

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\  
 Data File : VF060382.D  
 Acq On : 28 Sep 2018 22:13  
 Operator : VA/AP  
 Sample : VF0928SBSD01  
 Misc : 5.00/5mL/MSVOA F/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBSD01

Manual Integrations  
 APPROVED

apatel  
 10/1/2018 3:03:56 PM

Quant Time: Sep 29 01:16:39 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 20 02:58:42 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene         | 5.02  | 168  | 237102   | 50.00   | ug/l   | -0.02    |
| 34) 1,4-Difluorobenzene       | 5.75  | 114  | 418753   | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.90  | 117  | 354648   | 50.00   | ug/l   | -0.02    |
| 72) 1,4-Dichlorobenzene-d4    | 12.62 | 152  | 191800   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds   |       |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.00  | 65   | 156467   | 49.01   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 98.02% |          |
| 35) Dibromofluoromethane      | 4.27  | 113  | 177679   | 47.60   | ug/l   | -0.02    |
| Spiked Amount 50.000          |       |      | Recovery | =       | 95.20% |          |
| 50) Toluene-d8                | 7.69  | 98   | 423758   | 43.59   | ug/l   | -0.02    |
| Spiked Amount 50.000          |       |      | Recovery | =       | 87.18% |          |
| 62) 4-Bromofluorobenzene      | 11.49 | 95   | 175660   | 41.80   | ug/l   | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 83.60% |          |
| Target Compounds              |       |      |          |         |        |          |
|                               |       |      |          |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 0.99  | 85   | 121332   | 31.906  | ug/l   | 100      |
| 3) Chloromethane              | 1.11  | 50   | 95602    | 29.588  | ug/l   | 95       |
| 4) Vinyl Chloride             | 1.17  | 62   | 95468    | 28.992  | ug/l   | 93       |
| 5) Bromomethane               | 1.34  | 94   | 61766    | 30.523  | ug/l   | 91       |
| 6) Chloroethane               | 1.42  | 64   | 41909    | 26.724  | ug/l   | 100      |
| 7) Trichlorofluoromethane     | 1.53  | 101  | 178856   | 29.155  | ug/l   | 98       |
| 8) Diethyl Ether              | 1.69  | 74   | 25376    | 24.862  | ug/l   | 54       |
| 9) 1,1,2-Trichlorotrifluoroet | 1.88  | 101  | 98307    | 30.132  | ug/l # | 85       |
| 10) Methyl Iodide             | 1.95  | 142  | 157179   | 29.875  | ug/l   | 95       |
| 11) Tert butyl alcohol        | 2.66  | 59   | 26712    | 142.745 | ug/l   | 96       |
| 12) 1,1-Dichloroethene        | 1.84  | 96   | 84053    | 31.152  | ug/l   | 92       |
| 13) Acrolein                  | 2.07  | 56   | 9987     | 144.488 | ug/l   | 87       |
| 14) Allyl chloride            | 2.18  | 41   | 133991   | 28.457  | ug/l   | 95       |
| 15) Acrylonitrile             | 3.06  | 53   | 61206    | 135.739 | ug/l   | 87       |
| 16) Acetone                   | 2.32  | 43   | 107742   | 119.830 | ug/l   | 100      |
| 17) Carbon Disulfide          | 1.88  | 76   | 239022   | 32.887  | ug/l   | 97       |
| 18) Methyl Acetate            | 2.44  | 43   | 37838    | 25.261  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether   | 2.52  | 73   | 194177   | 28.868  | ug/l   | 99       |
| 20) Methylene Chloride        | 2.27  | 84   | 86963m   | 33.332  | ug/l   |          |
| 21) trans-1,2-Dichloroethene  | 2.40  | 96   | 80596    | 28.921  | ug/l   | 95       |
| 22) Diisopropyl ether         | 2.91  | 45   | 237349   | 26.717  | ug/l   | 98       |
| 23) Vinyl Acetate             | 3.31  | 43   | 473855   | 135.811 | ug/l   | 98       |
| 24) 1,1-Dichloroethane        | 2.99  | 63   | 150595   | 26.139  | ug/l   | 98       |
| 25) 2-Butanone                | 4.49  | 43   | 128414   | 106.109 | ug/l   | 95       |
| 26) 2,2-Dichloropropane       | 3.75  | 77   | 84399    | 25.674  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene    | 3.62  | 96   | 91963    | 25.119  | ug/l   | 90       |
| 28) Bromochloromethane        | 3.87  | 49   | 60426    | 26.939  | ug/l   | 99       |
| 29) Tetrahydrofuran           | 4.23  | 42   | 56449    | 127.372 | ug/l   | 100      |
| 30) Chloroform                | 4.01  | 83   | 181766   | 26.147  | ug/l   | 98       |
| 31) Cyclohexane               | 3.85  | 56   | 128788   | 26.464  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane     | 4.25  | 97   | 146760   | 26.755  | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 4.44  | 75   | 123371   | 23.619  | ug/l   | 97       |
| 37) Ethyl Acetate             | 4.26  | 43   | 51796    | 23.436  | ug/l # | 75       |
| 38) Carbon Tetrachloride      | 4.15  | 117  | 138506   | 24.687  | ug/l   | 97       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\  
 Data File : VF060382.D  
 Acq On : 28 Sep 2018 22:13  
 Operator : VA/AP  
 Sample : VF0928SBSD01  
 Misc : 5.00/5mL/MSVOA F/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBSD01

Manual Integrations  
 APPROVED

apatel  
 10/1/2018 3:03:56 PM

Quant Time: Sep 29 01:16:39 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 20 02:58:42 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.61  | 83   | 143342   | 25.321  | ug/l   | 96       |
| 40) Benzene                    | 4.78  | 78   | 281655   | 23.781  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.90  | 41   | 27712    | 23.107  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 5.10  | 62   | 96823    | 22.210  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 7.09  | 43   | 59481    | 22.355  | ug/l   | 97       |
| 44) Trichloroethene            | 5.66  | 130  | 89985    | 25.529  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 6.38  | 63   | 71713    | 23.395  | ug/l   | 100      |
| 46) Dibromomethane             | 6.23  | 93   | 52109    | 23.783  | ug/l   | 94       |
| 47) Bromodichloromethane       | 6.53  | 83   | 112924   | 21.446  | ug/l   | 95       |
| 48) Methyl methacrylate        | 6.85  | 41   | 40525    | 21.697  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.85  | 88   | 6842     | 410.036 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone       | 8.39  | 43   | 218893   | 106.740 | ug/l   | 98       |
| 52) Toluene                    | 7.76  | 92   | 168761   | 22.523  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.41  | 75   | 97310    | 22.911  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.44  | 75   | 120854   | 22.587  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane      | 8.62  | 97   | 52642    | 23.148  | ug/l   | 89       |
| 56) Ethyl methacrylate         | 8.74  | 69   | 58001    | 21.118  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 8.98  | 76   | 86450    | 22.959  | ug/l   | 91       |
| 58) 2-Chloroethyl Vinyl ether  | 7.76  | 63   | 26823    | 110.473 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.61  | 43   | 136634   | 93.577  | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.84  | 129  | 75463    | 22.264  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.12  | 107  | 56316    | 22.238  | ug/l   | 83       |
| 64) Tetrachloroethene          | 8.29  | 164  | 76028    | 23.648  | ug/l   | 96       |
| 65) Chlorobenzene              | 9.93  | 112  | 193765   | 24.106  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 83621    | 25.068  | ug/l   | 95       |
| 67) Ethyl Benzene              | 10.03 | 91   | 365181   | 24.572  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.25 | 106  | 257610   | 50.172  | ug/l   | 94       |
| 69) o-Xylene                   | 10.81 | 106  | 133597   | 23.198  | ug/l   | 87       |
| 70) Styrene                    | 10.88 | 104  | 194064   | 23.894  | ug/l   | 94       |
| 71) Bromoform                  | 10.87 | 173  | 39947    | 21.805  | ug/l   | 96       |
| 73) Isopropylbenzene           | 11.22 | 105  | 414151   | 24.053  | ug/l   | 97       |
| 74) N-amyl acetate             | 11.45 | 43   | 81307    | 22.144  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 75284    | 24.671  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.87 | 75   | 54013    | 24.721  | ug/l   | 83       |
| 77) Bromobenzene               | 11.58 | 156  | 84647    | 22.811  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.67 | 91   | 480648   | 23.982  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 276409   | 23.798  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 346420   | 24.994  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 24551m   | 21.262  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 273179   | 23.401  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 343394   | 24.440  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 338746   | 24.069  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 476842   | 24.961  | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 391562   | 26.180  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 164020   | 23.654  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 160995   | 23.490  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.90 | 91   | 417240   | 25.337  | ug/l   | 97       |
| 90) Hexachloroethane           | 12.98 | 117  | 90870    | 23.112  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 162581   | 24.579  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 13266    | 23.155  | ug/l   | 91       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF092818\  
 Data File : VF060382.D  
 Acq On : 28 Sep 2018 22:13  
 Operator : VA/AP  
 Sample : VF0928SBSD01  
 Misc : 5.00/5mL/MSVOA F/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBSD01

Manual Integrations  
 APPROVED

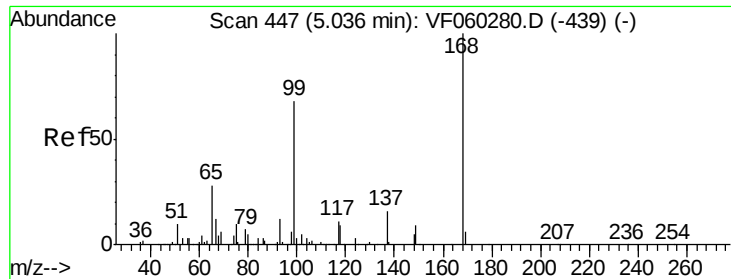
apatel  
 10/1/2018 3:03:56 PM

Quant Time: Sep 29 01:16:39 2018  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 20 02:58:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 115090   | 23.938 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 71833    | 22.102 | ug/l  | 93       |
| 95) Naphthalene            | 14.51 | 128  | 204617   | 24.274 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 107005   | 24.086 | ug/l  | 96       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBSD01

Tot Ion:168 Resp: 237102

Ion Ratio Lower Upper

168 100

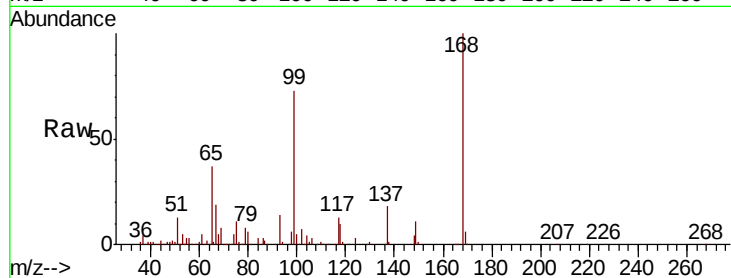
99 72.6 54.8 82.2

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

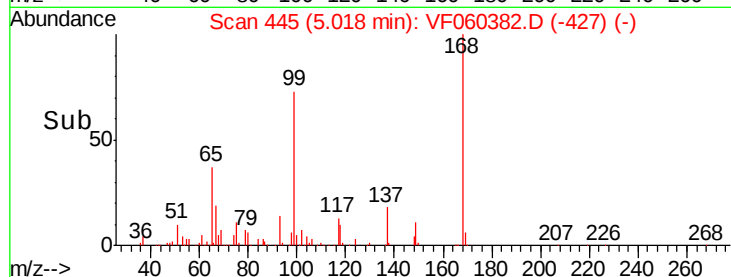
60000

40000

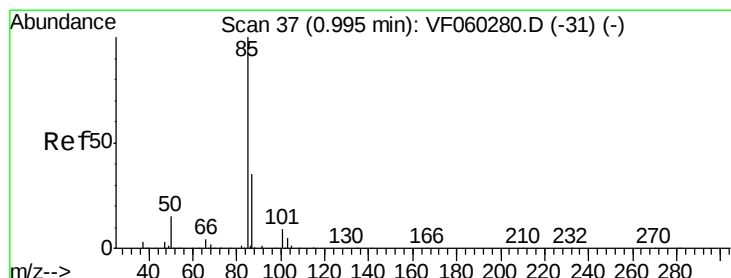
20000

0

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 31.906 ug/l

RT: 0.99 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060382.D

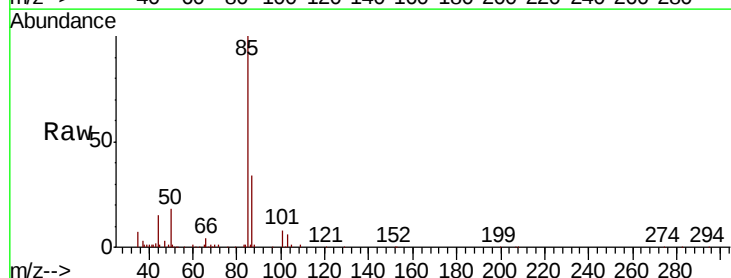
Acq: 28 Sep 2018 22:13

Tgt Ion: 85 Resp: 121332

Ion Ratio Lower Upper

85 100

87 34.4 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

50000

40000

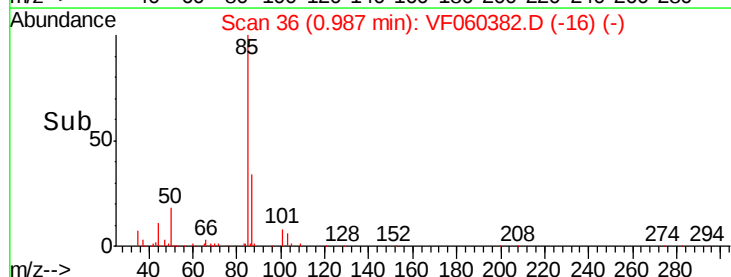
30000

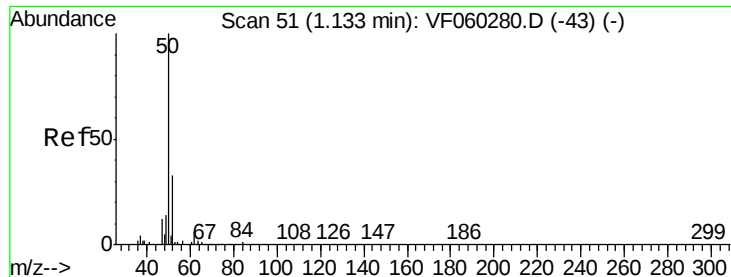
20000

10000

0

Time-->





#3

Chloromethane

Concen: 29.588 ug/l

RT: 1.11 min Scan# 49

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 50 Resp: 95602

Ion Ratio Lower Upper

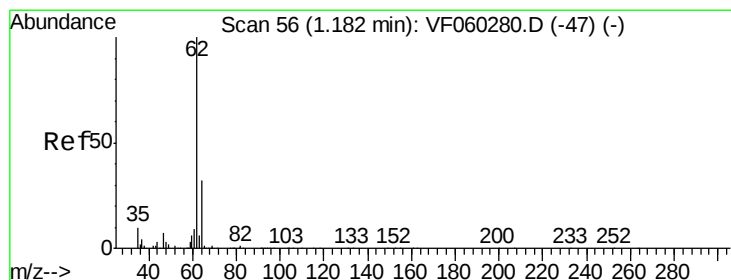
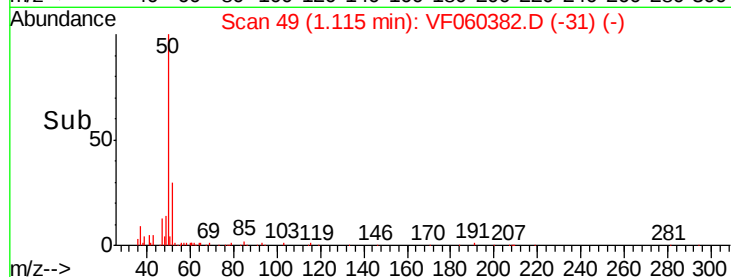
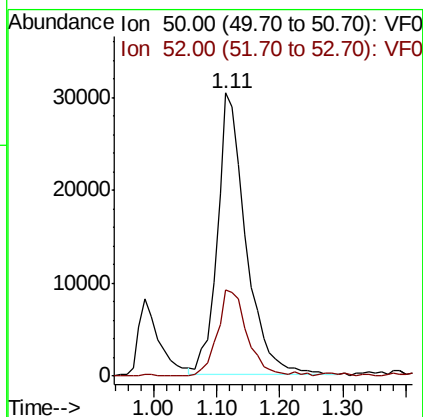
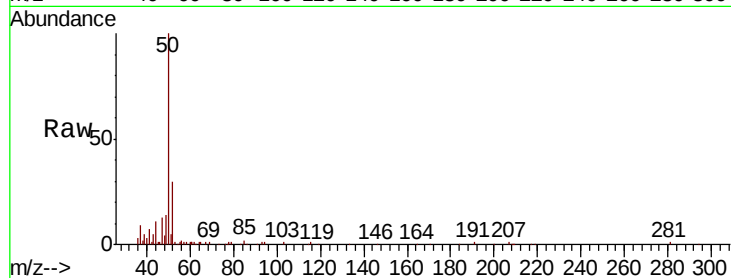
50 100

52 30.4 26.5 39.7

Manual Integrations  
APPROVED

apatel

10/1/2018 3:03:56 PM



#4

Vinyl Chloride

Concen: 28.992 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060382.D

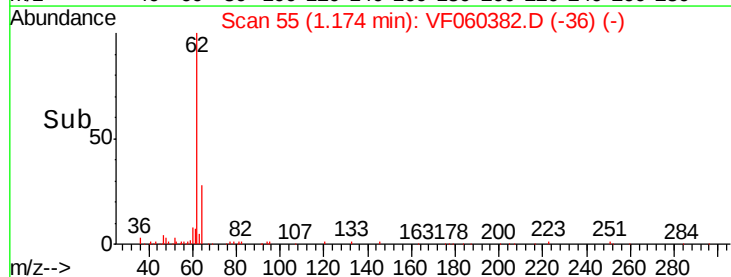
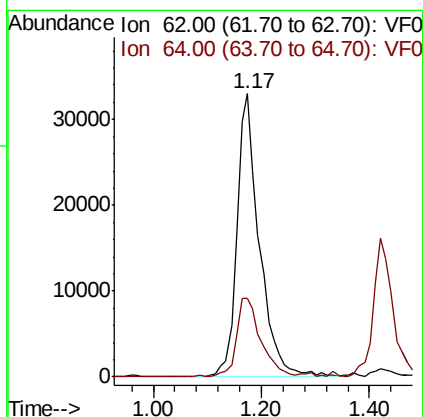
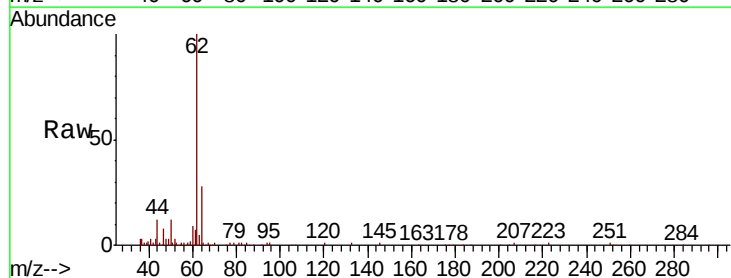
Acq: 28 Sep 2018 22:13

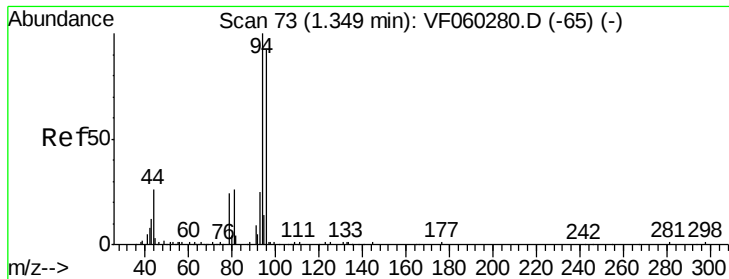
Tgt Ion: 62 Resp: 95468

Ion Ratio Lower Upper

62 100

64 27.8 25.2 37.8





#5

Bromomethane

Concen: 30.523 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBSD01

Tot Ion: 94 Resp: 61766

Ion Ratio Lower Upper

94 100

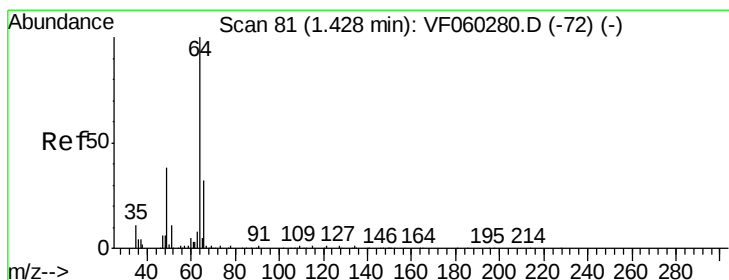
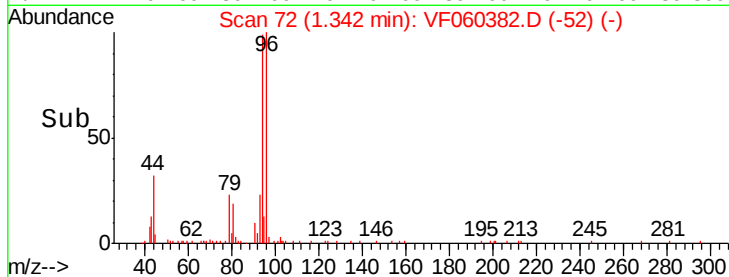
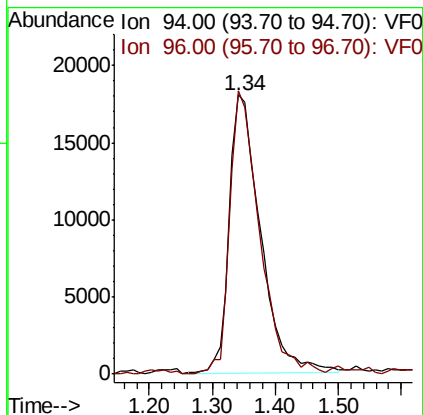
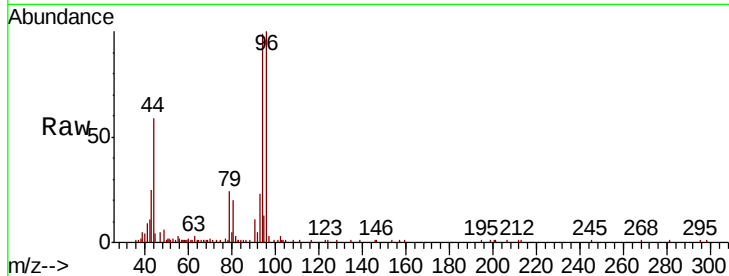
96 101.3 73.9 110.9

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#6

Chloroethane

Concen: 26.724 ug/l

RT: 1.42 min Scan# 80

Delta R.T. -0.01 min

Lab File: VF060382.D

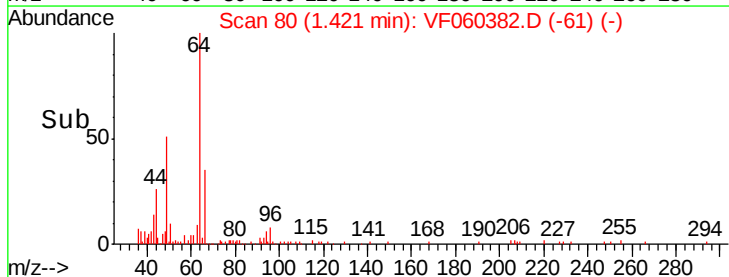
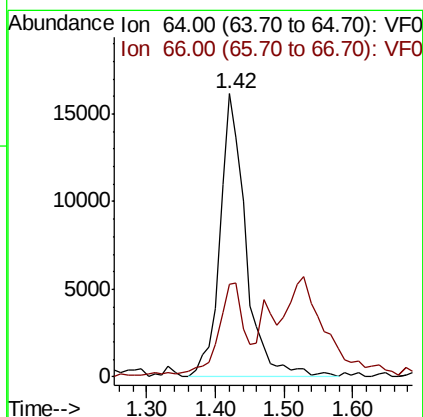
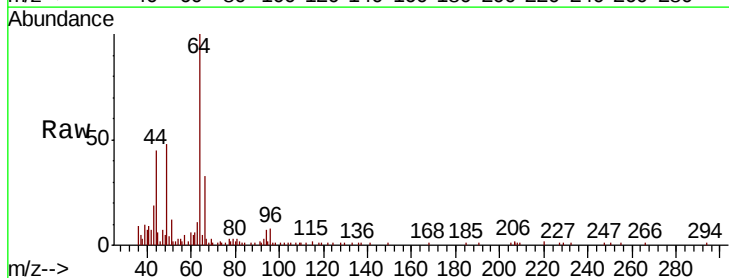
Acq: 28 Sep 2018 22:13

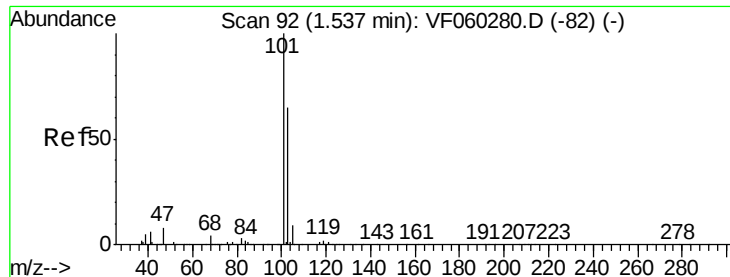
Tgt Ion: 64 Resp: 41909

Ion Ratio Lower Upper

64 100

66 32.9 26.2 39.2





#7

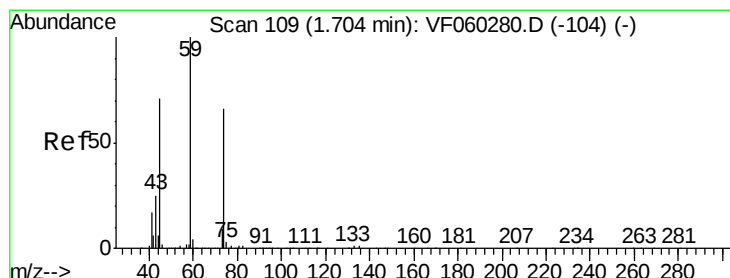
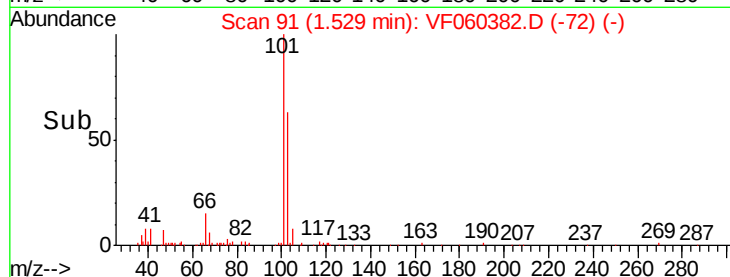
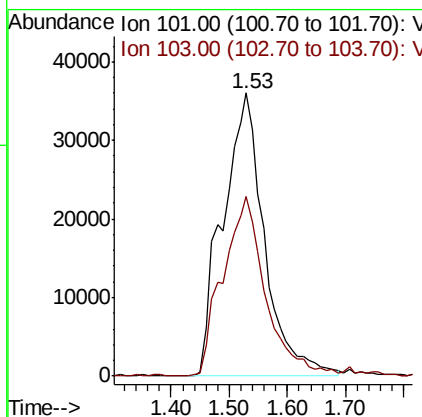
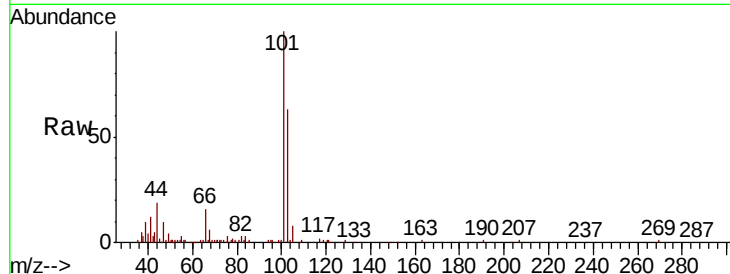
Trichlorofluoromethane  
Concen: 29.155 ug/l  
RT: 1.53 min Scan# 91  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 63.5  | 52.0  | 78.0  |

Manual Integrations  
APPROVED

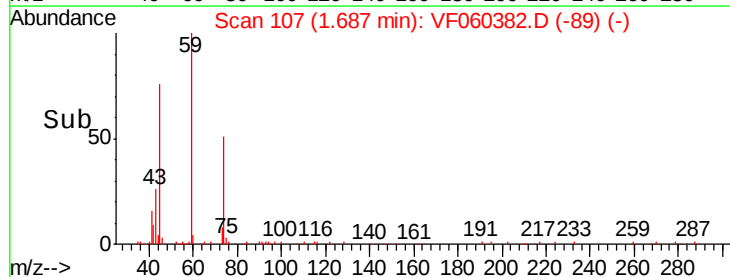
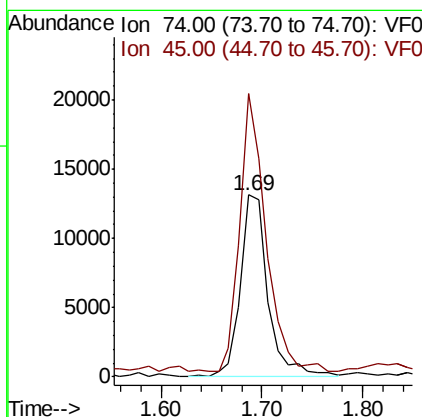
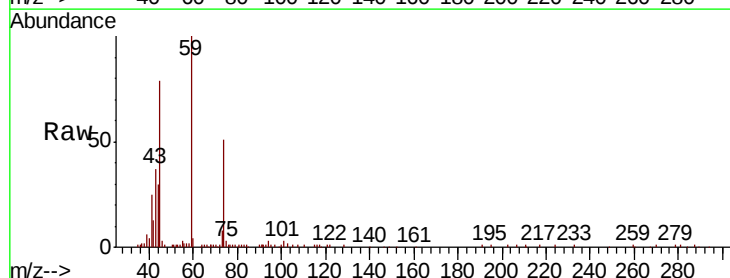
apatel  
10/1/2018 3:03:56 PM

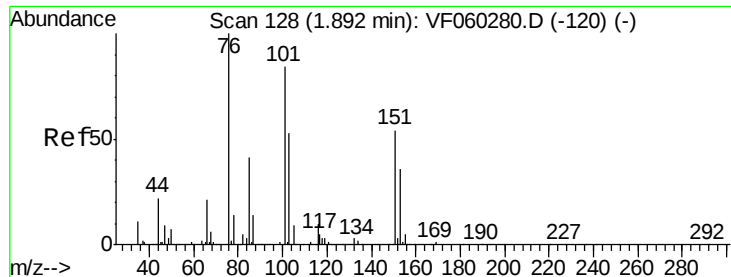


#8

Diethyl Ether  
Concen: 24.862 ug/l  
RT: 1.69 min Scan# 107  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 155.4 | 53.9  | 161.7 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 30.132 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

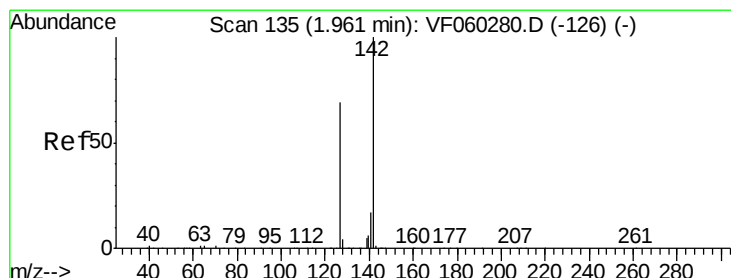
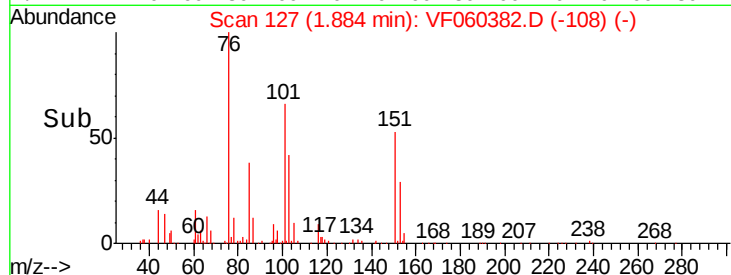
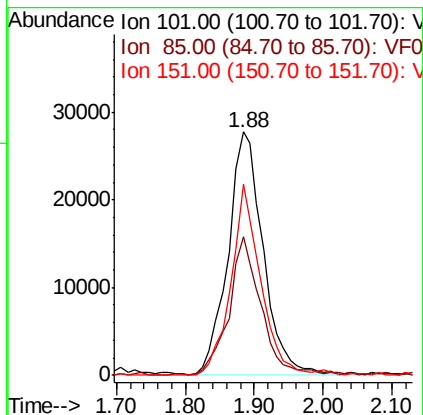
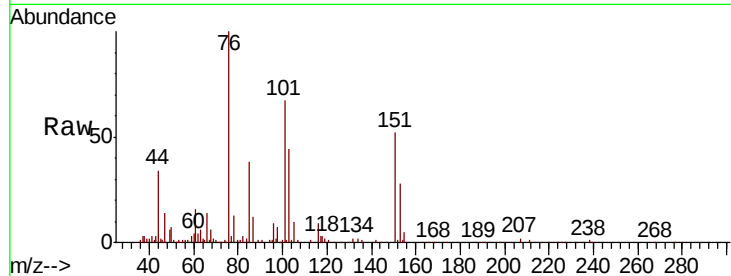
ClientSampleId :

VF0928SBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 98307 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 56.4  | 38.7  | 58.1  |
| 151       | 77.5  | 50.8  | 76.2# |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#10

