

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
 Data File : VW012657.D  
 Acq On : 05 Sep 2019 22:20  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/6/2019 12:29:41 PM

Quant Time: Sep 06 08:29:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 216476   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 338034   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 283398   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 147675   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 136765   | 53.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.30% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 109116   | 54.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.16% |      |
| 50) Toluene-d8            | 10.32  | 98  | 388682   | 47.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.02%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 151370   | 52.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.98% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 66314   | 49.751  | ug/l | 99     |
| 3) Chloromethane              | 2.21 | 50  | 89297   | 43.241  | ug/l | 96     |
| 4) Vinyl Chloride             | 2.35 | 62  | 107759  | 42.633  | ug/l | 97     |
| 5) Bromomethane               | 2.77 | 94  | 62461   | 48.795  | ug/l | 96     |
| 6) Chloroethane               | 2.92 | 64  | 65567   | 45.984  | ug/l | 94     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 66459   | 52.364  | ug/l | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 69267   | 57.498  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 116384  | 53.948  | ug/l | 97     |
| 10) Methyl Iodide             | 4.26 | 142 | 167526  | 57.393  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.19 | 59  | 49218   | 317.814 | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 114371  | 52.673  | ug/l | 97     |
| 13) Acrolein                  | 3.89 | 56  | 40929   | 280.765 | ug/l | 100    |
| 14) Allyl chloride            | 4.66 | 41  | 247582  | 53.335  | ug/l | 98     |
| 15) Acrylonitrile             | 5.37 | 53  | 183774  | 307.770 | ug/l | 100    |
| 16) Acetone                   | 4.13 | 43  | 168038  | 255.452 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.38 | 76  | 308808  | 47.058  | ug/l | 98     |
| 18) Methyl Acetate            | 4.67 | 43  | 113254  | 69.512  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 230497  | 65.642  | ug/l | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 136017  | 54.696  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 126730  | 54.427  | ug/l | 96     |
| 22) Diisopropyl ether         | 6.31 | 45  | 493556  | 57.361  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1541220 | 291.053 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 267975  | 57.199  | ug/l | 100    |
| 25) 2-Butanone                | 7.17 | 43  | 252948  | 282.976 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 145852  | 55.002  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 144341  | 58.021  | ug/l | 100    |
| 28) Bromochloromethane        | 7.51 | 49  | 110496  | 54.113  | ug/l | 93     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 163199  | 304.309 | ug/l | 97     |
| 30) Chloroform                | 7.67 | 83  | 253780  | 59.208  | ug/l | 98     |
| 31) Cyclohexane               | 7.95 | 56  | 215847  | 46.567  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 199619  | 58.871  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 193857  | 55.496  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 116031  | 60.615  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 180844  | 59.814  | ug/l | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
 Data File : VW012657.D  
 Acq On : 05 Sep 2019 22:20  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/6/2019 12:29:41 PM

Quant Time: Sep 06 08:29:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 191905   | 48.901   | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 547355   | 57.384   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 72328    | 64.289   | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 188892   | 63.187   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 220692   | 62.242   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 133286   | 57.482   | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 138535   | 53.966   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 69438    | 60.795   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.64  | 83   | 172138   | 56.628   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 105160   | 62.314   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 20867    | 1193.405 | ug/l # | 75       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 536288   | 297.365  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 324153   | 56.570   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 188105   | 60.750   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 213816   | 57.189   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 93346    | 57.763   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 147822   | 62.850   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 175537   | 57.481   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 323689   | 268.158  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 365842   | 286.695  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 108406   | 60.227   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 86299    | 57.322   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 111265   | 60.557   | ug/l   | 93       |
| 65) Chlorobenzene              | 11.65 | 112  | 326013   | 58.422   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 123608   | 63.494   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 628329   | 58.451   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.83 | 106  | 465618   | 120.249  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 223514   | 62.368   | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 389699   | 62.823   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 69332    | 71.481   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 626596   | 56.626   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 195528   | 58.485   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 119373   | 58.844   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 83906m   | 58.339   | ug/l   |          |
| 77) Bromobenzene               | 12.74 | 156  | 144242   | 60.254   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.80 | 91   | 753577   | 55.785   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 437721   | 57.073   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 538354   | 58.224   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 39665    | 60.467   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 458256   | 57.064   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 464767   | 59.339   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 538647   | 57.993   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 631027   | 56.235   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 580130   | 57.890   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 274383   | 58.599   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 270063   | 58.087   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 555529   | 55.745   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 100267   | 57.028   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 244180   | 59.445   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 21803    | 63.752   | ug/l   | 97       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
Data File : VW012657.D  
Acq On : 05 Sep 2019 22:20  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM

Quant Time: Sep 06 08:29:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 173154   | 60.999 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 113871   | 60.752 | ug/l  | 98       |
| 95) Naphthalene            | 15.36 | 128  | 333429   | 59.007 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 155918   | 62.955 | ug/l  | 99       |

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

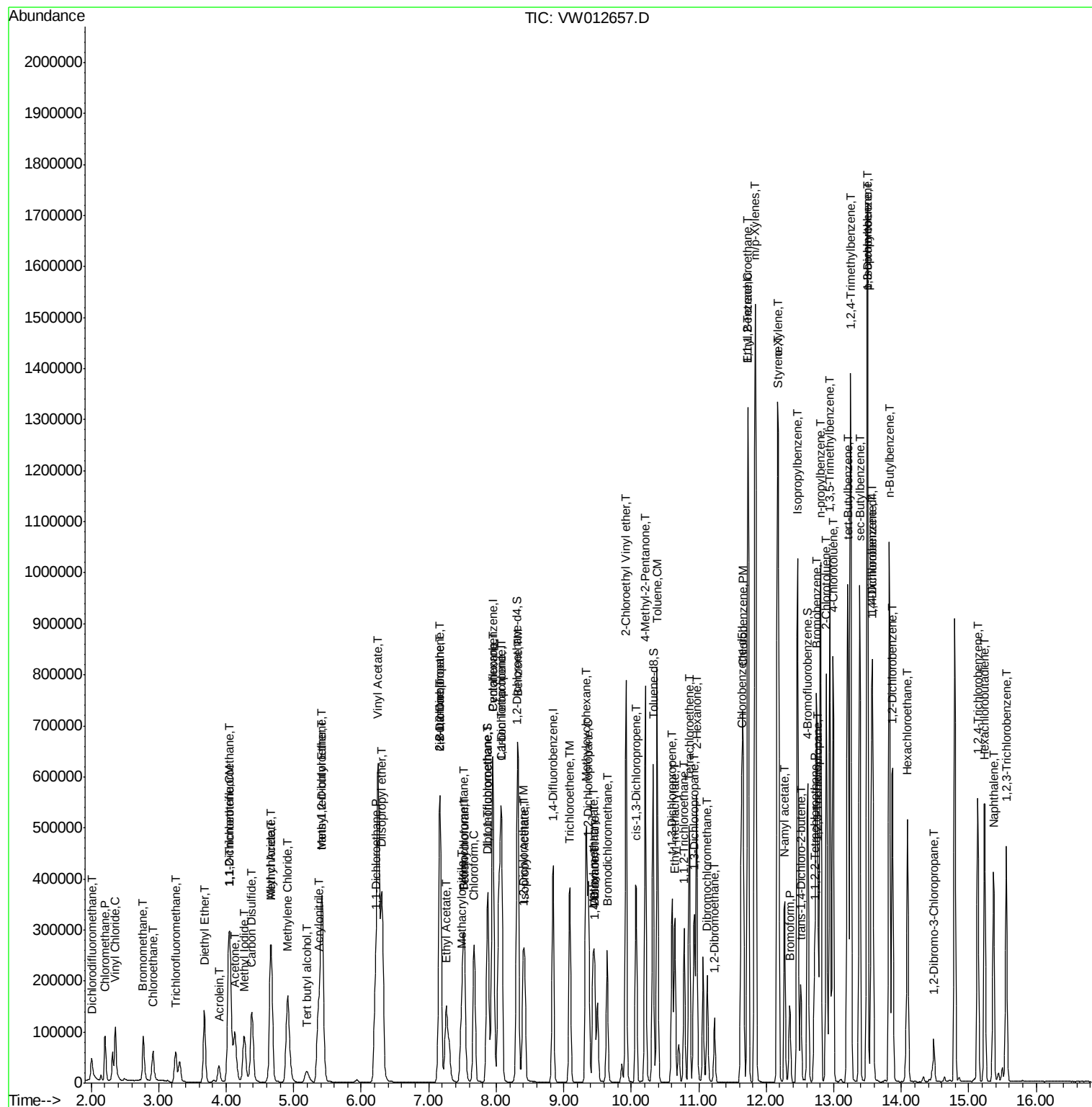
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
 Data File : VW012657.D  
 Acq On : 05 Sep 2019 22:20  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

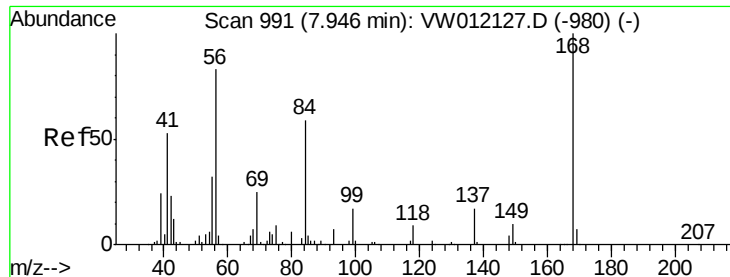
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/6/2019 12:29:41 PM

Quant Time: Sep 06 08:29:29 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 216476

Ion Ratio Lower Upper

168 100

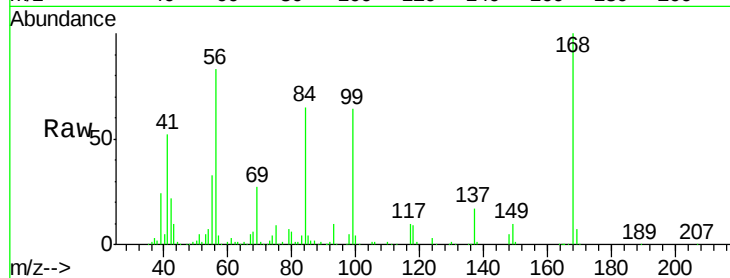
99 63.9 49.2 73.8

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

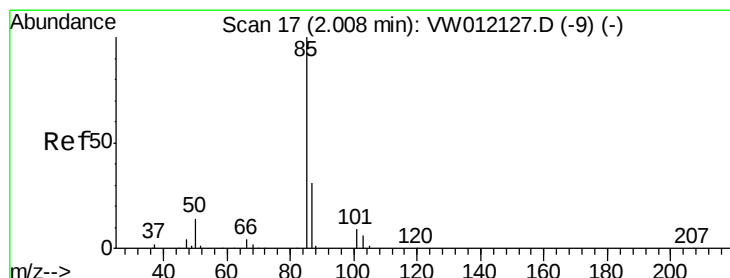
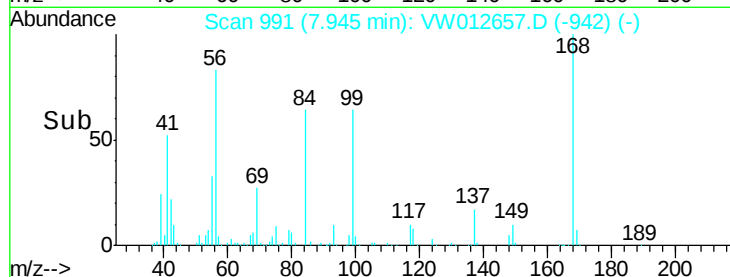
40000

20000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 49.751 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW012657.D

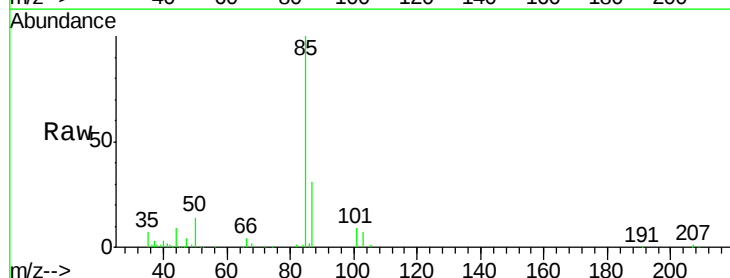
Acq: 05 Sep 2019 22:20

Tgt Ion: 85 Resp: 66314

Ion Ratio Lower Upper

85 100

87 30.6 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

25000

20000

15000

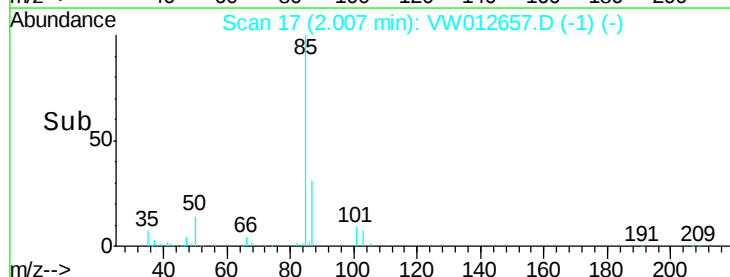
10000

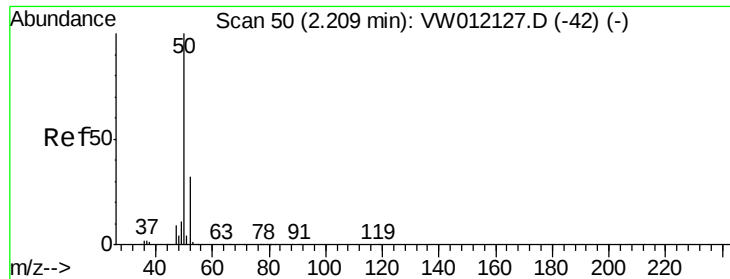
5000

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 43.241 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 89297

Ion Ratio Lower Upper

50 100

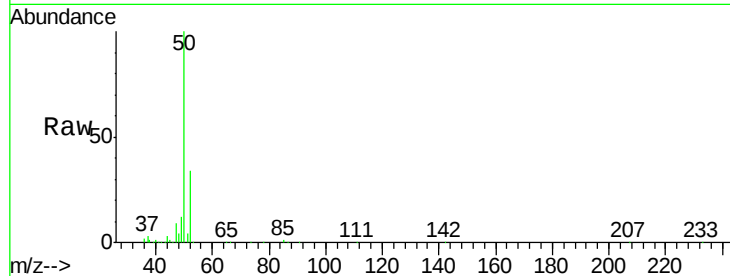
52 33.9 25.5 38.3

Manual Integrations

APPROVED

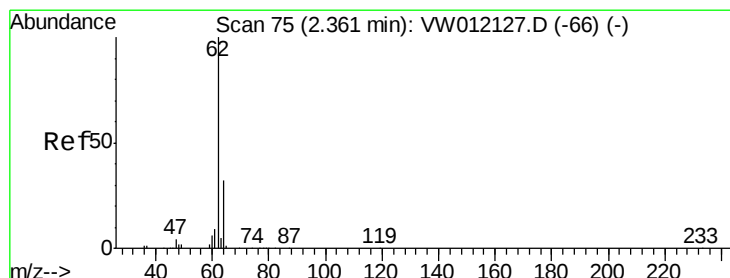
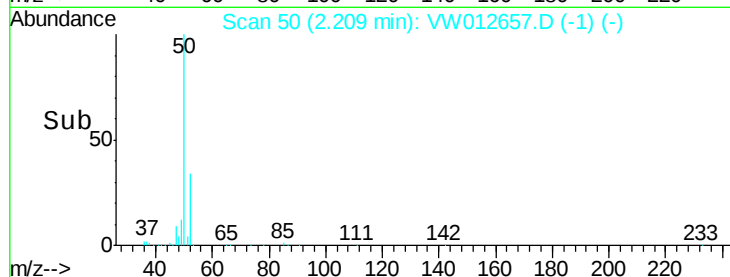
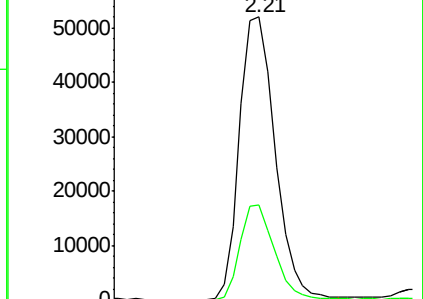
MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 42.633 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW012657.D

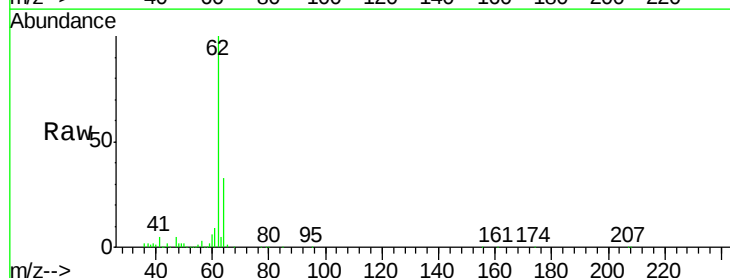
Acq: 05 Sep 2019 22:20

Tgt Ion: 62 Resp: 107759

Ion Ratio Lower Upper

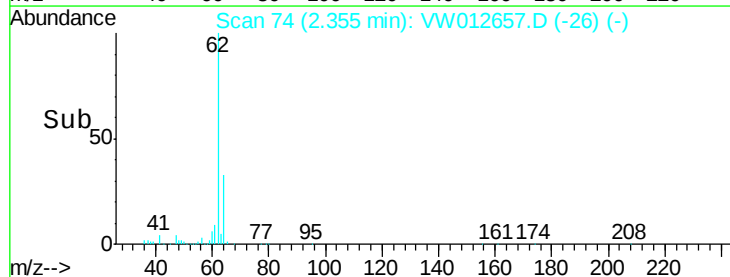
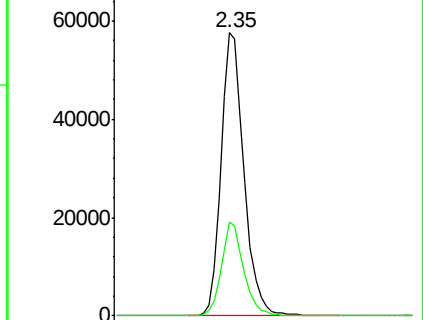
62 100

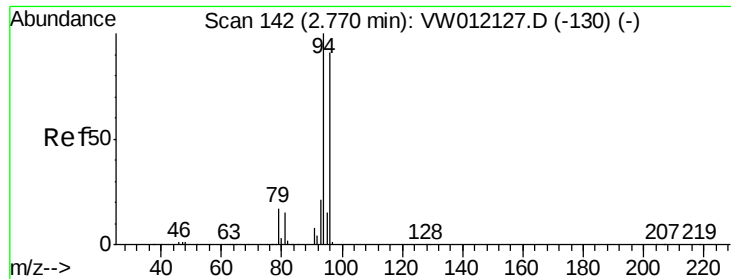
64 33.2 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 48.795 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 62461

Ion Ratio Lower Upper

94 100

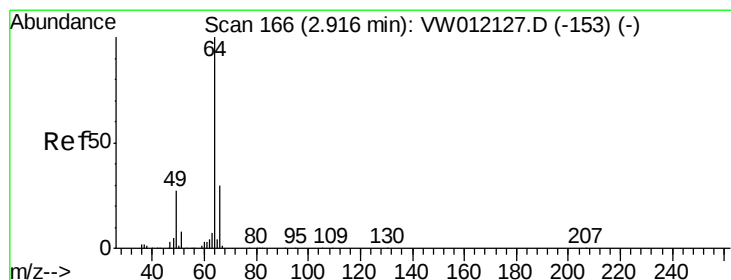
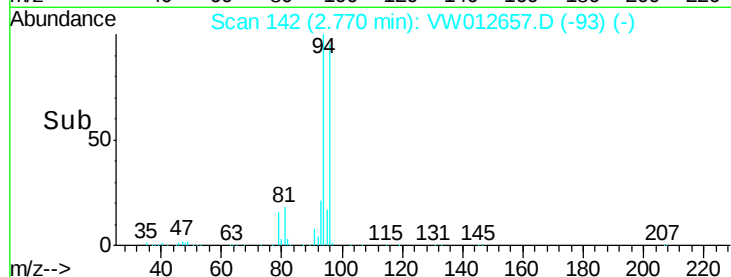
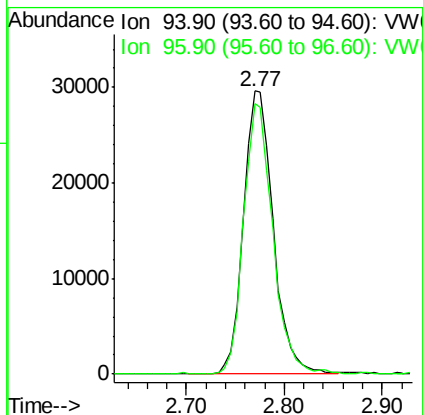
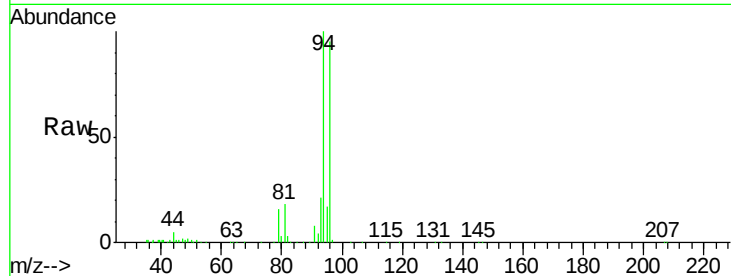
96 95.0 72.9 109.3

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



#6

Chloroethane

Concen: 45.984 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW012657.D

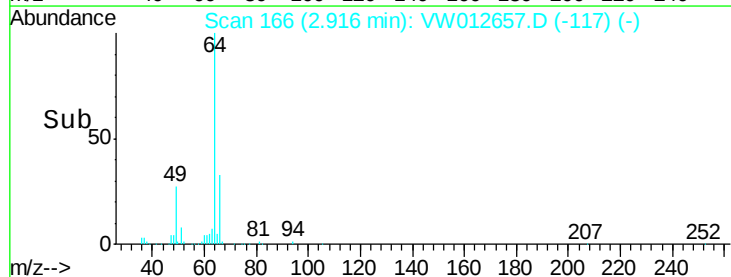
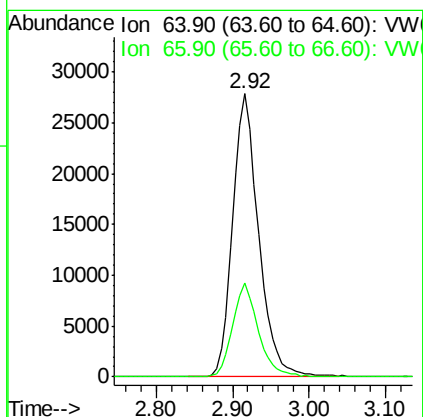
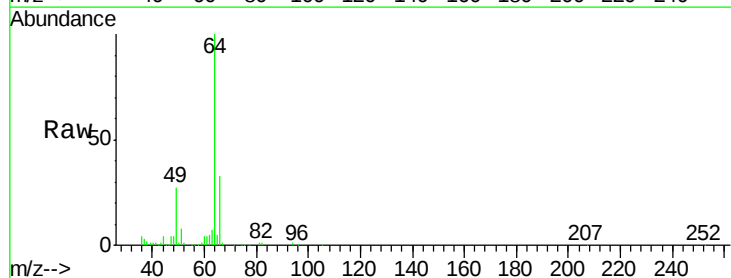
Acq: 05 Sep 2019 22:20

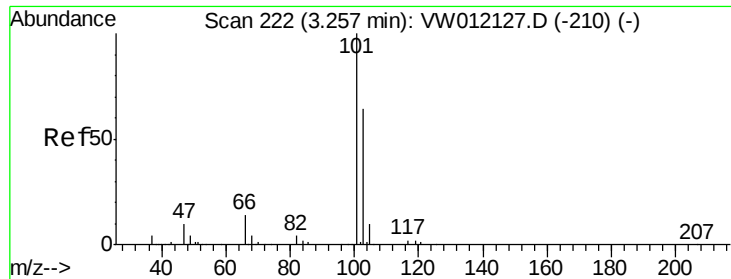
Tgt Ion: 64 Resp: 65567

Ion Ratio Lower Upper

64 100

66 33.3 23.8 35.8





#7

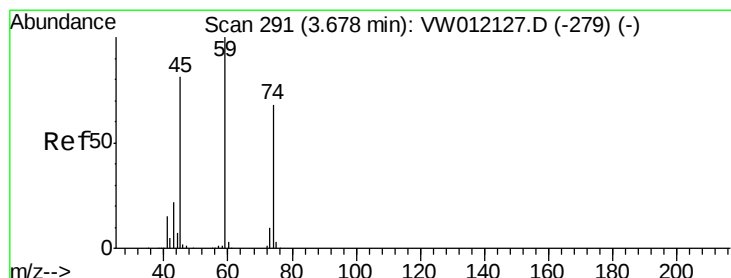
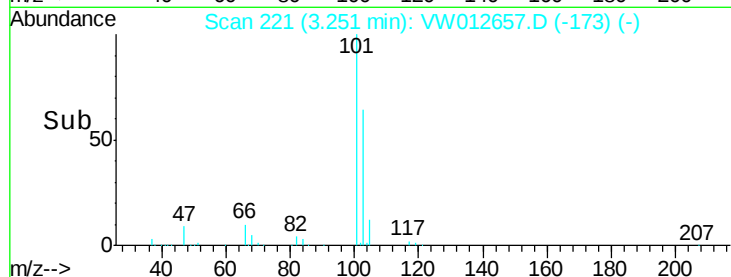
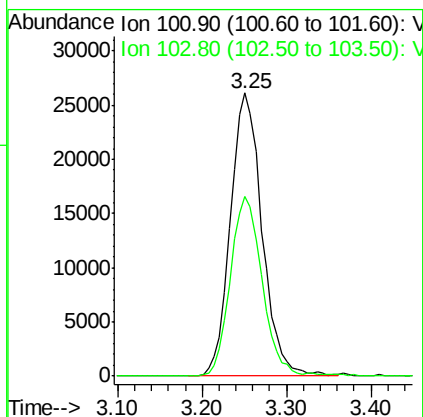
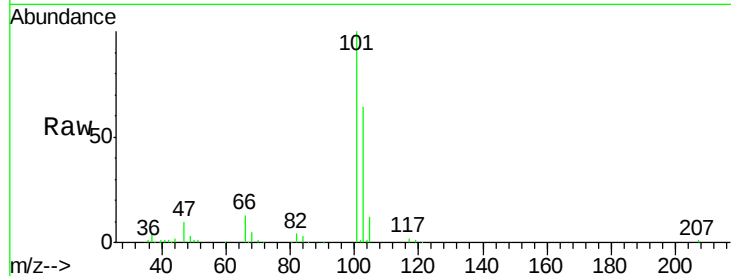
Trichlorofluoromethane  
 Concen: 52.364 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.01 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 63.5  | 51.2  | 76.8  |

Manual Integrations  
 APPROVED

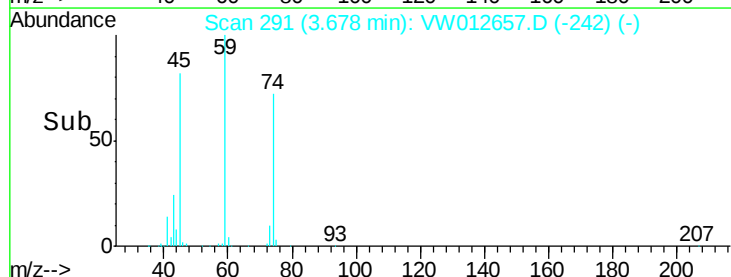
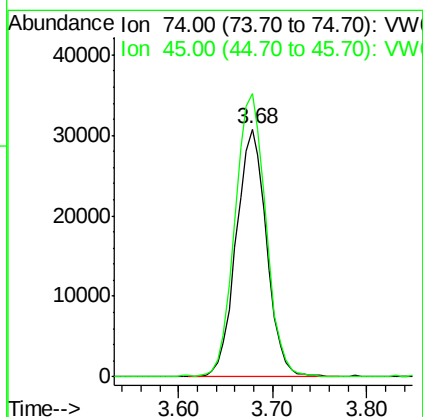
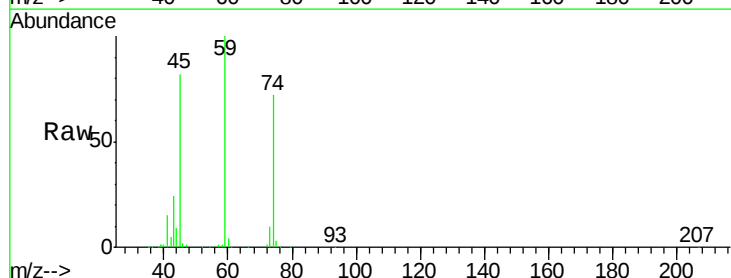
MMDadoda  
 9/6/2019 12:29:41 PM

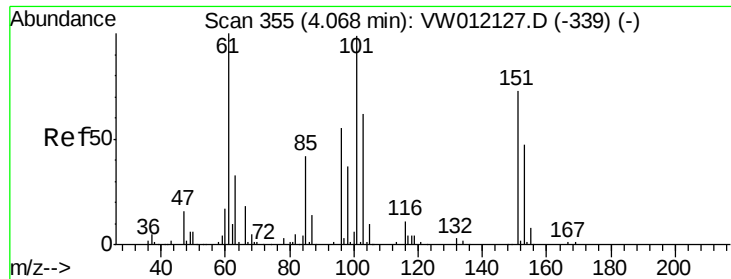


#8

Diethyl Ether  
 Concen: 57.498 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 117.2 | 59.2  | 177.6 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.948 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

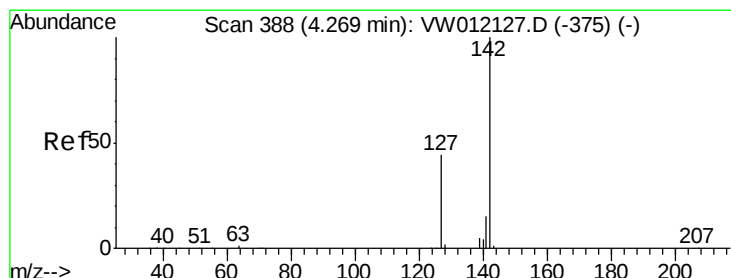
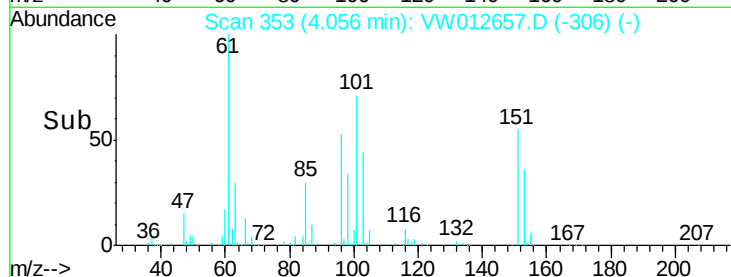
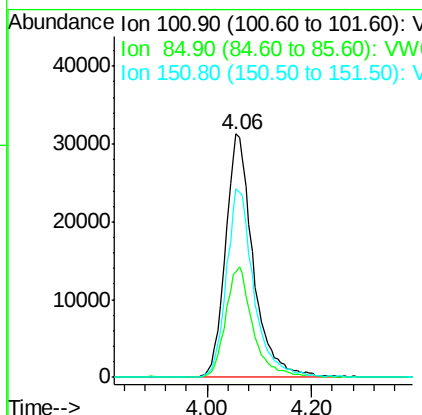
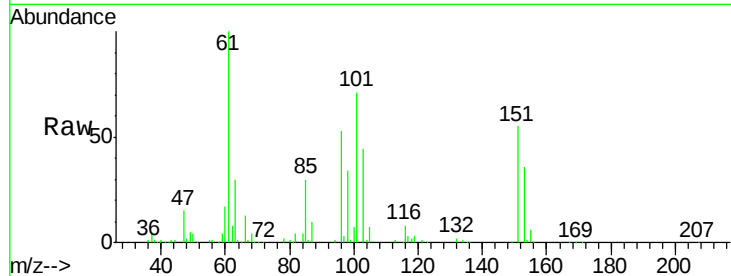
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 116384 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 44.8  | 35.8  | 53.6   |
| 151       | 76.7  | 58.6  | 87.8   |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#10

Methyl Iodide

Concen: 57.393 ug/l

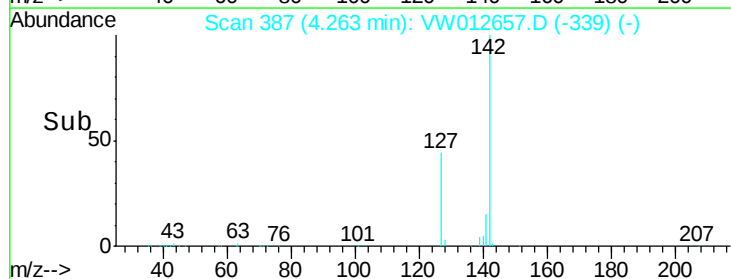
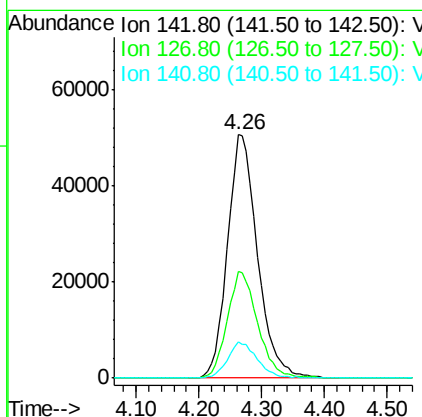
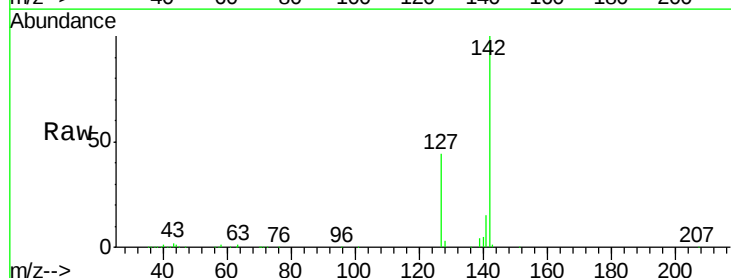
RT: 4.26 min Scan# 387

