    | 1.164 | ug/l   | 95       |
| 62) Hexachloroethane           | 12.50 | 117  | 19629    | 1.195 | ug/l   | 98       |
| 63) Ethyl Benzene              | 9.60  | 91   | 95745    | 0.986 | ug/l   | 99       |
| 64) m/p-Xylenes                | 9.73  | 106  | 73414    | 1.873 | ug/l # | 3        |
| 65) o-Xylene                   | 10.13 | 106  | 36605    | 0.980 | ug/l   | 99       |
| 66) Styrene                    | 10.14 | 104  | 59447    | 0.949 | ug/l   | 99       |
| 67) Bromoform                  | 10.32 | 173  | 15007    | 1.260 | ug/l   | 98       |
| 69) Isopropylbenzene           | 10.51 | 105  | 96683    | 0.991 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 25854    | 1.216 | ug/l # | 64       |
| 71) 1,2,3-Trichloropropane     | 10.85 | 75   | 22168m   | 1.495 | ug/l   |          |
| 72) Bromobenzene               | 10.81 | 156  | 27916    | 1.049 | ug/l   | 99       |
| 73) n-propylbenzene            | 10.93 | 120  | 25578    | 0.909 | ug/l   | 94       |
| 74) 2-Chlorotoluene            | 11.01 | 126  | 25411    | 0.999 | ug/l   | 95       |
| 75) 1,3,5-Trimethylbenzene     | 11.11 | 105  | 76256    | 0.881 | ug/l   | 99       |
| 76) 4-Chlorotoluene            | 11.12 | 126  | 26214    | 1.010 | ug/l   | 98       |
| 77) tert-Butylbenzene          | 11.45 | 119  | 80719    | 0.955 | ug/l   | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.49 | 105  | 78263    | 0.896 | ug/l   | 98       |
| 79) sec-Butylbenzene           | 11.67 | 105  | 101923   | 0.900 | ug/l   | 100      |
| 80) Nitrobenzene               | 13.24 | 77   | 1746     | 4.017 | ug/l # | 83       |
| 81) p-Isopropyltoluene         | 11.82 | 119  | 80068    | 0.854 | ug/l # | 69       |
| 82) 1,3-Dichlorobenzene        | 11.77 | 146  | 54616    | 0.998 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene        | 11.86 | 146  | 50432    | 0.929 | ug/l   | 100      |
| 84) n-Butylbenzene             | 12.23 | 91   | 66504    | 0.778 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene        | 12.24 | 146  | 50700    | 1.016 | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 13.03 | 75   | 2904     | 1.037 | ug/l   | 97       |
| 87) 1,2,4-Trichlorobenzene     | 13.87 | 180  | 14276    | 0.525 | ug/l   | 94       |
| 88) Hexachlorobutadiene        | 14.04 | 225  | 20261    | 0.954 | ug/l   | 98       |
| 89) Naphthalene                | 14.11 | 128  | 15320    | 0.431 | ug/l # | 92       |
| 90) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 14552    | 0.575 | ug/l   | 100      |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.16 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

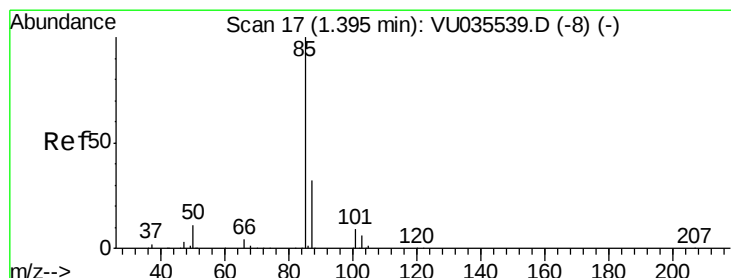
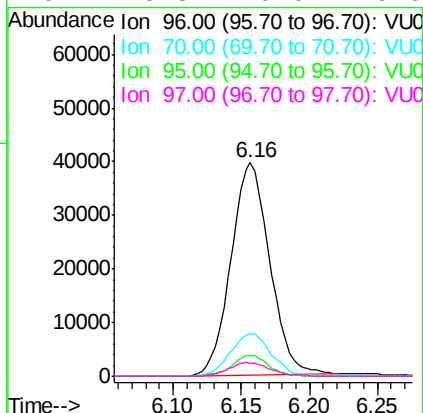
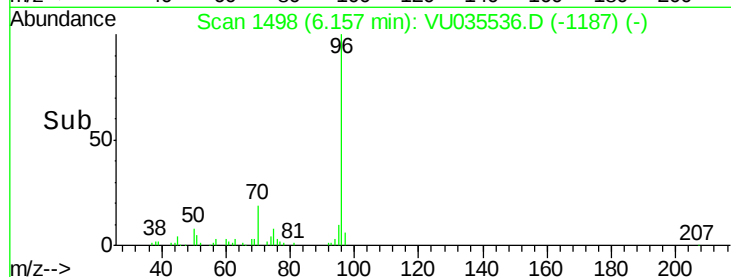
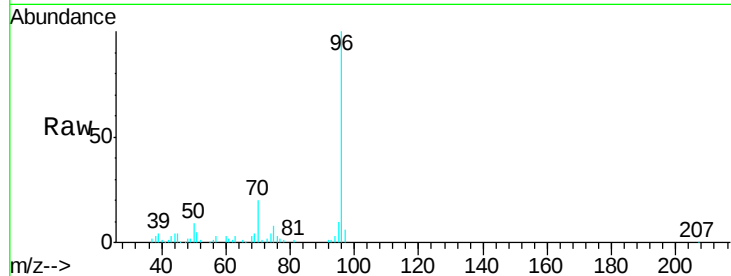
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 70      | 21.1  | 15.8  | 23.8  |
| 95      | 9.2   | 7.4   | 11.2  |
| 97      | 6.8   | 0.0   | 0.0#  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 1.162 ug/l

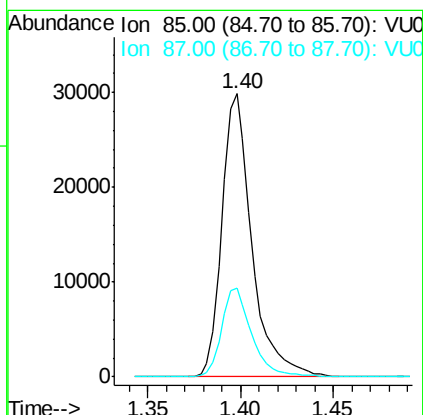
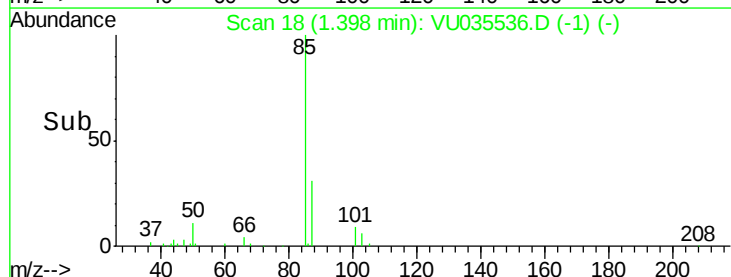
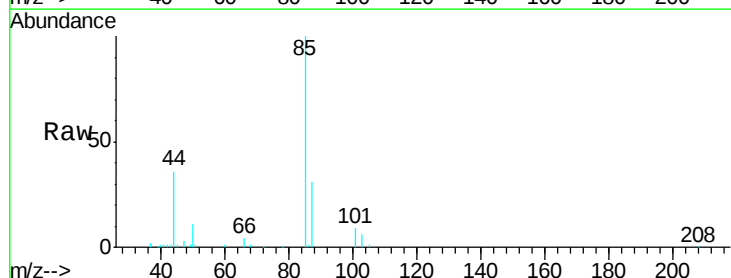
RT: 1.40 min Scan# 18

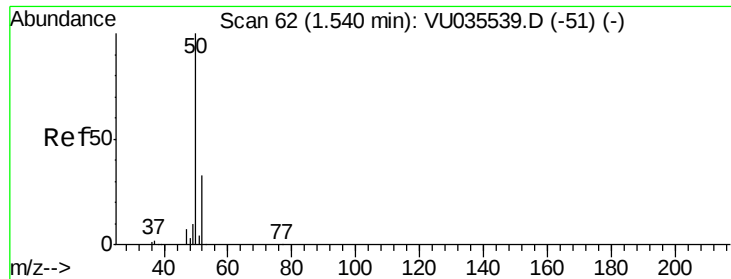
Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 31.3  | 15.8  | 47.4  |





#3

Chloromethane

Concen: 1.300 ug/l

RT: 1.54 min Scan# 62

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 50 Resp: 41722

Ion Ratio Lower Upper

50 100

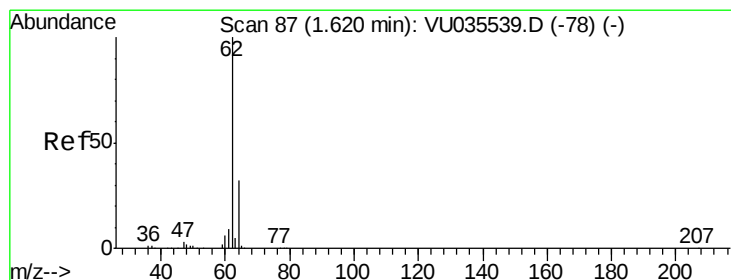
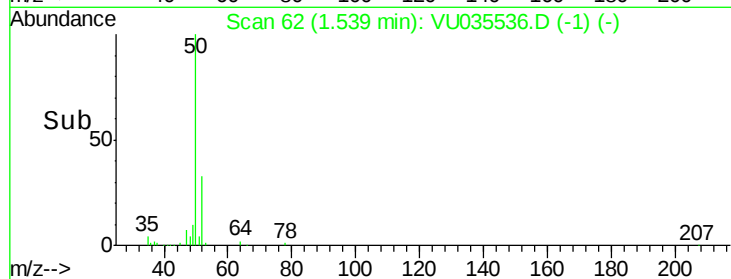
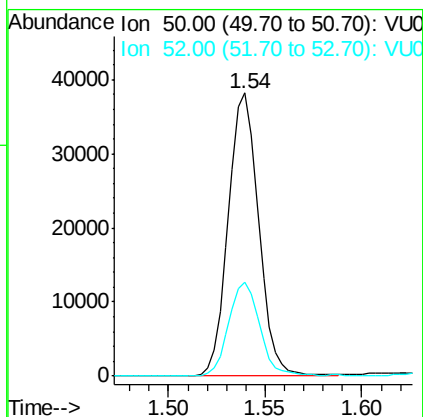
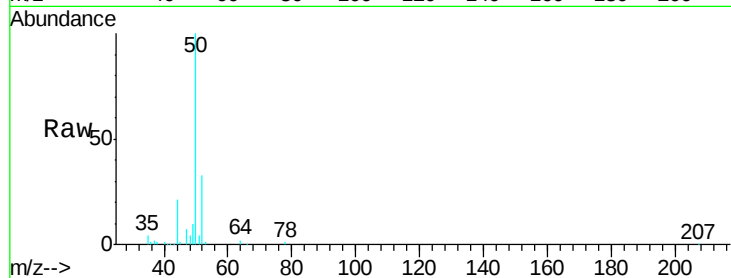
52 33.0 26.0 39.0

Manual Integrations

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10/30/2019 10:39:40 AM



#4

Vinyl Chloride

Concen: 1.161 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035536.D

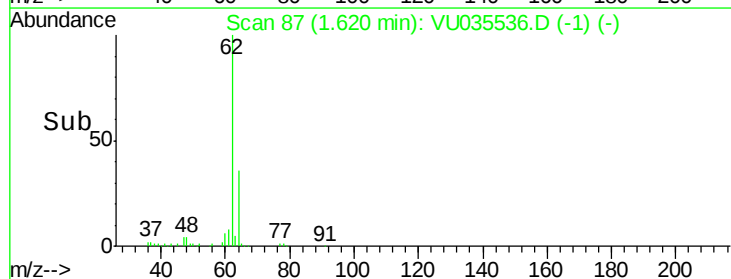
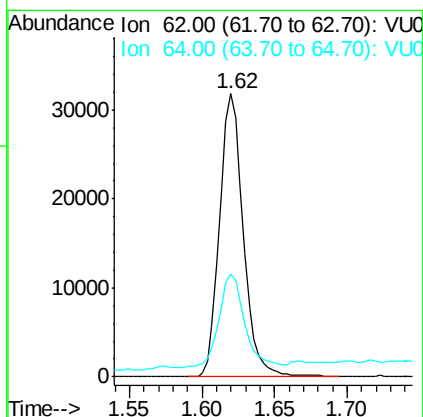
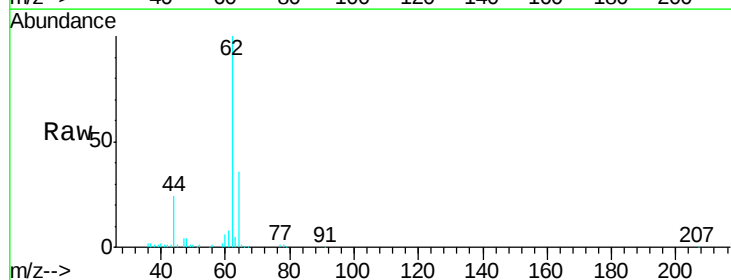
Acq: 29 Oct 2019 12:01

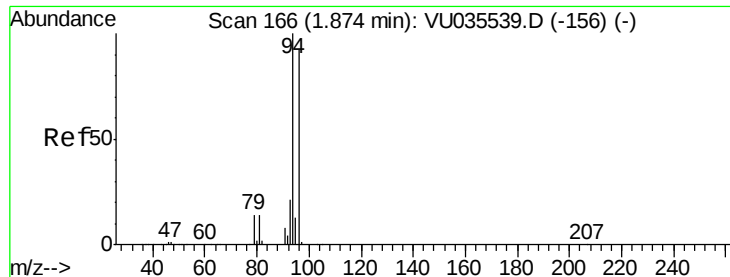
Tgt Ion: 62 Resp: 36198

Ion Ratio Lower Upper

62 100

64 32.8 25.6 38.4





#5

Bromomethane

Concen: 1.037 ug/l

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 94 Resp: 18471

Ion Ratio Lower Upper

94 100

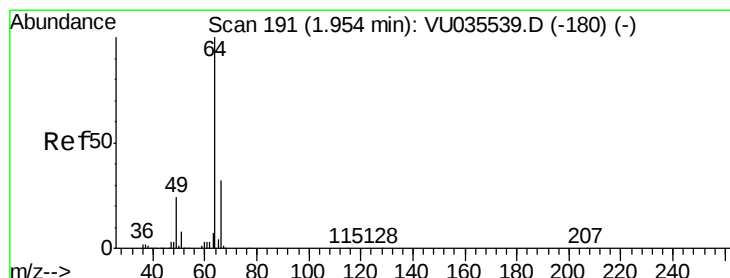
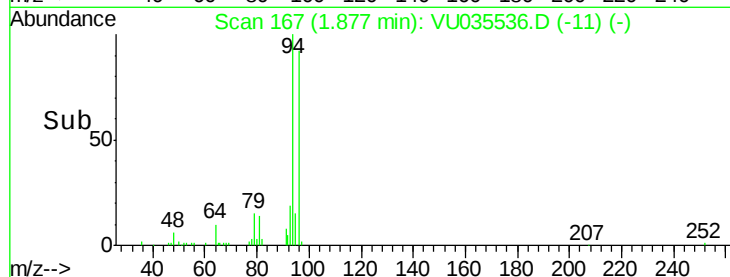
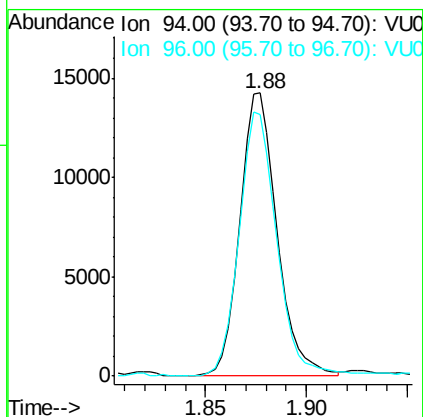
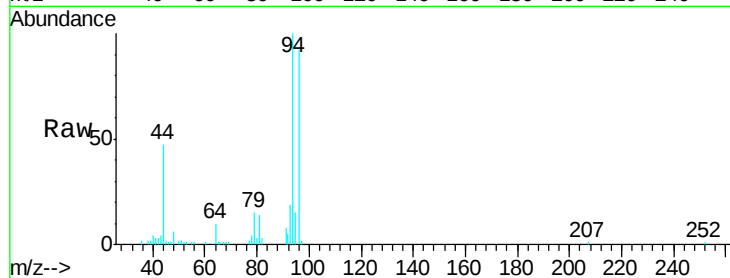
96 92.4 73.8 110.8

Manual Integrations

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10/30/2019 10:39:40 AM



#6

Chloroethane

Concen: 1.162 ug/l

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035536.D

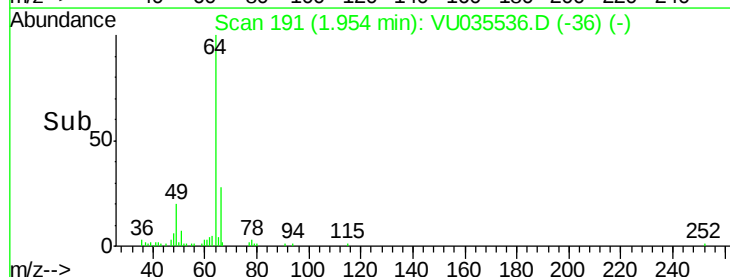
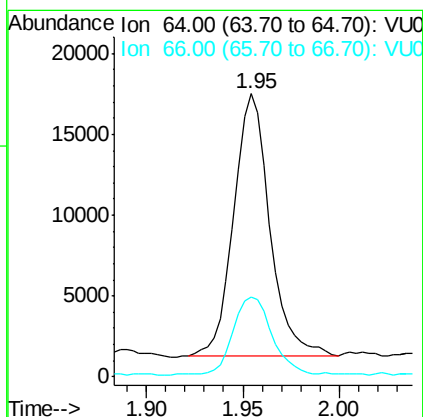
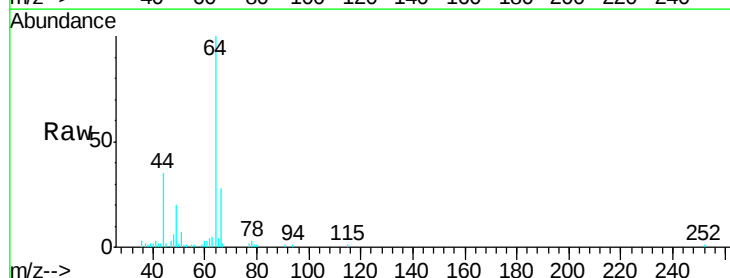
Acq: 29 Oct 2019 12:01

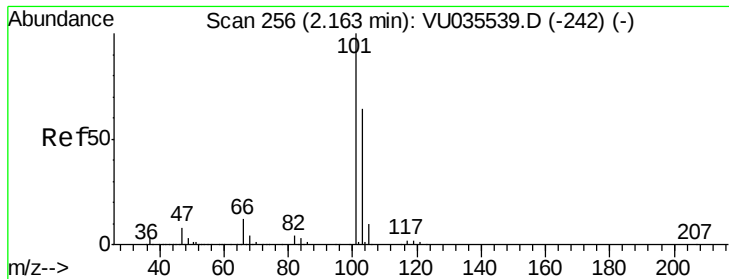
Tgt Ion: 64 Resp: 20945

Ion Ratio Lower Upper

64 100

66 29.6 25.9 38.9





#7

Trichlorofluoromethane  
Concen: 1.161 ug/l  
RT: 2.16 min Scan# 255  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

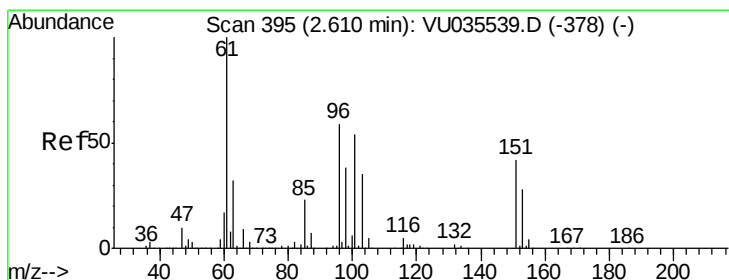
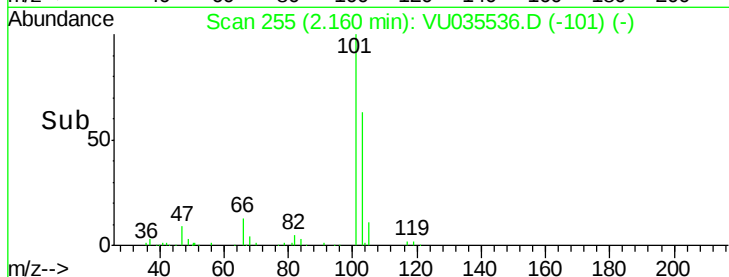
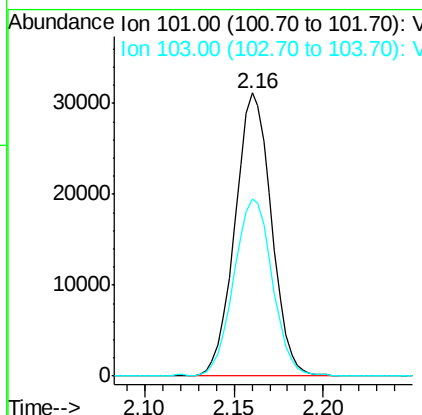
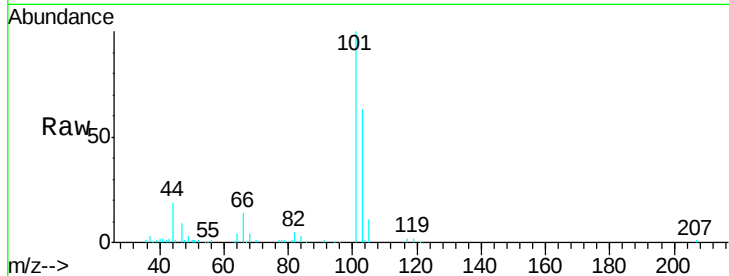
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 62.6  | 51.0  | 76.6  |

Manual Integrations  
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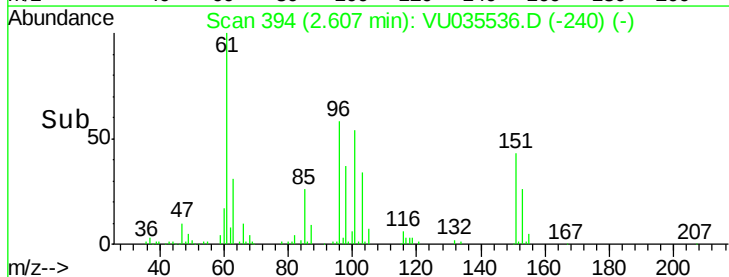
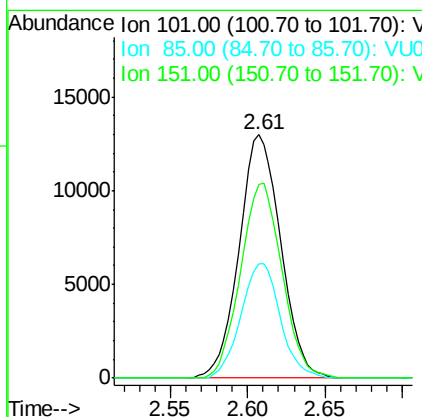
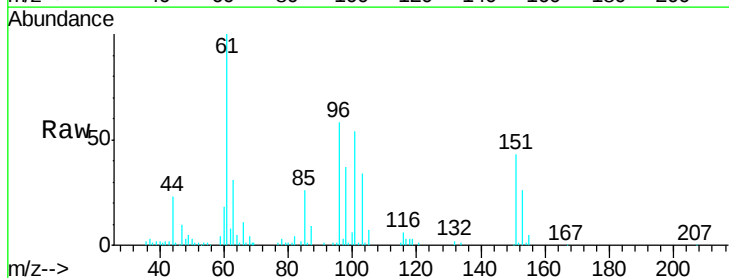
10/30/2019 10:39:40 AM

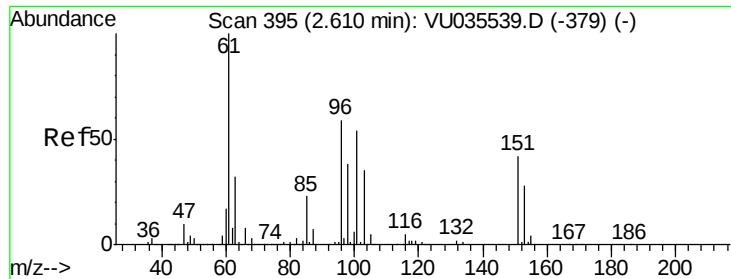


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 1.175 ug/l  
RT: 2.61 min Scan# 394  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 44.4  | 35.8  | 53.6  |
| 151     | 79.7  | 61.8  | 92.6  |





#9

1,1-Dichloroethene

Concen: 1.117 ug/l

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

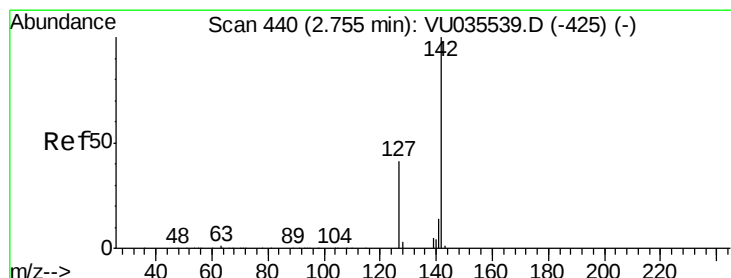
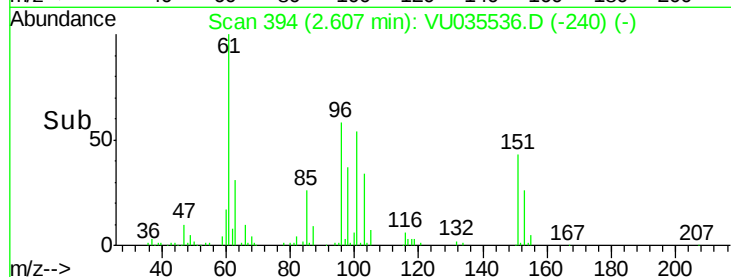
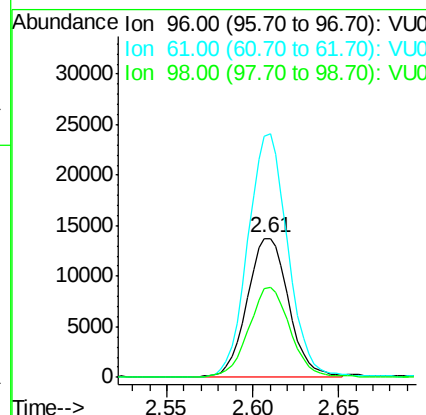
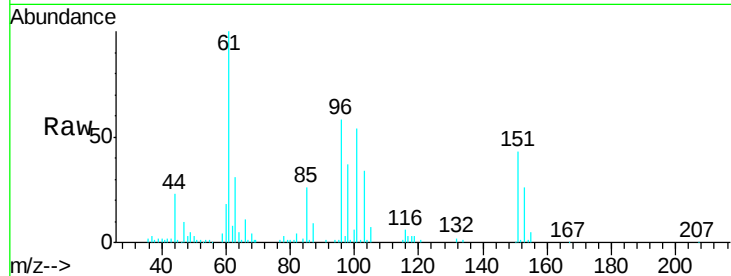
VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 23152 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 173.1 | 0.0   | 508.8 |
| 98       | 63.6  | 0.0   | 130.4 |

Manual Integrations  
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#10

Iodomethane

Concen: 0.386 ug/l

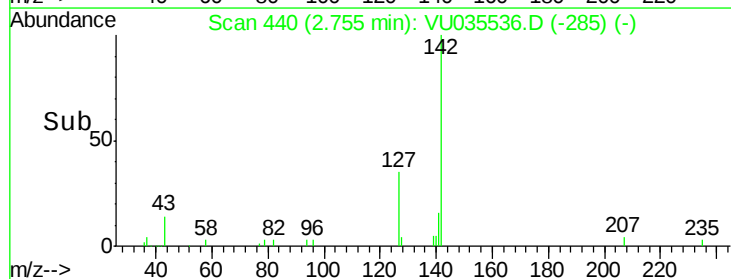
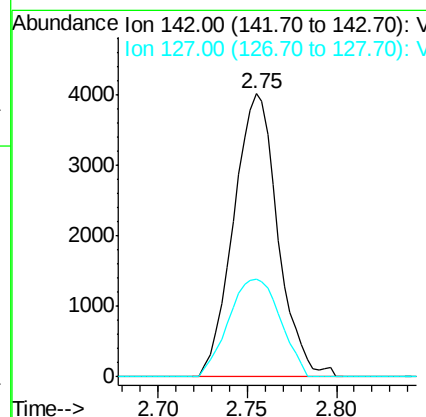
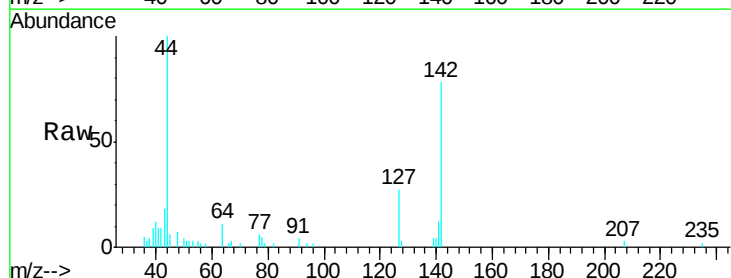
RT: 2.75 min Scan# 440

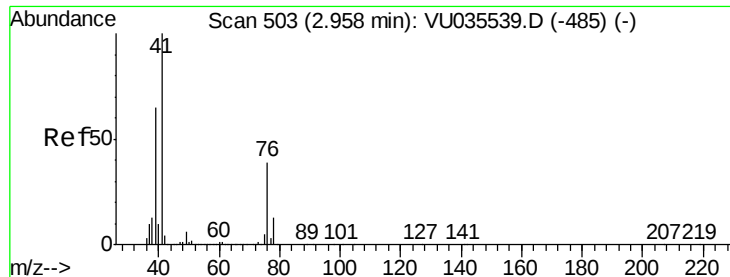
Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 6942  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 40.3  | 33.4  | 50.0  |





#11  
 Allyl Chloride  
 Concen: 1.147 ug/l  
 RT: 2.96 min Scan# 503  
 Delta R.T. -0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