Methyl Iodide

Concen: 29.875 ug/l

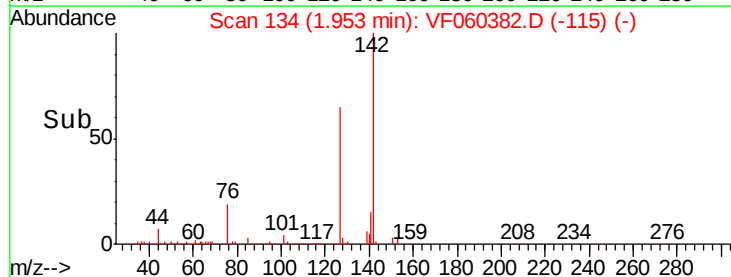
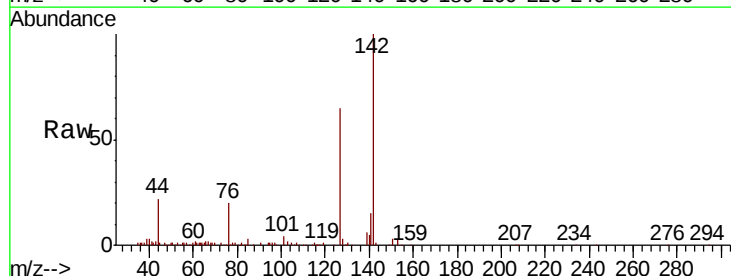
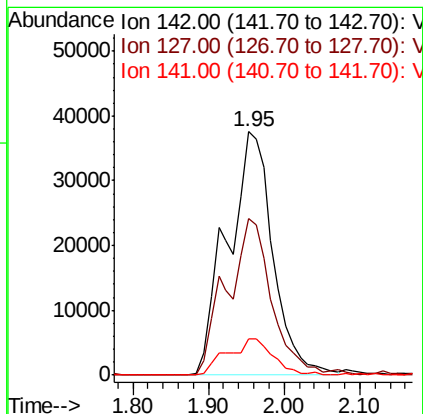
RT: 1.95 min Scan# 134

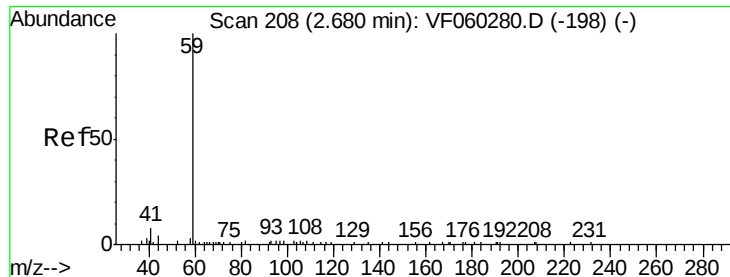
Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 157179 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 64.5  | 55.4  | 83.0   |
| 141       | 14.8  | 13.3  | 19.9   |





#11

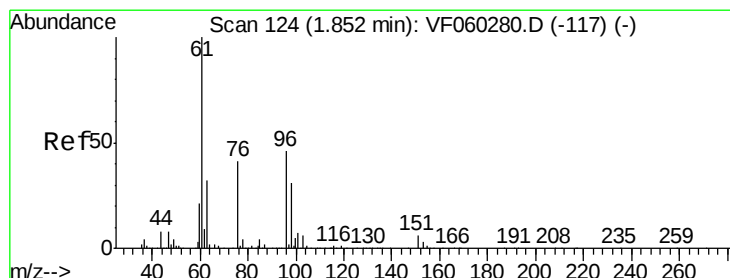
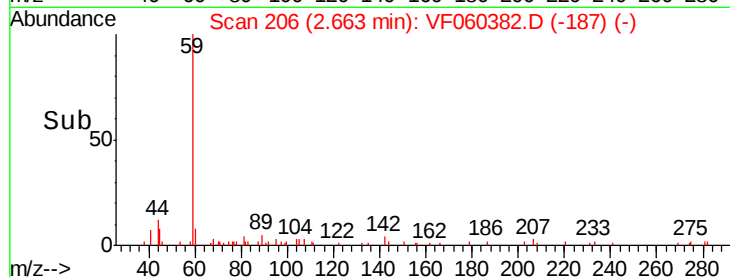
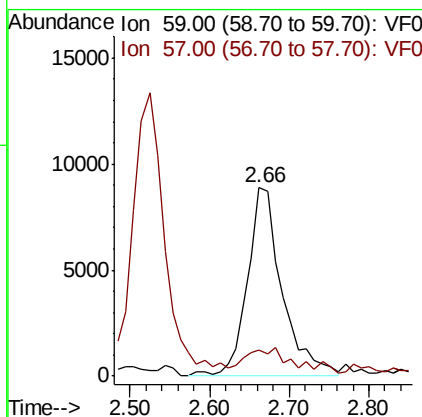
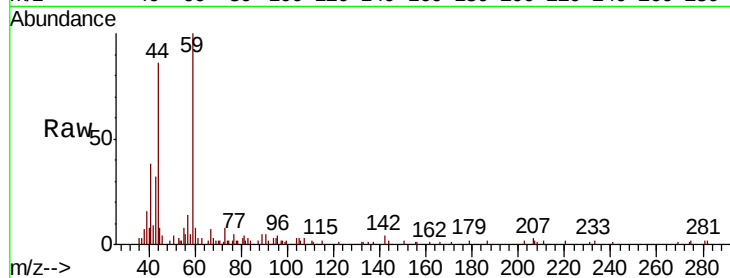
Tert butyl alcohol  
Concen: 142.745 ug/l  
RT: 2.66 min Scan# 206  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

| Tot Ion   | 59   | Resp  | 26712 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 59        | 100  |       |       |
| 57        | 13.8 | 12.4  | 18.6  |

Manual Integrations  
APPROVED

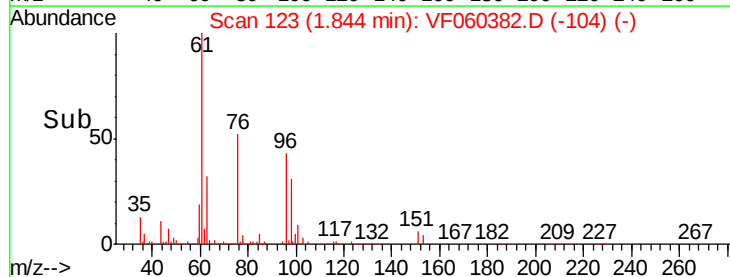
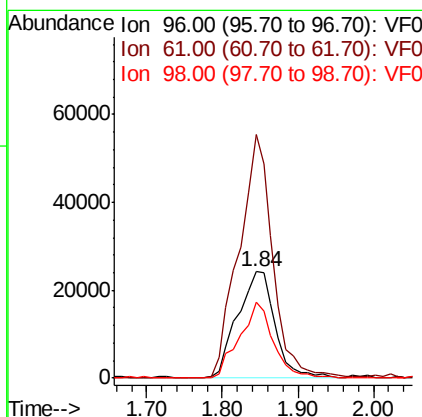
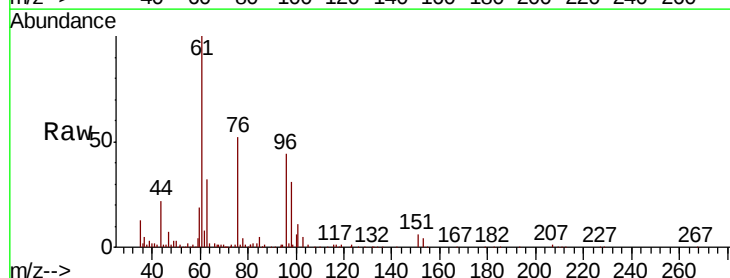
apatel  
10/1/2018 3:03:56 PM

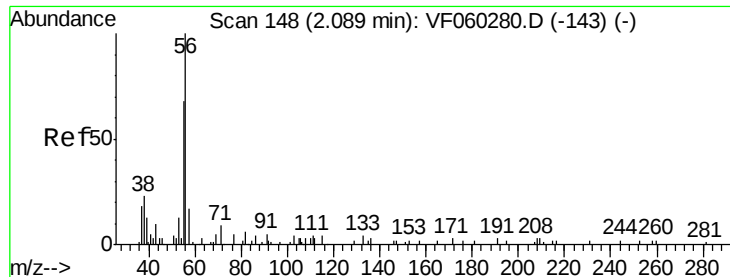


#12

1,1-Dichloroethene  
Concen: 31.152 ug/l  
RT: 1.84 min Scan# 123  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion   | 96    | Resp  | 84053 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 96        | 100   |       |       |
| 61        | 229.4 | 172.2 | 258.2 |
| 98        | 71.0  | 54.1  | 81.1  |





#13

Acrolein

Concen: 144.488 ug/l

RT: 2.07 min Scan# 146

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Tot Ion: 56 Resp: 9987

Ion Ratio Lower Upper

56 100

55 75.3 69.9 104.9

Instrument :

MSVOA\_F

ClientSampleId :

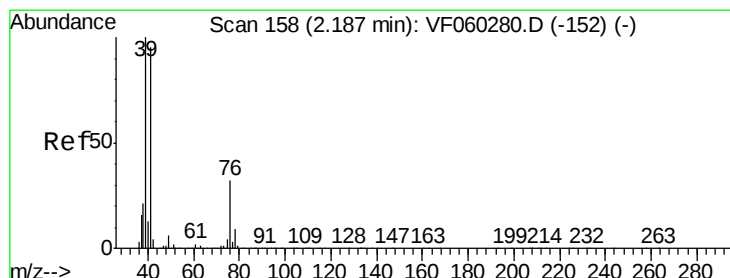
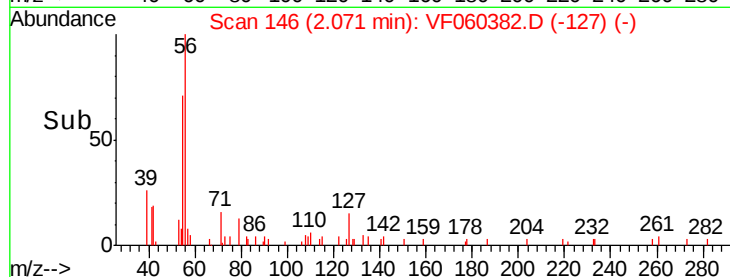
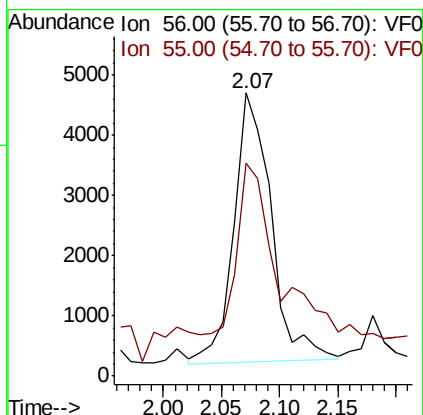
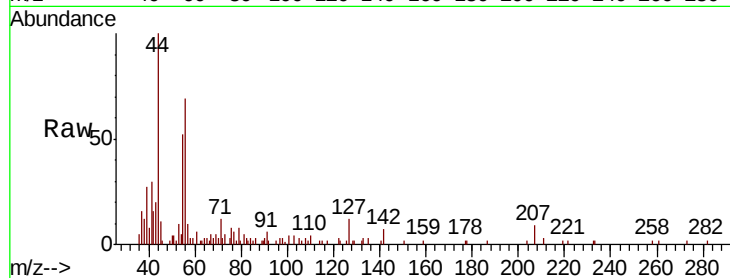
VF0928SBSD01

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#14

Allyl chloride

Concen: 28.457 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

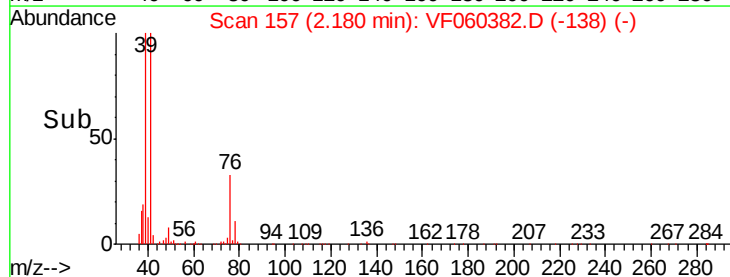
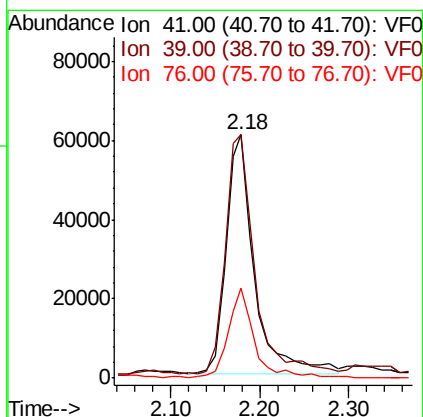
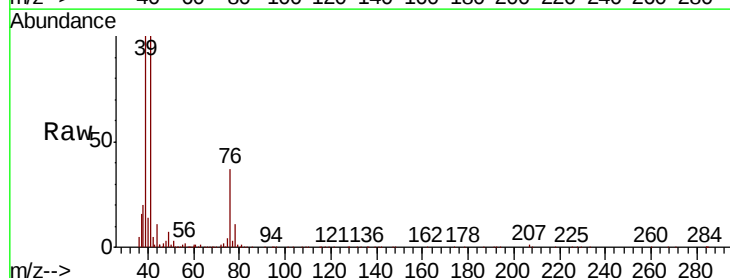
Tgt Ion: 41 Resp: 133991

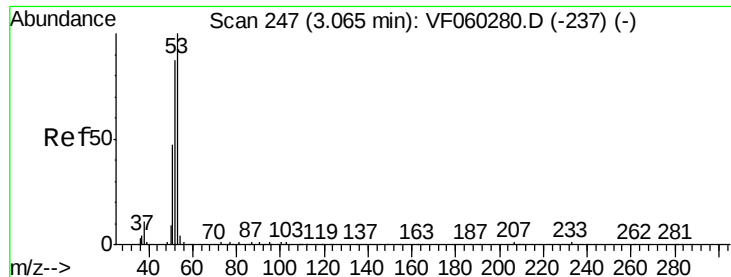
Ion Ratio Lower Upper

41 100

39 100.2 84.8 127.2

76 36.9 27.4 41.2





#15

Acrylonitrile

Concen: 135.739 ug/l

RT: 3.06 min Scan# 246

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

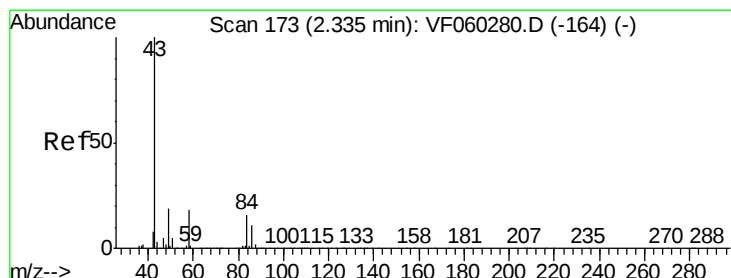
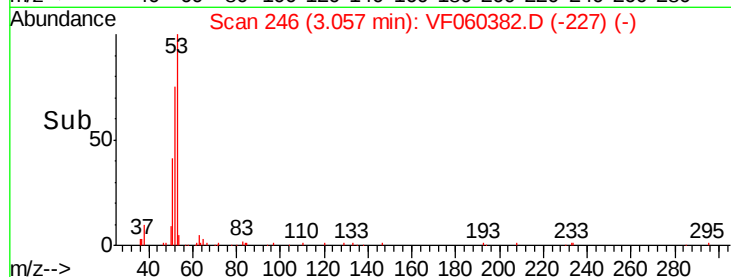
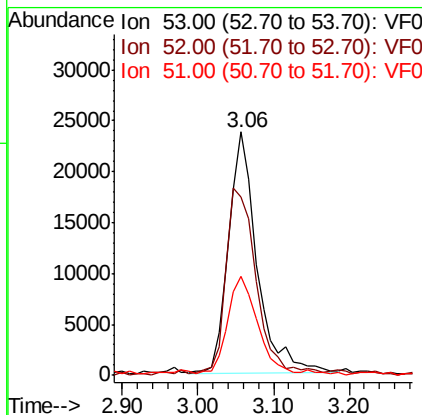
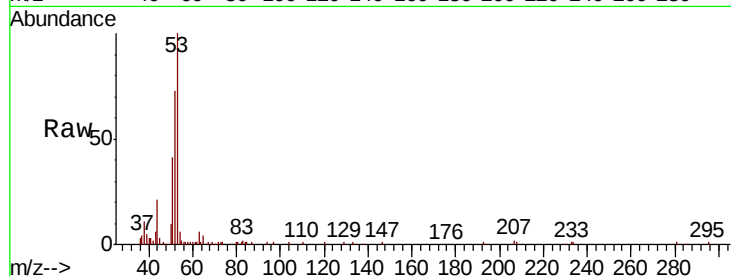
ClientSampleId :

VF0928SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 61206 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 73.3  | 69.5  | 104.3 |
| 51       | 40.8  | 38.1  | 57.1  |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#16

Acetone

Concen: 119.830 ug/l

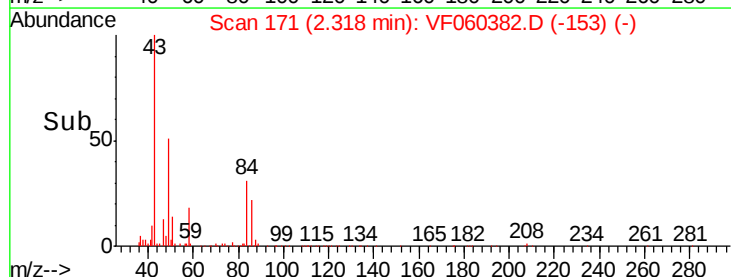
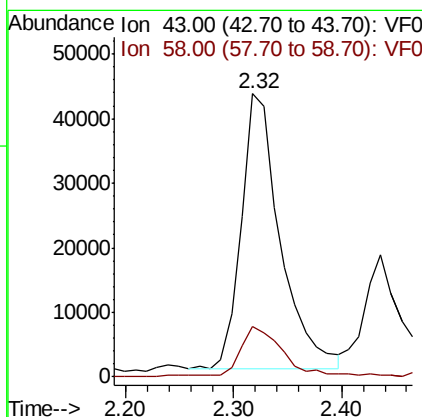
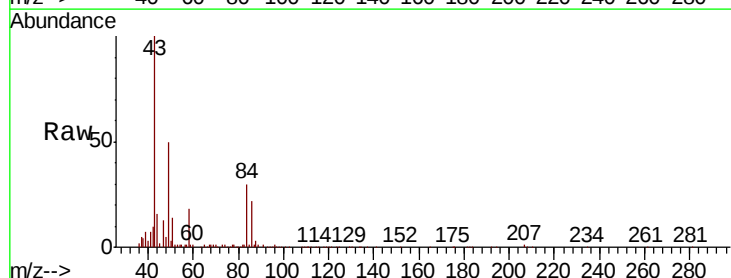
RT: 2.32 min Scan# 171

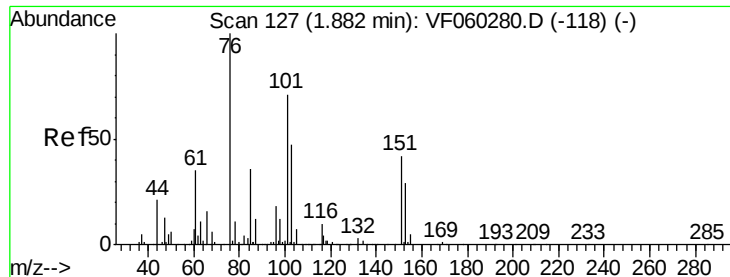
Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 107742 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 18.0  | 14.5  | 21.7   |





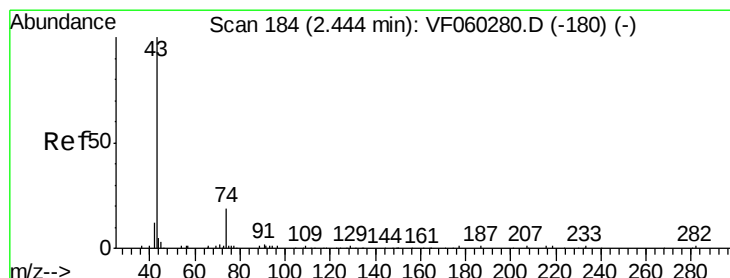
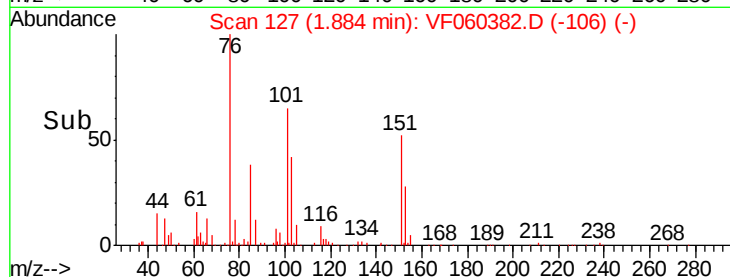
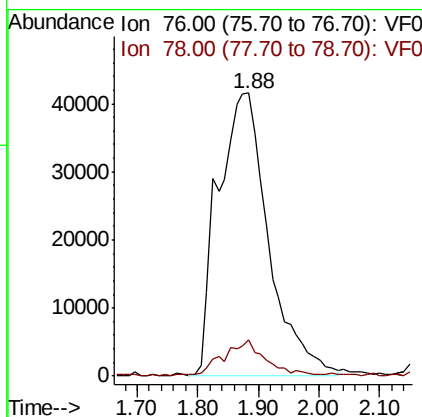
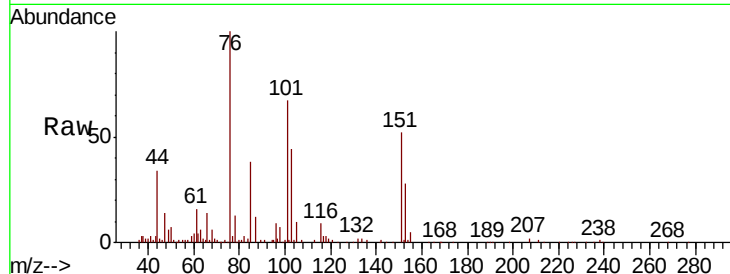
#17  
Carbon Disulfide  
Concen: 32.887 ug/l  
RT: 1.88 min Scan# 127  
Delta R.T. 0.00 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 12.8  | 9.4   | 14.0  |

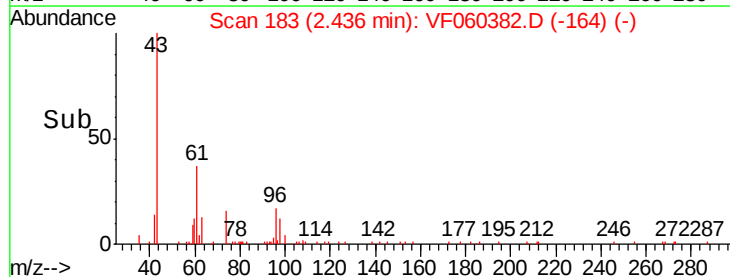
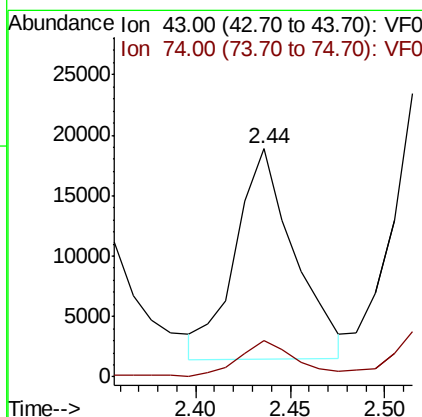
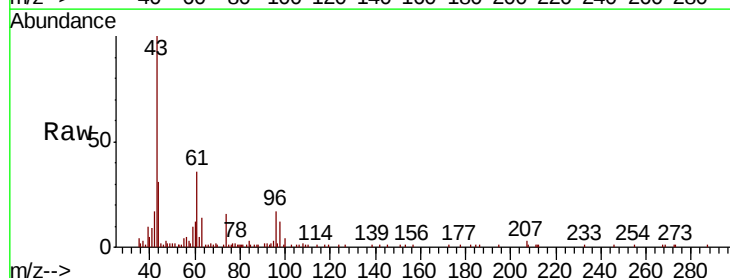
Manual Integrations  
APPROVED

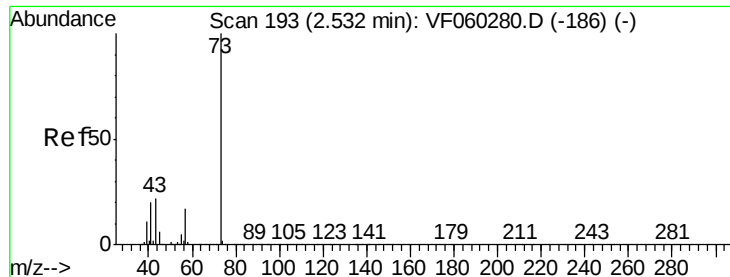
apatel  
10/1/2018 3:03:56 PM



#18  
Methyl Acetate  
Concen: 25.261 ug/l  
RT: 2.44 min Scan# 183  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 15.9  | 12.7  | 19.1  |





#19

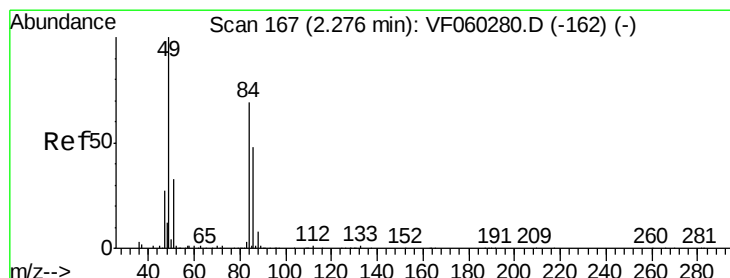
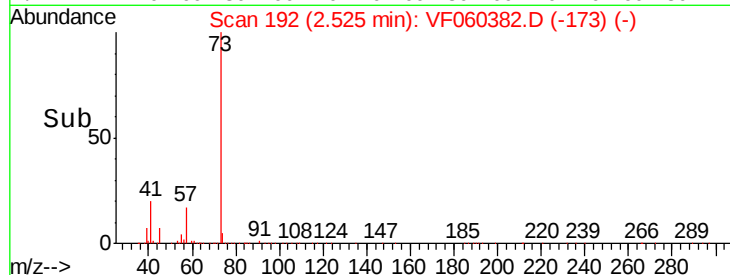
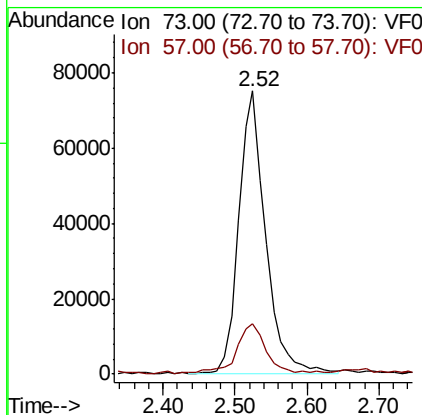
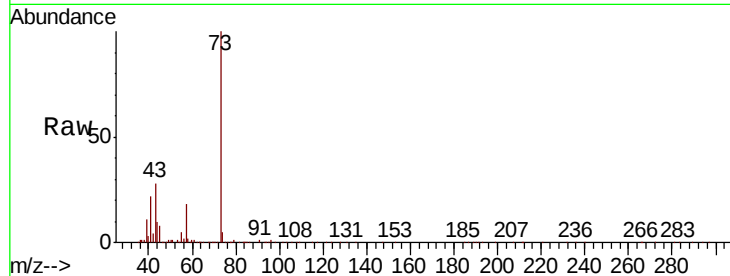
Methyl tert-butyl Ether  
 Concen: 28.868 ug/l  
 RT: 2.52 min Scan# 192  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 17.8  | 14.5  | 21.7  |

Manual Integrations  
 APPROVED

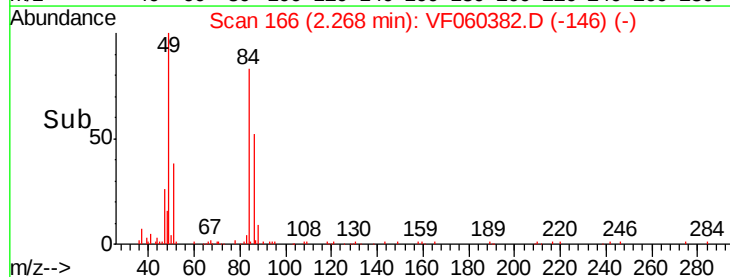
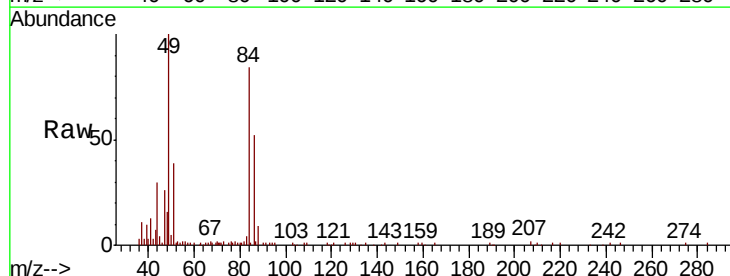
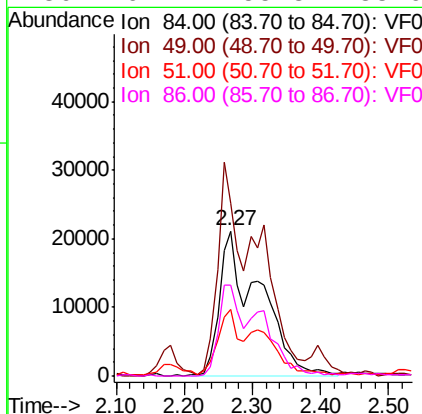
apatel  
 10/1/2018 3:03:56 PM

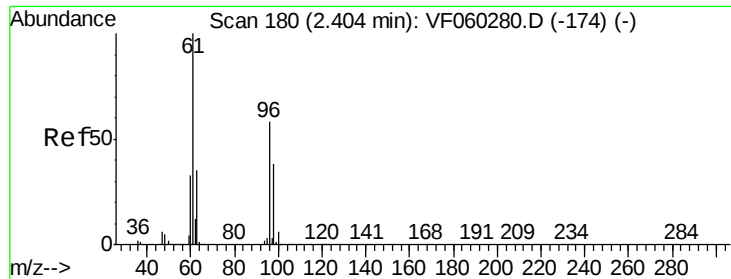


#20

Methylene Chloride  
 Concen: 33.332 ug/l m  
 RT: 2.27 min Scan# 166  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 119.5 | 118.3 | 177.5 |
| 51      | 46.4  | 38.7  | 58.1  |
| 86      | 62.7  | 55.8  | 83.6  |





#21

trans-1,2-Dichloroethene

Concen: 28.921 ug/l

RT: 2.40 min Scan# 179

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

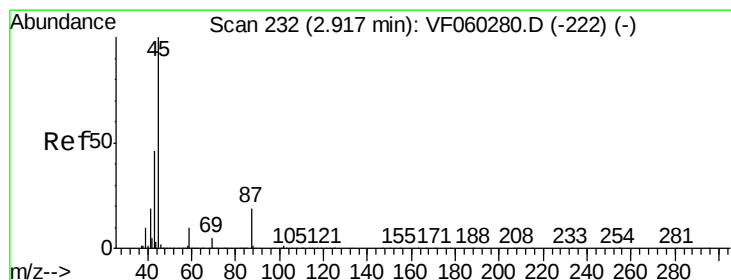
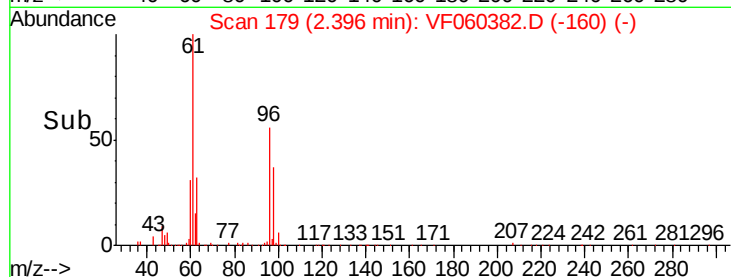
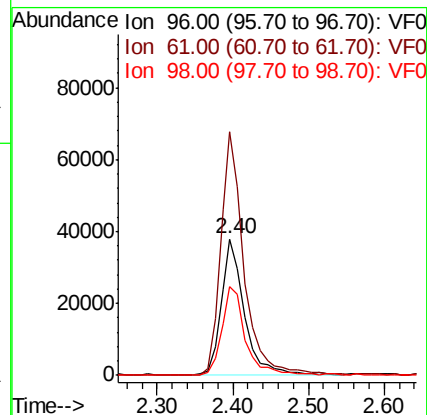
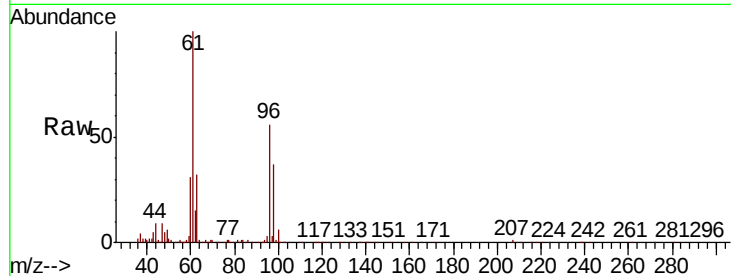
ClientSampleId :

VF0928SBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 80596 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 178.9 | 136.4 | 204.6 |
| 98       | 65.6  | 51.8  | 77.6  |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#22