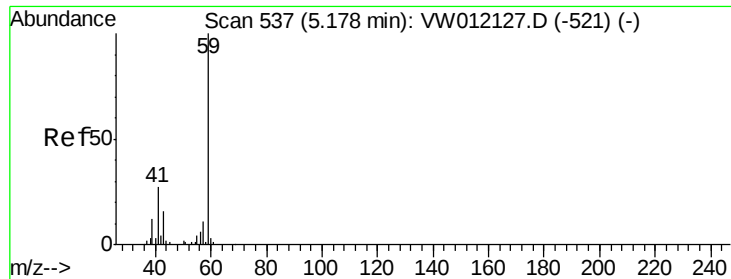
Delta R.T. -0.01 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 167526 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 44.4  | 35.5  | 53.3   |
| 141       | 14.8  | 11.8  | 17.8   |





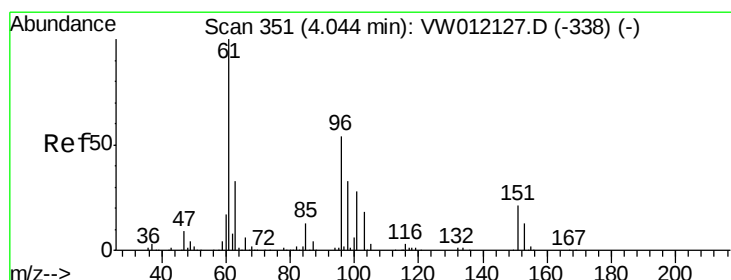
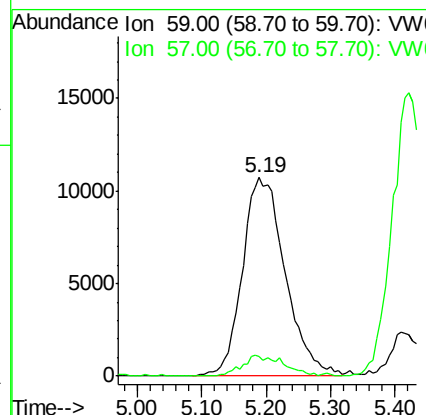
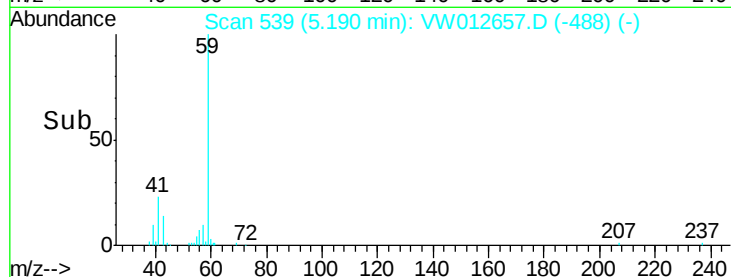
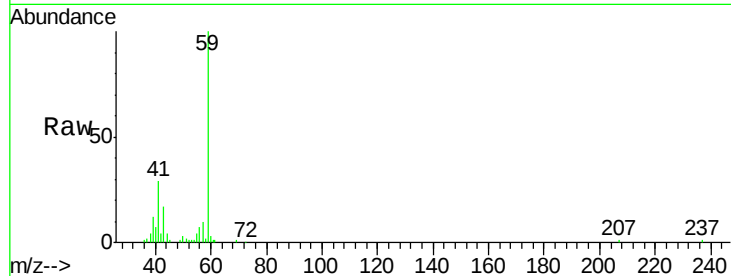
#11  
Tert butyl alcohol  
Concen: 317.814 ug/l  
RT: 5.19 min Scan# 539  
Delta R.T. 0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 10.2  | 9.0   | 13.4  |

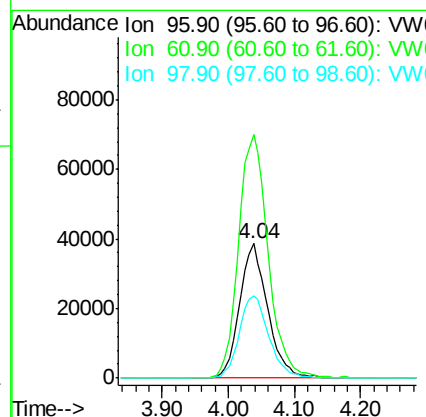
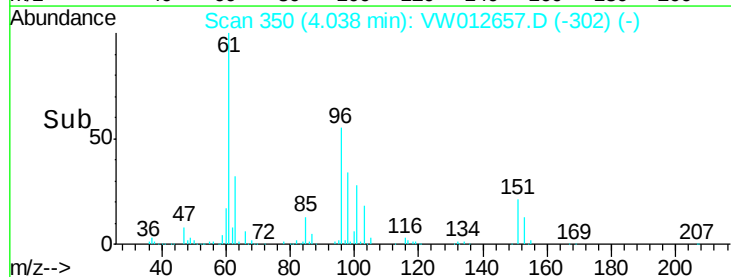
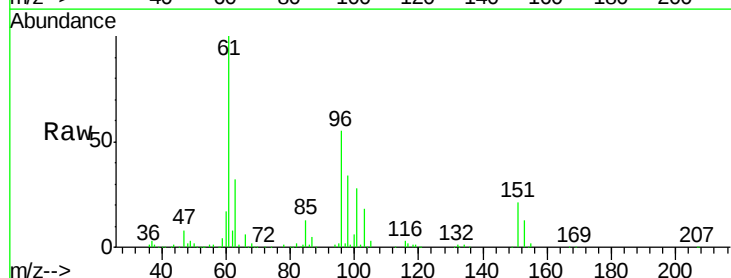
Manual Integrations  
APPROVED

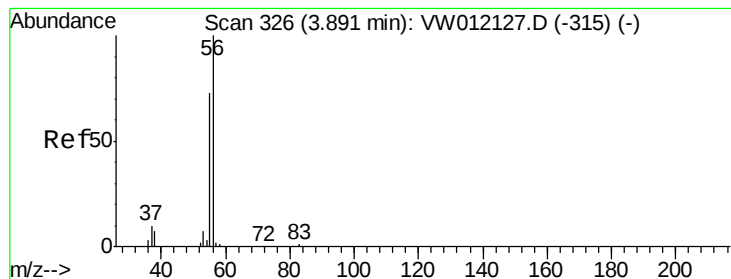
MMDadoda  
9/6/2019 12:29:41 PM



#12  
1,1-Dichloroethene  
Concen: 52.673 ug/l  
RT: 4.04 min Scan# 350  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 181.0 | 149.1 | 223.7 |
| 98      | 60.8  | 49.4  | 74.2  |





#13

Acrolein

Concen: 280.765 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 40929

Ion Ratio Lower Upper

56 100

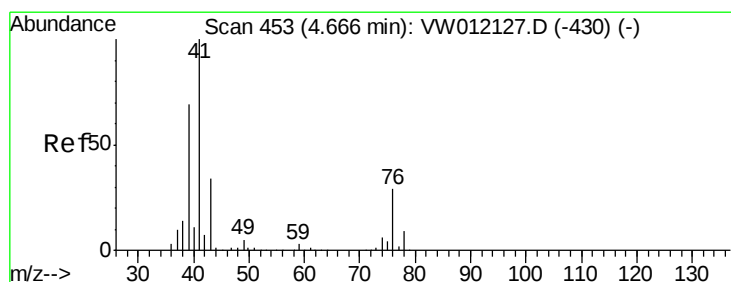
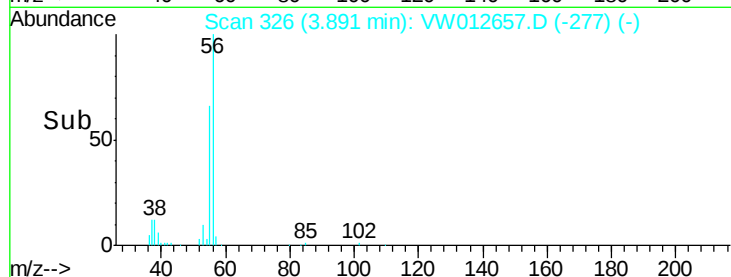
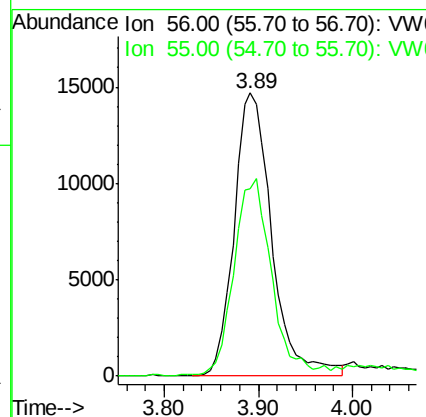
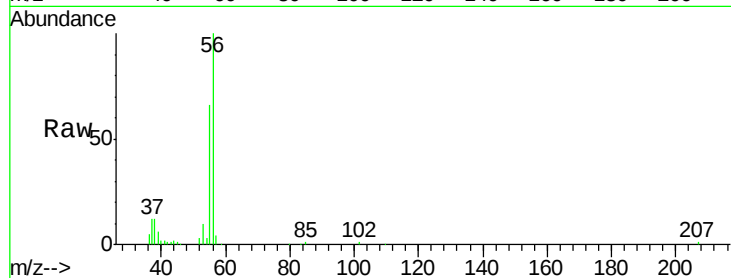
55 69.7 55.8 83.8

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



#14

Allyl chloride

Concen: 53.335 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

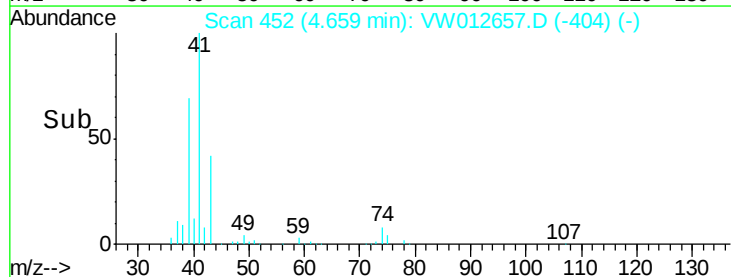
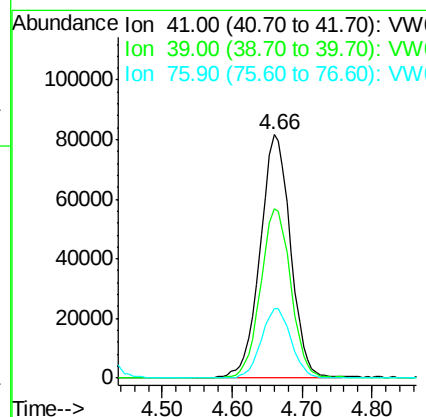
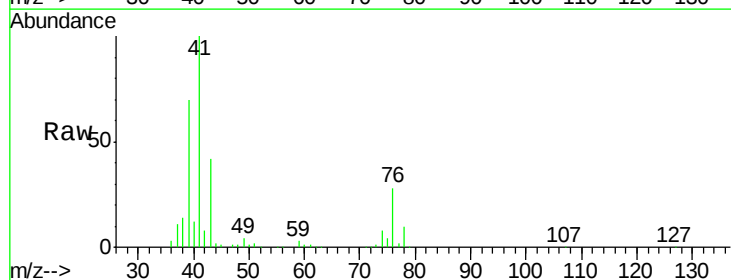
Tgt Ion: 41 Resp: 247582

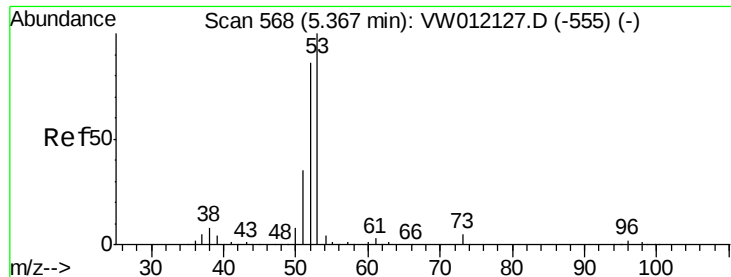
Ion Ratio Lower Upper

41 100

39 68.9 53.4 80.2

76 28.2 22.1 33.1





#15

Acrylonitrile

Concen: 307.770 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

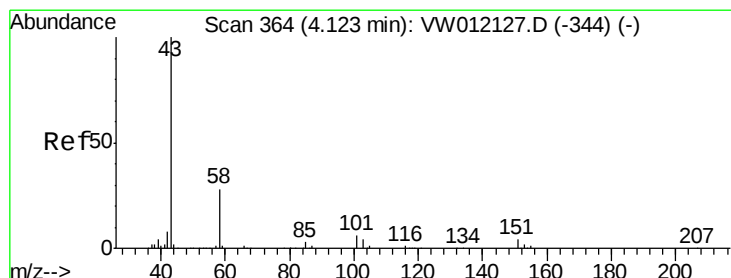
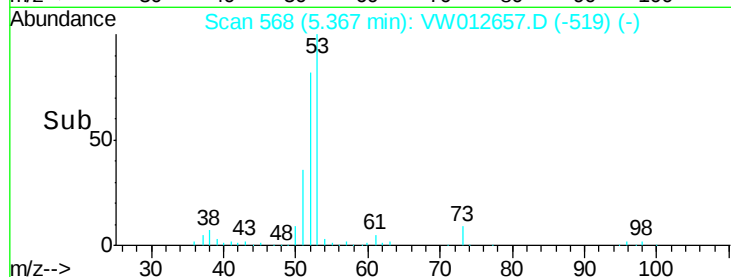
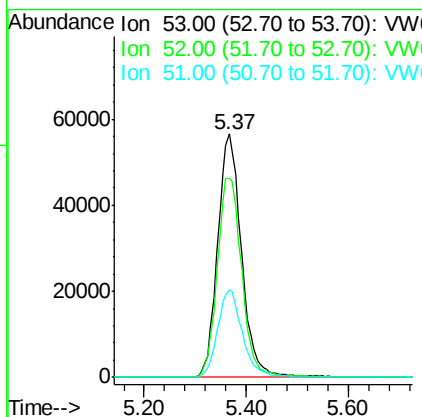
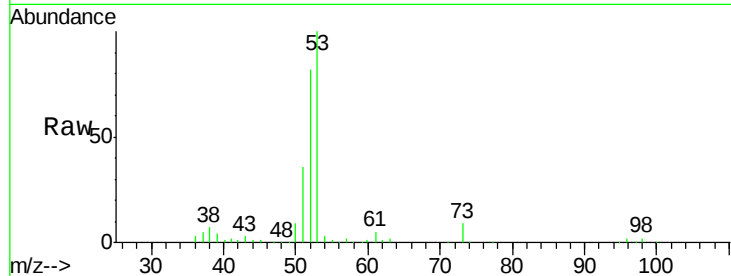
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 183774 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 83.4  | 66.7  | 100.1  |
| 51       | 37.2  | 30.1  | 45.1   |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#16

Acetone

Concen: 255.452 ug/l

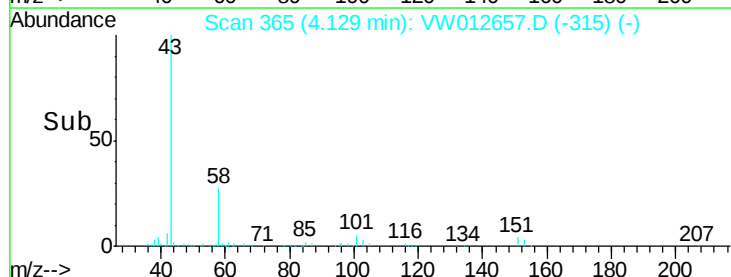
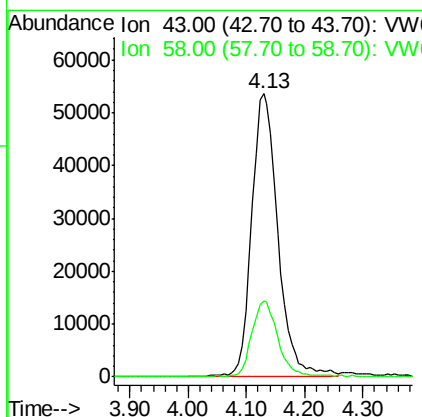
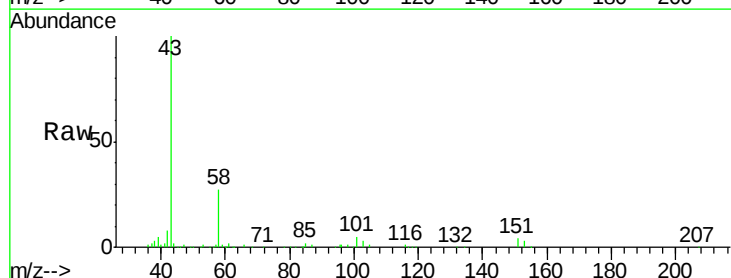
RT: 4.13 min Scan# 365

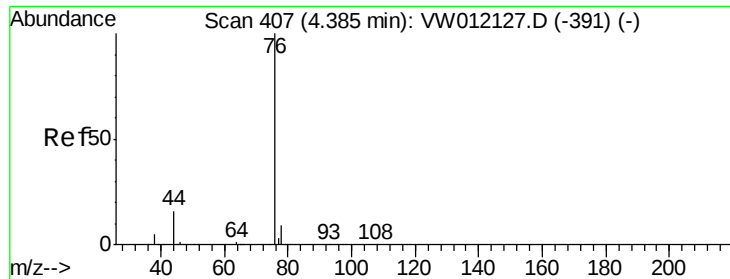
Delta R.T. 0.01 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 168038 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 26.7  | 22.4  | 33.6   |





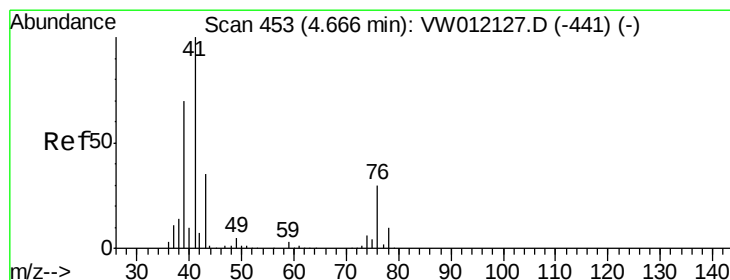
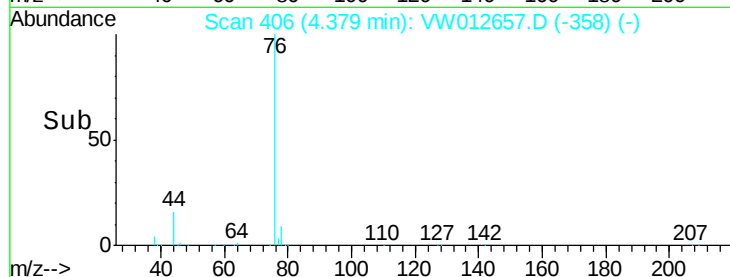
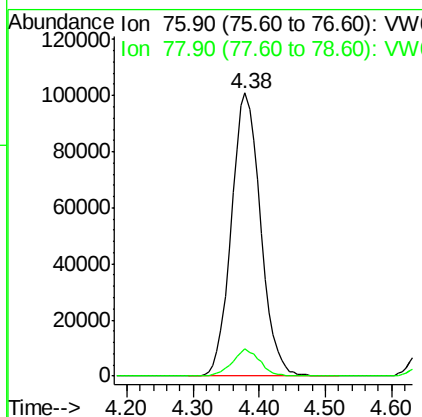
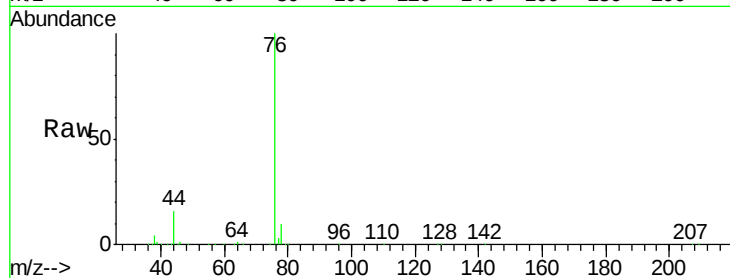
#17  
Carbon Disulfide  
Concen: 47.058 ug/l  
RT: 4.38 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.8   | 7.3   | 10.9  |

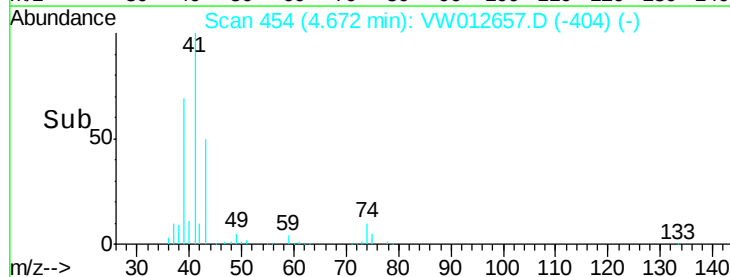
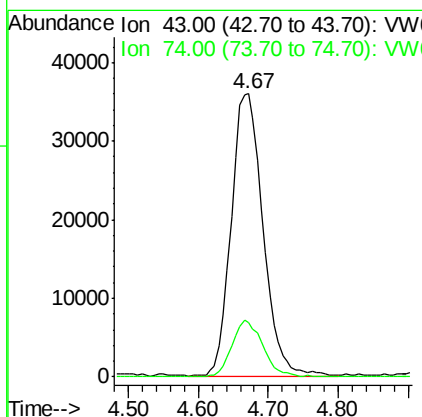
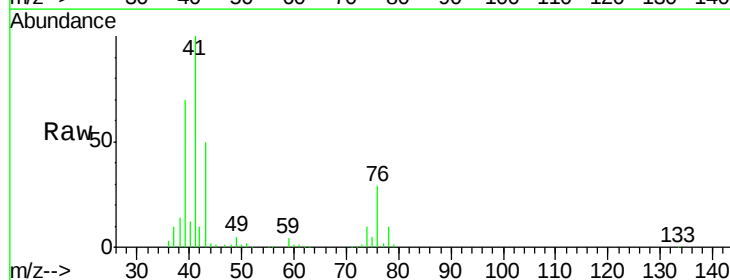
Manual Integrations  
APPROVED

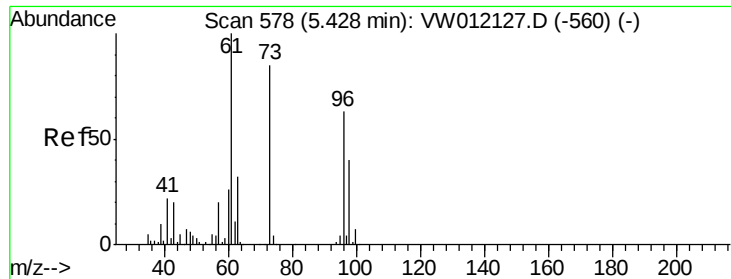
MMDadoda  
9/6/2019 12:29:41 PM



#18  
Methyl Acetate  
Concen: 69.512 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 19.5  | 15.7  | 23.5  |





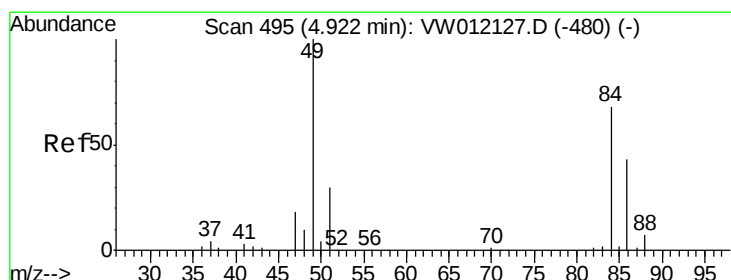
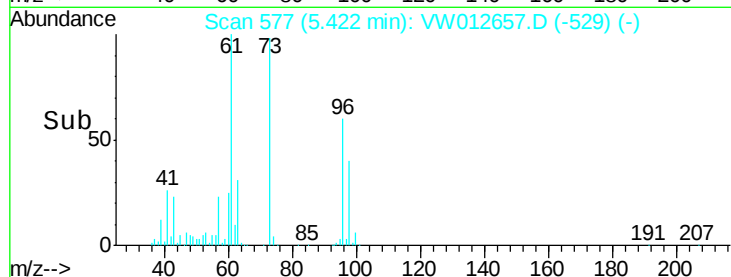
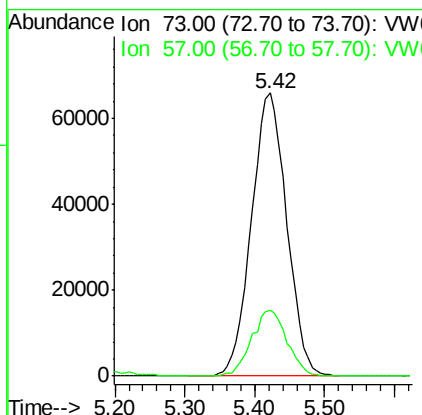
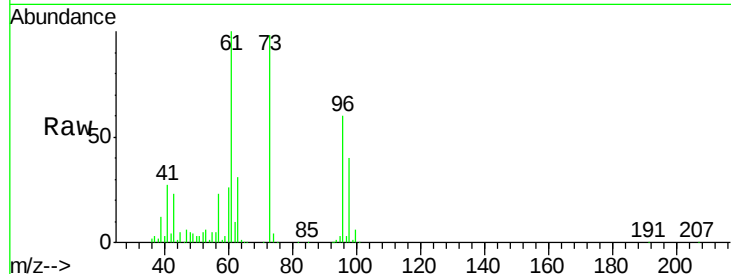
#19  
Methvl tert-butvl Ether  
Concen: 65.642 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion: 73 Resp: 230497  
Ion Ratio Lower Upper  
73 100  
57 23.2 18.9 28.3

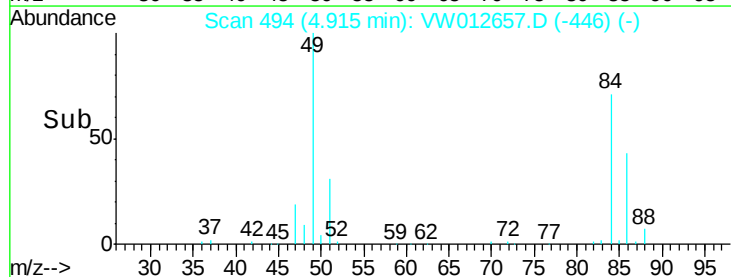
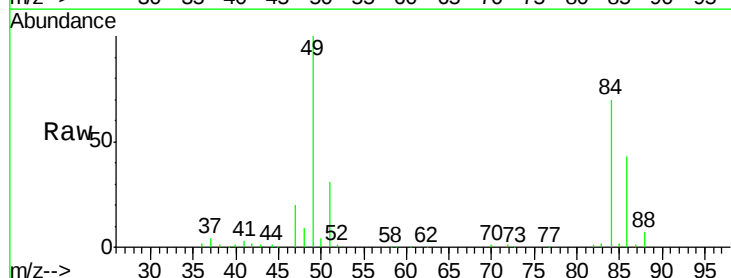
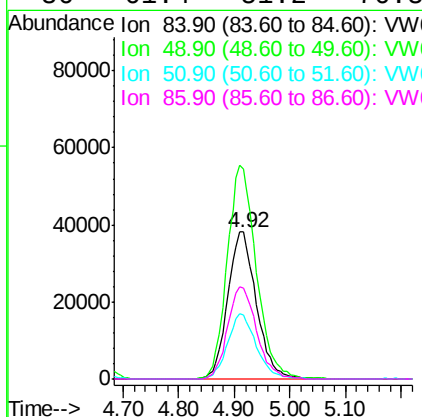
Manual Integrations  
APPROVED

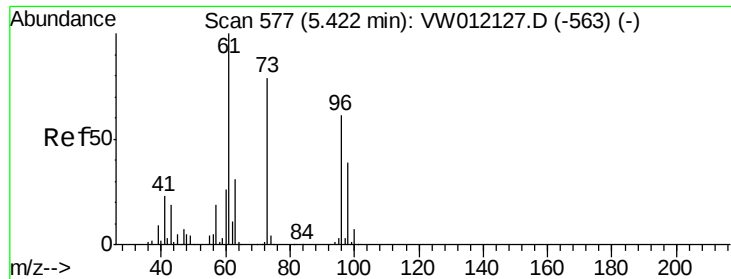
MMDadoda  
9/6/2019 12:29:41 PM



#20  
Methylene Chloride  
Concen: 54.696 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Tgt Ion: 84 Resp: 136017  
Ion Ratio Lower Upper  
84 100  
49 142.4 117.8 176.8  
51 43.9 35.6 53.4  
86 61.4 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 54.427 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

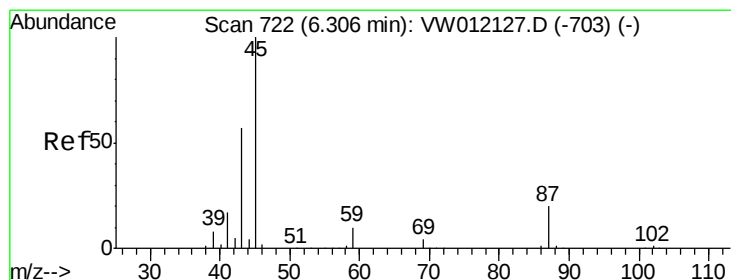
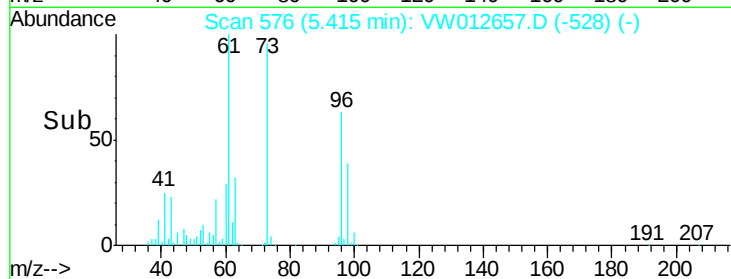
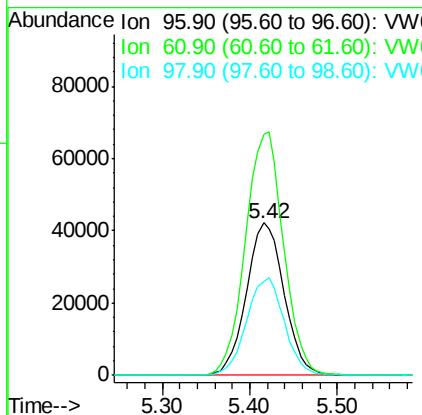
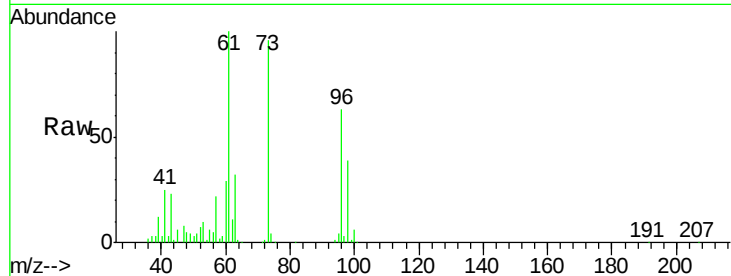
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 126730 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 158.3 | 131.4 | 197.0  |
| 98       | 61.4  | 51.4  | 77.0   |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#22

Diisopropyl ether

Concen: 57.361 ug/l

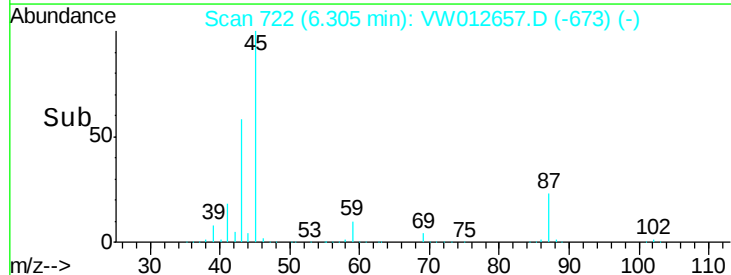
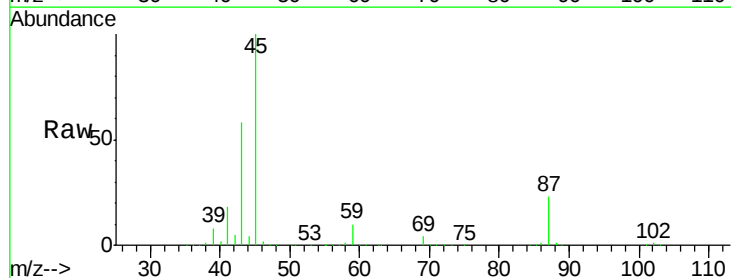
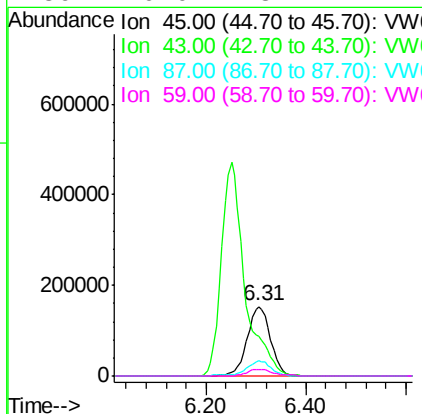
RT: 6.31 min Scan# 722