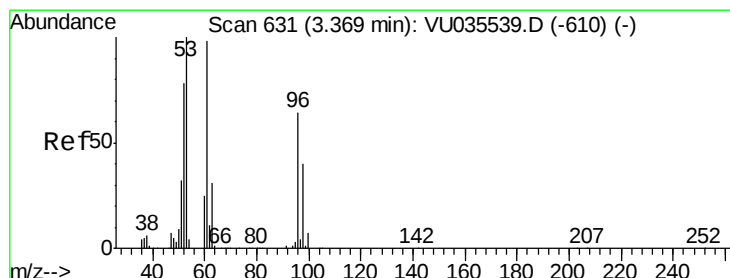
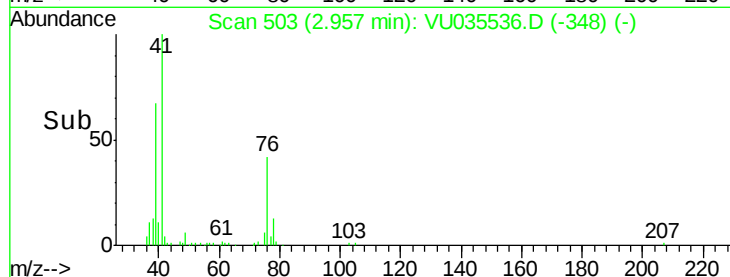
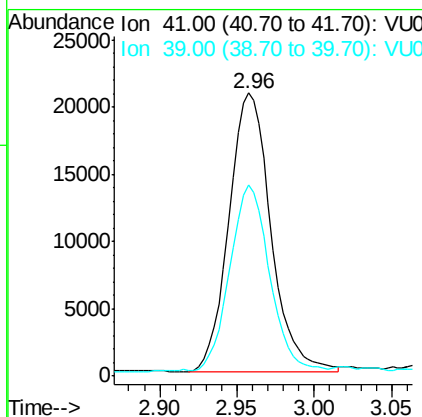
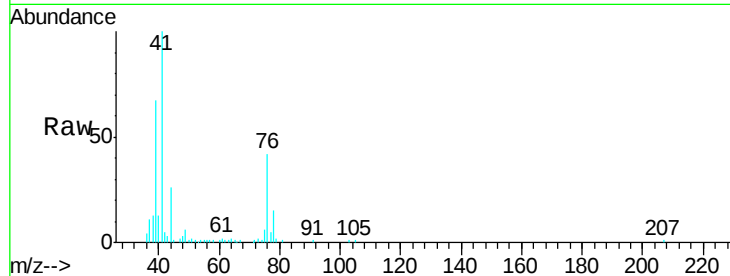
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 41 Resp: 39209  
 Ion Ratio Lower Upper  
 41 100  
 39 62.9 52.0 78.0

Manual Integrations  
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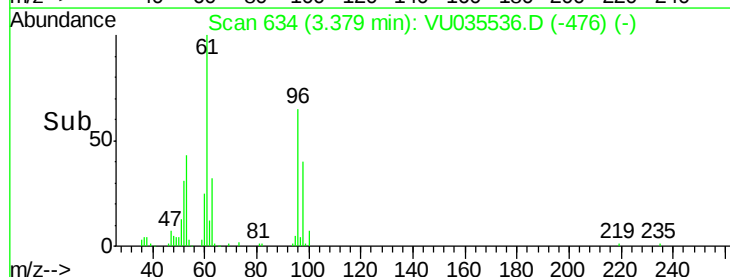
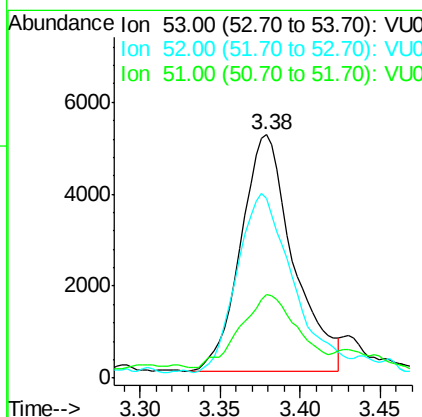
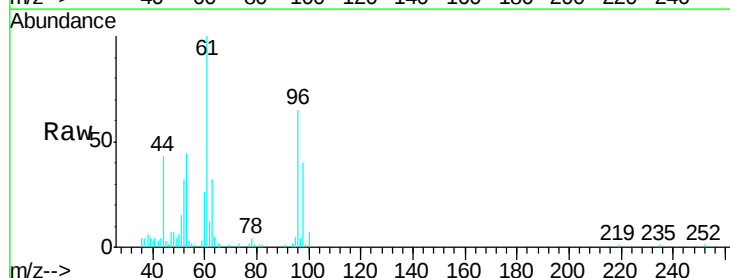
MMDadoda

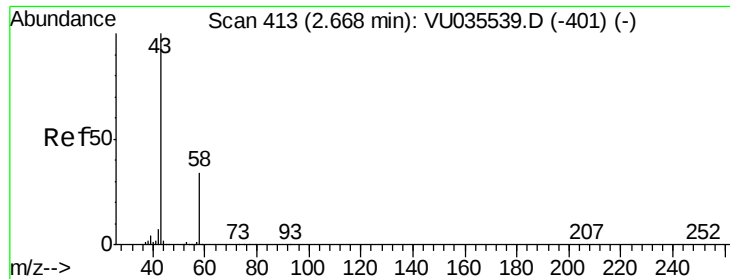
10/30/2019 10:39:40 AM



#12  
 Acrylonitrile  
 Concen: 2.600 ug/l  
 RT: 3.38 min Scan# 634  
 Delta R.T. 0.01 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

Tgt Ion: 53 Resp: 11624  
 Ion Ratio Lower Upper  
 53 100  
 52 80.7 67.4 101.0  
 51 33.7 27.0 40.4





#13

Acetone

Concen: 7.942 ug/l

RT: 2.68 min Scan# 416

Delta R.T. 0.01 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 29945

Ion Ratio Lower Upper

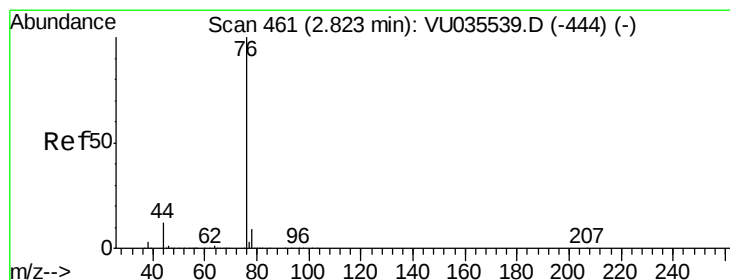
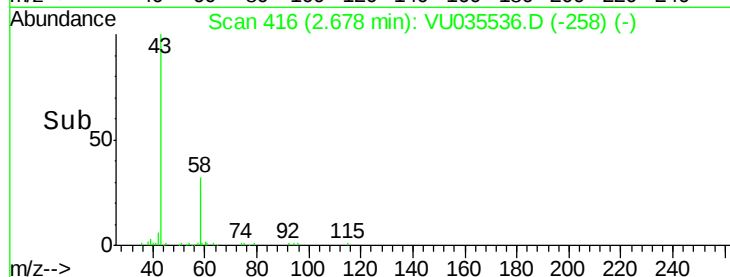
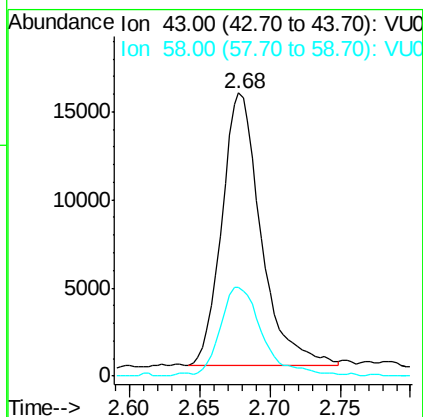
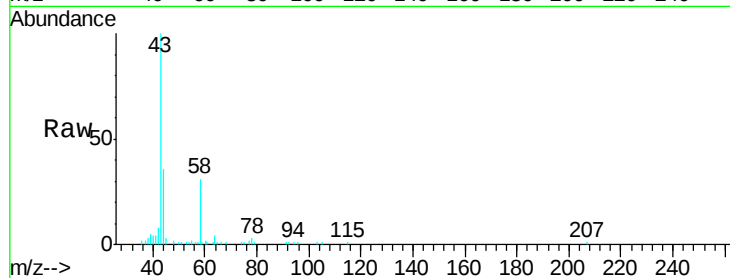
43 100

58 31.8 27.6 41.4

Manual Integrations  
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#14

Carbon Disulfide

Concen: 1.139 ug/l

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035536.D

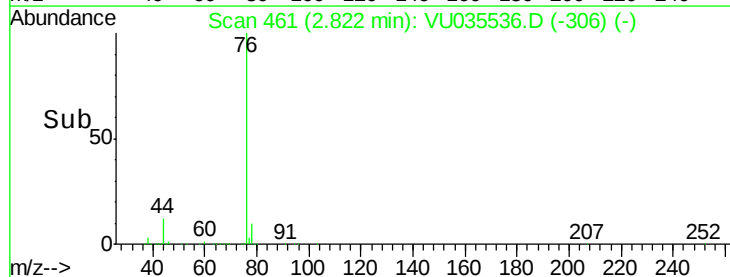
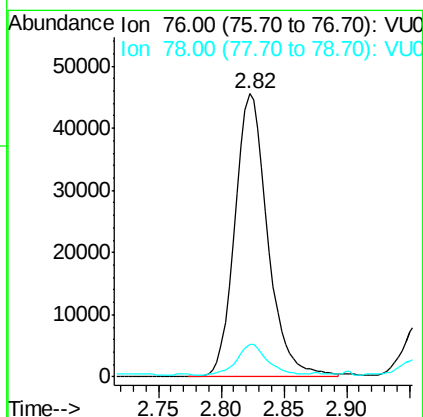
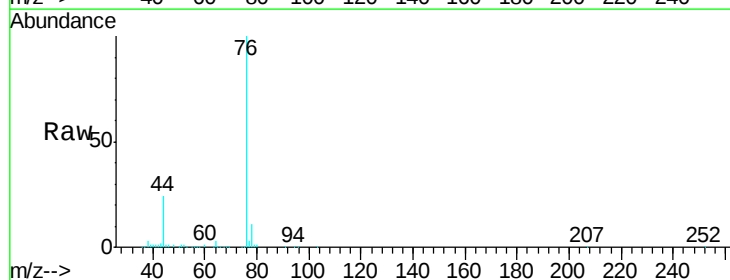
Acq: 29 Oct 2019 12:01

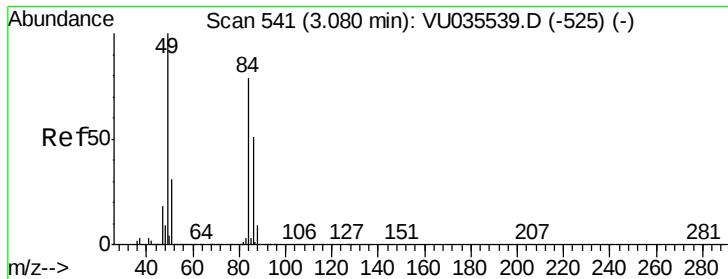
Tgt Ion: 76 Resp: 82941

Ion Ratio Lower Upper

76 100

78 10.5 7.4 11.2





#15  
Methylene Chloride  
Concen: 1.284 ug/l  
RT: 3.08 min Scan# 542  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

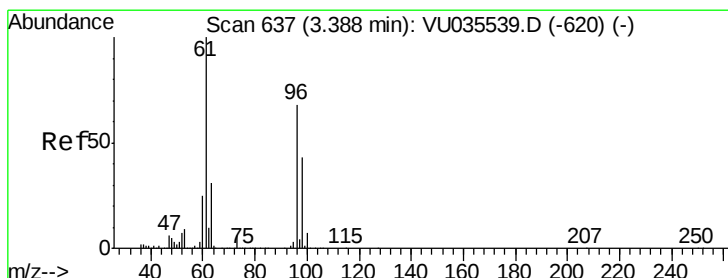
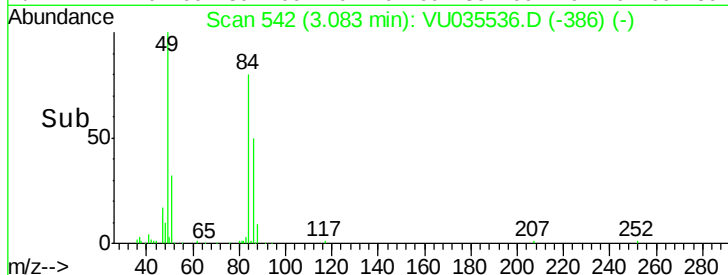
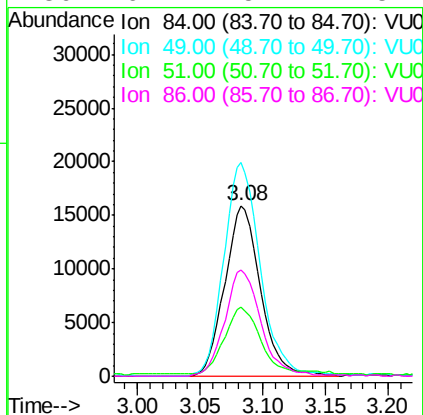
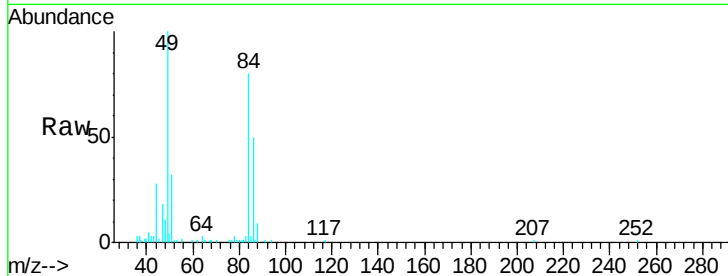
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 125.2 | 101.5 | 152.3 |
| 51      | 39.1  | 0.0   | 78.6  |
| 86      | 62.7  | 52.2  | 78.2  |

Manual Integrations  
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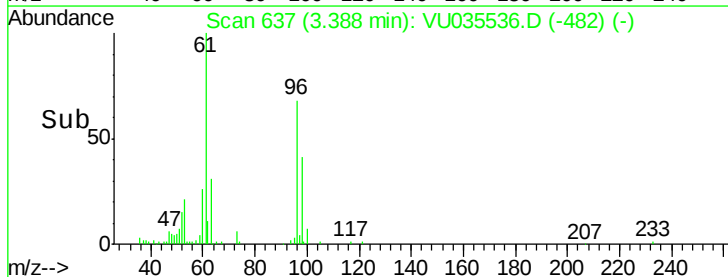
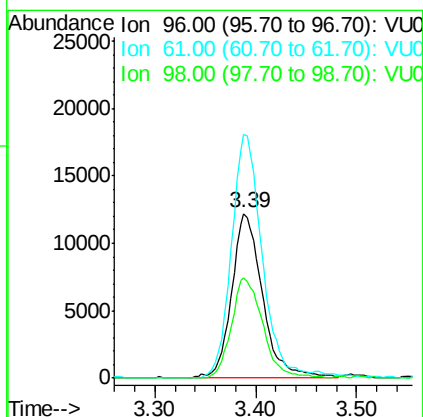
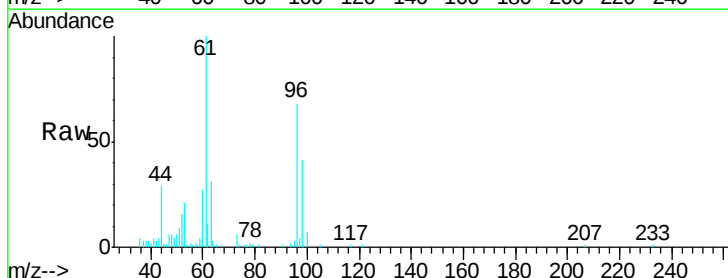
MMDadoda

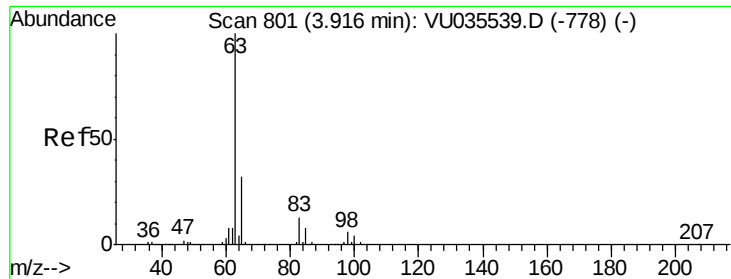
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#16  
trans-1,2-Dichloroethene  
Concen: 1.124 ug/l  
RT: 3.39 min Scan# 637  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 148.1 | 117.8 | 176.8 |
| 98      | 60.9  | 50.2  | 75.2  |





#17  
 1,1-Dichloroethane  
 Concen: 1.100 ug/l  
 RT: 3.92 min Scan# 802  
 Delta R.T. 0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

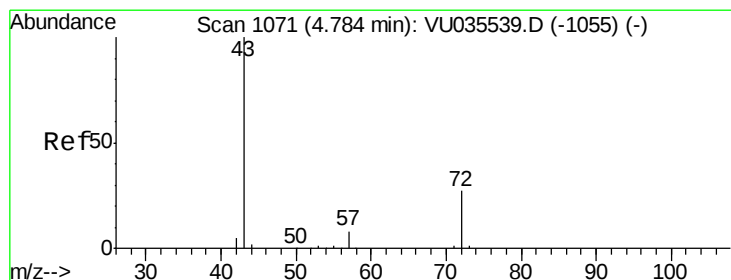
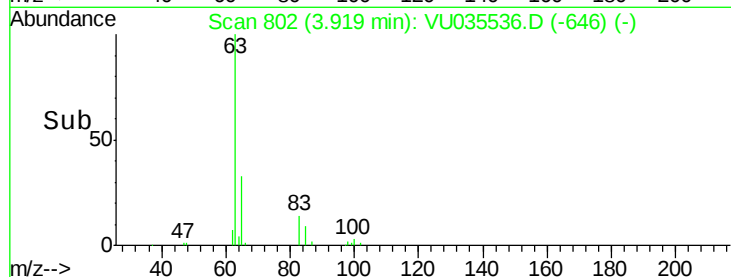
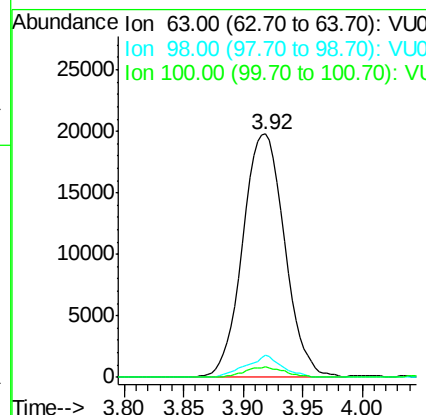
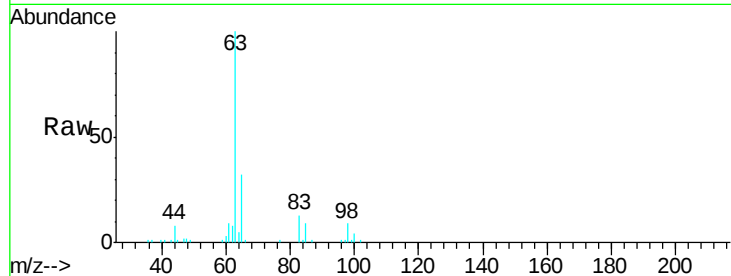
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 48418 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 8.9   | 3.1   | 9.3   |
| 100      | 4.3   | 2.1   | 6.3   |

Manual Integrations  
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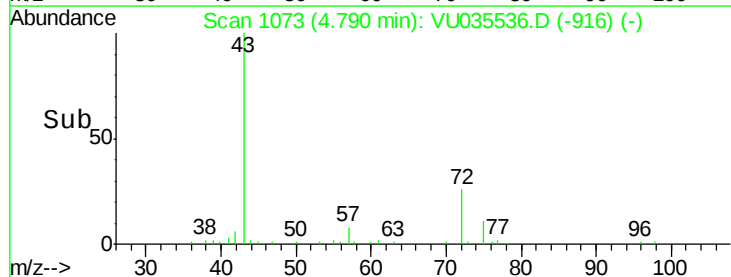
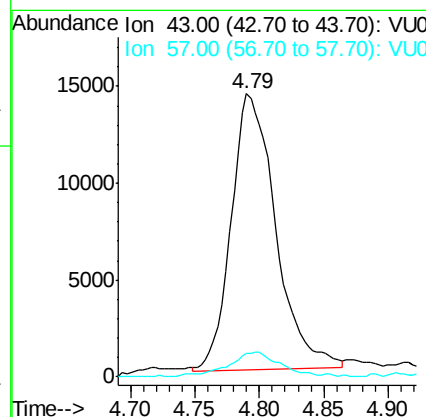
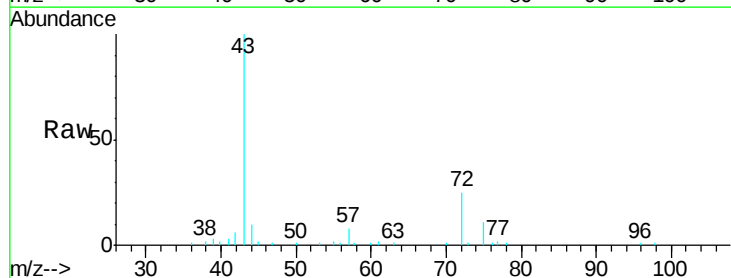
MMDadoda

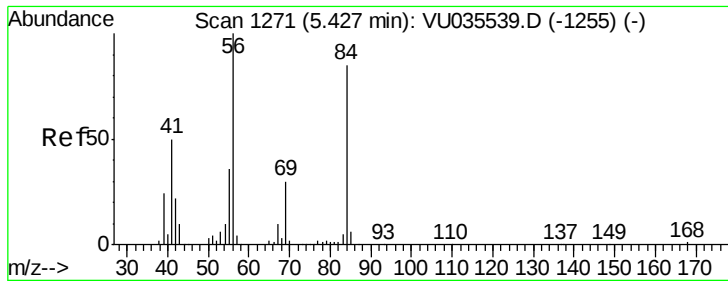
10/30/2019 10:39:40 AM



#18  
 2-Butanone  
 Concen: 6.441 ug/l  
 RT: 4.79 min Scan# 1073  
 Delta R.T. 0.01 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 34249 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 57       | 7.8   | 0.0   | 17.0  |





#19  
Cyclohexane  
Concen: 1.061 ug/l m  
RT: 5.42 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

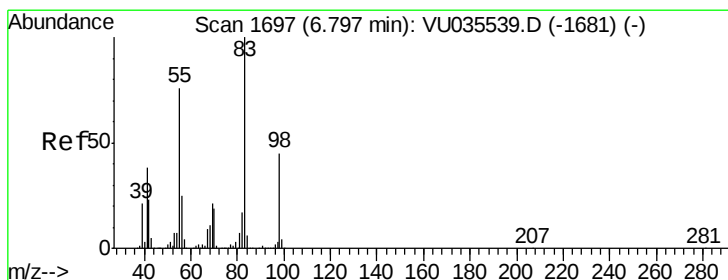
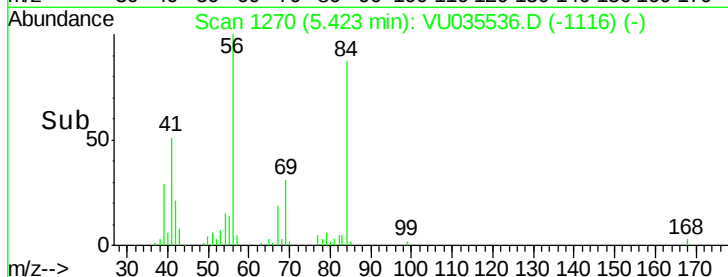
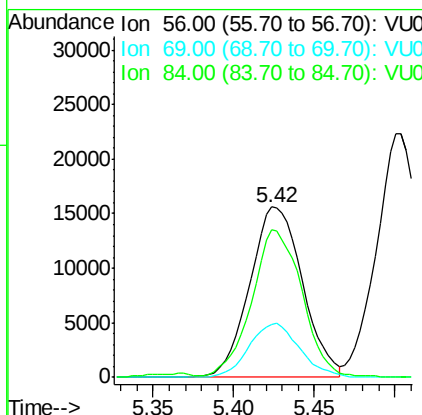
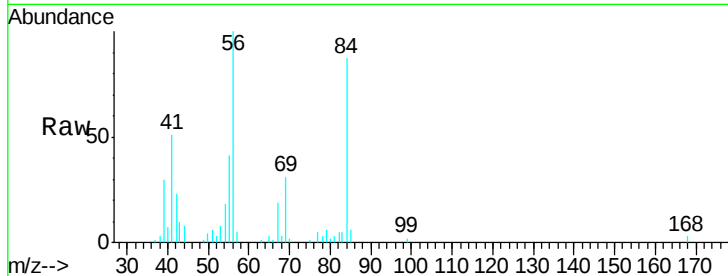
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 30.1  | 26.4  | 39.6  |
| 84      | 81.4  | 72.9  | 109.3 |

Manual Integrations  
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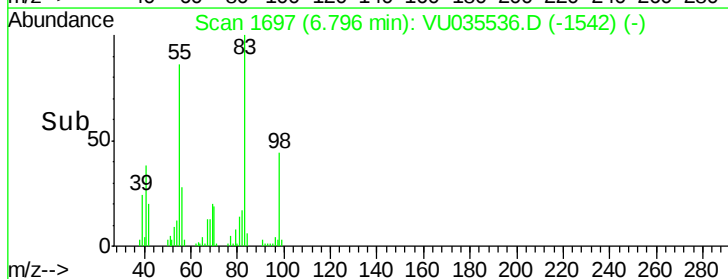
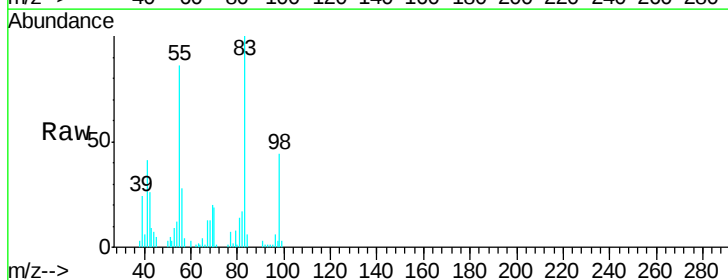
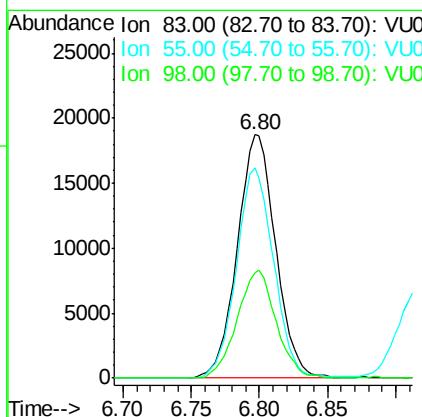
MMDadoda

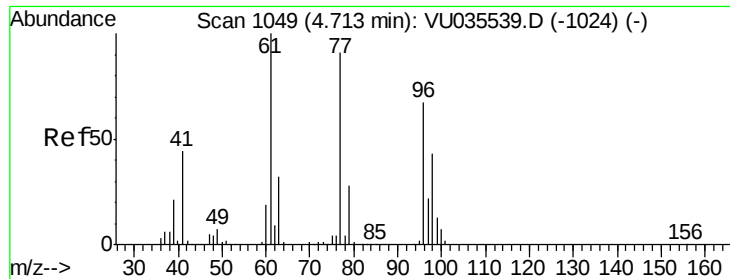
10/30/2019 10:39:40 AM



#20  
Methylcyclohexane  
Concen: 1.021 ug/l  
RT: 6.80 min Scan# 1697  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 82.9  | 61.2  | 91.8  |
| 98      | 44.8  | 36.7  | 55.1  |





#21  
 2,2-Dichloropropane  
 Concen: 1.130 ug/l  
 RT: 4.71 min Scan# 1049  
 Delta R.T. -0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

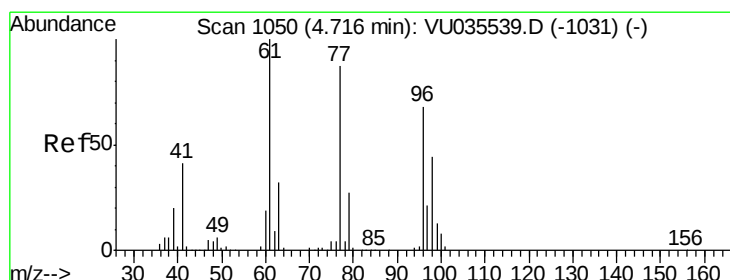
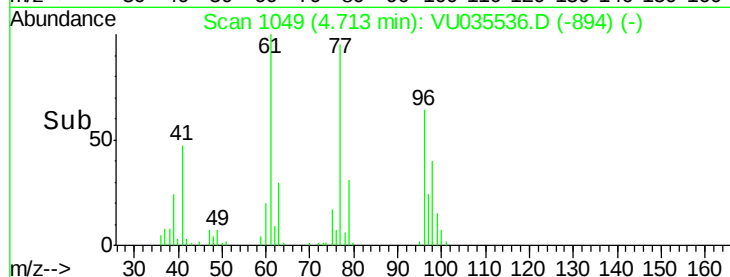
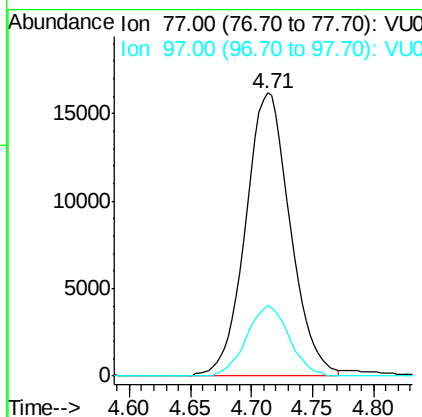
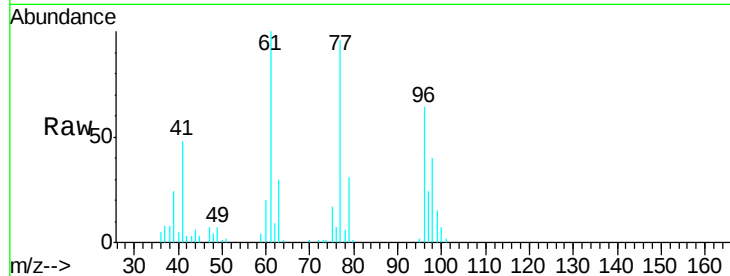
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 77 Resp: 41042  
 Ion Ratio Lower Upper  
 77 100  
 97 23.8 18.8 28.2

Manual Integrations  
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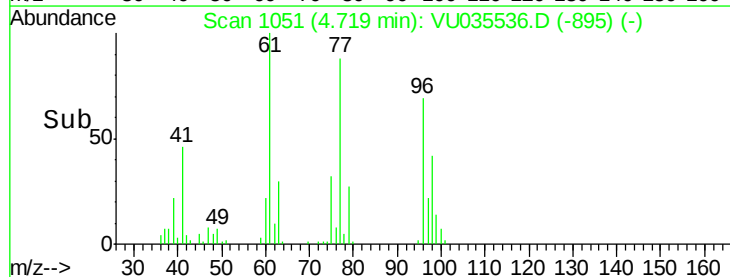
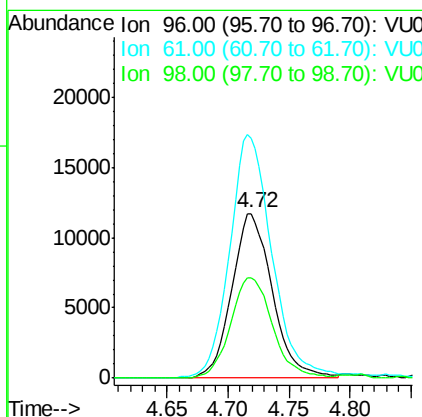
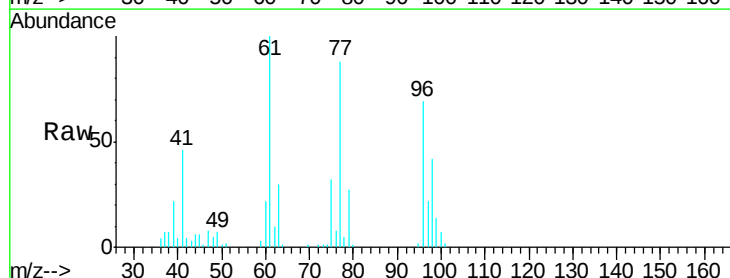
MMDadoda