Diisopropyl ether

Concen: 26.717 ug/l

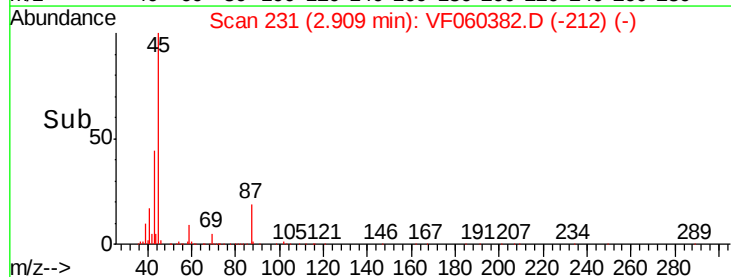
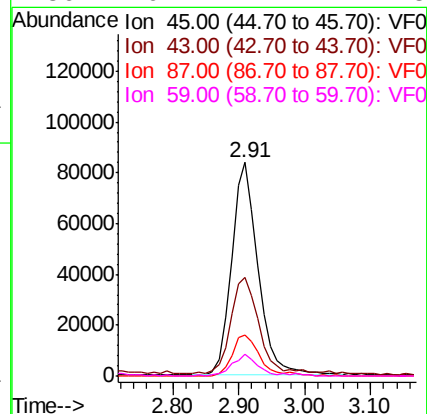
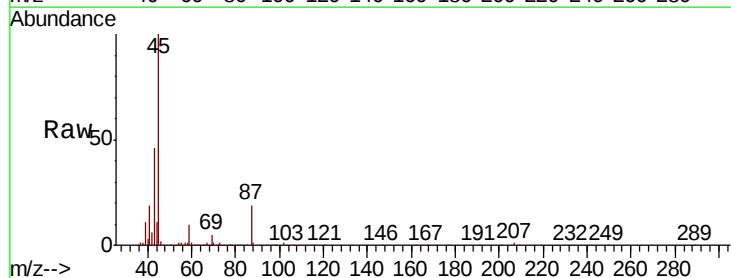
RT: 2.91 min Scan# 231

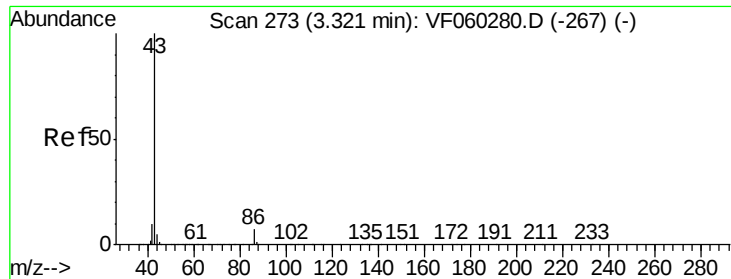
Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 237349 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 46.0  | 38.2  | 57.2   |
| 87       | 19.2  | 15.5  | 23.3   |
| 59       | 10.4  | 7.7   | 11.5   |





#23

Vinyl Acetate

Concen: 135.811 ug/l

RT: 3.31 min Scan# 272

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 43 Resp: 473855

Ion Ratio Lower Upper

43 100

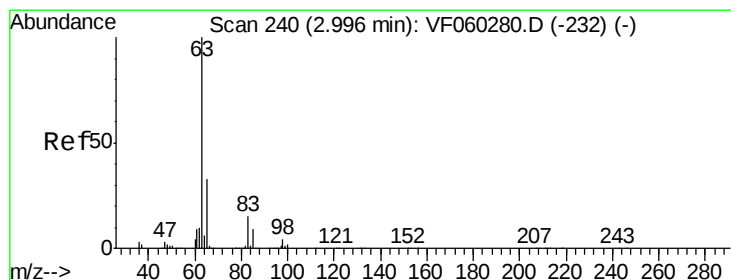
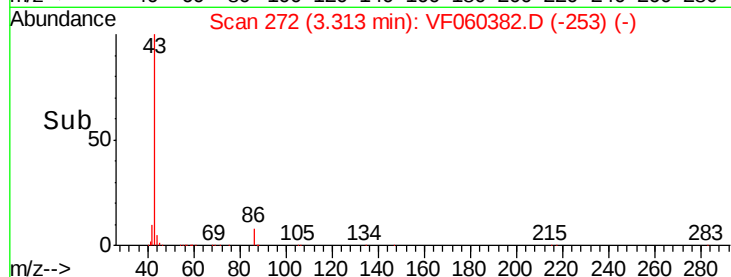
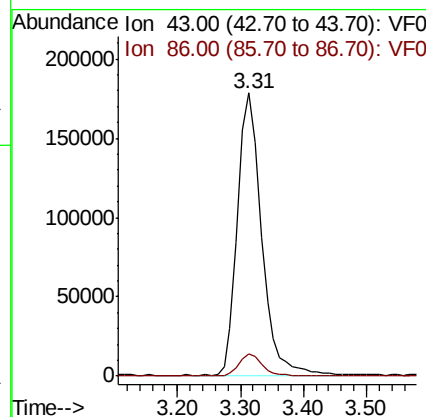
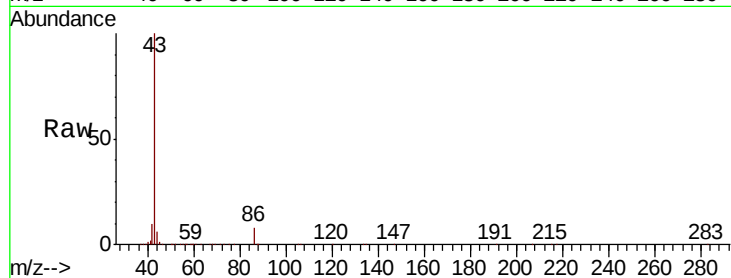
86 8.0 5.9 8.9

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#24

1,1-Dichloroethane

Concen: 26.139 ug/l

RT: 2.99 min Scan# 239

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

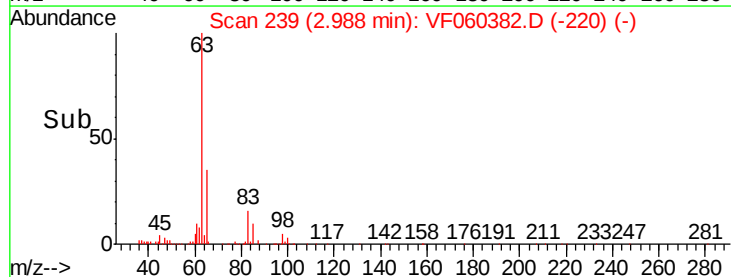
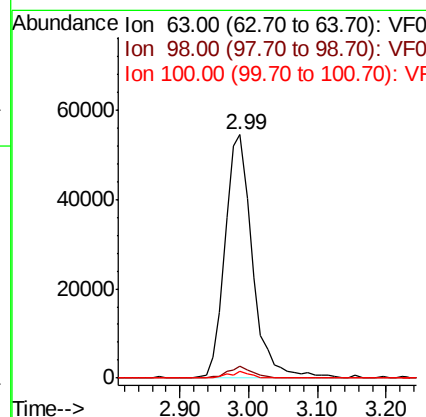
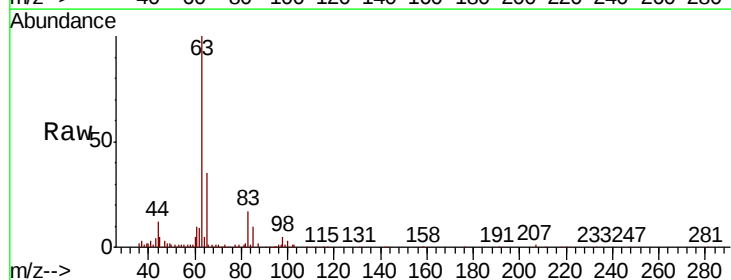
Tgt Ion: 63 Resp: 150595

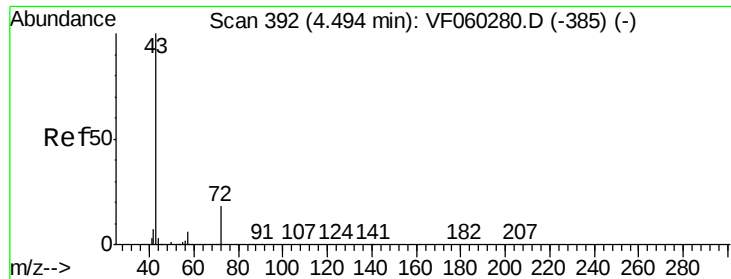
Ion Ratio Lower Upper

63 100

98 5.0 2.1 6.5

100 3.1 1.1 3.3





#25

2-Butanone

Concen: 106.109 ug/l

RT: 4.49 min Scan# 391

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 43 Resp: 128414

Ion Ratio Lower Upper

43 100

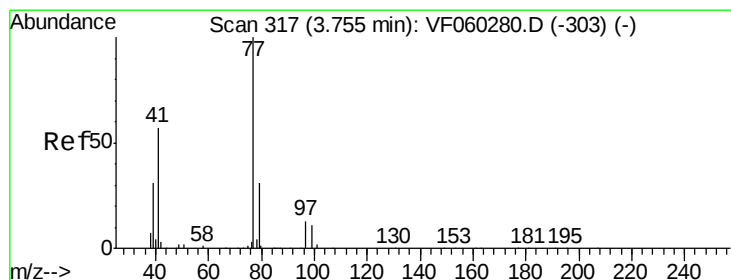
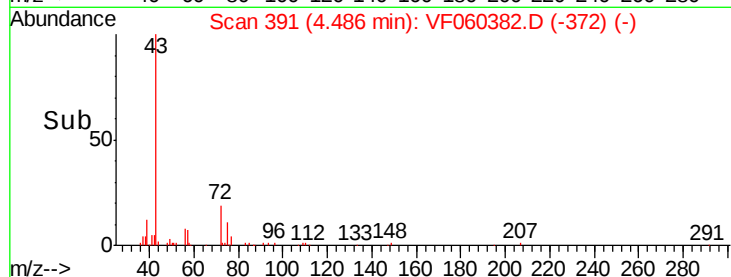
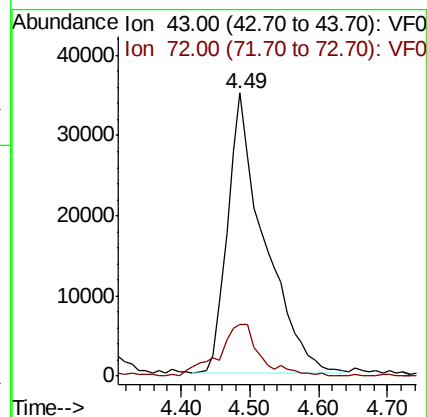
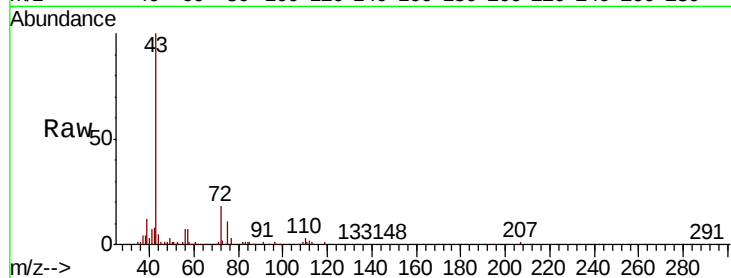
72 18.1 16.2 24.2

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#26

2,2-Dichloropropane

Concen: 25.674 ug/l

RT: 3.75 min Scan# 316

Delta R.T. -0.01 min

Lab File: VF060382.D

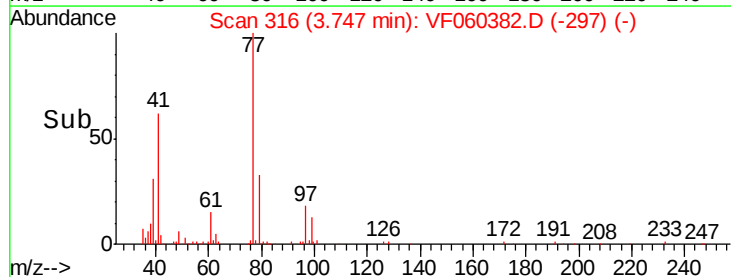
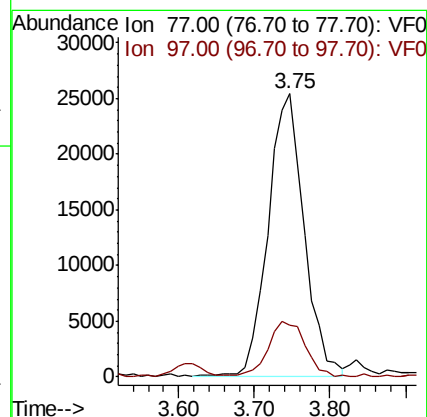
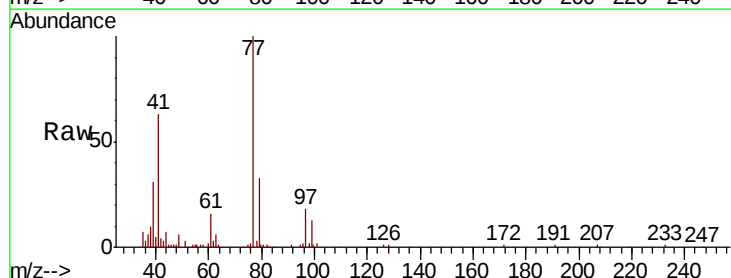
Acq: 28 Sep 2018 22:13

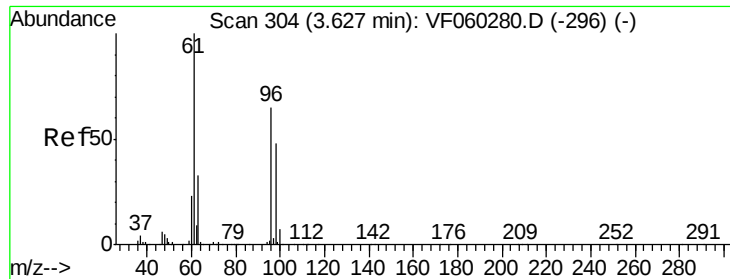
Tgt Ion: 77 Resp: 84399

Ion Ratio Lower Upper

77 100

97 18.3 9.3 27.9





#27

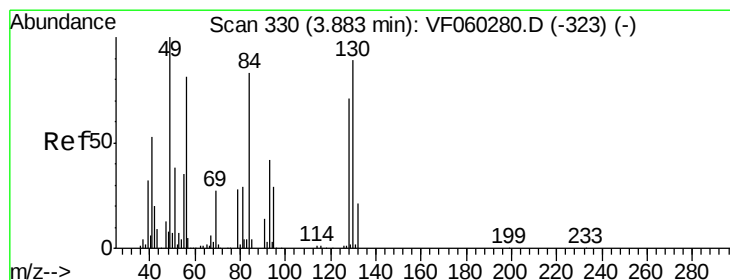
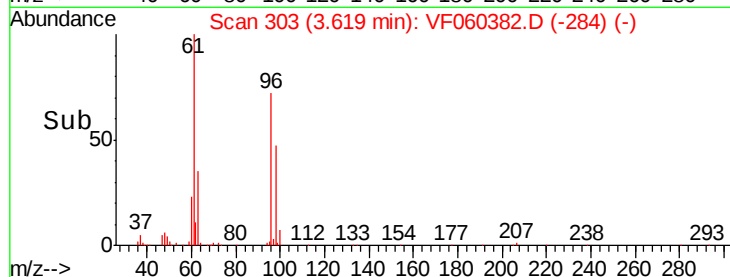
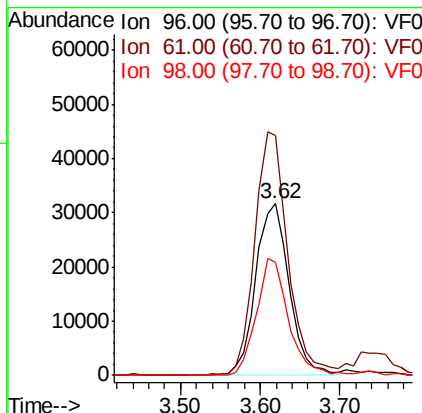
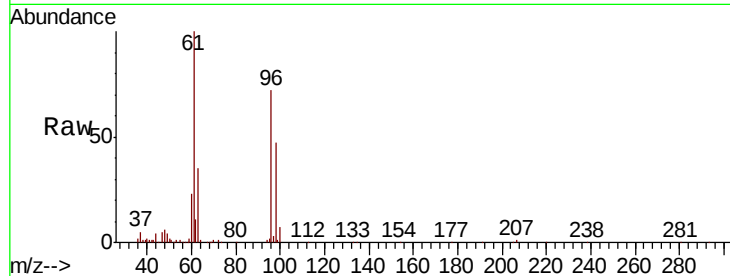
cis-1,2-Dichloroethene  
 Concen: 25.119 ug/l  
 RT: 3.62 min Scan# 303  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBSD01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 96      | 100   |      |       |       |
| 61      | 139.7 | 0.0  | 304.8 |       |
| 98      | 65.7  | 0.0  | 146.4 |       |

Manual Integrations  
 APPROVED

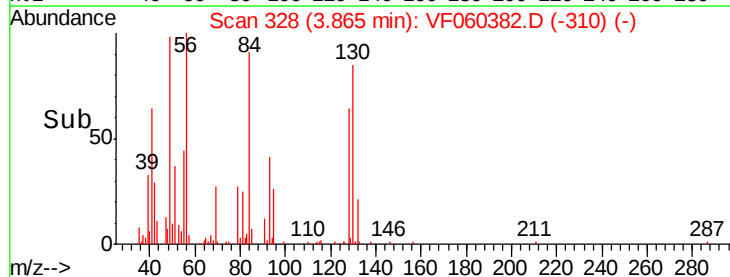
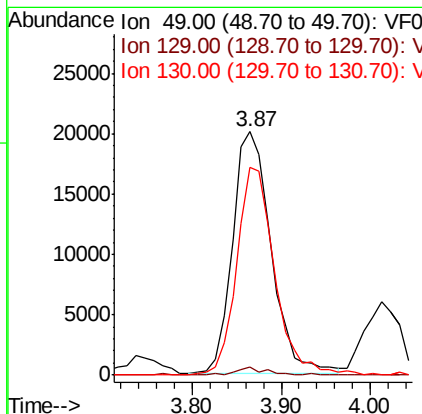
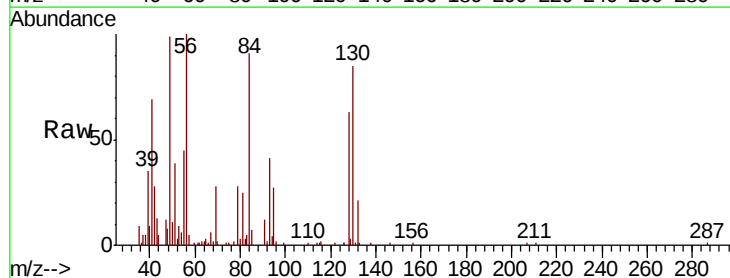
apatel  
 10/1/2018 3:03:56 PM

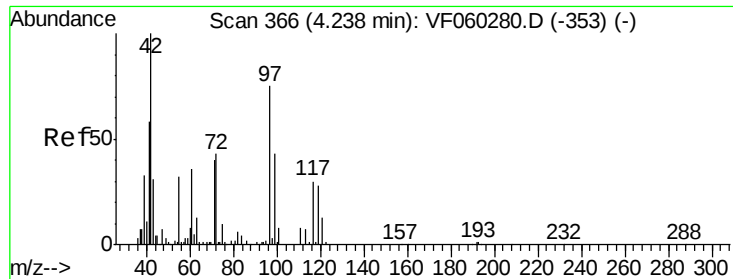


#28

Bromochloromethane  
 Concen: 26.939 ug/l  
 RT: 3.87 min Scan# 328  
 Delta R.T. -0.02 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 49      | 100   |      |       |       |
| 129     | 3.1   | 0.0  | 4.2   |       |
| 130     | 86.6  | 70.3 | 105.5 |       |





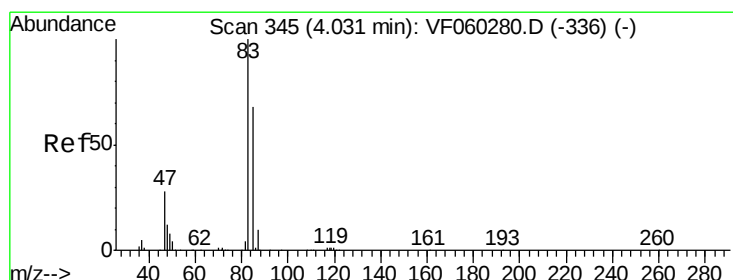
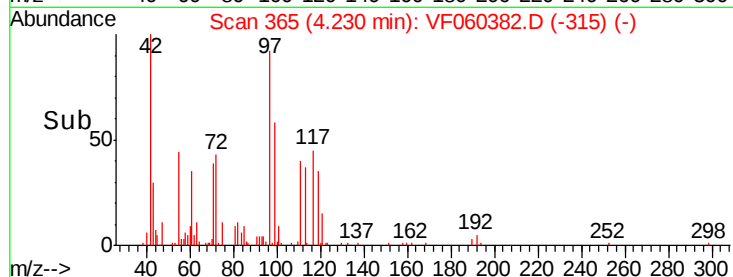
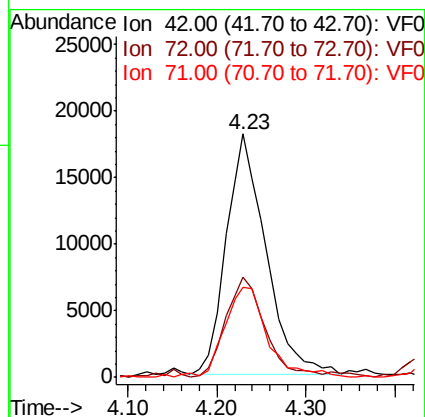
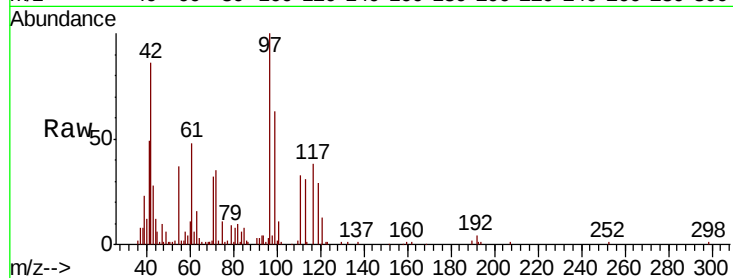
#29  
Tetrahydrofuran  
Concen: 127.372 ug/l  
RT: 4.23 min Scan# 365  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 41.2  | 32.6  | 49.0  |
| 71      | 40.8  | 32.7  | 49.1  |

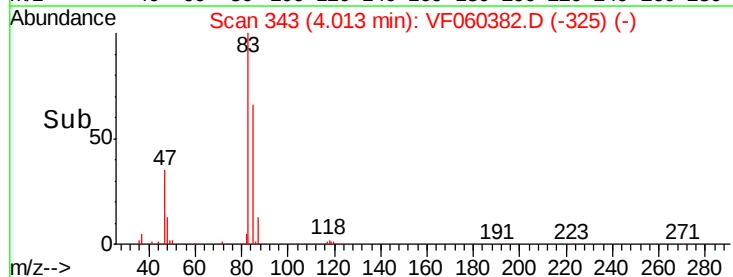
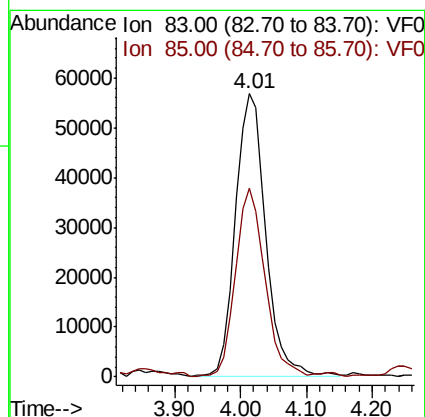
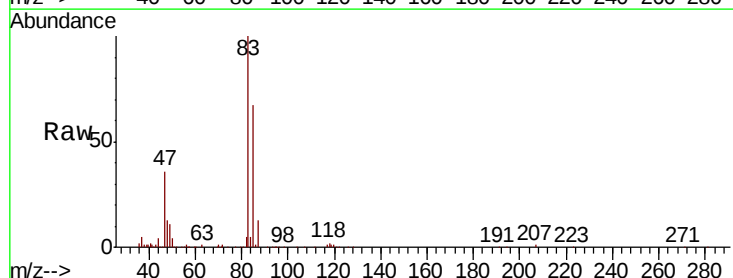
Manual Integrations  
APPROVED

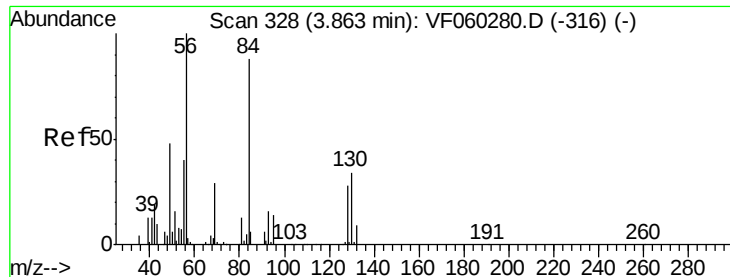
apatel  
10/1/2018 3:03:56 PM



#30  
Chloroform  
Concen: 26.147 ug/l  
RT: 4.01 min Scan# 343  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.7  | 54.9  | 82.3  |





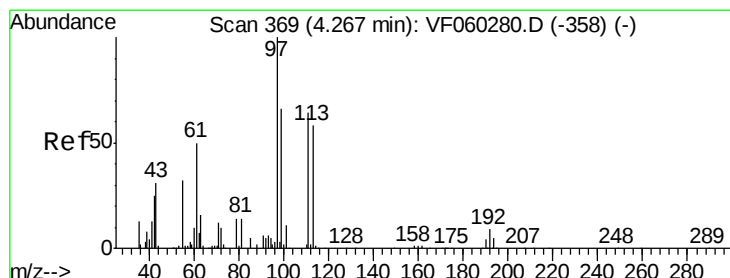
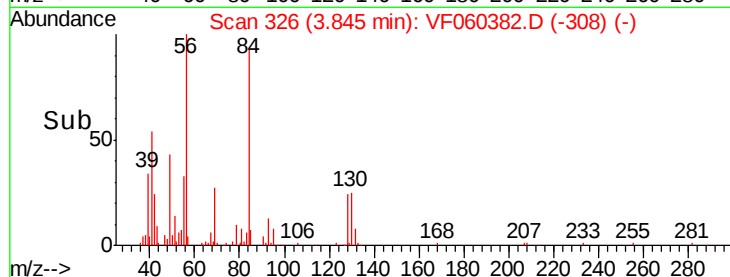
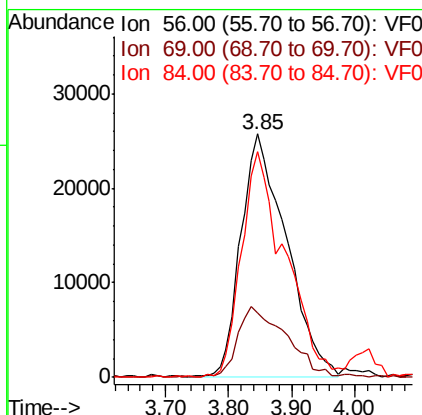
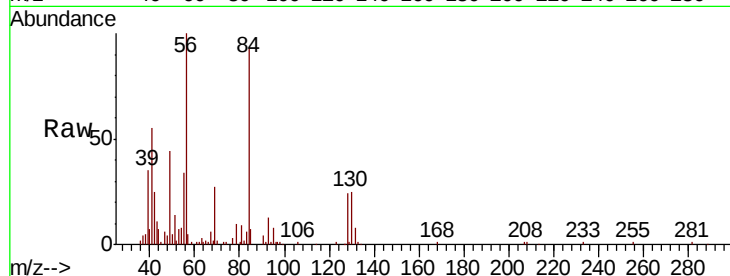
#31  
Cyclohexane  
Concen: 26.464 ug/l  
RT: 3.85 min Scan# 326  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 26.6  | 23.8  | 35.6  |
| 84      | 92.5  | 70.2  | 105.4 |

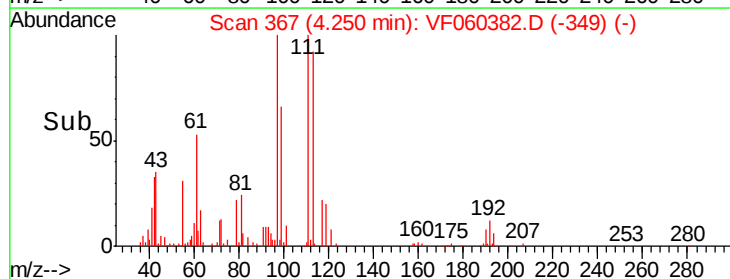
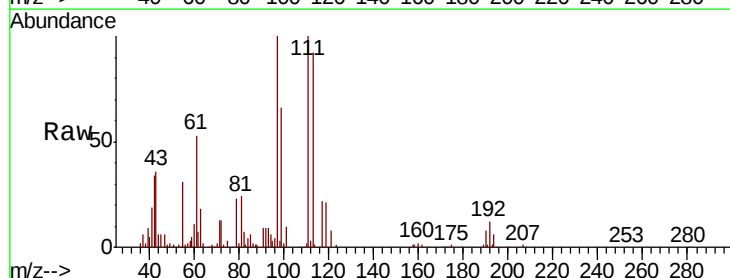
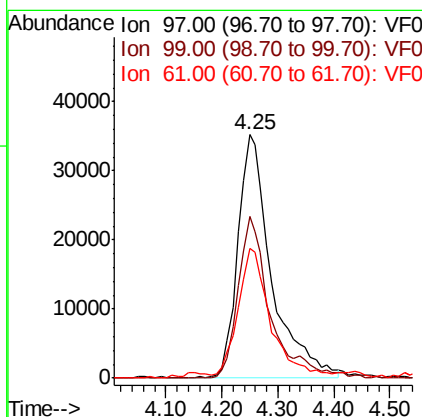
Manual Integrations  
APPROVED

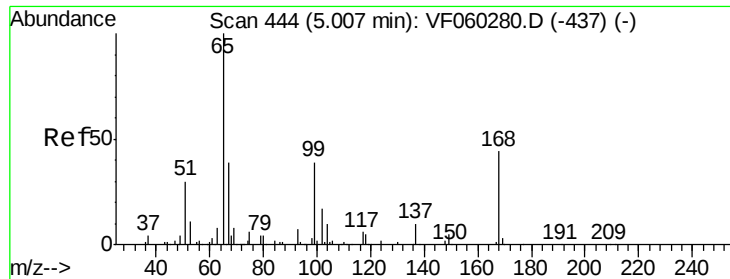
apatel  
10/1/2018 3:03:56 PM



#32  
1,1,1-Trichloroethane  
Concen: 26.755 ug/l  
RT: 4.25 min Scan# 367  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 66.5  | 53.0  | 79.4  |
| 61      | 53.4  | 40.6  | 61.0  |





#33

1,2-Dichloroethane-d4

Concen: 49.008 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBSD01

Tot Ion: 65 Resp: 156467

Ion Ratio Lower Upper

65 100

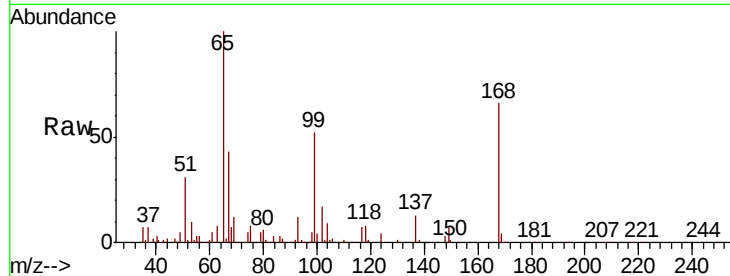
67 43.0 0.0 94.4

Manual Integrations

APPROVED

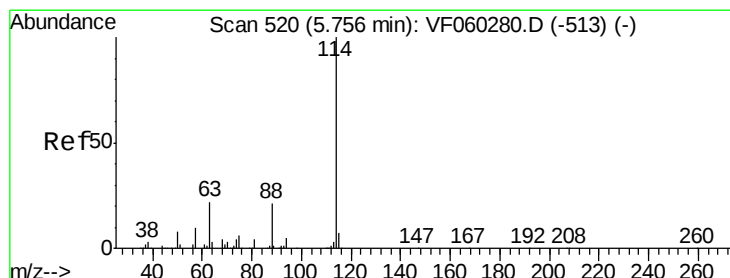
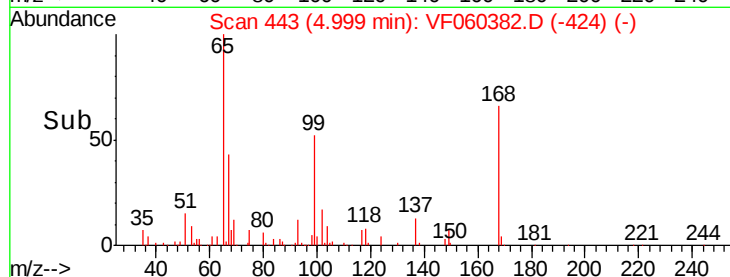
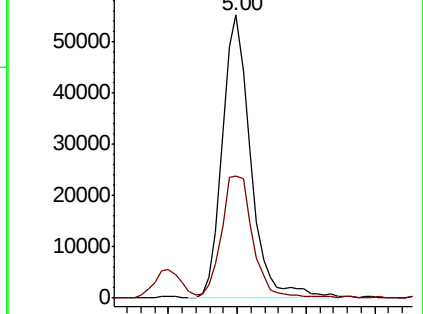
apatel

10/1/2018 3:03:56 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

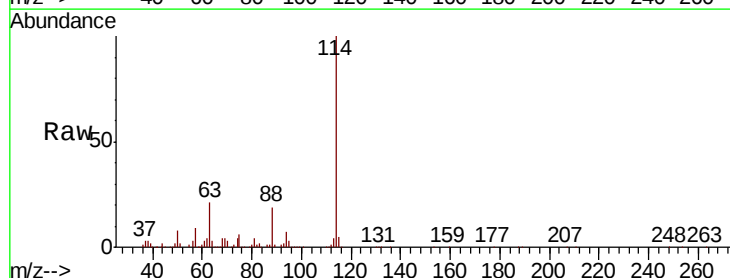
Tgt Ion: 114 Resp: 418753

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.8

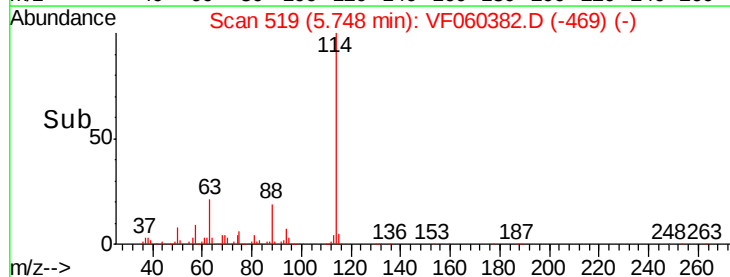
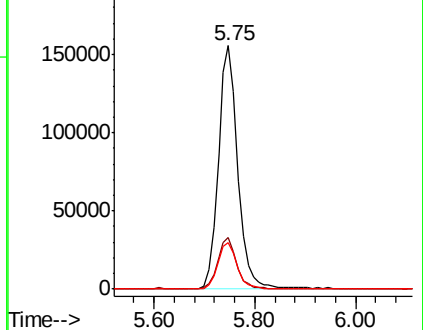
88 19.2 0.0 41.2

