

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\  
 Data File : VW013182.D  
 Acq On : 20 Sep 2019 14:53  
 Operator : SY/VA  
 Sample : VSTDIC150  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 20 15:19:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 20 14:51:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 362373   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 518740   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 453748   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 223634   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 424604   | 130.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 260.44% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 421193   | 150.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 300.34% |          |
| 50) Toluene-d8              | 10.32 | 98   | 1743654  | 157.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 315.32% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 594727   | 150.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 300.34% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 304613   | 185.708 | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50   | 368548   | 176.309 | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.36 | 62   | 468698   | 171.551 | ug/l   | 98     |
| 5) Bromomethane               | 2.76 | 94   | 306566   | 180.860 | ug/l   | 93     |
| 6) Chloroethane               | 2.91 | 64   | 286775   | 172.039 | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 309541   | 168.871 | ug/l   | 97     |
| 8) Diethyl Ether              | 3.68 | 74   | 247880   | 169.210 | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 454964   | 160.608 | ug/l   | 100    |
| 10) Methyl Iodide             | 4.27 | 142  | 721611   | 194.829 | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.16 | 59   | 157534   | 620.743 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 478238   | 181.117 | ug/l   | 97     |
| 13) Acrolein                  | 3.89 | 56   | 128357   | 558.397 | ug/l   | 98     |
| 14) Allyl chloride            | 4.66 | 41   | 789515   | 163.058 | ug/l   | 99     |
| 15) Acrylonitrile             | 5.36 | 53   | 547038   | 758.481 | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43   | 487610   | 635.016 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.38 | 76   | 1438428  | 247.430 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.66 | 43   | 269352   | 142.042 | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 723924   | 146.185 | ug/l   | 99     |
| 20) Methylene Chloride        | 4.92 | 84   | 484233   | 148.854 | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 514660   | 181.424 | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.31 | 45   | 1470667  | 148.494 | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.25 | 43   | 4528086  | 768.904 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 884047   | 153.244 | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 728640   | 699.195 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 518534   | 128.770 | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 556592   | 167.645 | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 367394   | 152.025 | ug/l # | 100    |
| 29) Tetrahydrofuran           | 7.52 | 42   | 462273   | 768.171 | ug/l   | 99     |
| 30) Chloroform                | 7.67 | 83   | 848474   | 146.461 | ug/l   | 98     |
| 31) Cyclohexane               | 7.95 | 56   | 865114   | 168.876 | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 696770   | 145.813 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 716795   | 167.588 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.24 | 43   | 310310   | 142.604 | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 661129   | 154.211 | ug/l   | 98     |

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 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 20 15:19:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 20 14:51:18 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 937437   | 192.267  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 2014718  | 168.725  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 201561   | 142.156  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 538293   | 139.844  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 612742   | 147.120  | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 566498   | 172.037  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 496521   | 159.415  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 240497   | 160.779  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 636710   | 154.381  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.43  | 41   | 310963   | 158.735  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 72872    | 3041.155 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 1533608  | 716.219  | ug/l   | 99       |
| 52) Toluene                    | 10.38 | 92   | 1304717  | 171.786  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 675162   | 161.895  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 818199   | 169.927  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 362644   | 159.680  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 509675   | 167.722  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 638161   | 158.832  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 1150289  | 715.527  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 1085921  | 732.175  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 437363   | 161.238  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 348753   | 167.807  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 485303   | 172.104  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 1358539  | 163.881  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 478627   | 153.767  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 2482158  | 162.747  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 1896284  | 337.396  | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 881736   | 167.814  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 1529950  | 164.315  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 261977   | 161.092  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 2425667  | 161.071  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 570083   | 150.996  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 401840   | 154.370  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 519399   | 266.226  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 566219   | 161.387  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.80 | 91   | 2822734  | 159.448  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 1573394  | 155.136  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 2011549  | 157.681  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 144729   | 167.866  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 1654163  | 155.405  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 1757751  | 154.764  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 1983487  | 157.437  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 2412563  | 155.427  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 2258108  | 158.212  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 1077676  | 156.436  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 1061959  | 157.245  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 2099115  | 156.780  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 396859   | 156.395  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 952708   | 157.671  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 64923    | 138.659  | ug/l   | 97       |

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Operator : SY/VA  
Sample : VSTDICC150  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

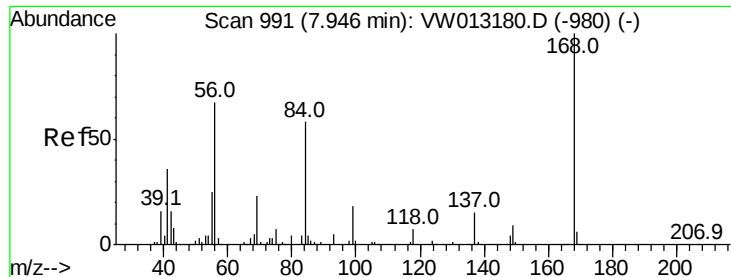
Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 20 15:19:47 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 20 14:51:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 753495   | 174.508 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 464244   | 152.648 | ug/l  | 99       |
| 95) Naphthalene            | 15.36 | 128  | 1299655  | 181.561 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 644426   | 169.396 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

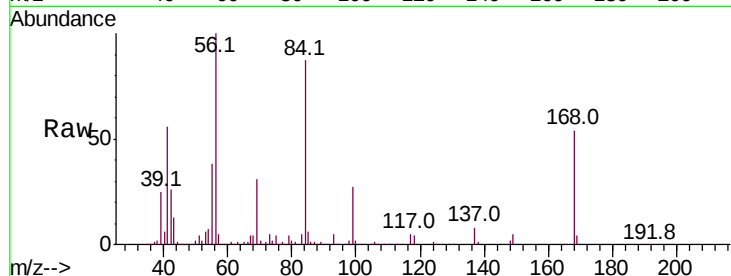
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 362373

Ion Ratio Lower Upper

168 100

99 49.5 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

200000

150000

100000

50000

0

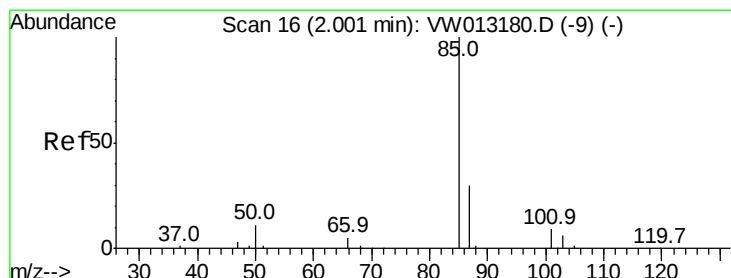
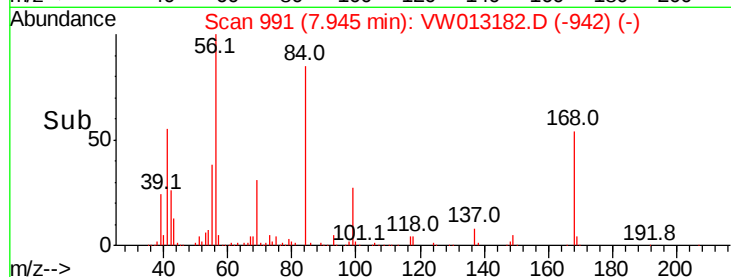
7.80

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 185.708 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW013182.D

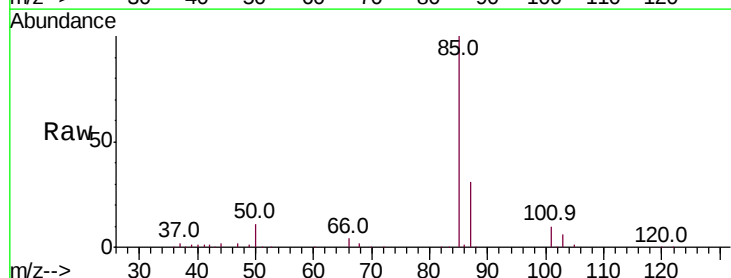
Acq: 20 Sep 2019 14:53

Tgt Ion: 85 Resp: 304613

Ion Ratio Lower Upper

85 100

87 31.1 15.1 45.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

120000

100000

80000

60000

40000

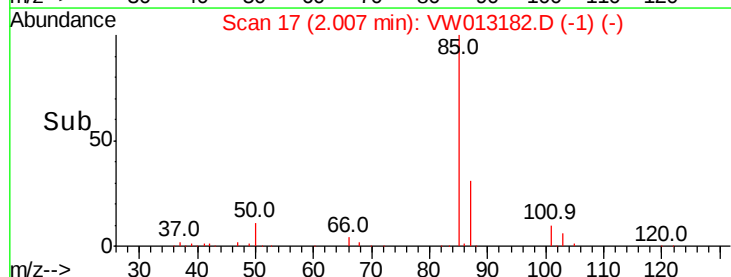
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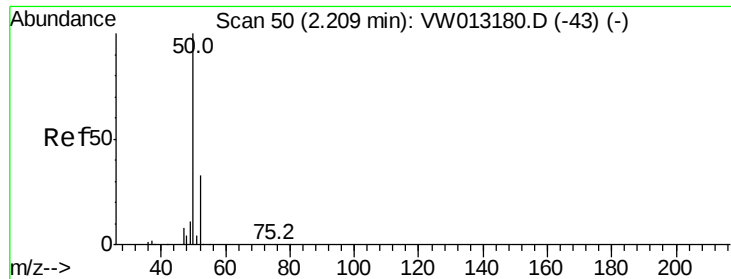
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2.00