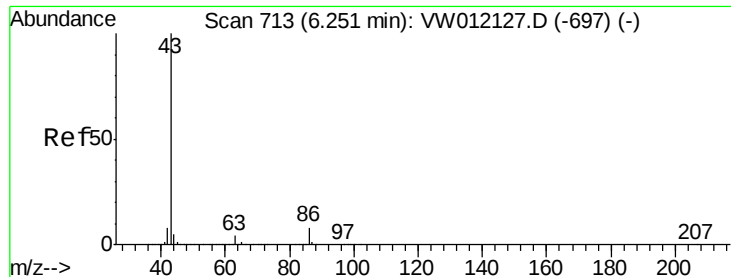
Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 493556 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 57.7  | 45.5  | 68.3   |
| 87       | 22.9  | 16.1  | 24.1   |
| 59       | 10.0  | 8.2   | 12.2   |





#23

Vinyl Acetate

Concen: 291.053 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 1541220

Ion Ratio Lower Upper

43 100

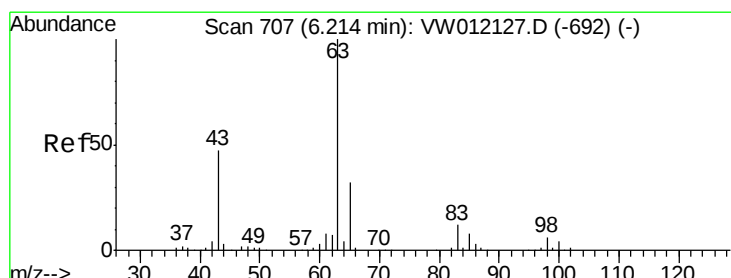
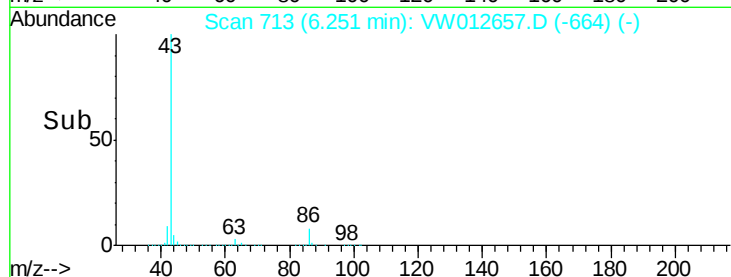
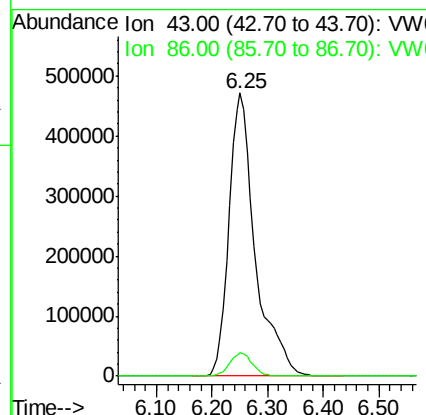
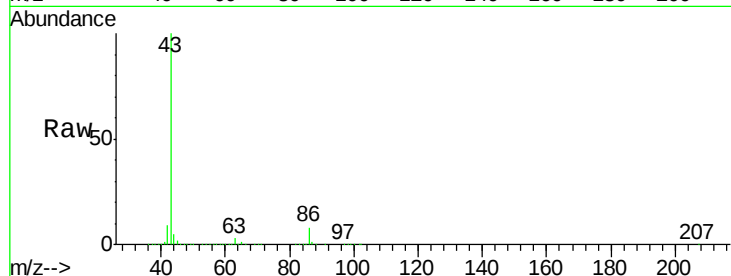
86 8.4 6.5 9.7

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



#24

1,1-Dichloroethane

Concen: 57.199 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

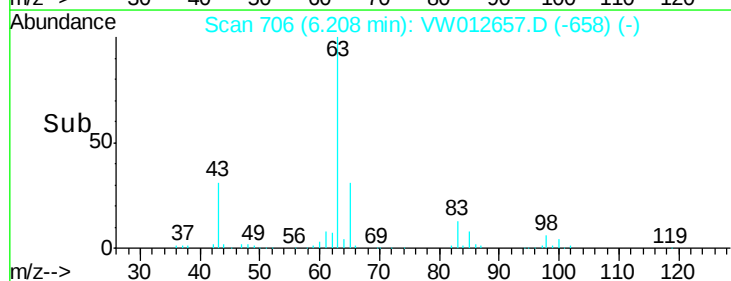
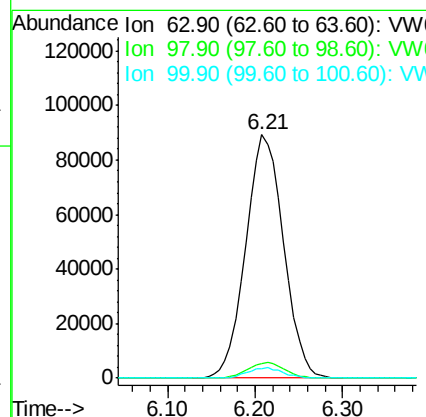
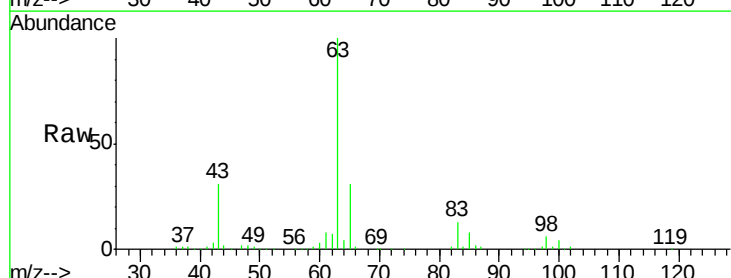
Tgt Ion: 63 Resp: 267975

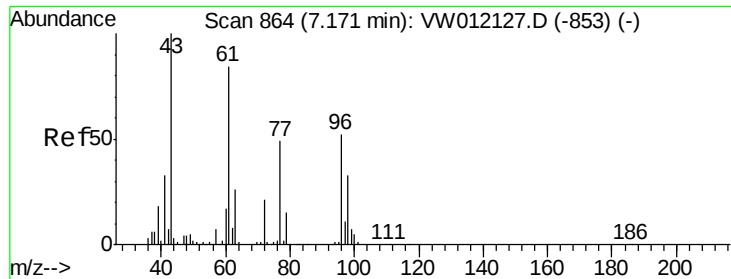
Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.2

100 3.7 2.0 6.0





#25

2-Butanone

Concen: 282.976 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 252948

Ion Ratio Lower Upper

43 100

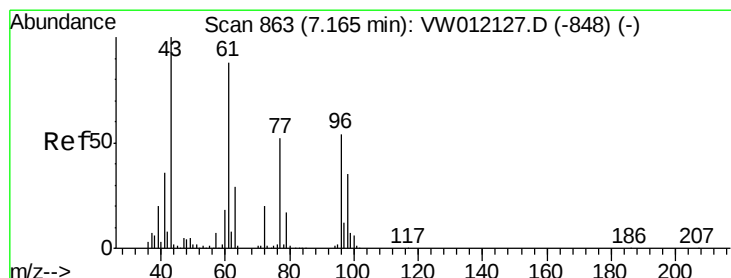
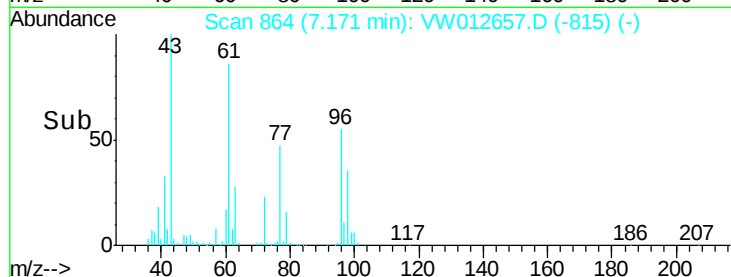
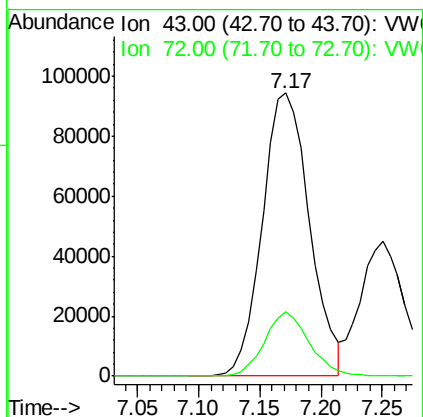
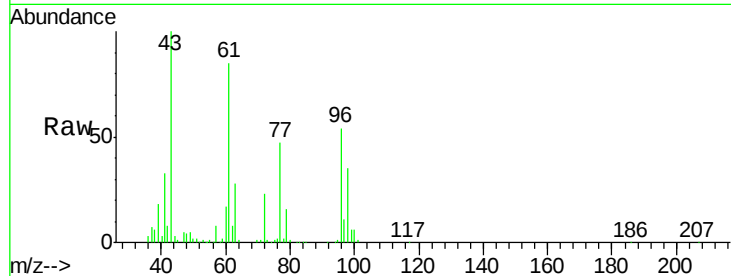
72 22.7 16.6 24.8

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



#26

2,2-Dichloropropane

Concen: 55.002 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012657.D

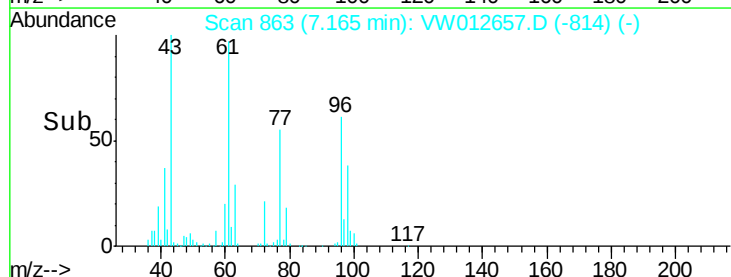
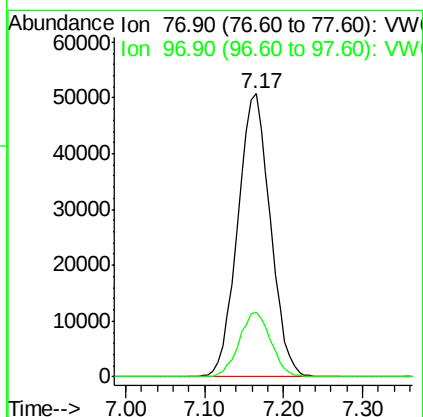
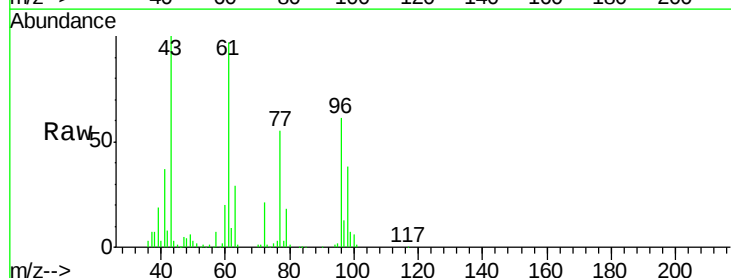
Acq: 05 Sep 2019 22:20

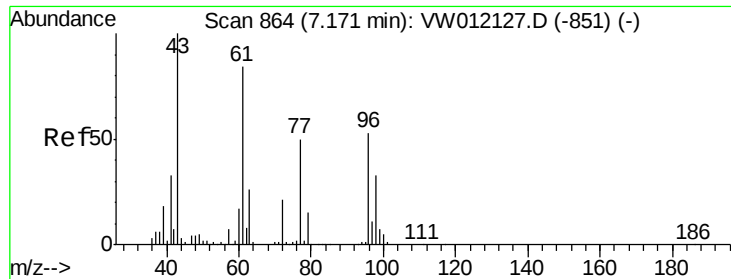
Tgt Ion: 77 Resp: 145852

Ion Ratio Lower Upper

77 100

97 22.2 11.1 33.1





#27

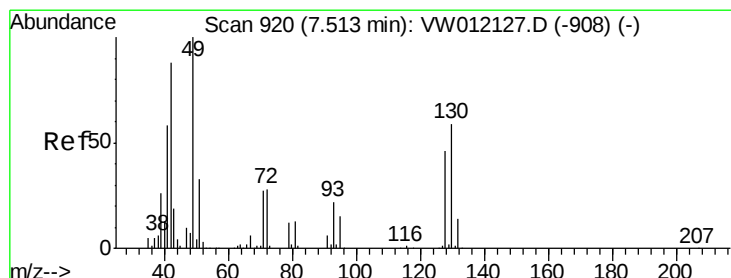
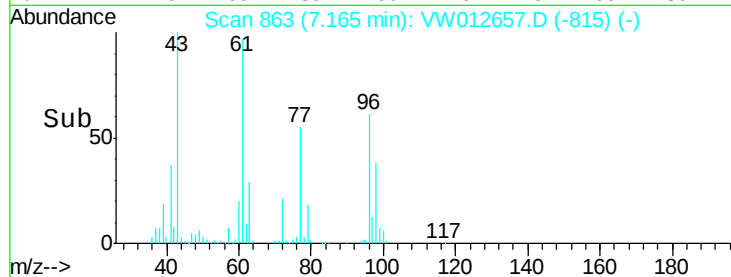
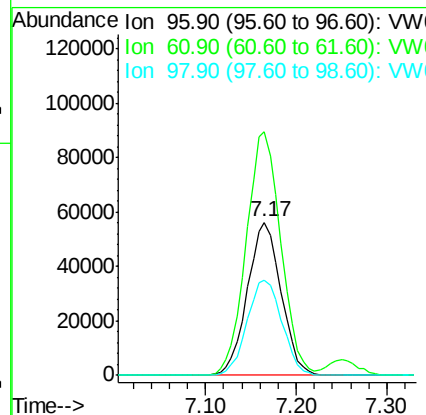
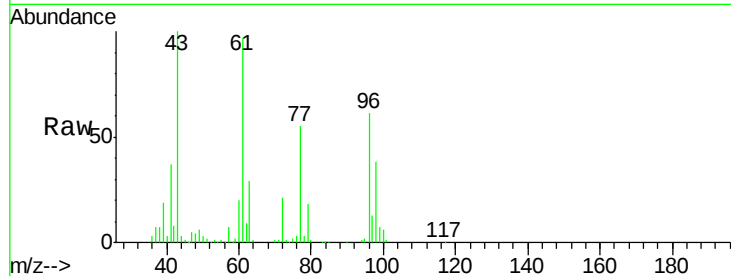
cis-1,2-Dichloroethene  
 Concen: 58.021 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 163.4 | 0.0   | 326.6 |
| 98      | 64.9  | 0.0   | 127.4 |

Manual Integrations  
 APPROVED

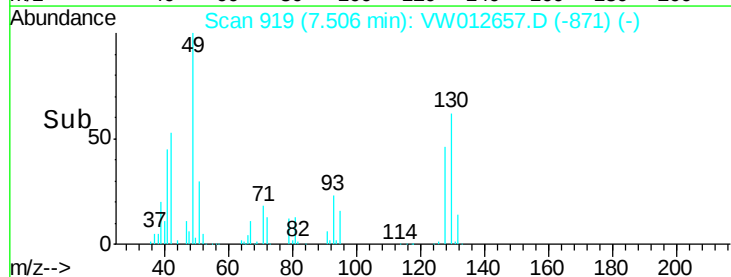
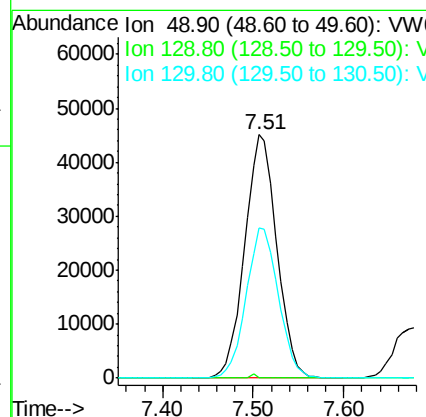
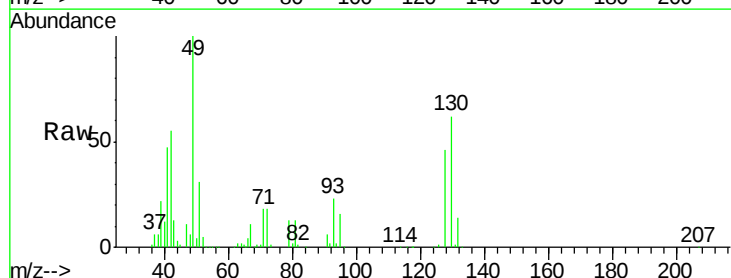
MMDadoda  
 9/6/2019 12:29:41 PM

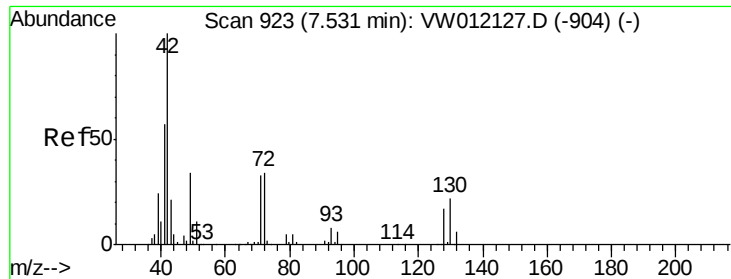


#28

Bromochloromethane  
 Concen: 54.113 ug/l  
 RT: 7.51 min Scan# 919  
 Delta R.T. -0.01 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.3   | 0.0   | 1.4   |
| 130     | 62.2  | 45.5  | 68.3  |





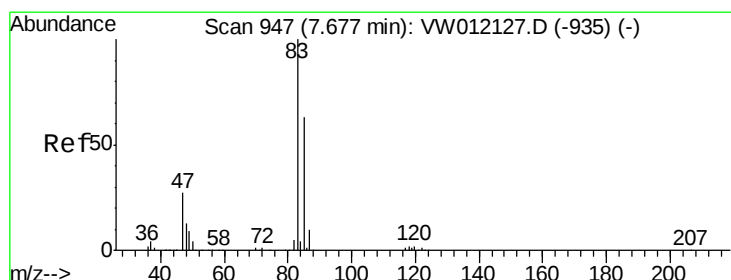
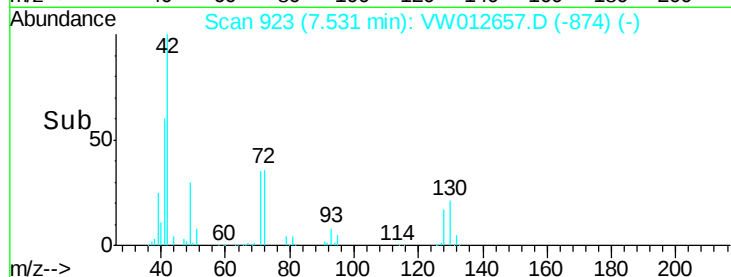
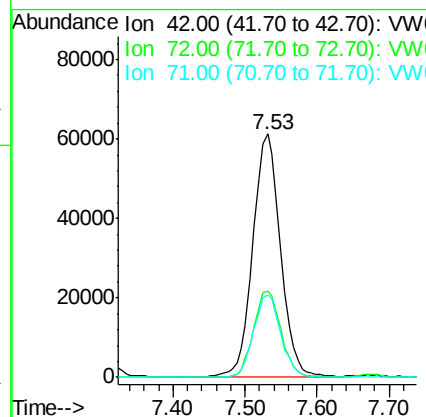
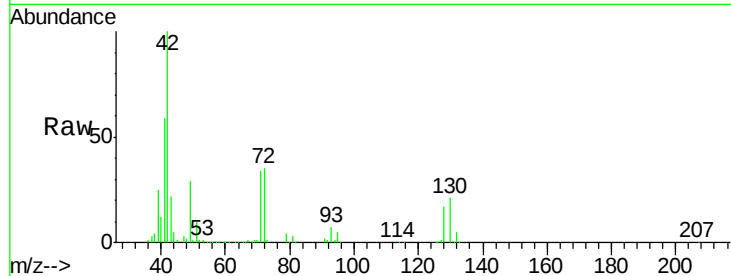
#29  
Tetrahydrofuran  
Concen: 304.309 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 163199 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 35.4  | 27.3  | 40.9   |
| 71       | 33.8  | 25.5  | 38.3   |

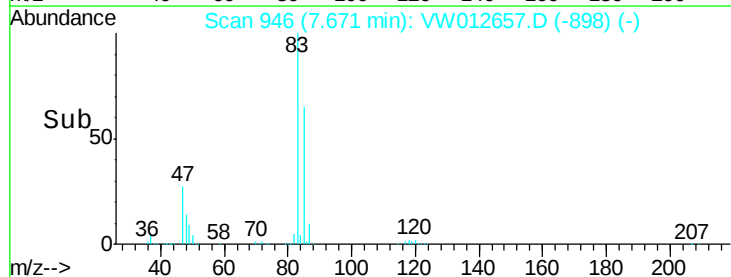
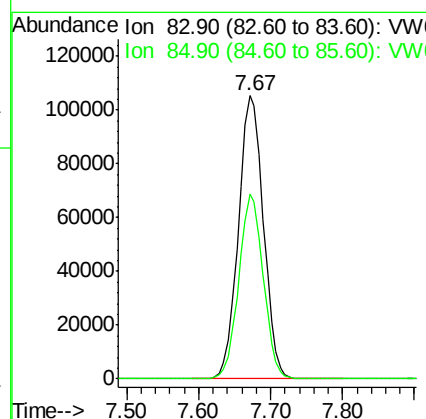
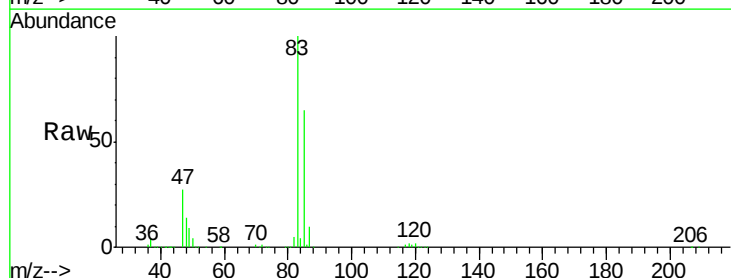
Manual Integrations  
APPROVED

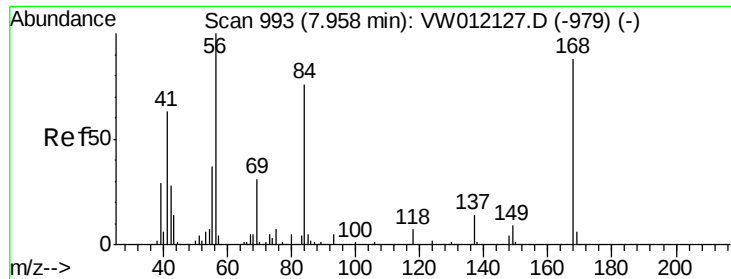
MMDadoda  
9/6/2019 12:29:41 PM



#30  
Chloroform  
Concen: 59.208 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 253780 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 65.1  | 50.6  | 76.0   |





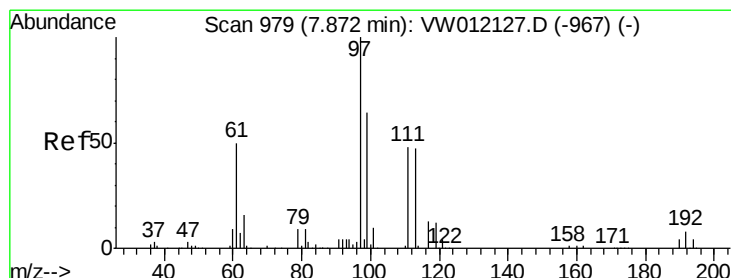
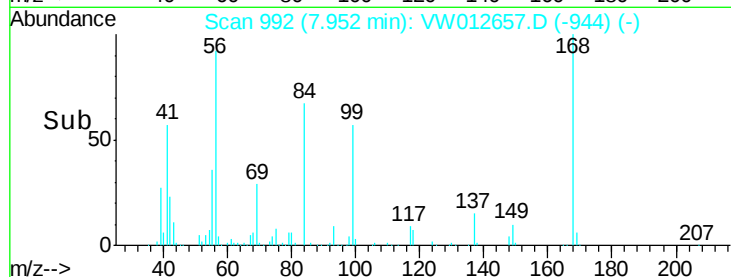
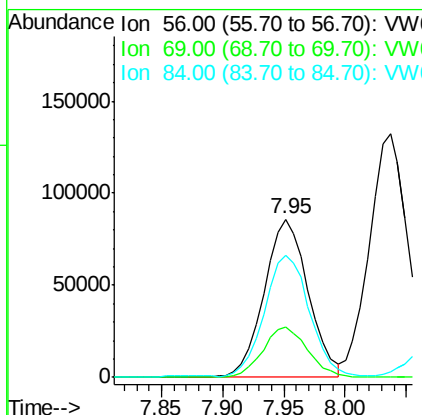
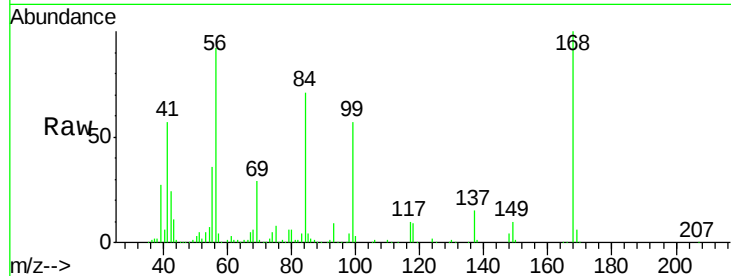
#31  
Cyclohexane  
Concen: 46.567 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 56    | Resp: | 215847 |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 31.7  | 24.9  | 37.3   |
| 84        | 75.4  | 60.6  | 90.8   |

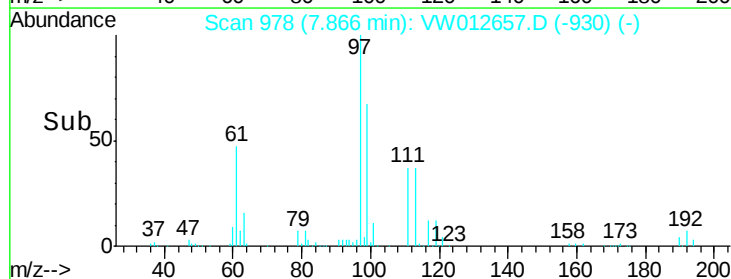
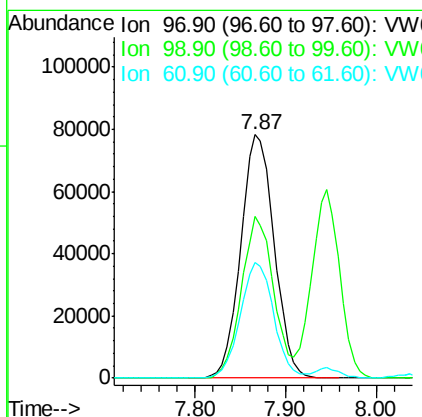
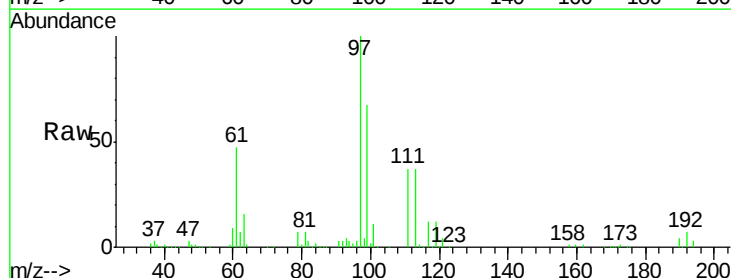
Manual Integrations  
APPROVED

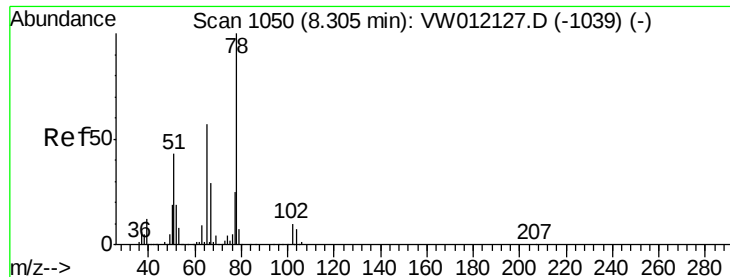
MMDadoda  
9/6/2019 12:29:41 PM



#32  
1,1,1-Trichloroethane  
Concen: 58.871 ug/l  
RT: 7.87 min Scan# 978  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 199619 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.4  | 51.4  | 77.0   |
| 61        | 47.9  | 39.5  | 59.3   |





#33

1,2-Dichloroethane-d4

Concen: 53.146 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 136765

Ion Ratio Lower Upper

65 100

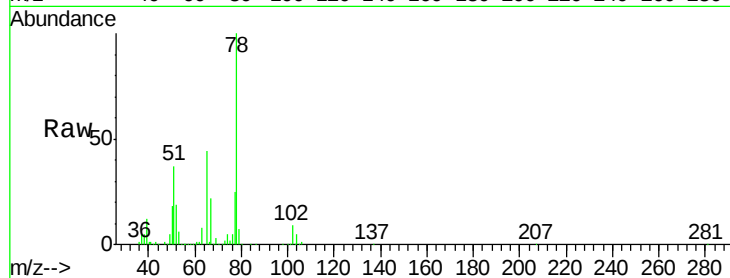
67 51.0 0.0 102.6

Manual Integrations

APPROVED

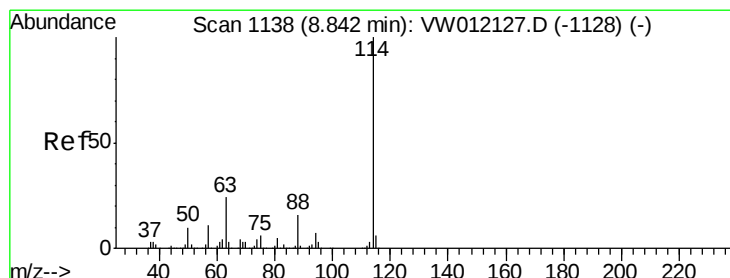
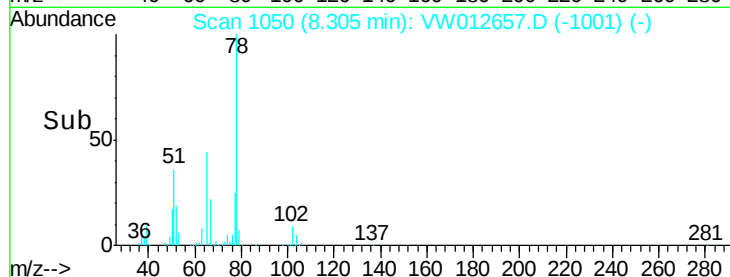
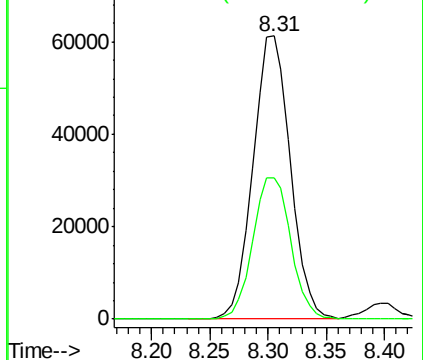
MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

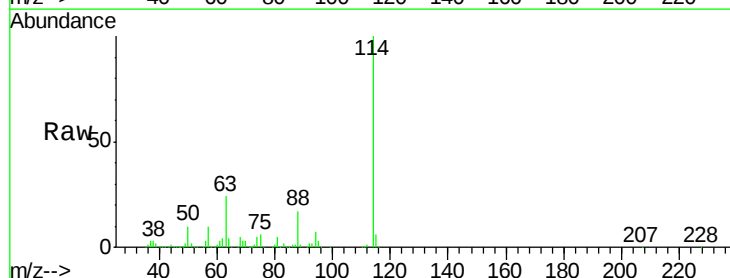
Tgt Ion: 114 Resp: 338034

Ion Ratio Lower Upper

114 100

63 23.5 0.0 48.6

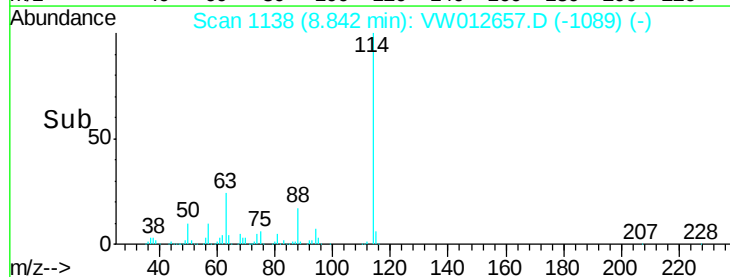
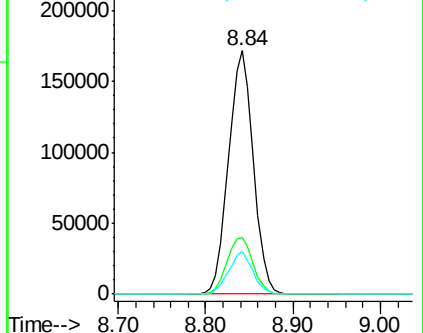
88 17.5 0.0 32.2