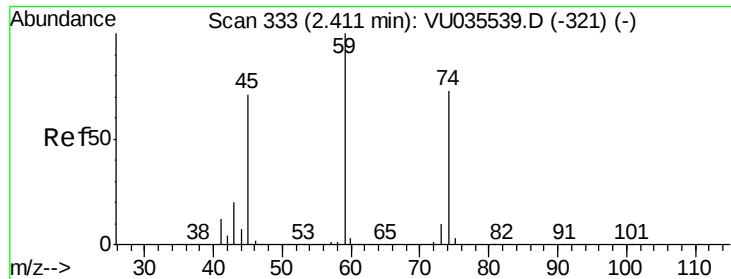
10/30/2019 10:39:40 AM



#22  
 cis-1,2-Dichloroethene  
 Concen: 1.076 ug/l  
 RT: 4.72 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

Tgt Ion: 96 Resp: 26998  
 Ion Ratio Lower Upper  
 96 100  
 61 154.6 0.0 370.5  
 98 63.0 31.8 95.4





#23  
Diethyl Ether  
Concen: 1.232 ug/l  
RT: 2.41 min Scan# 334  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

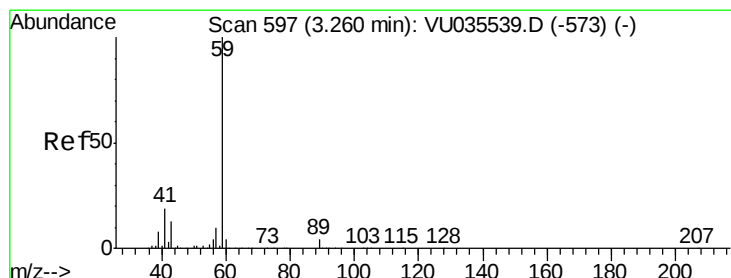
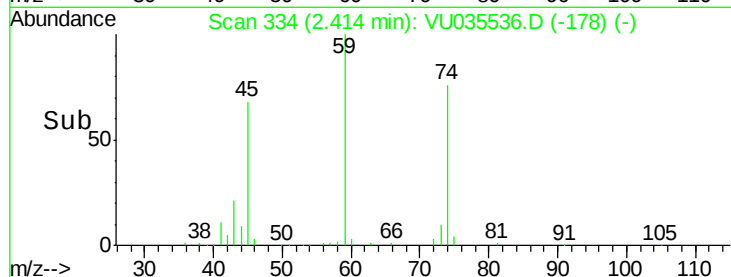
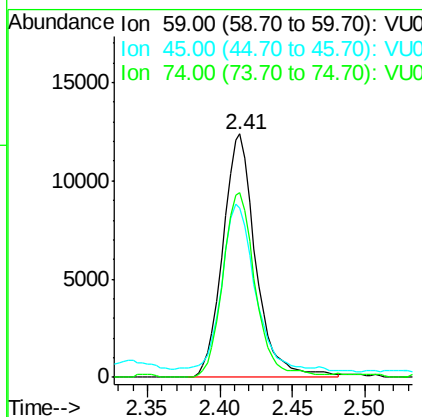
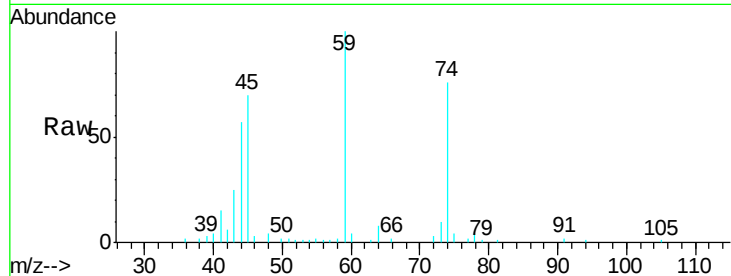
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 67.1  | 56.9  | 85.3  |
| 74      | 75.3  | 59.5  | 89.3  |

Manual Integrations  
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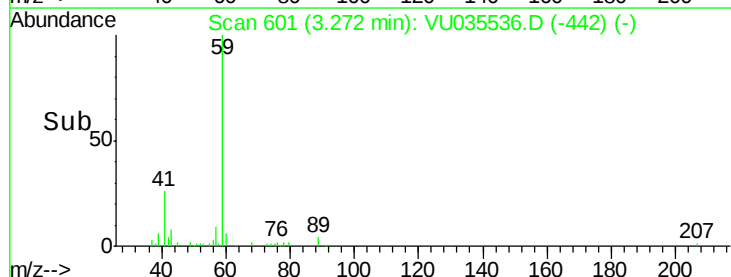
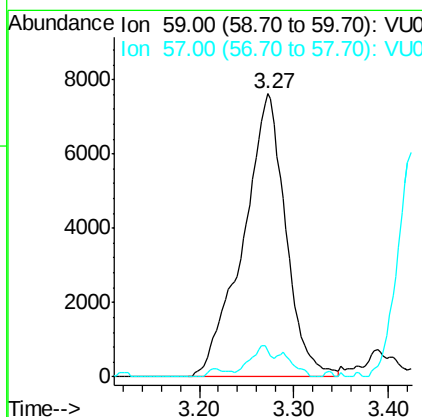
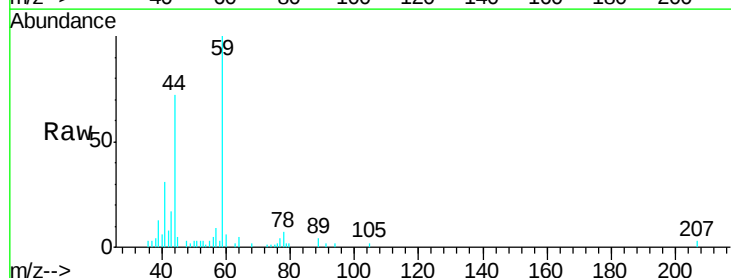
MMDadoda

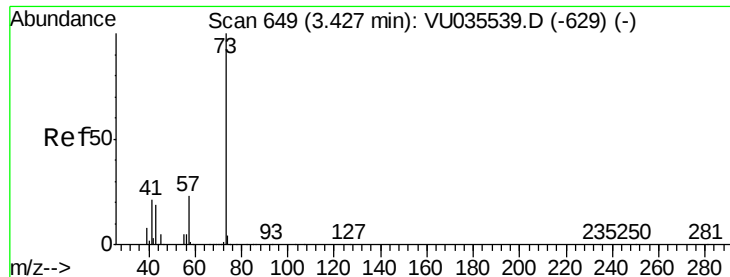
10/30/2019 10:39:40 AM



#24  
tert-Butyl Alcohol  
Concen: 11.005 ug/l  
RT: 3.27 min Scan# 601  
Delta R.T. 0.01 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 4.2   | 7.4   | 11.0# |





#25  
Methyl tert-Butyl Ether  
Concen: 1.232 ug/l  
RT: 3.43 min Scan# 649  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

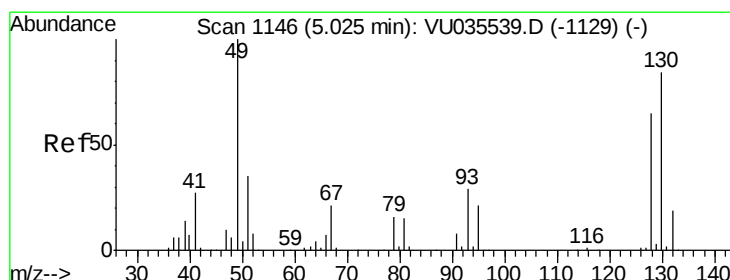
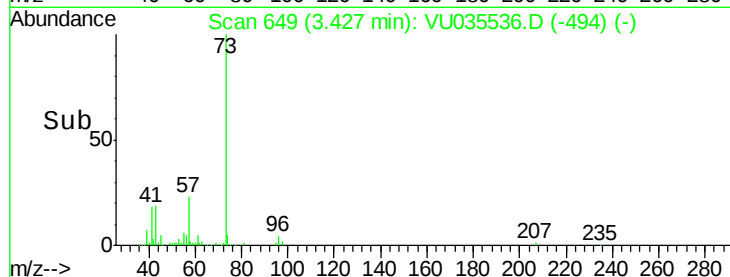
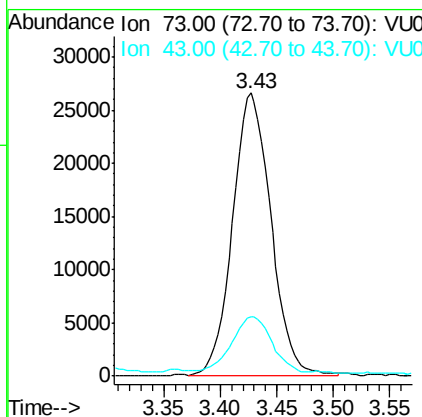
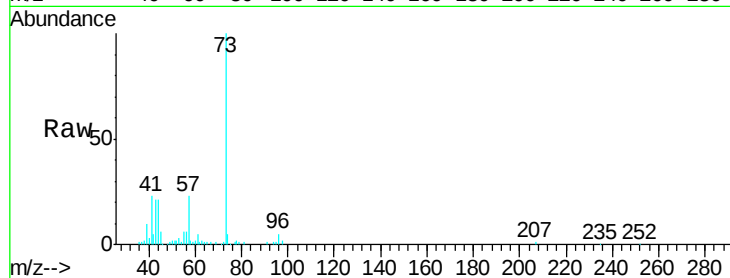
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Tgt Ion: 73 Resp: 62298  
Ion Ratio Lower Upper  
73 100  
43 19.9 15.4 23.2

Manual Integrations  
APPROVED

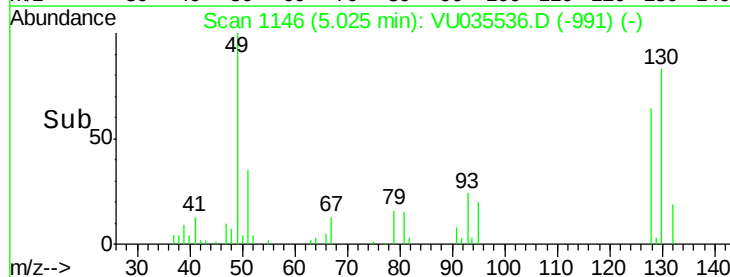
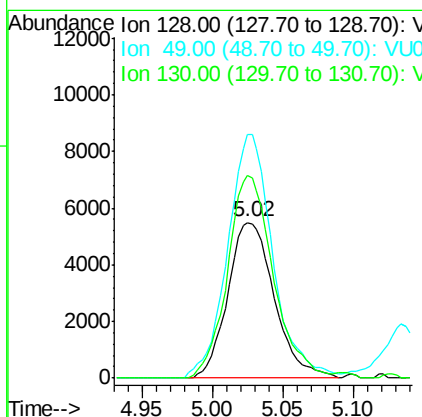
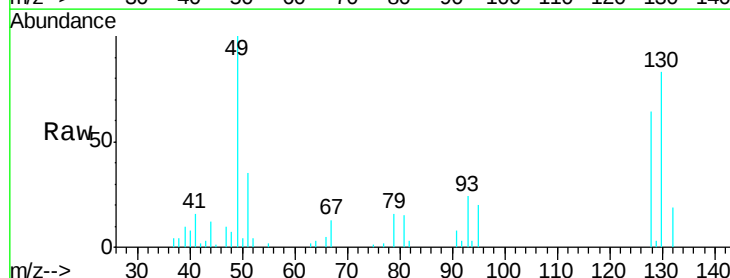
MMDadoda

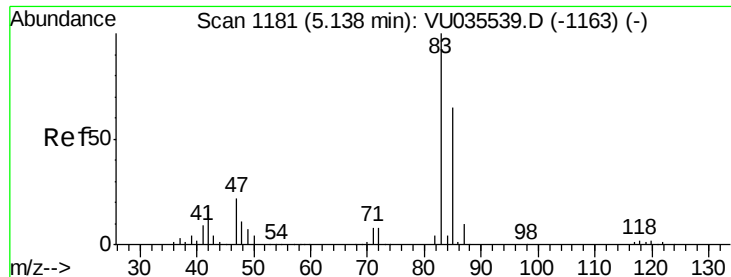
10/30/2019 10:39:40 AM



#26  
Bromochloromethane  
Concen: 1.190 ug/l  
RT: 5.02 min Scan# 1146  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

Tgt Ion: 128 Resp: 12675  
Ion Ratio Lower Upper  
128 100  
49 151.6 0.0 309.0  
130 127.9 101.8 152.8





#27  
Chloroform  
Concen: 1.158 ug/l  
RT: 5.14 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

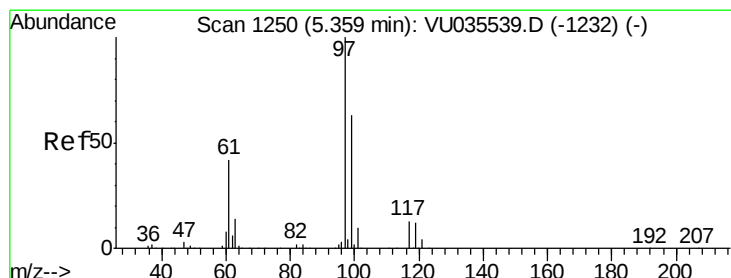
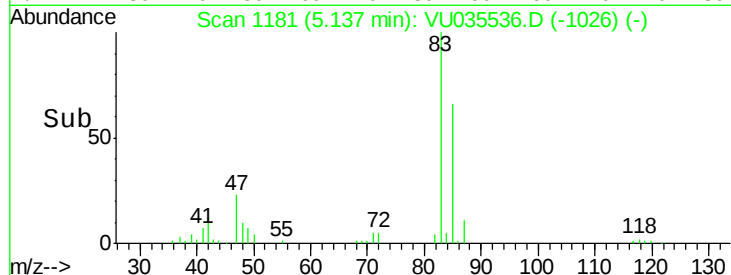
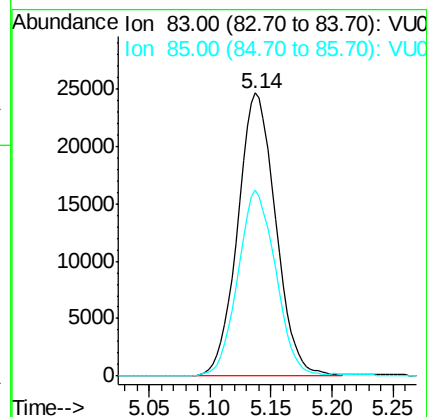
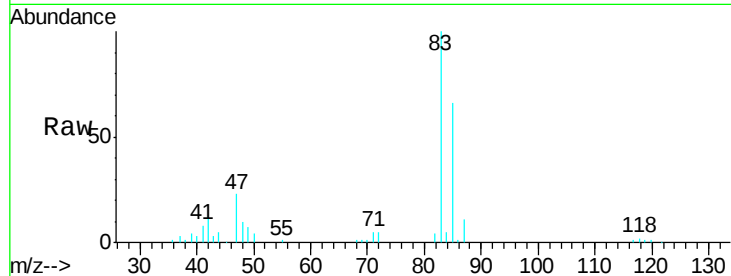
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 83      | 100   | 53258 |       |       |
| 85      | 65.9  | 0.0   | 130.6 |       |

Manual Integrations  
APPROVED

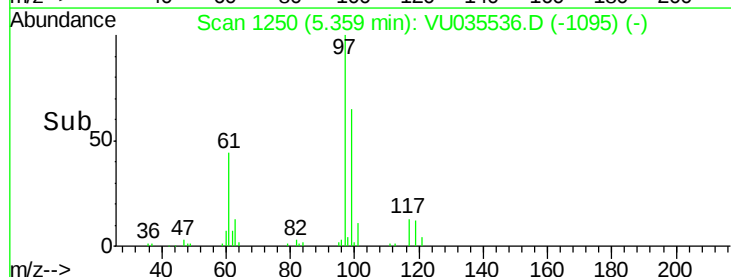
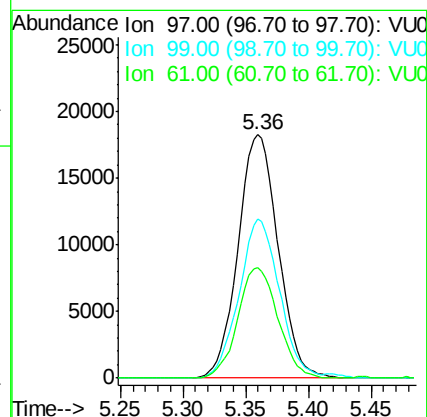
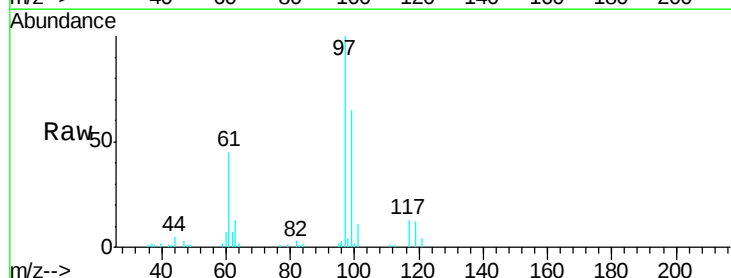
MMDadoda

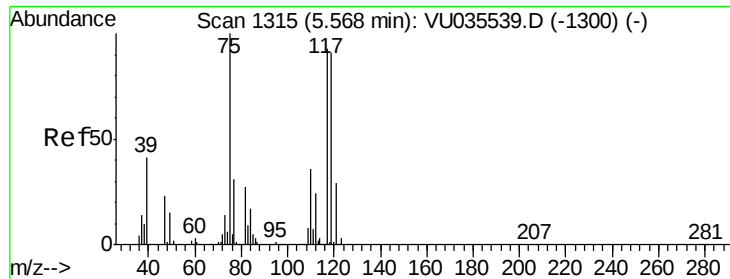
10/30/2019 10:39:40 AM



#28  
1,1,1-Trichloroethane  
Concen: 1.126 ug/l  
RT: 5.36 min Scan# 1250  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 97      | 100   | 40520 |       |       |
| 99      | 65.7  | 32.6  | 97.7  |       |
| 61      | 45.4  | 21.8  | 65.4  |       |





#29  
1,1-Dichloropropene  
Concen: 1.052 ug/l  
RT: 5.57 min Scan# 1315  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

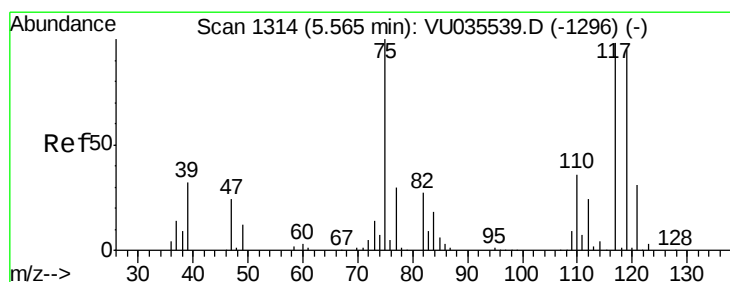
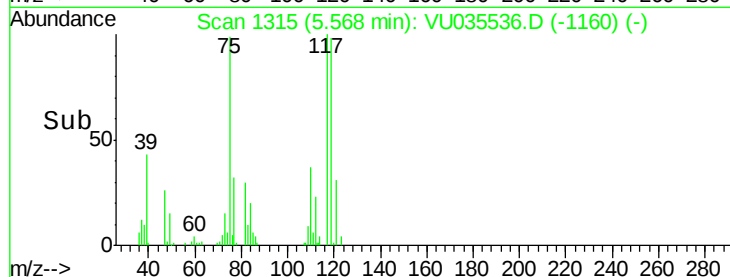
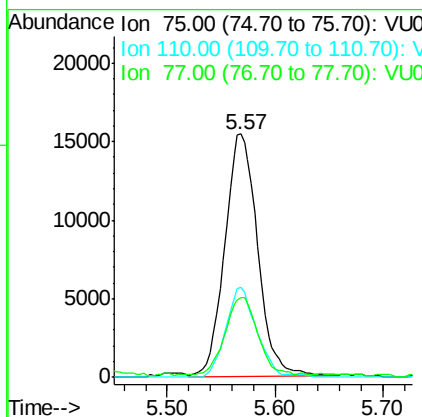
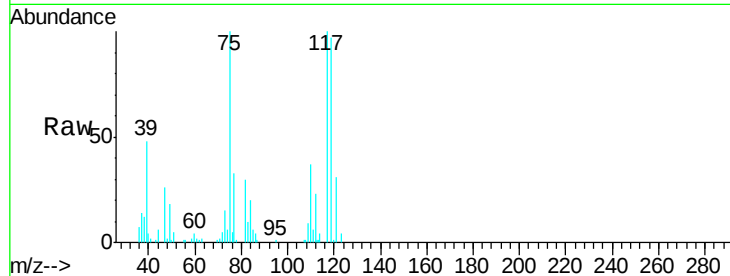
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.3  | 18.3  | 54.8  |
| 77      | 31.1  | 24.6  | 37.0  |

Manual Integrations  
APPROVED

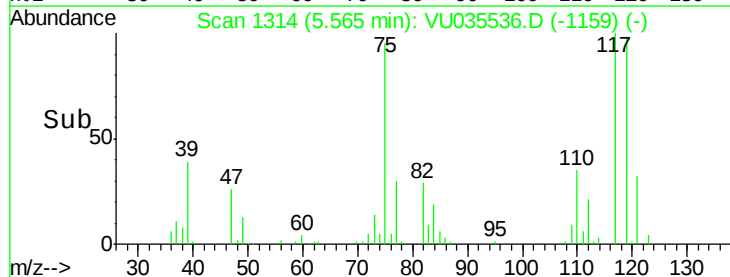
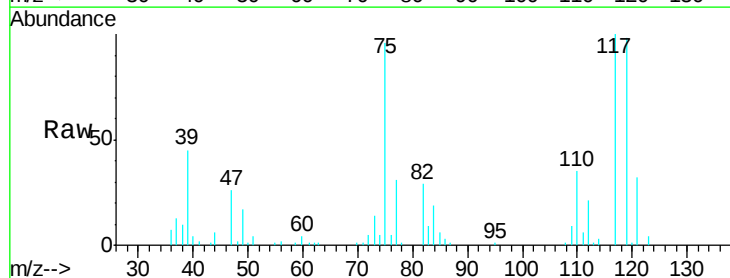
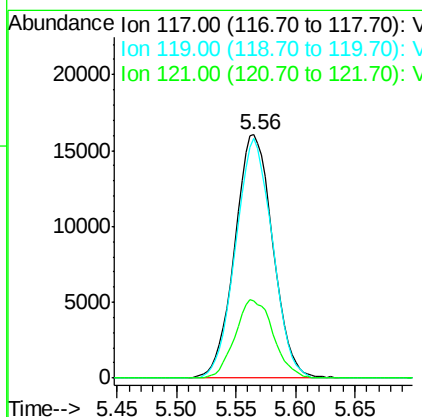
MMDadoda

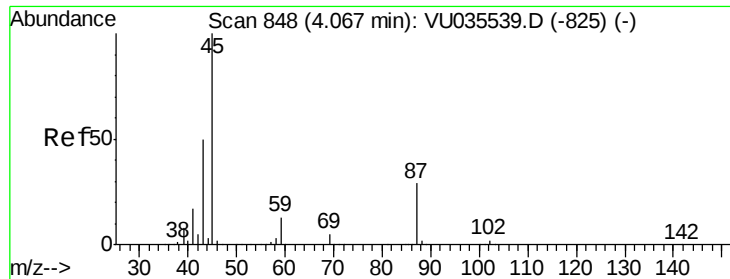
10/30/2019 10:39:40 AM



#30  
Carbon Tetrachloride  
Concen: 1.105 ug/l  
RT: 5.56 min Scan# 1314  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 98.3  | 77.3  | 115.9 |
| 121     | 31.7  | 25.2  | 37.8  |





#31

Isopropyl Ether

Concen: 1.021 ug/l

RT: 4.06 min Scan# 847

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 45 Resp: 64436

Ion Ratio Lower Upper

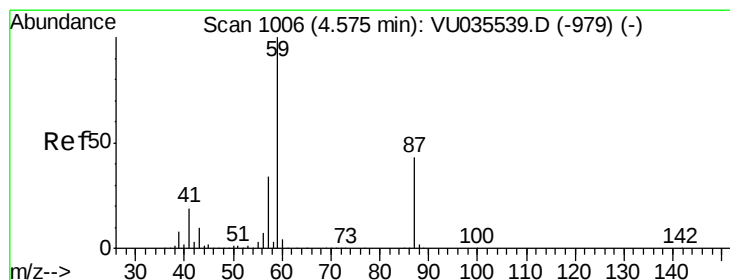
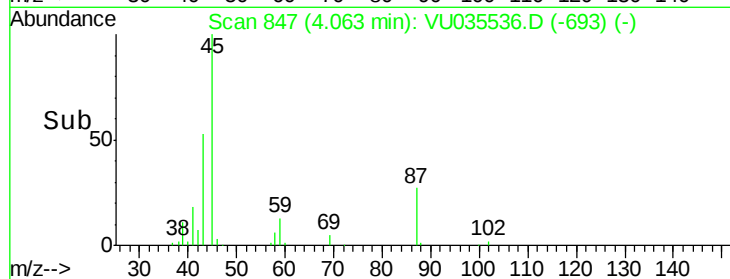
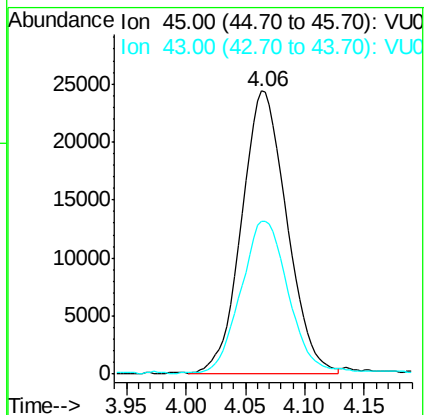
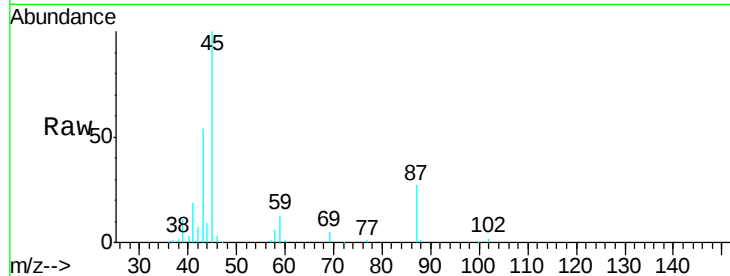
45 100

43 57.4 25.3 75.8

Manual Integrations  
APPROVED

MMDadoda

10/30/2019 10:39:40 AM



#32

Ethyl-t-butyl ether

Concen: 1.063 ug/l

RT: 4.57 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VU035536.D

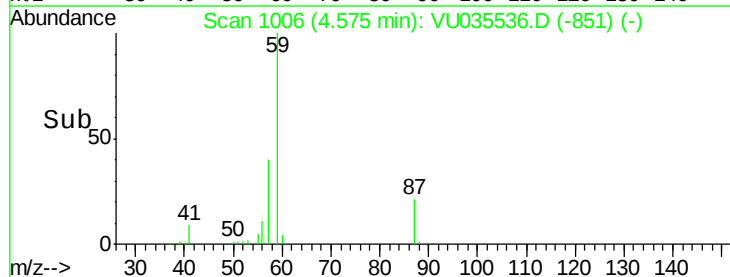
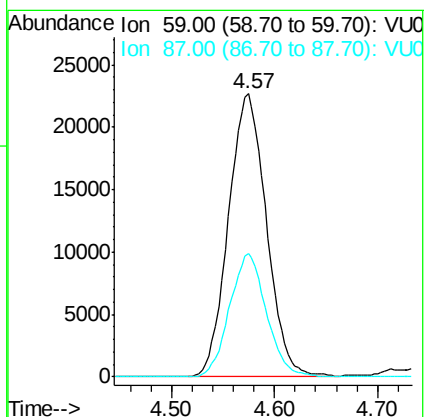
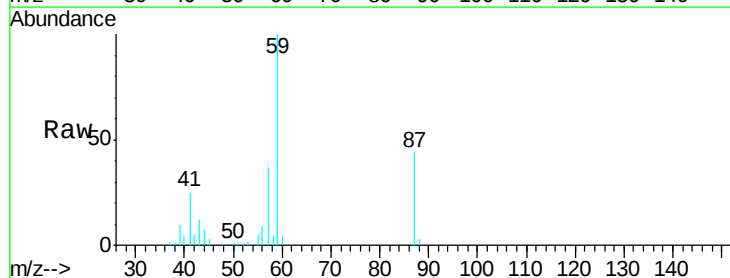
Acq: 29 Oct 2019 12:01

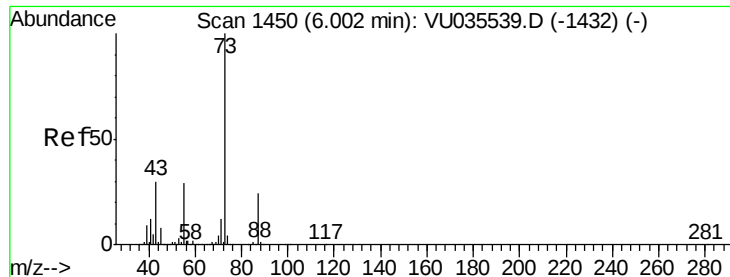
Tgt Ion: 59 Resp: 58183

Ion Ratio Lower Upper

59 100

87 42.1 33.9 50.9





#33

Tert-Amyl methyl ether  
 Concen: 1.076 ug/l  
 RT: 6.01 min Scan# 1451  
 Delta R.T. 0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

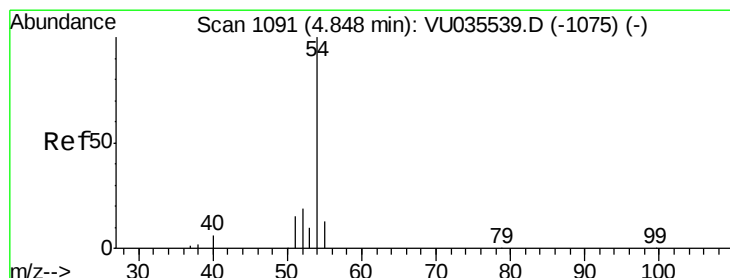
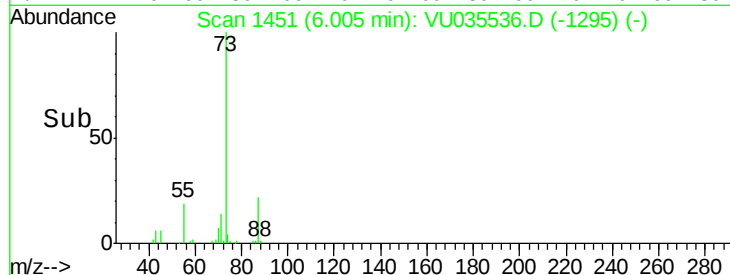
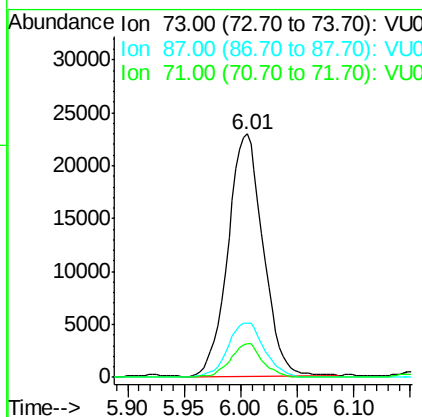
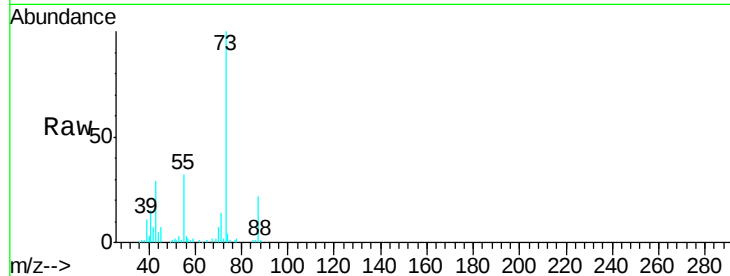
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 49548 |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 87       | 23.4  | 19.5  | 29.3  |
| 71       | 12.7  | 9.4   | 14.2  |