2.20

Time-->





#3

Chloromethane

Concen: 176.309 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

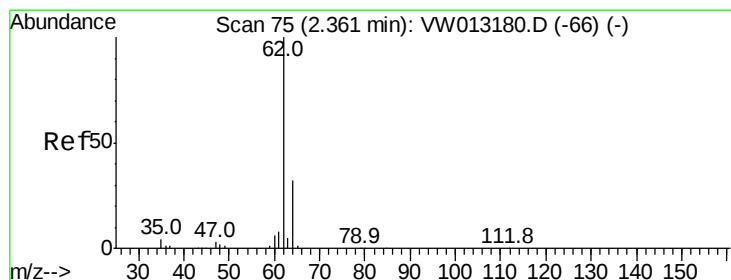
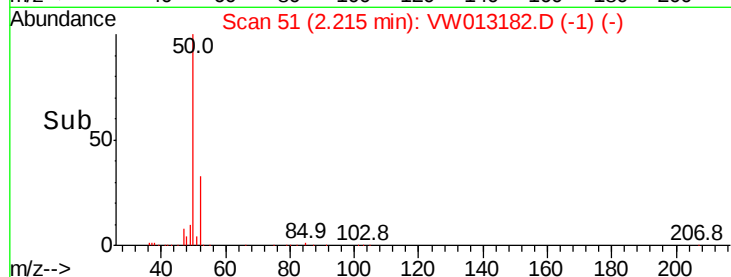
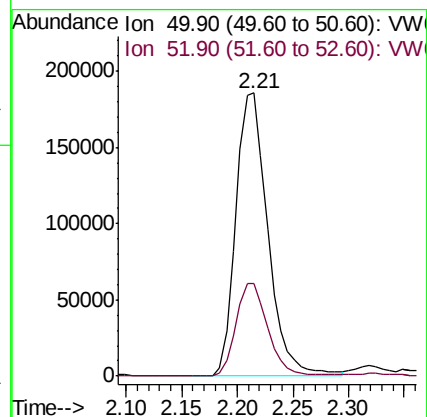
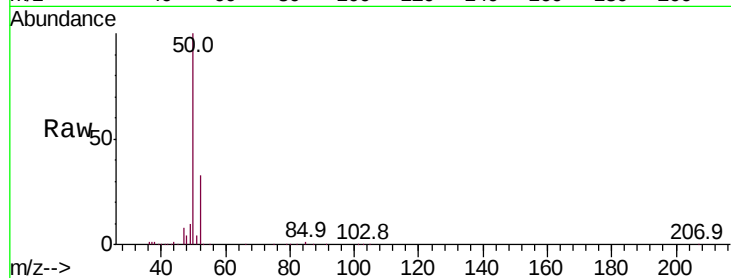
ClientSampleId :

Tot Ion: 50 Resp: 368548

Ion Ratio Lower Upper

50 100

52 32.7 26.1 39.1



#4

Vinyl Chloride

Concen: 171.551 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013182.D

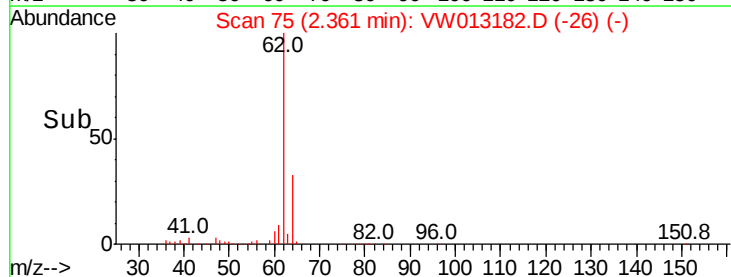
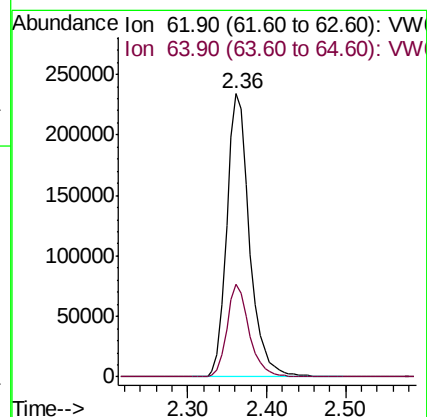
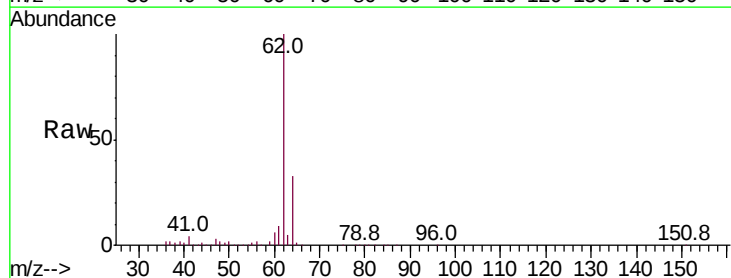
Acq: 20 Sep 2019 14:53

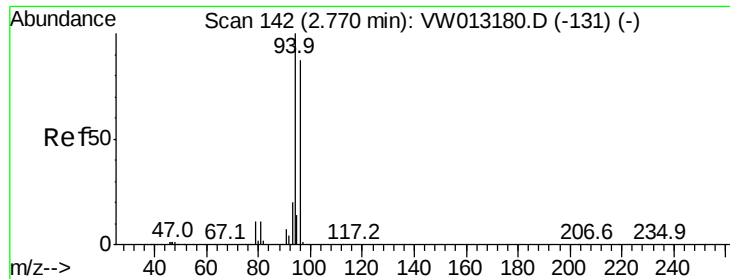
Tgt Ion: 62 Resp: 468698

Ion Ratio Lower Upper

62 100

64 32.7 25.3 37.9





#5

Bromomethane

Concen: 180.860 ug/l

RT: 2.76 min Scan# 140

Delta R.T. -0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

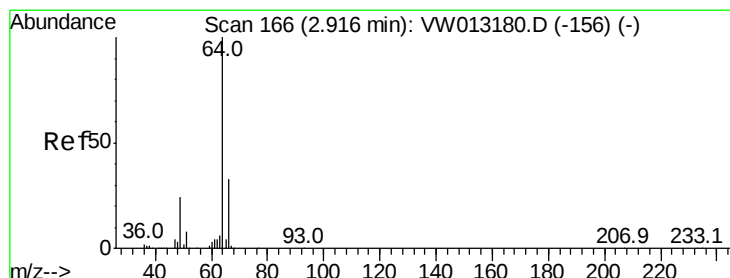
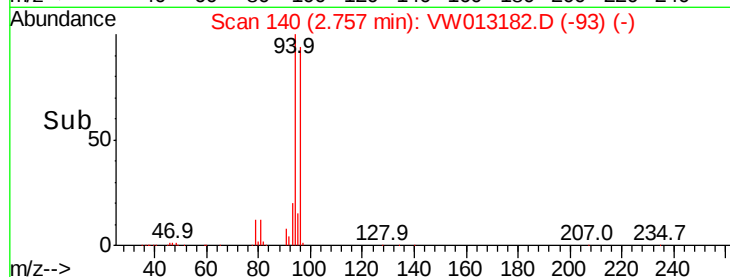
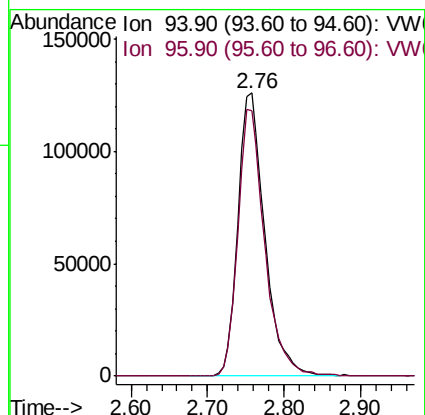
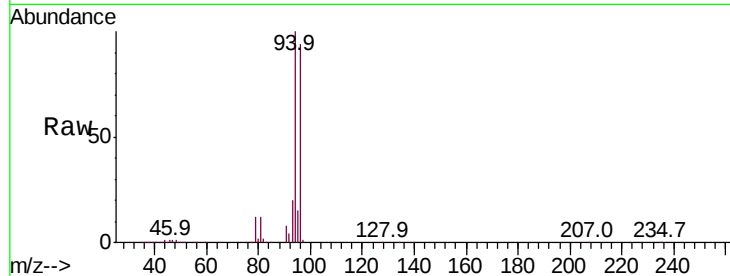
ClientSampleId :

Tot Ion: 94 Resp: 306566

Ion Ratio Lower Upper

94 100

96 93.9 69.7 104.5



#6

Chloroethane

Concen: 172.039 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW013182.D

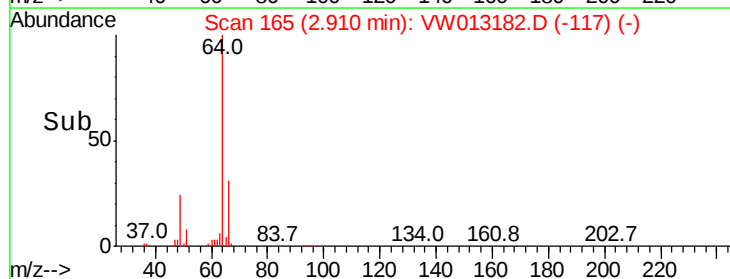
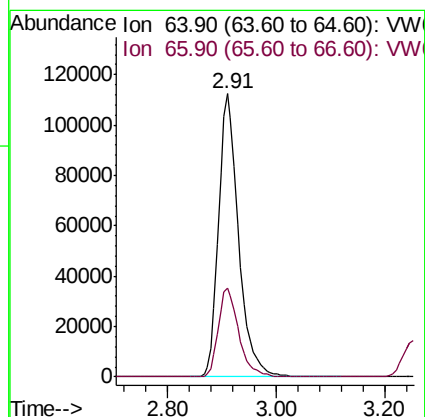
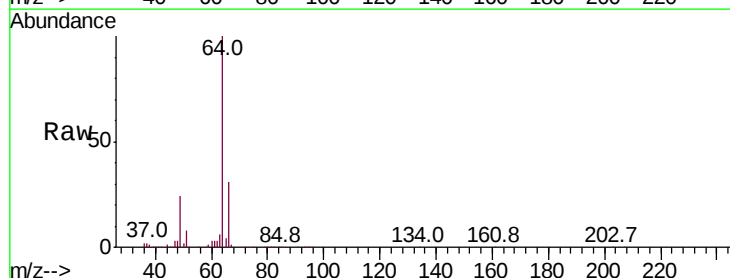
Acq: 20 Sep 2019 14:53