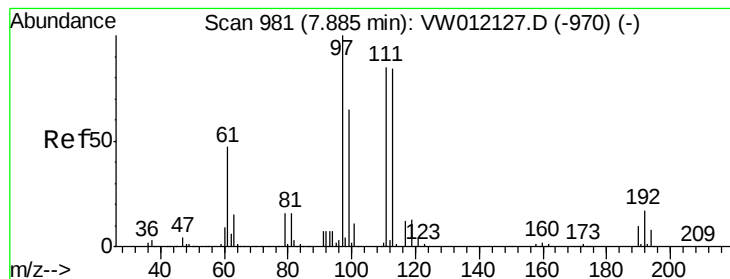


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 54.078 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

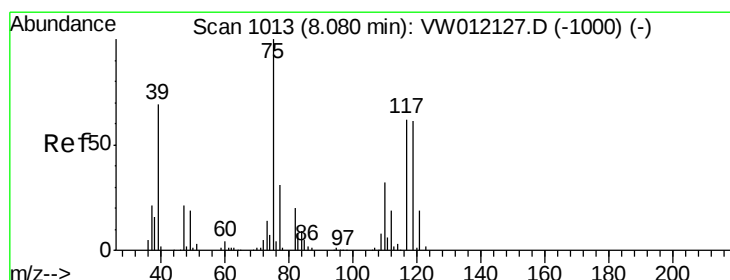
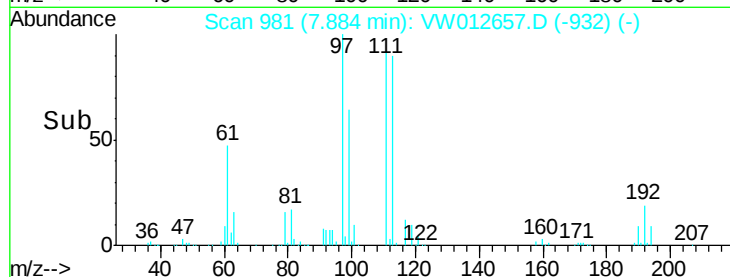
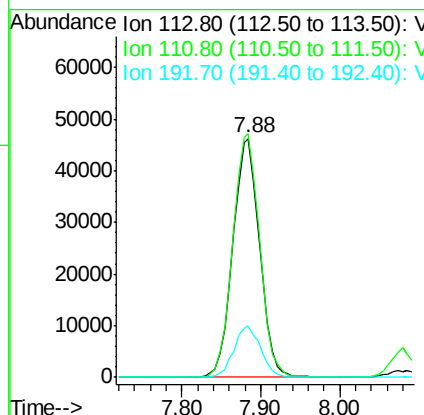
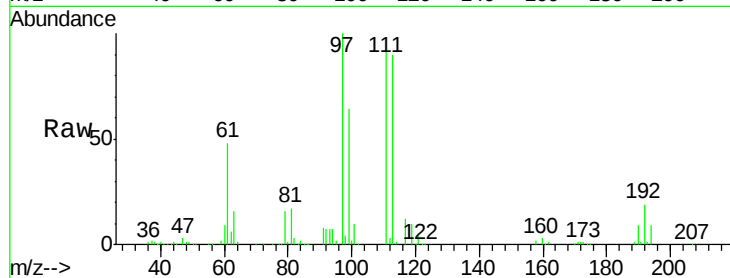
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 109116 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.2 | 82.7  | 124.1  |
| 192       | 21.3  | 16.2  | 24.2   |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#36

1,1-Dichloropropene

Concen: 55.496 ug/l

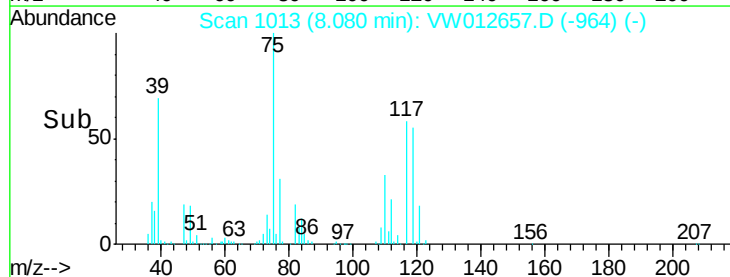
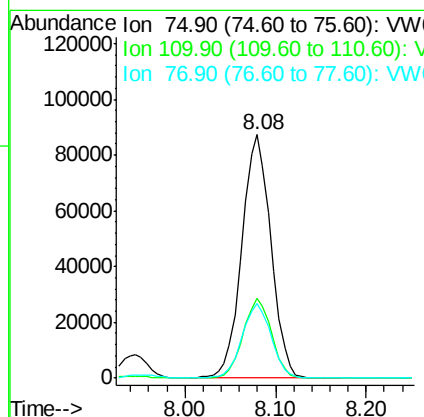
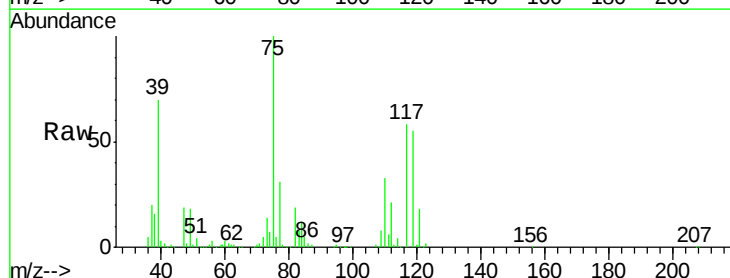
RT: 8.08 min Scan# 1013

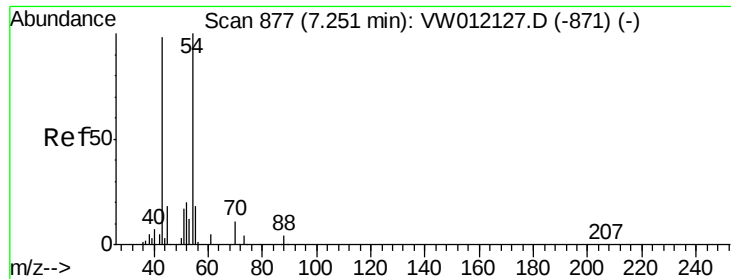
Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 193857 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 31.8  | 15.6  | 46.8   |
| 77        | 30.9  | 24.6  | 36.8   |





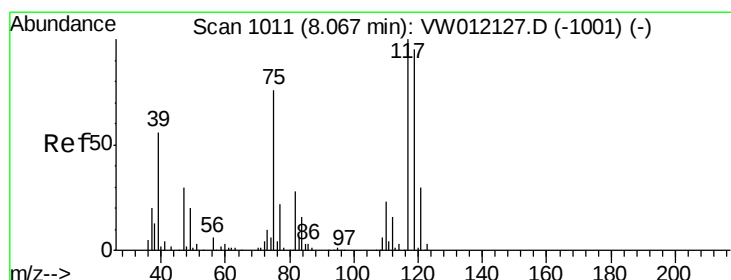
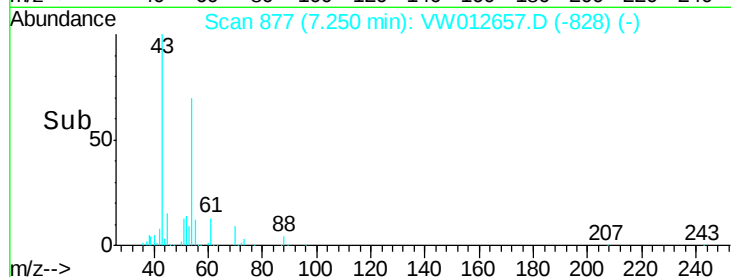
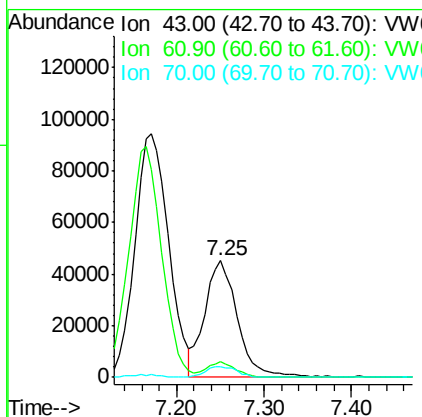
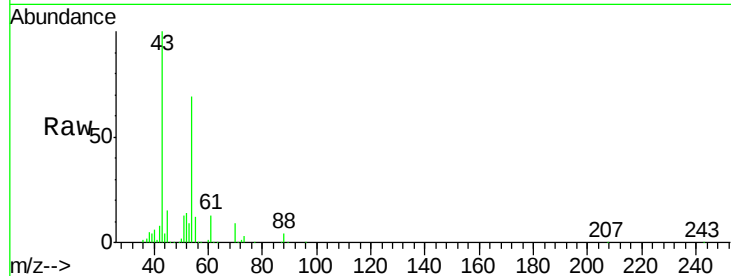
#37  
Ethyl Acetate  
Concen: 60.615 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 12.3  | 9.2   | 13.8  |
| 70      | 9.0   | 6.9   | 10.3  |

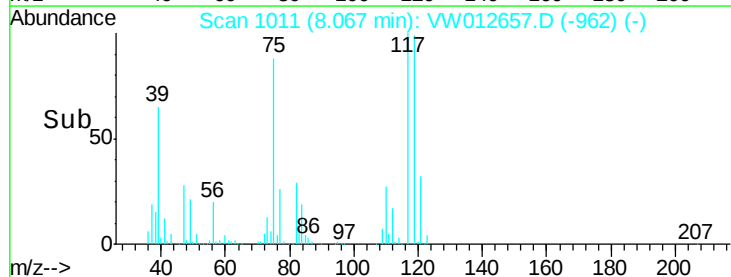
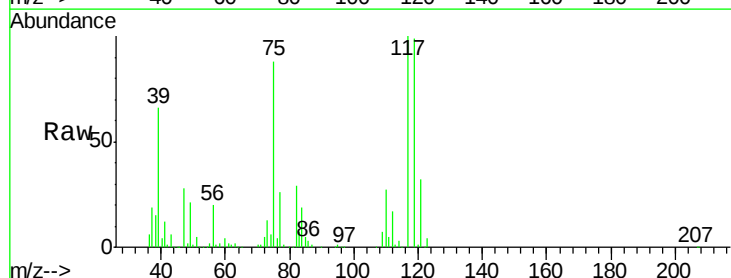
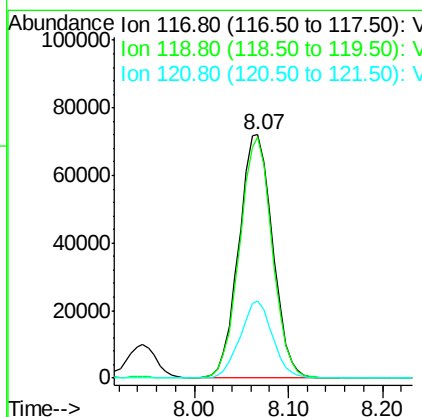
Manual Integrations  
APPROVED

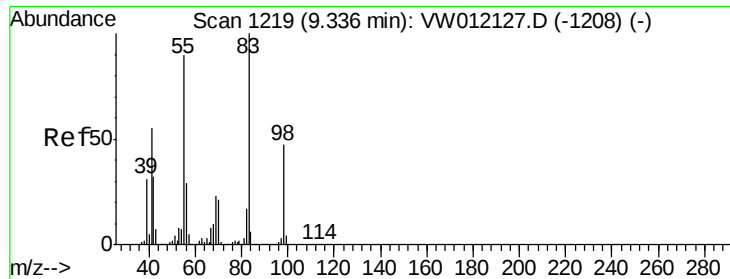
MMDadoda  
9/6/2019 12:29:41 PM



#38  
Carbon Tetrachloride  
Concen: 59.814 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 99.2  | 76.2  | 114.2 |
| 121     | 31.8  | 23.8  | 35.8  |





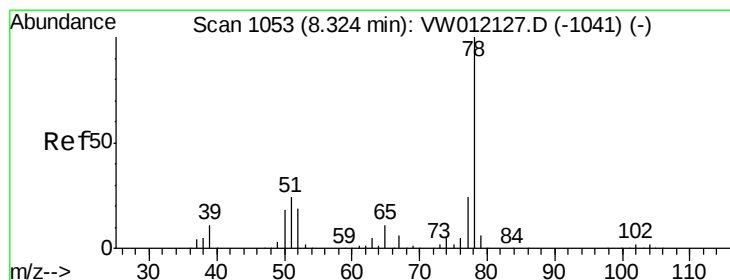
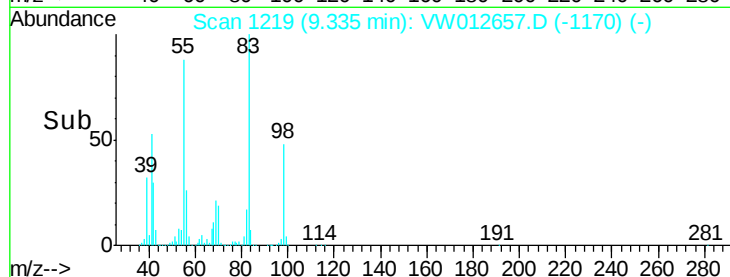
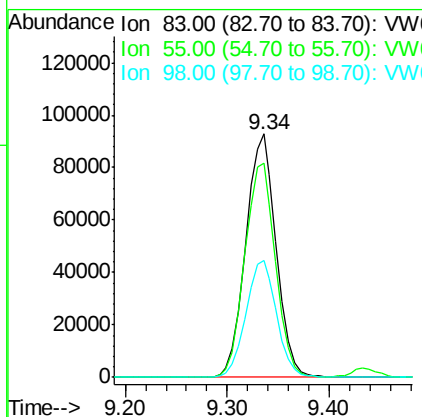
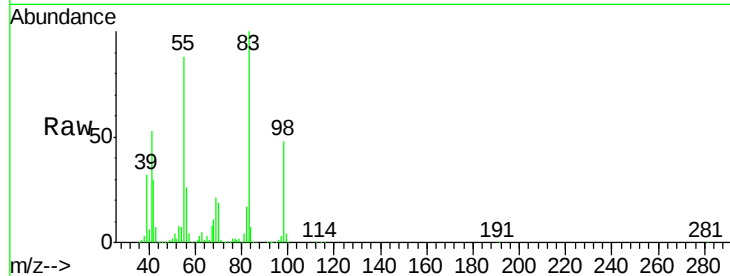
#39  
Methvlcvclohexane  
Concen: 48.901 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 87.9  | 71.8  | 107.8 |
| 98      | 48.2  | 37.8  | 56.8  |

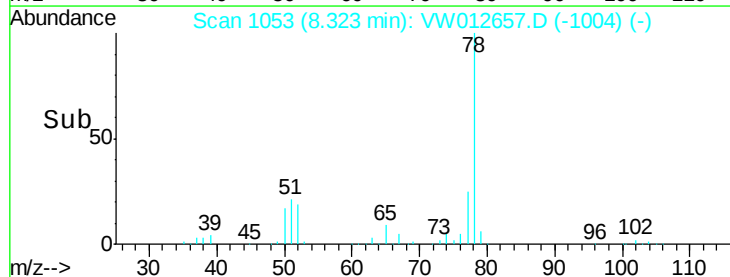
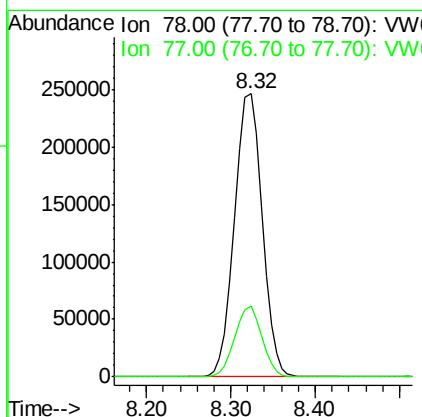
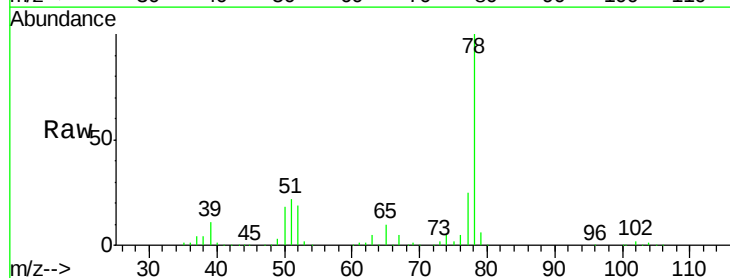
Manual Integrations  
APPROVED

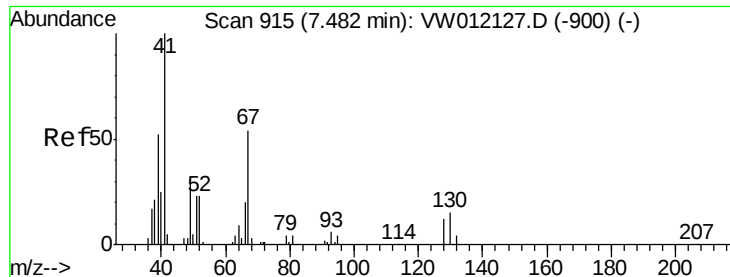
MMDadoda  
9/6/2019 12:29:41 PM



#40  
Benzene  
Concen: 57.384 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 25.0  | 19.5  | 29.3  |





#41

Methacrylonitrile

Concen: 64.289 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 72328

Ion Ratio Lower Upper

41 100

39 57.4 45.8 68.8

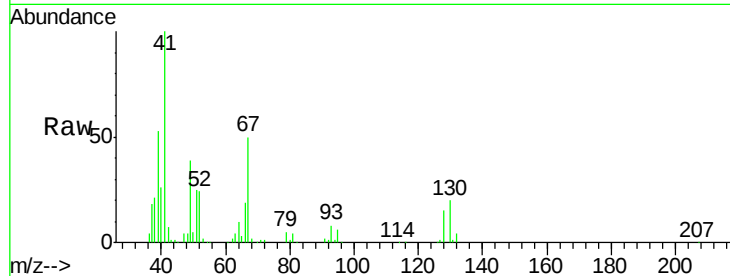
67 57.5 46.2 69.4

52 26.9 21.0 31.6

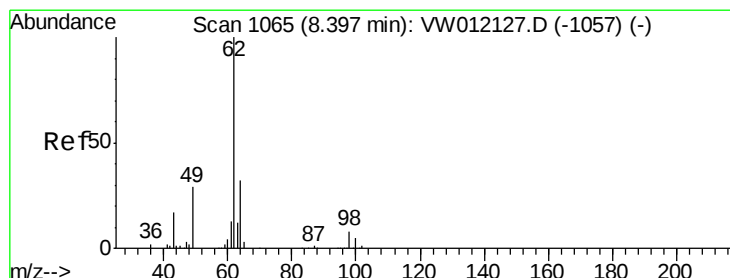
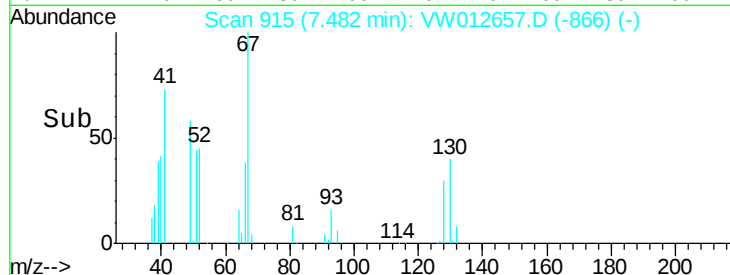
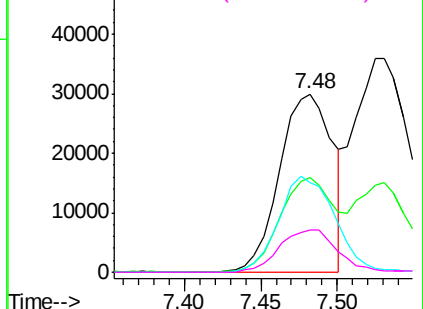
Manual Integrations  
APPROVED

MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 63.187 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW012657.D

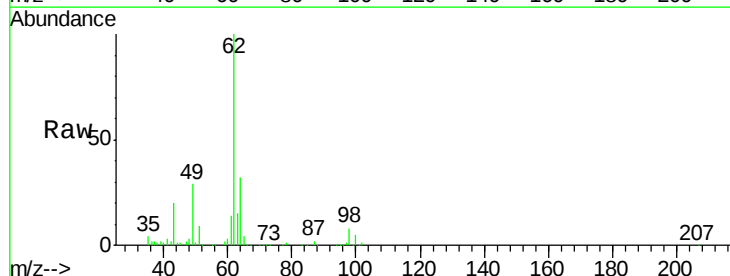
Acq: 05 Sep 2019 22:20

Tgt Ion: 62 Resp: 188892

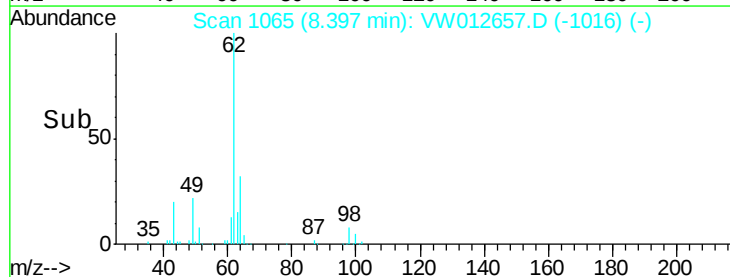
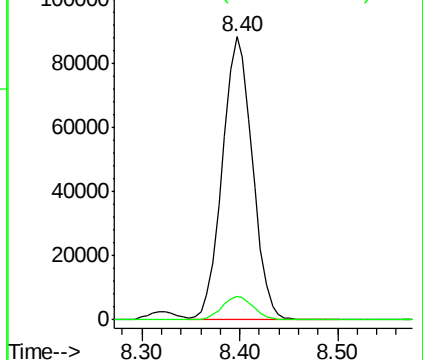
Ion Ratio Lower Upper

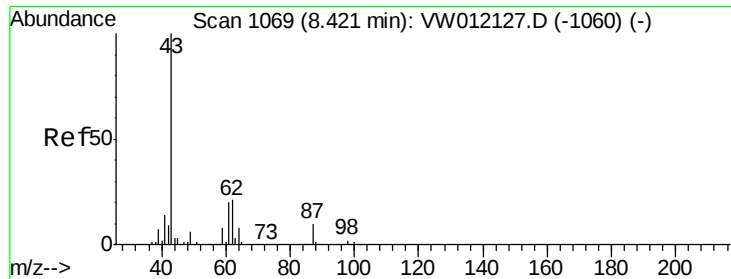
62 100

98 8.5 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VW  
Ion 97.90 (97.60 to 98.60): VW





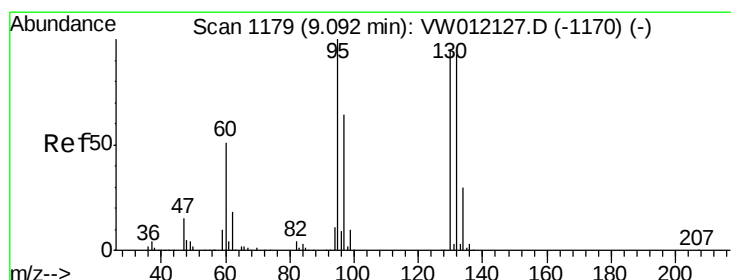
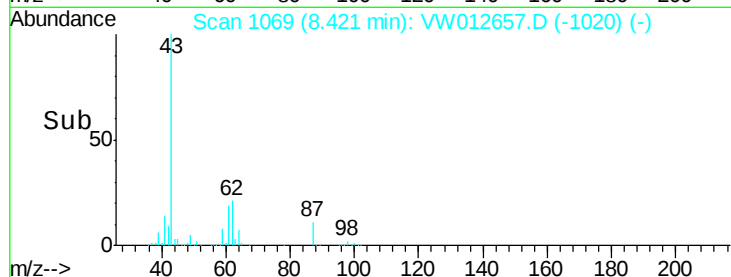
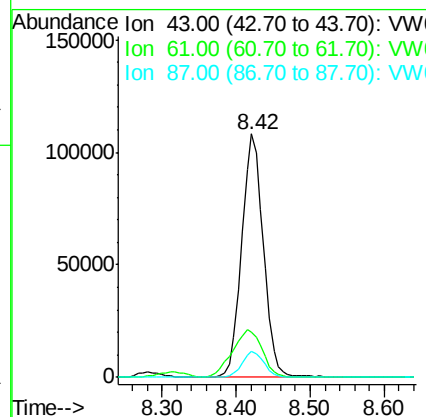
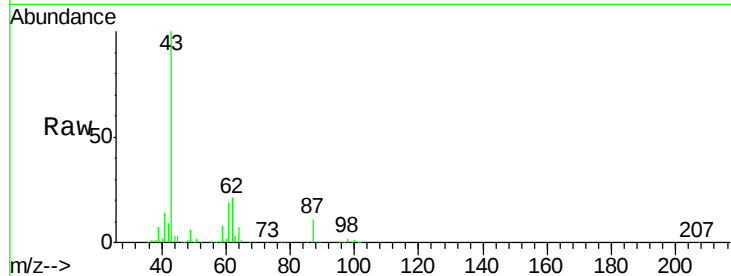
#43  
Isopropyl Acetate  
Concen: 62.242 ug/l  
RT: 8.42 min Scan# 1069  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 220692 |       |       |
| 61      | 26.6  |        | 21.1  | 31.7  |
| 87      | 10.6  |        | 8.2   | 12.2  |

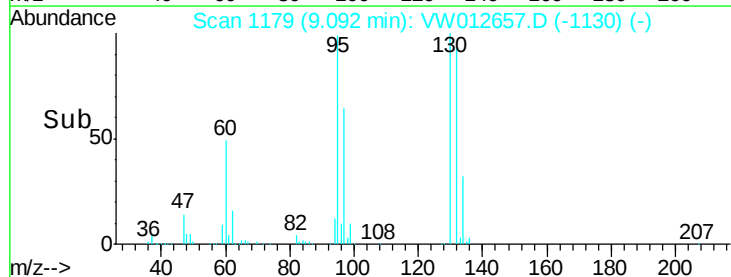
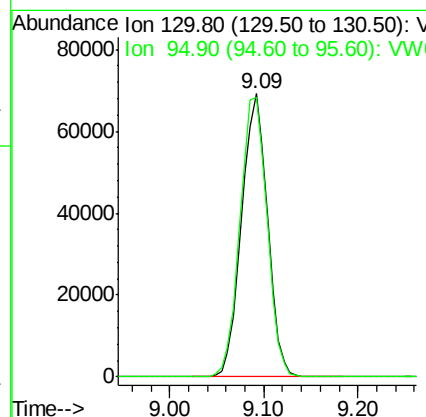
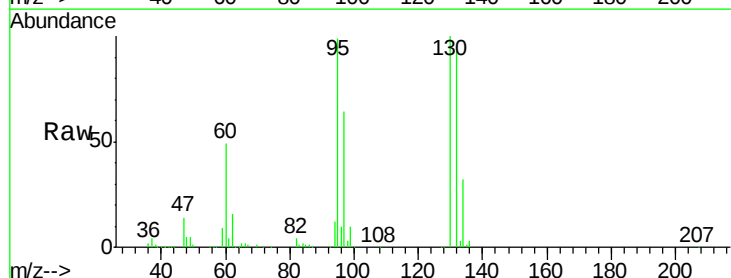
Manual Integrations  
APPROVED

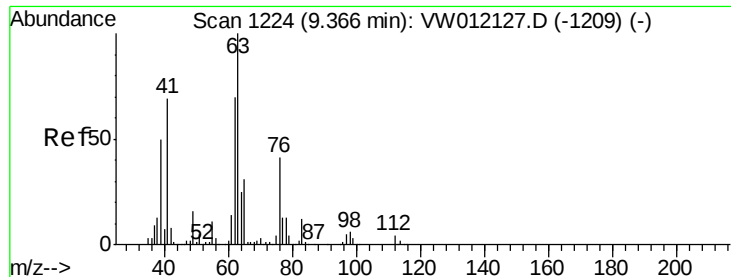
MMDadoda  
9/6/2019 12:29:41 PM



#44  
Trichloroethene  
Concen: 57.482 ug/l  
RT: 9.09 min Scan# 1179  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 130     | 100   | 133286 |       |       |
| 95      | 98.6  |        | 0.0   | 210.6 |





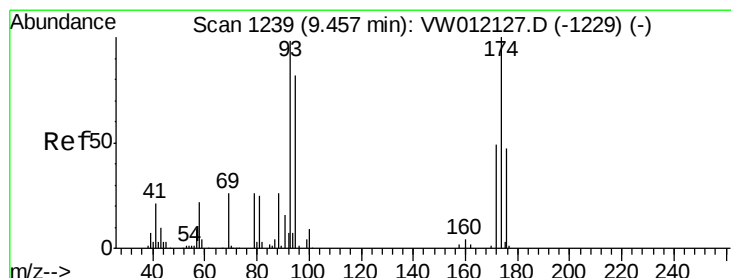
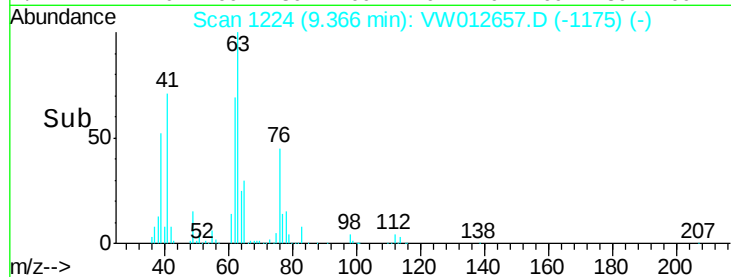
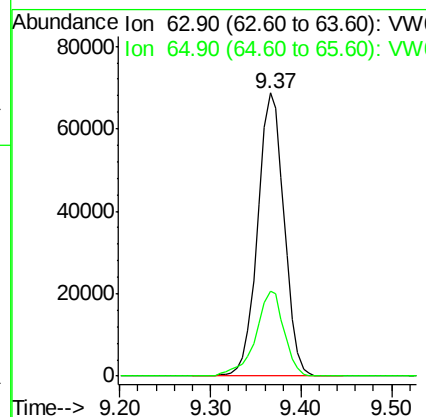
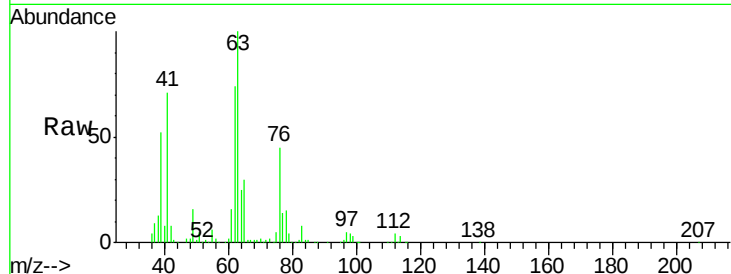
#45  
 1,2-Dichloropropane  
 Concen: 53.966 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 63      | 100   |      |       |       |
| 65      | 30.1  | 25.0 | 37.4  |       |

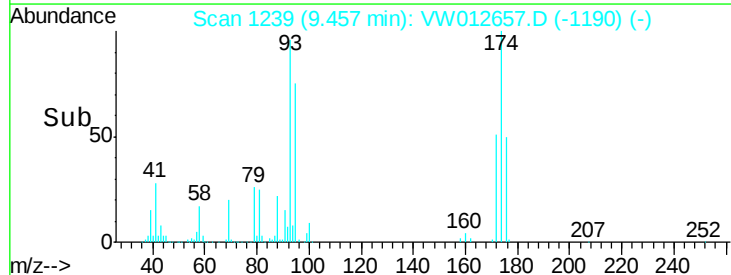
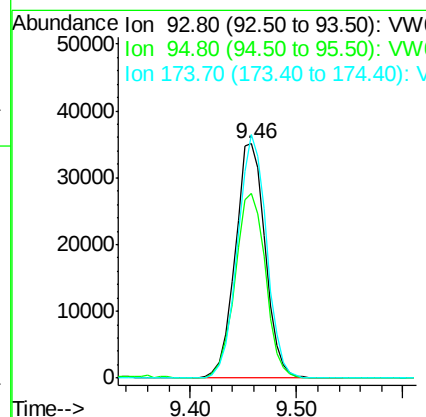
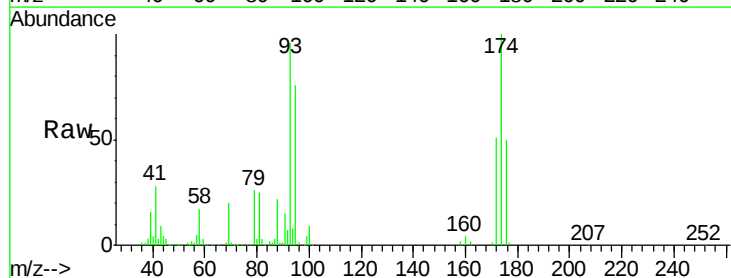
Manual Integrations  
 APPROVED

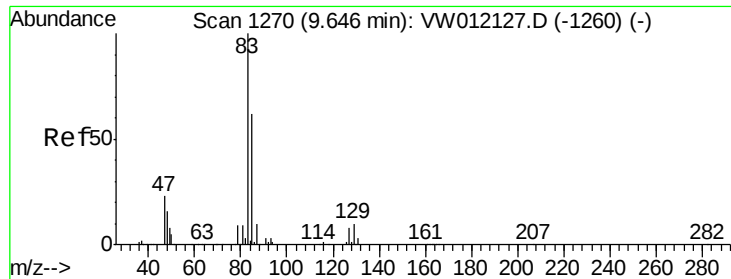
MMDadoda  
 9/6/2019 12:29:41 PM



#46  
 Dibromomethane  
 Concen: 60.795 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 93      | 100   |      |       |       |
| 95      | 80.0  | 67.2 | 100.8 |       |
| 174     | 100.2 | 79.0 | 118.6 |       |