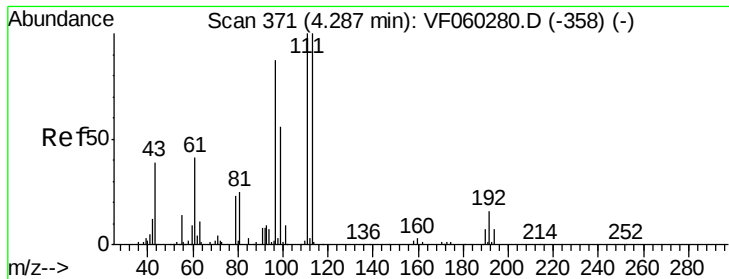


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 47.598 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

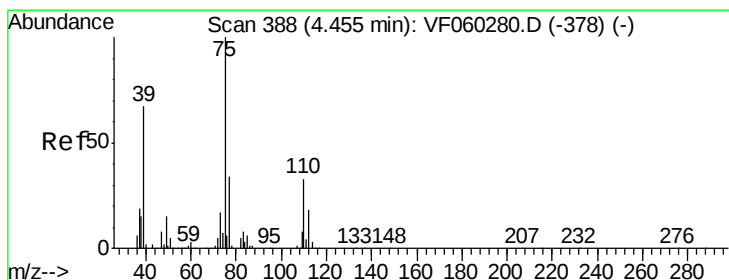
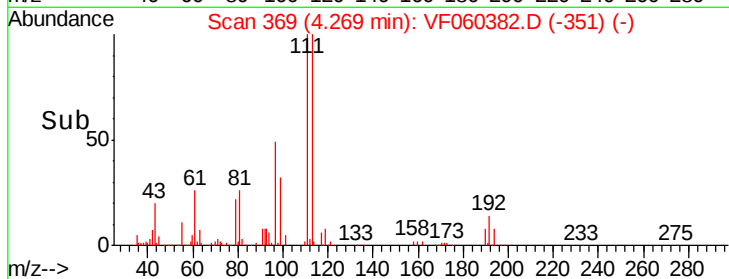
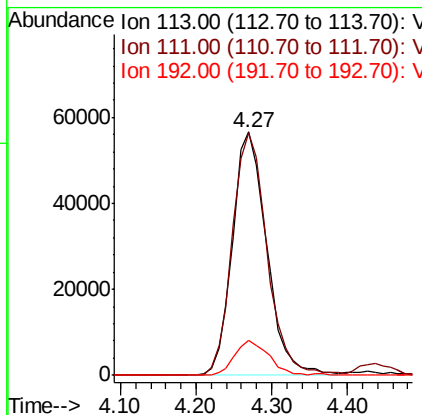
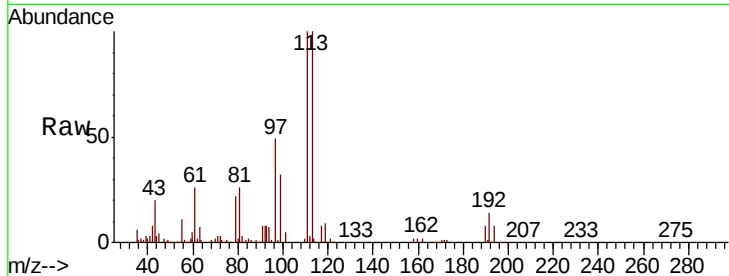
ClientSampleId :

VF0928SBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 177679 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 99.7  | 79.6  | 119.4  |
| 192       | 14.2  | 13.0  | 19.6   |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#36

1,1-Dichloropropene

Concen: 23.619 ug/l

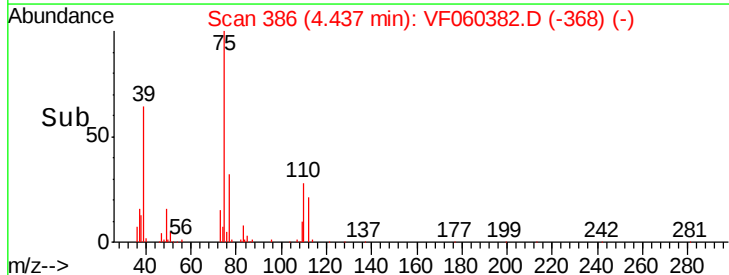
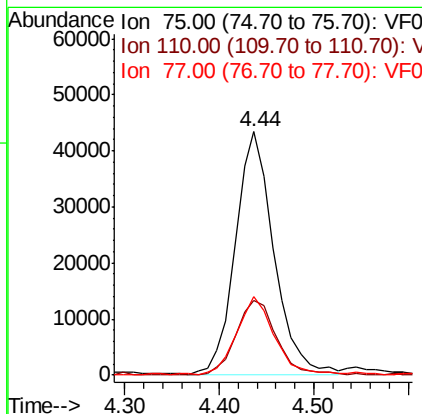
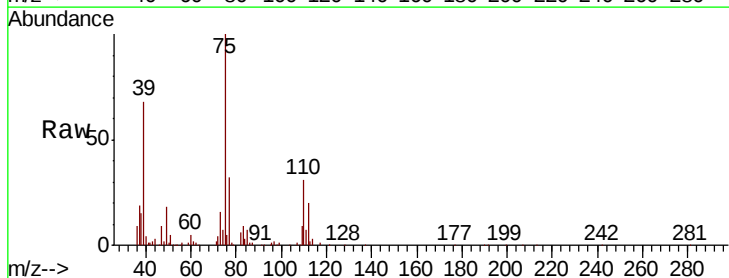
RT: 4.44 min Scan# 386

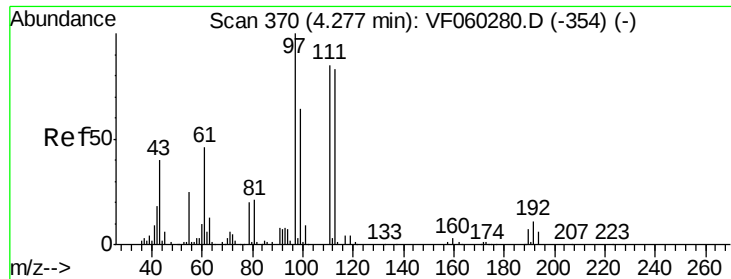
Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 123371 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 30.8  | 16.4  | 49.2   |
| 77        | 32.5  | 27.3  | 40.9   |





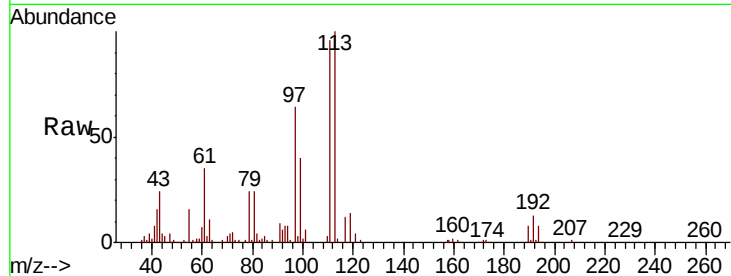
#37  
Ethyl Acetate  
Concen: 23.436 ug/l  
RT: 4.26 min Scan# 368  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 43      | 100   |       |        |
| 61      | 142.4 | 91.1  | 136.7# |
| 70      | 10.7  | 6.9   | 10.3#  |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM

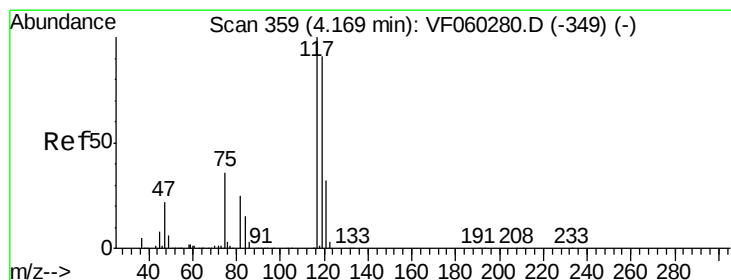
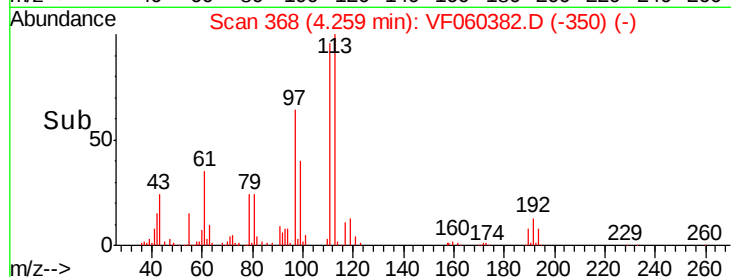
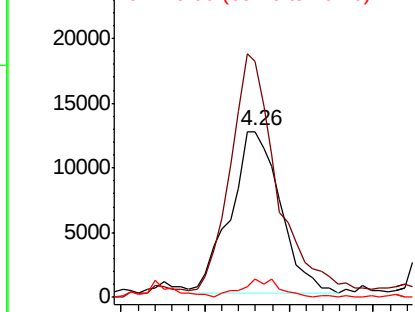


Abundance

Ion 43.00 (42.70 to 43.70): VF0

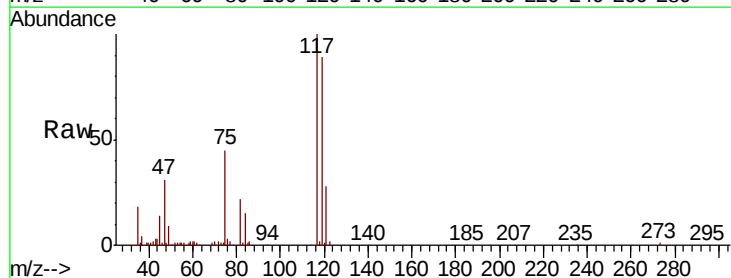
Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38  
Carbon Tetrachloride  
Concen: 24.687 ug/l  
RT: 4.15 min Scan# 357  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 89.2  | 73.0  | 109.6 |
| 121     | 27.9  | 25.4  | 38.2  |

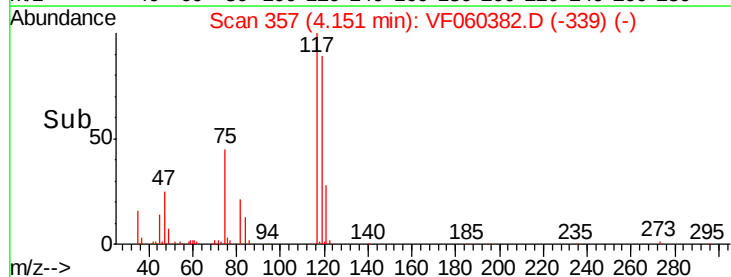
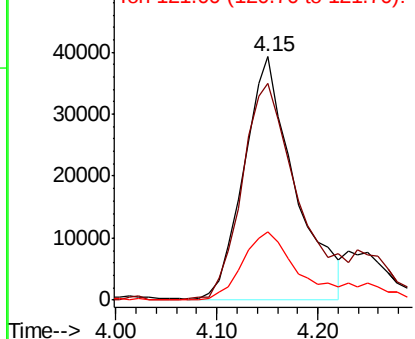


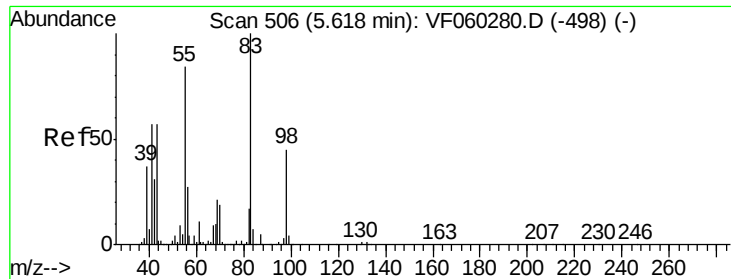
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





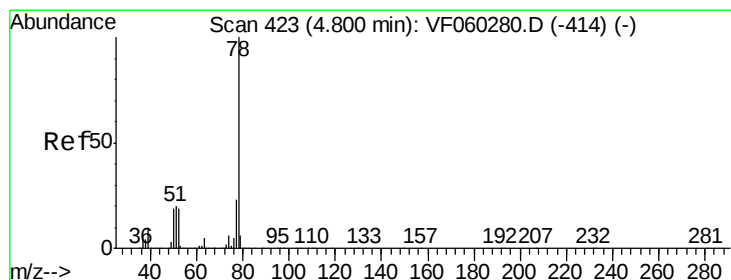
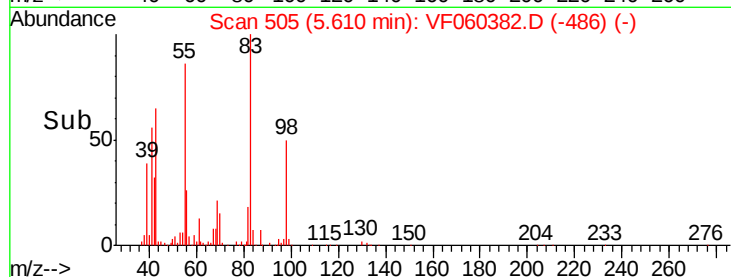
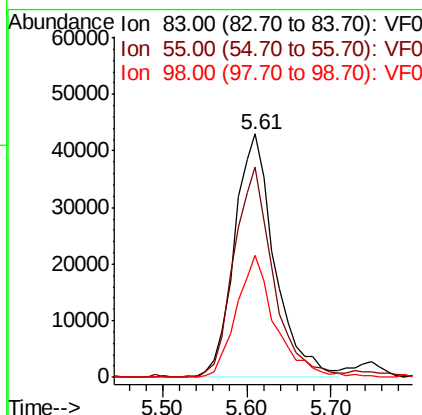
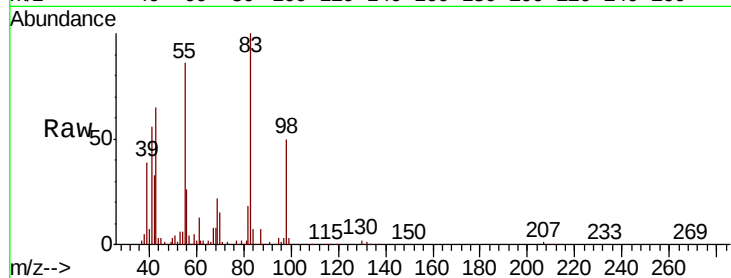
#39  
Methvlcvclohexane  
Concen: 25.321 ug/l  
RT: 5.61 min Scan# 505  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 86.4  | 67.3  | 100.9 |
| 98      | 50.4  | 36.1  | 54.1  |

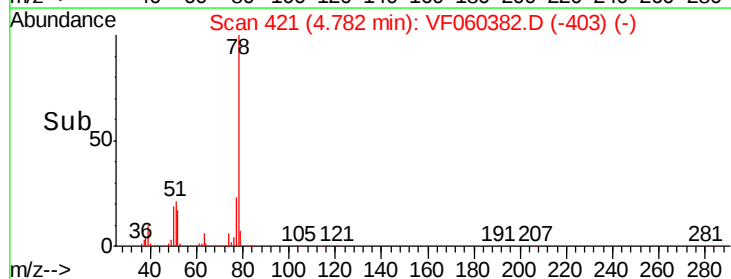
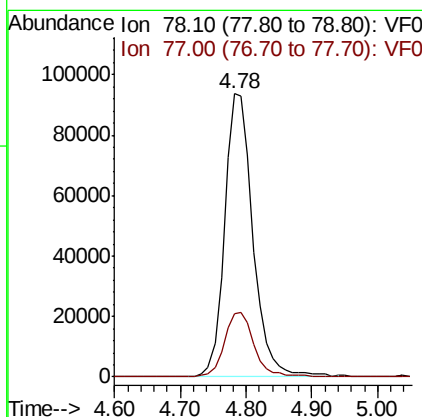
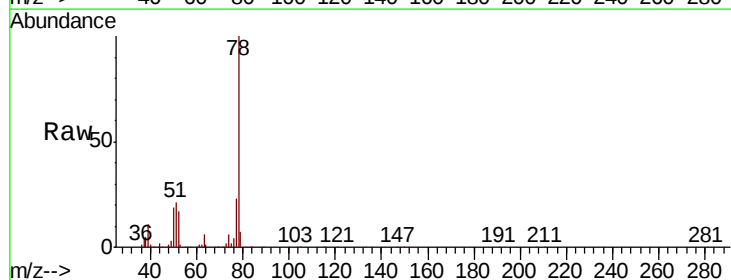
Manual Integrations  
APPROVED

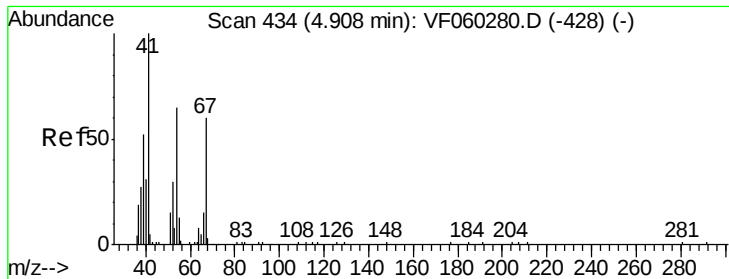
apatel  
10/1/2018 3:03:56 PM



#40  
Benzene  
Concen: 23.781 ug/l  
RT: 4.78 min Scan# 421  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.5  | 18.4  | 27.6  |





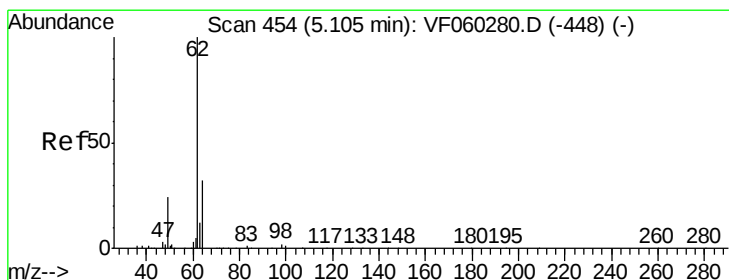
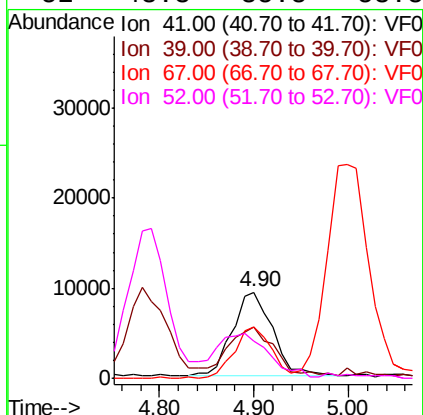
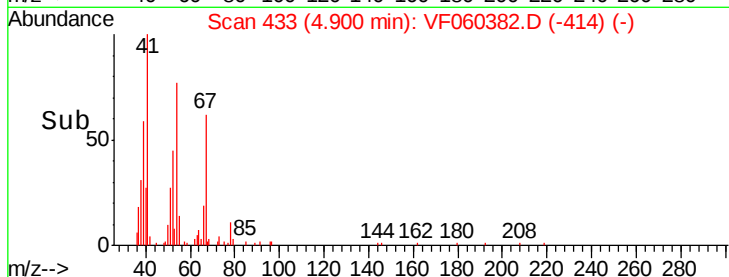
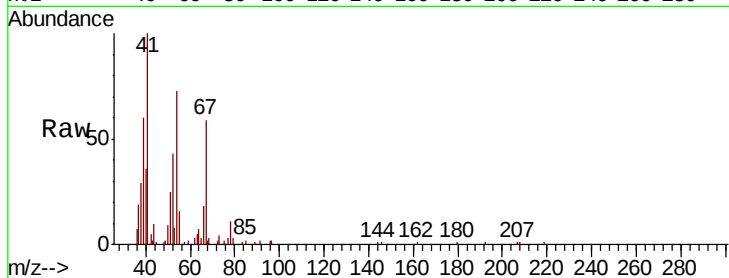
#41  
Methacrylonitrile  
Concen: 23.107 ug/l  
RT: 4.90 min Scan# 433  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 60.2  | 49.1  | 73.7  |
| 67      | 59.0  | 48.2  | 72.4  |
| 52      | 43.3  | 35.8  | 53.8  |

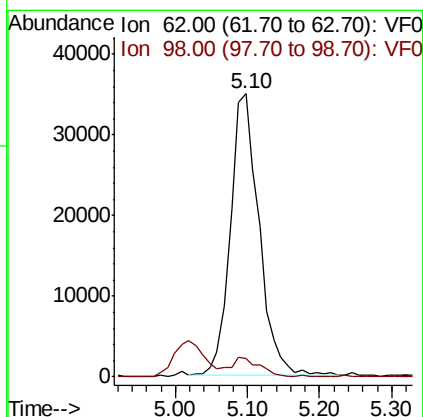
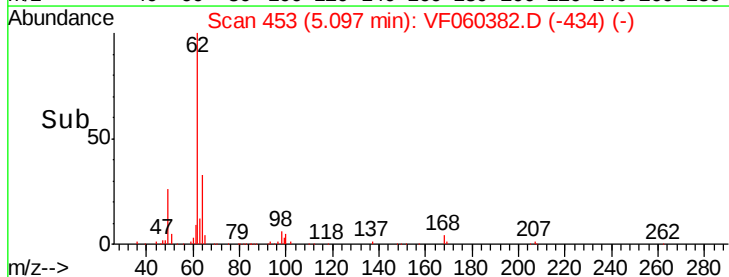
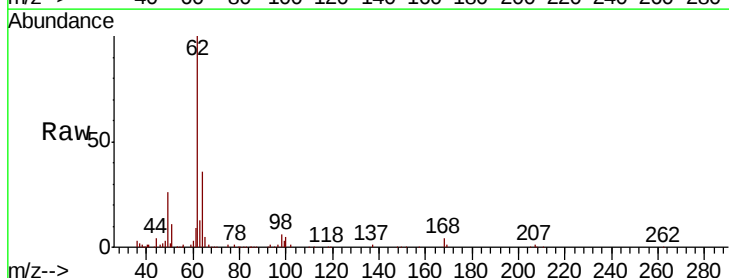
Manual Integrations  
APPROVED

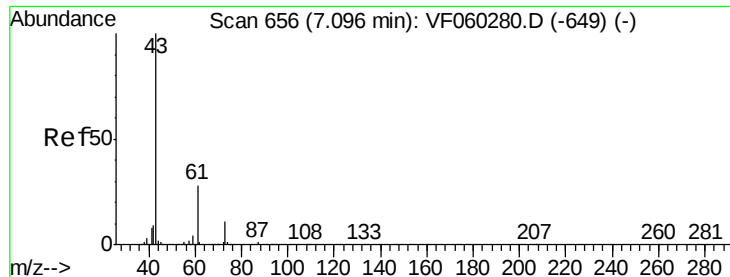
apatel  
10/1/2018 3:03:56 PM



#42  
1,2-Dichloroethane  
Concen: 22.210 ug/l  
RT: 5.10 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 6.3   | 0.0   | 14.4  |





#43

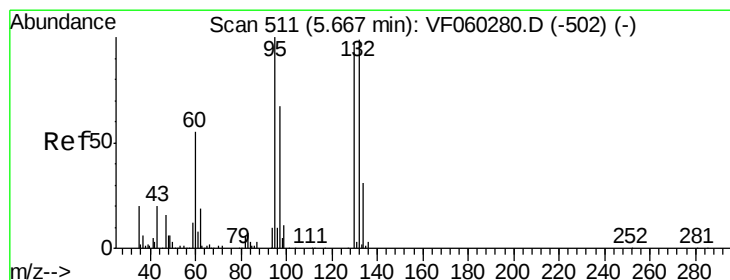
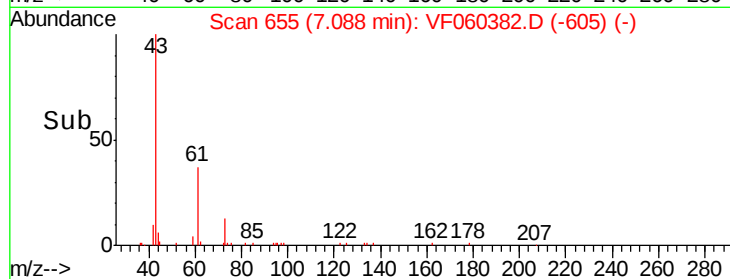
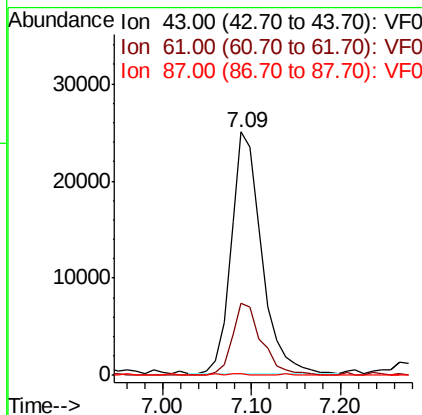
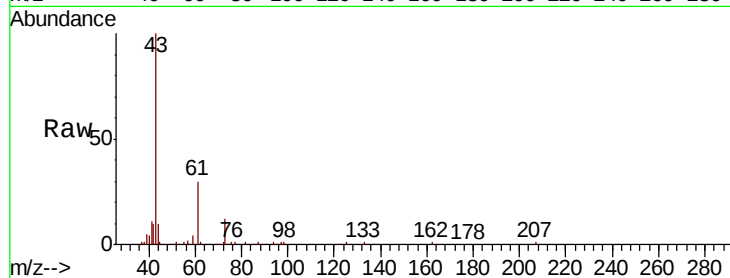
Isopropyl Acetate  
 Concen: 22.355 ug/l  
 RT: 7.09 min Scan# 655  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 29.7  | 22.4  | 33.6  |
| 87      | 0.7   | 0.6   | 0.8   |

Manual Integrations  
 APPROVED

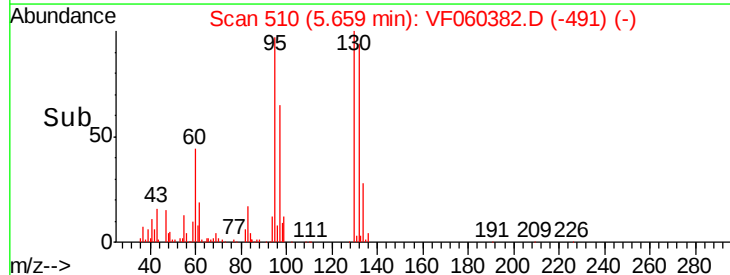
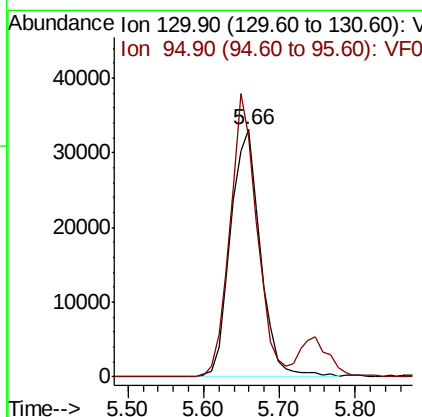
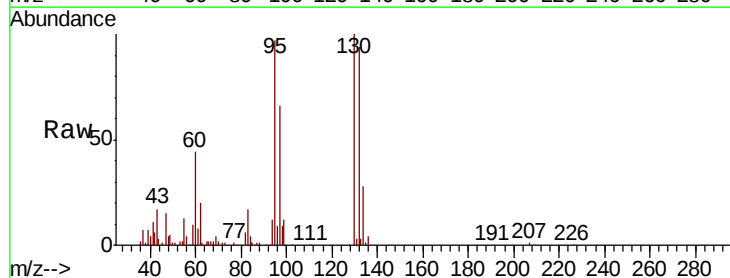
apatel  
 10/1/2018 3:03:56 PM

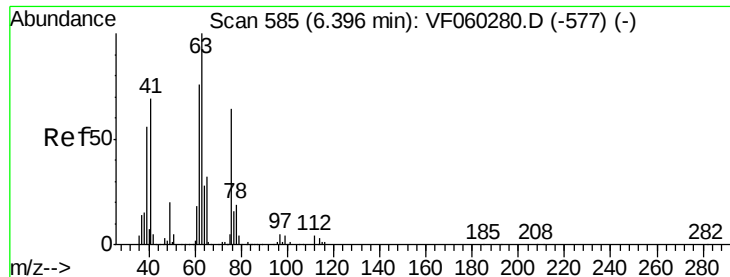


#44

Trichloroethene  
 Concen: 25.529 ug/l  
 RT: 5.66 min Scan# 510  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 97.0  | 0.0   | 205.6 |





#45

1,2-Dichloropropane

Concen: 23.395 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBSD01

Tot Ion: 63 Resp: 71713

Ion Ratio Lower Upper

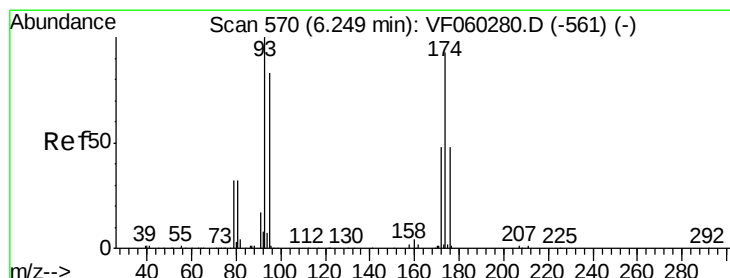
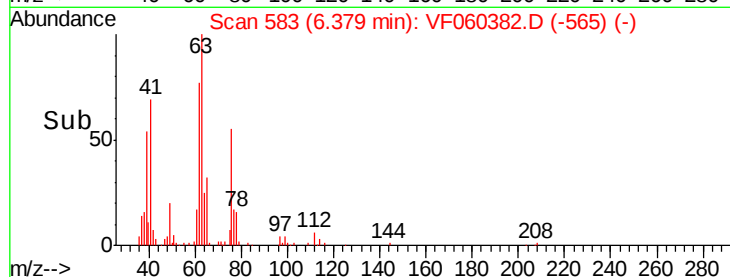
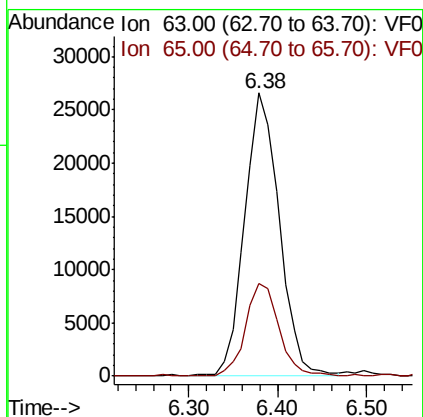
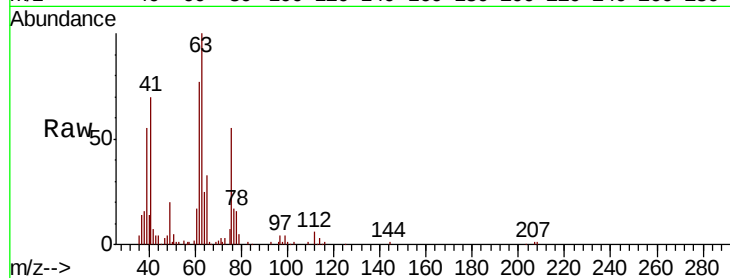
63 100

65 32.9 26.2 39.4

Manual Integrations  
APPROVED

apatel

10/1/2018 3:03:56 PM



#46

Dibromomethane

Concen: 23.783 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

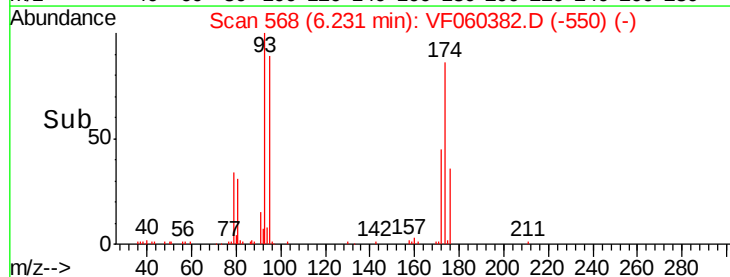
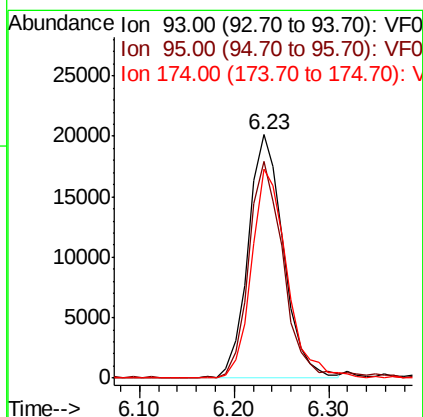
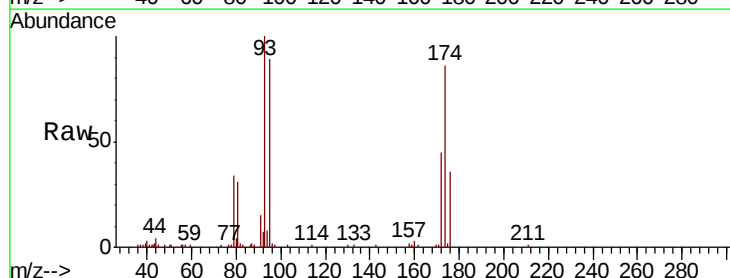
Tgt Ion: 93 Resp: 52109