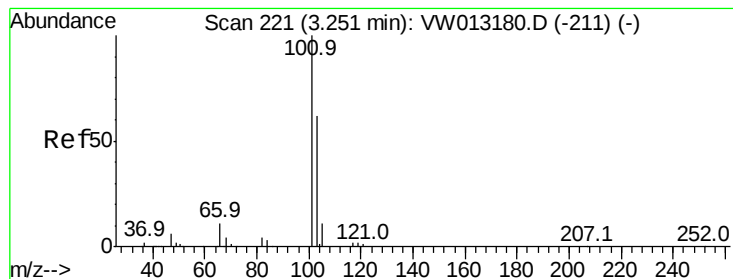
Tgt Ion: 64 Resp: 286775

Ion Ratio Lower Upper

64 100

66 31.5 26.6 39.8



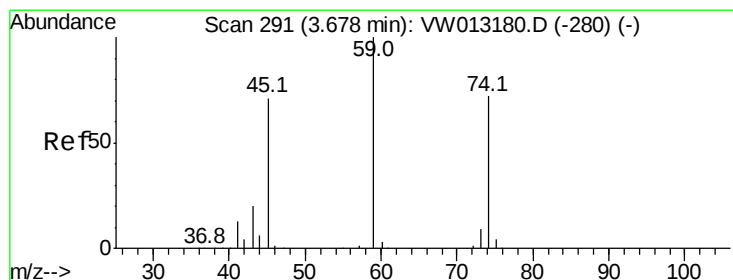
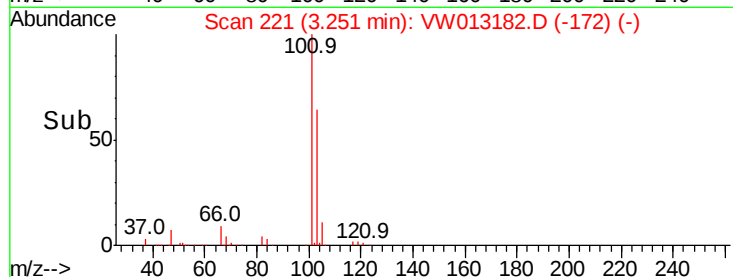
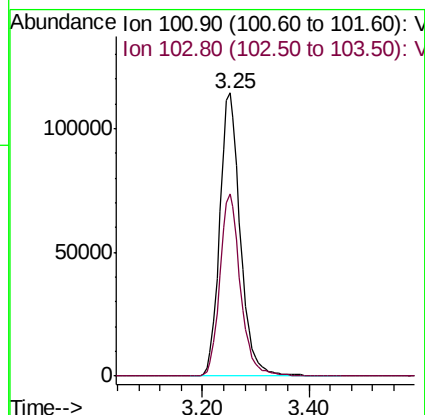
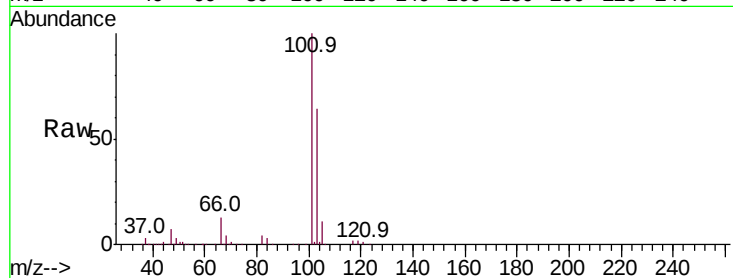


#7

Trichlorofluoromethane  
Concen: 168.871 ug/l  
RT: 3.25 min Scan# 221  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Instrument :  
MSVOA\_W  
ClientSampled :

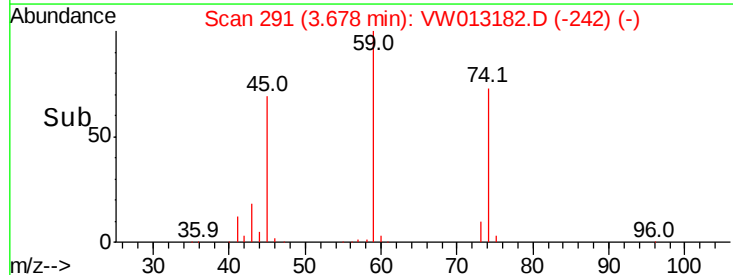
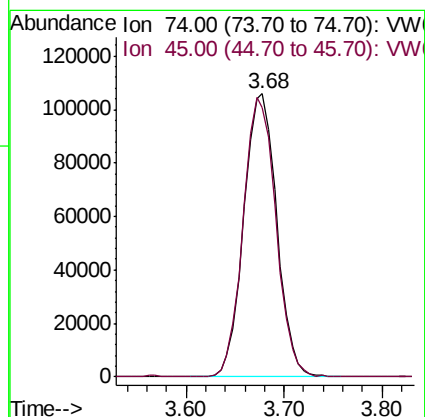
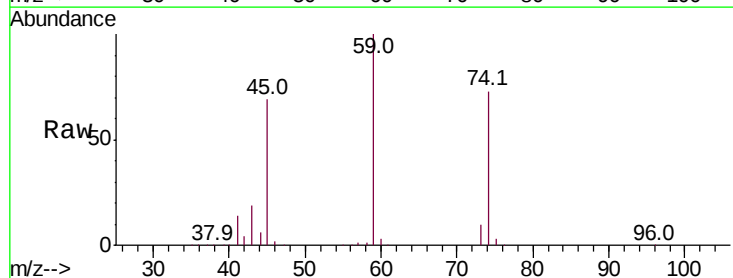
Tot Ion:101 Resp: 309541  
Ion Ratio Lower Upper  
101 100  
103 64.2 49.7 74.5

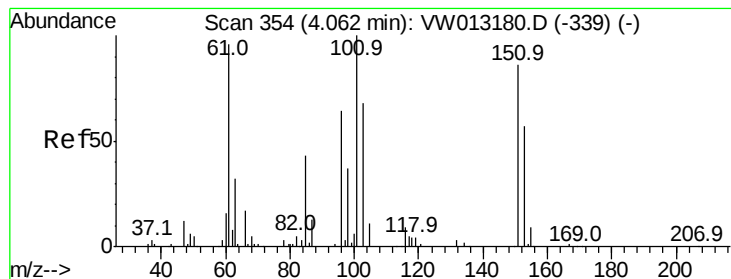


#8

Diethyl Ether  
Concen: 169.210 ug/l  
RT: 3.68 min Scan# 291  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 74 Resp: 247880  
Ion Ratio Lower Upper  
74 100  
45 97.6 49.5 148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 160.608 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

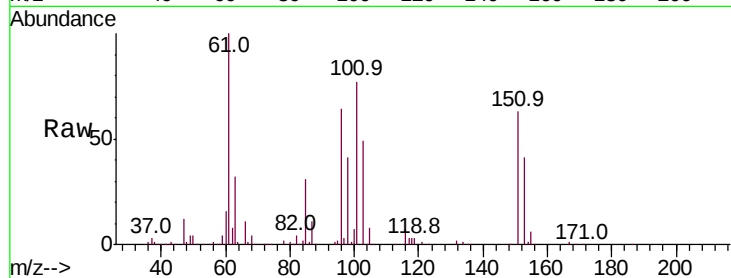
Tot Ion:101 Resp: 454964

Ion Ratio Lower Upper

101 100

85 41.4 33.4 50.0

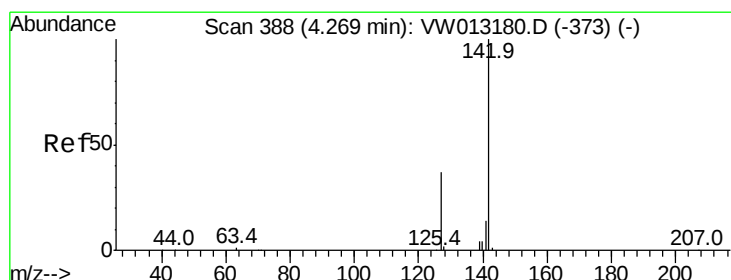
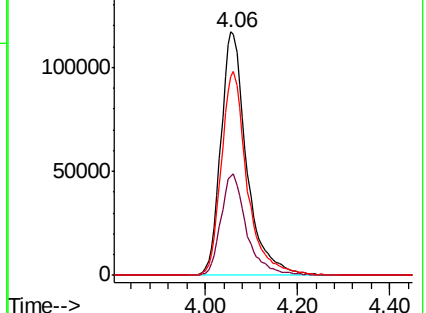
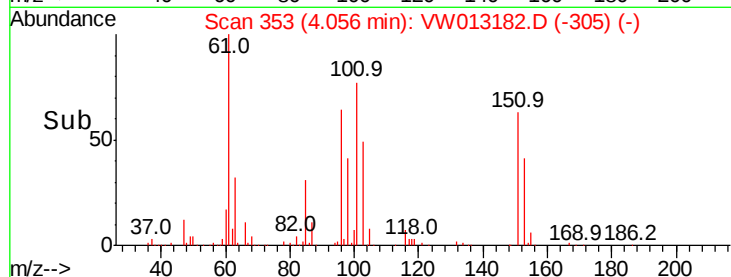
151 83.4 66.9 100.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 194.829 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

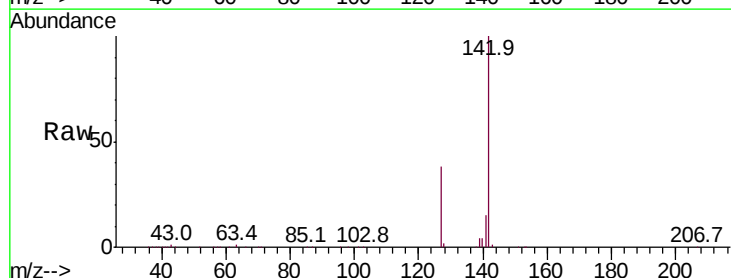
Tgt Ion:142 Resp: 721611

Ion Ratio Lower Upper

142 100

127 38.4 30.9 46.3

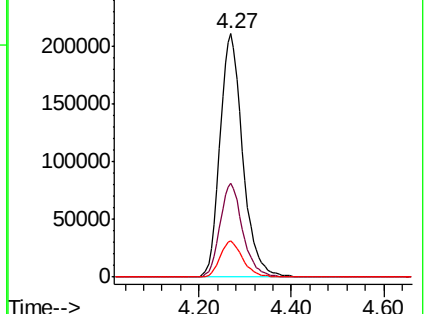
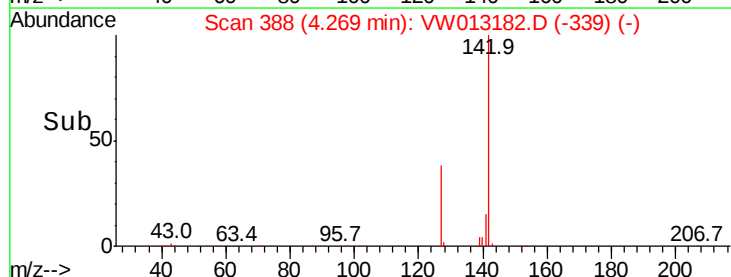
141 14.8 11.7 17.5