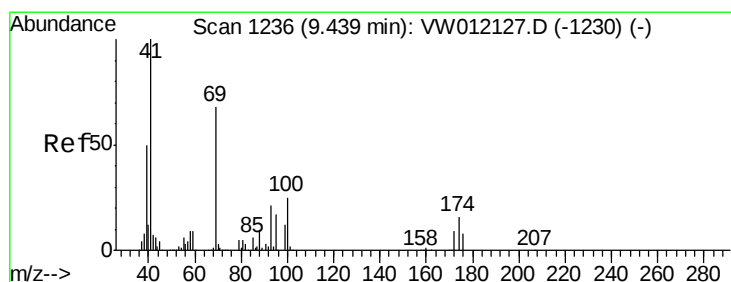
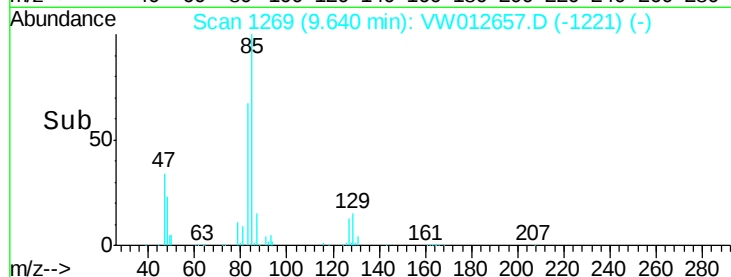
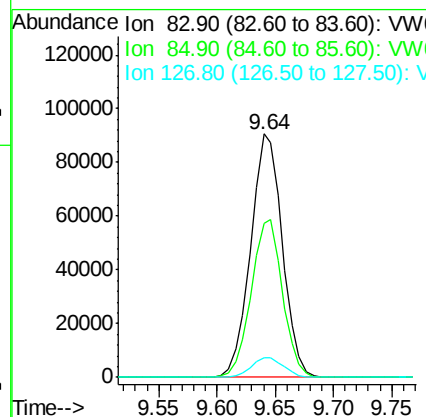
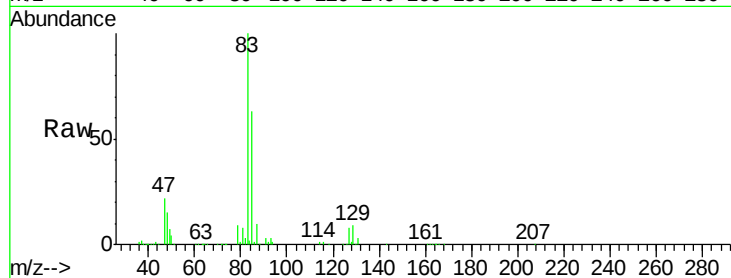
#47  
Bromodichloromethane  
Concen: 56.628 ug/l  
RT: 9.64 min Scan# 1269  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.5  | 49.4  | 74.2  |
| 127     | 8.0   | 6.1   | 9.1   |

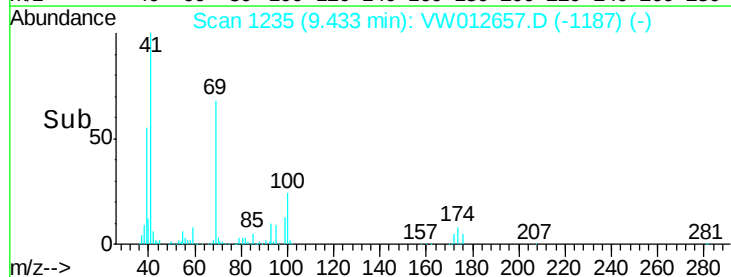
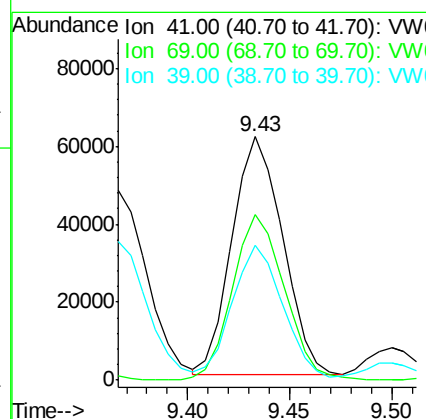
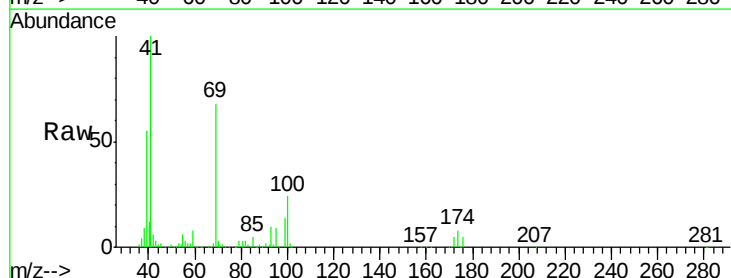
Manual Integrations  
APPROVED

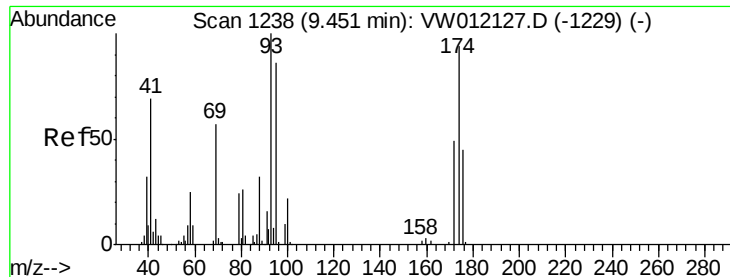
MMDadoda  
9/6/2019 12:29:41 PM



#48  
Methyl methacrylate  
Concen: 62.314 ug/l  
RT: 9.43 min Scan# 1235  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 71.3  | 56.7  | 85.1  |
| 39      | 57.2  | 42.0  | 63.0  |





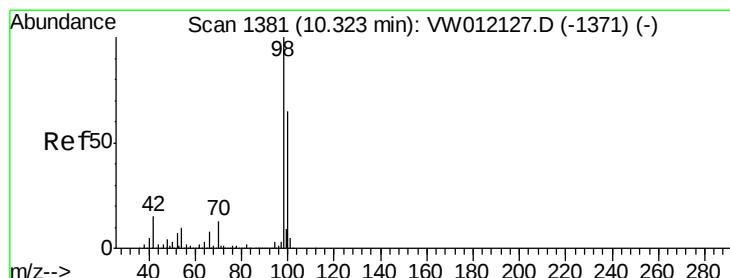
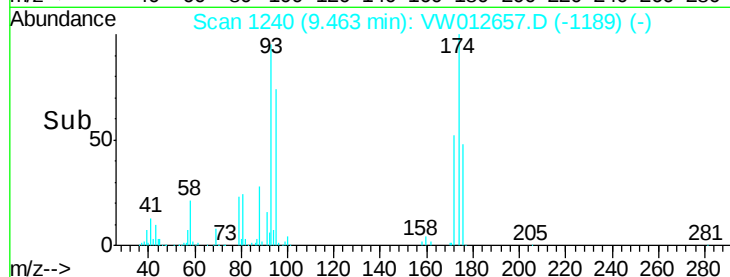
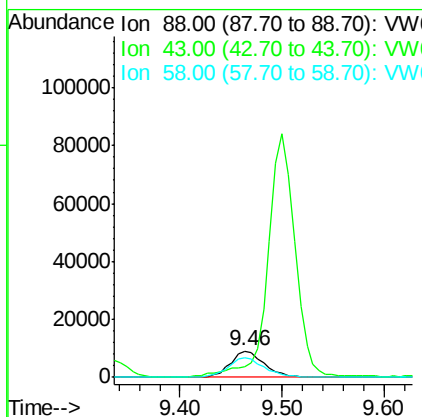
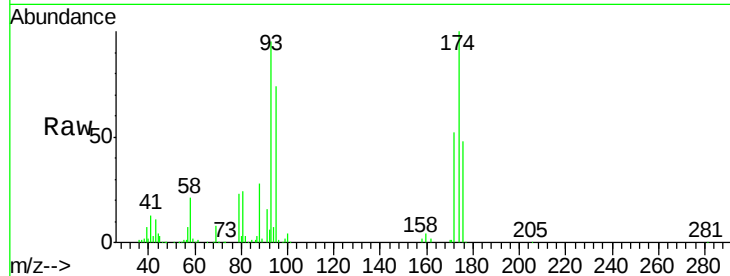
#49  
1,4-Dioxane  
Concen: 1193.405 ug/l  
RT: 9.46 min Scan# 1240  
Delta R.T. 0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDCCC050

| Tot Ion | 88    | Resp  | 20867 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 0.0   | 32.9  | 49.3# |
| 58      | 82.9  | 71.0  | 106.4 |

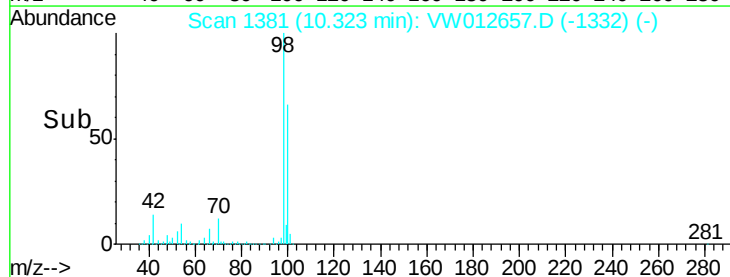
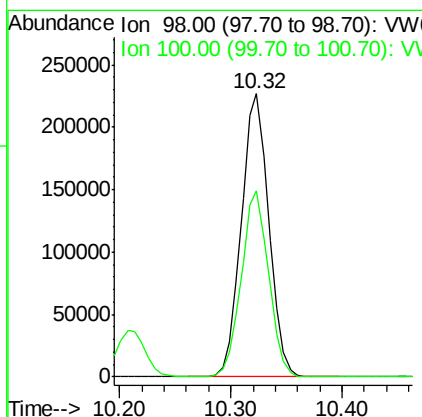
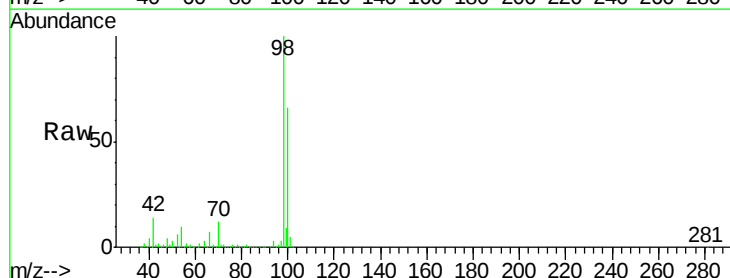
Manual Integrations  
APPROVED

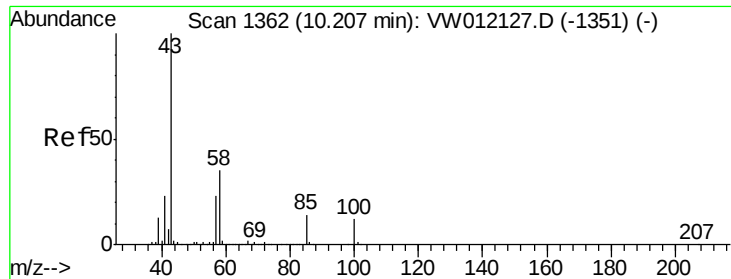
MMDadoda  
9/6/2019 12:29:41 PM



#50  
Toluene-d8  
Concen: 47.508 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | 98    | Resp  | 388682 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 98      | 100   |       |        |
| 100     | 64.9  | 52.4  | 78.6   |





#51

4-Methyl-2-Pentanone

Concen: 297.365 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 536288

Ion Ratio Lower Upper

43 100

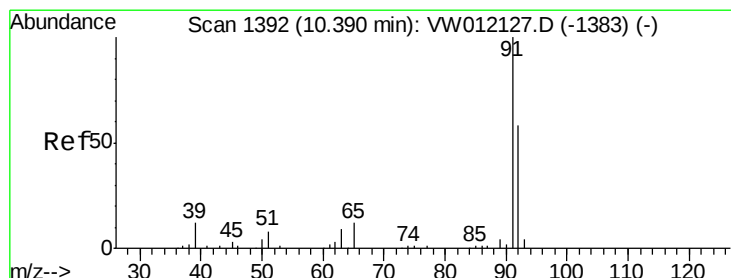
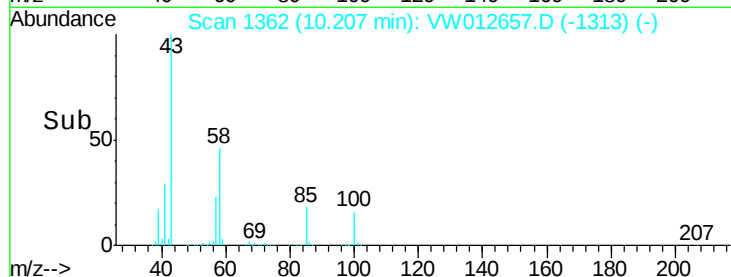
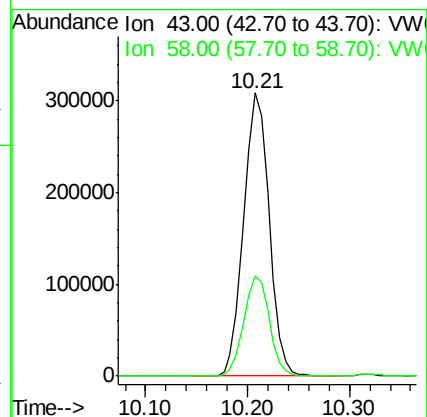
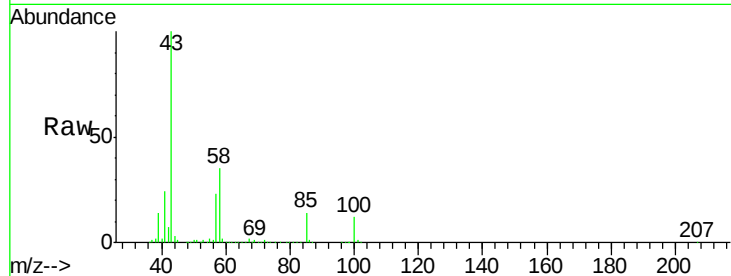
58 35.5 28.2 42.2

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



#52

Toluene

Concen: 56.570 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012657.D

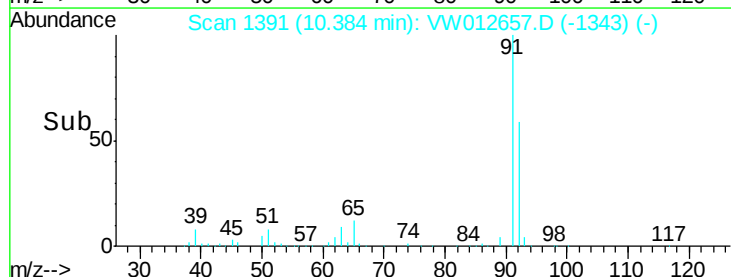
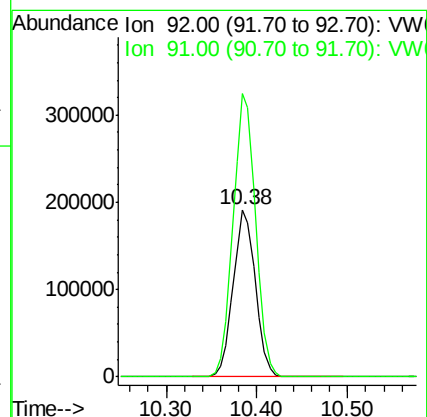
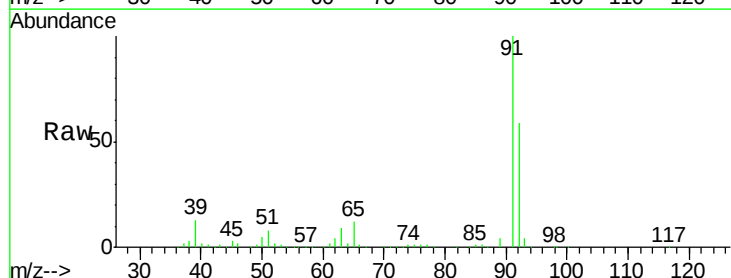
Acq: 05 Sep 2019 22:20

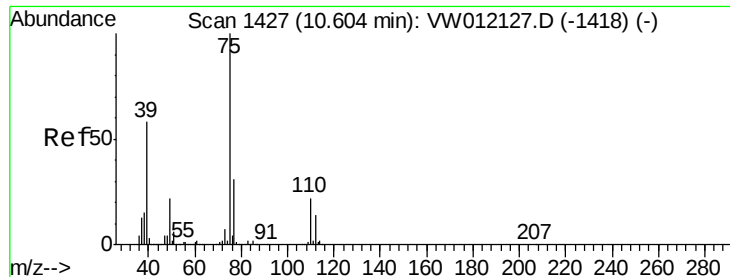
Tgt Ion: 92 Resp: 324153

Ion Ratio Lower Upper

92 100

91 172.0 136.6 204.8





#53

t-1,3-Dichloropropene

Concen: 60.750 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampled :

VSTDCCC050

Tot Ion: 75 Resp: 188105

Ion Ratio Lower Upper

75 100

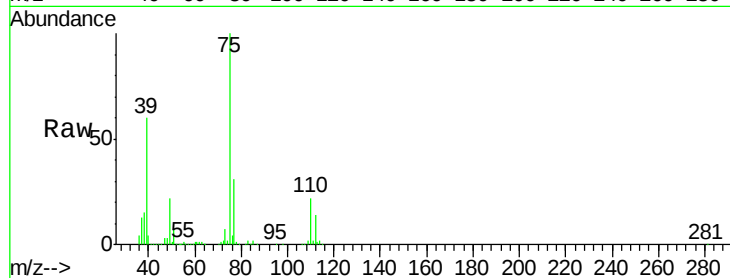
77 30.8 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.60

120000

100000

80000

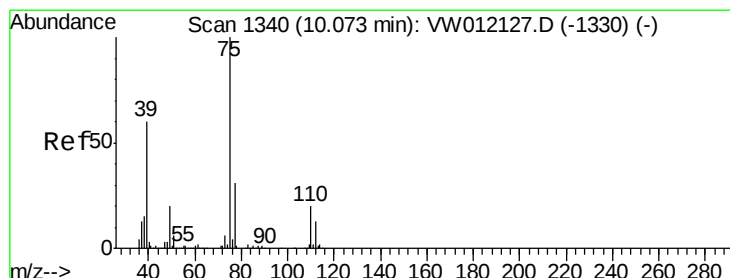
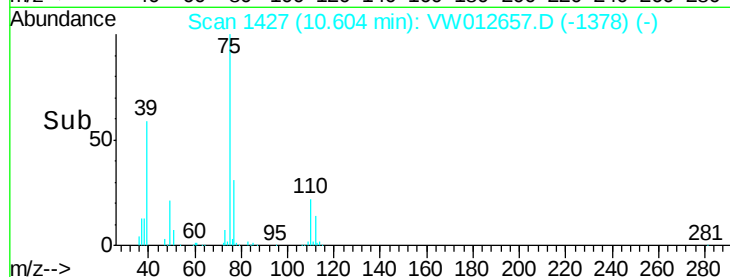
60000

40000

20000

0

Time--> 10.50 10.60 10.70



#54

cis-1,3-Dichloropropene

Concen: 57.189 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

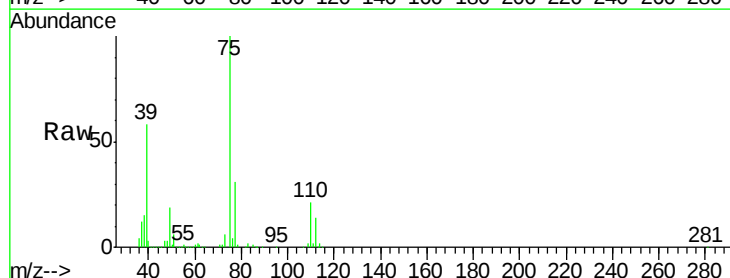
Tgt Ion: 75 Resp: 213816

Ion Ratio Lower Upper

75 100

77 31.1 25.1 37.7

39 57.8 48.3 72.5



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

10.07

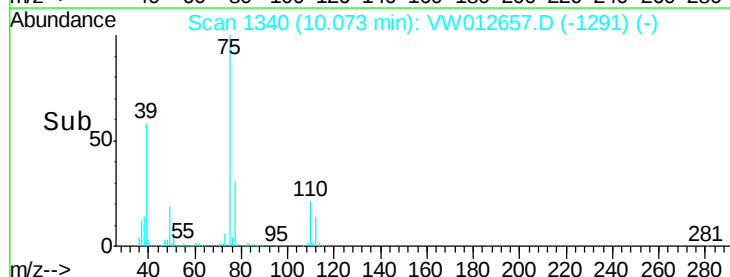
150000

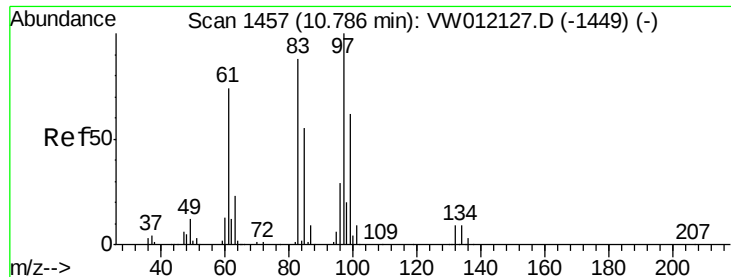
100000

50000

0

Time--> 10.00 10.10





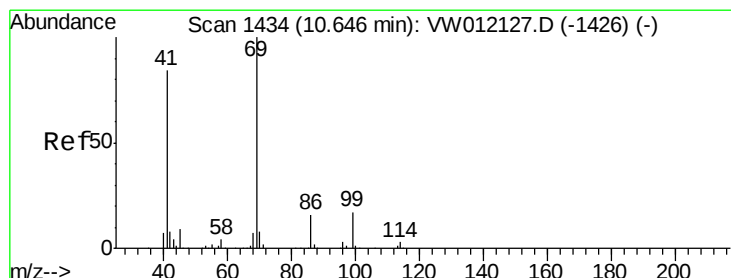
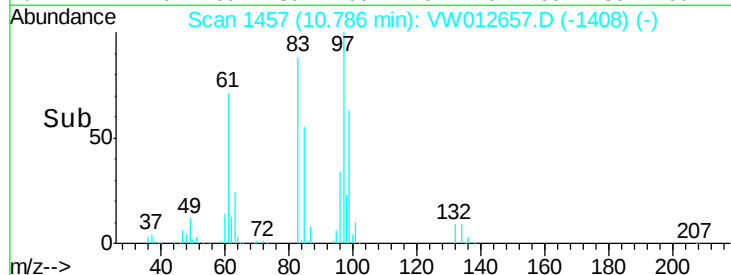
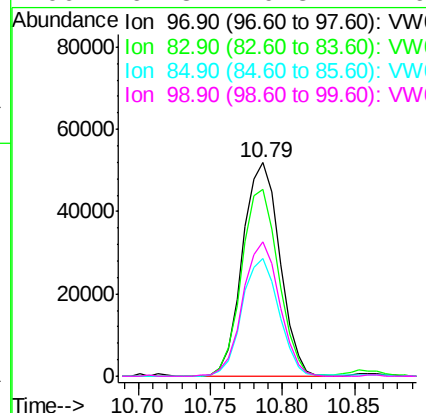
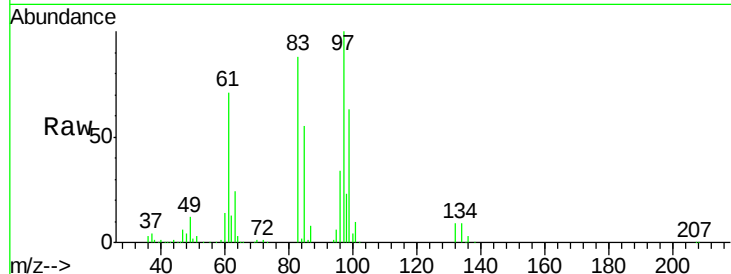
#55  
 1,1,2-Trichloroethane  
 Concen: 57.763 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 93346 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 87.6  | 70.8  | 106.2 |
| 85       | 55.1  | 43.8  | 65.8  |
| 99       | 62.8  | 49.8  | 74.6  |

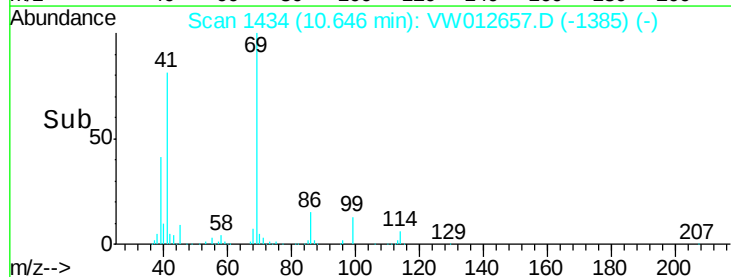
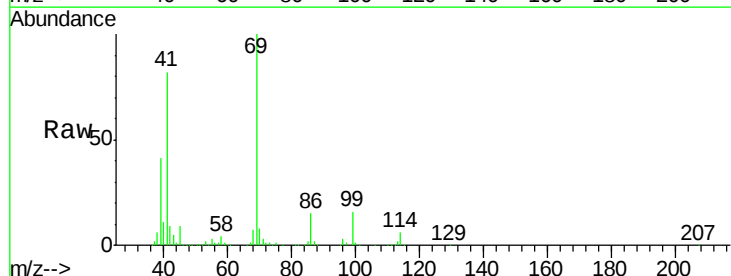
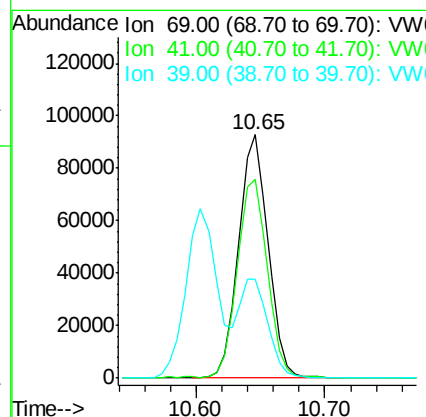
Manual Integrations  
 APPROVED

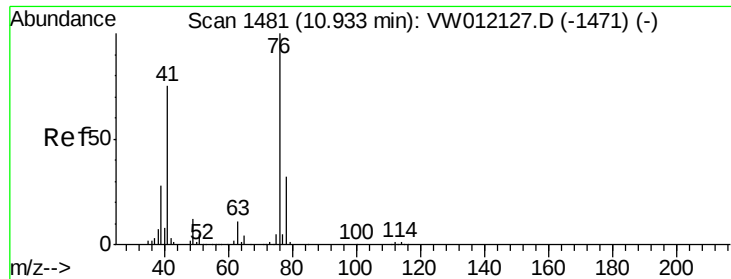
MMDadoda  
 9/6/2019 12:29:41 PM



#56  
 Ethyl methacrylate  
 Concen: 62.850 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 147822 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 83.4  | 66.5  | 99.7   |
| 39       | 38.9  | 31.0  | 46.4   |





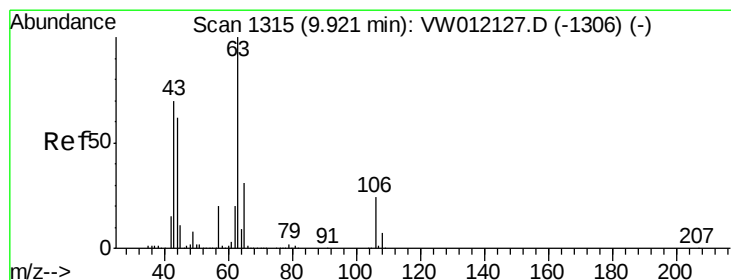
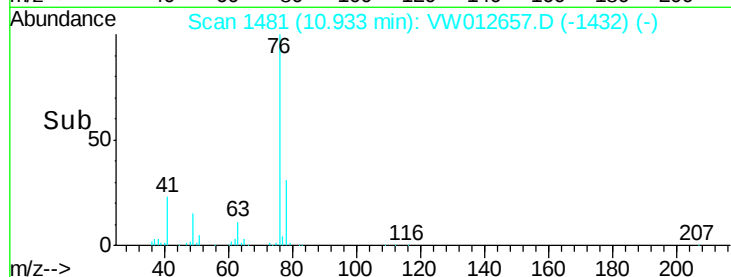
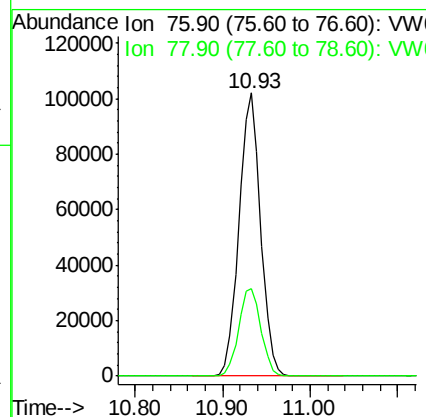
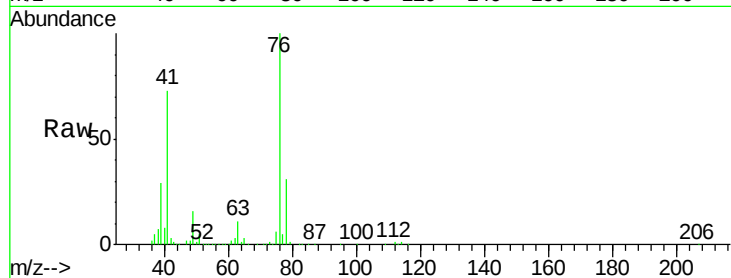
#57  
 1,3-Dichloropropane  
 Concen: 57.481 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Tot Ion: 76 Resp: 175537  
 Ion Ratio Lower Upper  
 76 100  
 78 32.1 25.8 38.8

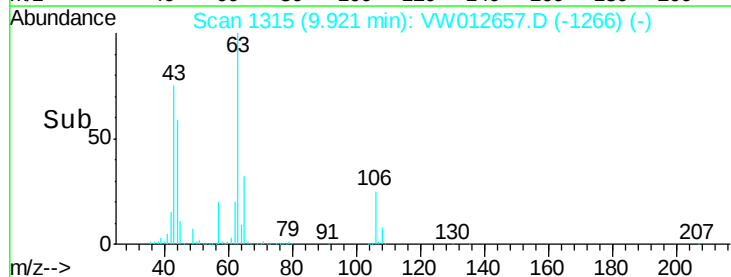
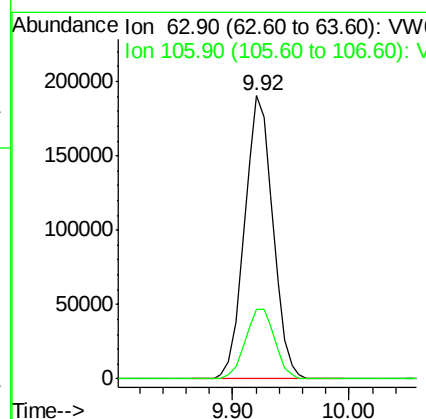
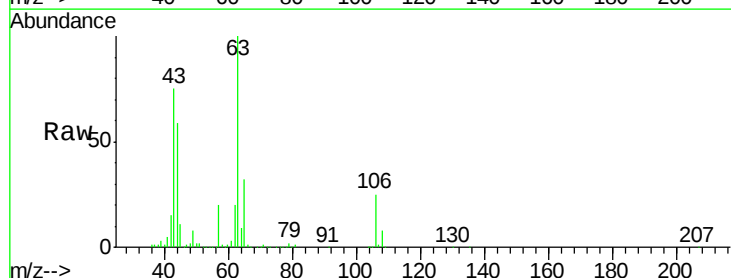
Manual Integrations  
 APPROVED

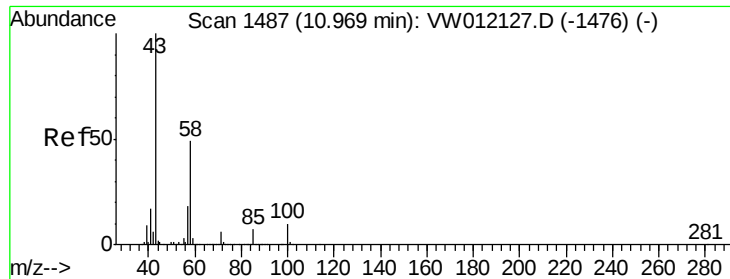
MMDadoda  
 9/6/2019 12:29:41 PM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 268.158 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Tgt Ion: 63 Resp: 323689  
 Ion Ratio Lower Upper  
 63 100  
 106 25.5 19.8 29.8