Manual Integrations  
 APPROVED

MMDadoda

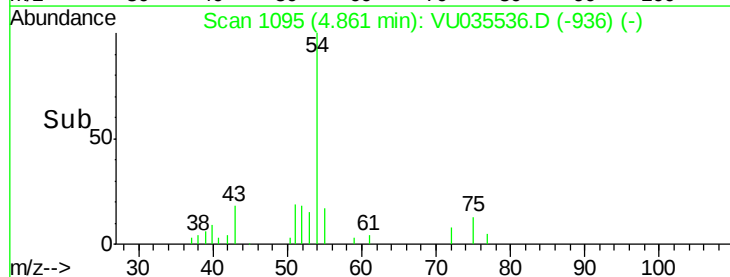
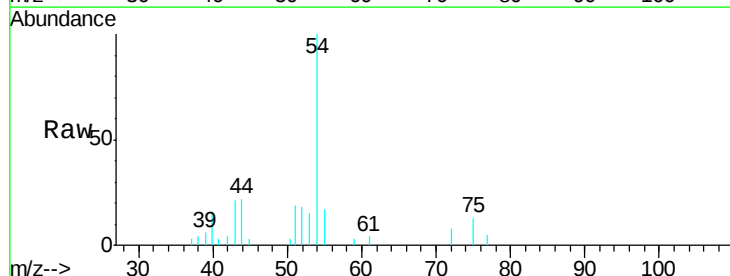
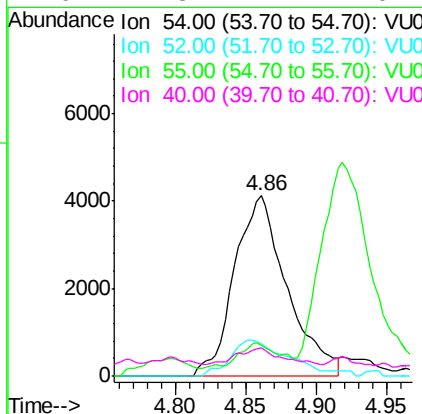
10/30/2019 10:39:40 AM

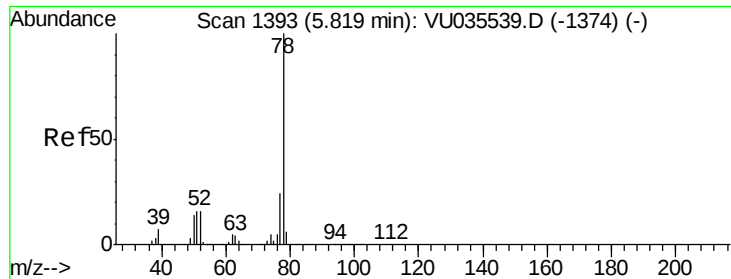


#34

Propionitrile  
 Concen: 7.065 ug/l  
 RT: 4.86 min Scan# 1095  
 Delta R.T. 0.01 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 54    | Resp: | 10745 |
| Ion      | Ratio | Lower | Upper |
| 54       | 100   |       |       |
| 52       | 21.0  | 14.6  | 21.8  |
| 55       | 10.3  | 11.7  | 17.5# |
| 40       | 7.3   | 4.2   | 6.2#  |





#35

Benzene

Concen: 1.092 ug/l

RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 101607

Ion Ratio Lower Upper

78 100

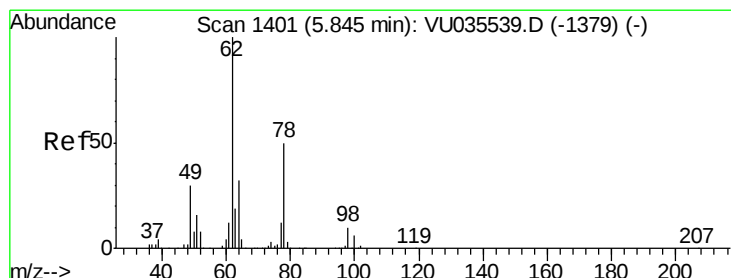
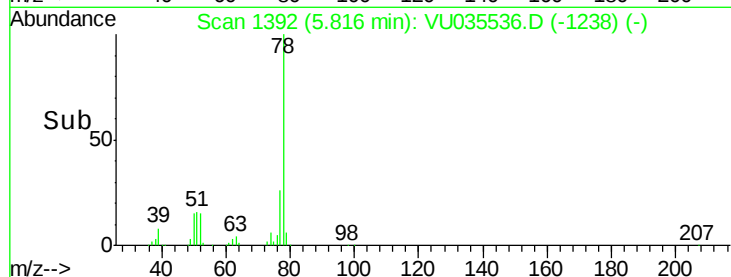
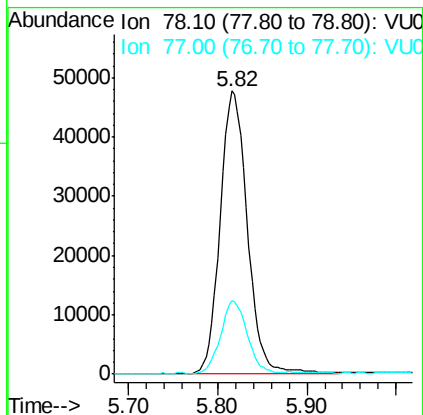
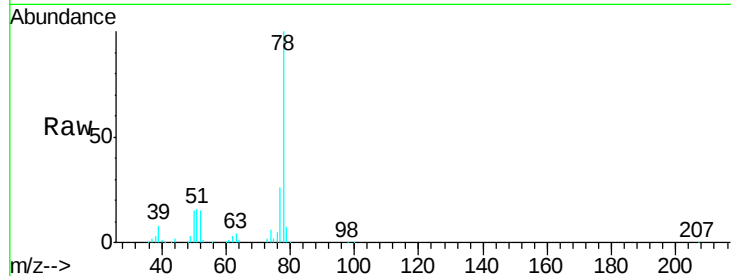
77 25.6 19.0 28.4

Manual Integrations

APPROVED

MMDadoda

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#36

1,2-Dichloroethane

Concen: 1.221 ug/l

RT: 5.84 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VU035536.D

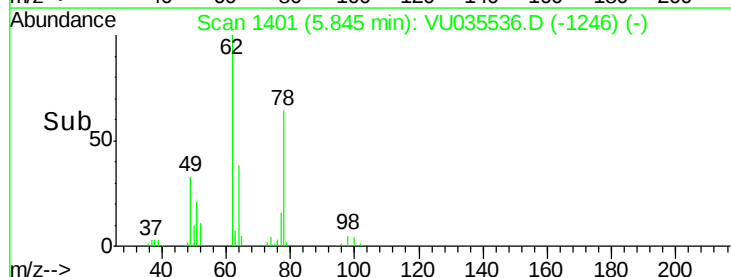
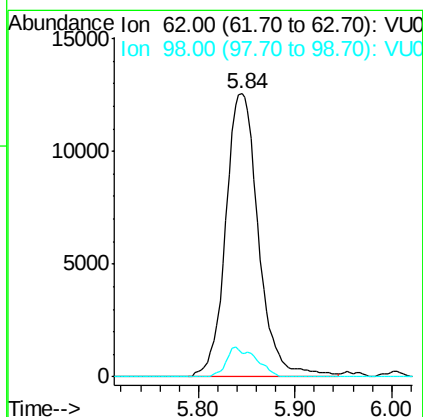
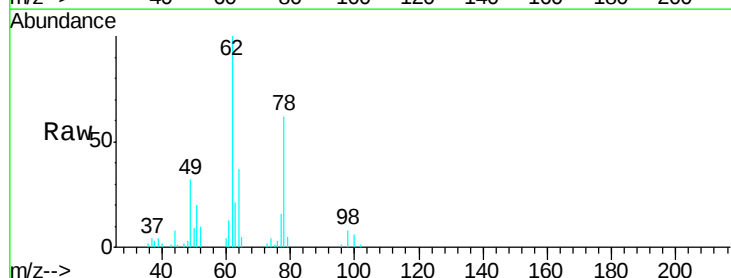
Acq: 29 Oct 2019 12:01

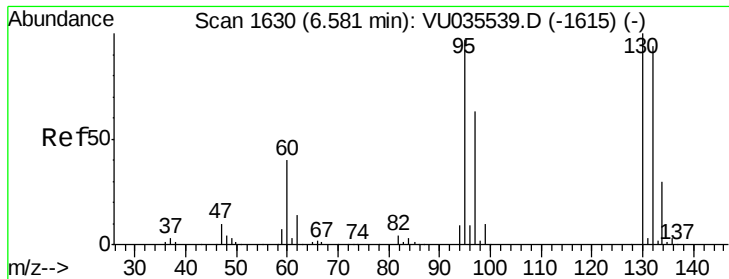
Tgt Ion: 62 Resp: 29582

Ion Ratio Lower Upper

62 100

98 9.4 7.5 11.3





#37

Trichloroethene

Concen: 1.090 ug/l

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 28342

Ion Ratio Lower Upper

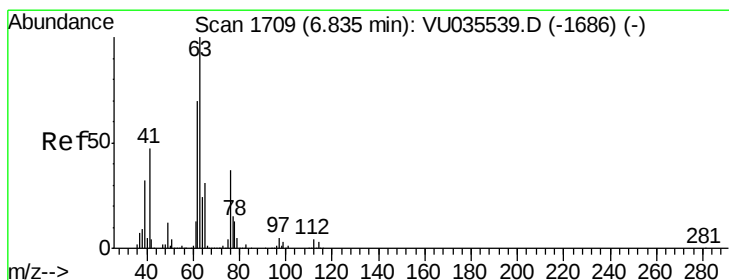
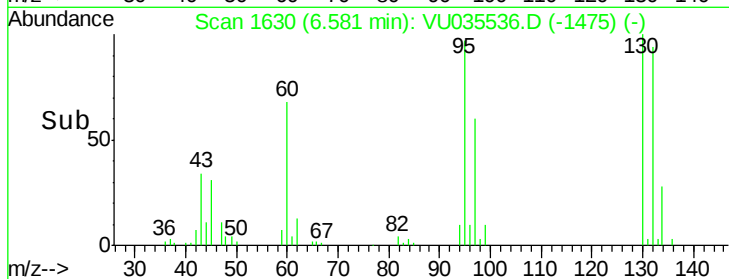
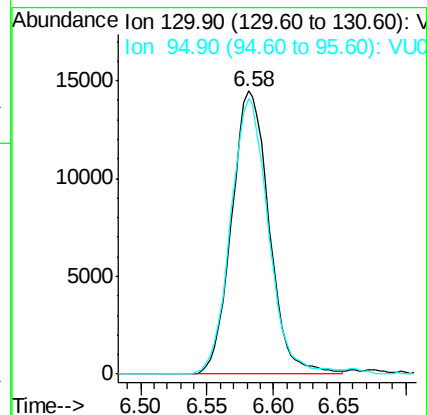
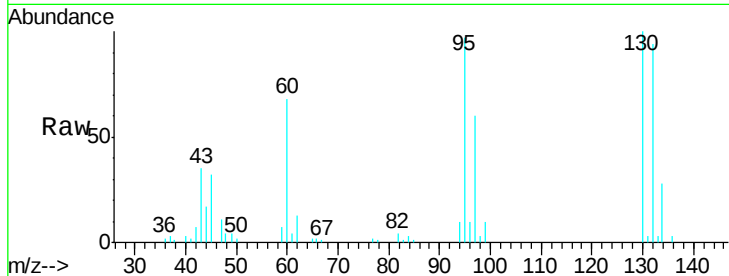
130 100

95 97.2 77.5 116.3

Manual Integrations  
APPROVED

MMDadoda

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#38

1,2-Dichloropropane

Concen: 1.105 ug/l

RT: 6.84 min Scan# 1709

Delta R.T. -0.00 min

Lab File: VU035536.D

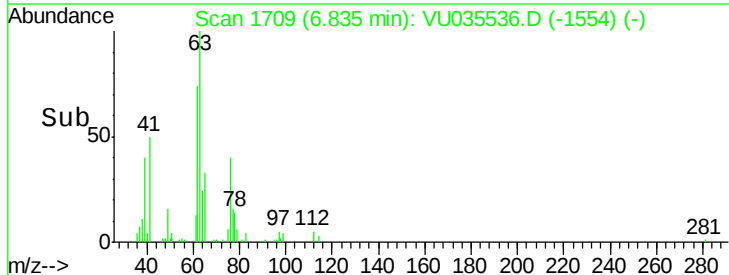
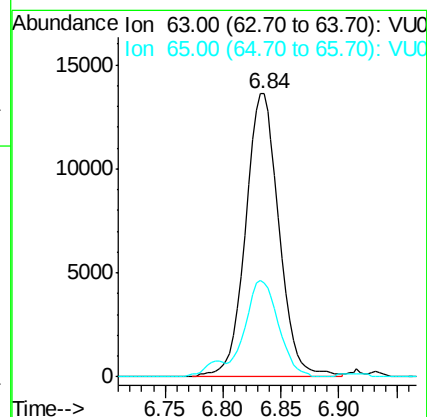
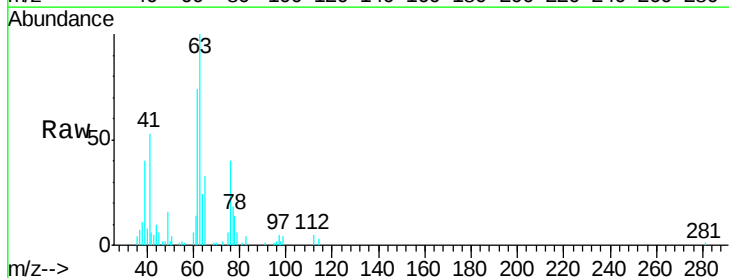
Acq: 29 Oct 2019 12:01

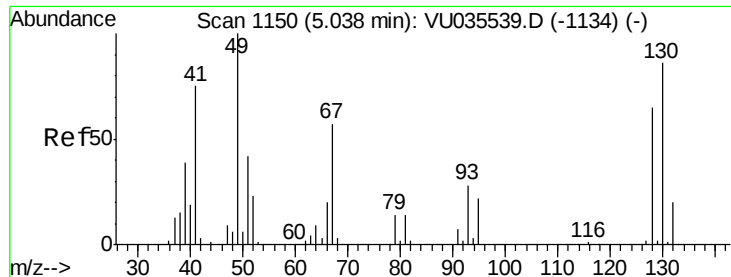
Tgt Ion: 63 Resp: 27367

Ion Ratio Lower Upper

63 100

65 32.0 25.0 37.6





#39  
Methacrylonitrile  
Concen: 1.113 ug/l  
RT: 5.04 min Scan# 1152  
Delta R.T. 0.01 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

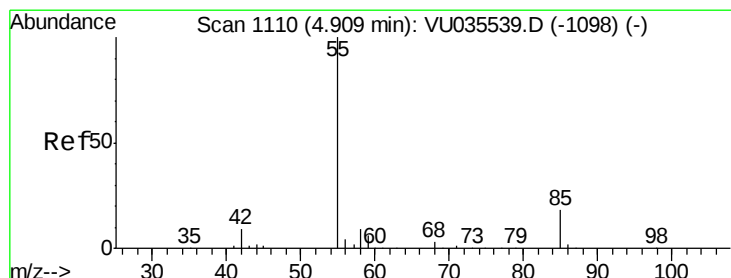
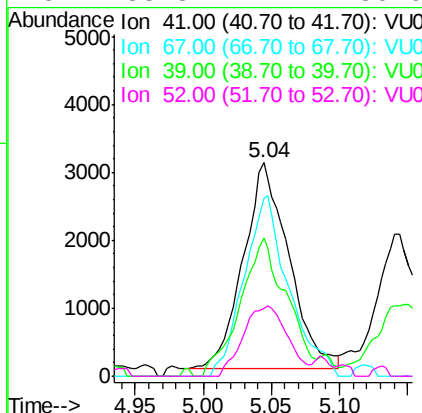
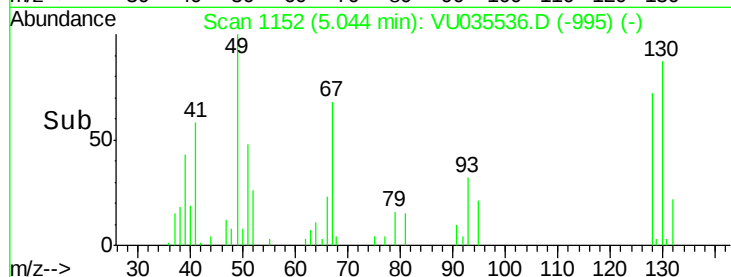
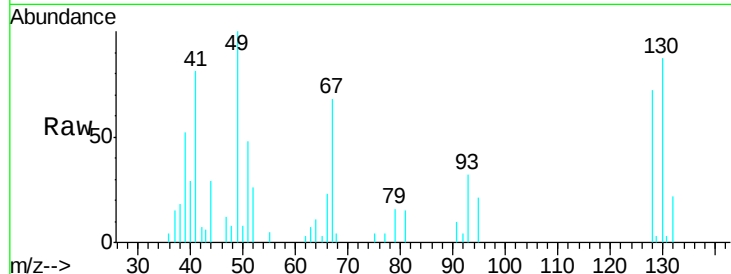
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 67      | 86.1  | 61.5  | 92.3  |
| 39      | 68.8  | 41.3  | 61.9# |
| 52      | 33.3  | 24.4  | 36.6  |

Manual Integrations  
APPROVED

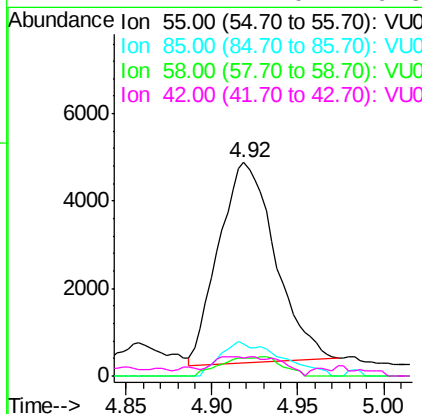
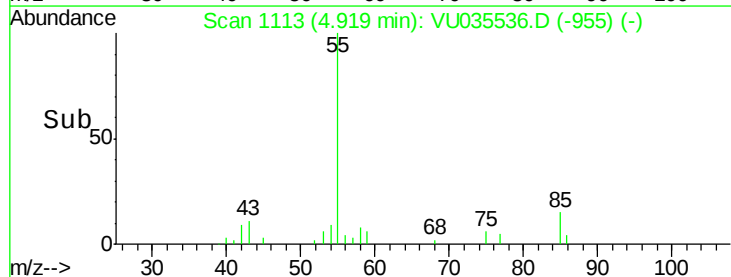
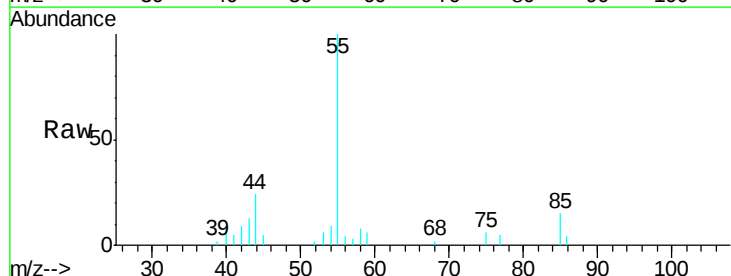
MMDadoda

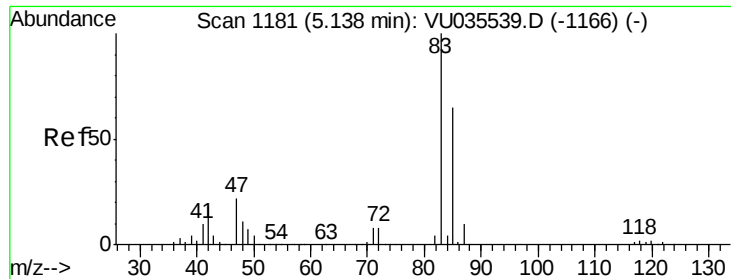
10/30/2019 10:39:40 AM



#40  
Methyl acrylate  
Concen: 1.095 ug/l  
RT: 4.92 min Scan# 1113  
Delta R.T. 0.01 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 55      | 100   |       |       |
| 85      | 18.2  | 13.5  | 20.3  |
| 58      | 10.2  | 6.6   | 10.0# |
| 42      | 11.4  | 7.0   | 10.6# |





#41  
Tetrahydrofuran  
Concen: 2.402 ug/l  
RT: 5.14 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

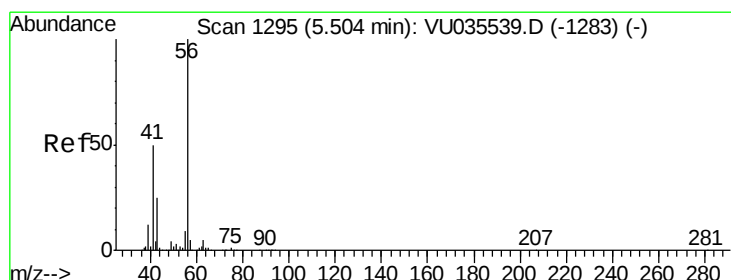
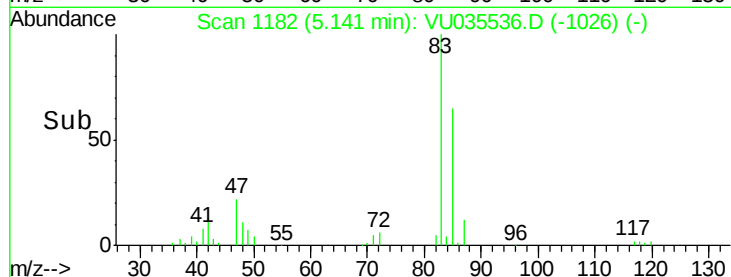
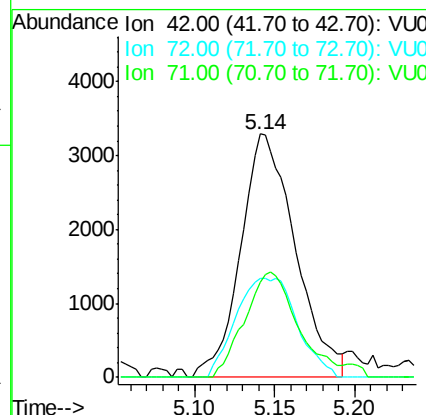
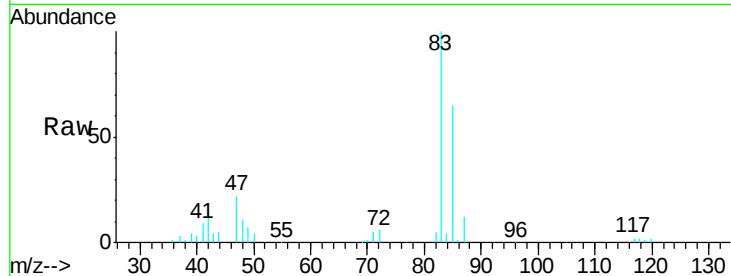
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 72      | 45.6  | 89.9  | 134.9# |
| 71      | 42.3  | 3.7   | 5.5#   |

Manual Integrations  
APPROVED

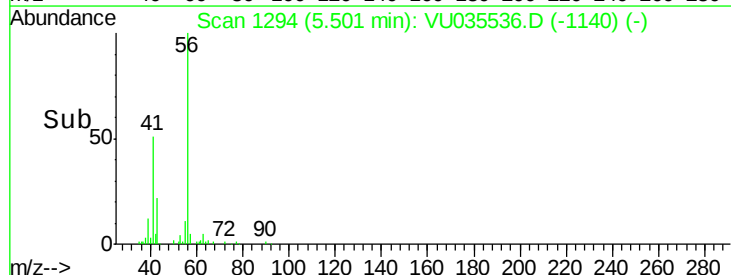
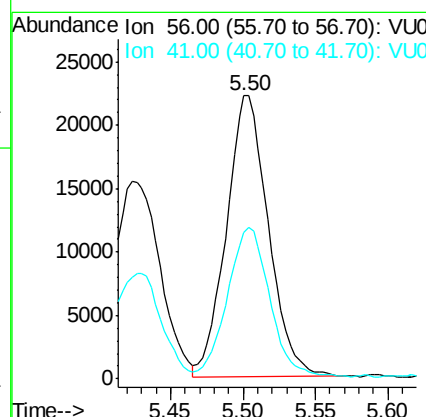
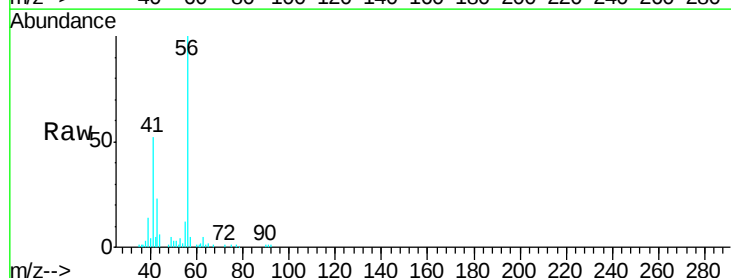
MMDadoda

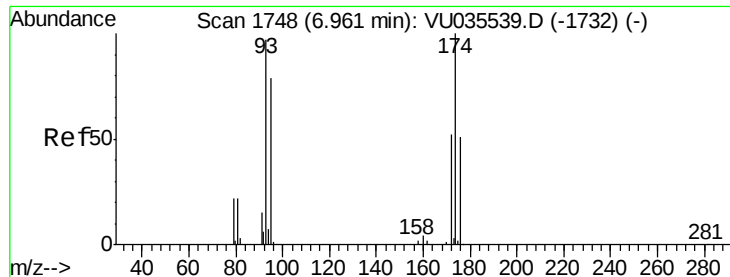
10/30/2019 10:39:40 AM



#42  
1-Chlorobutane  
Concen: 1.060 ug/l  
RT: 5.50 min Scan# 1294  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 53.8  | 25.5  | 76.5  |





#43

Dibromomethane

Concen: 1.212 ug/l

RT: 6.96 min Scan# 1749

Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 93 Resp: 14372

Ion Ratio Lower Upper

93 100

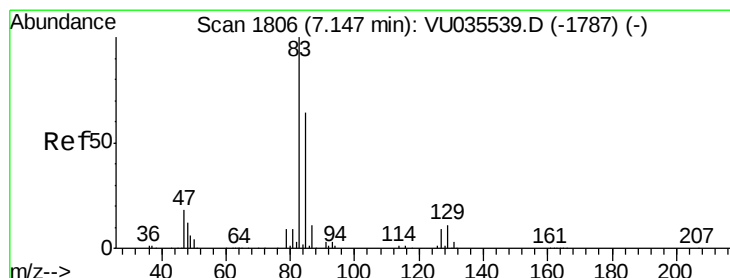
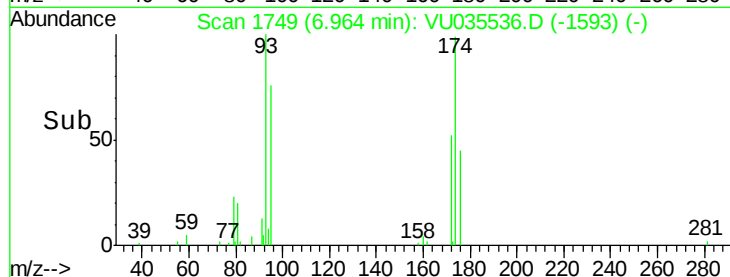
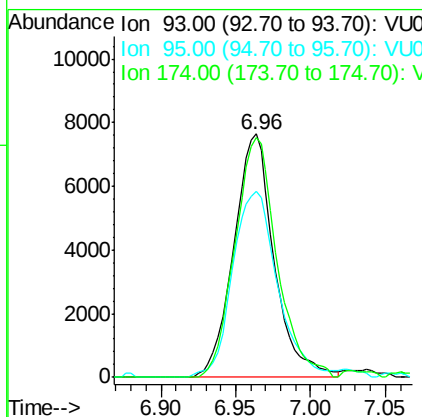
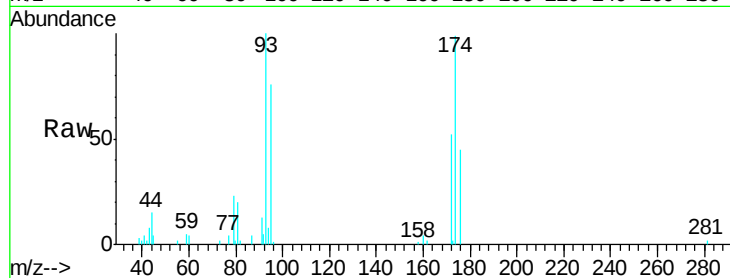
95 85.3 65.1 97.7

174 102.5 84.2 126.4

Manual Integrations  
APPROVED

MMDadoda

10/30/2019 10:39:40 AM



#44

Bromodichloromethane

Concen: 1.216 ug/l

RT: 7.15 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

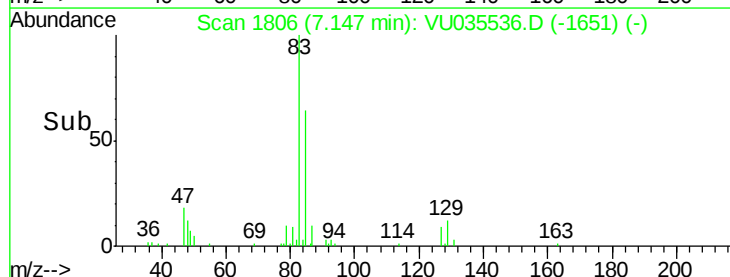
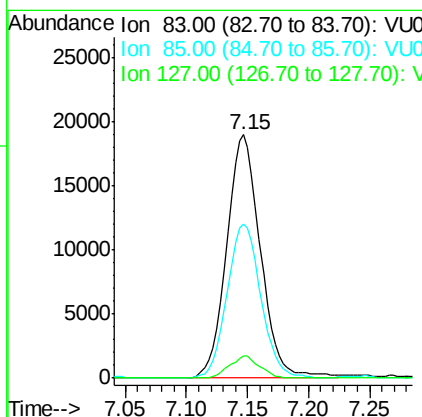
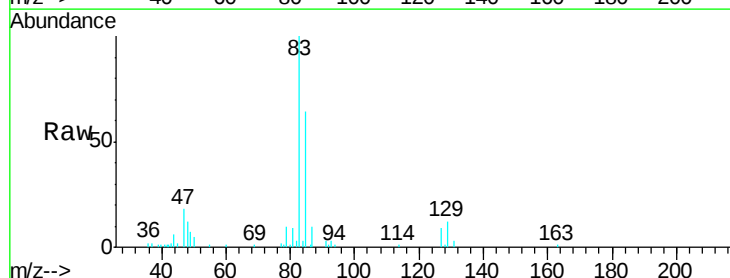
Tgt Ion: 83 Resp: 36630

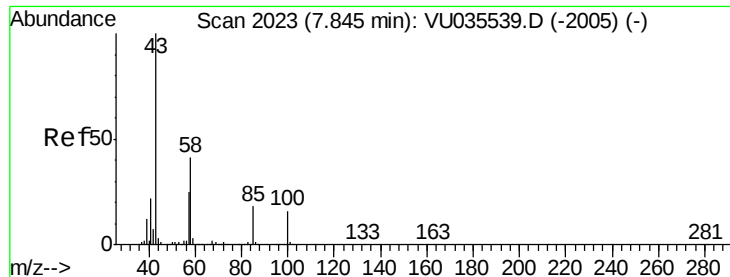
Ion Ratio Lower Upper

83 100

85 63.5 51.6 77.4

127 9.3 7.0 10.4





#45  
4-Methyl-2-Pentanone  
Concen: 5.729 ug/l  
RT: 7.85 min Scan# 2024  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