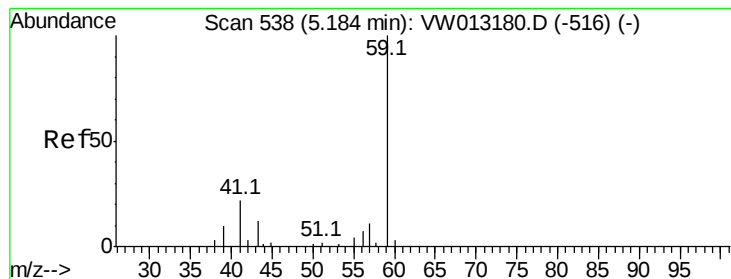


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 620.743 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.02 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

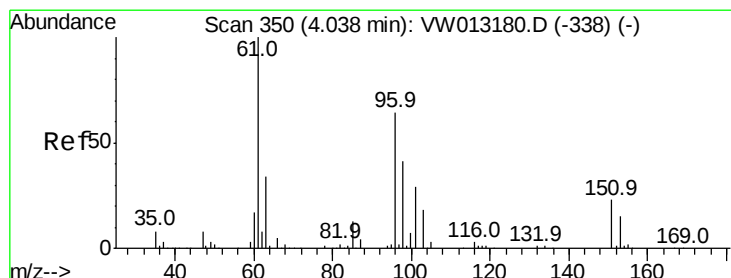
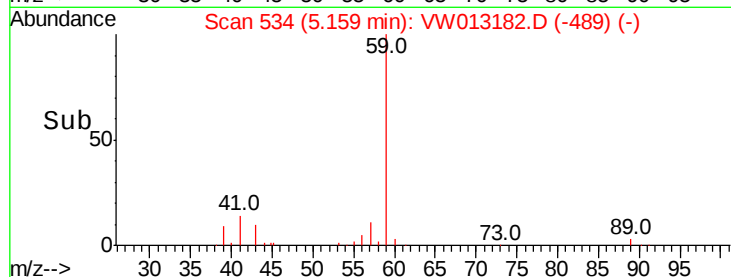
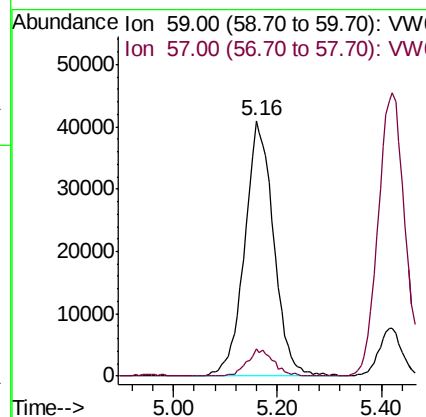
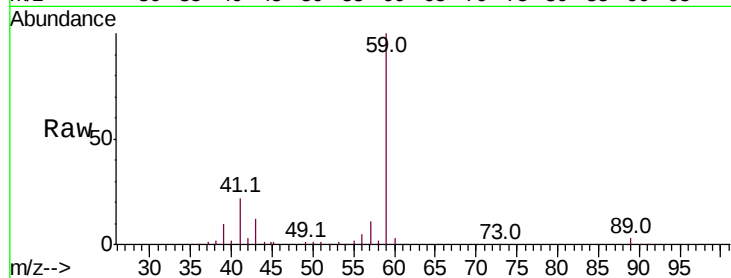
ClientSampled :

Tot Ion: 59 Resp: 157534

Ion Ratio Lower Upper

59 100

57 9.5 8.2 12.2



#12

1,1-Dichloroethene

Concen: 181.117 ug/l

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

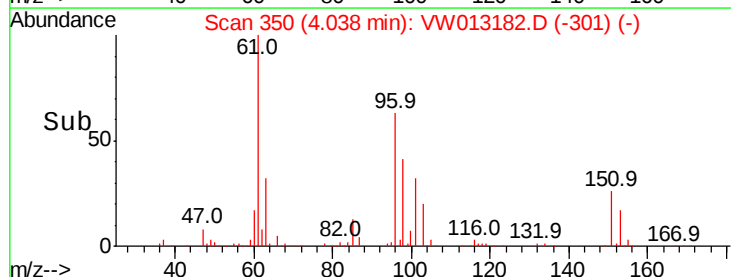
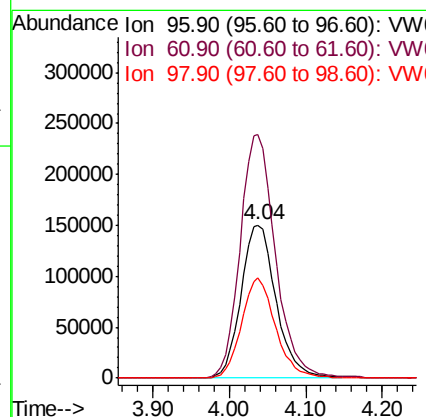
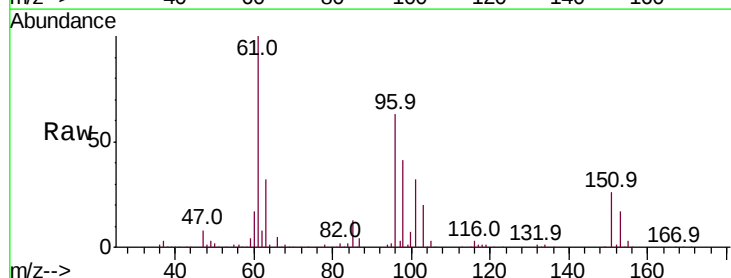
Tgt Ion: 96 Resp: 478238

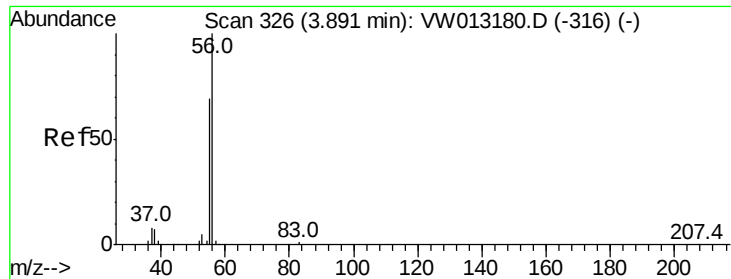
Ion Ratio Lower Upper

96 100

61 159.4 125.1 187.7

98 65.8 50.8 76.2





#13

Acrolein

Concen: 558.397 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

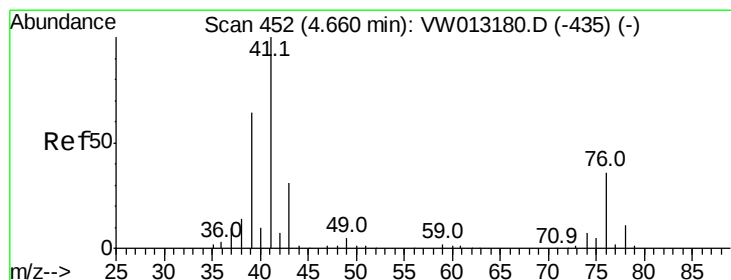
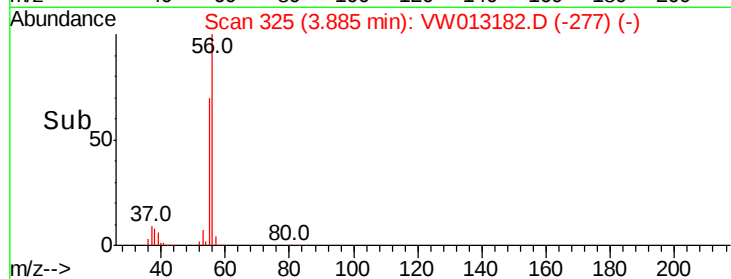
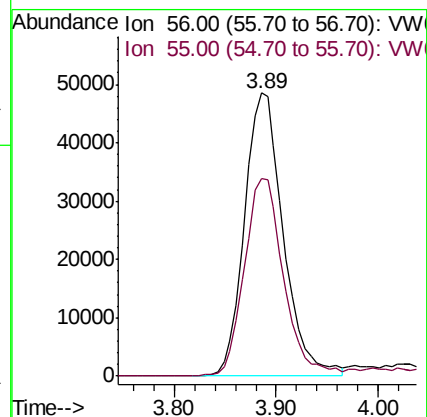
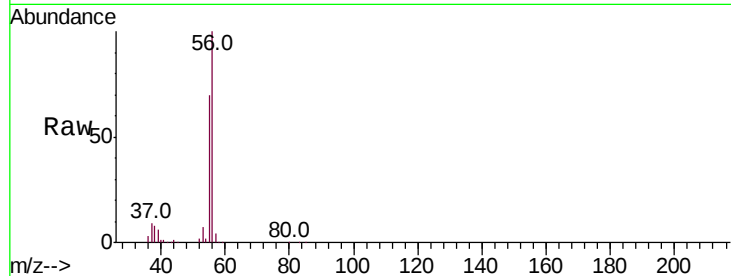
ClientSampled :