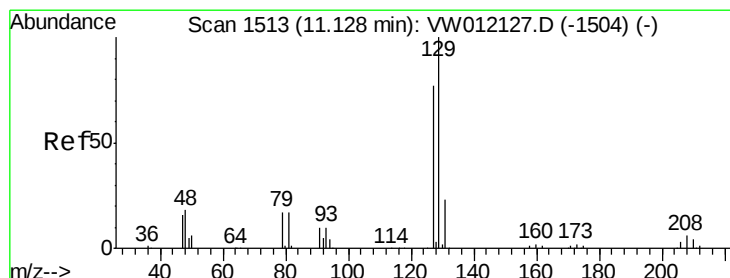
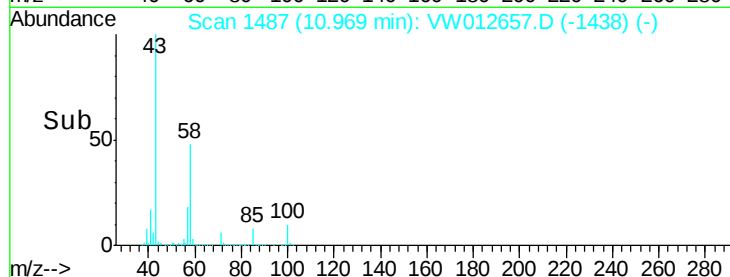
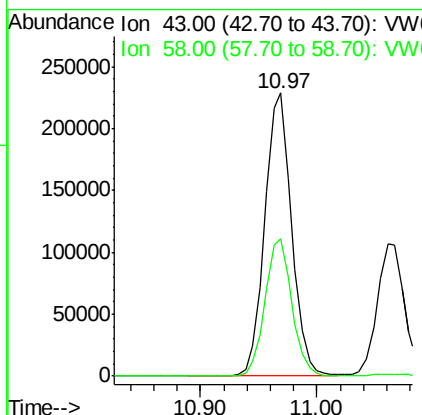
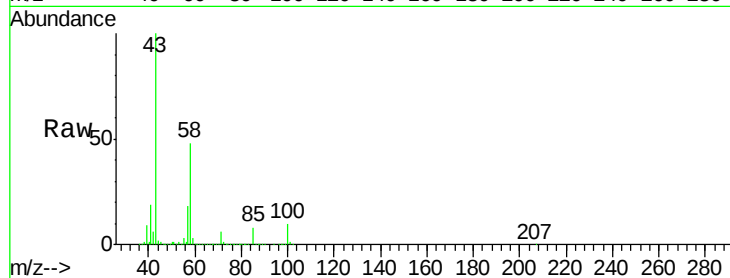
#59  
2-Hexanone  
Concen: 286.695 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion: 43 Resp: 365842  
Ion Ratio Lower Upper  
43 100  
58 48.8 24.3 72.9

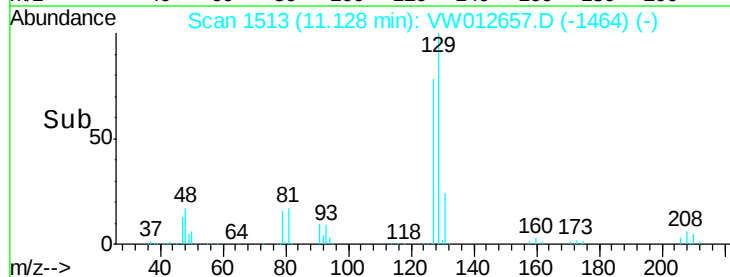
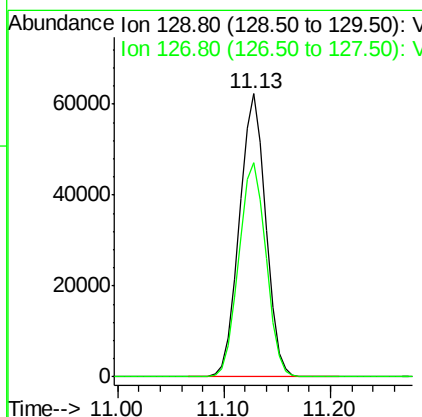
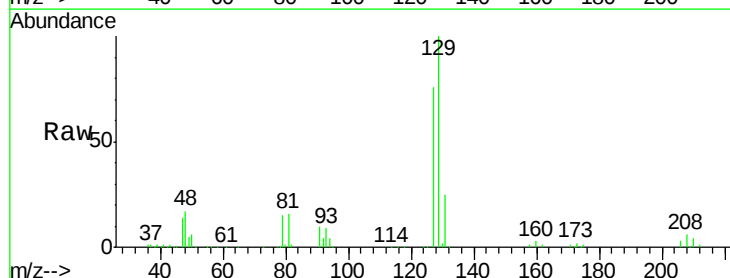
Manual Integrations  
APPROVED

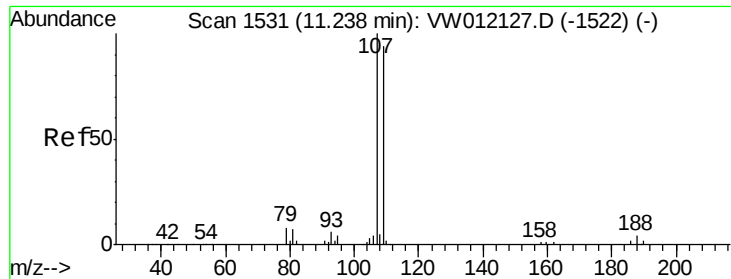
MMDadoda  
9/6/2019 12:29:41 PM



#60  
Dibromochloromethane  
Concen: 60.227 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Tgt Ion: 129 Resp: 108406  
Ion Ratio Lower Upper  
129 100  
127 78.0 38.6 115.8





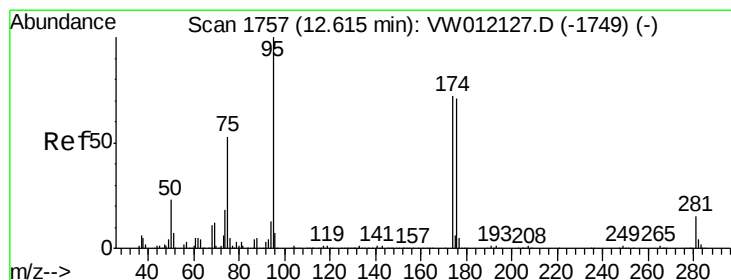
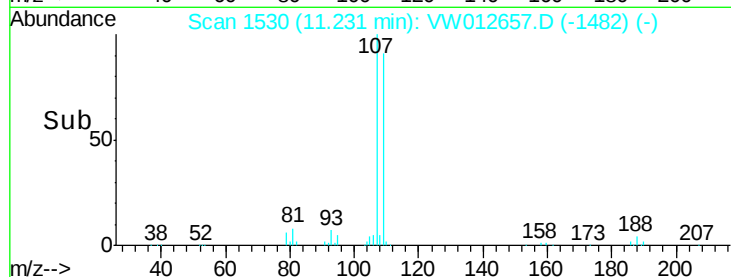
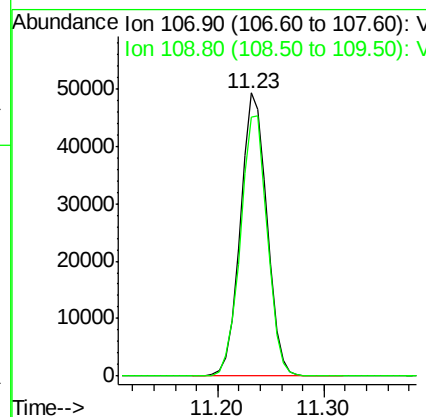
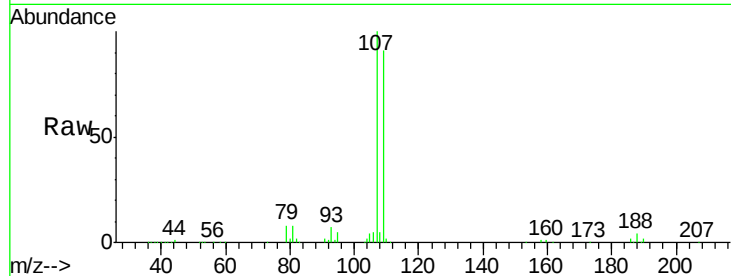
#61  
 1,2-Dibromoethane  
 Concen: 57.322 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.01 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.3  | 75.4  | 113.2 |

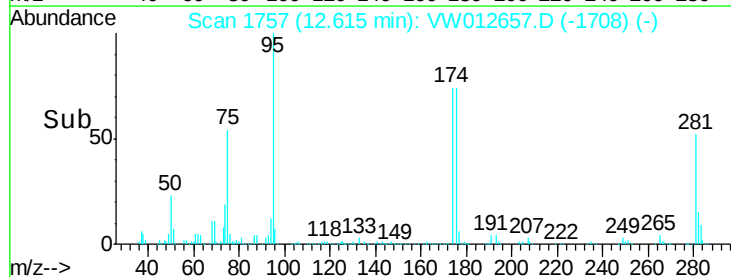
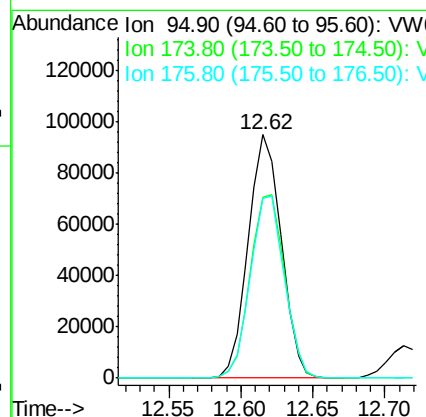
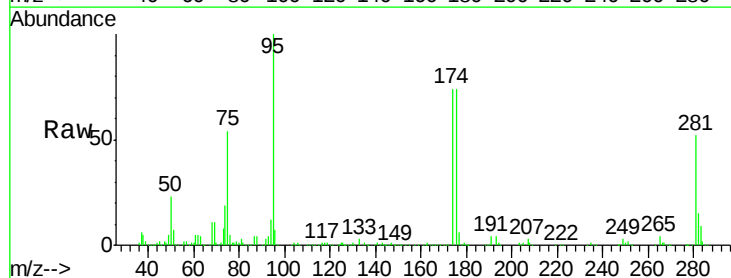
Manual Integrations  
 APPROVED

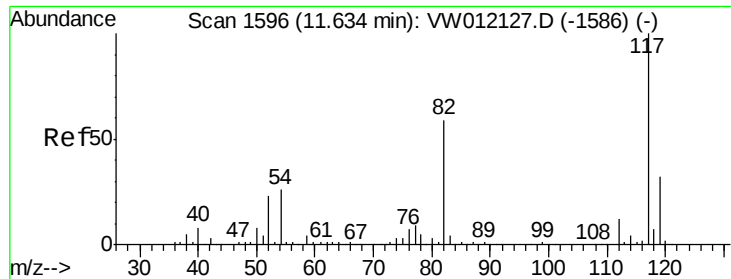
MMDadoda  
 9/6/2019 12:29:41 PM



#62  
 4-Bromofluorobenzene  
 Concen: 52.488 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 78.5  | 0.0   | 150.8 |
| 176     | 76.6  | 0.0   | 148.6 |





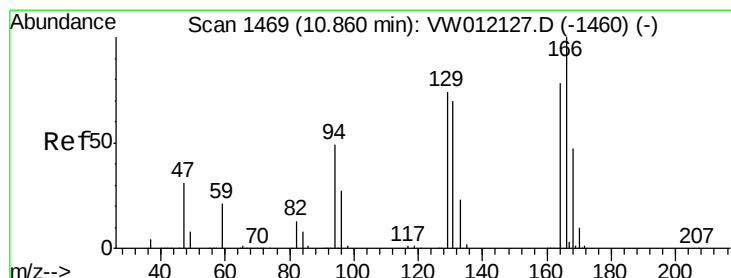
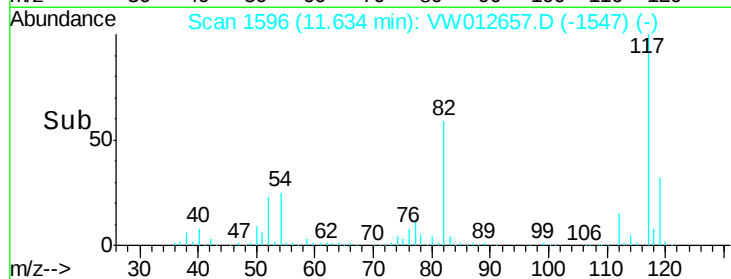
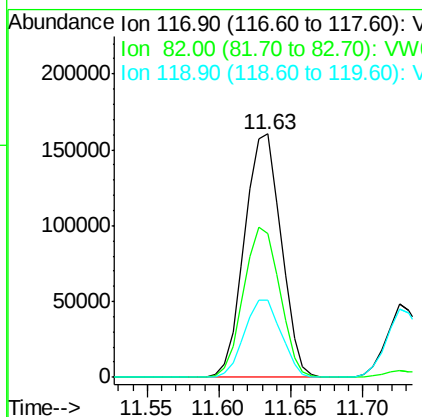
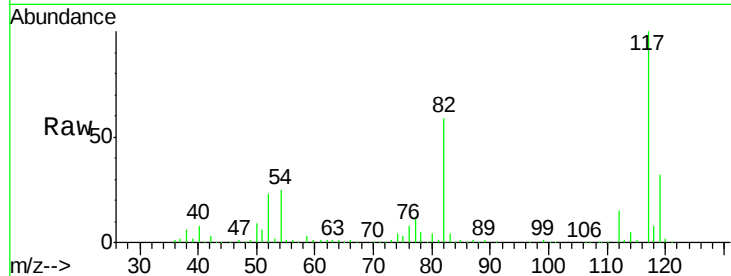
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 283398 |       |       |
| 82      | 58.9  | 47.4   | 71.2  |       |
| 119     | 31.9  | 25.4   | 38.2  |       |

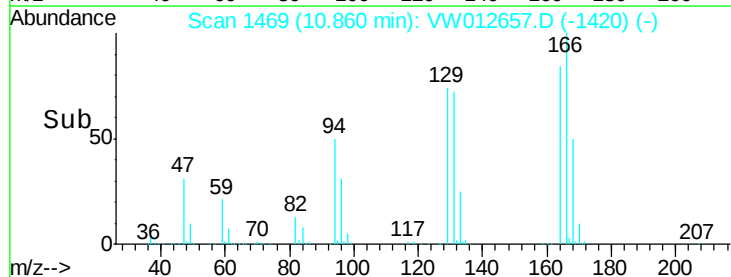
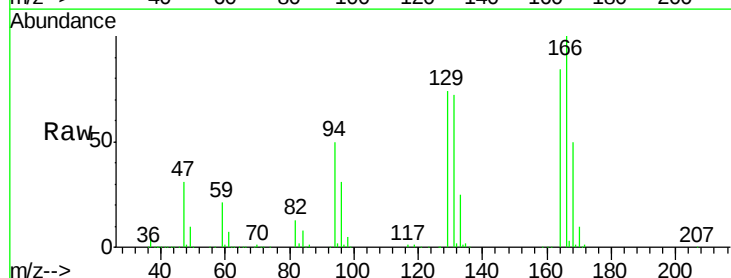
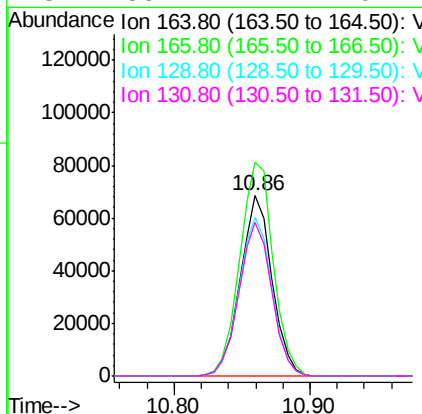
Manual Integrations  
APPROVED

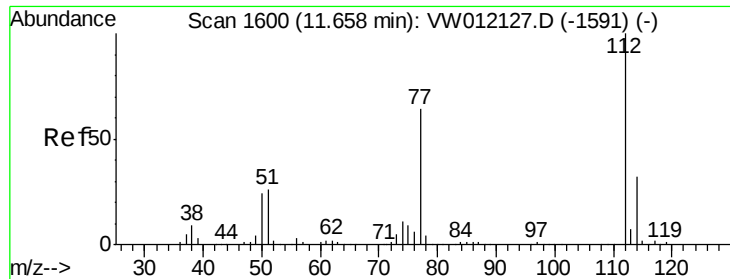
MMDadoda  
9/6/2019 12:29:41 PM



#64  
Tetrachloroethene  
Concen: 60.557 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 111265 |       |       |
| 166     | 118.3 | 102.4  | 153.6 |       |
| 129     | 87.8  | 75.8   | 113.6 |       |
| 131     | 85.4  | 71.4   | 107.2 |       |





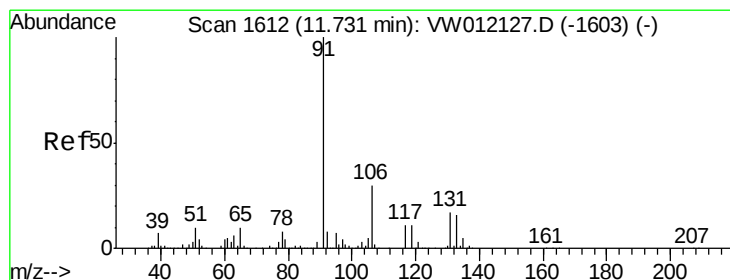
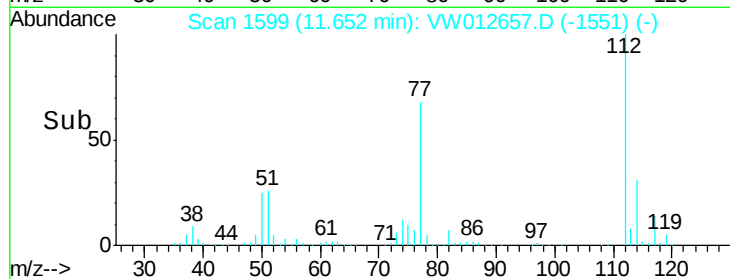
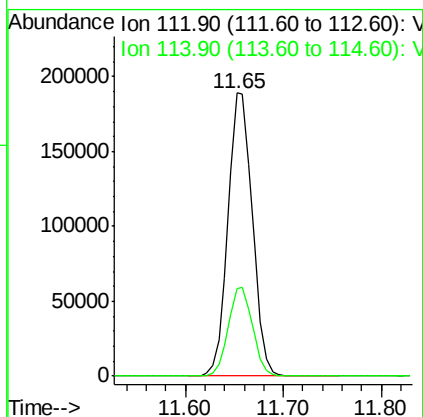
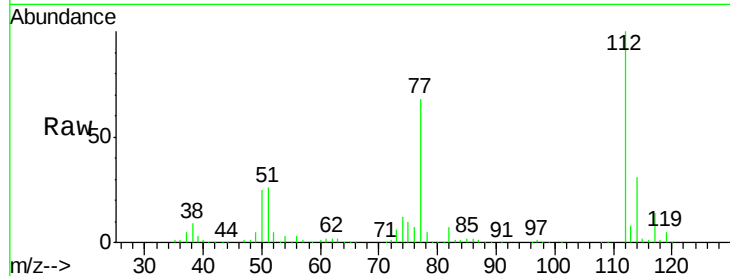
#65  
Chlorobenzene  
Concen: 58.422 ug/l  
RT: 11.65 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Tot Ion:112 Resp: 326013  
Ion Ratio Lower Upper  
112 100  
114 31.1 25.8 38.6

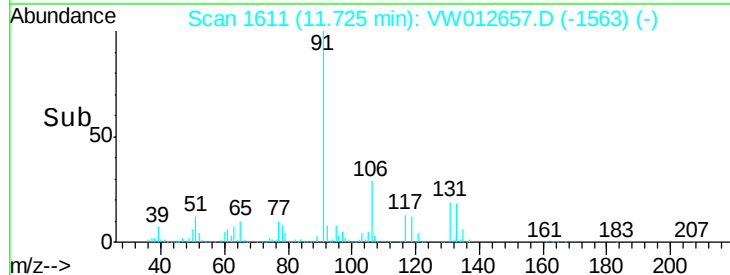
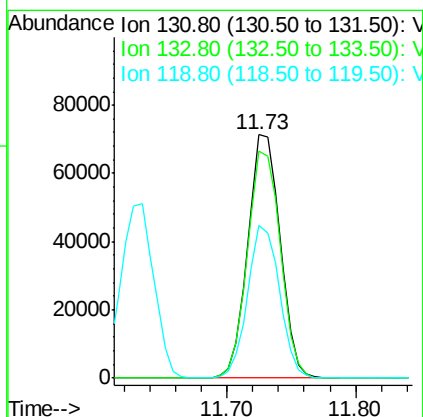
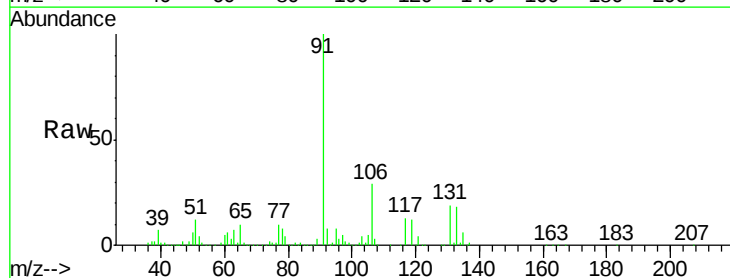
Manual Integrations  
APPROVED

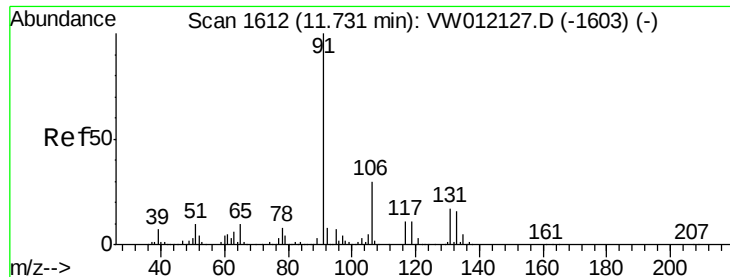
MMDadoda  
9/6/2019 12:29:41 PM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 63.494 ug/l  
RT: 11.73 min Scan# 1611  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Tgt Ion:131 Resp: 123608  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.1 141.3  
119 61.9 31.8 95.3





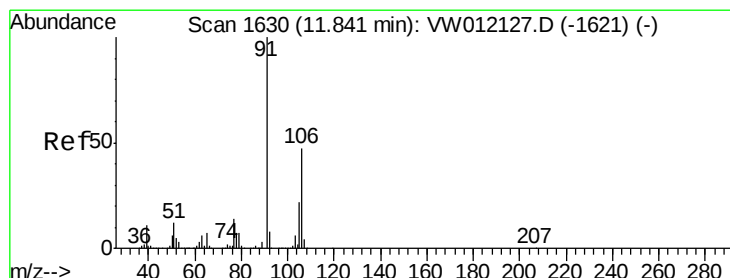
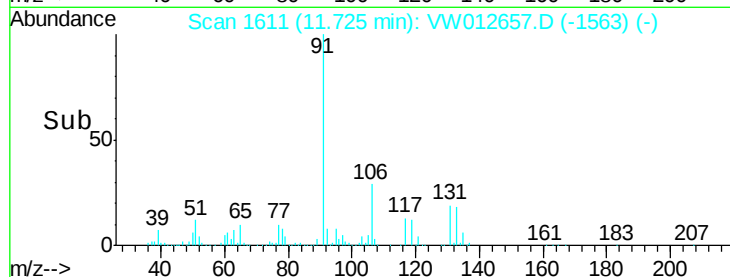
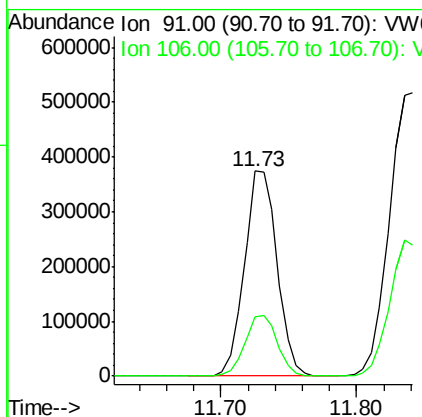
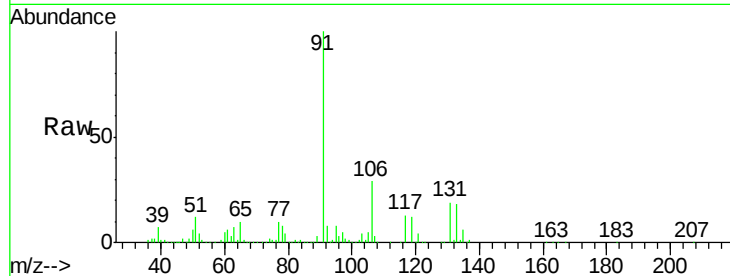
#67  
Ethyl Benzene  
Concen: 58.451 ug/l  
RT: 11.73 min Scan# 1611  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDCCC050

Tot Ion: 91 Resp: 628329  
Ion Ratio Lower Upper  
91 100  
106 29.2 24.3 36.5

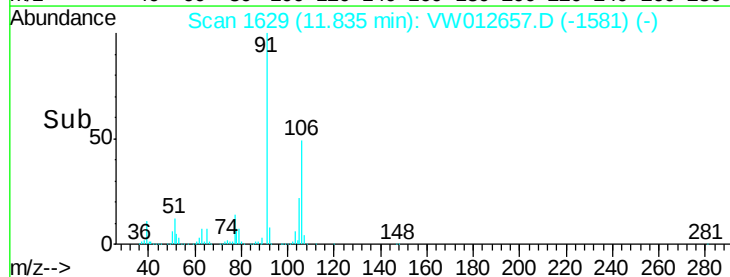
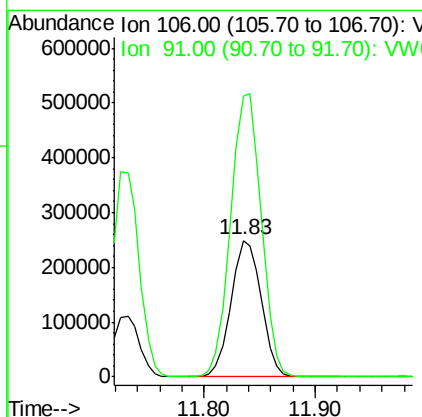
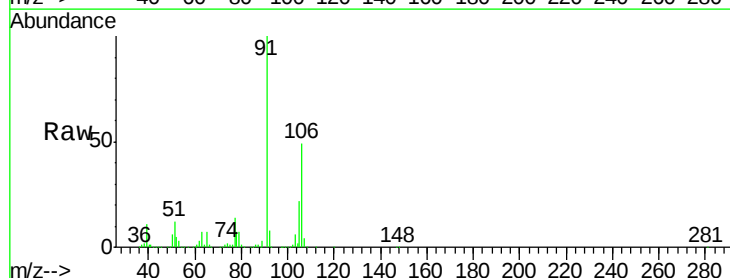
Manual Integrations  
APPROVED

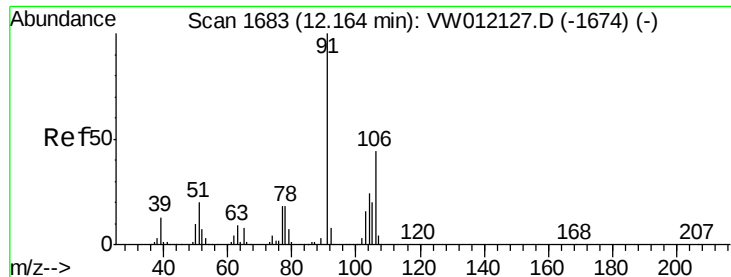
MMDadoda  
9/6/2019 12:29:41 PM



#68  
m/p-Xylenes  
Concen: 120.249 ug/l  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Tgt Ion: 106 Resp: 465618  
Ion Ratio Lower Upper  
106 100  
91 211.0 169.5 254.3





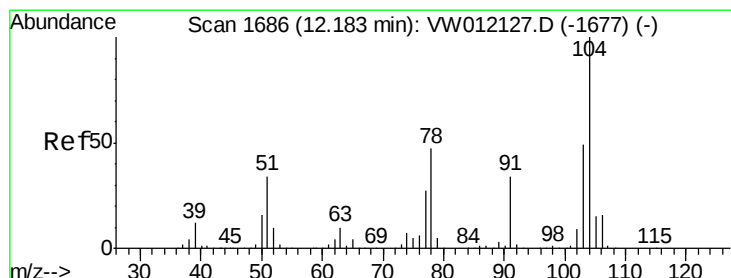
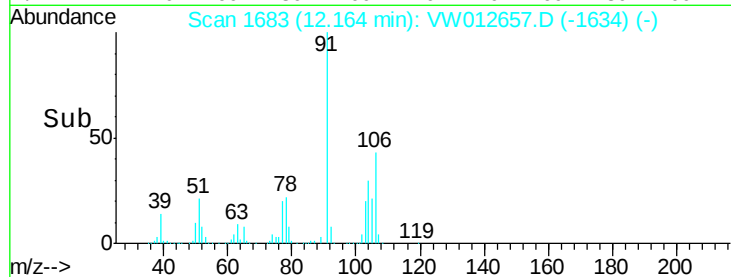
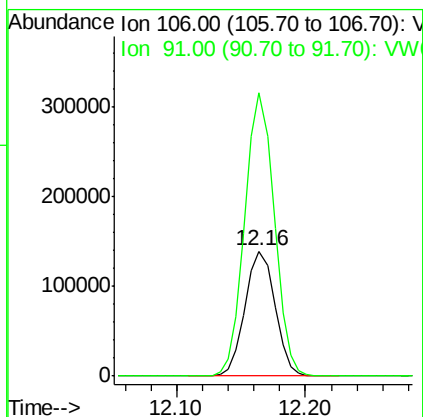
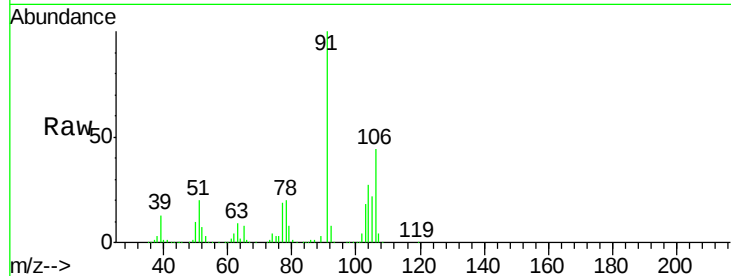
#69  
o-Xylene  
Concen: 62.368 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 223.4 | 111.6 | 334.6 |

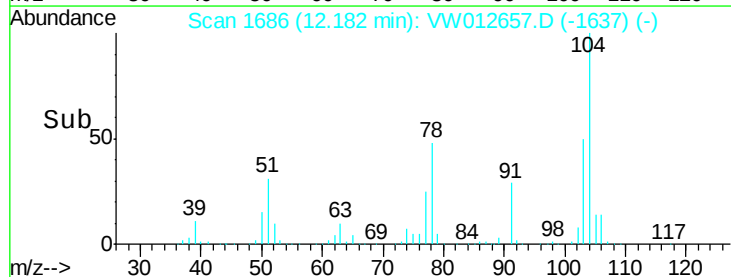
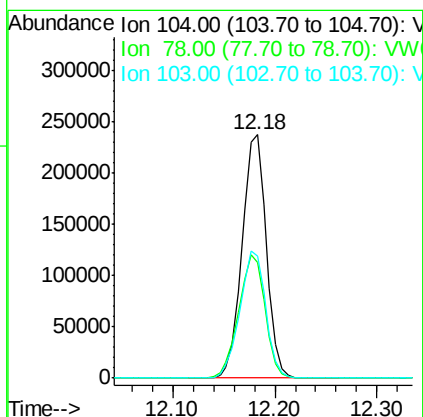
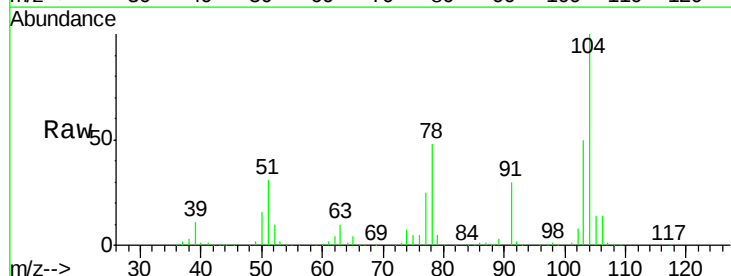
Manual Integrations  
APPROVED

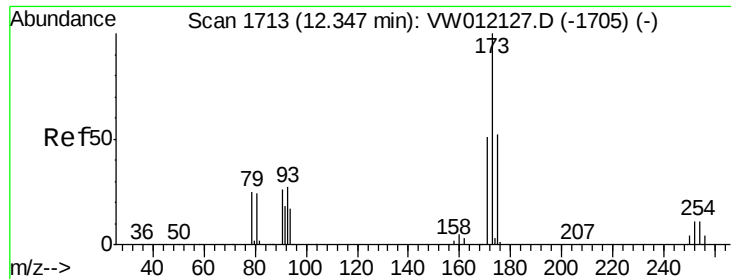
MMDadoda  
9/6/2019 12:29:41 PM



#70  
Styrene  
Concen: 62.823 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 55.0  | 43.1  | 64.7  |
| 103     | 55.8  | 43.5  | 65.3  |