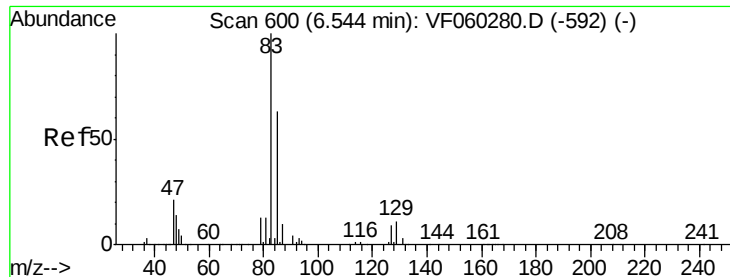
Ion Ratio Lower Upper

93 100

95 89.1 67.0 100.6

174 88.1 74.8 112.2





#47

Bromodichloromethane

Concen: 21.446 ug/l

RT: 6.53 min Scan# 598

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

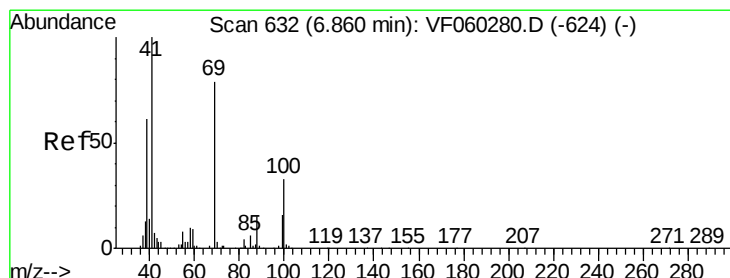
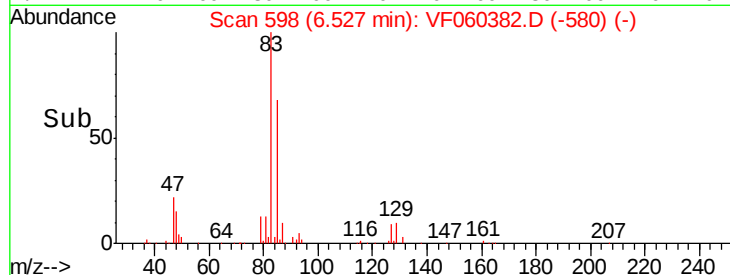
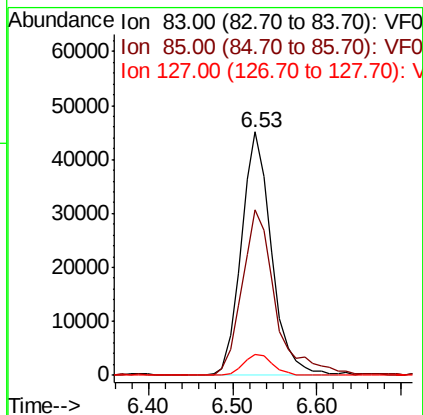
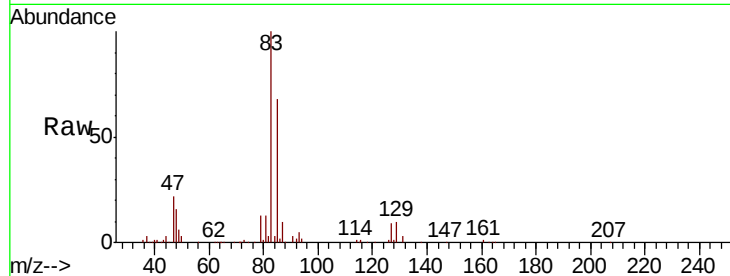
ClientSampleId :

VF0928SBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 112924 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 68.0  | 50.6  | 76.0   |
| 127      | 8.6   | 7.1   | 10.7   |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#48

Methyl methacrylate

Concen: 21.697 ug/l

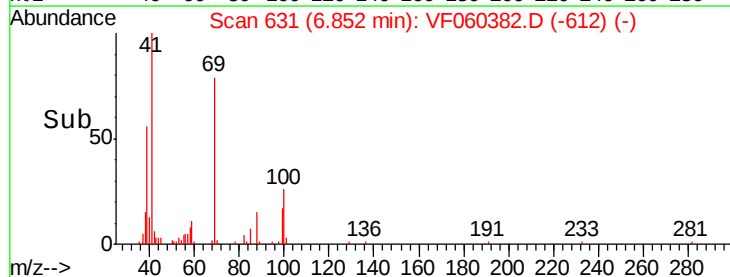
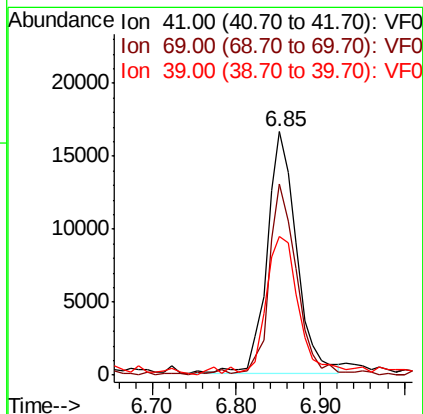
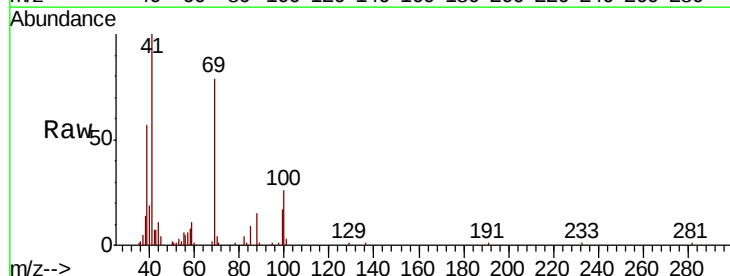
RT: 6.85 min Scan# 631

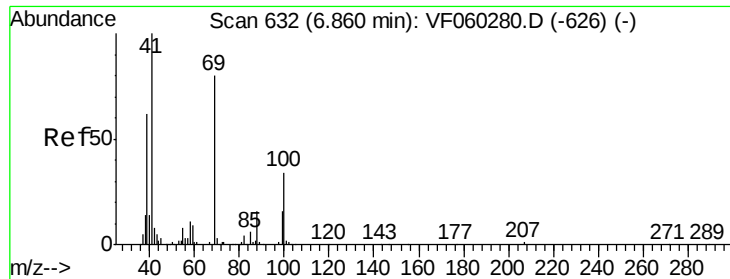
Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 40525 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 78.7  | 62.6  | 94.0  |
| 39       | 56.9  | 49.1  | 73.7  |





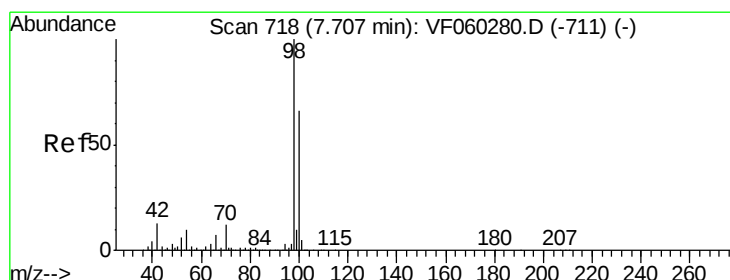
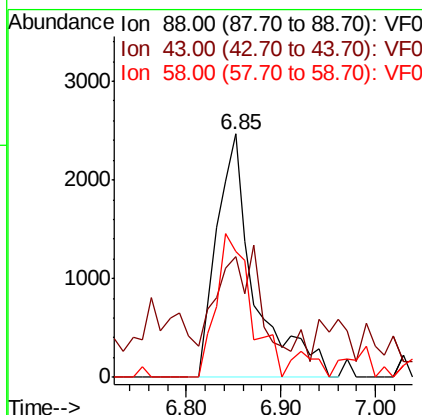
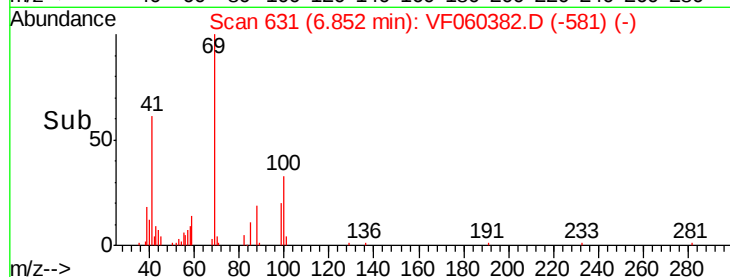
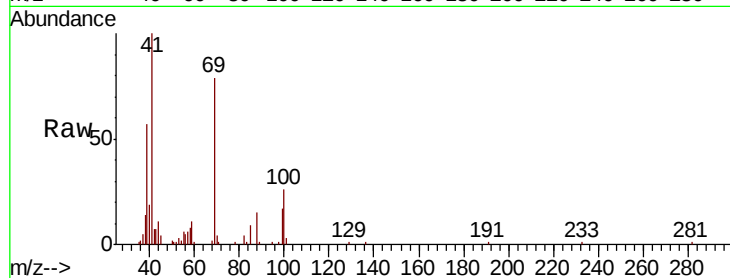
#49  
1,4-Dioxane  
Concen: 410.036 ug/l  
RT: 6.85 min Scan# 631  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 88      | 100   | 6842 |       |       |
| 43      | 49.8  |      | 40.2  | 60.4  |
| 58      | 51.8  |      | 56.7  | 85.1# |

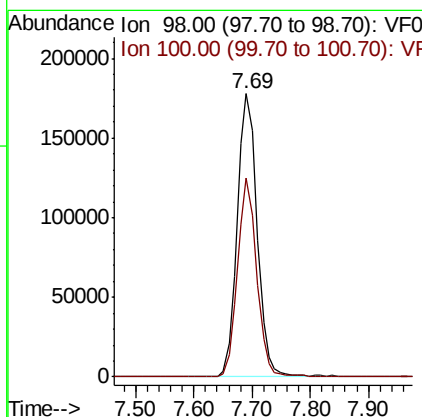
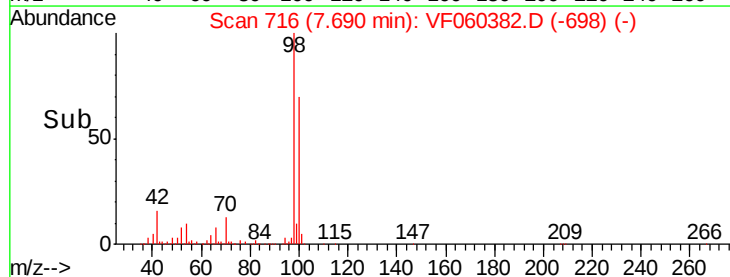
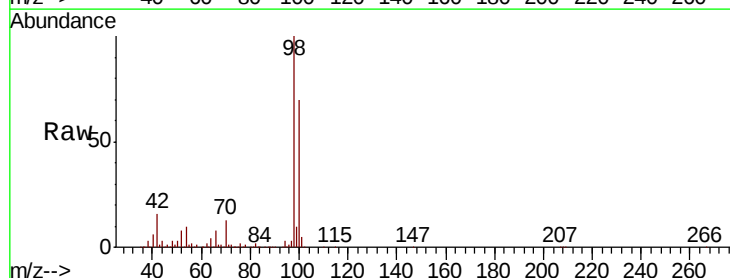
Manual Integrations  
APPROVED

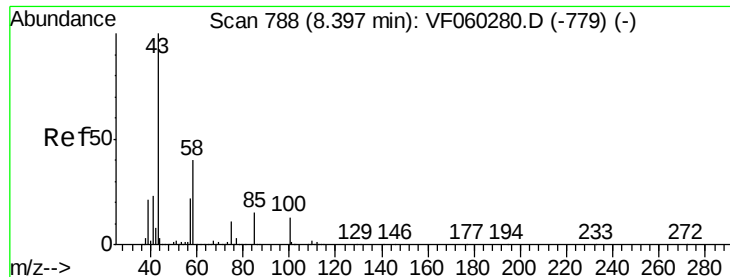
apatel  
10/1/2018 3:03:56 PM



#50  
Toluene-d8  
Concen: 43.591 ug/l  
RT: 7.69 min Scan# 716  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 98      | 100   | 423758 |       |       |
| 100     | 70.2  |        | 53.0  | 79.6  |





#51

4-Methyl-2-Pentanone

Concen: 106.740 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 43 Resp: 218893

Ion Ratio Lower Upper

43 100

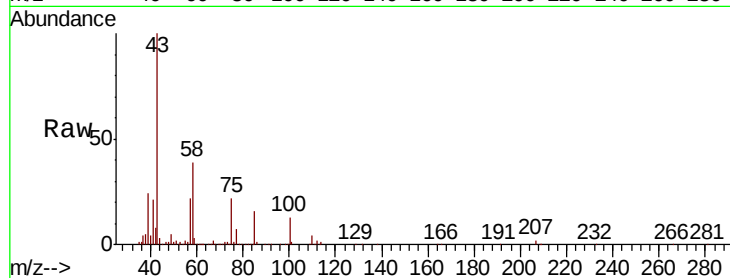
58 38.6 31.8 47.8

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.39

100000

80000

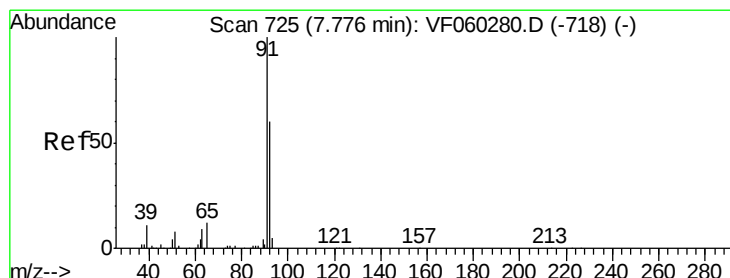
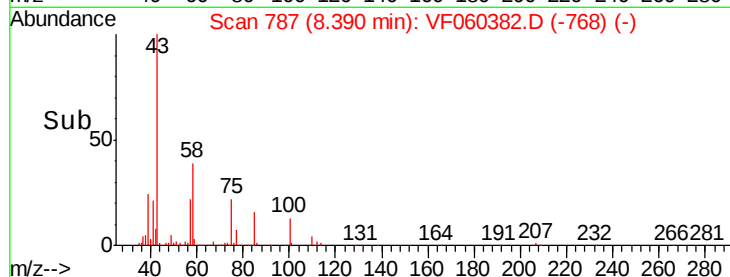
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 22.523 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.02 min

Lab File: VF060382.D

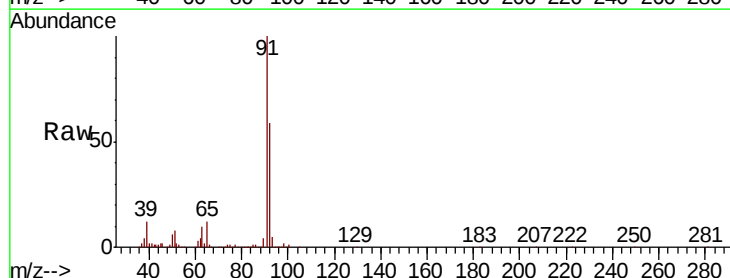
Acq: 28 Sep 2018 22:13

Tgt Ion: 92 Resp: 168761

Ion Ratio Lower Upper

92 100

91 168.8 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

150000

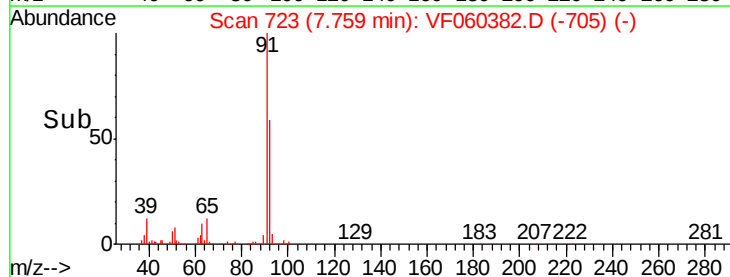
100000

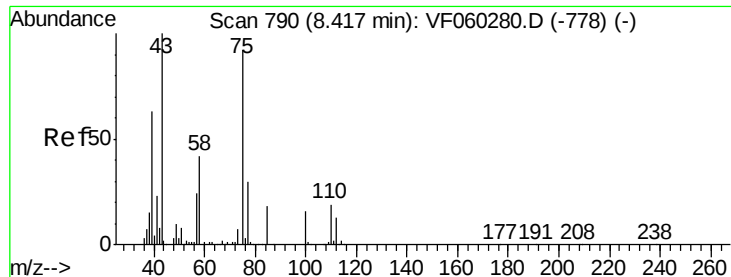
7.76

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 22.911 ug/l

RT: 8.41 min Scan# 789

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBSD01

Tot Ion: 75 Resp: 97310

Ion Ratio Lower Upper

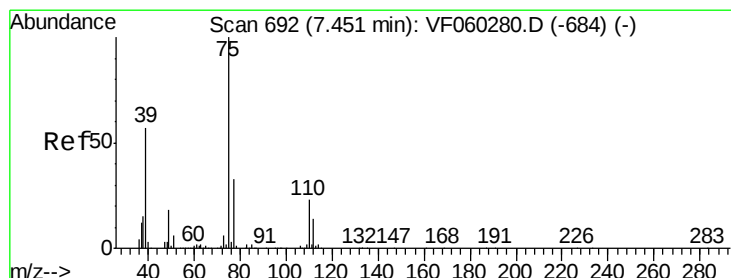
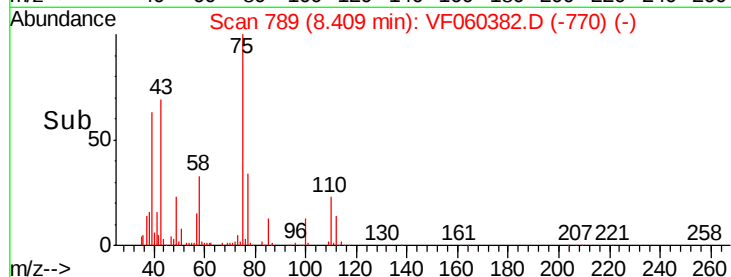
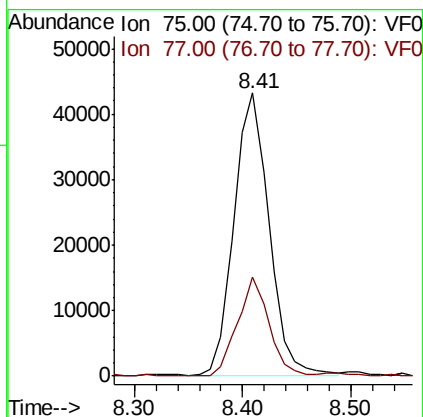
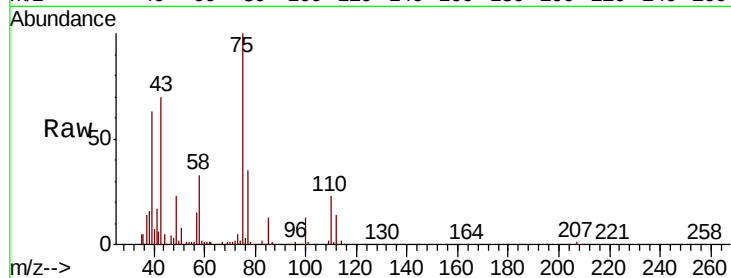
75 100

77 34.9 25.9 38.9

Manual Integrations  
APPROVED

apatel

10/1/2018 3:03:56 PM



#54

cis-1,3-Dichloropropene

Concen: 22.587 ug/l

RT: 7.44 min Scan# 691

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

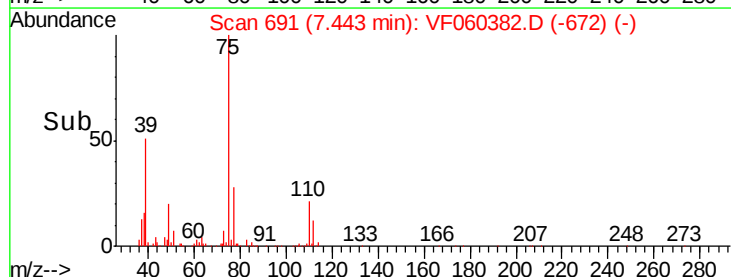
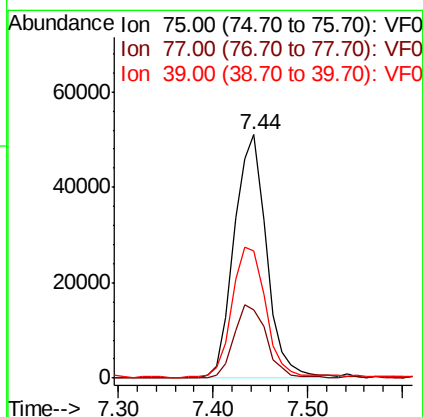
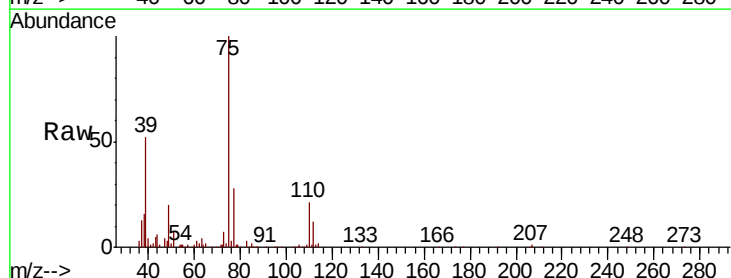
Tgt Ion: 75 Resp: 120854

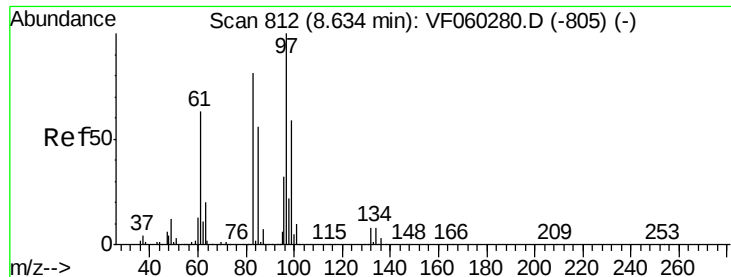
Ion Ratio Lower Upper

75 100

77 28.1 26.3 39.5

39 52.2 46.1 69.1





#55

1,1,2-Trichloroethane

Concen: 23.148 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

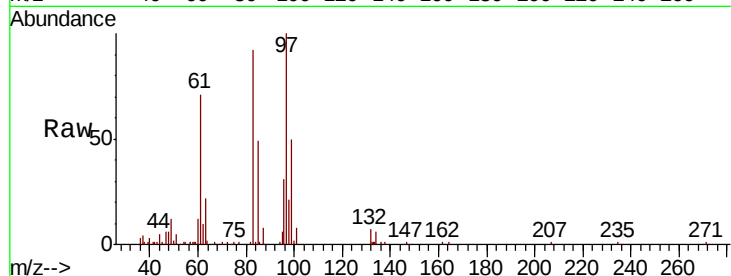
ClientSampleId :

VF0928SBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 97    | Resp: | 52642 |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 83        | 91.8  | 65.3  | 97.9  |
| 85        | 49.1  | 44.7  | 67.1  |
| 99        | 50.3  | 47.0  | 70.4  |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM

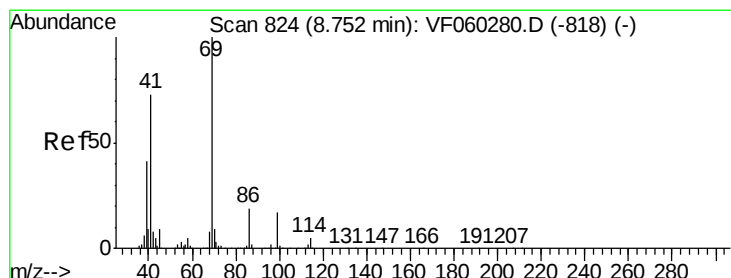
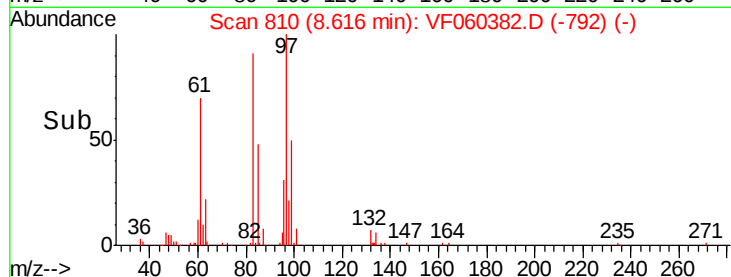
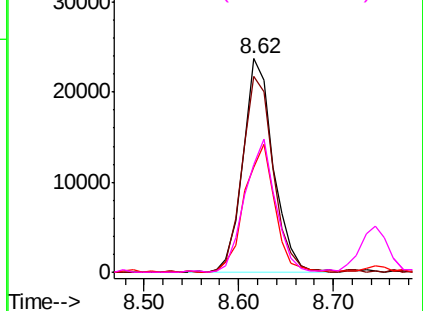


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 21.118 ug/l

RT: 8.74 min Scan# 823

Delta R.T. -0.01 min

Lab File: VF060382.D

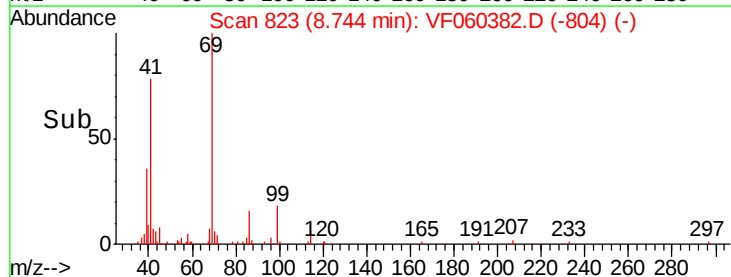
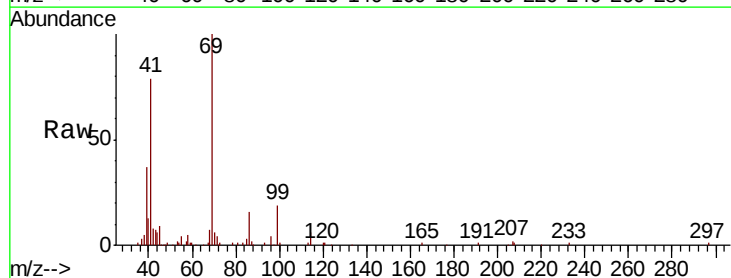
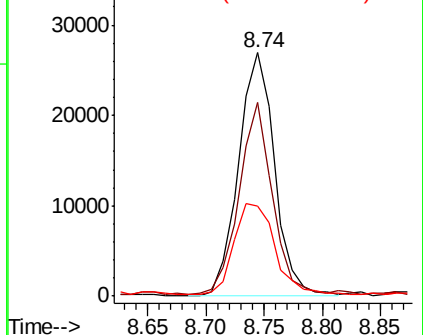
Acq: 28 Sep 2018 22:13

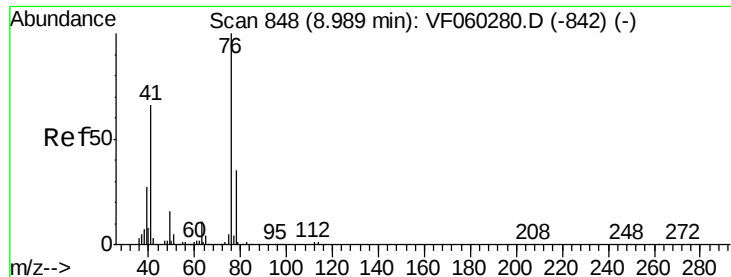
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 69    | Resp: | 58001 |
| Ion Ratio | Lower | Upper |       |
| 69        | 100   |       |       |
| 41        | 79.4  | 59.4  | 89.2  |
| 39        | 37.2  | 33.5  | 50.3  |

Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.959 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 76 Resp: 86450

Ion Ratio Lower Upper

76 100

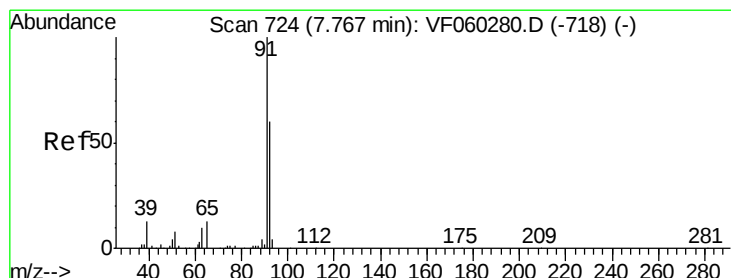
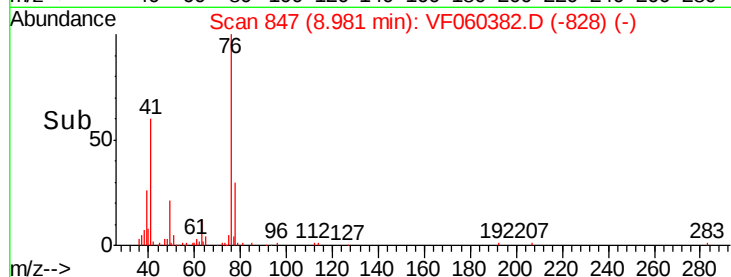
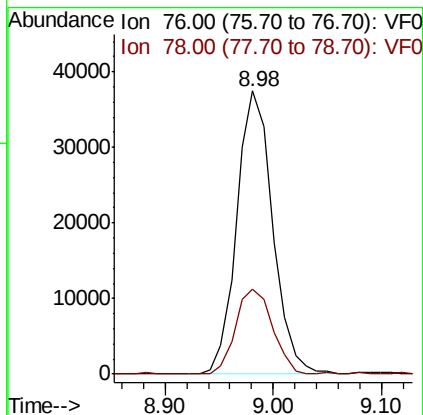
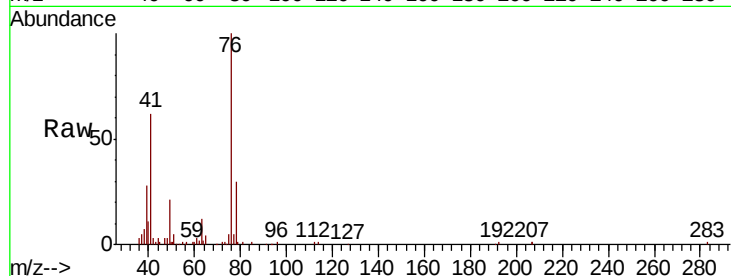
78 30.1 28.2 42.2

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#58

2-Chloroethyl Vinyl ether

Concen: 110.473 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060382.D

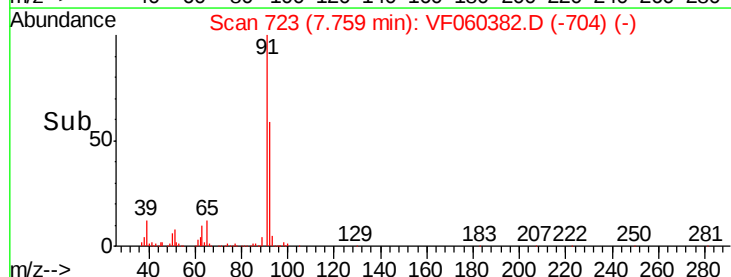
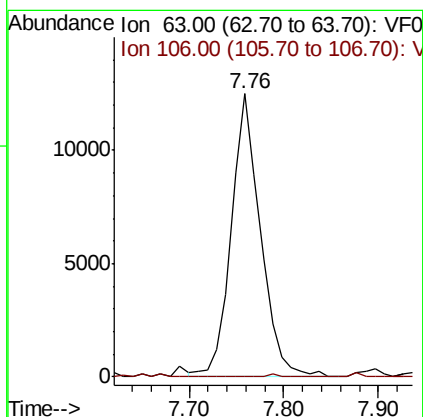
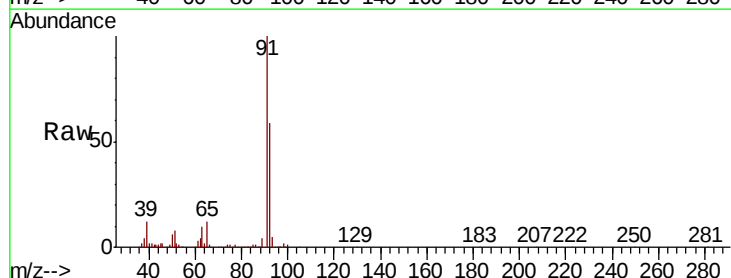
Acq: 28 Sep 2018 22:13

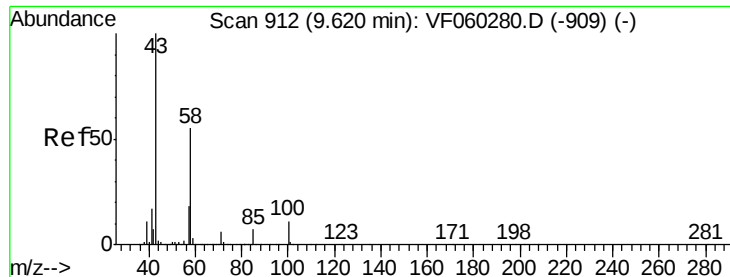
Tgt Ion: 63 Resp: 26823

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





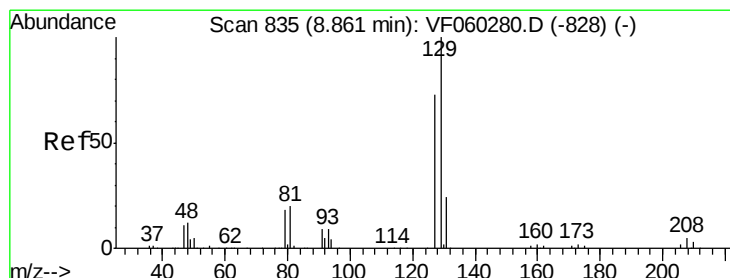
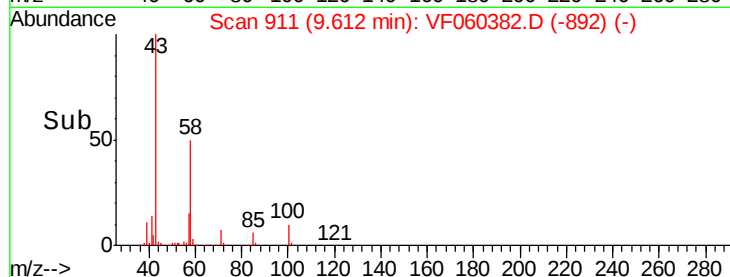
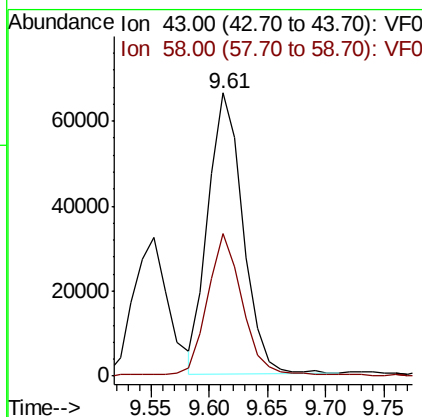
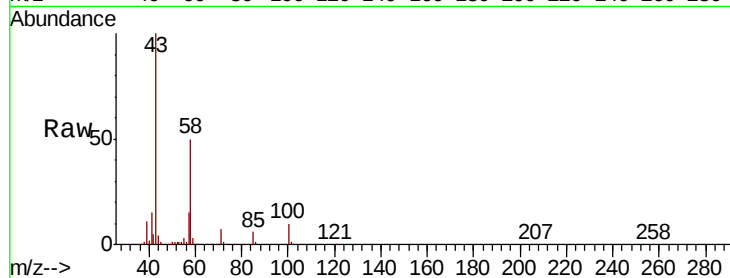
#59  
2-Hexanone  
Concen: 93.577 ug/l  
RT: 9.61 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