Tot Ion: 56 Resp: 128357

Ion Ratio Lower Upper

56 100

55 70.8 55.4 83.0



#14

Allyl chloride

Concen: 163.058 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

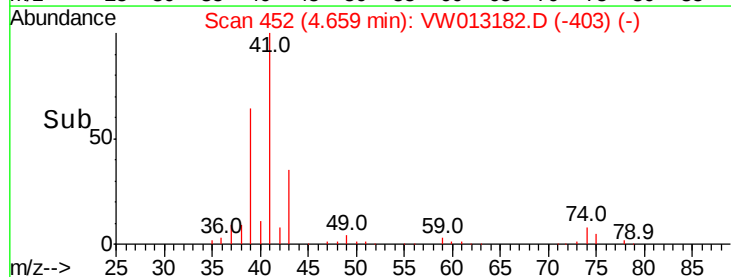
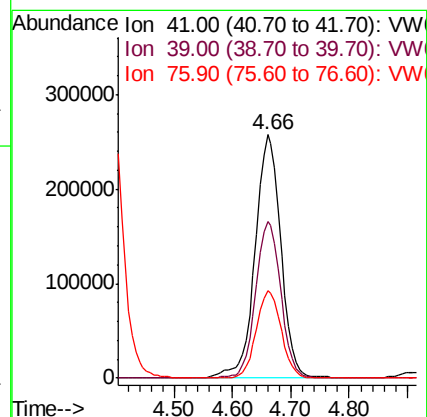
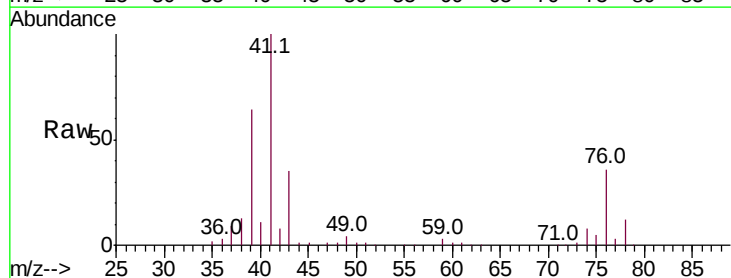
Tgt Ion: 41 Resp: 789515

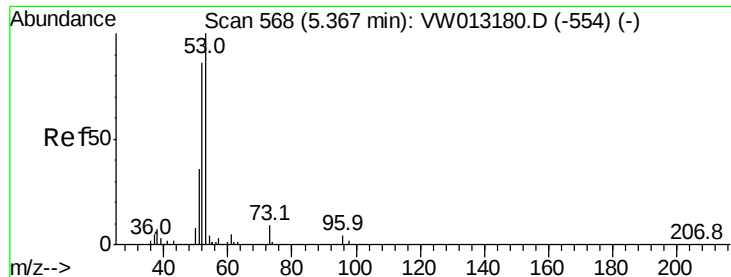
Ion Ratio Lower Upper

41 100

39 62.9 51.0 76.4

76 34.7 28.4 42.6





#15

Acrylonitrile

Concen: 758.481 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

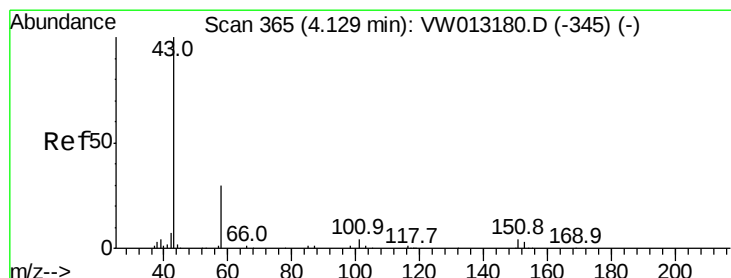
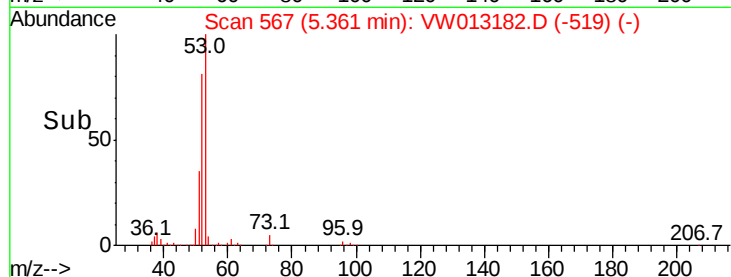
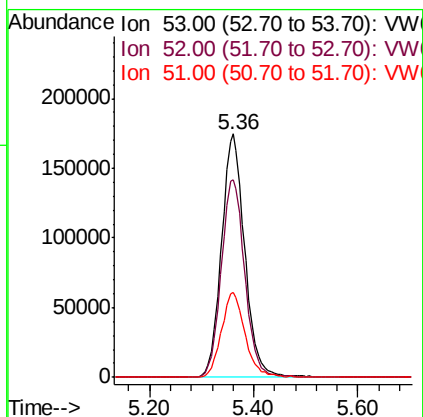
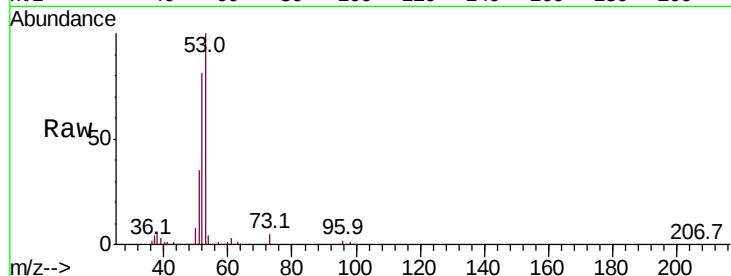
Tot Ion: 53 Resp: 547038

Ion Ratio Lower Upper

53 100

52 82.2 65.3 97.9

51 35.8 29.0 43.4



#16

Acetone

Concen: 635.016 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW013182.D

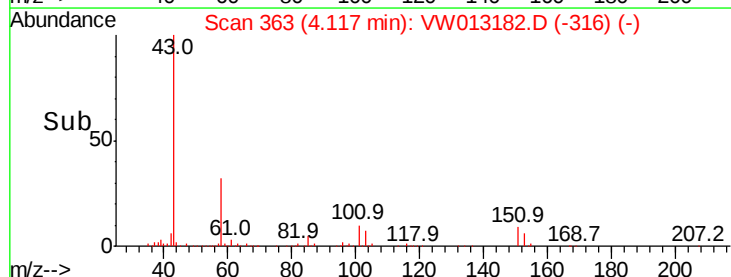
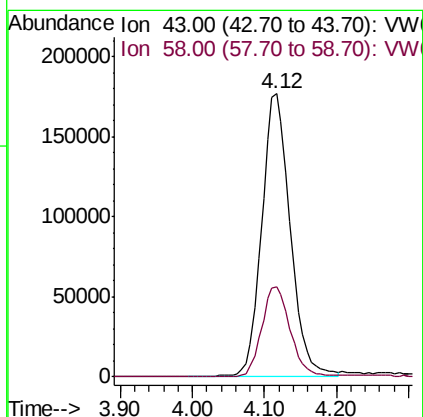
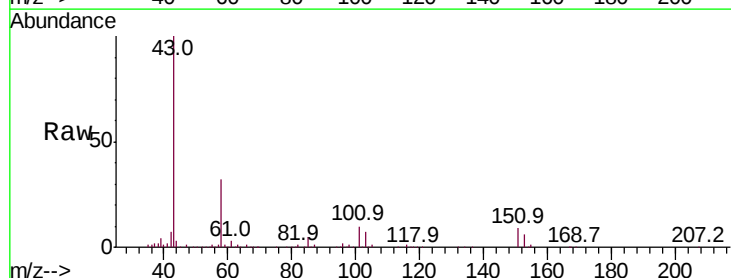
Acq: 20 Sep 2019 14:53

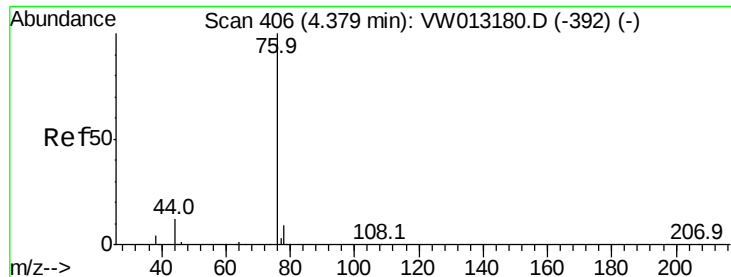
Tgt Ion: 43 Resp: 487610

Ion Ratio Lower Upper

43 100

58 31.7 24.1 36.1

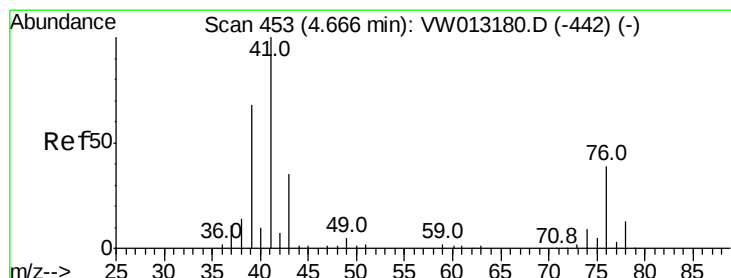
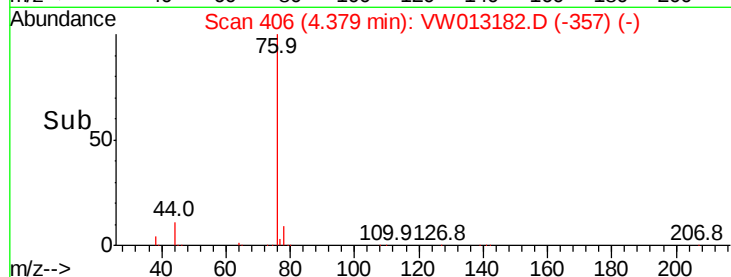
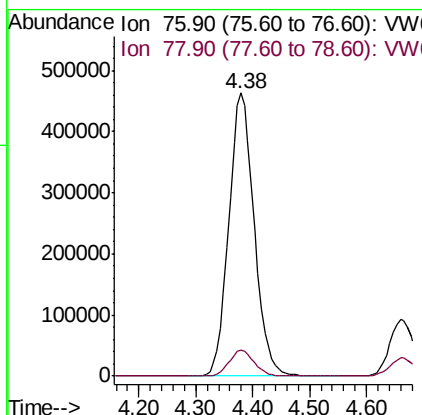
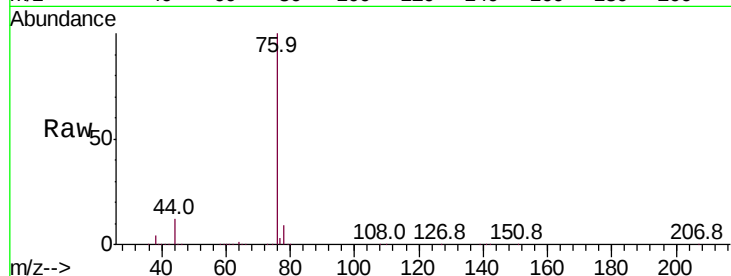