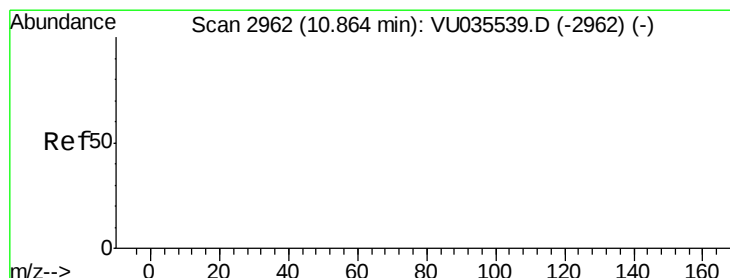
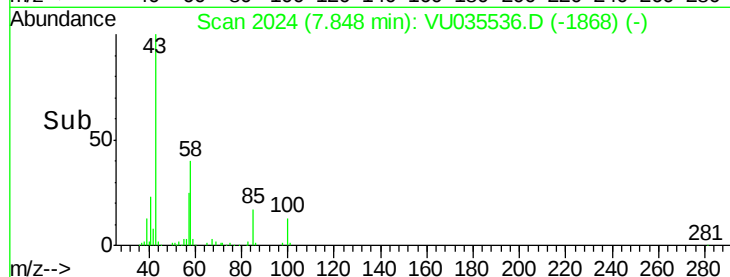
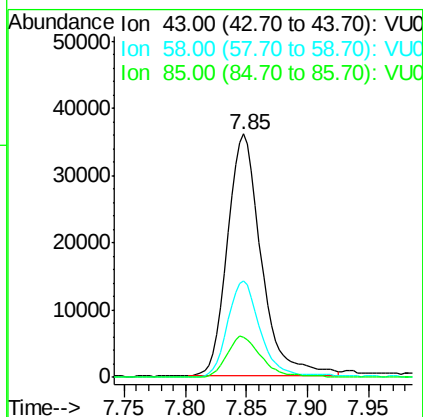
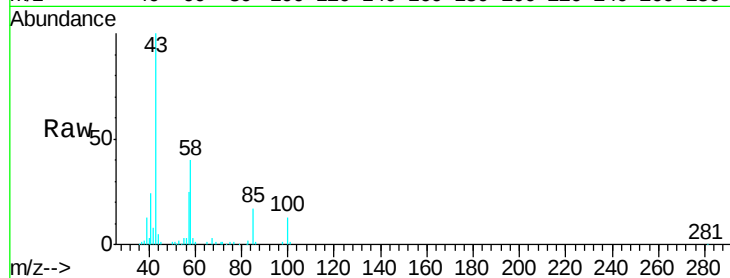
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 39.9  | 20.6  | 61.8  |
| 85      | 17.5  | 14.5  | 21.7  |

Manual Integrations  
APPROVED

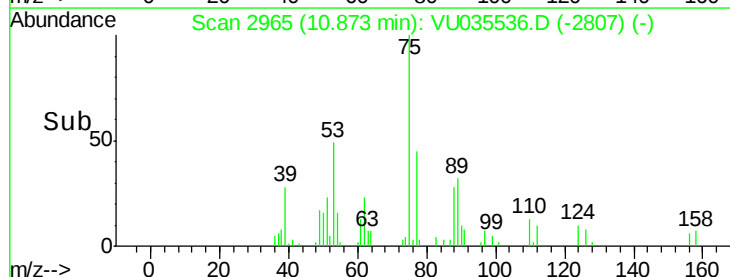
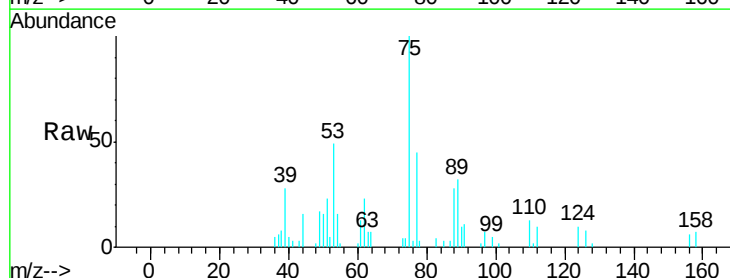
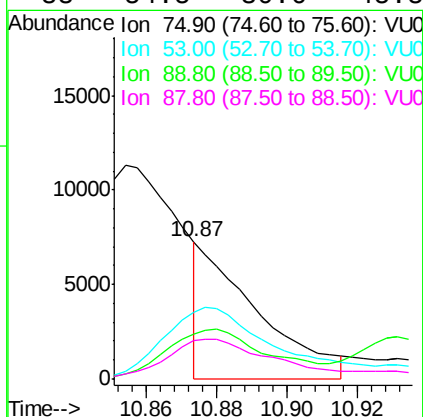
MMDadoda

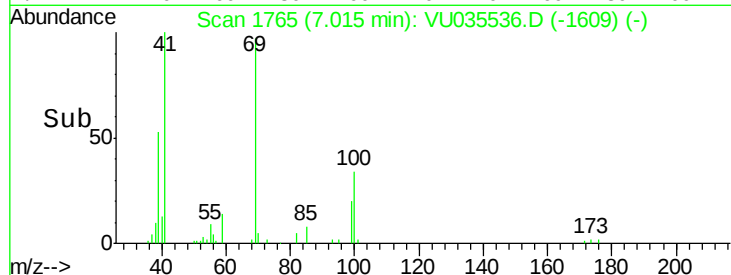
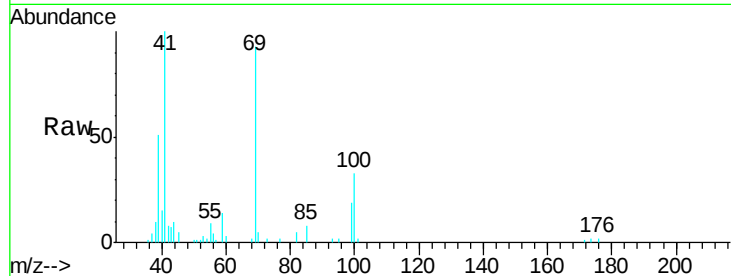
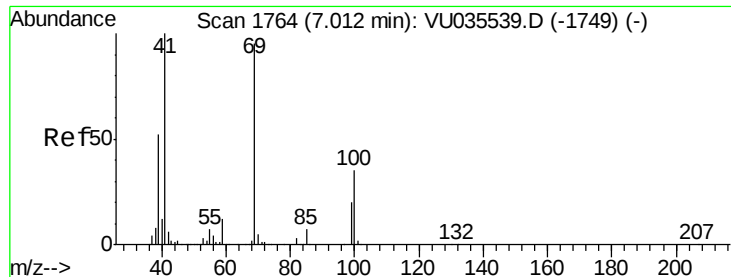
10/30/2019 10:39:40 AM



#46  
t-1,4-Dichloro-2-butene  
Concen: 1.622 ug/l m  
RT: 10.87 min Scan# 2965  
Delta R.T. 0.01 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 102.6 | 54.1  | 81.1# |
| 89      | 66.3  | 38.2  | 57.4# |
| 88      | 54.5  | 30.6  | 45.8# |





#47  
Methyl methacrylate  
Concen: 2.339 ug/l  
RT: 7.02 min Scan# 1765  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

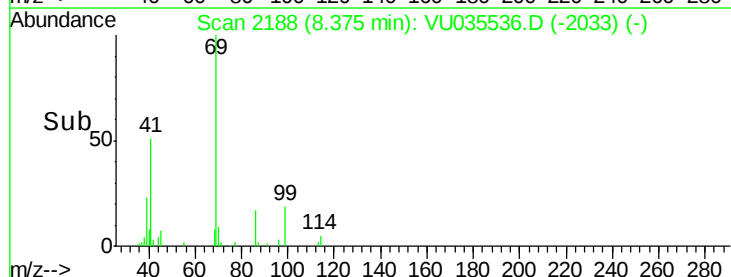
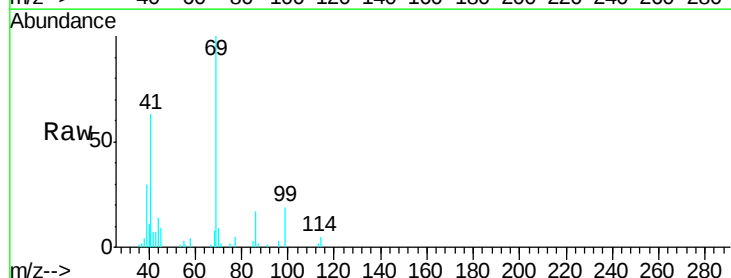
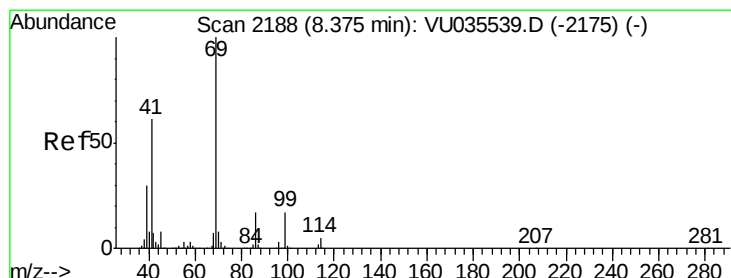
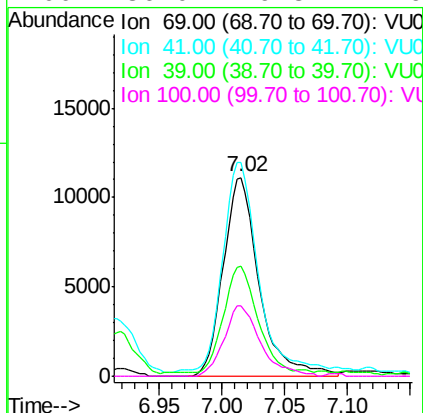
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 103.9 | 0.0   | 216.8 |
| 39      | 50.3  | 45.1  | 67.7  |
| 100     | 36.0  | 29.8  | 44.6  |

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Manual Integrations  
APPROVED

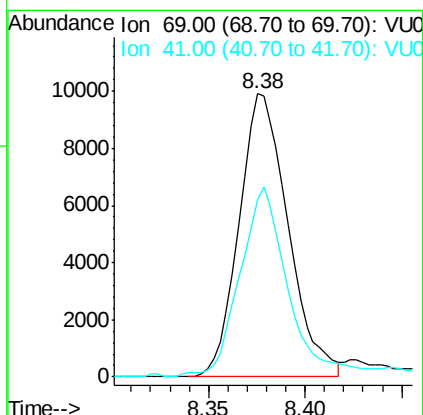
MMDadoda

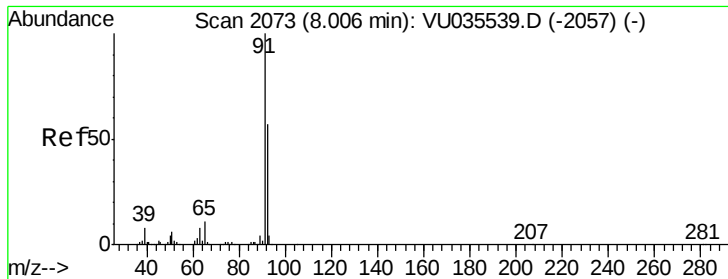
10/30/2019 10:39:40 AM



#48  
Ethyl methacrylate  
Concen: 1.022 ug/l  
RT: 8.38 min Scan# 2188  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 66.0  | 30.4  | 91.2  |





#49

Toluene

Concen: 1.037 ug/l

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 56250

Ion Ratio Lower Upper

92 100

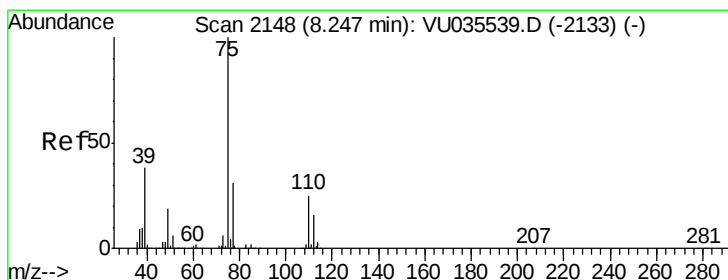
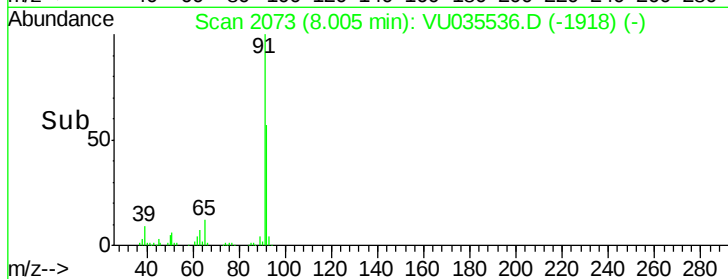
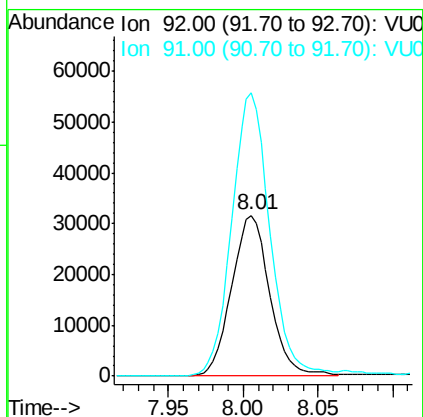
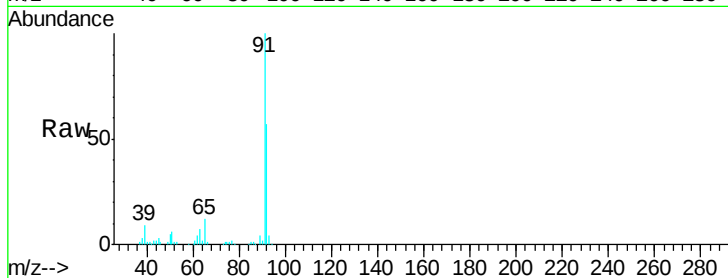
91 175.8 141.4 212.0

Manual Integrations

APPROVED

MMDadoda

10/30/2019 10:39:40 AM



#50

t-1,3-Dichloropropene

Concen: 1.139 ug/l

RT: 8.25 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU035536.D

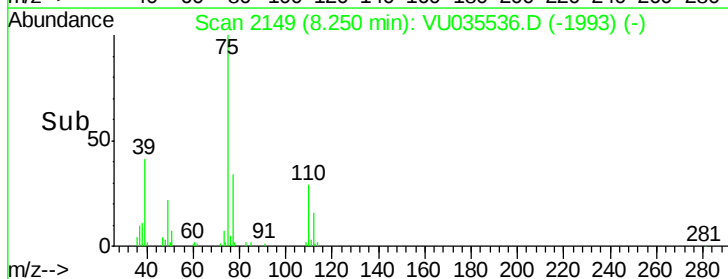
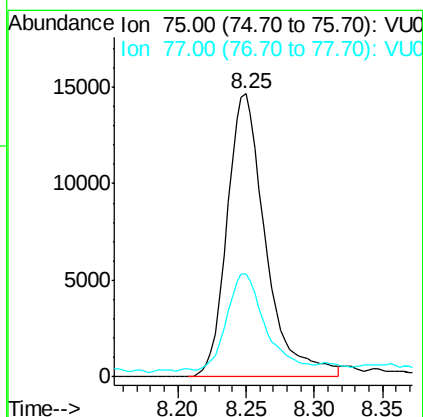
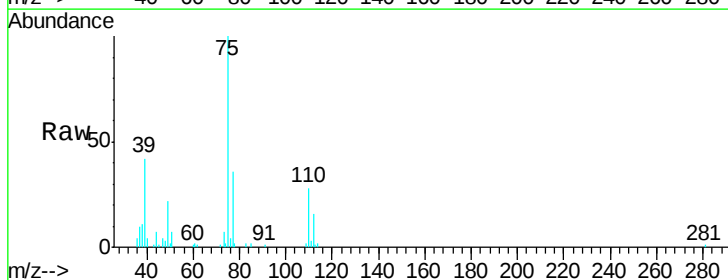
Acq: 29 Oct 2019 12:01

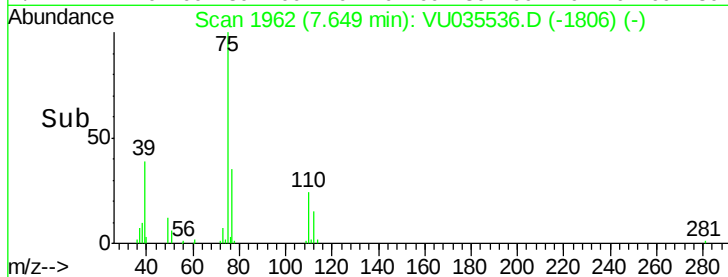
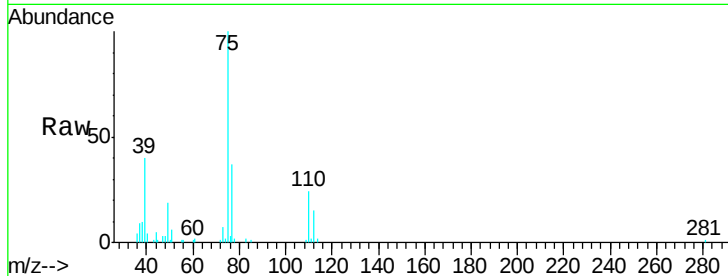
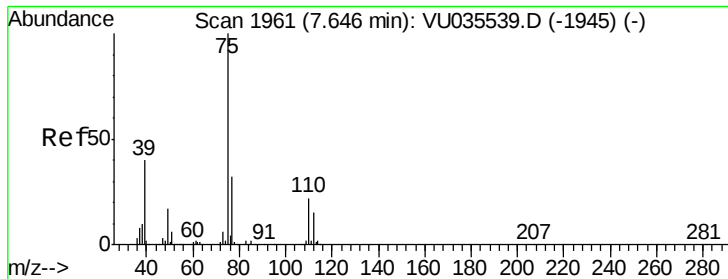
Tgt Ion: 75 Resp: 28823

Ion Ratio Lower Upper

75 100

77 33.5 25.2 37.8





#51

cis-1,3-Dichloropropene  
Concen: 1.143 ug/l  
RT: 7.65 min Scan# 1962  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

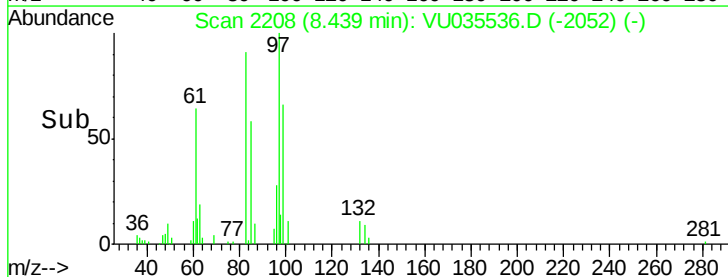
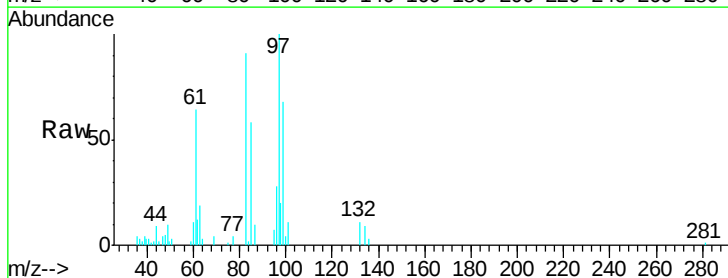
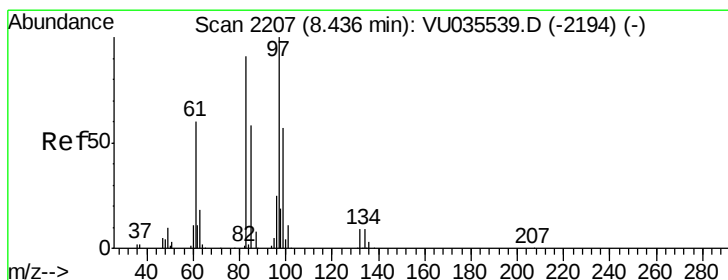
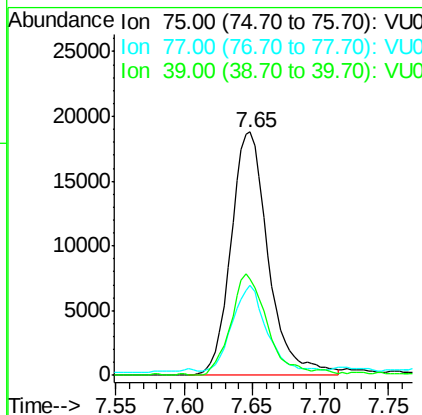
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 35798 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 34.2  | 25.2  | 37.8  |
| 39       | 39.8  | 32.1  | 48.1  |

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Manual Integrations  
APPROVED

MMDadoda

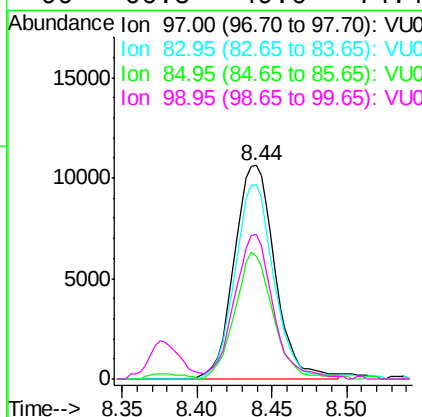
10/30/2019 10:39:40 AM

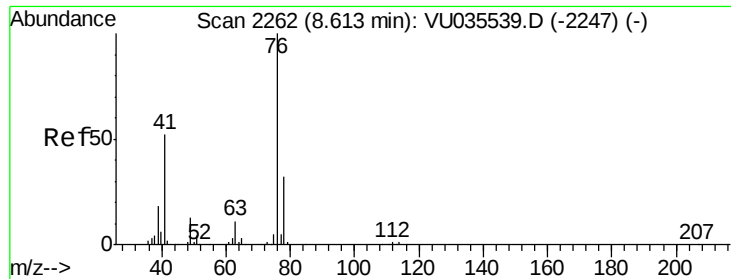


#52

1,1,2-Trichloroethane  
Concen: 1.224 ug/l  
RT: 8.44 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 20122 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 91.1  | 72.6  | 108.8 |
| 85       | 56.6  | 46.4  | 69.6  |
| 99       | 66.5  | 49.6  | 74.4  |





#53  
 1,3-Dichloropropane  
 Concen: 1.194 ug/l  
 RT: 8.61 min Scan# 2262  
 Delta R.T. -0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

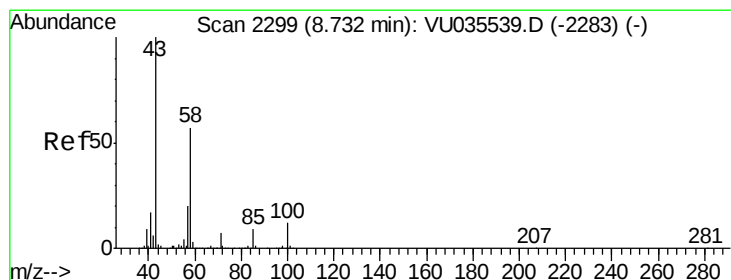
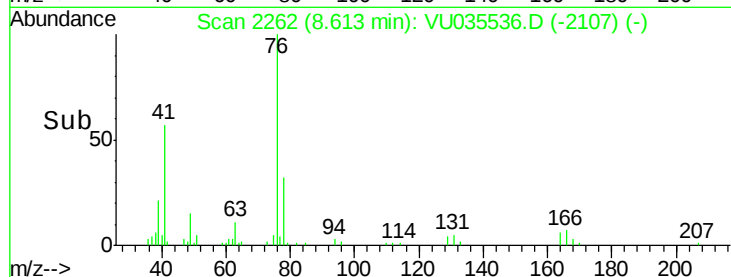
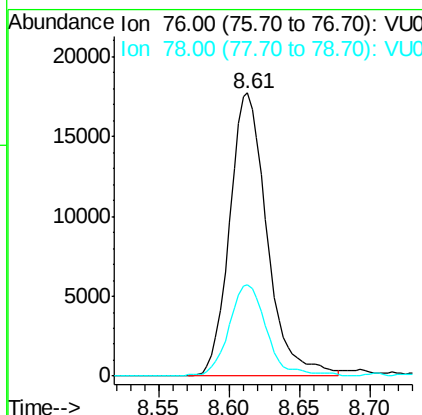
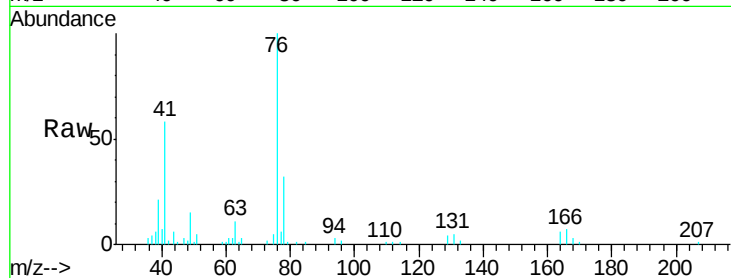
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 76 Resp: 32920  
 Ion Ratio Lower Upper  
 76 100  
 78 32.3 25.6 38.4

Manual Integrations  
 APPROVED

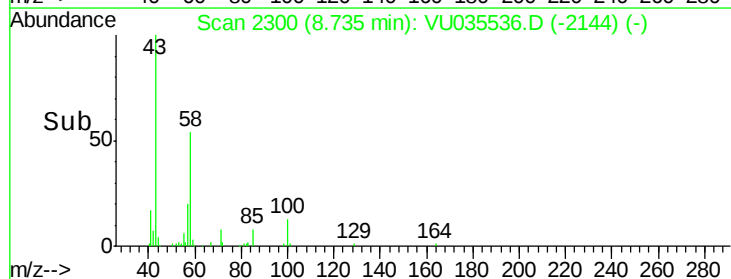
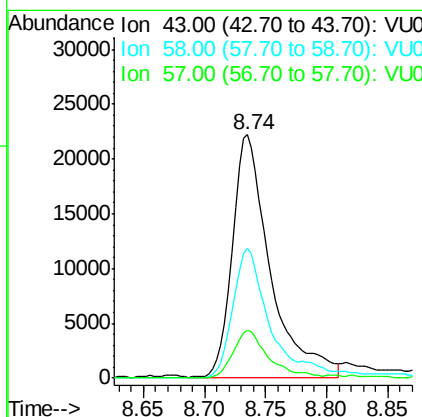
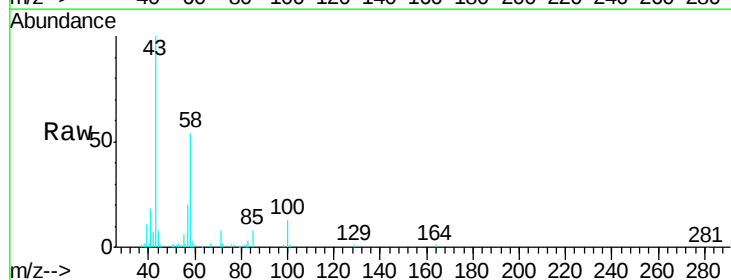
MMDadoda

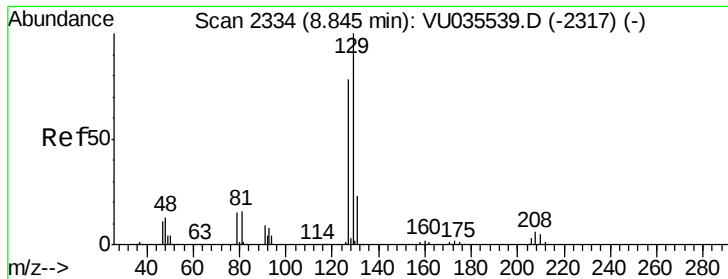
10/30/2019 10:39:40 AM



#54  
 2-Hexanone  
 Concen: 5.916 ug/l  
 RT: 8.74 min Scan# 2300  
 Delta R.T. 0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

Tgt Ion: 43 Resp: 48312  
 Ion Ratio Lower Upper  
 43 100  
 58 51.3 37.2 77.2  
 57 18.3 0.0 39.1





#55

Dibromochloromethane

Concen: 1.191 ug/l

RT: 8.84 min Scan# 2334

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 23806

Ion Ratio Lower Upper

129 100

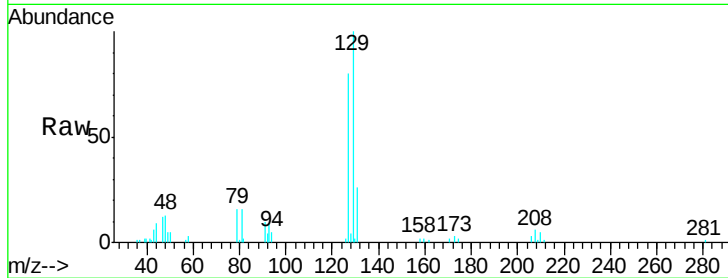
127 78.1 62.3 93.5

Manual Integrations

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10/30/2019 10:39:40 AM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.84

15000

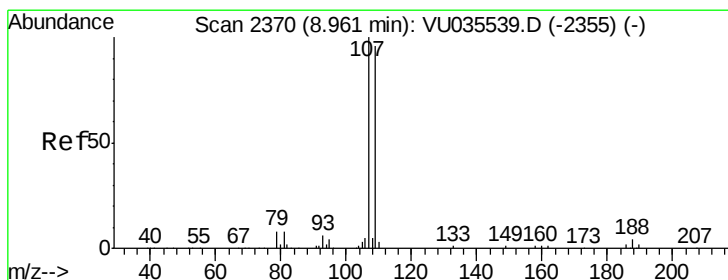
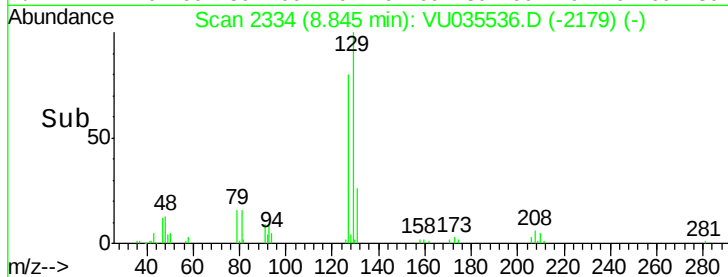
10000