Tot Ion: 43 Resp: 136634  
Ion Ratio Lower Upper  
43 100  
58 50.2 25.9 77.6

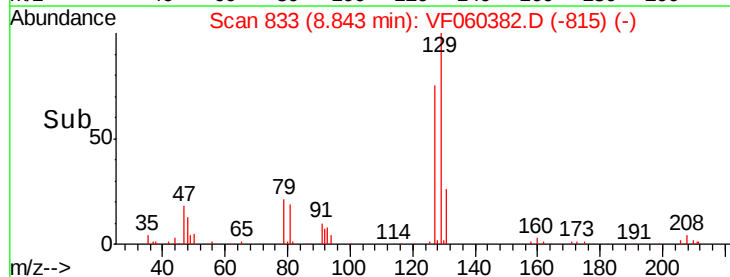
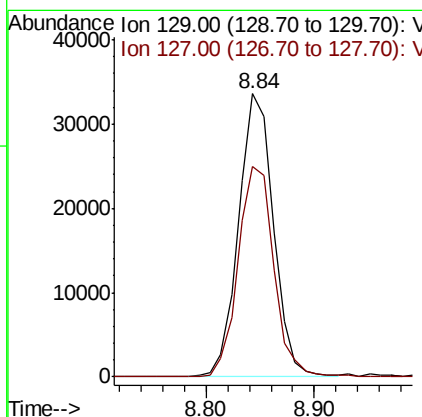
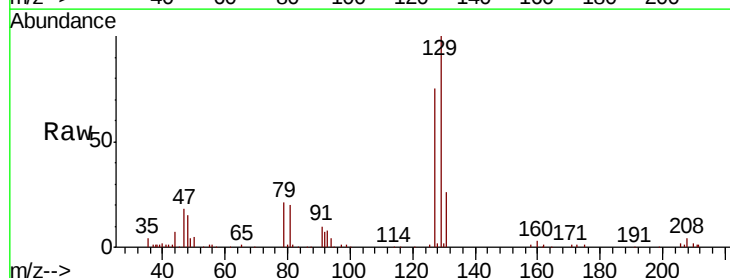
Manual Integrations  
APPROVED

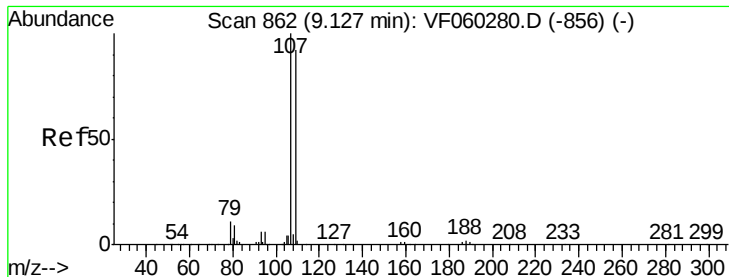
apatel  
10/1/2018 3:03:56 PM



#60  
Dibromochloromethane  
Concen: 22.264 ug/l  
RT: 8.84 min Scan# 833  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Tgt Ion: 129 Resp: 75463  
Ion Ratio Lower Upper  
129 100  
127 74.5 36.6 109.8





#61

1,2-Dibromoethane

Concen: 22.238 ug/l

RT: 9.12 min Scan# 861

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 107 Resp: 56316

Ion Ratio Lower Upper

107 100

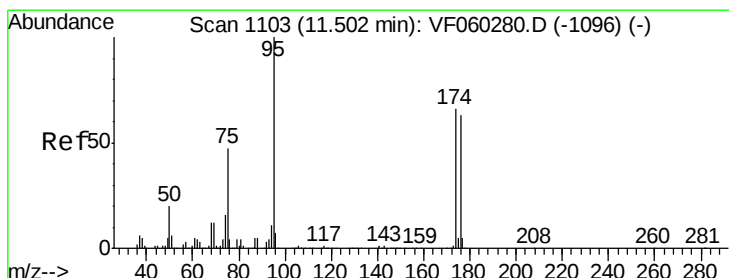
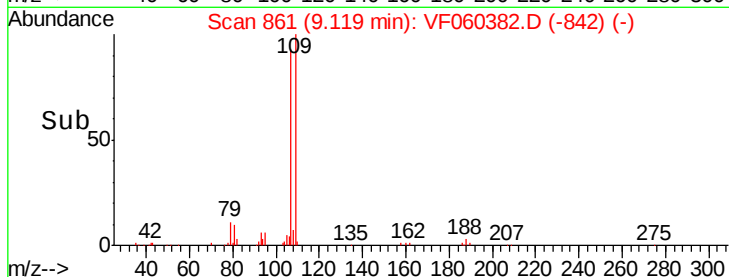
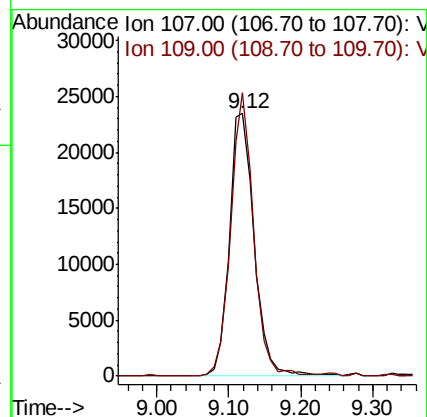
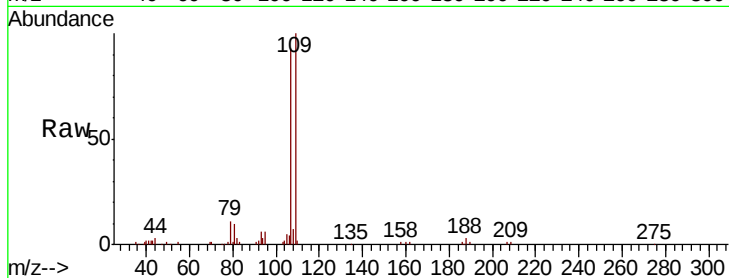
109 107.7 73.2 109.8

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#62

4-Bromofluorobenzene

Concen: 41.802 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

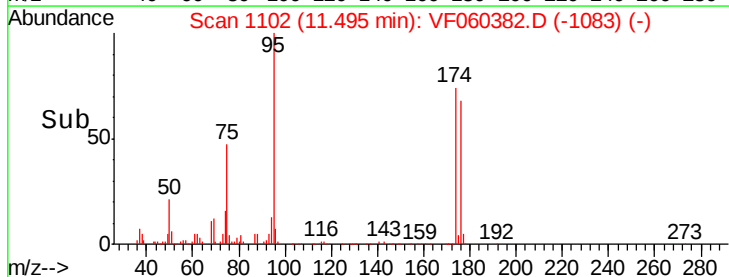
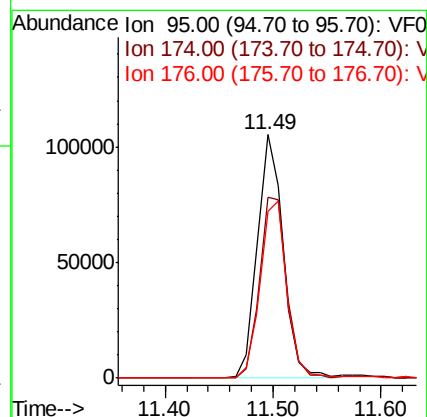
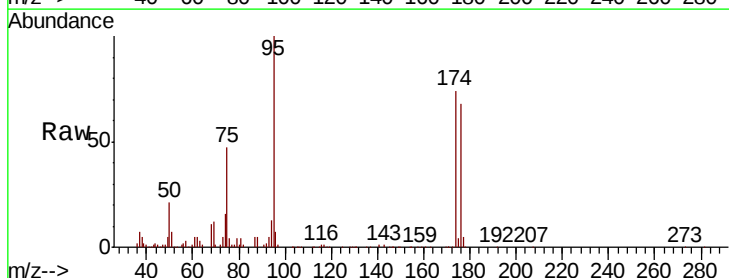
Tgt Ion: 95 Resp: 175660

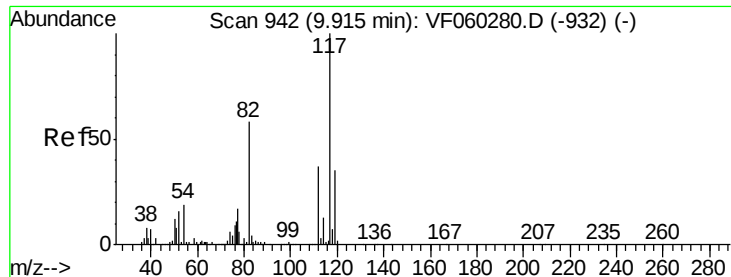
Ion Ratio Lower Upper

95 100

174 74.3 0.0 131.2

176 68.3 0.0 126.6





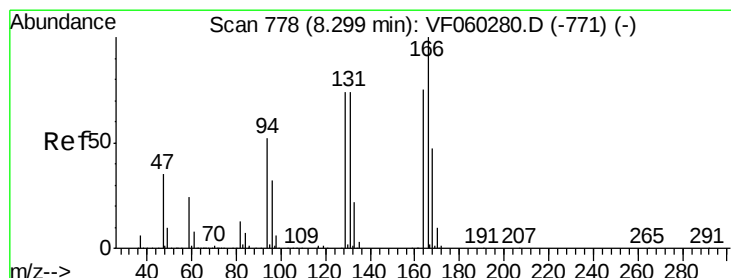
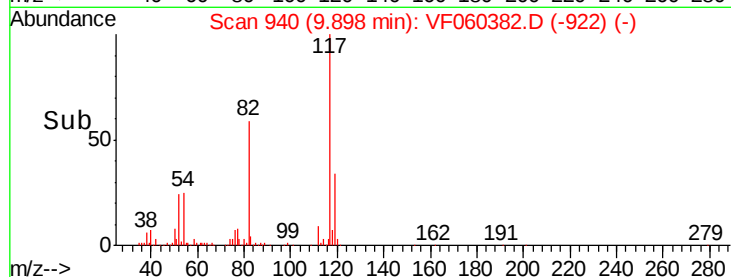
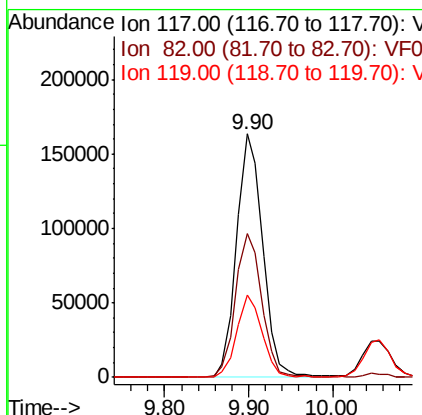
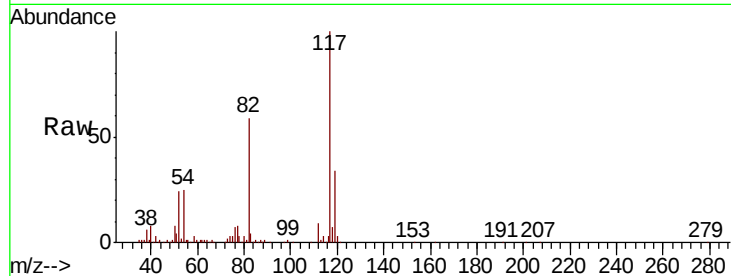
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.90 min Scan# 940  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 354648 |       |       |
| 82      | 59.1  | 46.2   | 69.2  |       |
| 119     | 33.6  | 27.8   | 41.6  |       |

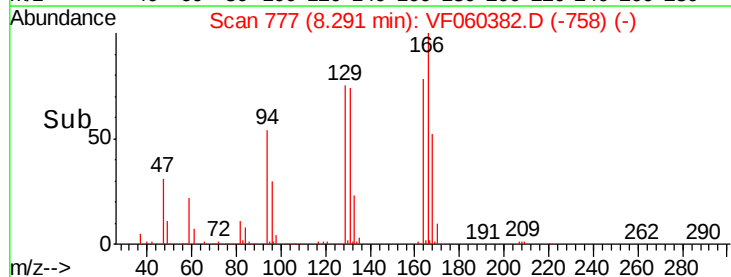
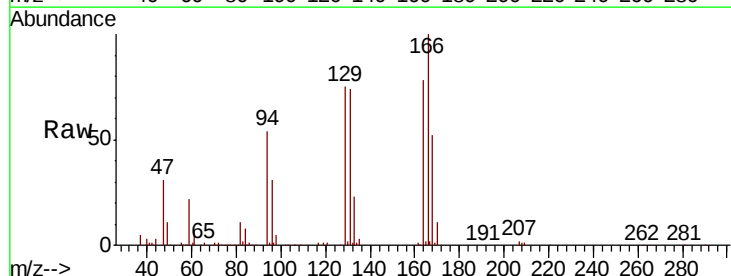
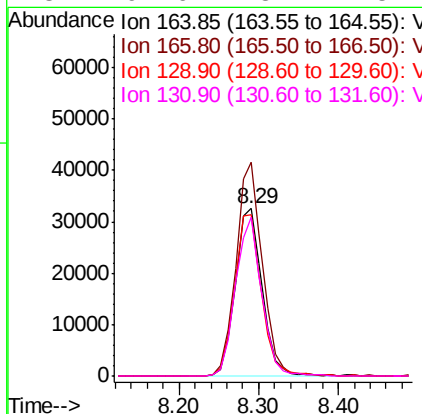
Manual Integrations  
APPROVED

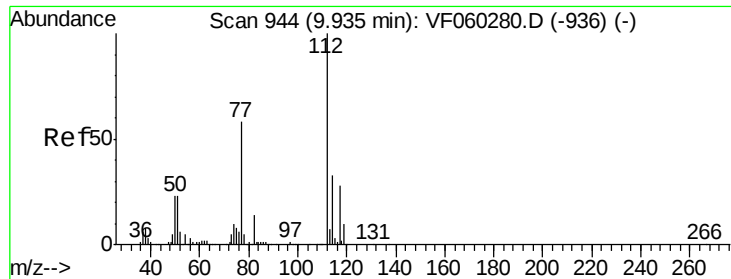
apatel  
10/1/2018 3:03:56 PM



#64  
Tetrachloroethene  
Concen: 23.648 ug/l  
RT: 8.29 min Scan# 777  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 76028 |       |       |
| 166     | 127.4 | 106.8 | 160.2 |       |
| 129     | 96.1  | 78.8  | 118.2 |       |
| 131     | 94.6  | 78.7  | 118.1 |       |





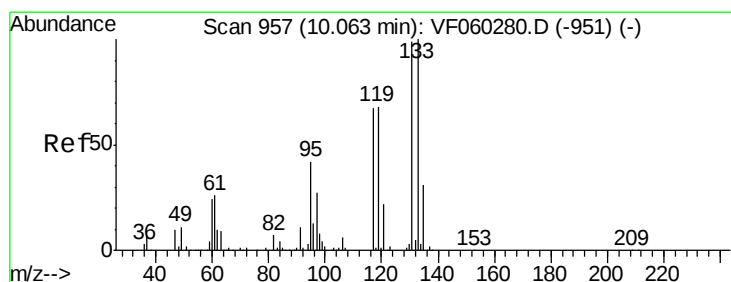
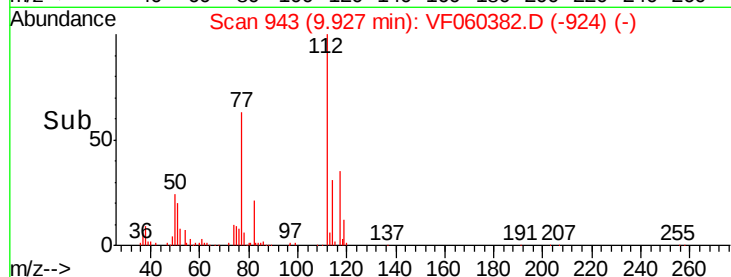
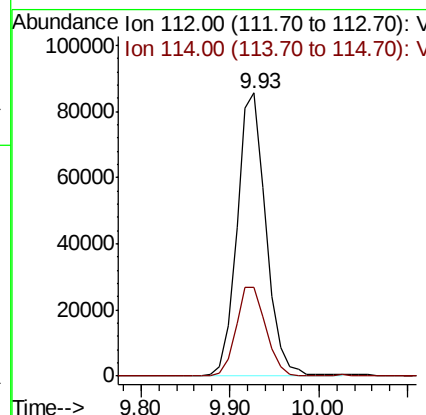
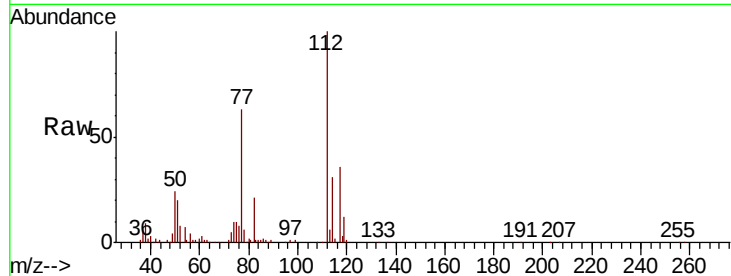
#65  
Chlorobenzene  
Concen: 24.106 ug/l  
RT: 9.93 min Scan# 943  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 193765 |       |       |
| 114     | 31.2  | 26.6   | 40.0  |       |

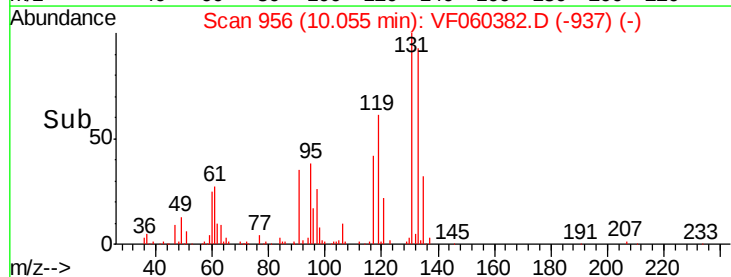
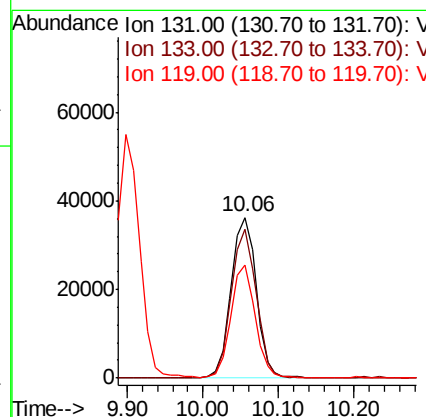
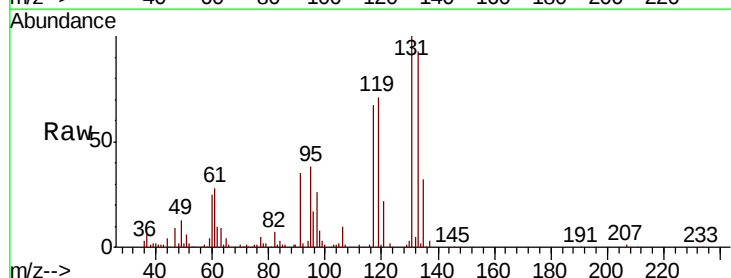
Manual Integrations  
APPROVED

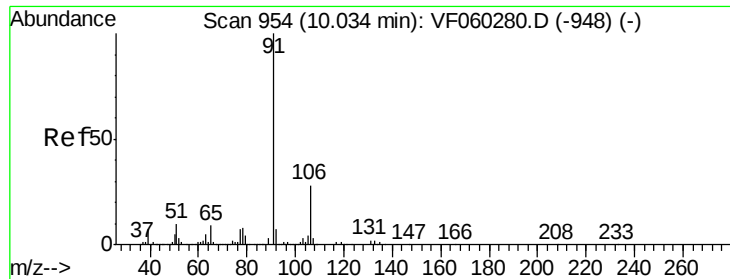
apatel  
10/1/2018 3:03:56 PM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 25.068 ug/l  
RT: 10.06 min Scan# 956  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 131     | 100   | 83621 |       |       |
| 133     | 92.9  | 50.4  | 151.2 |       |
| 119     | 70.6  | 34.8  | 104.3 |       |





#67

Ethyl Benzene

Concen: 24.572 ug/l

RT: 10.03 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 91 Resp: 365181

Ion Ratio Lower Upper

91 100

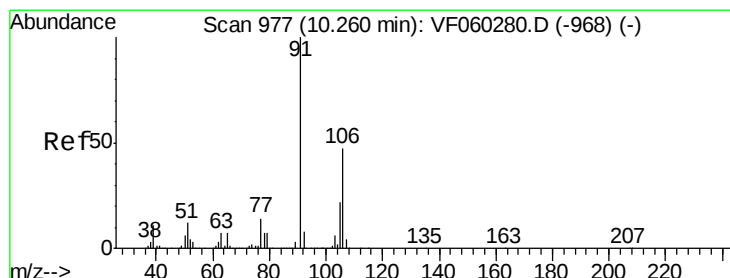
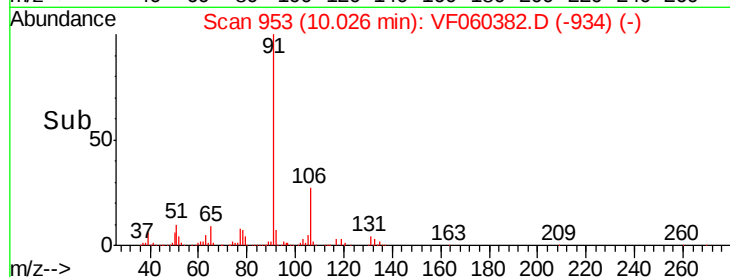
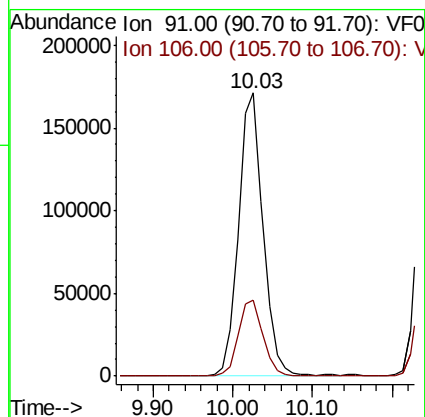
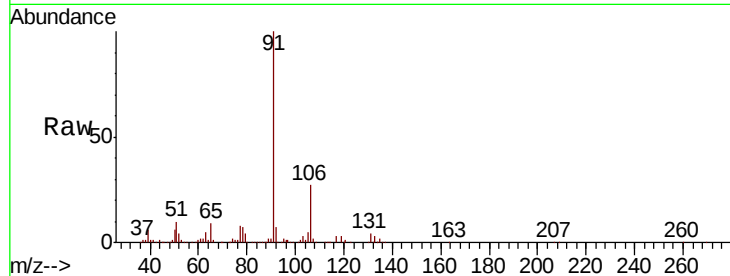
106 26.7 22.7 34.1

Manual Integrations

APPROVED

apatel

10/1/2018 3:03:56 PM



#68

m/p-Xylenes

Concen: 50.172 ug/l

RT: 10.25 min Scan# 976

Delta R.T. -0.01 min

Lab File: VF060382.D

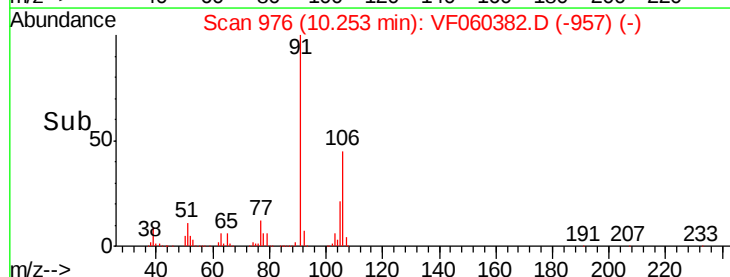
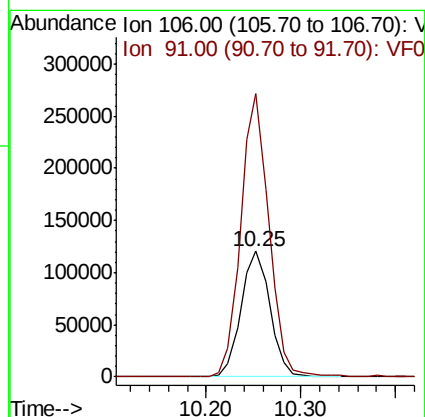
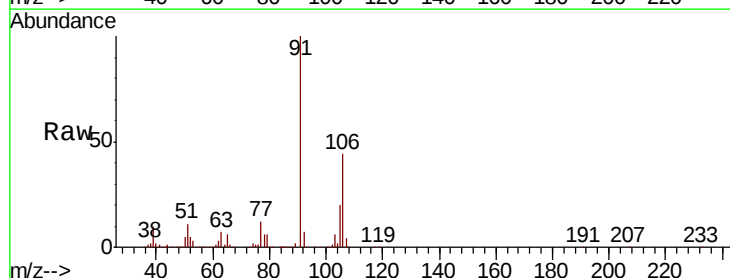
Acq: 28 Sep 2018 22:13

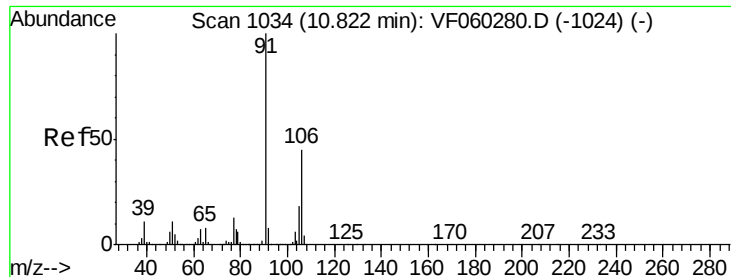
Tgt Ion: 106 Resp: 257610

Ion Ratio Lower Upper

106 100

91 225.3 172.3 258.5





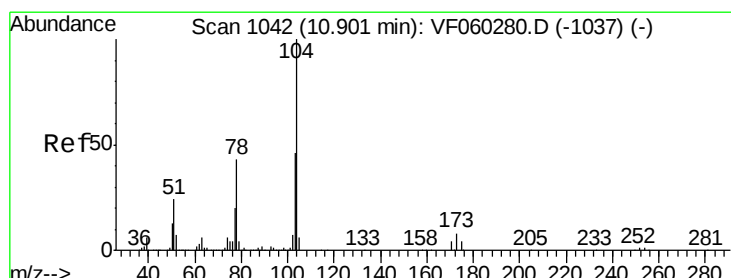
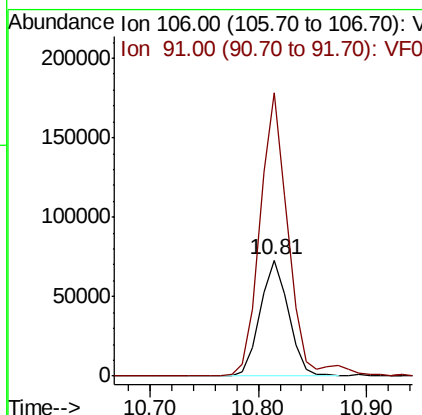
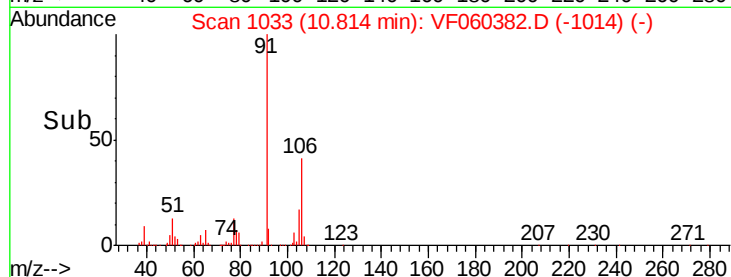
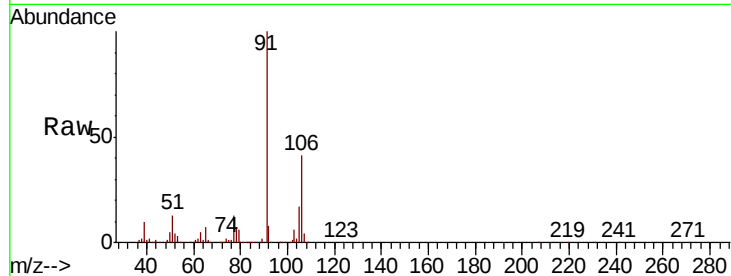
#69  
o-Xylene  
Concen: 23.198 ug/l  
RT: 10.81 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 106     | 106   | 100   |       |       |
| 91      | 243.3 | 110.9 | 332.6 |       |

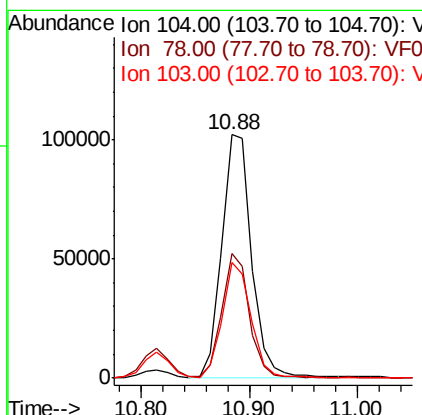
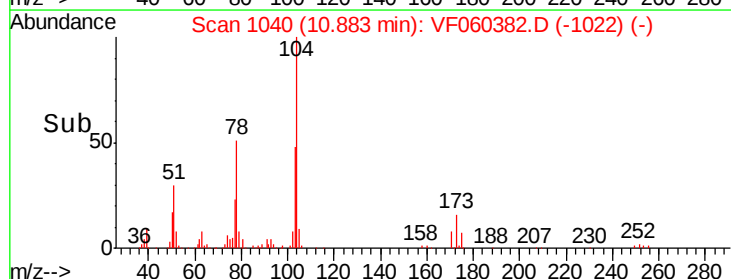
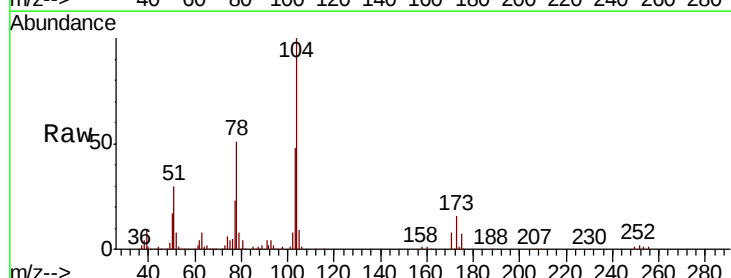
Manual Integrations  
APPROVED

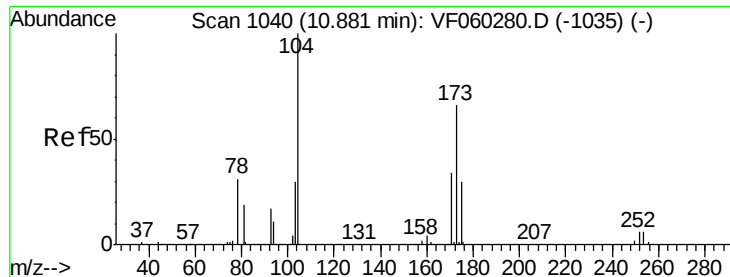
apatel  
10/1/2018 3:03:56 PM



#70  
Styrene  
Concen: 23.894 ug/l  
RT: 10.88 min Scan# 1040  
Delta R.T. -0.02 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 104     | 104  | 100   |       |       |
| 78      | 51.0 | 35.0  | 52.6  |       |
| 103     | 47.7 | 37.4  | 56.0  |       |





#71

Bromoform

Concen: 21.805 ug/l

RT: 10.87 min Scan# 1039

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

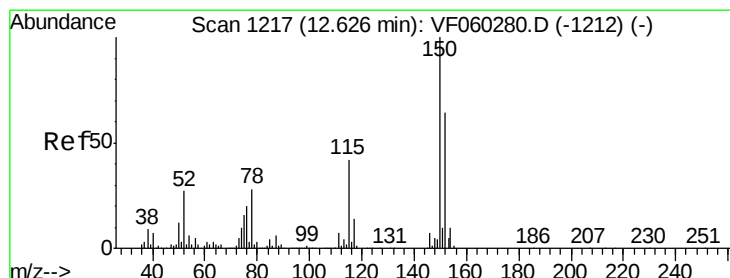
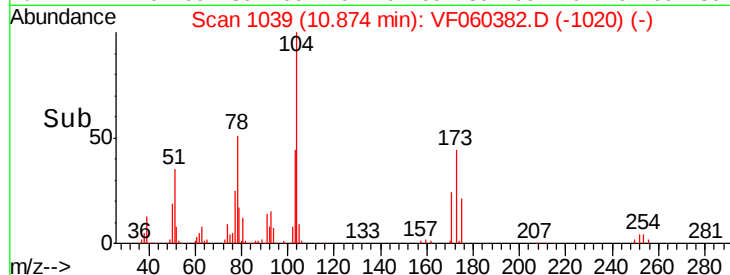
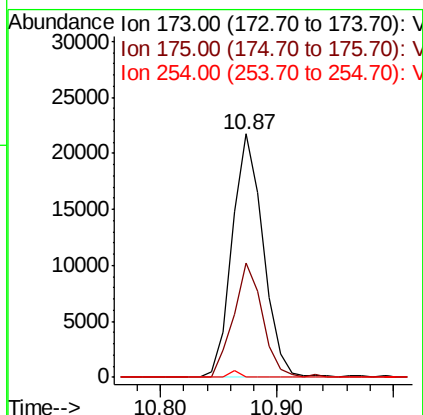
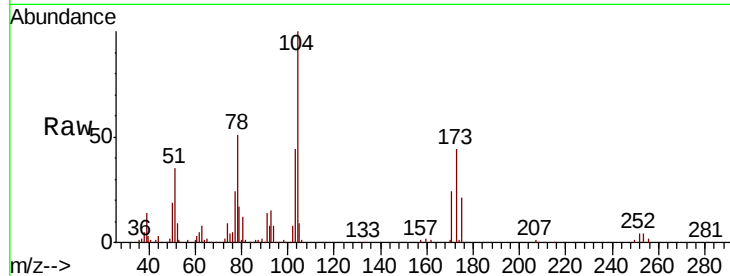
ClientSampleId :