#17  
Carbon Disulfide  
Concen: 247.430 ug/l  
RT: 4.38 min Scan# 406  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

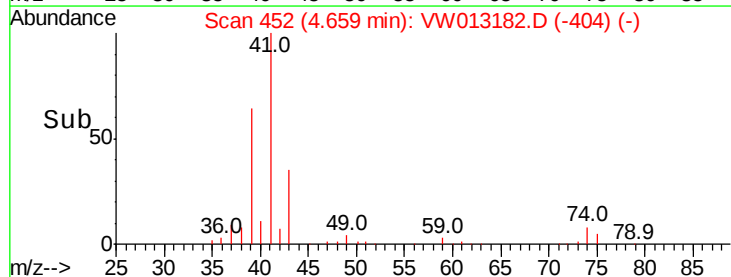
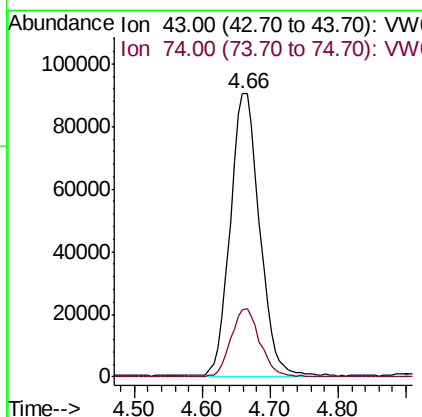
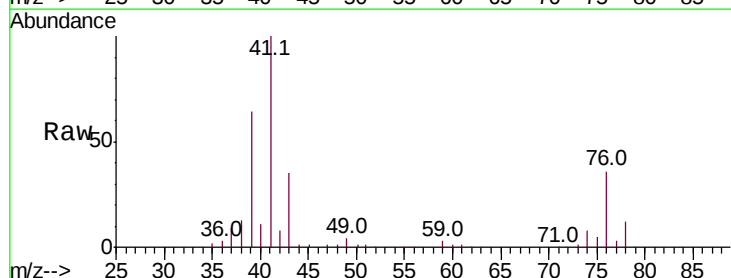
Instrument :  
MSVOA\_W  
ClientSampleId :

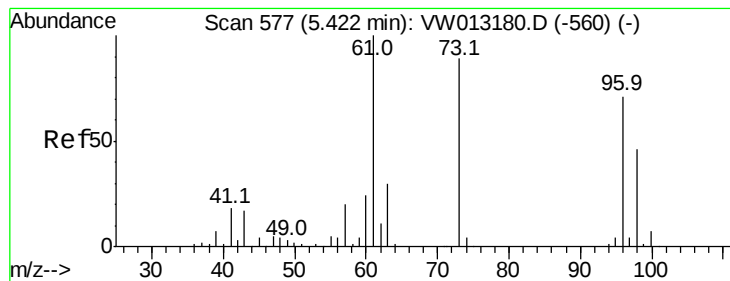
Tot Ion: 76 Resp: 1438428  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.0 10.4



#18  
Methyl Acetate  
Concen: 142.042 ug/l  
RT: 4.66 min Scan# 452  
Delta R.T. -0.01 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 43 Resp: 269352  
Ion Ratio Lower Upper  
43 100  
74 24.0 19.3 28.9



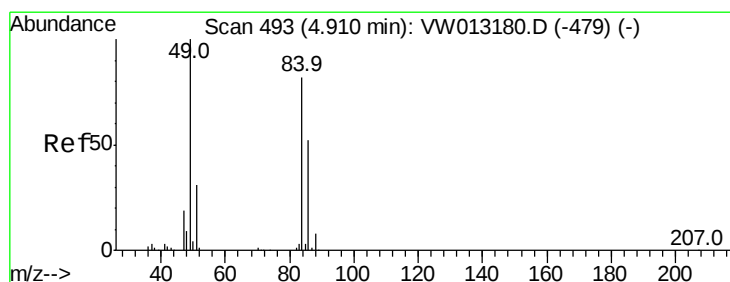
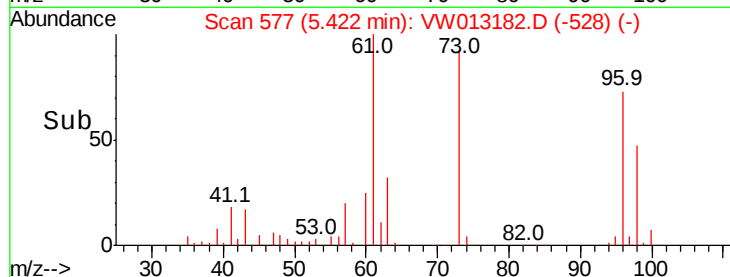
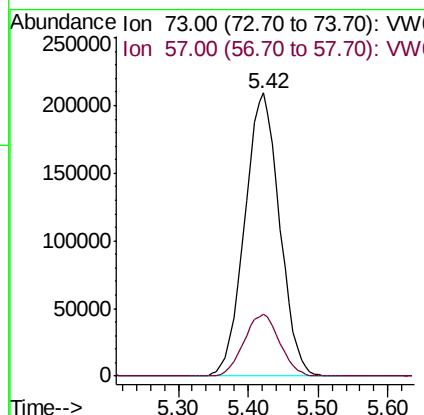
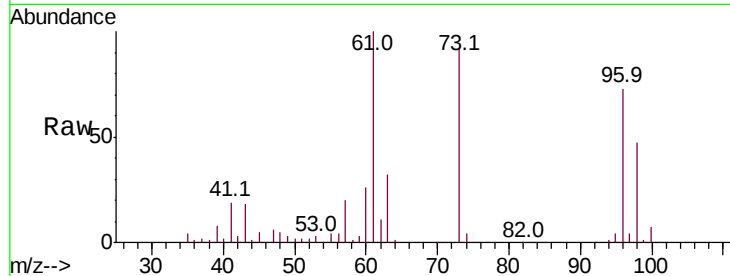


#19

Methyl tert-butyl Ether  
 Concen: 146.185 ug/l  
 RT: 5.42 min Scan# 577  
 Delta R.T. -0.00 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :

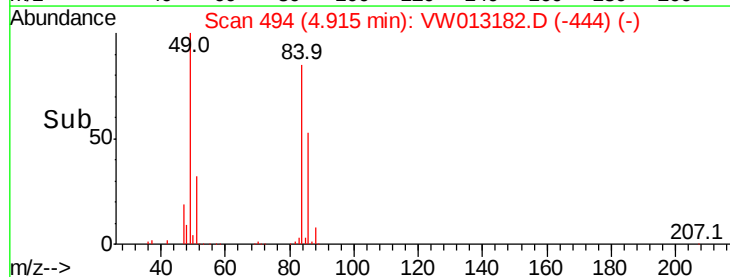
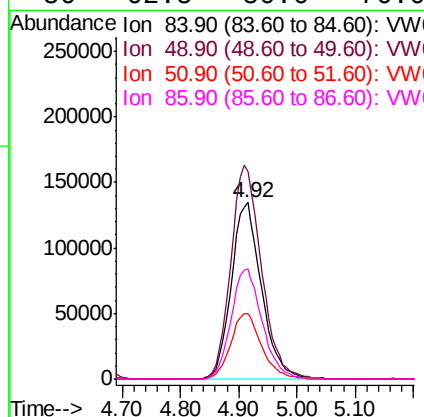
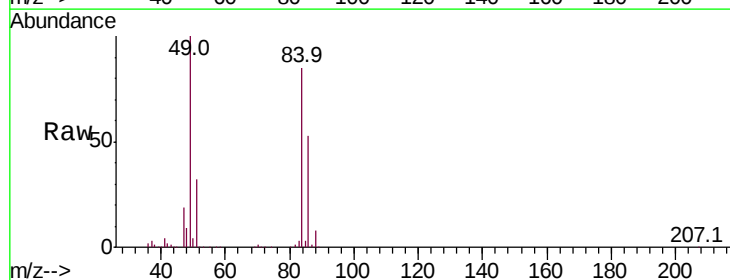
Tot Ion: 73 Resp: 723924  
 Ion Ratio Lower Upper  
 73 100  
 57 21.7 17.6 26.4

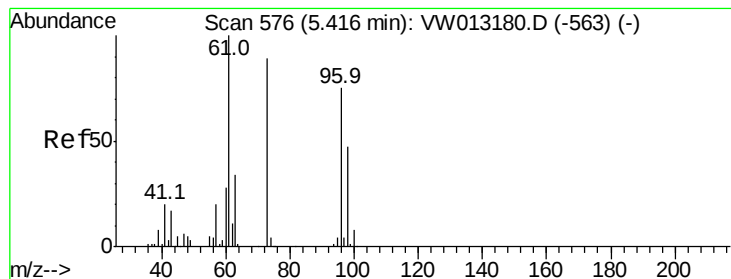


#20

Methylene Chloride  
 Concen: 148.854 ug/l  
 RT: 4.92 min Scan# 494  
 Delta R.T. 0.01 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

Tgt Ion: 84 Resp: 484233  
 Ion Ratio Lower Upper  
 84 100  
 49 117.7 97.6 146.4  
 51 37.2 30.2 45.2  
 86 62.5 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 181.424 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :  
MSVOA\_W  
ClientSampled :