5000

0

8.75 8.80 8.85 8.90 8.95

Time-->



#56

1,2-Dibromoethane

Concen: 1.129 ug/l

RT: 8.96 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VU035536.D

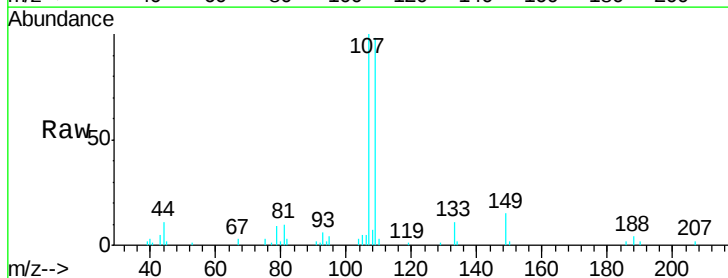
Acq: 29 Oct 2019 12:01

Tgt Ion:107 Resp: 17140

Ion Ratio Lower Upper

107 100

109 100.6 0.0 191.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.96

10000

8000

6000

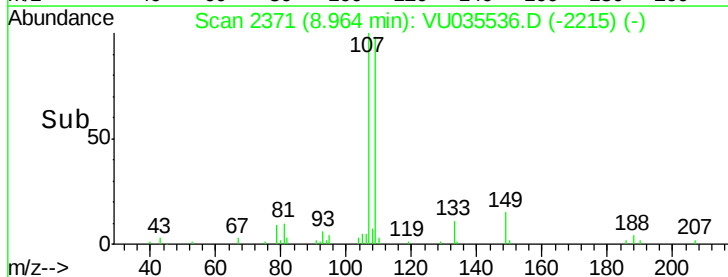
4000

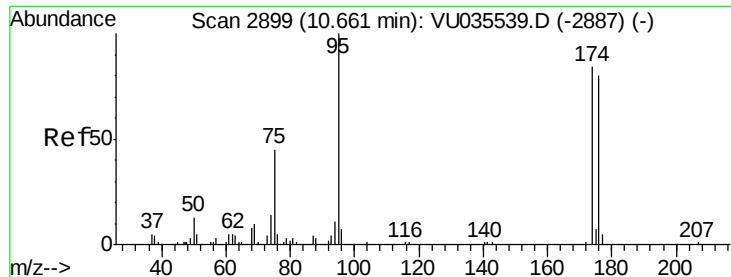
2000

0

8.90 8.95 9.00 9.05

Time-->





#57

4-Bromofluorobenzene

Concen: 0.945 ug/l

RT: 10.66 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 95 Resp: 28383

Ion Ratio Lower Upper

95 100

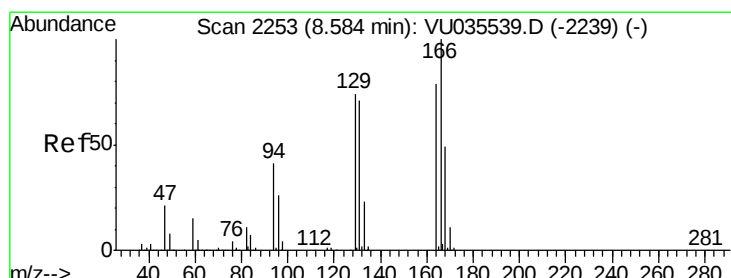
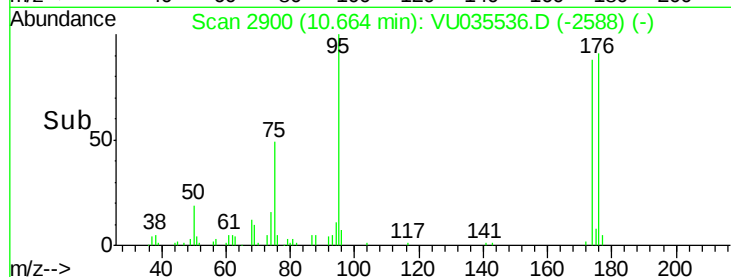
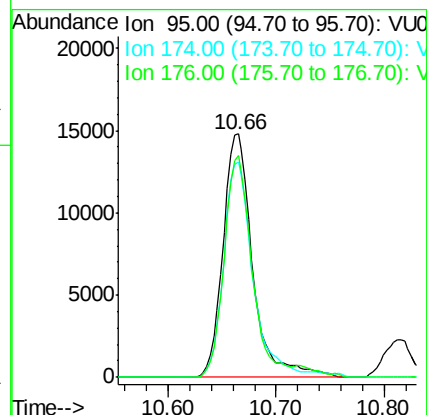
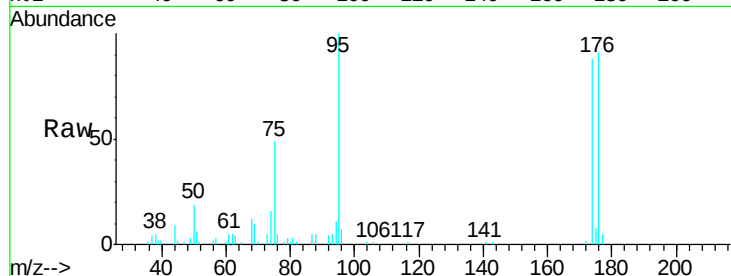
174 88.9 70.2 105.4

176 85.4 67.7 101.5

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10/30/2019 10:39:40 AM



#58

Tetrachloroethene

Concen: 1.082 ug/l

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Tgt Ion: 164 Resp: 26616

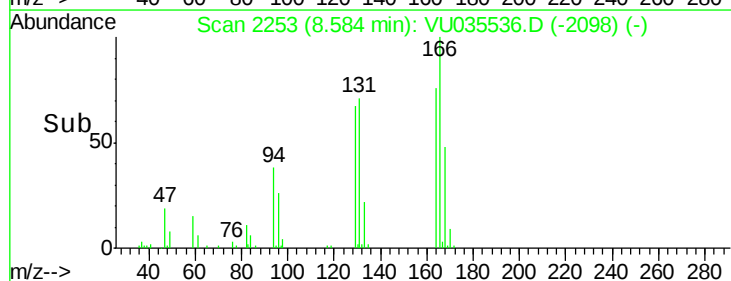
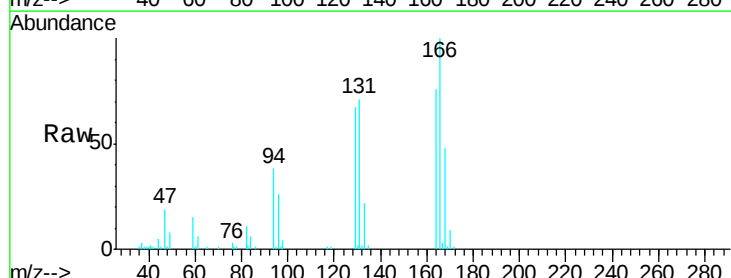
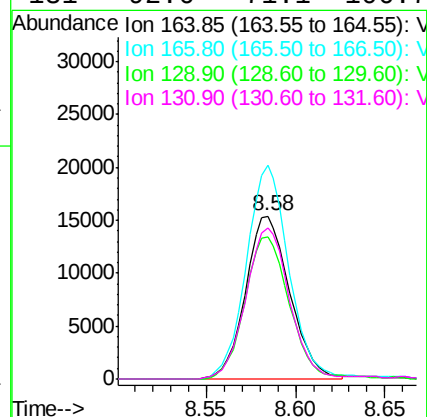
Ion Ratio Lower Upper

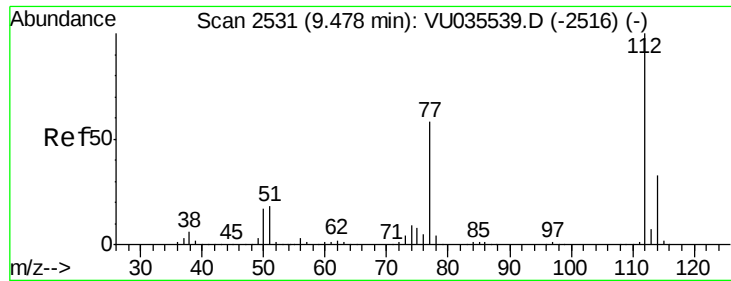
164 100

166 131.1 100.6 151.0

129 87.4 74.1 111.1

131 92.6 71.1 106.7





#59  
Chlorobenzene  
Concen: 1.076 ug/l  
RT: 9.48 min Scan# 2531  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

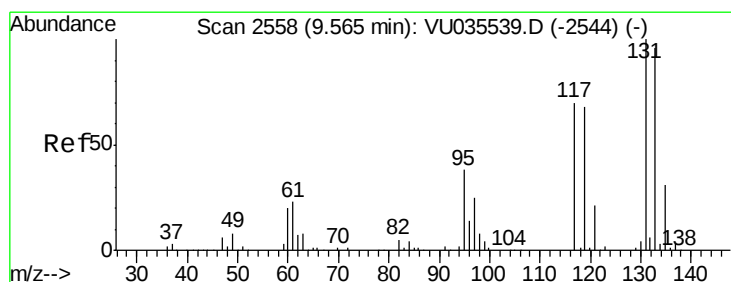
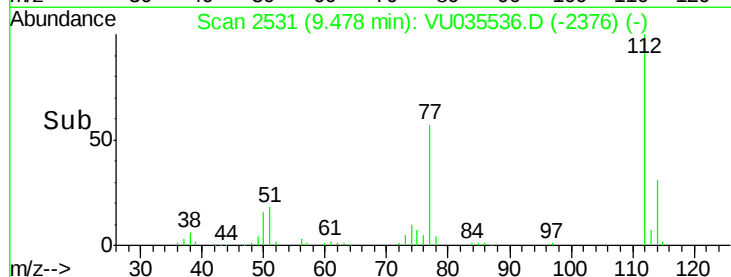
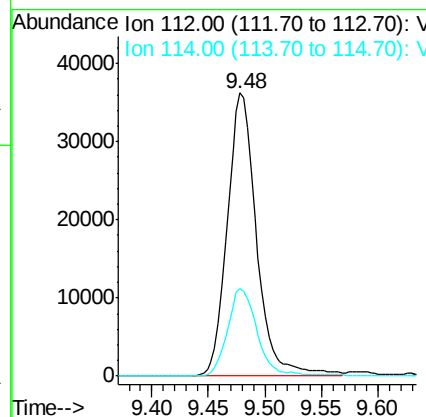
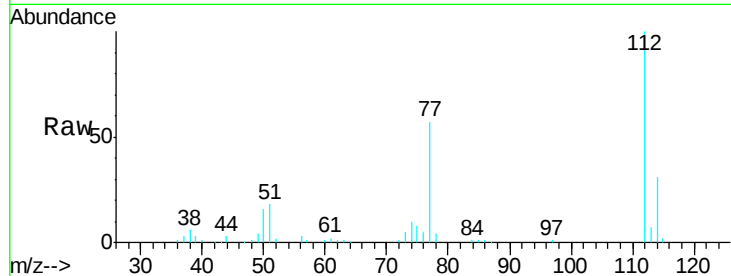
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Tgt Ion:112 Resp: 65513  
Ion Ratio Lower Upper  
112 100  
114 31.0 26.5 39.7

Manual Integrations  
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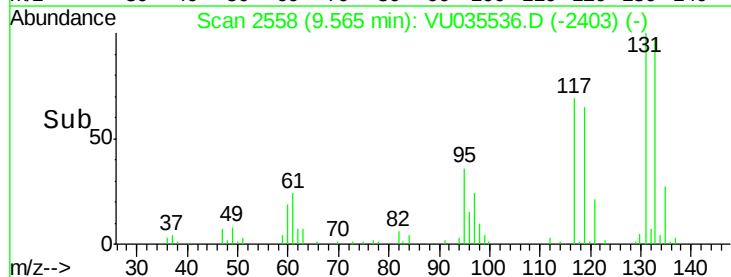
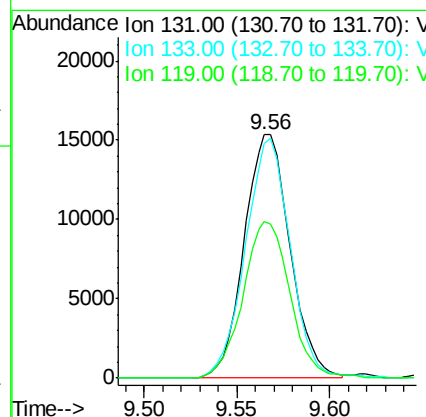
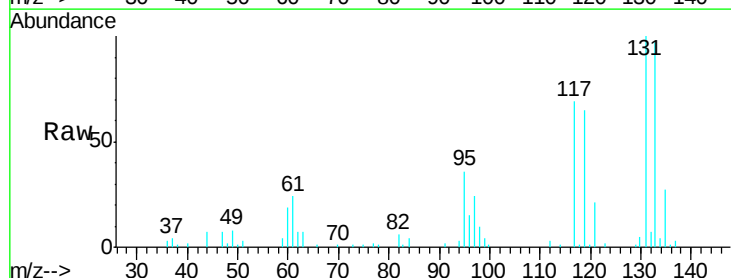
MMDadoda

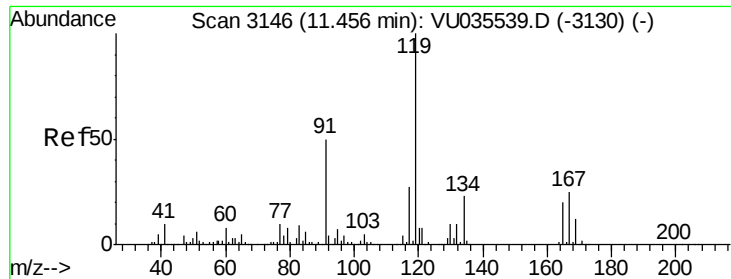
10/30/2019 10:39:40 AM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 1.164 ug/l  
RT: 9.56 min Scan# 2558  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

Tgt Ion:131 Resp: 26348  
Ion Ratio Lower Upper  
131 100  
133 96.5 76.9 115.3  
119 65.8 53.6 80.4





#61  
 Pentachloroethane  
 Concen: 1.164 ug/l  
 RT: 11.45 min Scan# 3145  
 Delta R.T. -0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

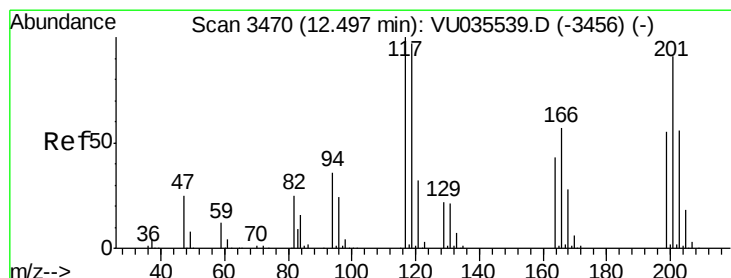
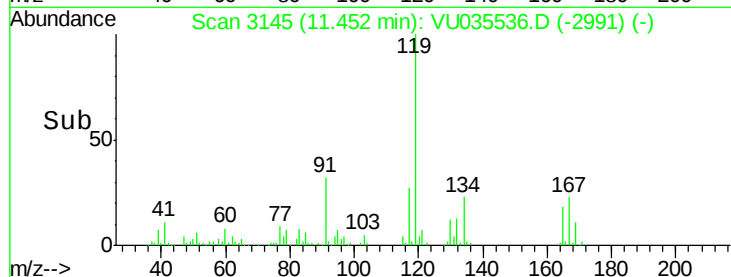
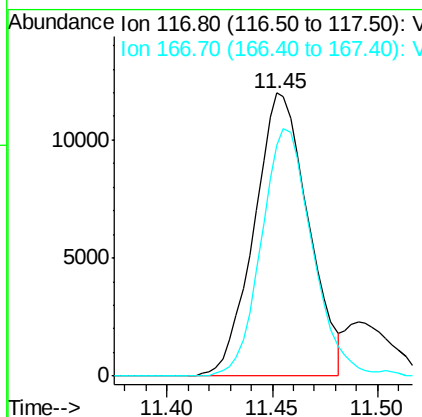
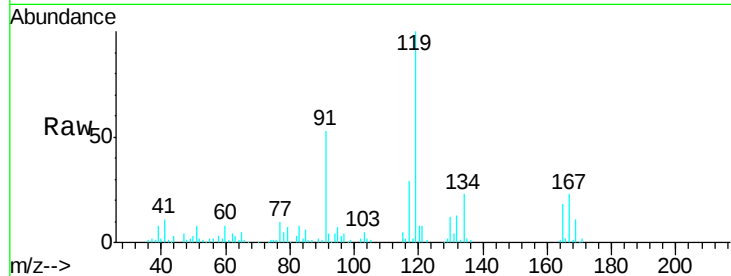
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Tgt Ion:117 Resp: 21419  
 Ion Ratio Lower Upper  
 117 100  
 167 82.7 69.8 104.6

Manual Integrations  
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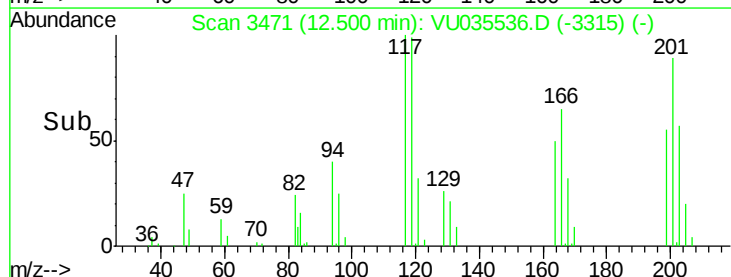
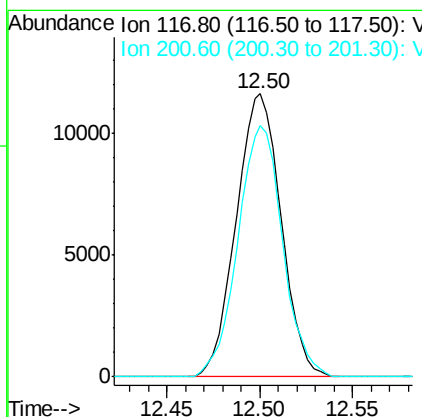
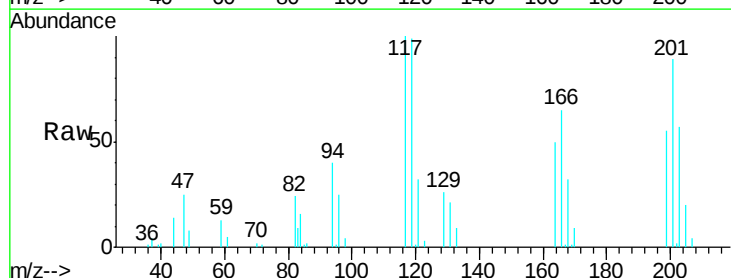
MMDadoda

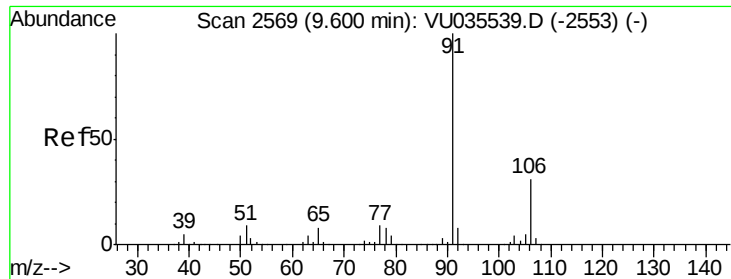
10/30/2019 10:39:40 AM



#62  
 Hexachloroethane  
 Concen: 1.195 ug/l  
 RT: 12.50 min Scan# 3471  
 Delta R.T. 0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

Tgt Ion:117 Resp: 19629  
 Ion Ratio Lower Upper  
 117 100  
 201 88.4 71.8 107.8





#63  
Ethyl Benzene  
Concen: 0.986 ug/l  
RT: 9.60 min Scan# 2569  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

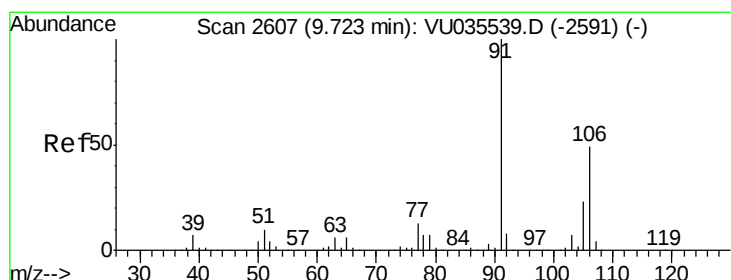
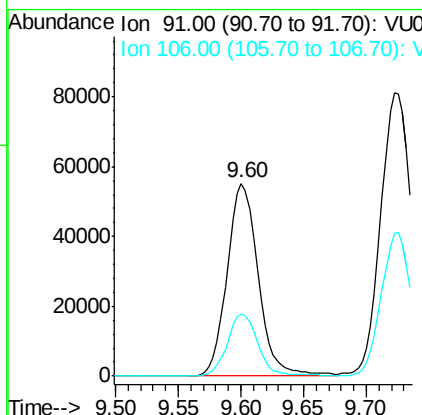
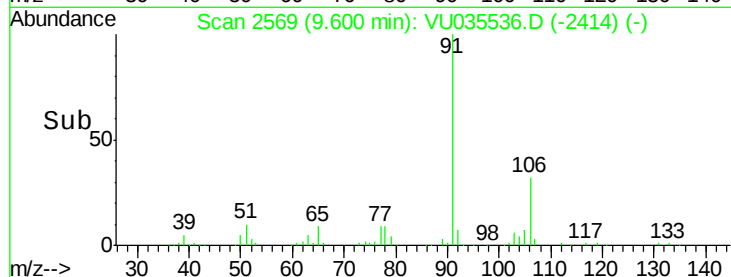
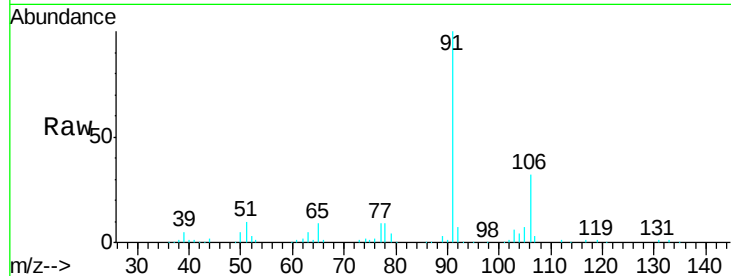
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 95745  
Ion Ratio Lower Upper  
91 100  
106 32.1 25.2 37.8

Manual Integrations  
APPROVED

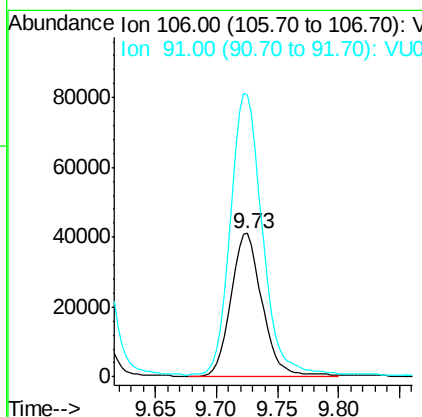
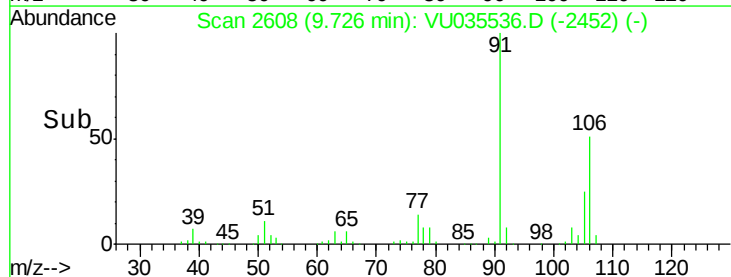
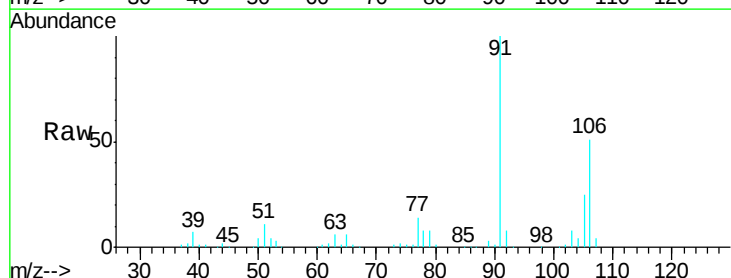
MMDadoda

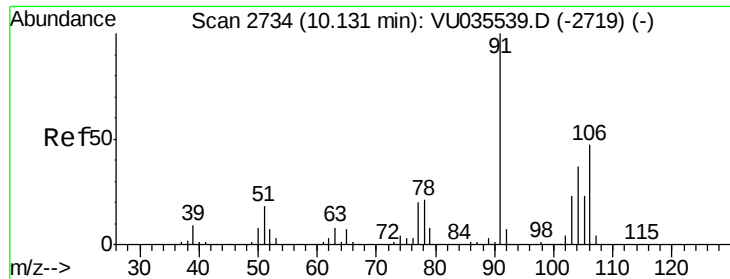
10/30/2019 10:39:40 AM



#64  
m/p-Xylenes  
Concen: 1.873 ug/l  
RT: 9.73 min Scan# 2608  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

Tgt Ion: 106 Resp: 73414  
Ion Ratio Lower Upper  
106 100  
91 198.5 81.0 121.4#





#65  
o-Xylene  
Concen: 0.980 ug/l  
RT: 10.13 min Scan# 2733  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

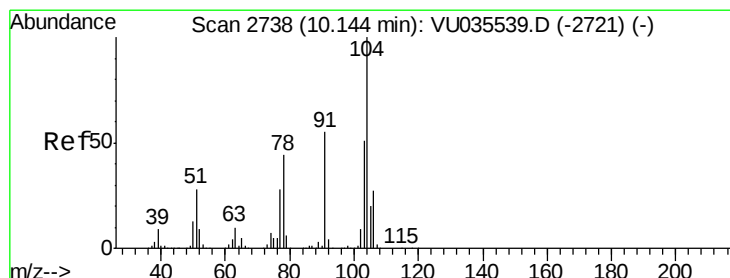
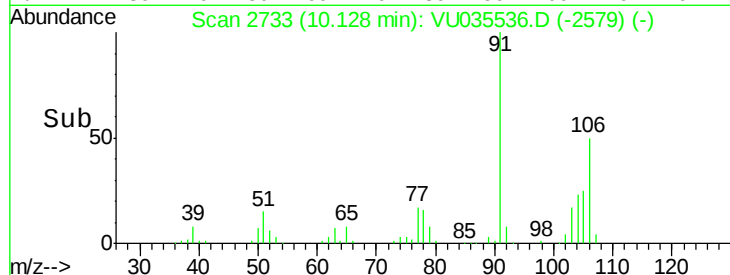
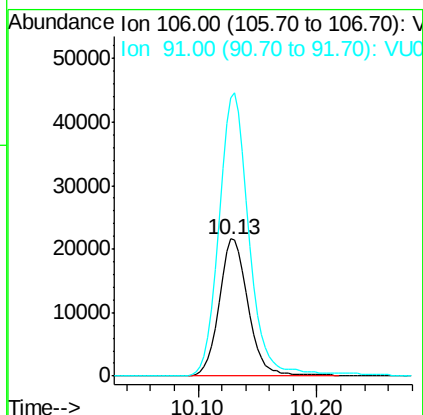
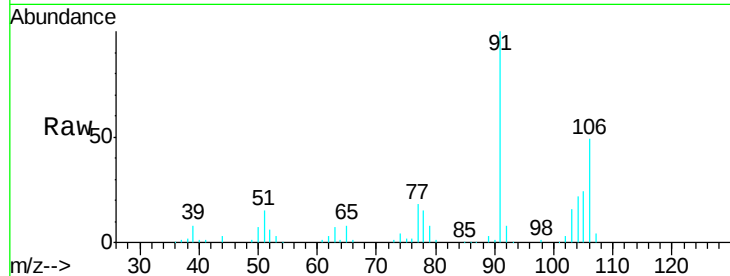
Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC001

Tgt Ion:106 Resp: 36605  
Ion Ratio Lower Upper  
106 100  
91 212.2 107.1 321.1

Manual Integrations  
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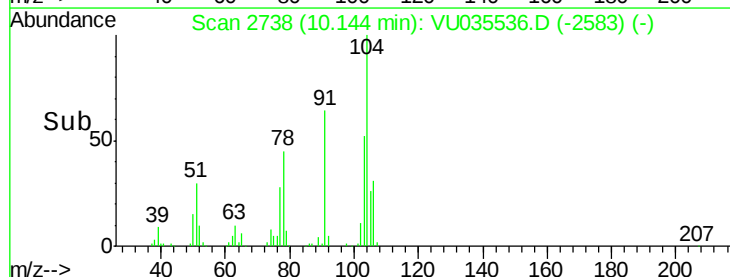
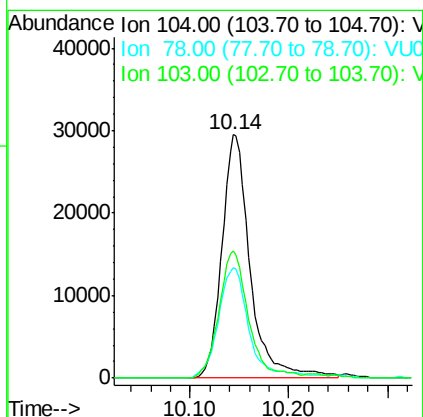
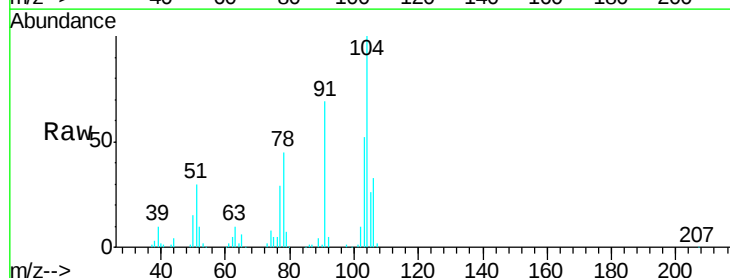
MMDadoda

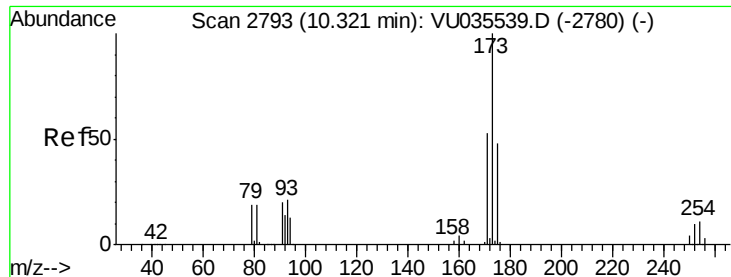
10/30/2019 10:39:40 AM



#66  
Styrene  
Concen: 0.949 ug/l  
RT: 10.14 min Scan# 2738  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

Tgt Ion:104 Resp: 59447  
Ion Ratio Lower Upper  
104 100  
78 49.6 38.6 58.0  
103 54.6 43.6 65.4





#67

Bromoform

Concen: 1.260 ug/l

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

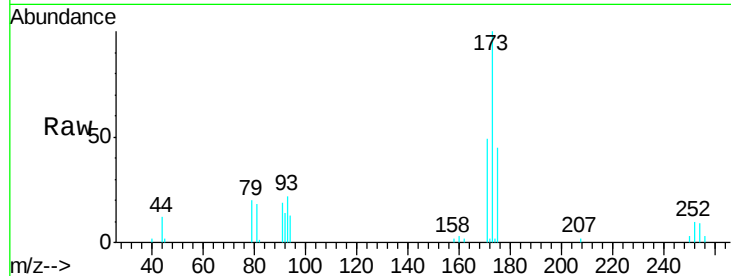
VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 15007 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 47.2  | 38.7  | 58.1  |
| 254       | 9.8   | 8.2   | 12.2  |

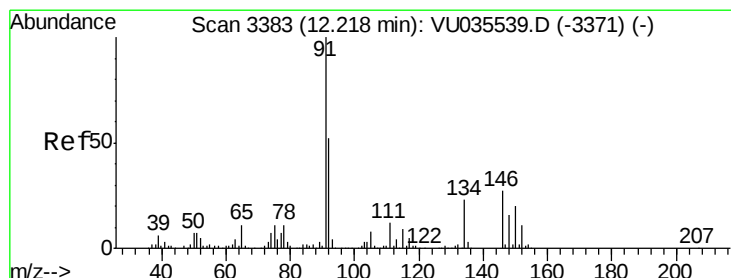
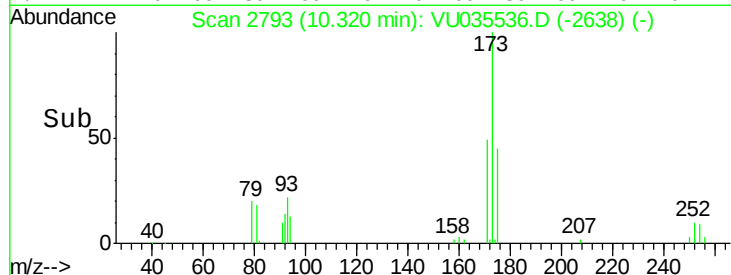
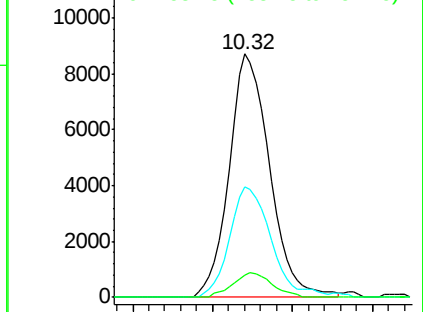
Manual Integrations  
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Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 0.929 ug/l