VF0928SBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 39947 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 47.1  | 22.3  | 66.9  |
| 254       | 0.0   | 0.0   | 0.0   |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

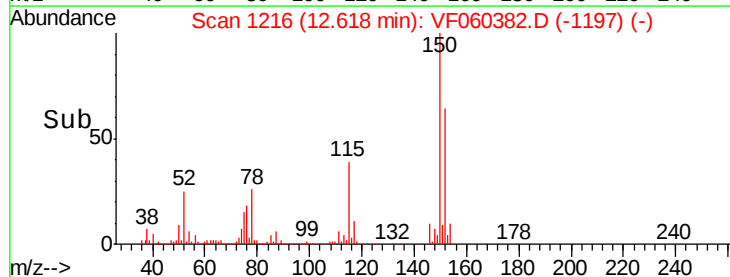
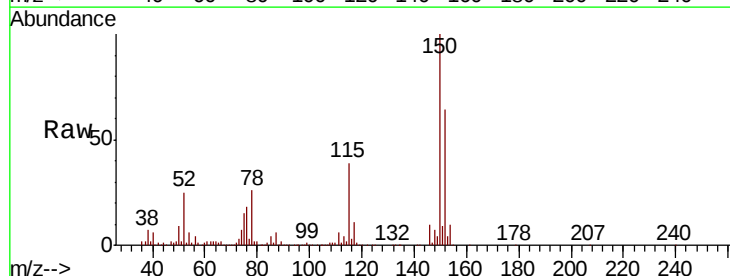
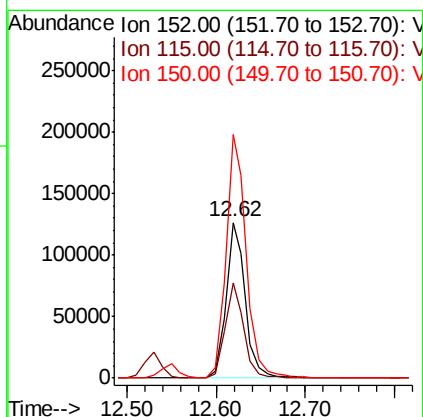
RT: 12.62 min Scan# 1216

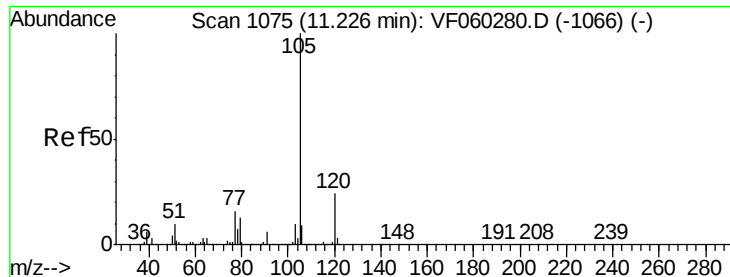
Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 191800 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 61.2  | 32.6  | 97.8   |
| 150       | 156.7 | 0.0   | 314.2  |





#73

Isopropylbenzene

Concen: 24.053 ug/l

RT: 11.22 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleID :

VF0928SBS01

Tot Ion: 105 Resp: 414151

Ion Ratio Lower Upper

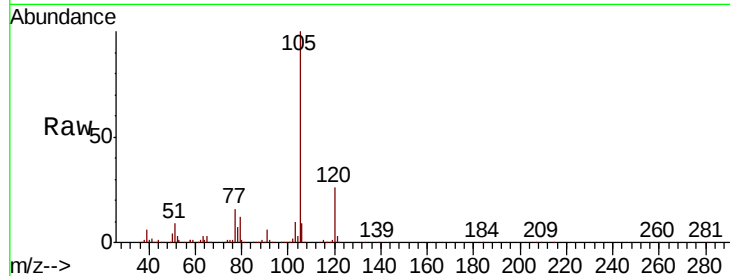
105 100

120 26.0 12.2 36.6

Manual Integrations  
APPROVED

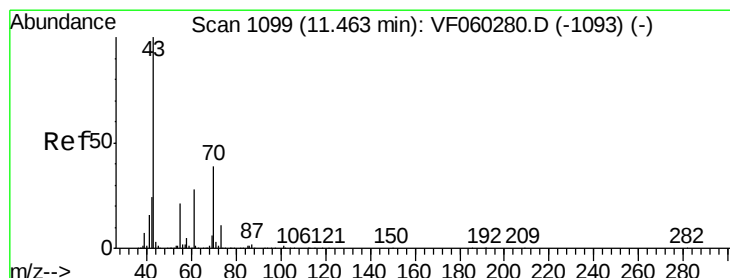
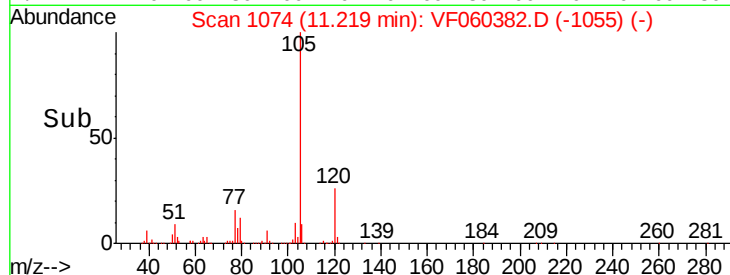
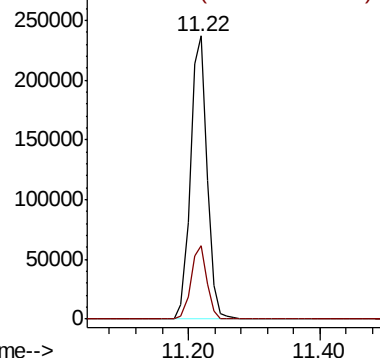
apatel

10/1/2018 3:03:56 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.144 ug/l

RT: 11.45 min Scan# 1097

Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Tgt Ion: 43 Resp: 81307

Ion Ratio Lower Upper

43 100

70 29.4 31.4 47.2#

55 17.1 16.8 25.2

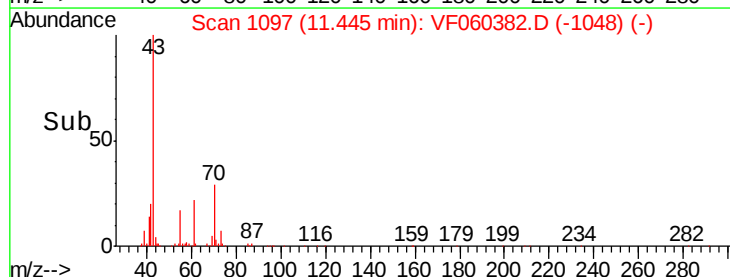
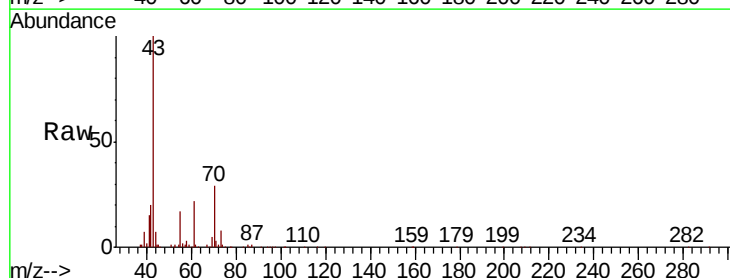
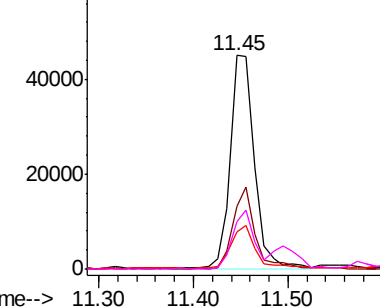
61 22.1 22.6 34.0#

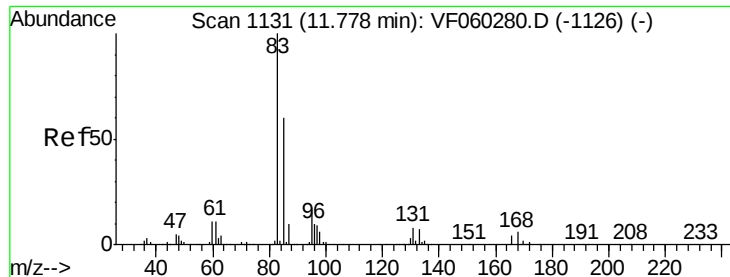
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.671 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

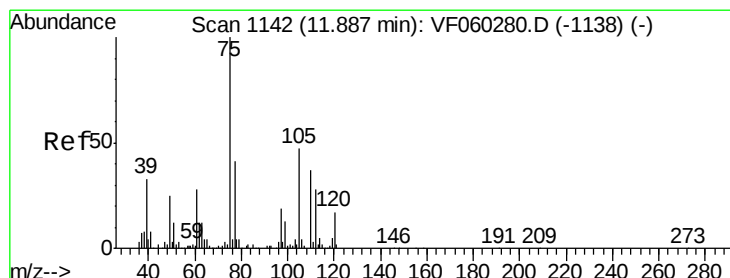
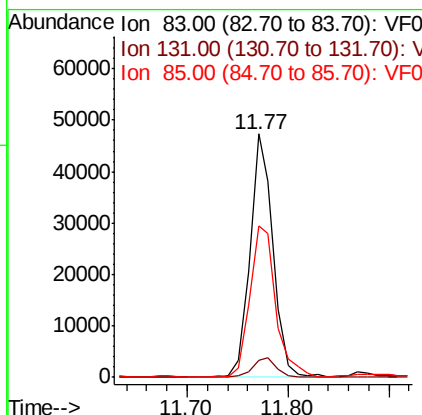
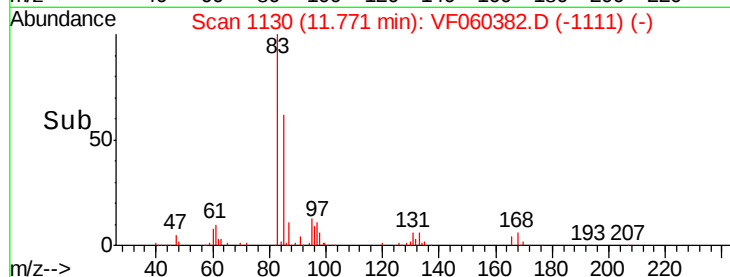
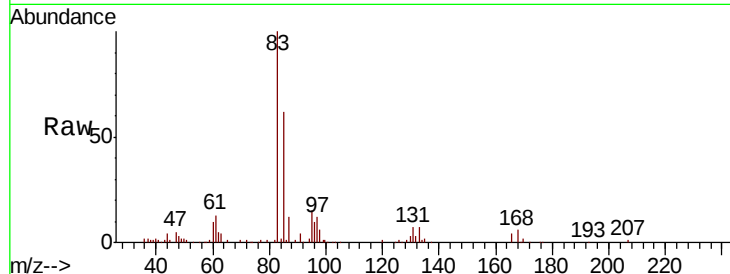
ClientSampleId :

VF0928SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 75284 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 7.0   | 4.2   | 12.4  |
| 85       | 62.0  | 30.1  | 90.5  |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#76

1,2,3-Trichloropropane

Concen: 24.721 ug/l

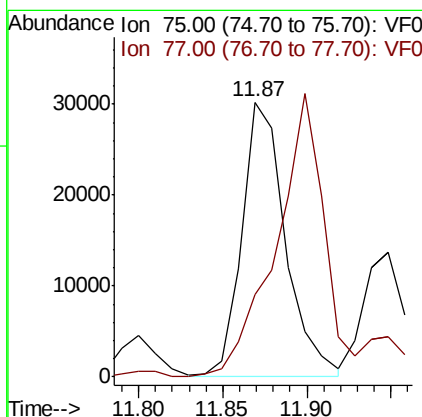
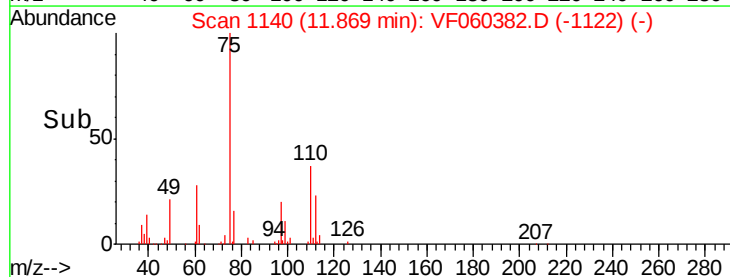
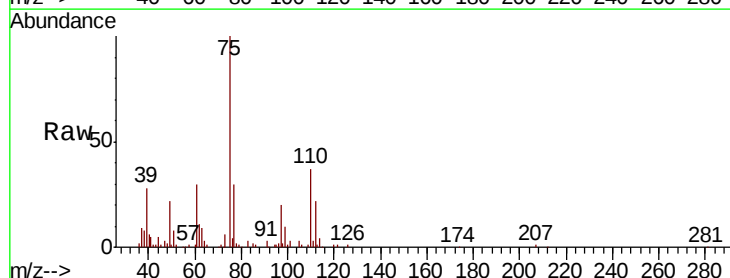
RT: 11.87 min Scan# 1140

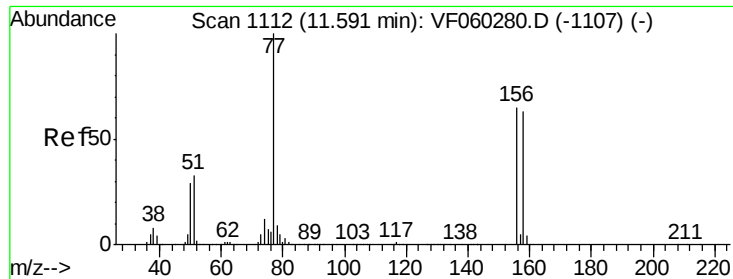
Delta R.T. -0.02 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 54013 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 30.1  | 20.5  | 61.5  |





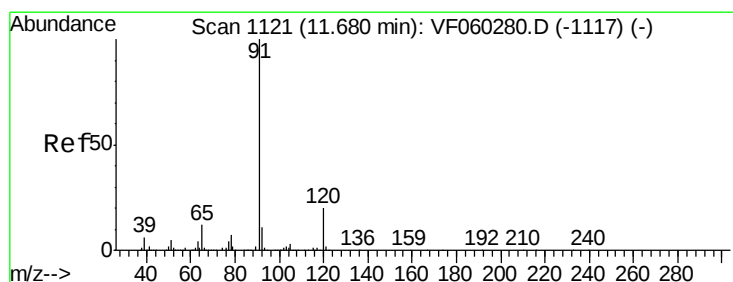
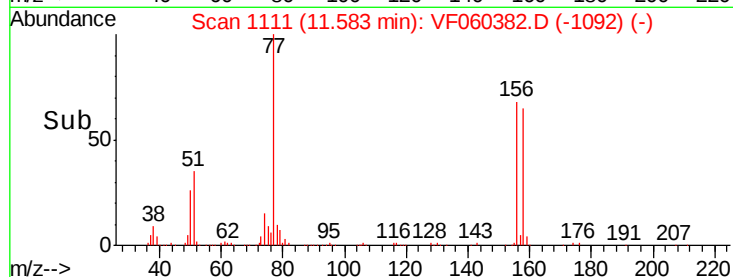
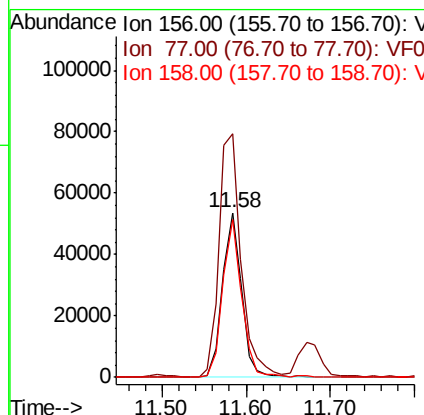
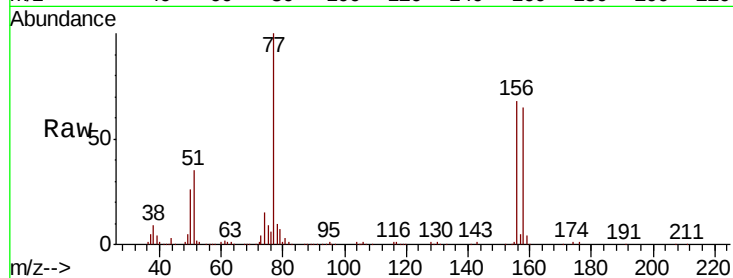
#77  
Bromobenzene  
Concen: 22.811 ug/l  
RT: 11.58 min Scan# 1111  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBSD01

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 156     | 100   |       |       |       |
| 77      | 147.9 | 77.3  | 232.1 |       |
| 158     | 96.3  | 48.4  | 145.2 |       |

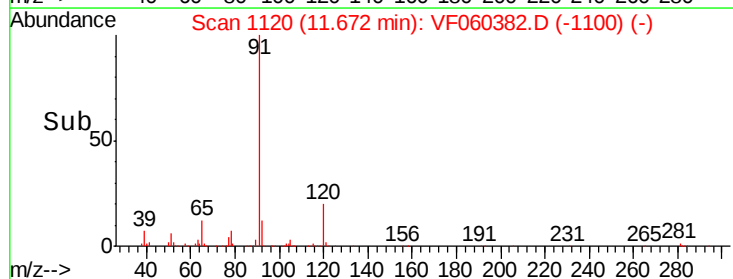
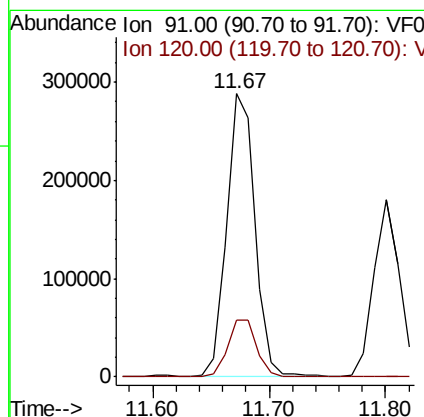
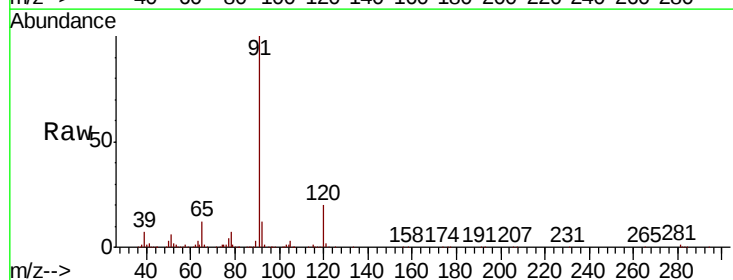
Manual Integrations  
APPROVED

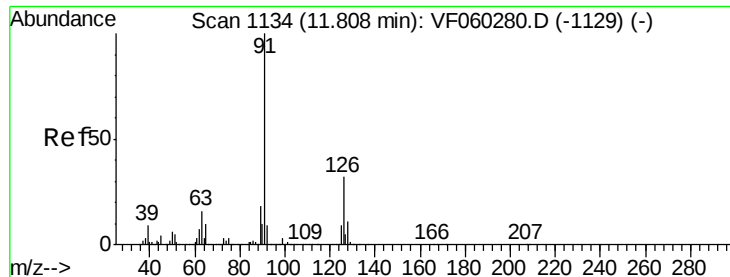
apatel  
10/1/2018 3:03:56 PM



#78  
n-propylbenzene  
Concen: 23.982 ug/l  
RT: 11.67 min Scan# 1120  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 91      | 100  |       |       |       |
| 120     | 20.0 | 10.0  | 29.8  |       |





#79

2-Chlorotoluene

Concen: 23.798 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

ClientSampleId :

VF0928SBS01

Tot Ion: 91 Resp: 276409

Ion Ratio Lower Upper

91 100

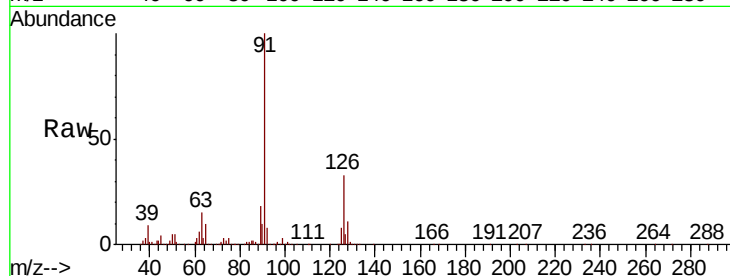
126 32.9 16.1 48.3

Manual Integrations

APPROVED

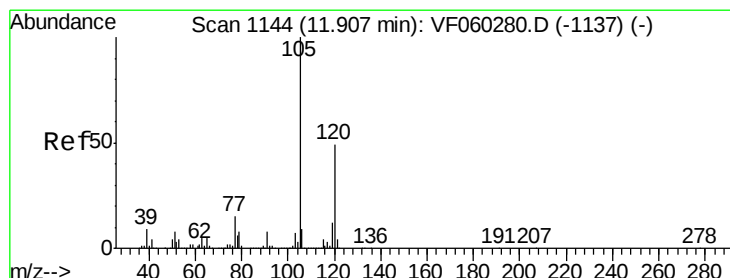
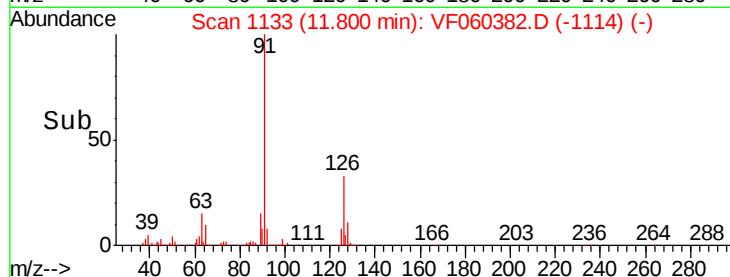
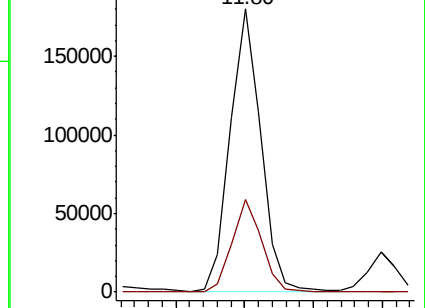
apatel

10/1/2018 3:03:56 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 24.994 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF060382.D

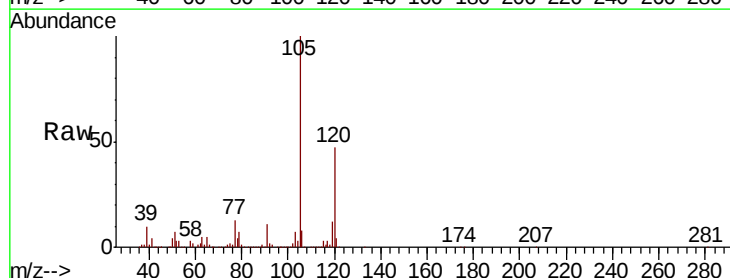
Acq: 28 Sep 2018 22:13

Tgt Ion: 105 Resp: 346420

Ion Ratio Lower Upper

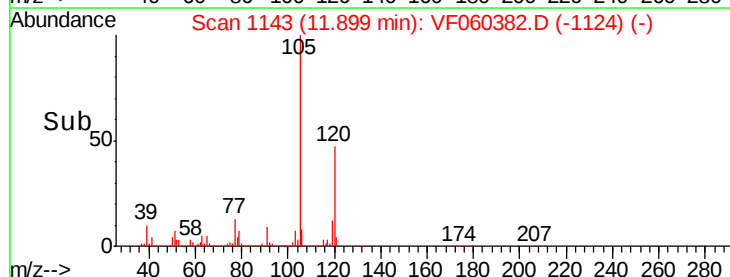
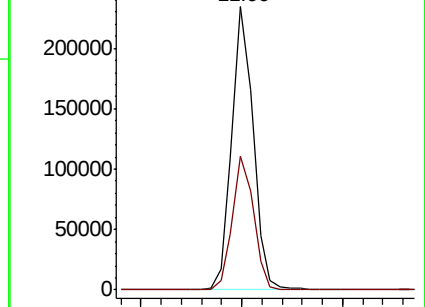
105 100

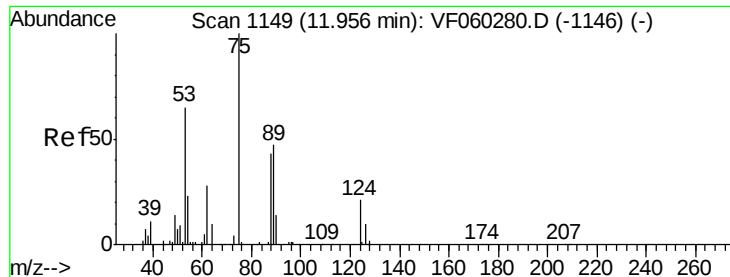
120 47.2 24.4 73.2



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: 21.262 ug/l m

RT: 11.95 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

Instrument :

MSVOA\_F

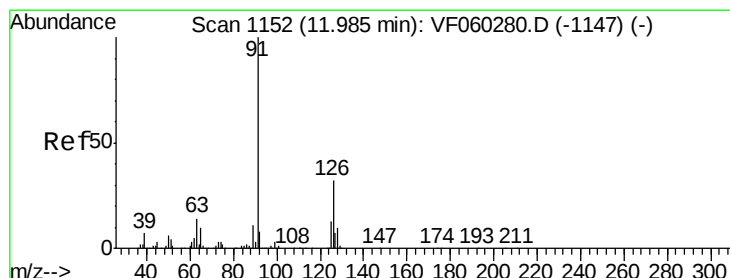
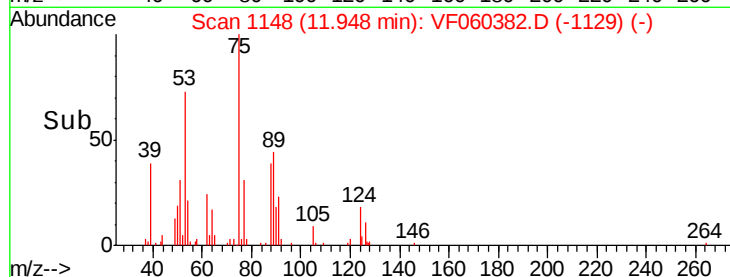
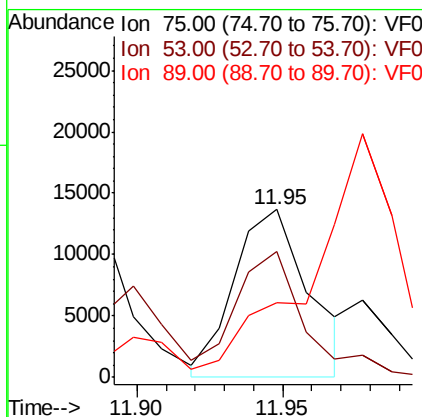
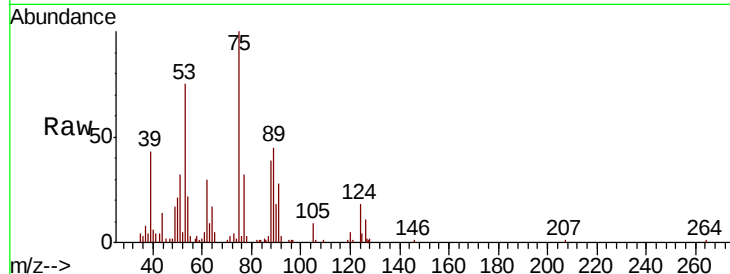
ClientSampleId :

VF0928SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 24551 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 74.7  | 56.5  | 84.7  |
| 89       | 44.8  | 40.6  | 60.8  |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#82

4-Chlorotoluene

Concen: 23.401 ug/l

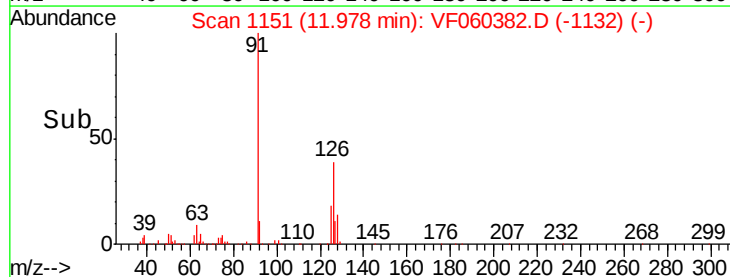
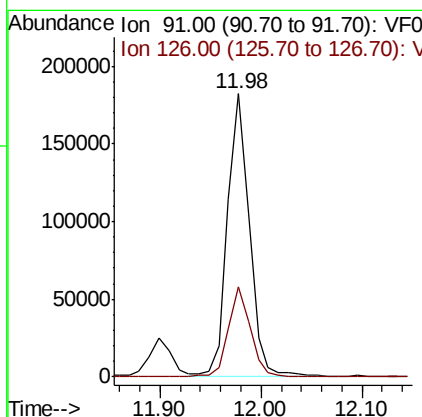
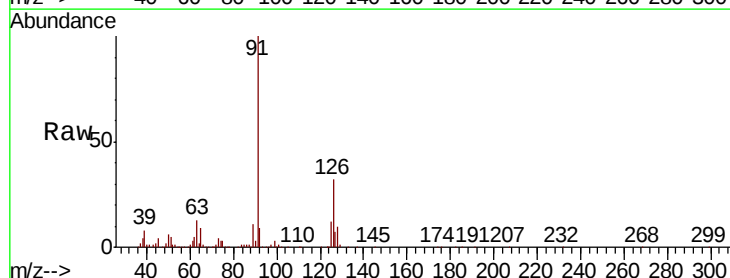
RT: 11.98 min Scan# 1151

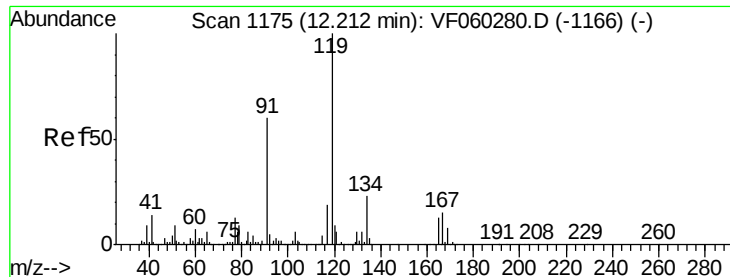
Delta R.T. -0.01 min

Lab File: VF060382.D

Acq: 28 Sep 2018 22:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 273179 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 31.7  | 16.1  | 48.2   |





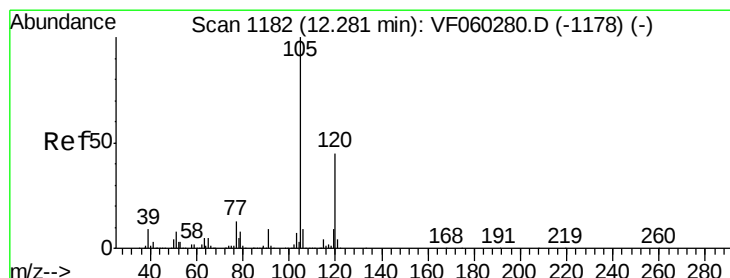
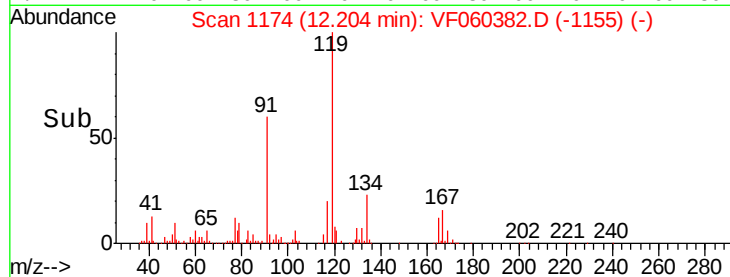
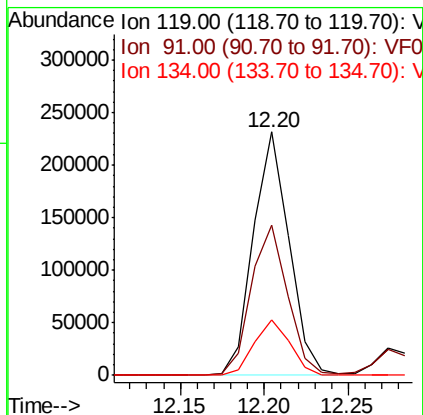
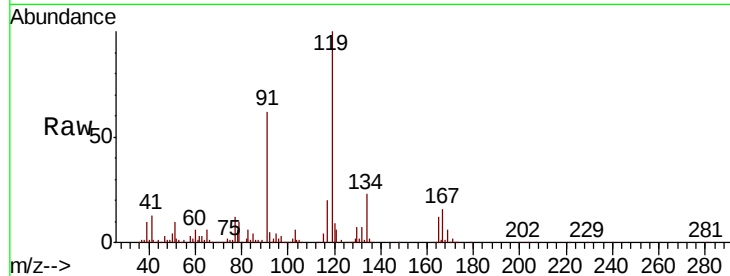
#83  
tert-Butylbenzene  
Concen: 24.440 ug/l  
RT: 12.20 min Scan# 1174  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 61.6  | 30.3  | 91.0  |
| 134     | 22.5  | 11.6  | 34.8  |