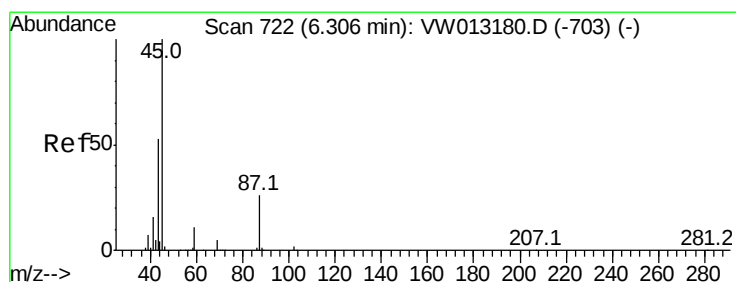
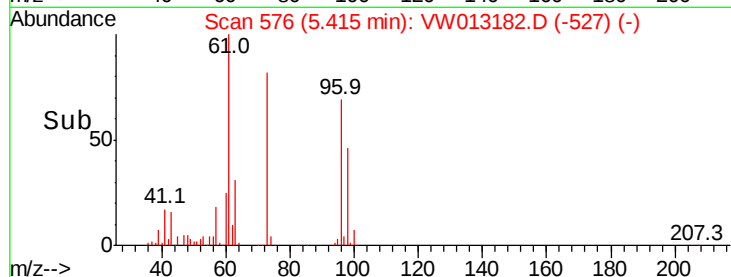
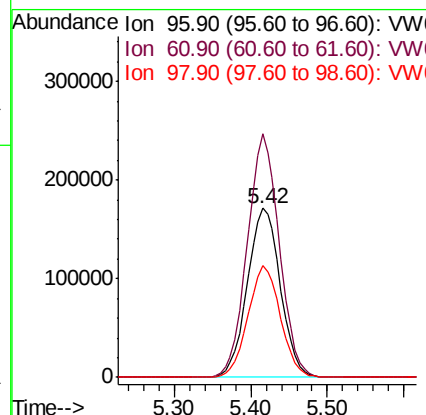
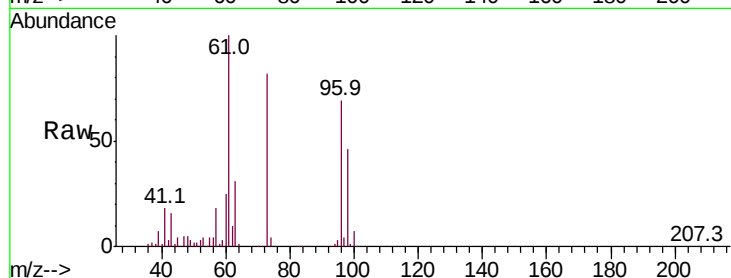
Tot Ion: 96 Resp: 514660

Ion Ratio Lower Upper

96 100

61 144.1 106.6 159.8

98 66.0 49.8 74.8



#22

Diisopropyl ether

Concen: 148.494 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Tgt Ion: 45 Resp: 1470667

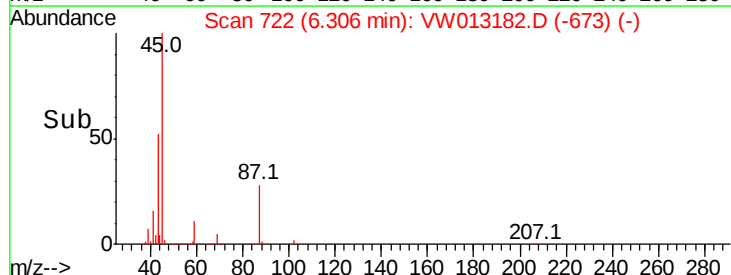
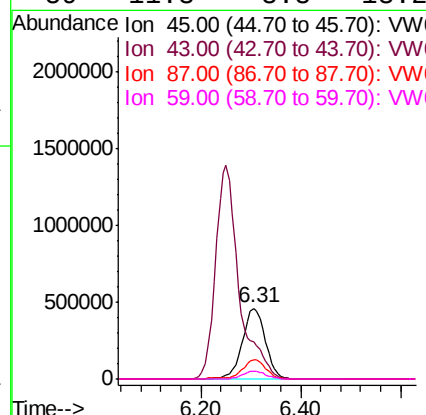
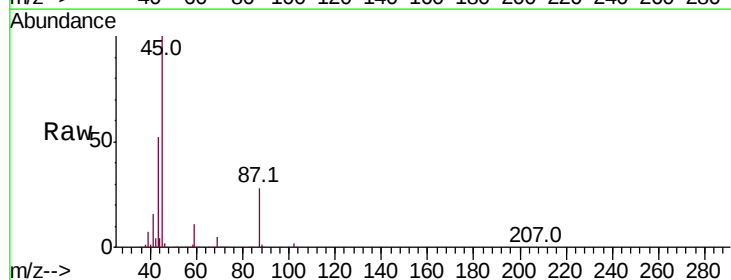
Ion Ratio Lower Upper

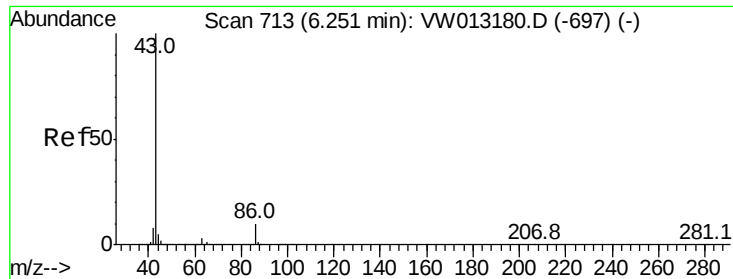
45 100

43 51.9 42.4 63.6

87 27.5 20.4 30.6

59 11.3 8.8 13.2





#23

Vinyl Acetate

Concen: 768.904 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

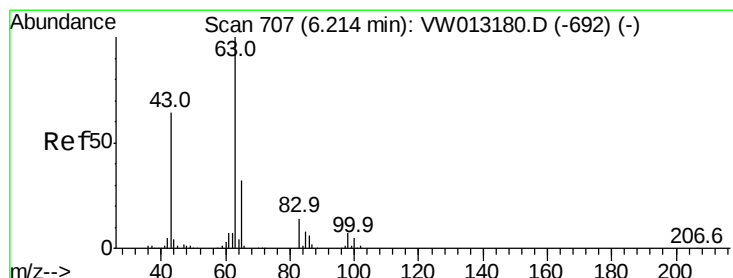
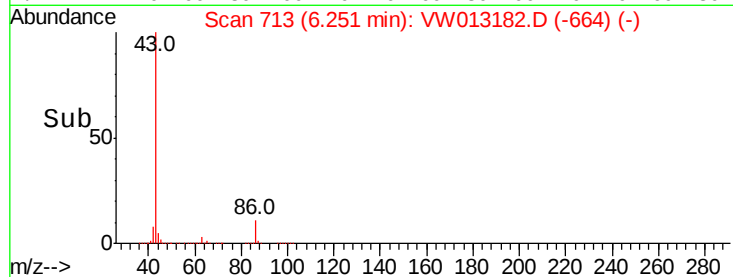
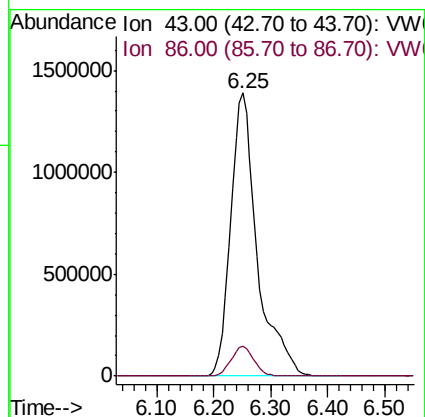
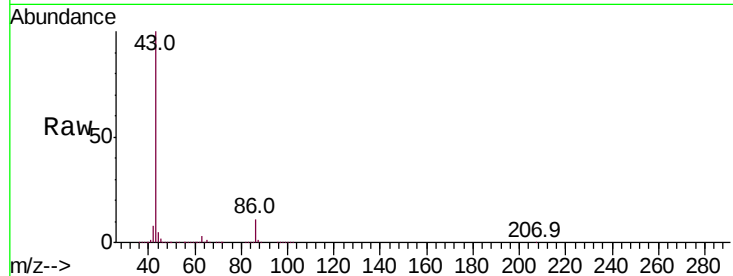
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 4528086

Ion Ratio Lower Upper

43 100

86 10.7 8.3 12.5



#24

1,1-Dichloroethane

Concen: 153.244 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

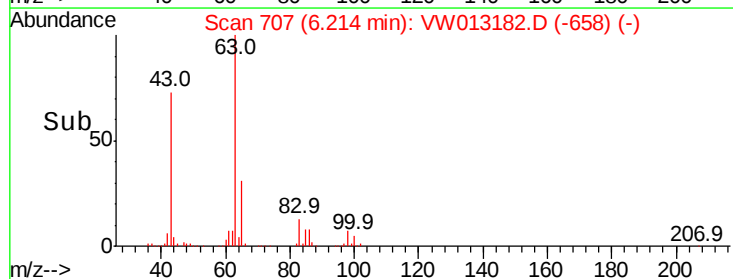
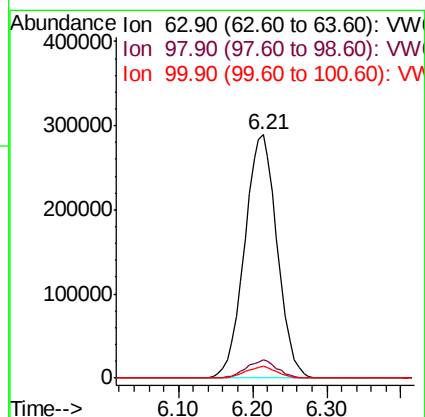
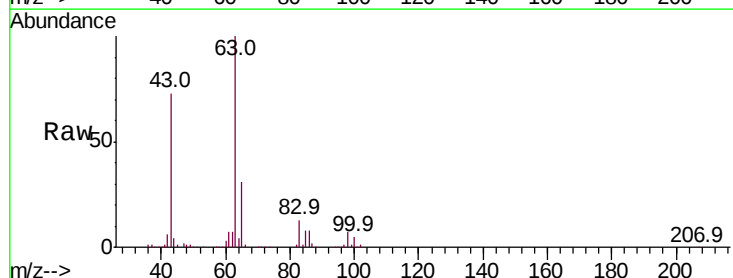
Tgt Ion: 63 Resp: 884047