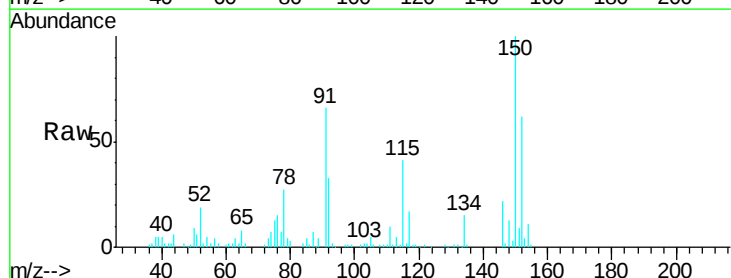
RT: 12.22 min Scan# 3384

Delta R.T. 0.00 min

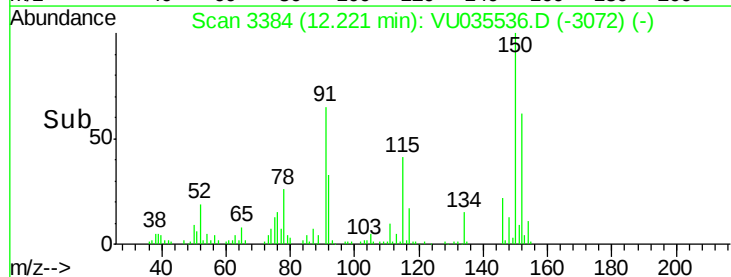
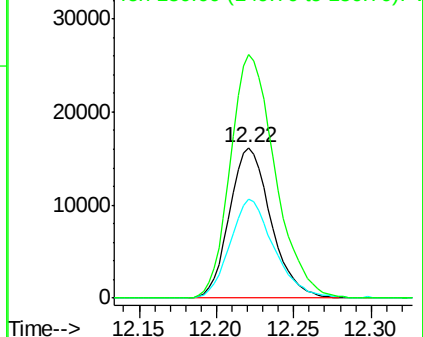
Lab File: VU035536.D

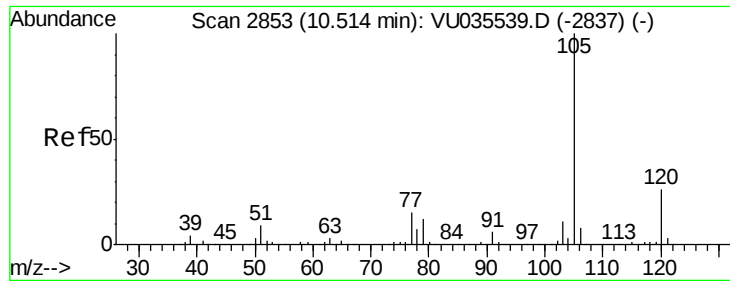
Acq: 29 Oct 2019 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 30050 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 69.9  | 0.0   | 250.6 |
| 150       | 175.0 | 0.0   | 656.8 |



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





#69

Isopropylbenzene

Concen: 0.991 ug/l

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion: 105 Resp: 96683

Ion Ratio Lower Upper

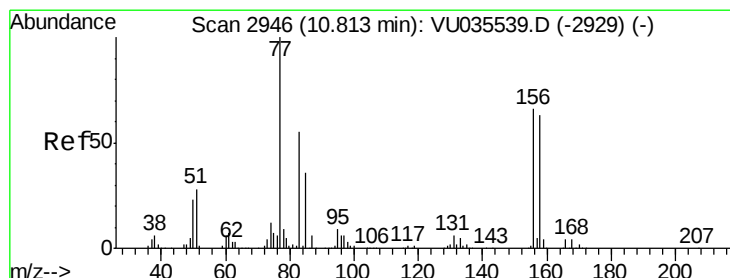
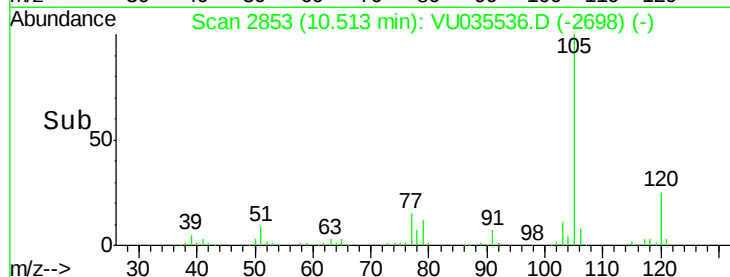
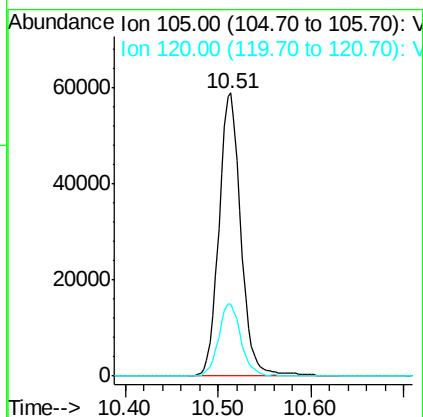
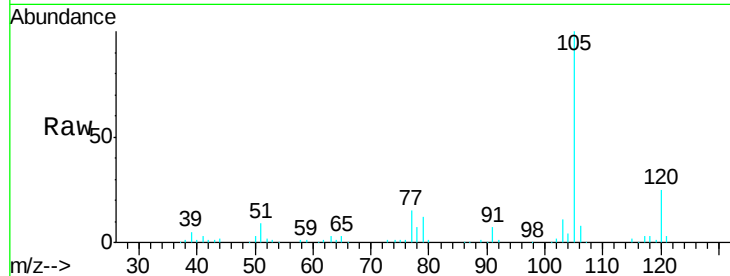
105 100

120 25.8 13.2 39.5

Manual Integrations  
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#70

1,1,2,2-Tetrachloroethane

Concen: 1.216 ug/l

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

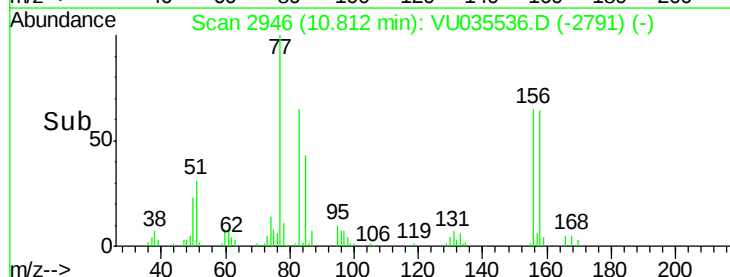
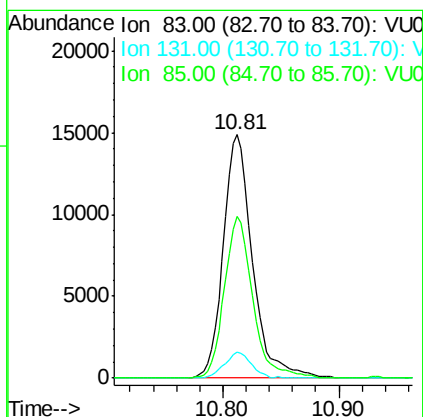
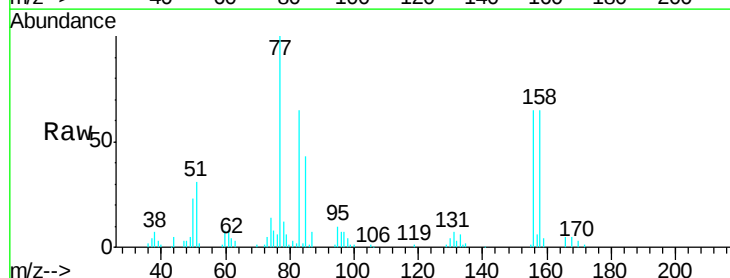
Tgt Ion: 83 Resp: 25854

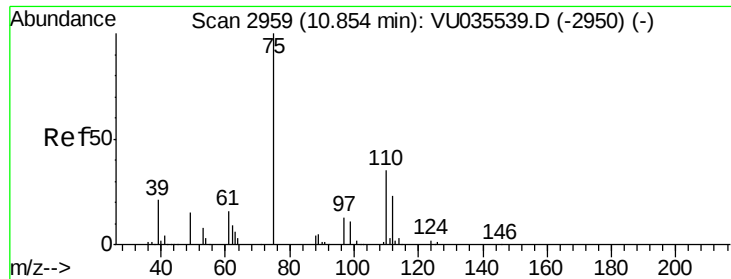
Ion Ratio Lower Upper

83 100

131 9.6 0.0 0.0#

85 64.5 33.5 50.3#





#71  
1,2,3-Trichloropropane  
Concen: 1.495 ug/l m  
RT: 10.85 min Scan# 2959  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

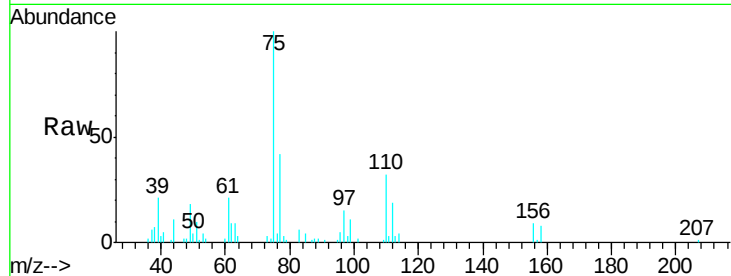
Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 68.6  |
| 110     | 28.6  | 0.0   | 77.2  |
| 97      | 14.1  | 0.0   | 39.0  |

Manual Integrations  
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10/30/2019 10:39:40 AM

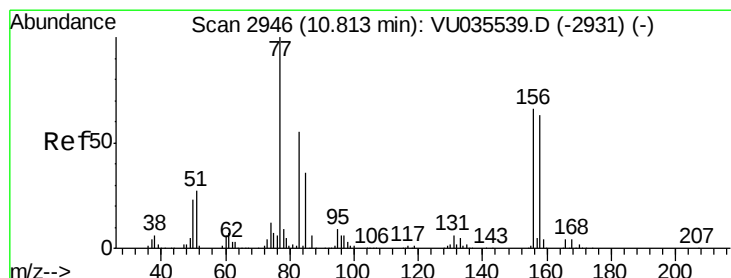
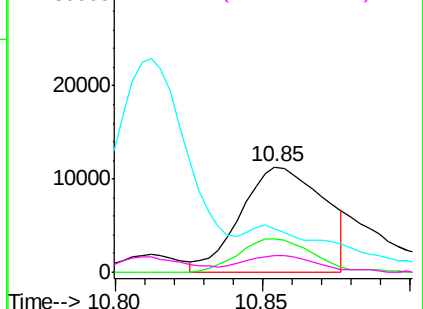
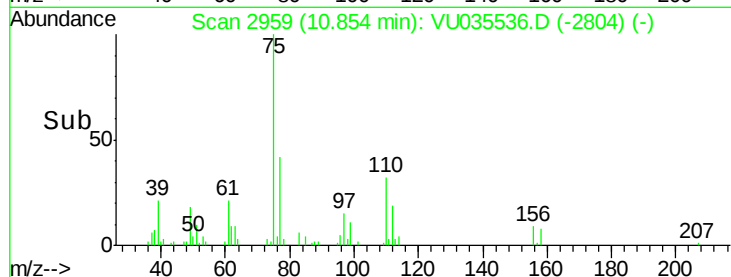


Abundance Ion 75.00 (74.70 to 75.70): VU035539.D (-2950) (-)

Ion 77.00 (76.70 to 77.70): VU035539.D (-2950) (-)

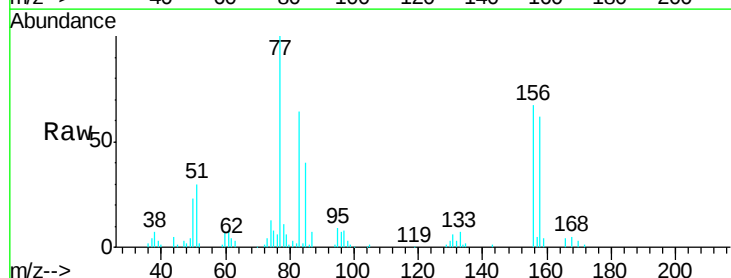
Ion 110.00 (109.70 to 110.70): VU035539.D (-2950) (-)

Ion 97.00 (96.70 to 97.70): VU035539.D (-2950) (-)



#72  
Bromobenzene  
Concen: 1.049 ug/l  
RT: 10.81 min Scan# 2945  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

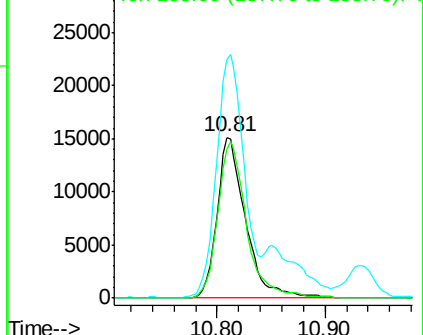
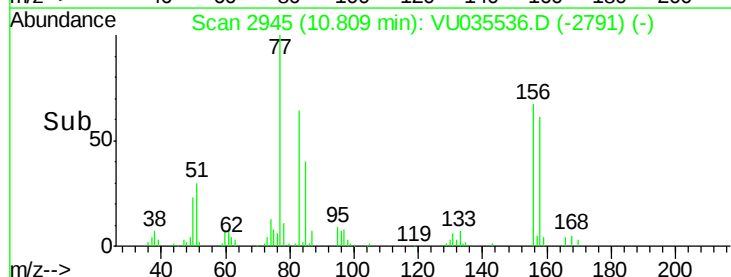
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 147.6 | 0.0   | 300.4 |
| 158     | 97.6  | 0.0   | 194.4 |

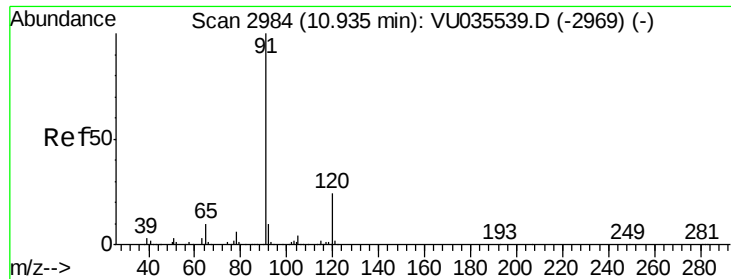


Abundance Ion 156.00 (155.70 to 156.70): VU035539.D (-2931) (-)

Ion 77.00 (76.70 to 77.70): VU035539.D (-2931) (-)

Ion 158.00 (157.70 to 158.70): VU035539.D (-2931) (-)





#73

n-propylbenzene

Concen: 0.909 ug/l

RT: 10.93 min Scan# 2983

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion:120 Resp: 25578

Ion Ratio Lower Upper

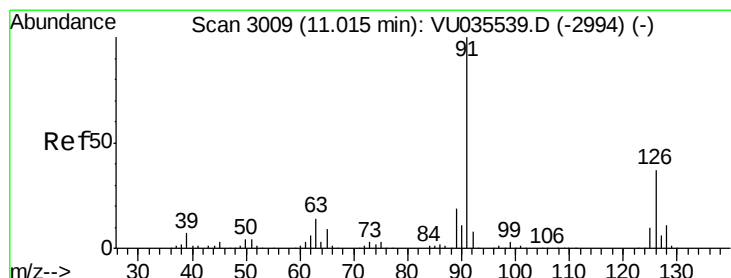
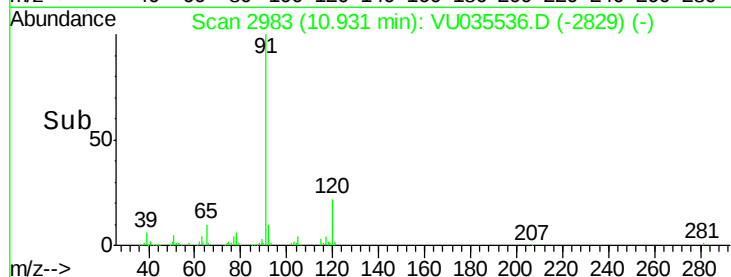
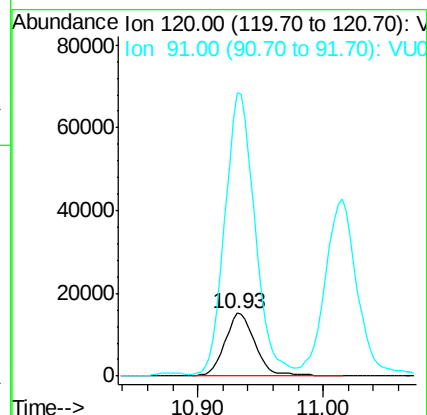
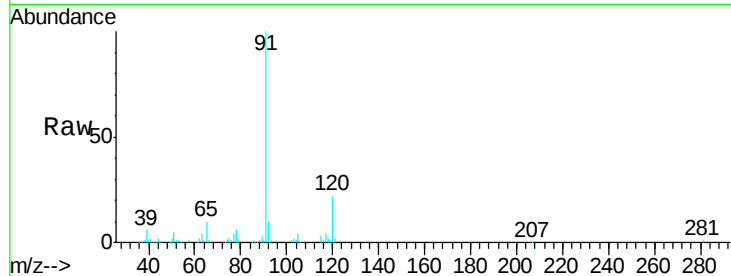
120 100

91 441.2 340.6 510.8

Manual Integrations  
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#74

2-Chlorotoluene

Concen: 0.999 ug/l

RT: 11.01 min Scan# 3009

Delta R.T. -0.00 min

Lab File: VU035536.D

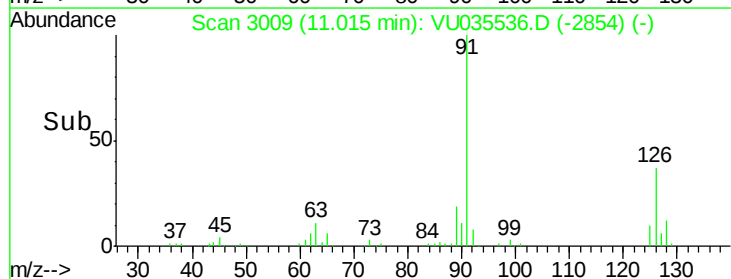
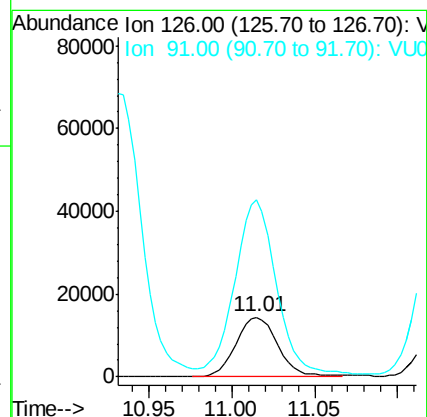
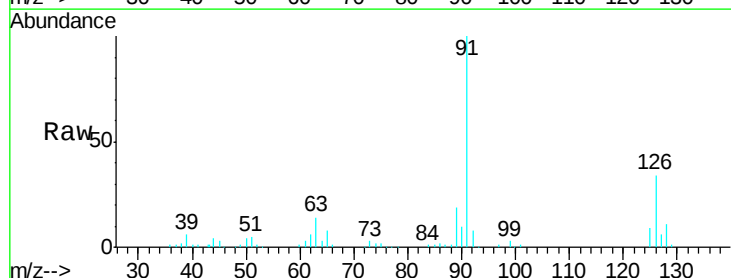
Acq: 29 Oct 2019 12:01

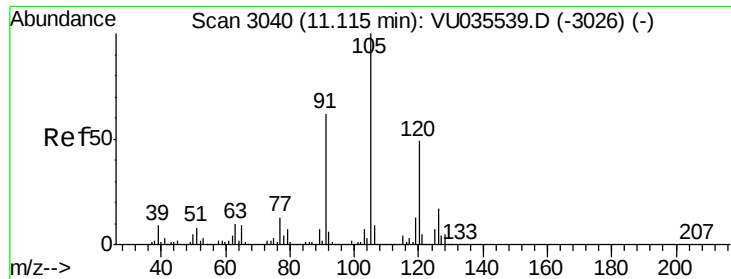
Tgt Ion:126 Resp: 25411

Ion Ratio Lower Upper

126 100

91 295.9 0.0 574.2





#75

1,3,5-Trimethylbenzene

Concen: 0.881 ug/l

RT: 11.11 min Scan# 3040

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 76256

Ion Ratio Lower Upper

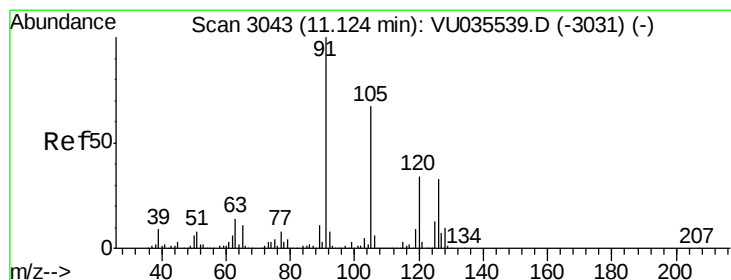
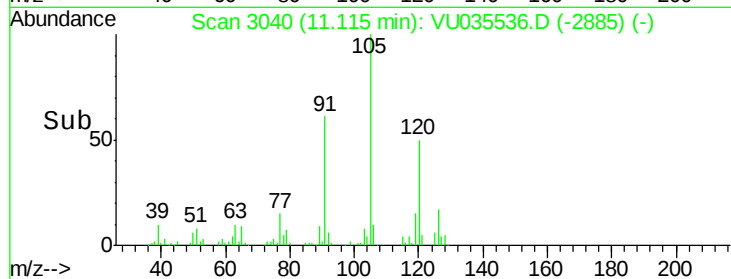
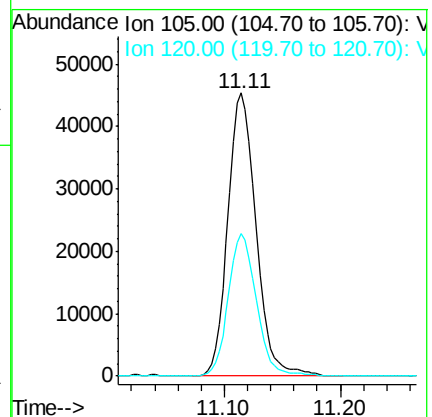
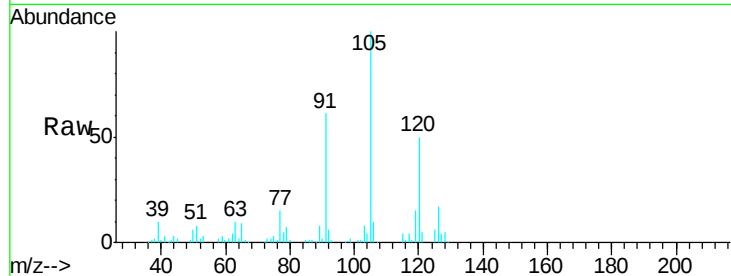
105 100

120 50.2 39.4 59.2

Manual Integrations  
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#76

4-Chlorotoluene

Concen: 1.010 ug/l

RT: 11.12 min Scan# 3043

Delta R.T. -0.00 min

Lab File: VU035536.D

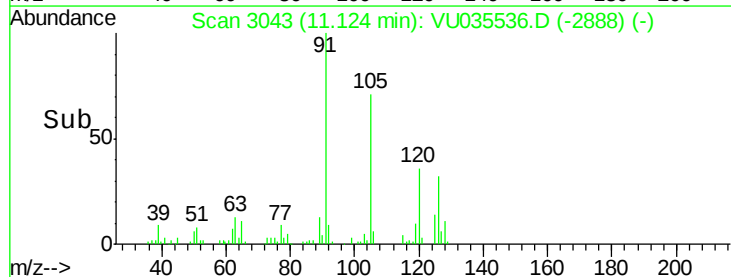
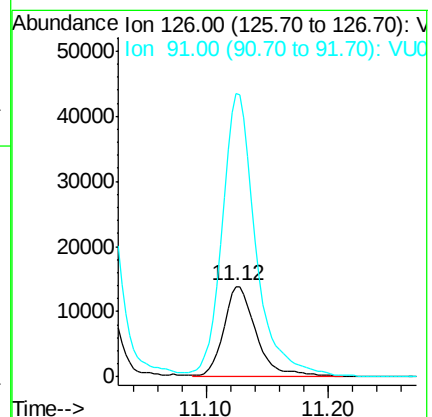
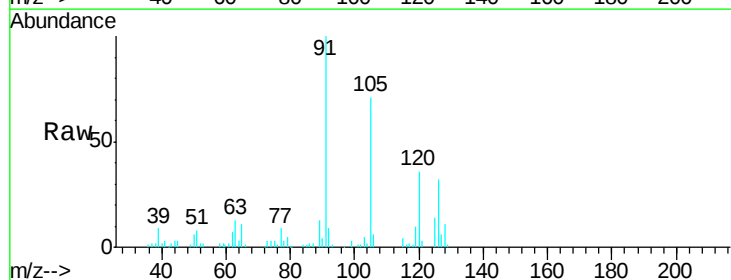
Acq: 29 Oct 2019 12:01

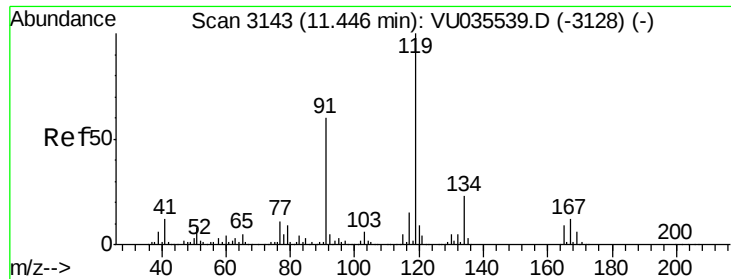
Tgt Ion:126 Resp: 26214

Ion Ratio Lower Upper

126 100

91 323.0 0.0 637.0





#77

tert-Butylbenzene

Concen: 0.955 ug/l

RT: 11.45 min Scan# 3143

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

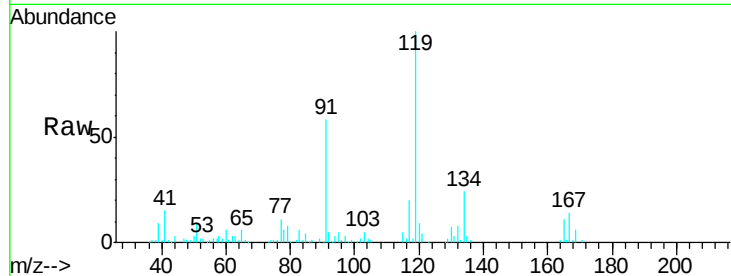
VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 80719 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 56.0  | 27.9  | 83.7  |
| 134      | 23.1  | 18.3  | 27.5  |

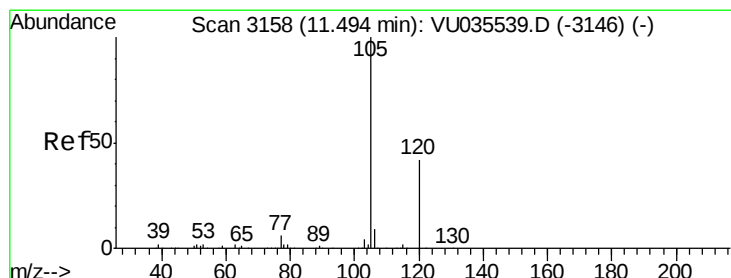
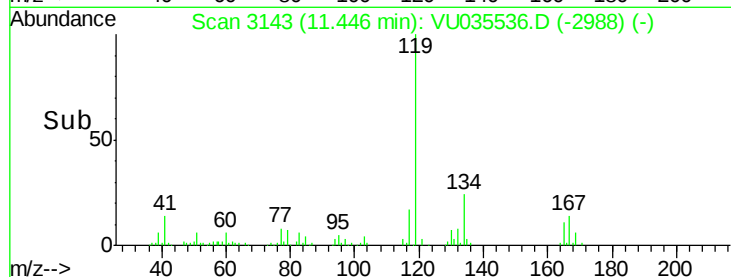
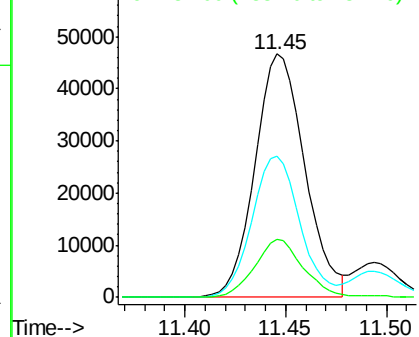
Manual Integrations  
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Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V



#78

1,2,4-Trimethylbenzene

Concen: 0.896 ug/l

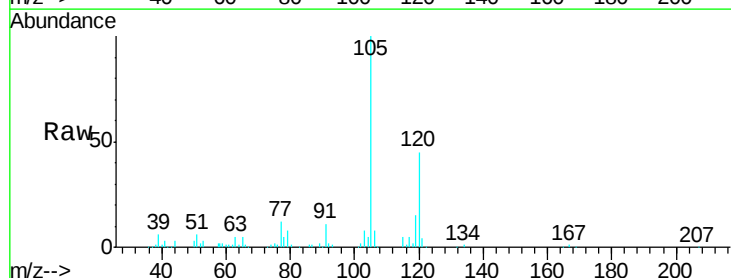
RT: 11.49 min Scan# 3158

Delta R.T. -0.00 min

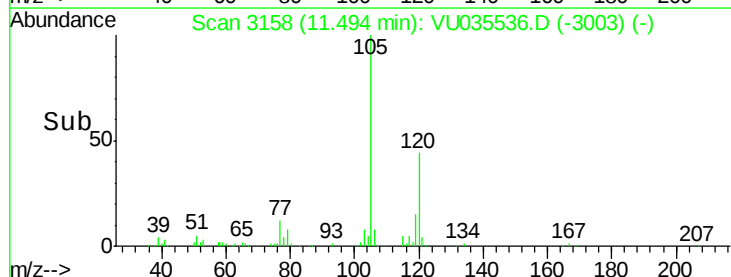
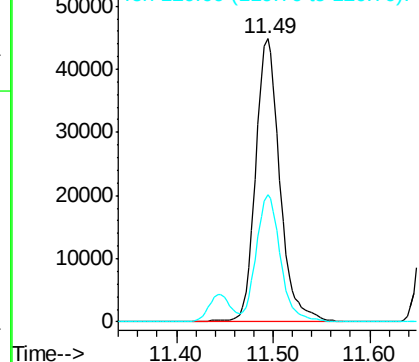
Lab File: VU035536.D