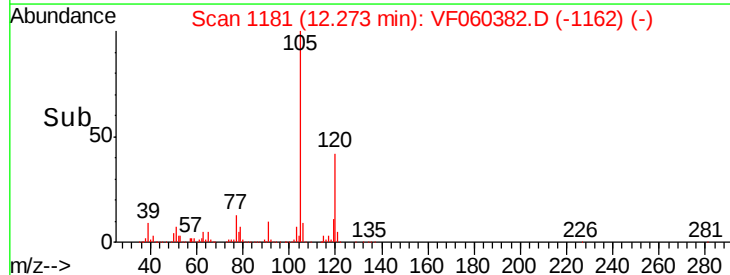
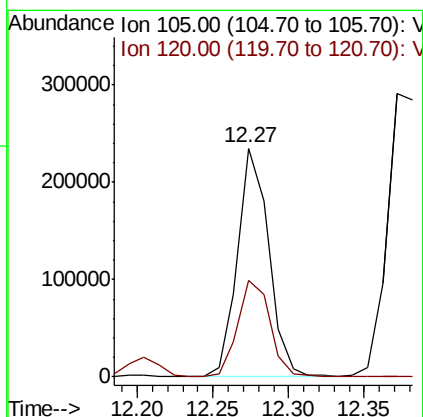
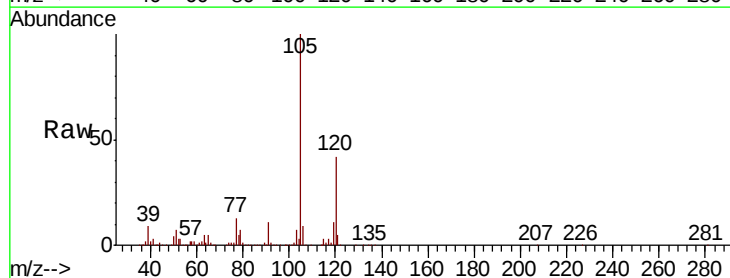
Manual Integrations  
APPROVED

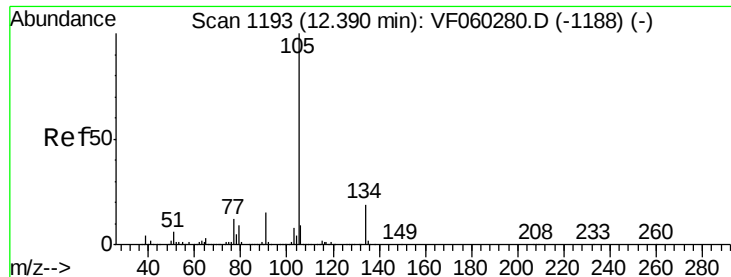
apatel  
10/1/2018 3:03:56 PM



#84  
1,2,4-Trimethylbenzene  
Concen: 24.069 ug/l  
RT: 12.27 min Scan# 1181  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 42.2  | 22.4  | 67.0  |





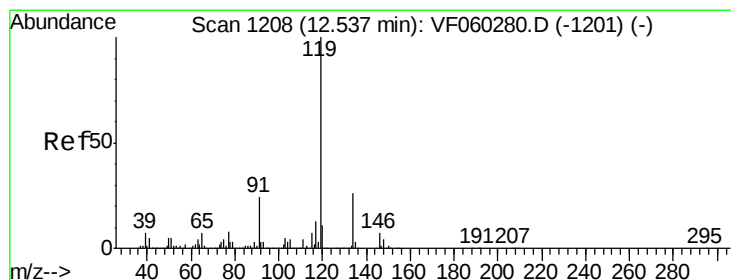
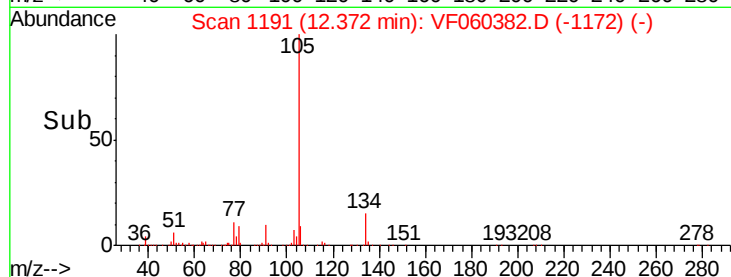
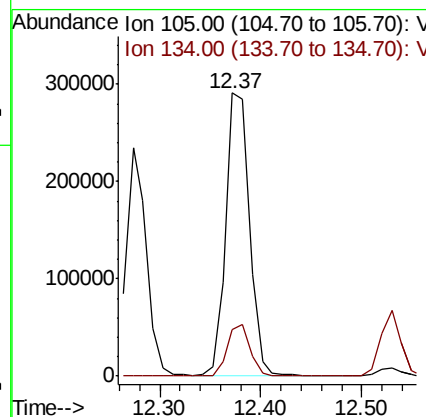
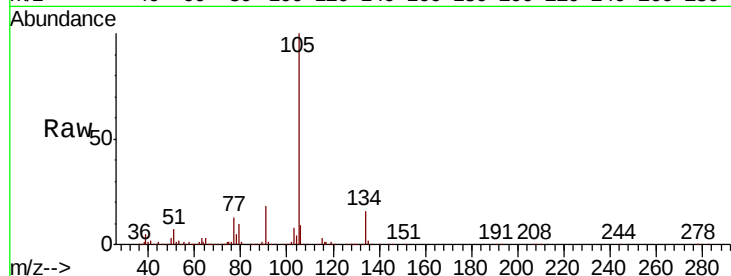
#85  
 sec-Butylbenzene  
 Concen: 24.961 ug/l  
 RT: 12.37 min Scan# 1191  
 Delta R.T. -0.02 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 476842 |       |       |
| 134     | 16.4  | 9.6    | 28.6  |       |

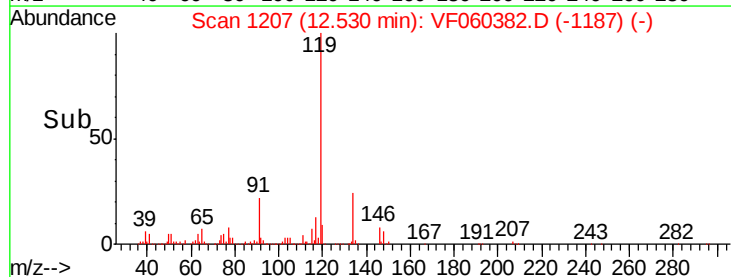
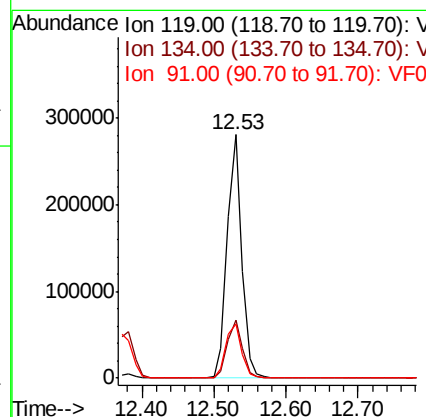
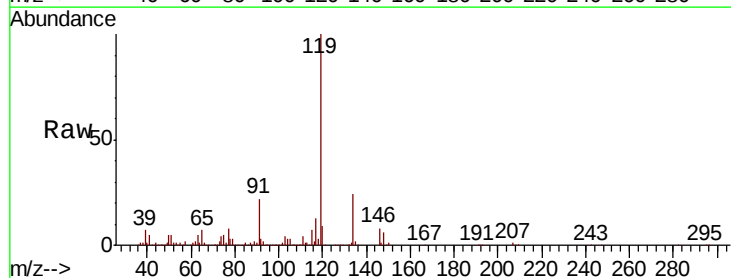
Manual Integrations  
 APPROVED

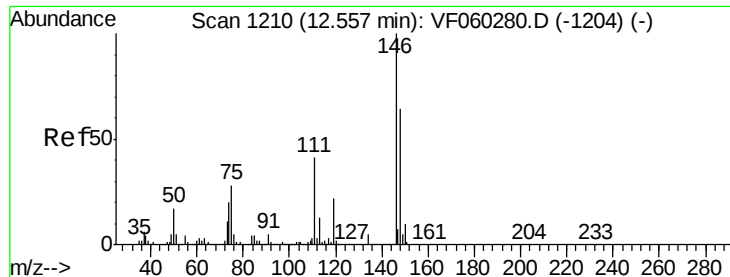
apatel  
 10/1/2018 3:03:56 PM



#86  
 p-Isopropyltoluene  
 Concen: 26.180 ug/l  
 RT: 12.53 min Scan# 1207  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 391562 |       |       |
| 134     | 23.9  | 12.9   | 38.7  |       |
| 91      | 22.3  | 11.9   | 35.7  |       |





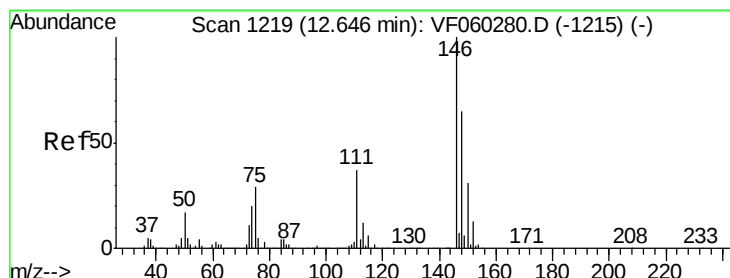
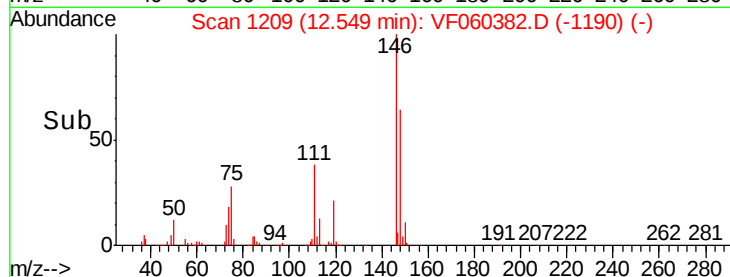
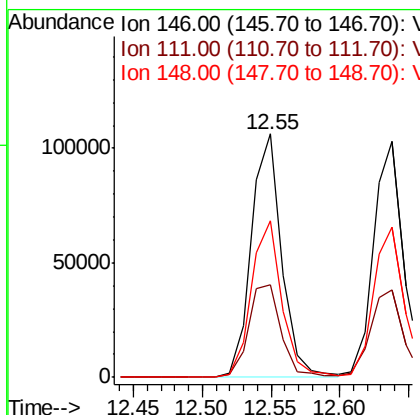
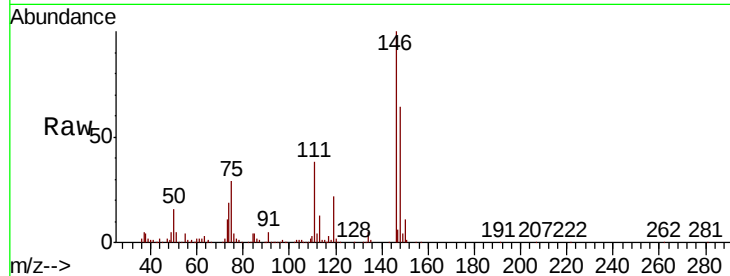
#87  
 1,3-Dichlorobenzene  
 Concen: 23.654 ug/l  
 RT: 12.55 min Scan# 1209  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 164020 |       |       |
| 111     | 37.8  | 20.5   | 61.6  |       |
| 148     | 64.2  | 32.2   | 96.6  |       |

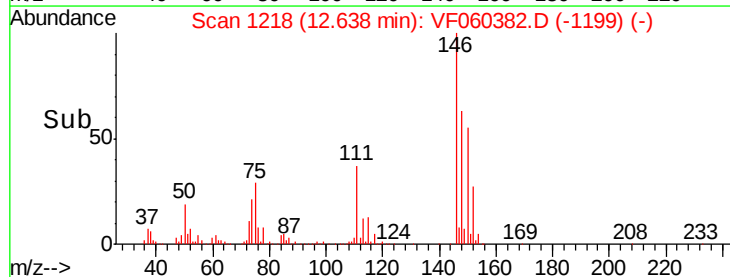
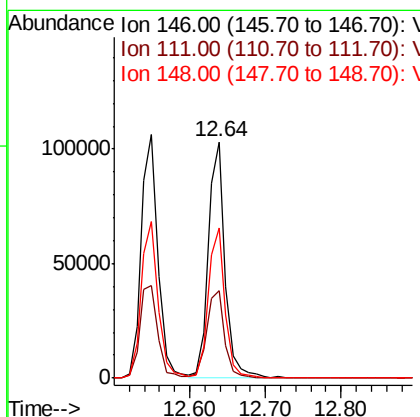
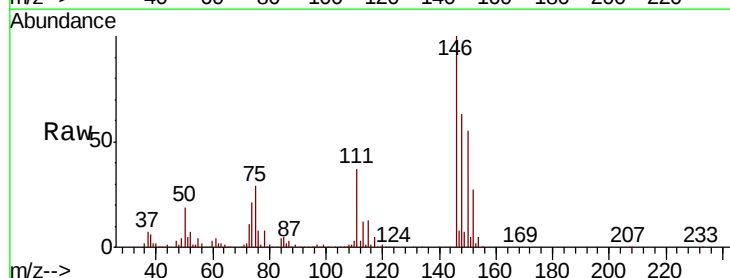
Manual Integrations  
 APPROVED

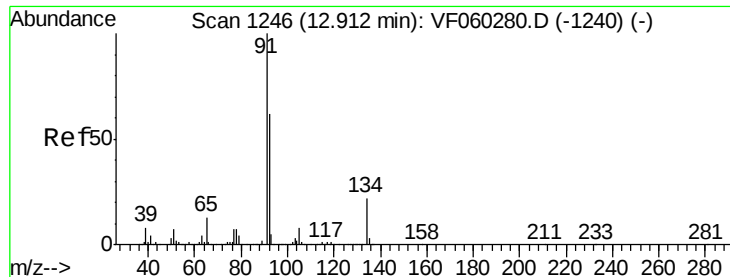
apatel  
 10/1/2018 3:03:56 PM



#88  
 1,4-Dichlorobenzene  
 Concen: 23.490 ug/l  
 RT: 12.64 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 160995 |       |       |
| 111     | 37.3  | 18.7   | 56.1  |       |
| 148     | 63.5  | 32.4   | 97.0  |       |





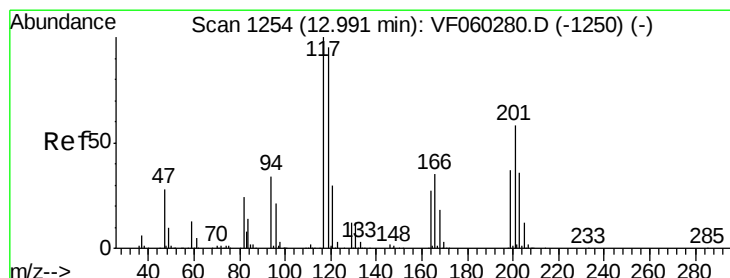
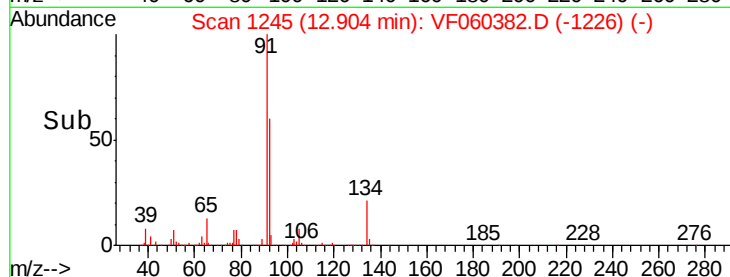
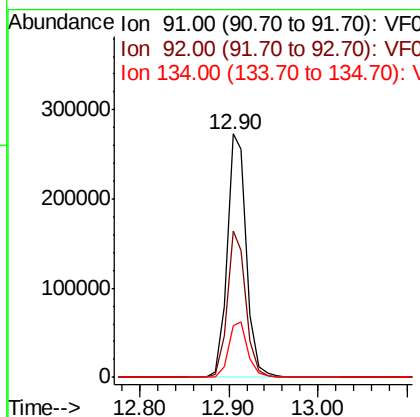
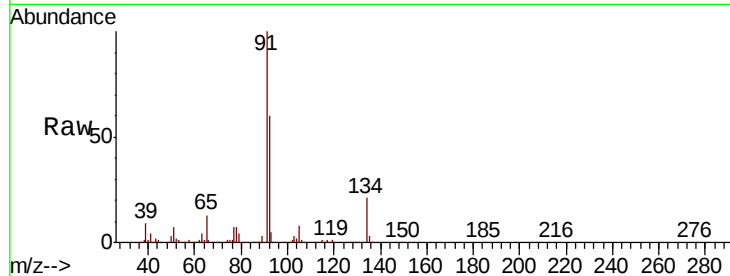
#89  
n-Butylbenzene  
Concen: 25.337 ug/l  
RT: 12.90 min Scan# 1245  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 60.3  | 31.1  | 93.5  |
| 134     | 21.0  | 11.0  | 33.0  |

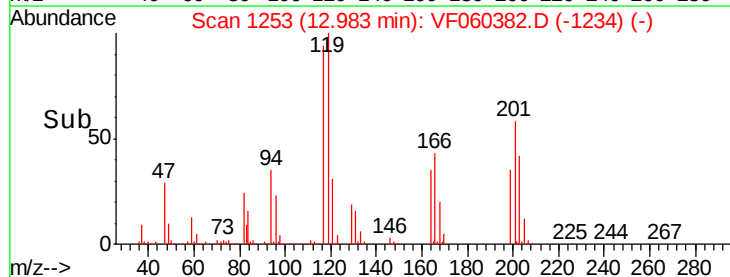
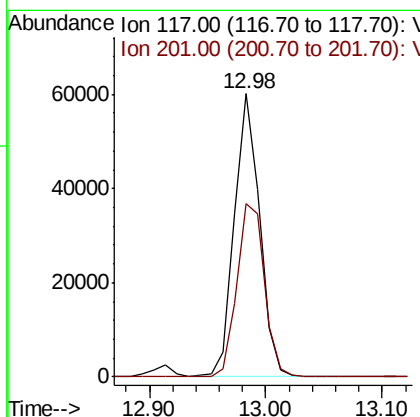
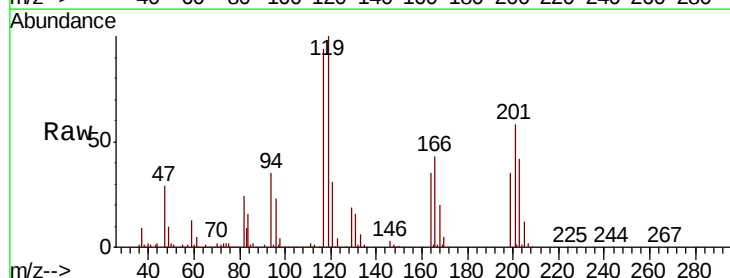
Manual Integrations  
APPROVED

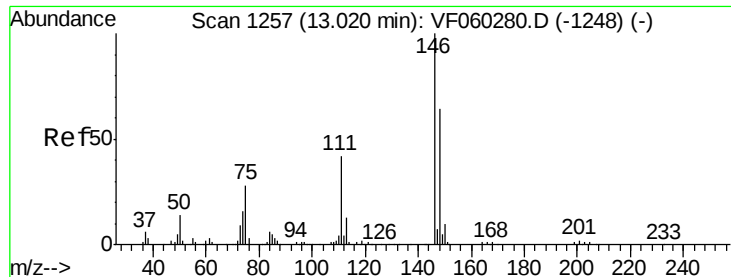
apatel  
10/1/2018 3:03:56 PM



#90  
Hexachloroethane  
Concen: 23.112 ug/l  
RT: 12.98 min Scan# 1253  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 61.4  | 29.0  | 87.0  |





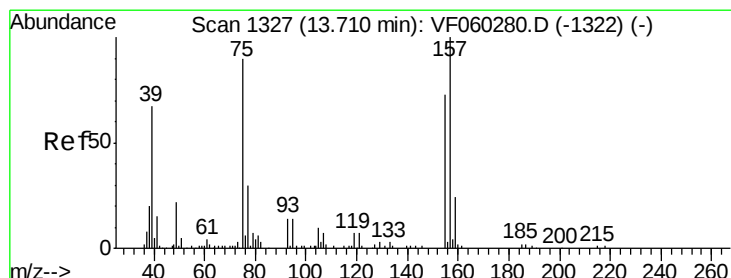
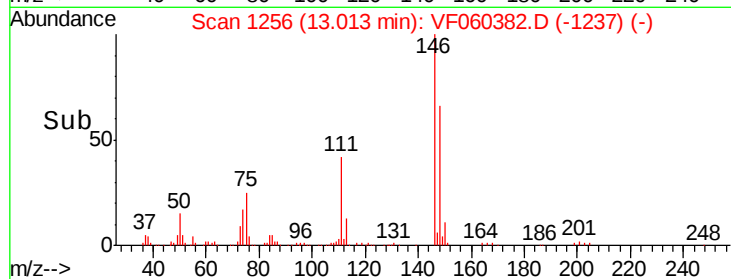
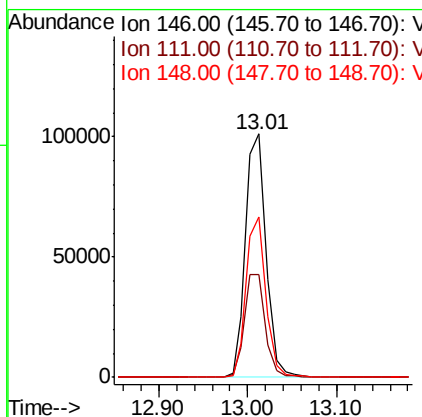
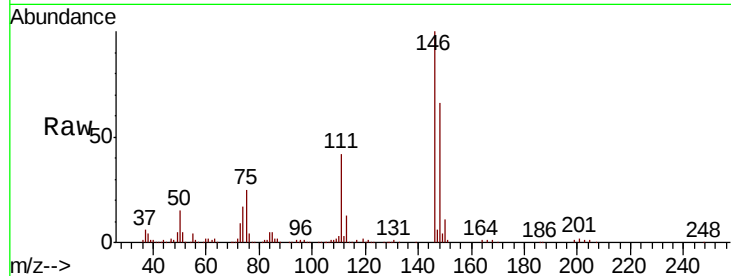
#91  
 1,2-Dichlorobenzene  
 Concen: 24.579 ug/l  
 RT: 13.01 min Scan# 1256  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 162581 |       |       |
| 111     | 42.1  | 20.9   | 62.8  |       |
| 148     | 65.7  | 31.9   | 95.9  |       |

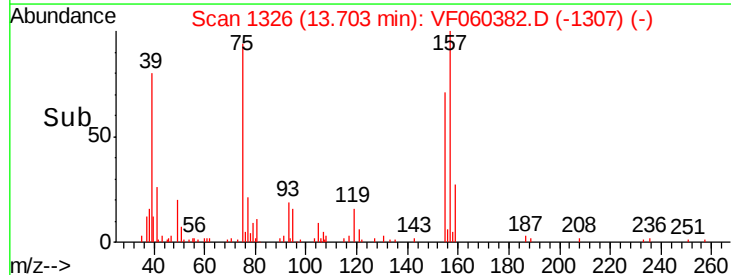
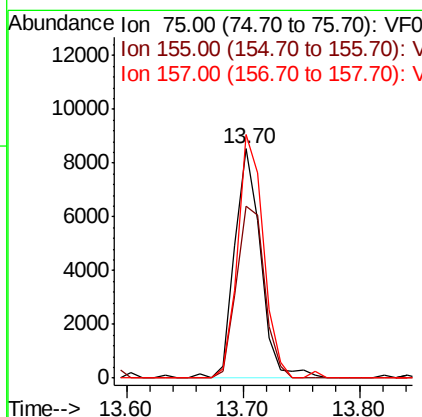
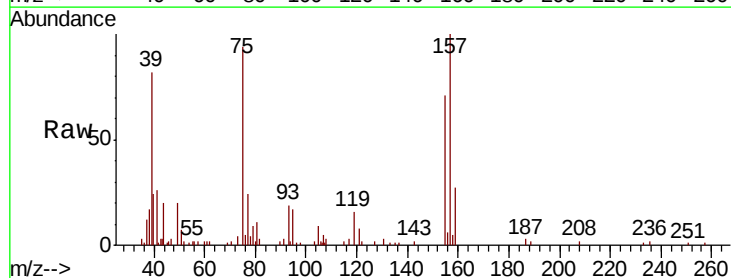
Manual Integrations  
 APPROVED

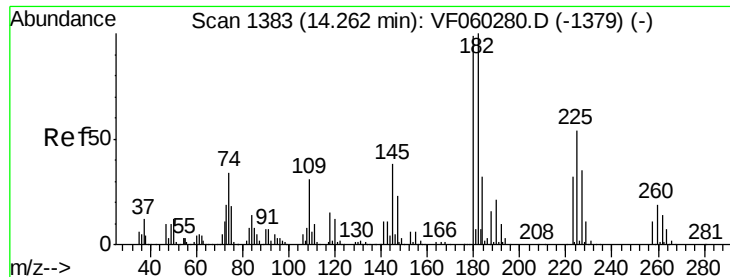
apatel  
 10/1/2018 3:03:56 PM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 23.155 ug/l  
 RT: 13.70 min Scan# 1326  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 13266 |       |       |
| 155     | 75.1  | 41.9  | 125.7 |       |
| 157     | 106.1 | 57.4  | 172.0 |       |





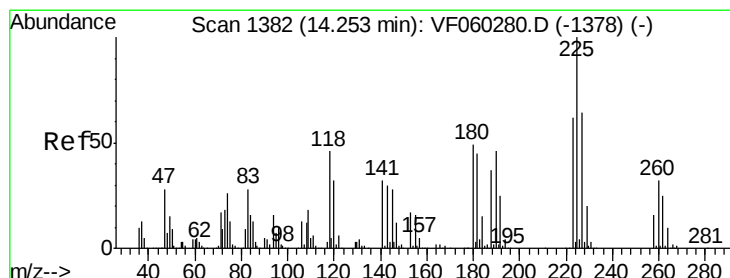
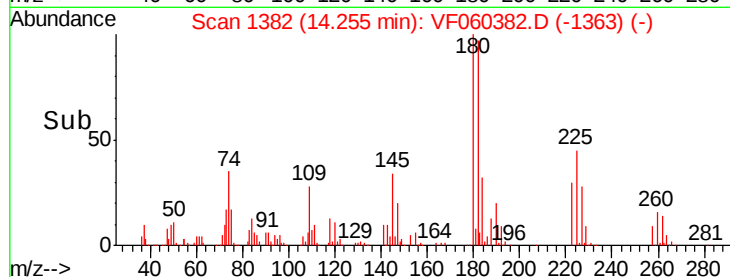
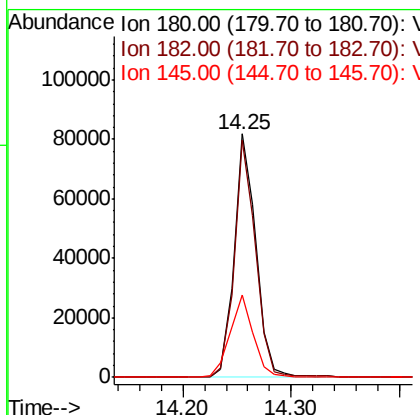
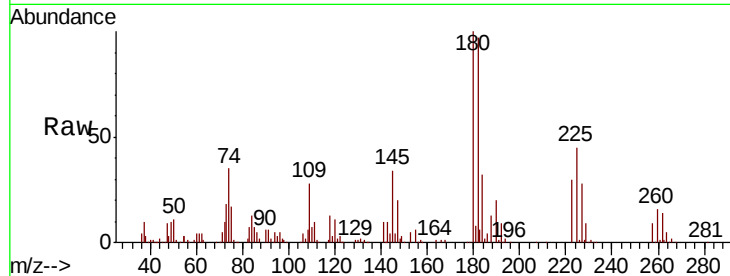
#93  
 1,2,4-Trichlorobenzene  
 Concen: 23.938 ug/l  
 RT: 14.25 min Scan# 1382  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0928SBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 115090 |       |       |
| 182     | 97.5  | 50.3   | 151.0 |       |
| 145     | 34.1  | 18.9   | 56.9  |       |

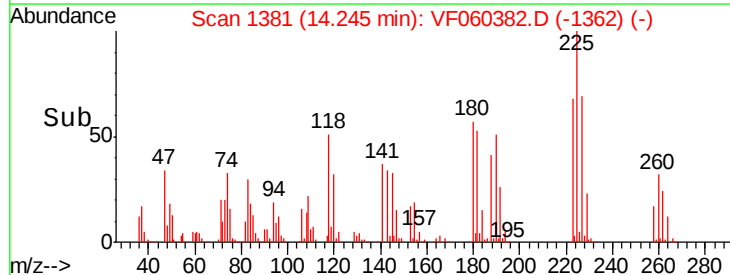
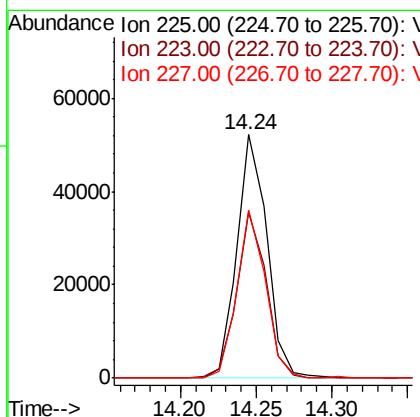
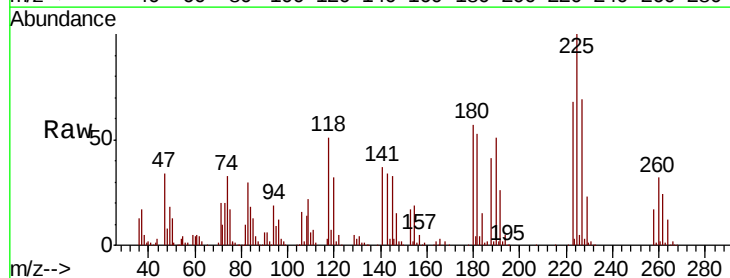
Manual Integrations  
 APPROVED

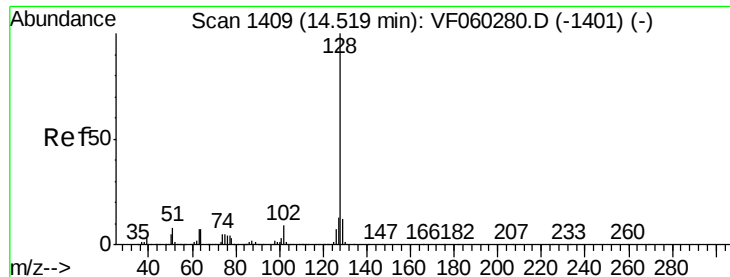
apatel  
 10/1/2018 3:03:56 PM



#94  
 Hexachlorobutadiene  
 Concen: 22.102 ug/l  
 RT: 14.24 min Scan# 1381  
 Delta R.T. -0.01 min  
 Lab File: VF060382.D  
 Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 71833 |       |       |
| 223     | 68.0  | 31.2  | 93.6  |       |
| 227     | 69.1  | 32.2  | 96.6  |       |





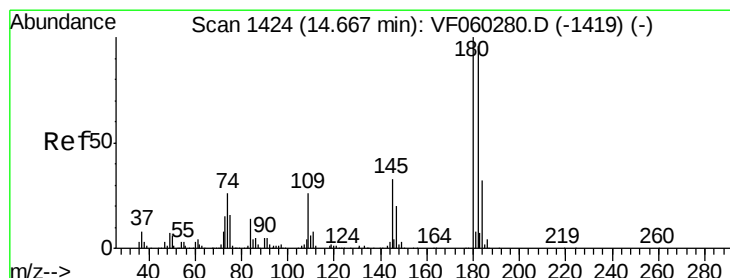
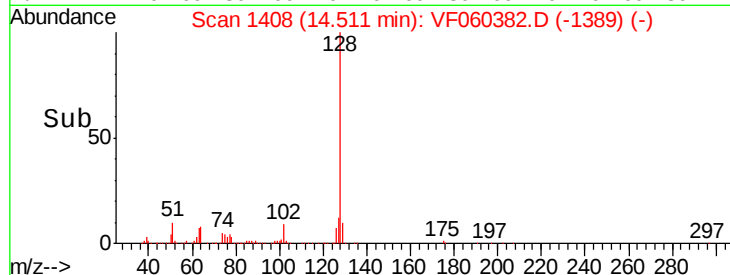
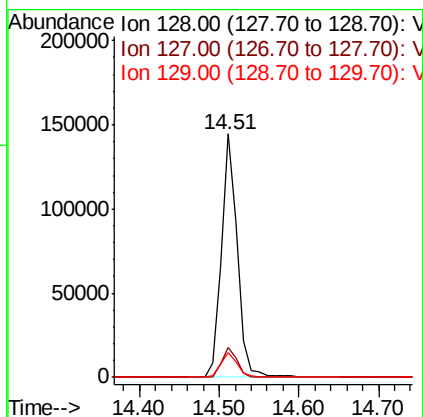
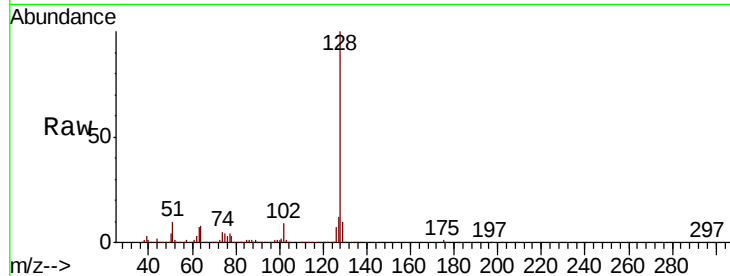
#95  
Naphthalene  
Concen: 24.274 ug/l  
RT: 14.51 min Scan# 1408  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0928SBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 204617 |       |       |
| 127     | 12.1  | 10.1   | 15.1  |       |
| 129     | 10.2  | 9.8    | 14.8  |       |

Manual Integrations  
APPROVED

apatel  
10/1/2018 3:03:56 PM



#96  
1,2,3-Trichlorobenzene  
Concen: 24.086 ug/l  
RT: 14.66 min Scan# 1423  
Delta R.T. -0.01 min  
Lab File: VF060382.D  
Acq: 28 Sep 2018 22:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 107005 |       |       |
| 182     | 91.3  | 47.8   | 143.4 |       |
| 145     | 33.8  | 16.4   | 49.1  |       |