#71

Bromoform

Concen: 71.481 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

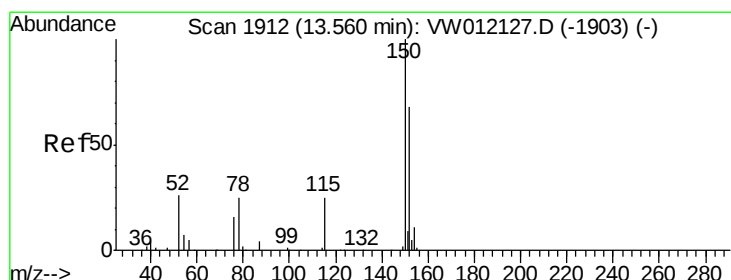
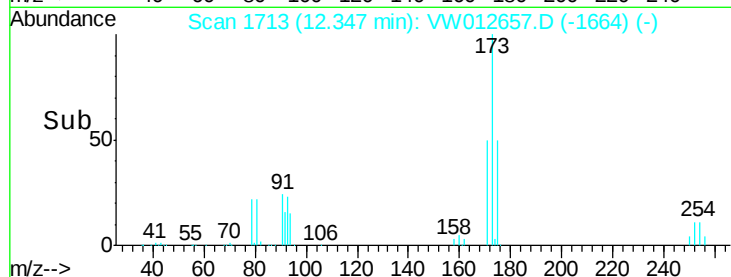
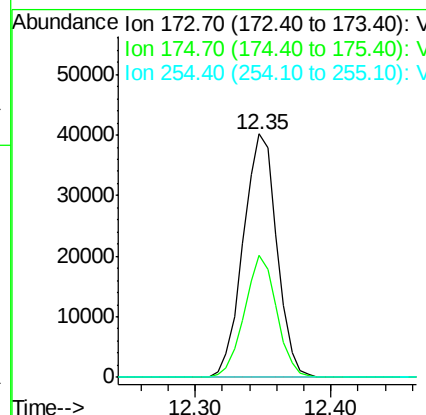
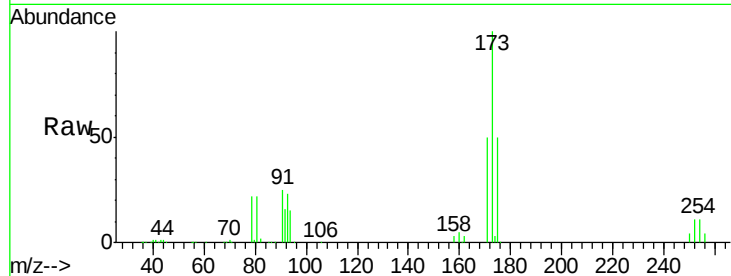
ClientSampleId :

VSTDCCC050

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 173     | 100  |       |      |       |       |
| 175     | 48.1 | 24.6  | 74.0 |       |       |
| 254     | 0.1  | 0.2   | 0.2# |       |       |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

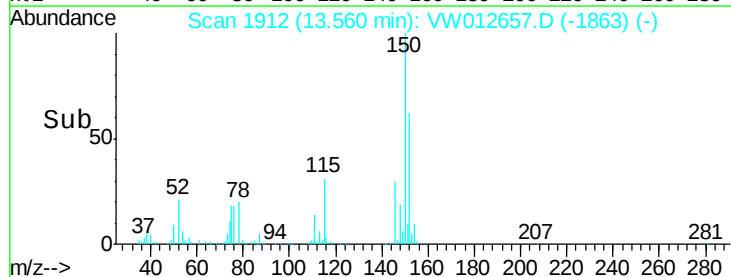
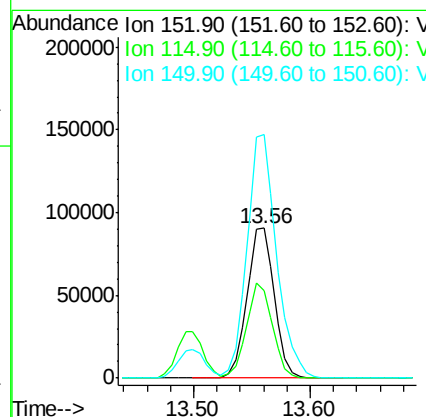
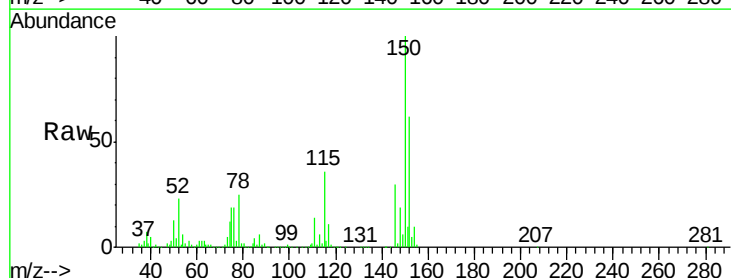
RT: 13.56 min Scan# 1912

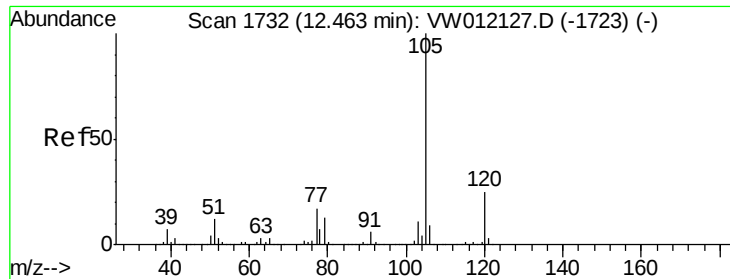
Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

| Tgt Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 152     | 100   |       |       |       |       |
| 115     | 60.2  | 30.1  | 90.3  |       |       |
| 150     | 175.9 | 0.0   | 345.8 |       |       |





#73

Isopropylbenzene

Concen: 56.626 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 626596

Ion Ratio Lower Upper

105 100

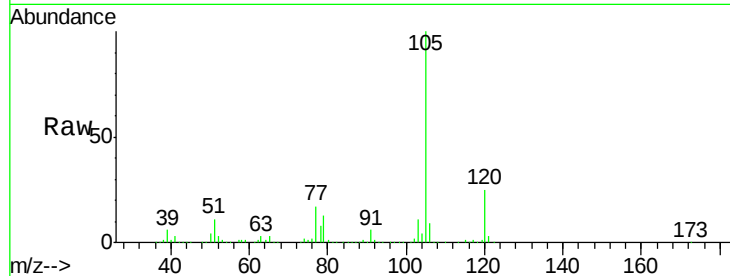
120 25.4 12.5 37.5

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

400000

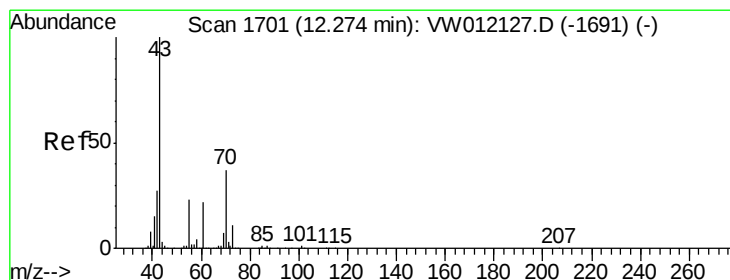
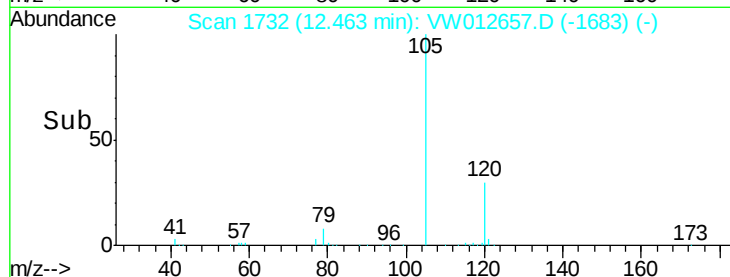
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 58.485 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Tgt Ion: 43 Resp: 195528

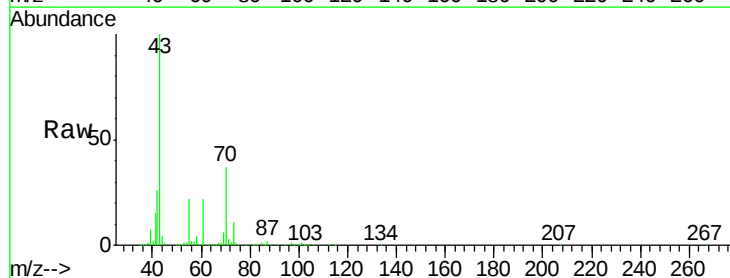
Ion Ratio Lower Upper

43 100

70 36.1 28.6 43.0

55 22.7 17.8 26.6

61 21.5 17.3 25.9



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

200000

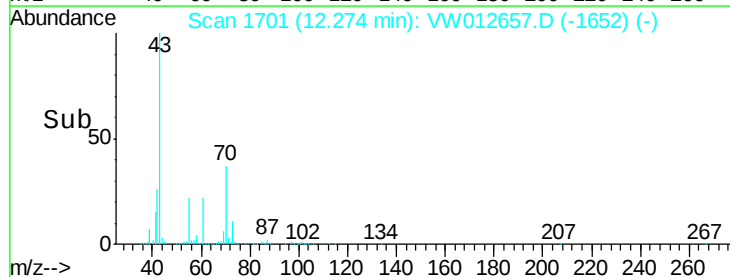
150000

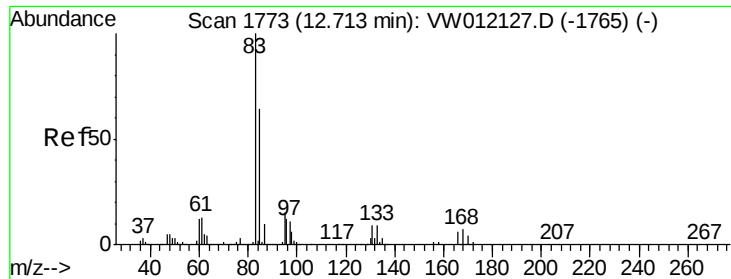
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 58.844 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

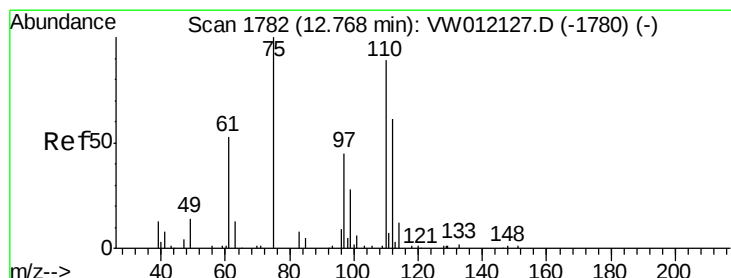
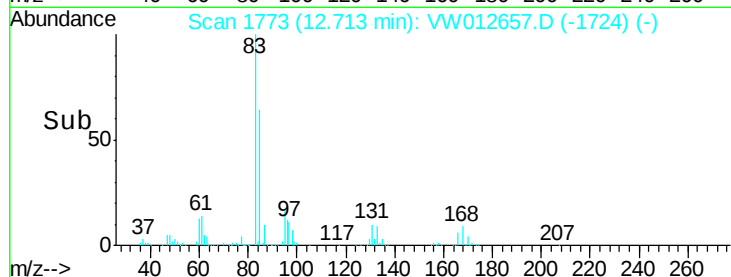
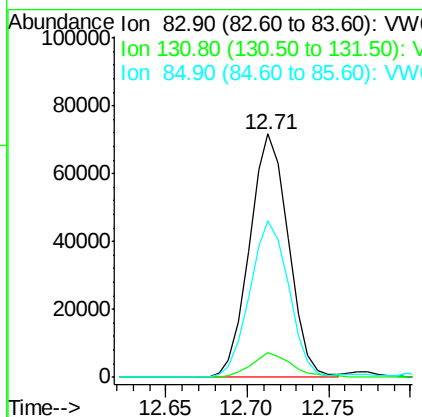
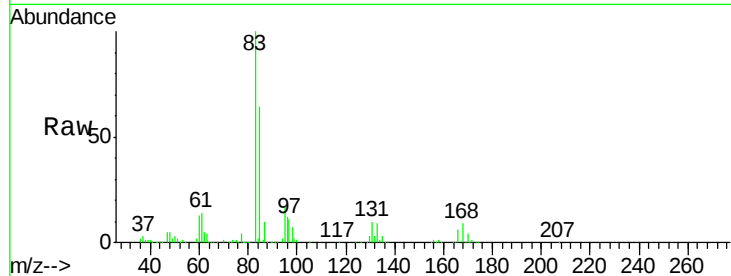
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 119373 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.7  | 4.9   | 14.7   |
| 85        | 64.4  | 31.9  | 95.7   |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#76

1,2,3-Trichloropropane

Concen: 58.339 ug/l m

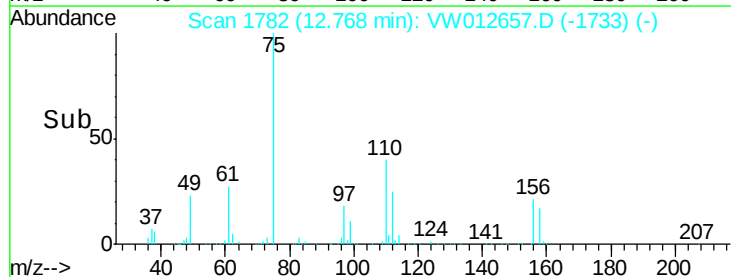
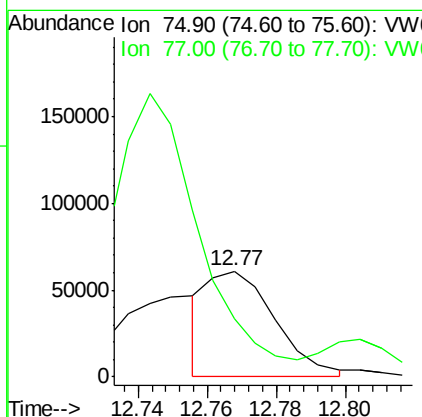
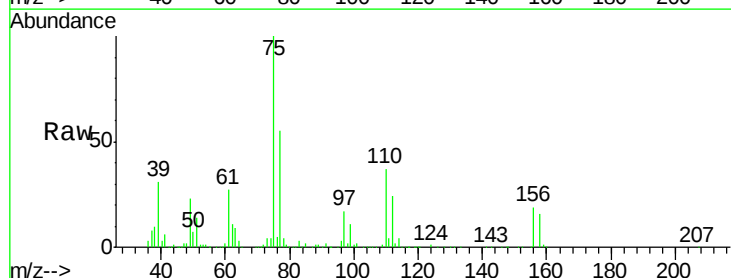
RT: 12.77 min Scan# 1782

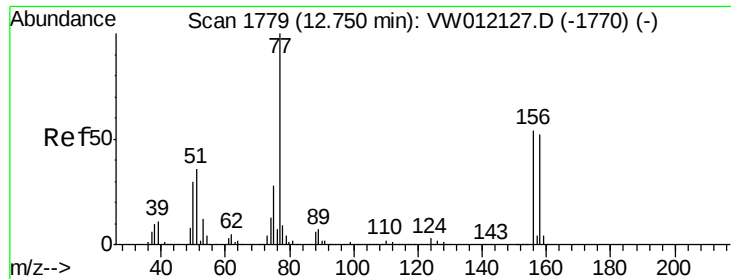
Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 83906 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 0.0   | 0.0   | 0.0   |





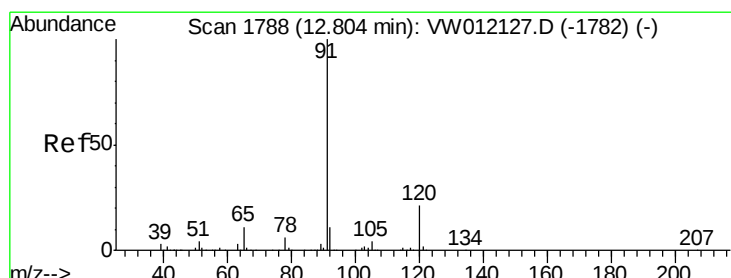
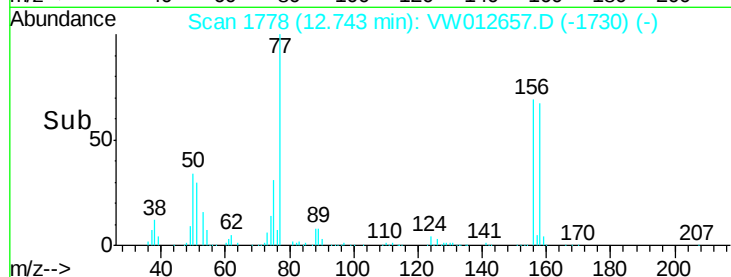
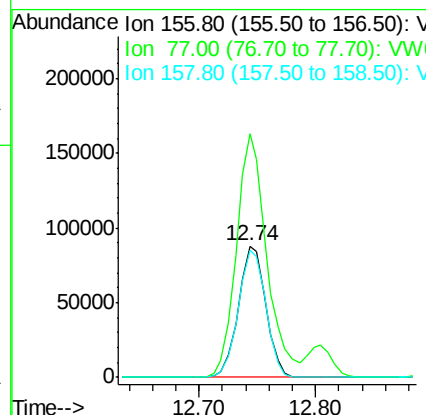
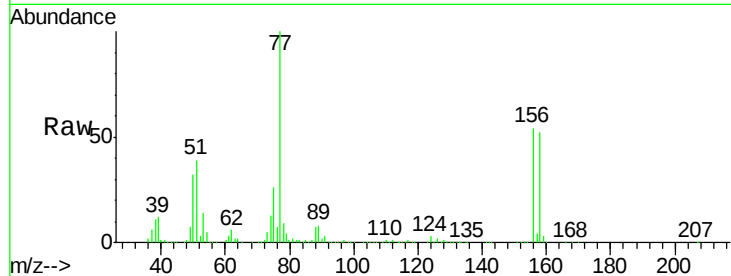
#77  
Bromobenzene  
Concen: 60.254 ug/l  
RT: 12.74 min Scan# 1778  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 156     | 100   |       |       |       |
| 77      | 204.2 | 107.3 | 321.8 |       |
| 158     | 97.8  | 49.0  | 147.0 |       |

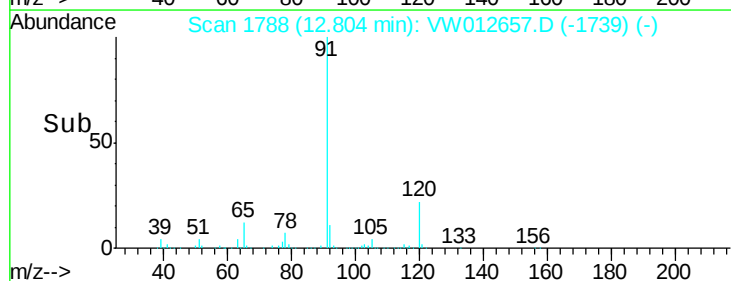
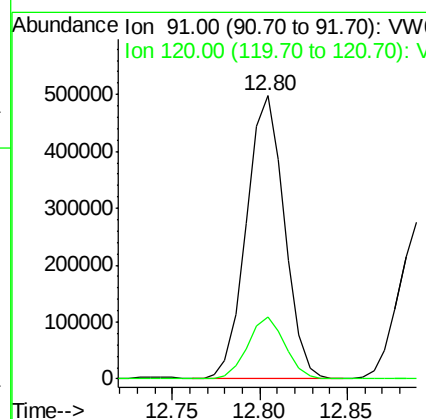
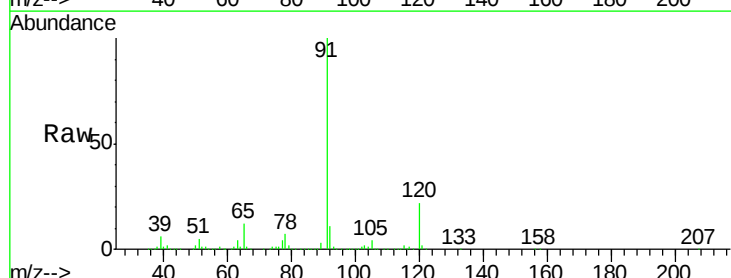
Manual Integrations  
APPROVED

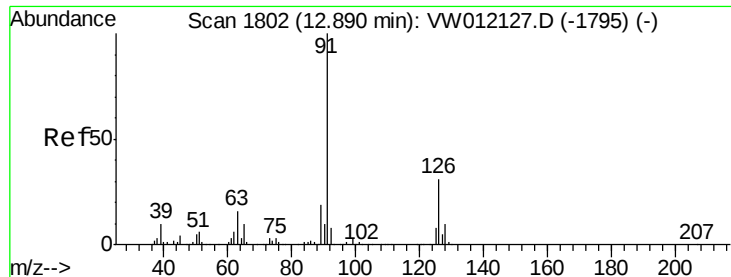
MMDadoda  
9/6/2019 12:29:41 PM



#78  
n-propylbenzene  
Concen: 55.785 ug/l  
RT: 12.80 min Scan# 1788  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 91      | 100  |       |       |       |
| 120     | 21.6 | 10.5  | 31.6  |       |





#79

2-Chlorotoluene

Concen: 57.073 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 437721

Ion Ratio Lower Upper

91 100

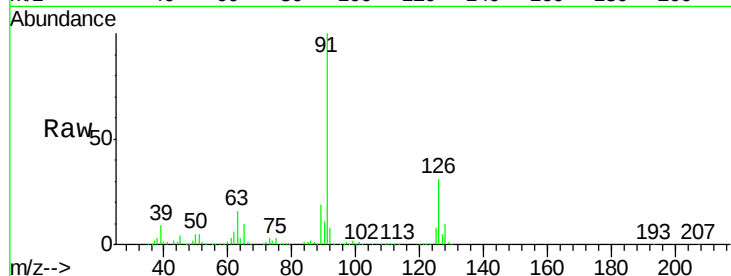
126 31.4 15.7 47.0

Manual Integrations

APPROVED

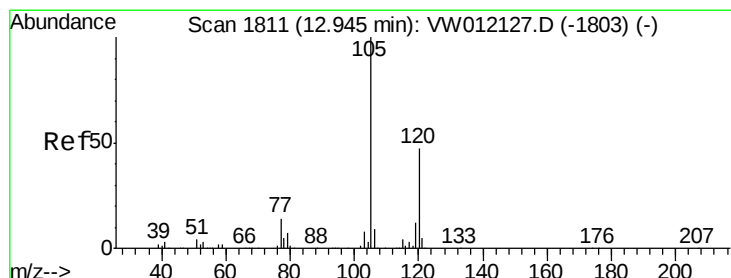
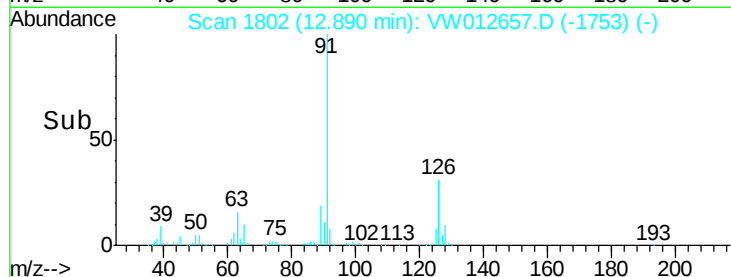
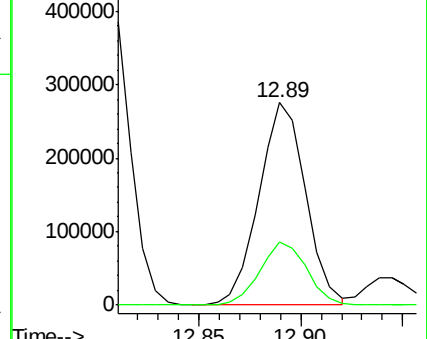
MMDadoda

9/6/2019 12:29:41 PM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 58.224 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW012657.D

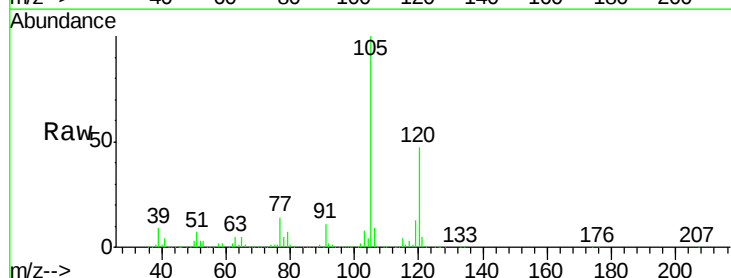
Acq: 05 Sep 2019 22:20

Tgt Ion: 105 Resp: 538354

Ion Ratio Lower Upper

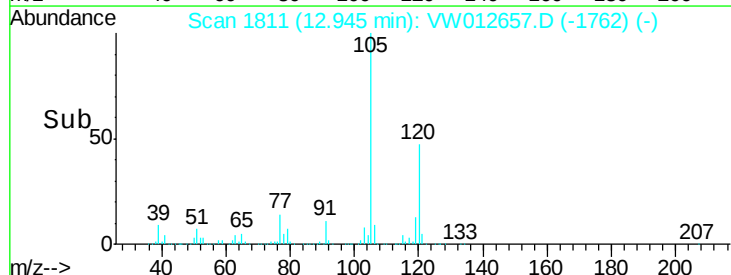
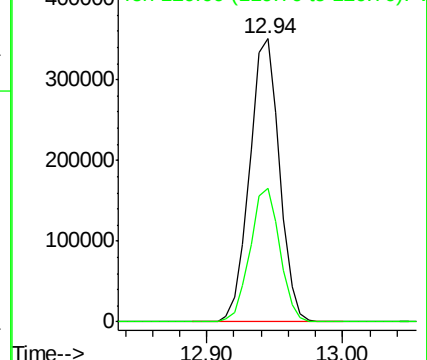
105 100

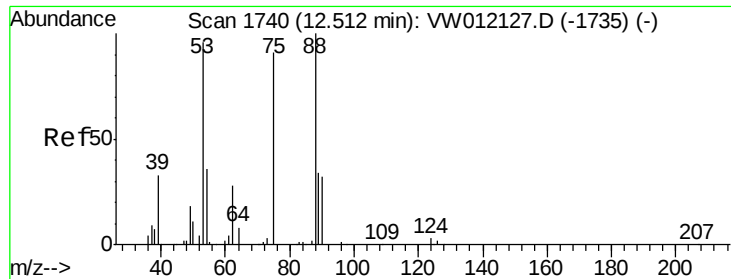
120 47.2 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 60.467 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

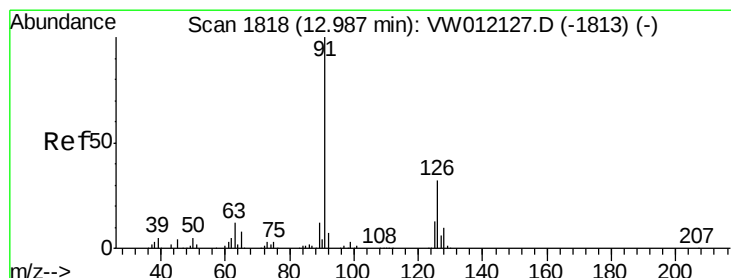
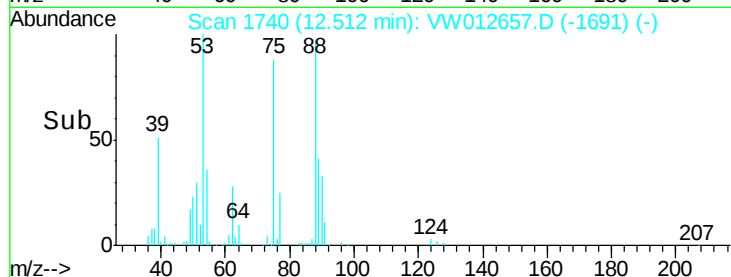
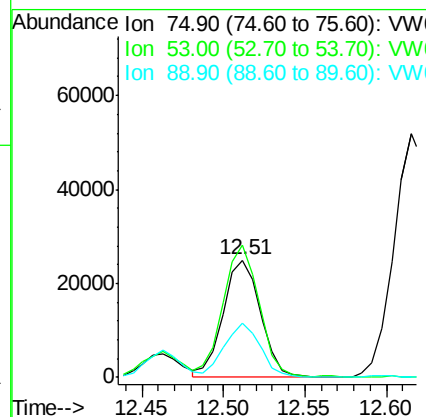
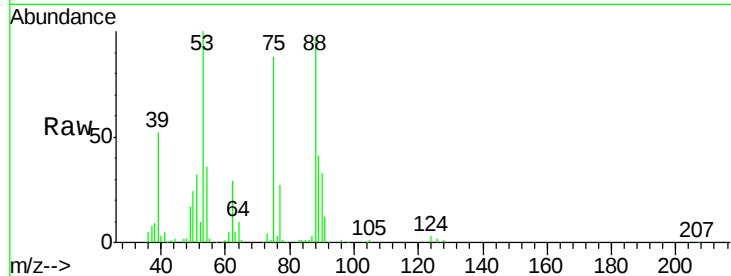
ClientSampleId :

VSTDCCC050

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 75    | Resp: | 39665 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 111.3 | 89.4  | 134.0 |
| 89        | 44.5  | 34.5  | 51.7  |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#82

4-Chlorotoluene

Concen: 57.064 ug/l

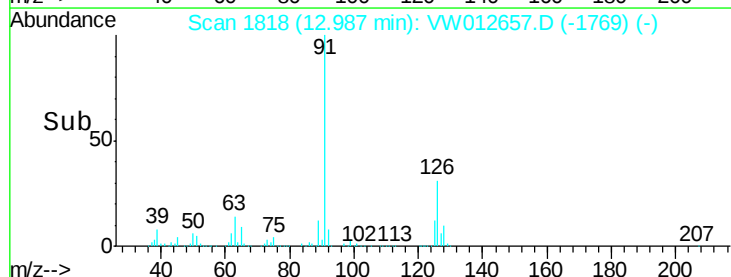
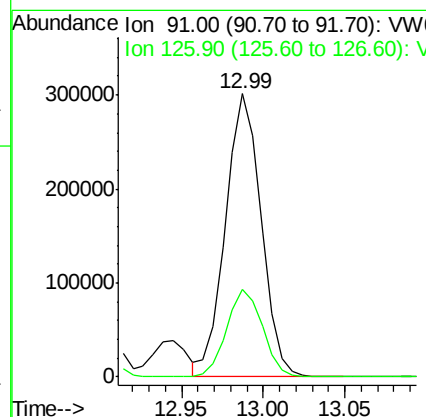
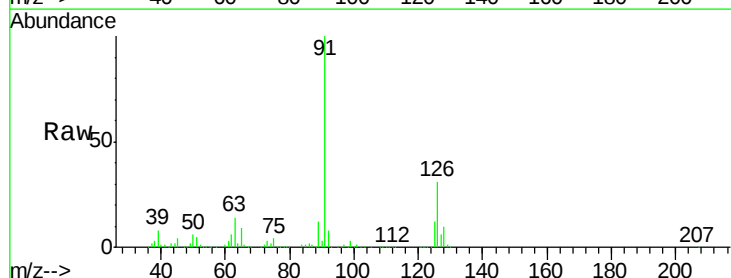
RT: 12.99 min Scan# 1818

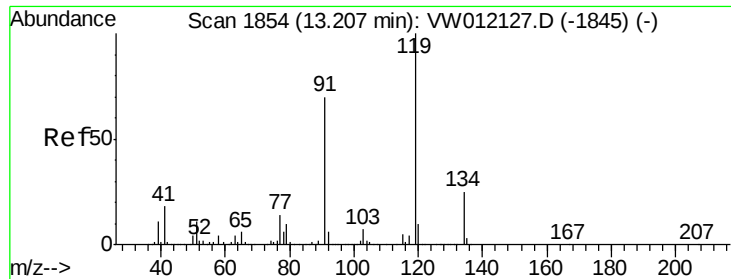
Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 458256 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 31.3  | 15.6  | 46.8   |





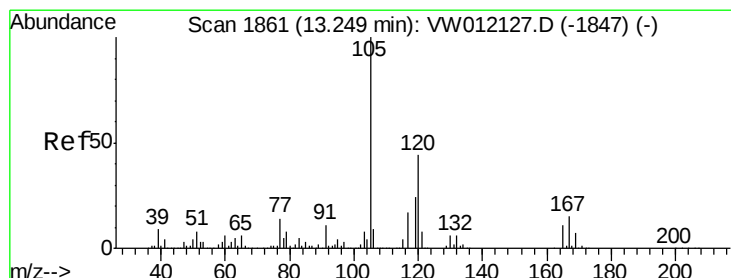
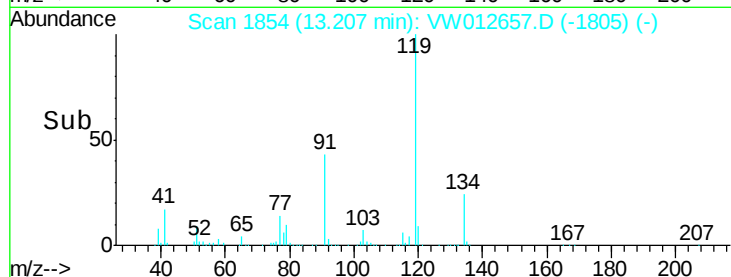
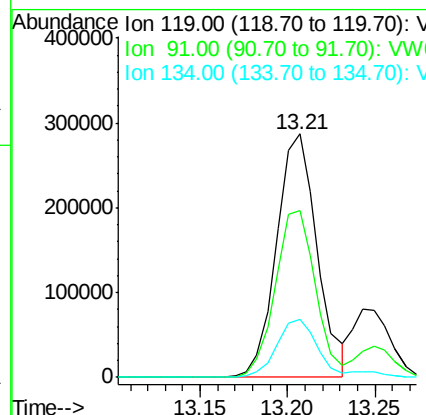
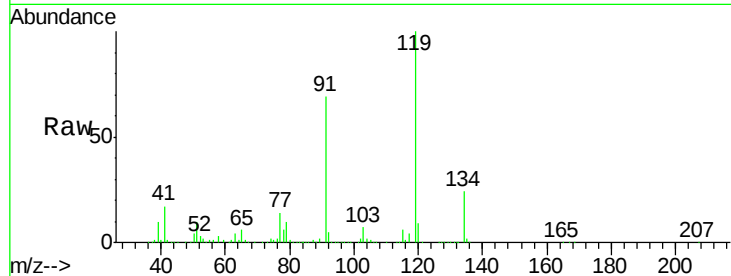
#83  
tert-Butylbenzene  
Concen: 59.339 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 67.9  | 34.8  | 104.3 |
| 134     | 25.7  | 13.3  | 39.8  |