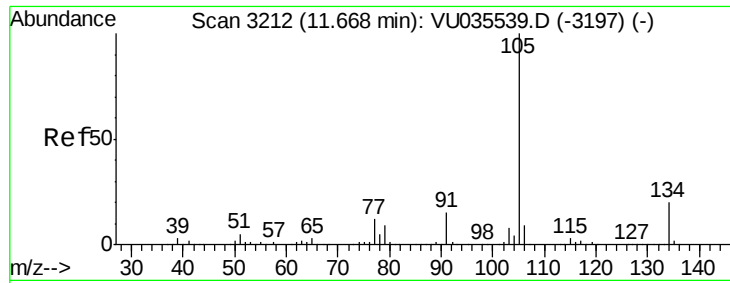
Acq: 29 Oct 2019 12:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 78263 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 44.9  | 23.2  | 69.5  |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#79  
 sec-Butylbenzene  
 Concen: 0.900 ug/l  
 RT: 11.67 min Scan# 3212  
 Delta R.T. -0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

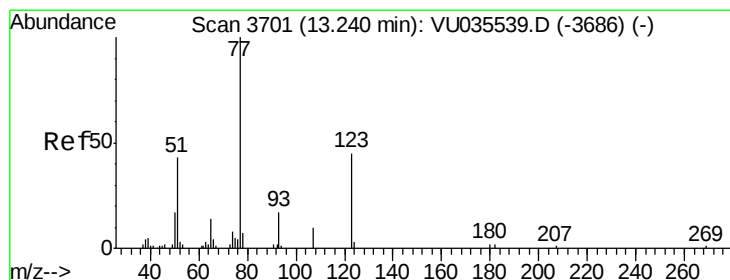
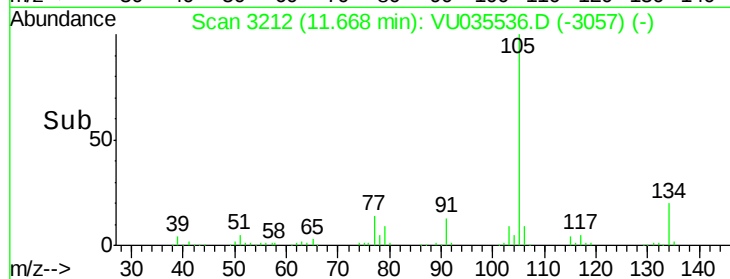
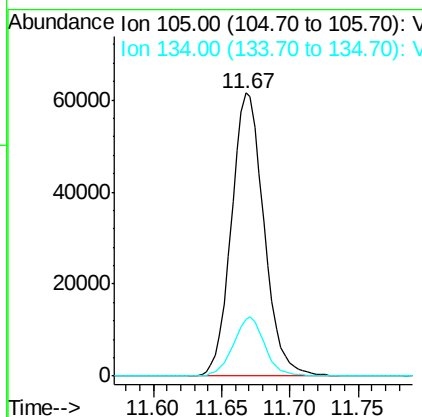
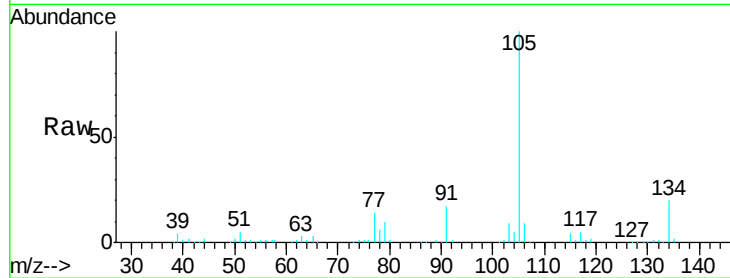
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.0  | 15.9  | 23.9  |

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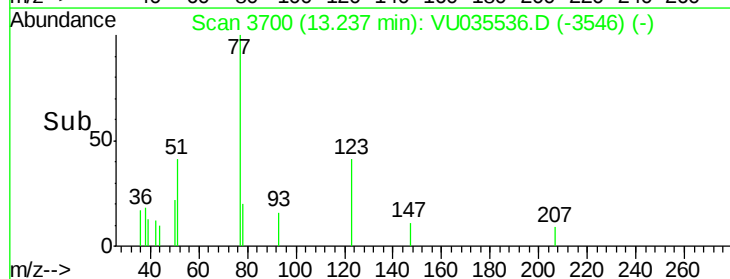
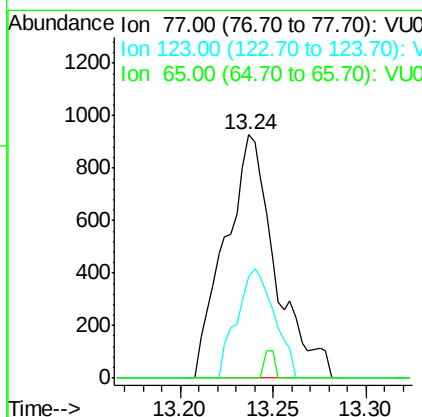
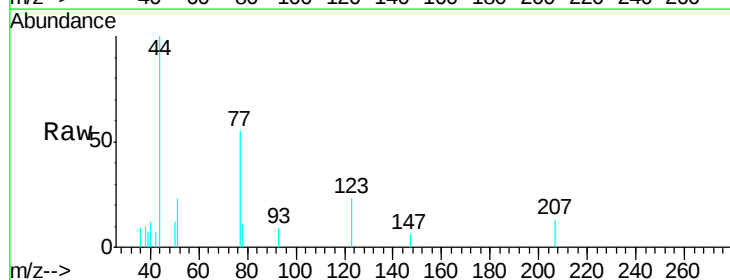
MMDadoda

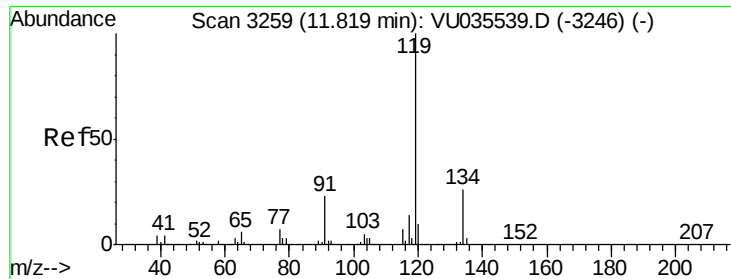
10/30/2019 10:39:40 AM



#80  
 Nitrobenzene  
 Concen: 4.017 ug/l  
 RT: 13.24 min Scan# 3700  
 Delta R.T. -0.00 min  
 Lab File: VU035536.D  
 Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 33.6  | 18.9  | 67.1  |
| 65      | 2.3   | 11.2  | 14.2  |





#81  
p-Isopropyltoluene  
Concen: 0.854 ug/l  
RT: 11.82 min Scan# 3259  
Delta R.T. -0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

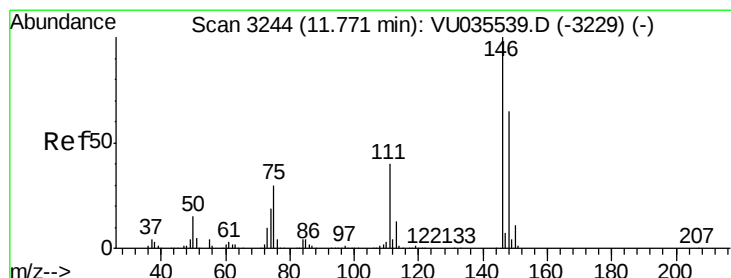
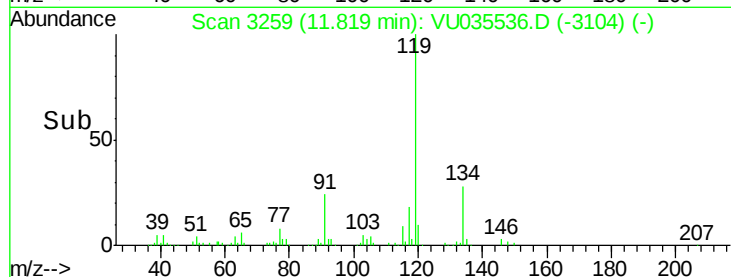
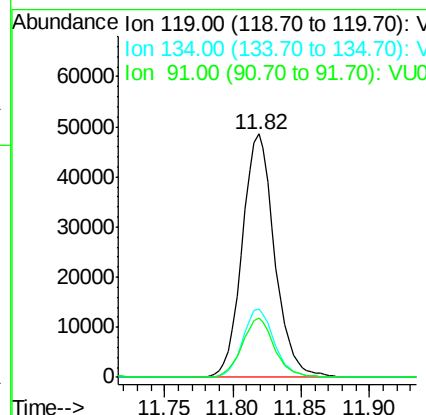
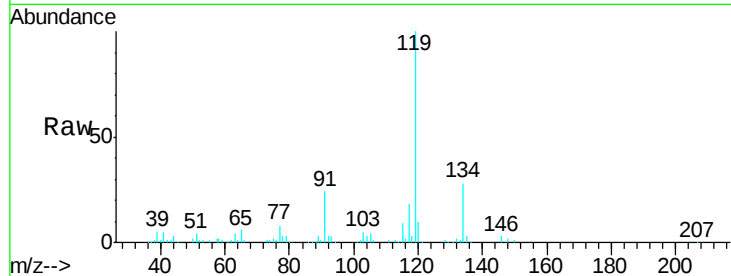
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 80068 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 134       | 27.4  | 17.0  | 25.4# |
| 91        | 24.3  | 41.3  | 61.9# |

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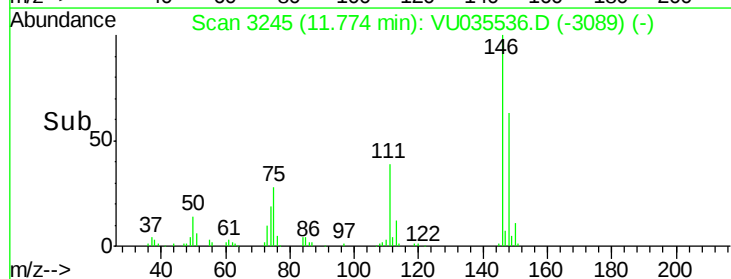
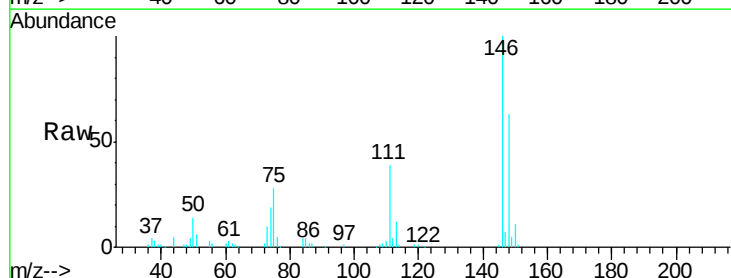
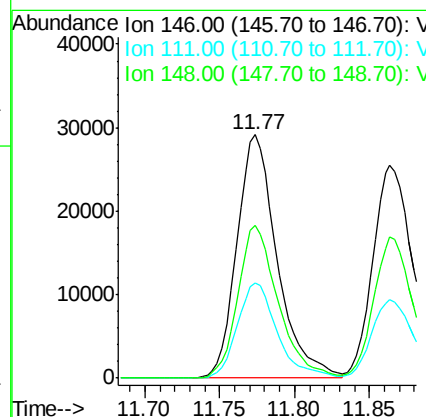
MMDadoda

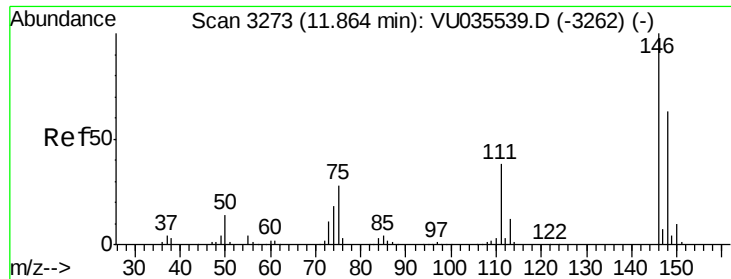
10/30/2019 10:39:40 AM



#82  
1,3-Dichlorobenzene  
Concen: 0.998 ug/l  
RT: 11.77 min Scan# 3245  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 54616 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 38.9  | 31.8  | 47.6  |
| 148       | 62.9  | 50.9  | 76.3  |





#83

1,4-Dichlorobenzene

Concen: 0.929 ug/l

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

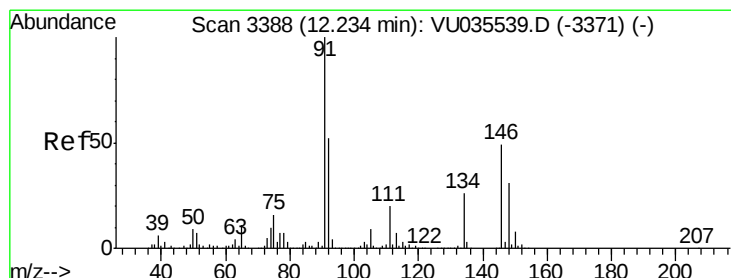
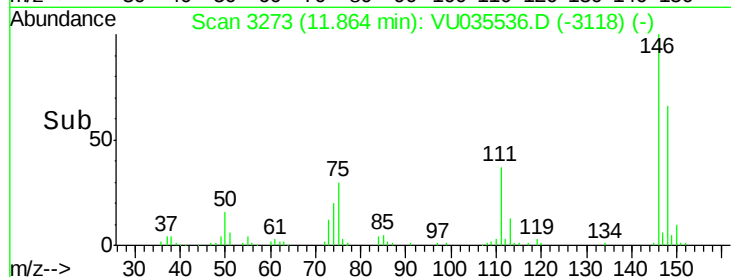
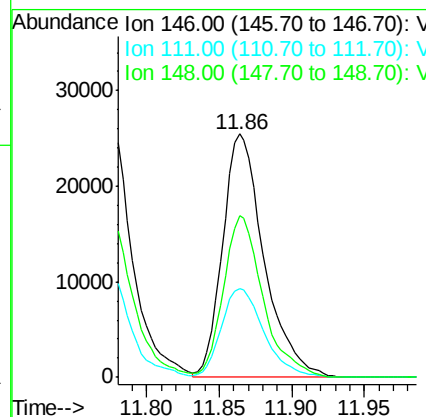
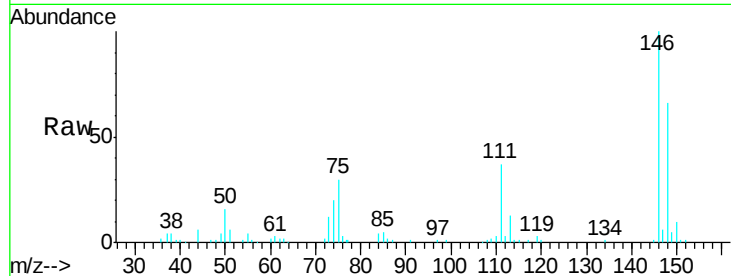
VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 50432 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 37.7  | 30.1  | 45.1  |
| 148       | 63.5  | 51.0  | 76.4  |

Manual Integrations  
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#84

n-Butylbenzene

Concen: 0.778 ug/l

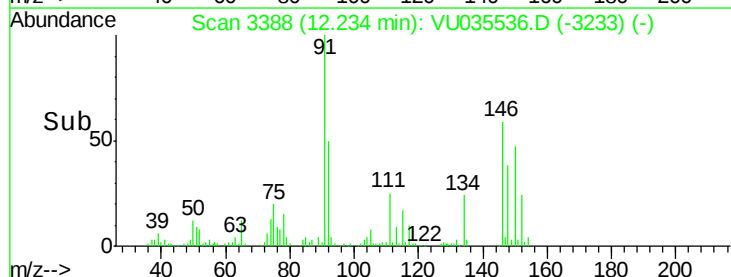
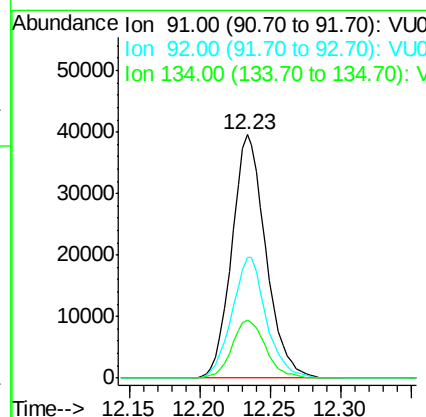
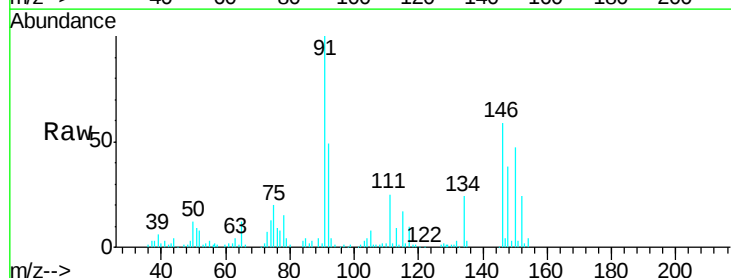
RT: 12.23 min Scan# 3388

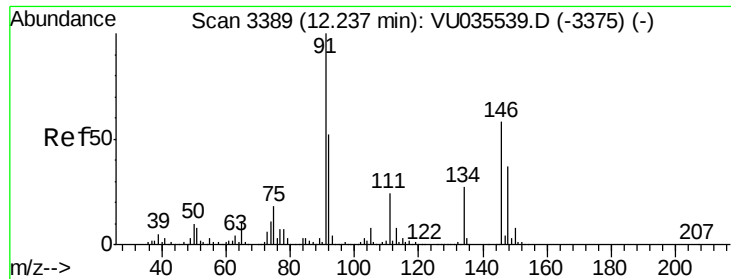
Delta R.T. -0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 66504 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 49.9  | 41.4  | 62.0  |
| 134       | 23.6  | 20.6  | 30.8  |





#85

1,2-Dichlorobenzene

Concen: 1.016 ug/l

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampled :

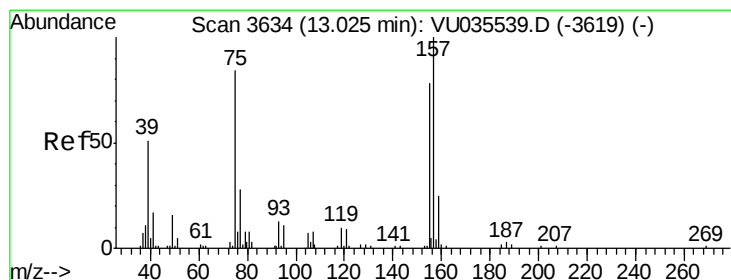
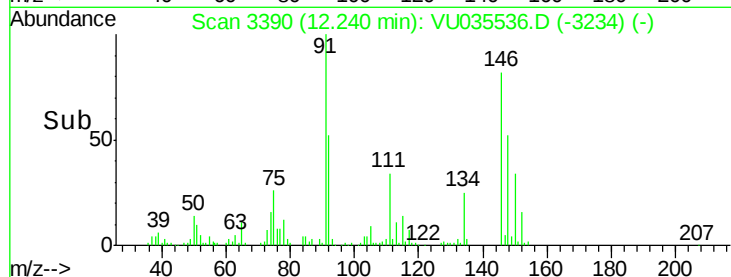
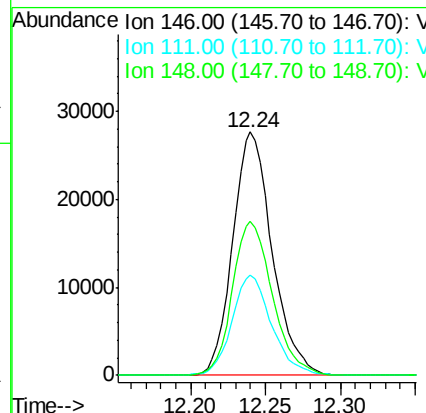
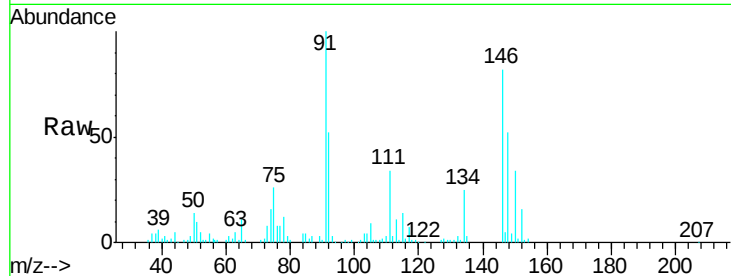
VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 50700 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 41.6  | 20.5  | 61.5  |
| 148       | 63.9  | 32.0  | 96.2  |

Manual Integrations  
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#86

1,2-Dibromo-3-Chloropropane

Concen: 1.037 ug/l

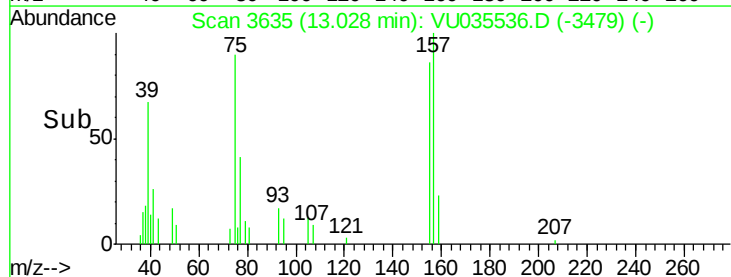
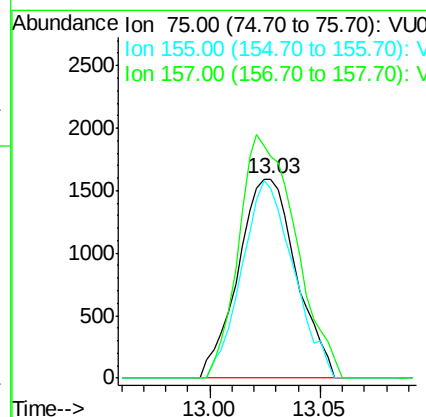
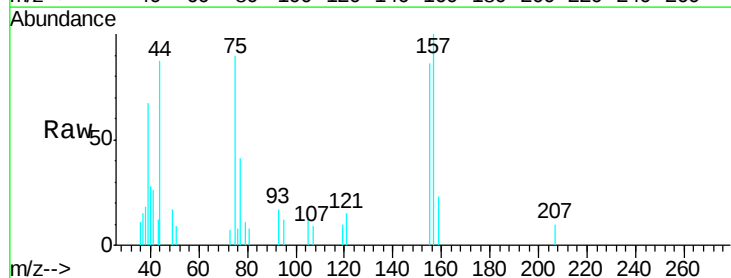
RT: 13.03 min Scan# 3635

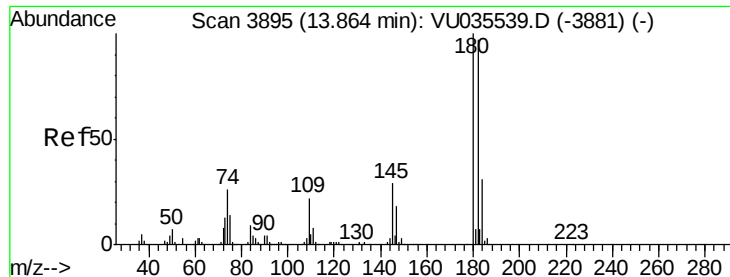
Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 2904  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 88.2  | 71.3  | 106.9 |
| 157       | 119.6 | 91.2  | 136.8 |





#87

1,2,4-Trichlorobenzene

Concen: 0.525 ug/l

RT: 13.87 min Scan# 3896

Delta R.T. 0.00 min

Lab File: VU035536.D

Acq: 29 Oct 2019 12:01

Instrument :

MSVOA\_U

ClientSampleId :

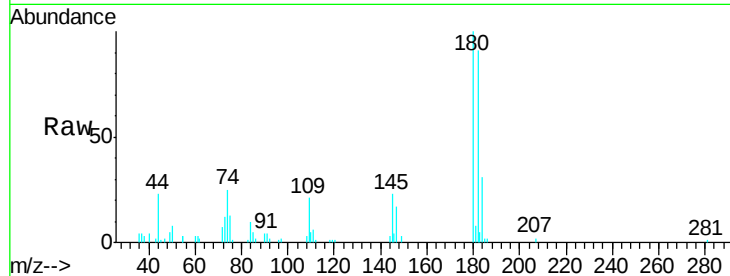
VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 14276 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 90.9  | 77.4  | 116.0 |
| 145       | 24.9  | 22.6  | 33.8  |

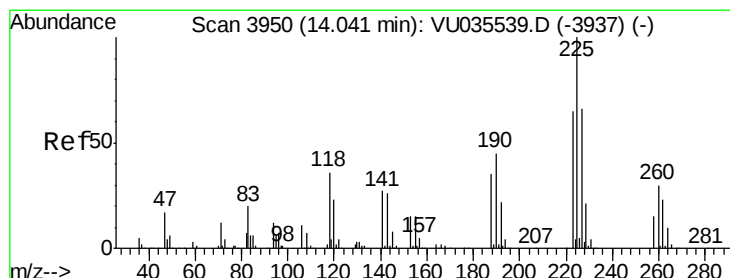
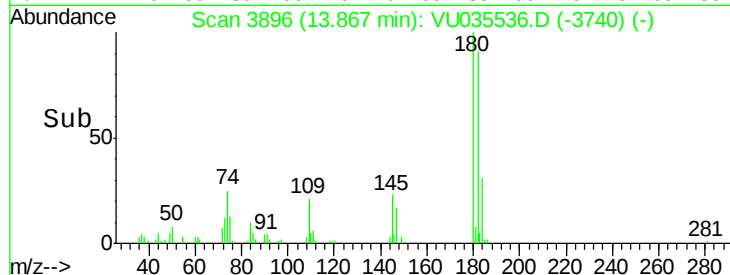
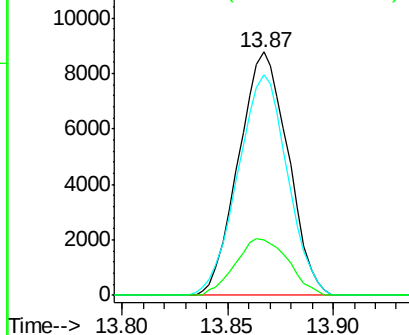
Manual Integrations  
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Abundance Ion 179.70 (179.40 to 180.40): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 0.954 ug/l

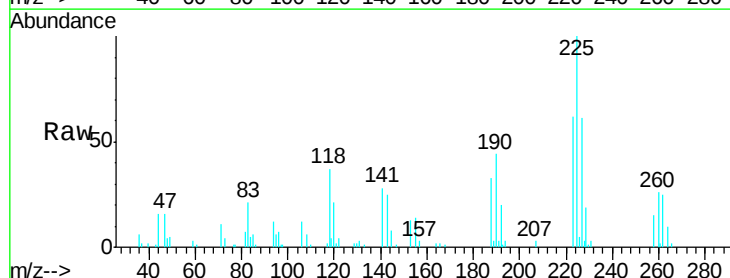
RT: 14.04 min Scan# 3950

Delta R.T. -0.00 min

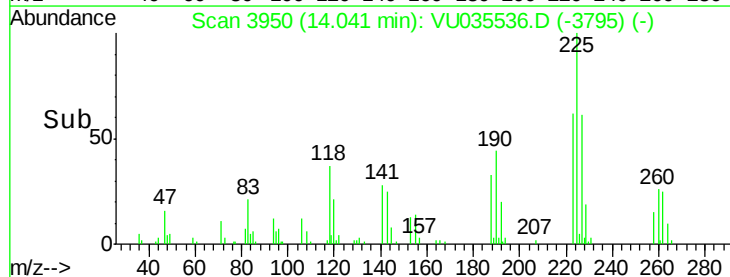
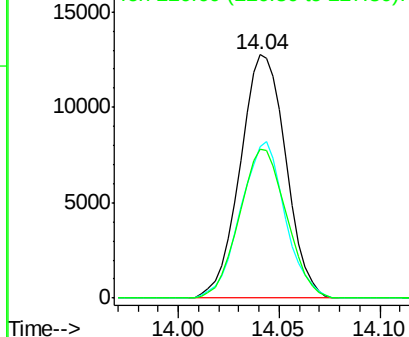
Lab File: VU035536.D

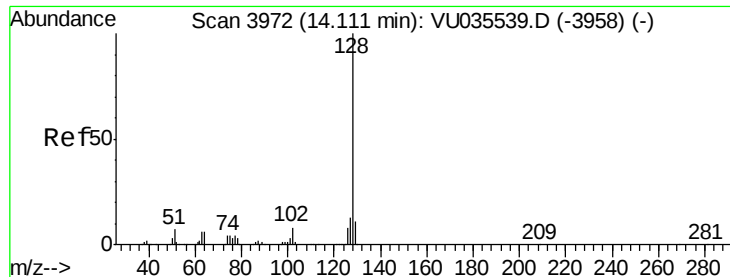
Acq: 29 Oct 2019 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 20261 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 62.6  | 50.7  | 76.1  |
| 227       | 62.7  | 52.2  | 78.4  |



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: 0.431 ug/l  
RT: 14.11 min Scan# 3973  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

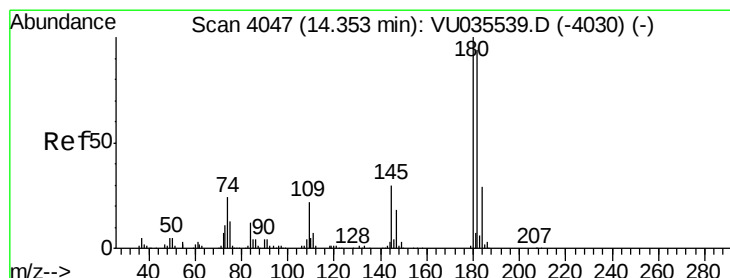
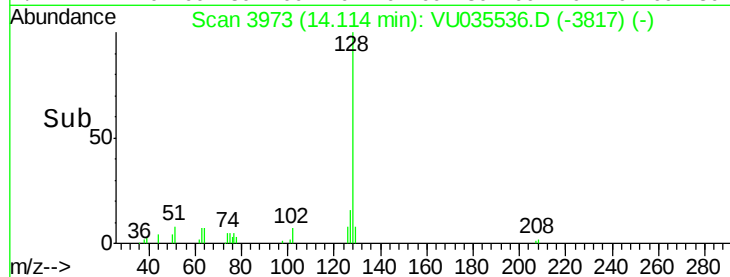
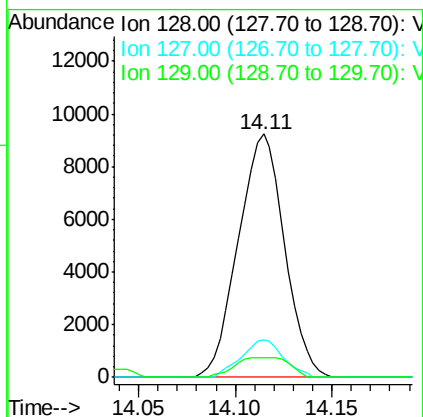
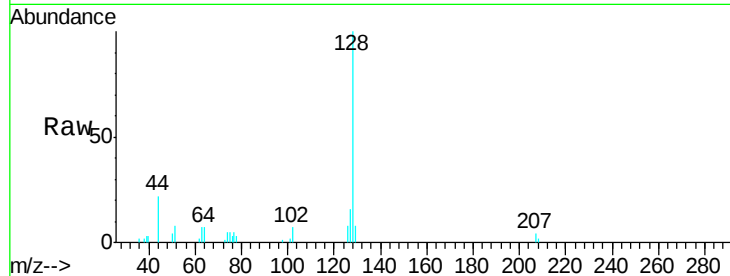
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 14.1  | 10.3  | 15.5  |
| 129     | 5.5   | 8.6   | 13.0  |

Manual Integrations  
APPROVED

MMDadoda

10/30/2019 10:39:40 AM



#90  
1,2,3-Trichlorobenzene  
Concen: 0.575 ug/l  
RT: 14.36 min Scan# 4048  
Delta R.T. 0.00 min  
Lab File: VU035536.D  
Acq: 29 Oct 2019 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.7  | 75.8  | 113.8 |
| 145     | 30.3  | 23.7  | 35.5  |