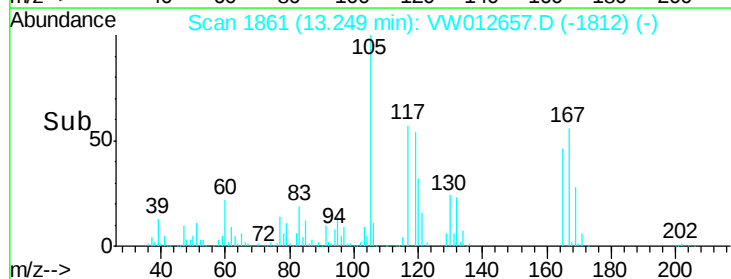
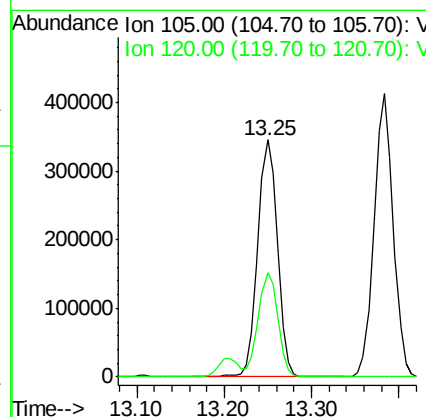
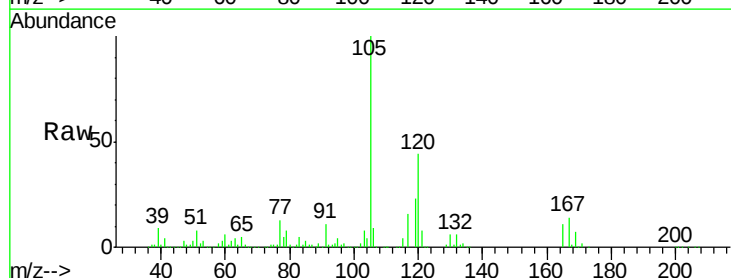
Manual Integrations  
APPROVED

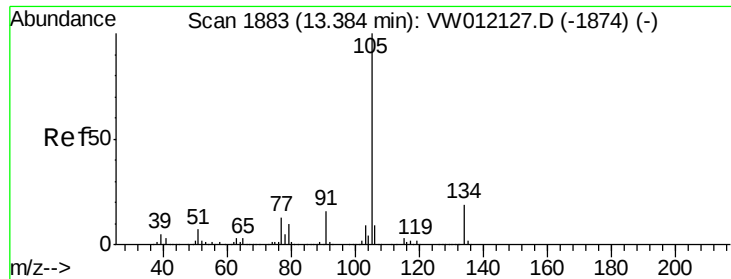
MMDadoda  
9/6/2019 12:29:41 PM



#84  
1,2,4-Trimethylbenzene  
Concen: 57.993 ug/l  
RT: 13.25 min Scan# 1861  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 43.3  | 21.9  | 65.7  |





#85

sec-Butylbenzene

Concen: 56.235 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 631027

Ion Ratio Lower Upper

105 100

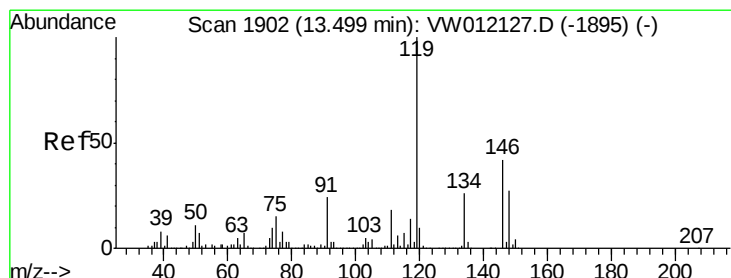
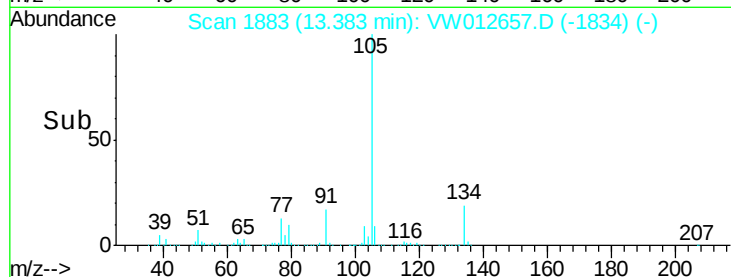
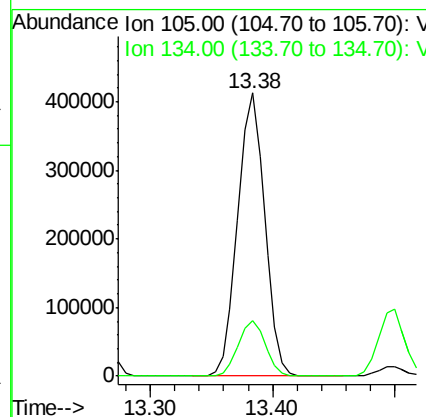
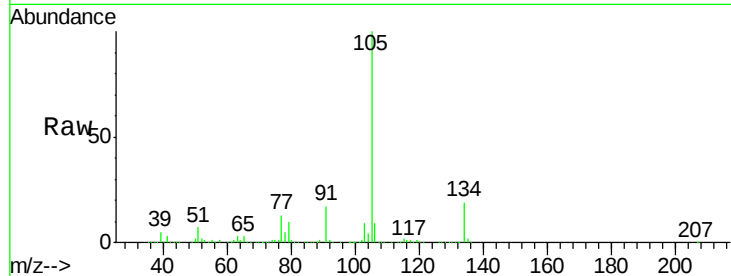
134 19.6 9.8 29.4

Manual Integrations

APPROVED

MMDadoda

9/6/2019 12:29:41 PM



#86

p-Isopropyltoluene

Concen: 57.890 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

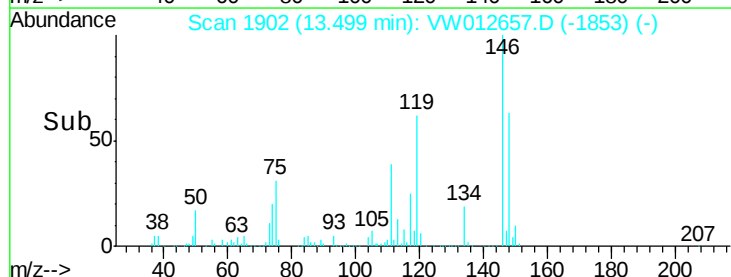
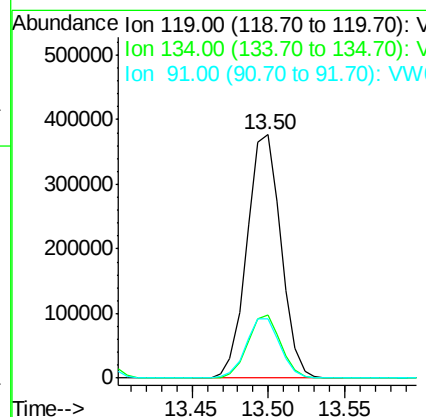
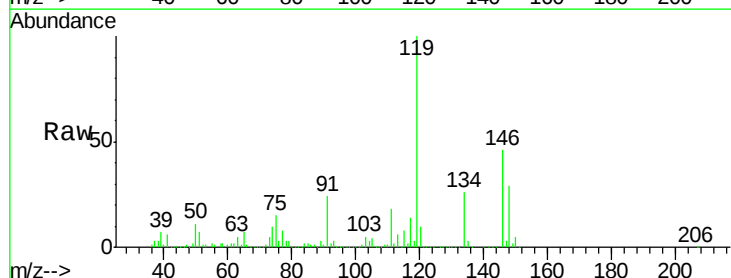
Tgt Ion:119 Resp: 580130

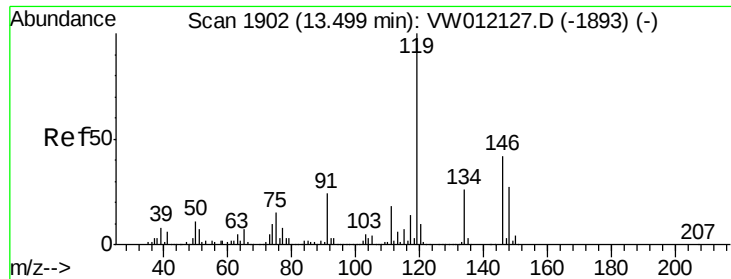
Ion Ratio Lower Upper

119 100

134 25.2 12.8 38.3

91 24.3 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 58.599 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

Instrument :

MSVOA\_W

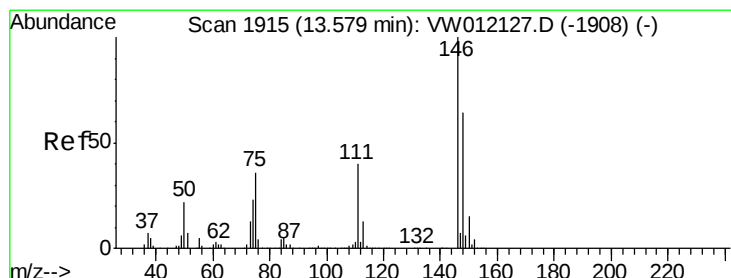
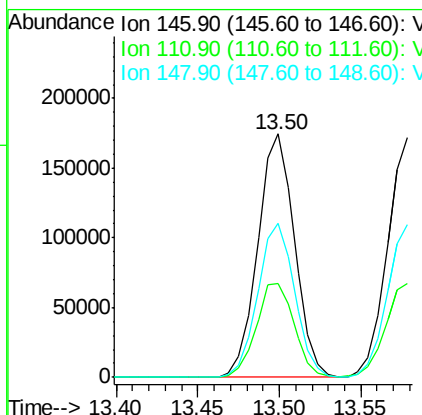
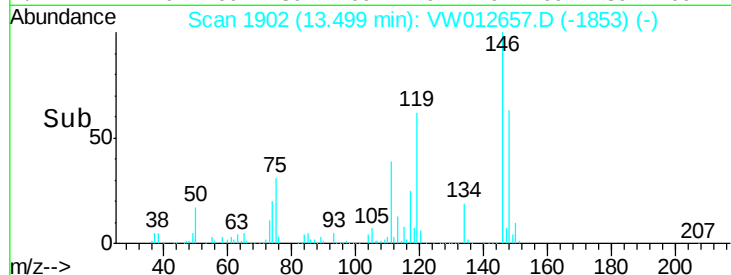
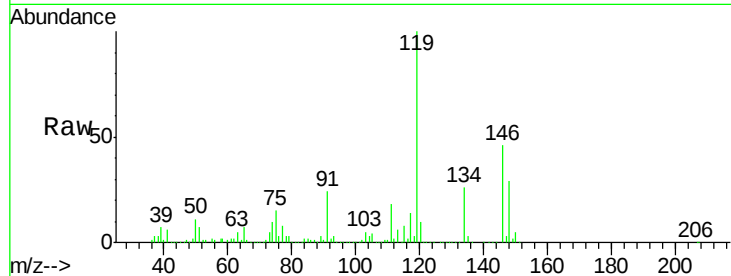
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 274383 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 40.1  | 20.9  | 62.7   |
| 148       | 63.3  | 32.2  | 96.6   |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#88

1,4-Dichlorobenzene

Concen: 58.087 ug/l

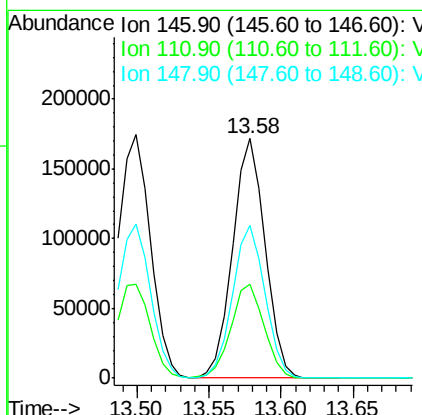
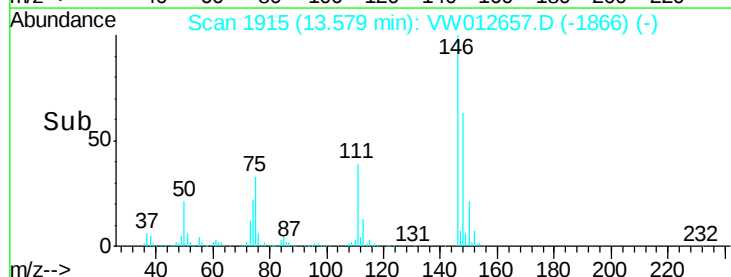
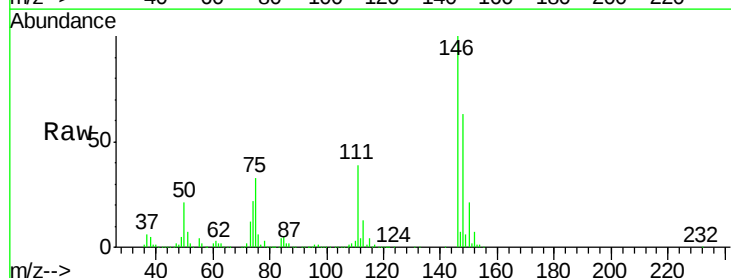
RT: 13.58 min Scan# 1915

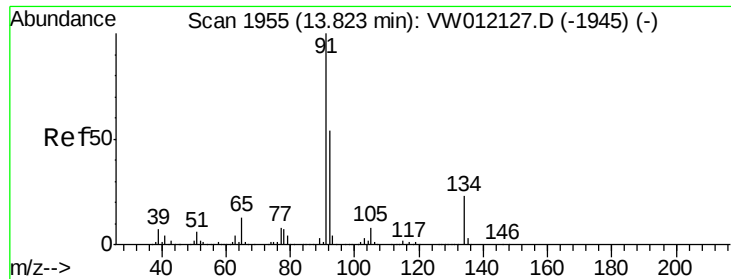
Delta R.T. -0.00 min

Lab File: VW012657.D

Acq: 05 Sep 2019 22:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 270063 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 40.2  | 20.0  | 60.0   |
| 148       | 63.6  | 32.1  | 96.3   |





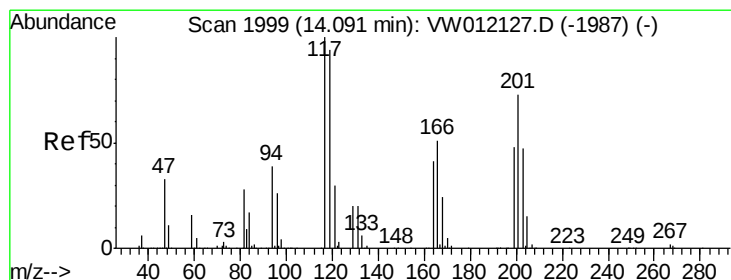
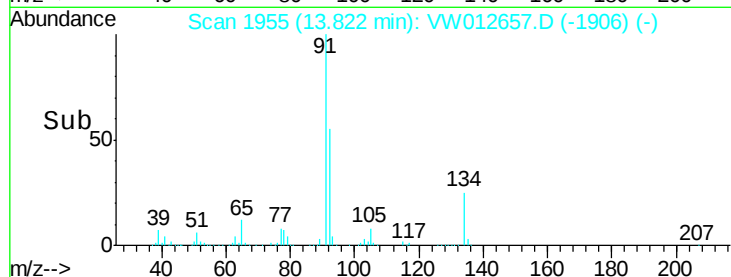
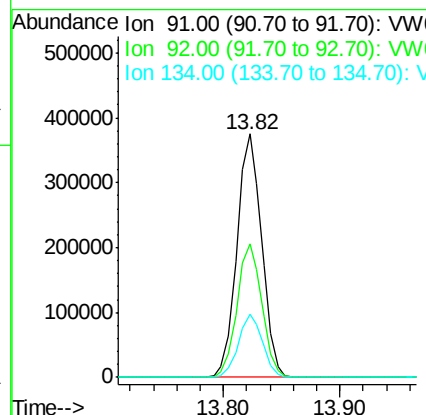
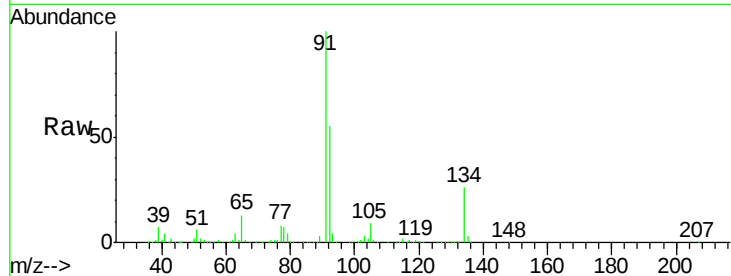
#89  
n-Butylbenzene  
Concen: 55.745 ug/l  
RT: 13.82 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 555529 |       |       |
| 92      | 54.9  |        | 27.1  | 81.2  |
| 134     | 25.3  |        | 12.2  | 36.4  |

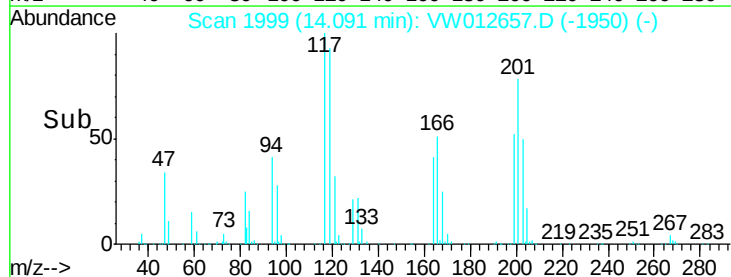
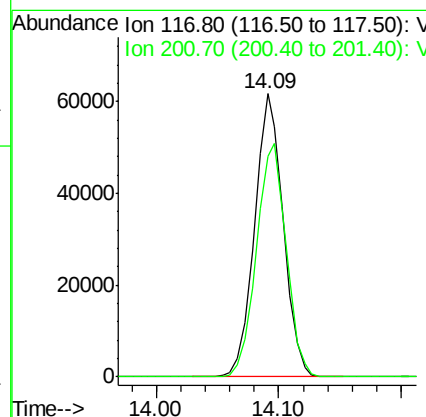
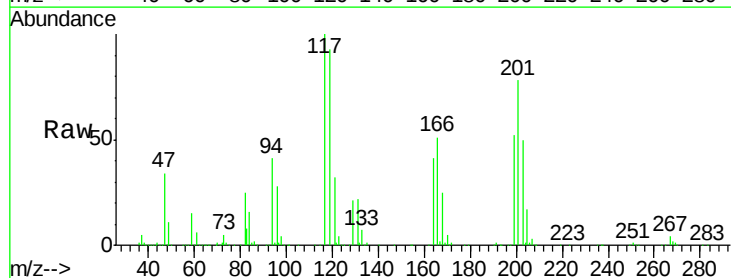
Manual Integrations  
APPROVED

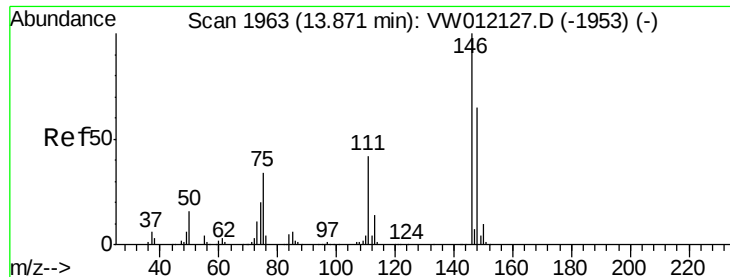
MMDadoda  
9/6/2019 12:29:41 PM



#90  
Hexachloroethane  
Concen: 57.028 ug/l  
RT: 14.09 min Scan# 1999  
Delta R.T. -0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 100267 |       |       |
| 201     | 86.0  |        | 38.6  | 115.7 |





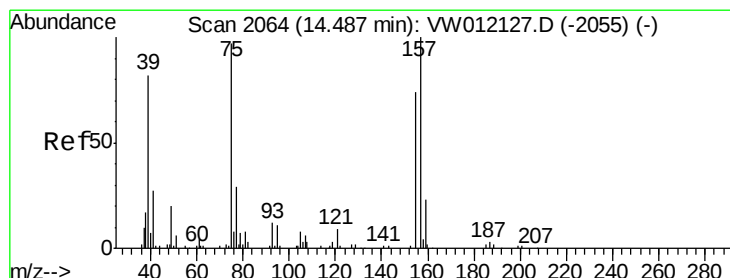
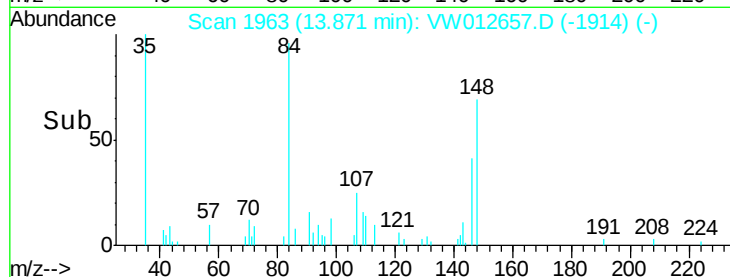
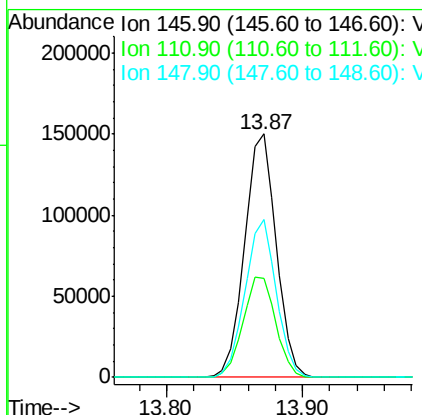
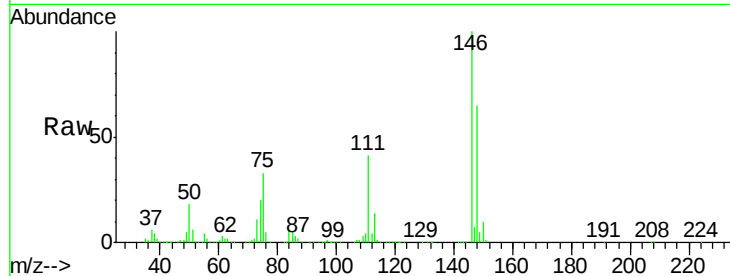
#91  
 1,2-Dichlorobenzene  
 Concen: 59.445 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.7  | 21.2  | 63.6  |
| 148     | 64.0  | 32.5  | 97.4  |

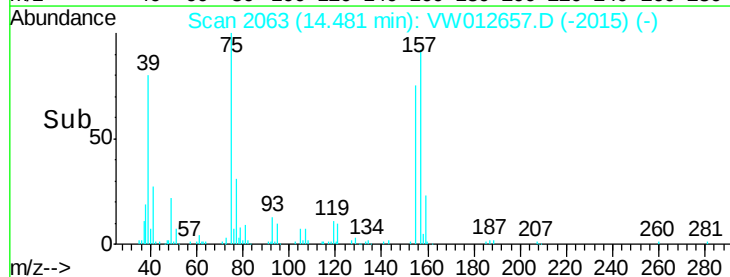
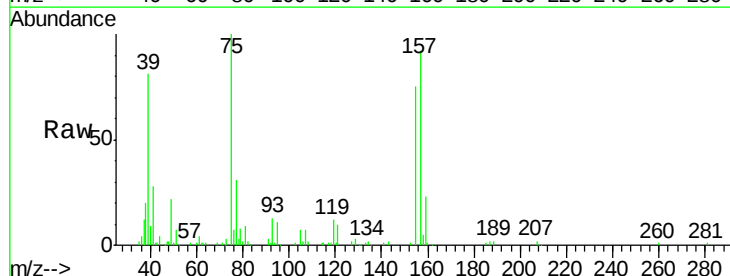
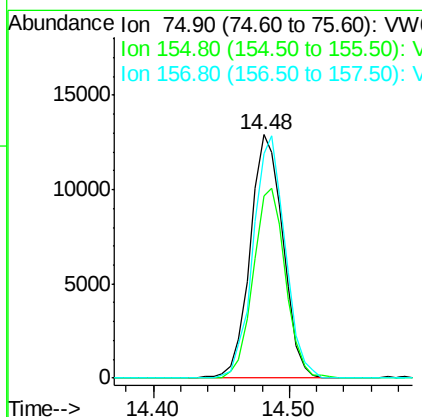
Manual Integrations  
 APPROVED

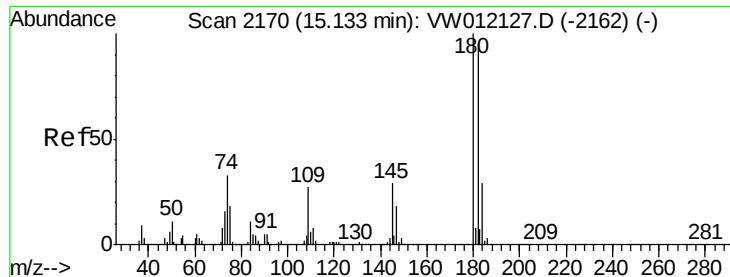
MMDadoda  
 9/6/2019 12:29:41 PM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 63.752 ug/l  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 76.8  | 37.5  | 112.3 |
| 157     | 96.9  | 50.5  | 151.5 |





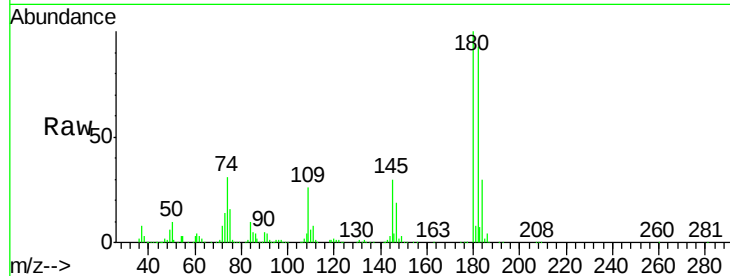
#93  
 1,2,4-Trichlorobenzene  
 Concen: 60.999 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

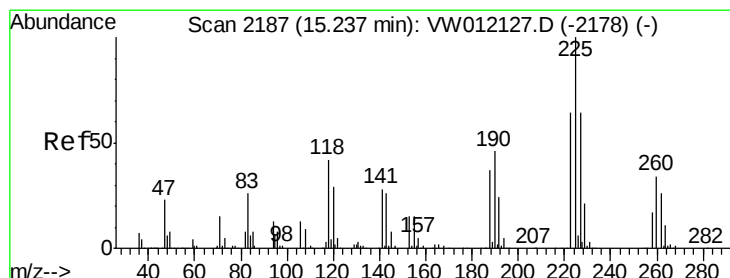
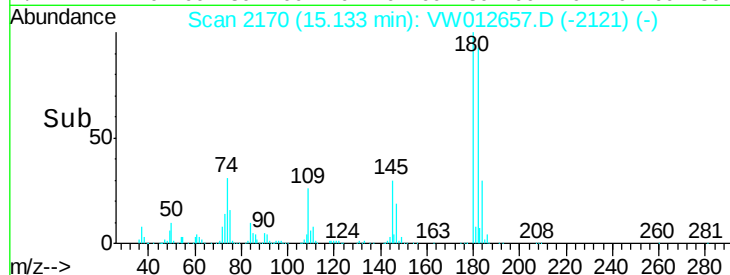
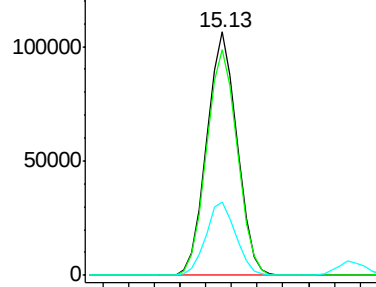
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 173154 |       |       |
| 182     | 94.1  | 47.8   | 143.4 |       |
| 145     | 29.8  | 15.0   | 45.1  |       |

Manual Integrations  
 APPROVED

MMDadoda  
 9/6/2019 12:29:41 PM

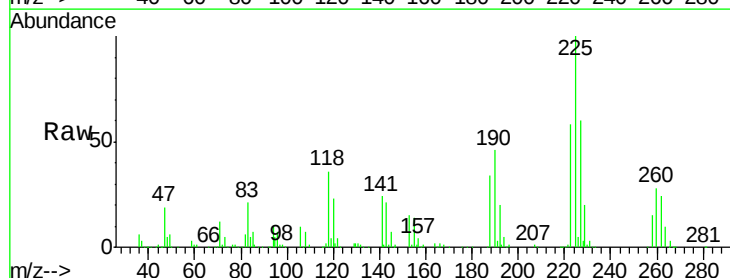


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

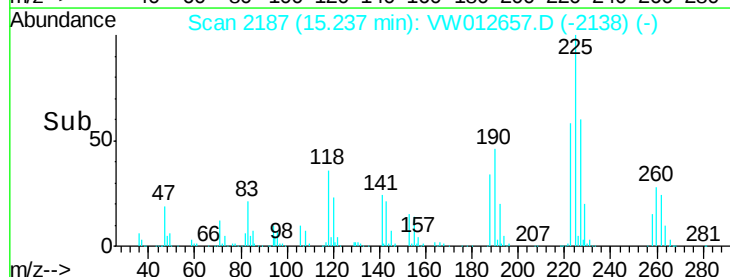
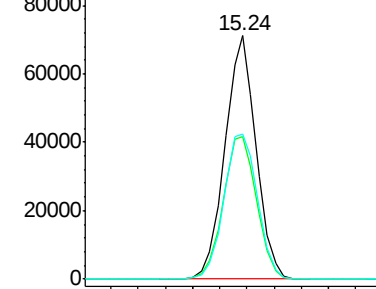


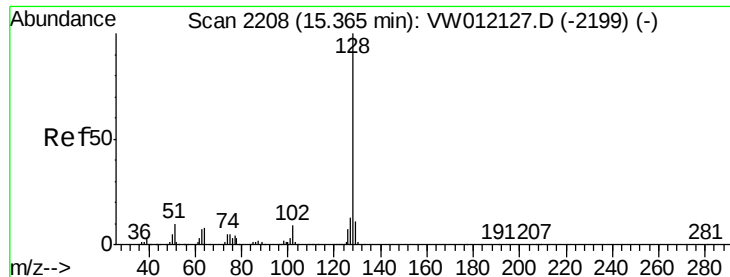
#94  
 Hexachlorobutadiene  
 Concen: 60.752 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW012657.D  
 Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 113871 |       |       |
| 223     | 62.7  | 32.3   | 96.8  |       |
| 227     | 64.4  | 32.9   | 98.6  |       |



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V





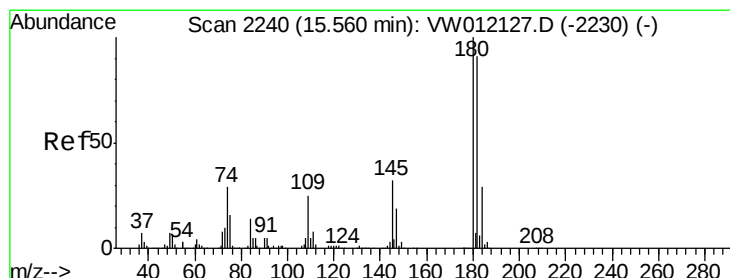
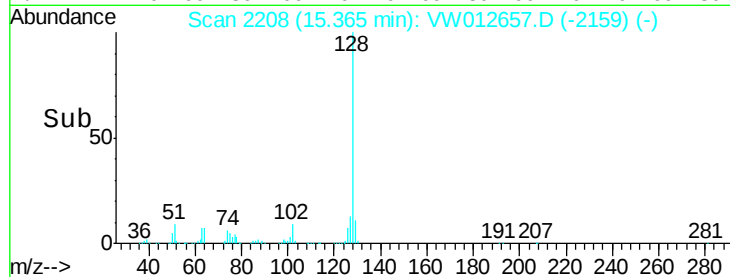
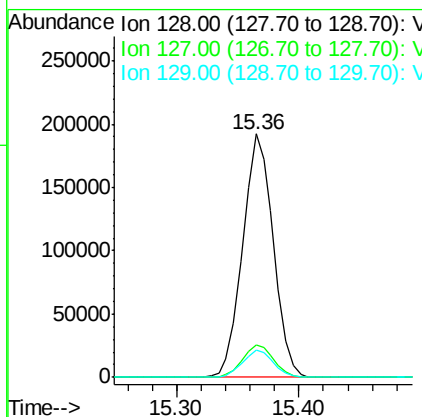
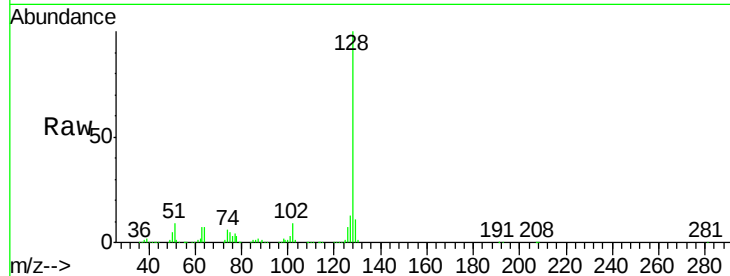
#95  
Naphthalene  
Concen: 59.007 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 333429 |       |       |
| 127     | 13.6  |        | 10.7  | 16.1  |
| 129     | 11.1  |        | 8.7   | 13.1  |

Manual Integrations  
APPROVED

MMDadoda  
9/6/2019 12:29:41 PM



#96  
1,2,3-Trichlorobenzene  
Concen: 62.955 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: VW012657.D  
Acq: 05 Sep 2019 22:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 155918 |       |       |
| 182     | 94.9  |        | 47.1  | 141.3 |
| 145     | 31.6  |        | 16.2  | 48.5  |