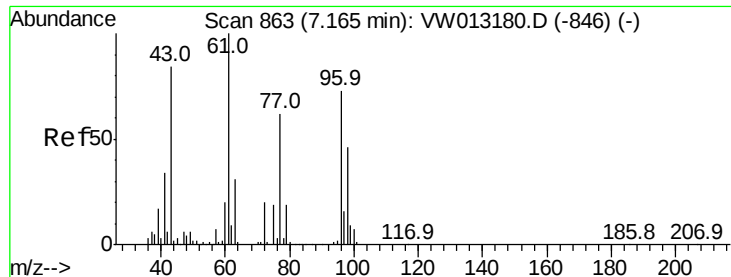
Ion Ratio Lower Upper

63 100

98 7.3 3.5 10.5

100 4.7 2.4 7.1

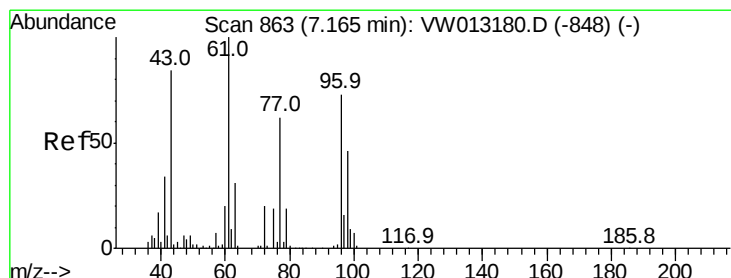
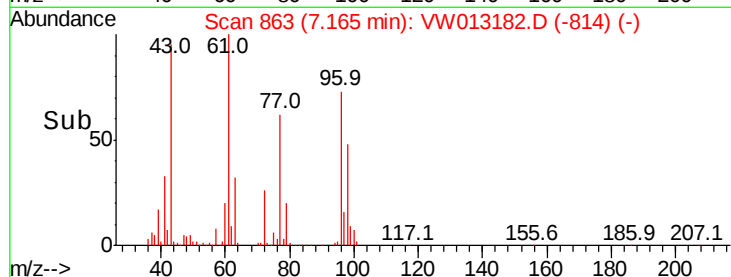
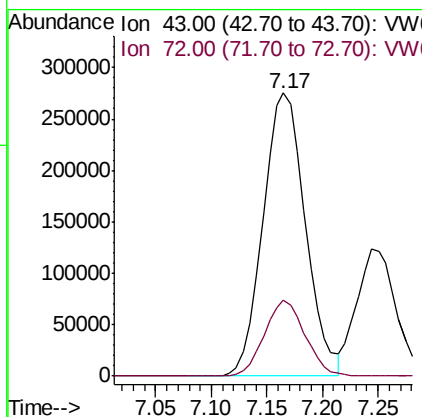
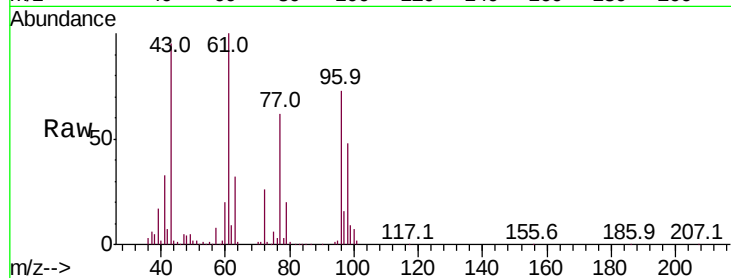




#25  
 2-Butanone  
 Concen: 699.195 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.00 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

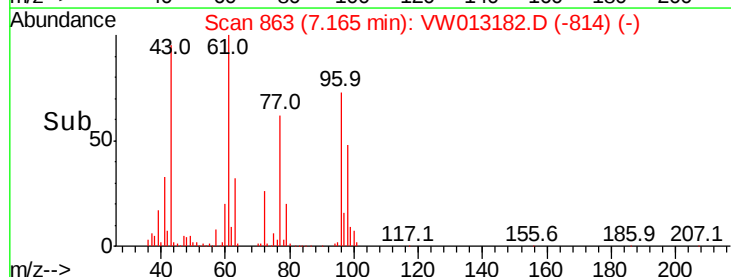
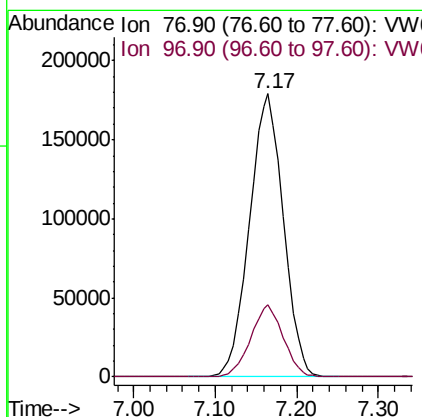
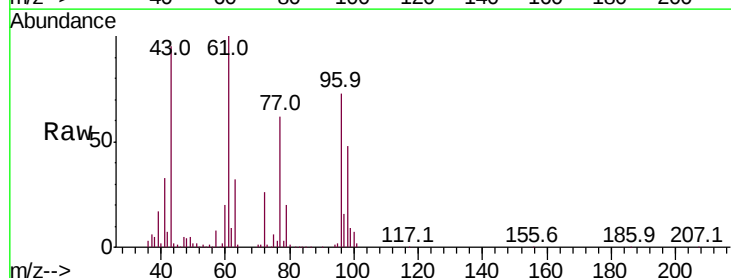
Instrument :  
 MSVOA\_W  
 ClientSampled :

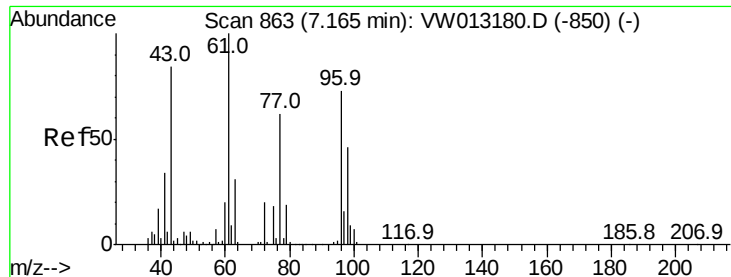
Tot Ion: 43 Resp: 728640  
 Ion Ratio Lower Upper  
 43 100  
 72 26.9 19.4 29.0



#26  
 2,2-Dichloropropane  
 Concen: 128.770 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.00 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

Tgt Ion: 77 Resp: 518534  
 Ion Ratio Lower Upper  
 77 100  
 97 24.5 11.8 35.4



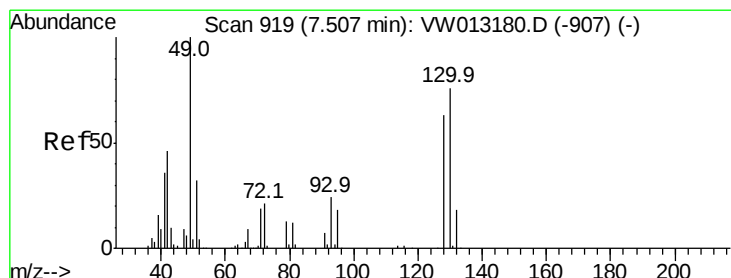
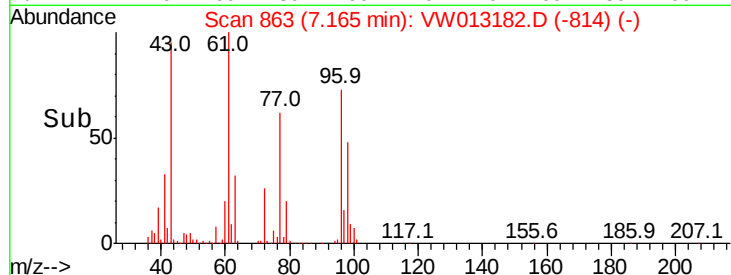
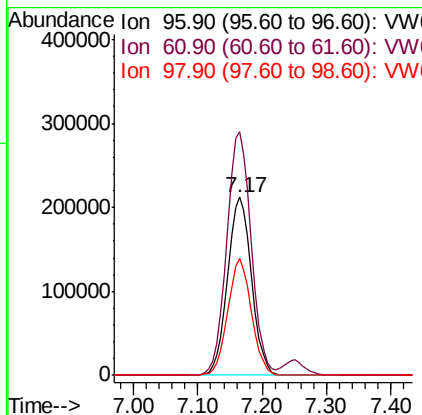
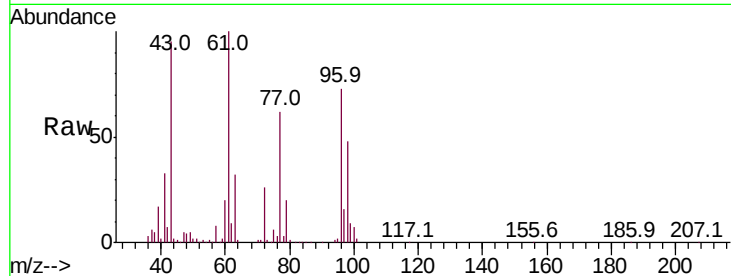


#27

cis-1,2-Dichloroethene  
Concen: 167.645 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :

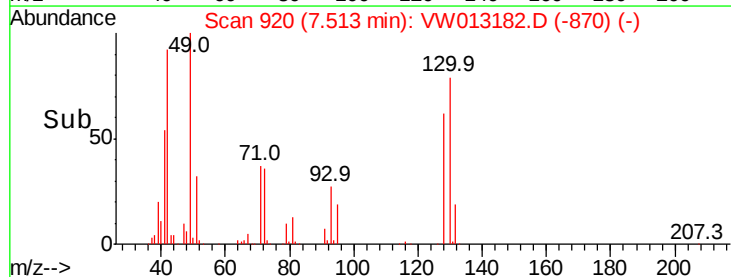
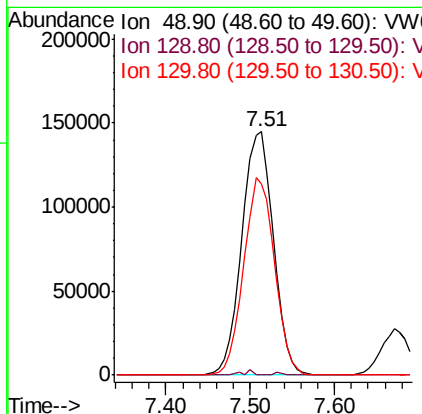
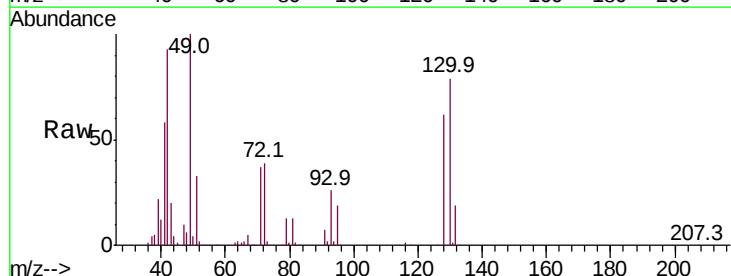
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 139.6 | 0.0   | 282.4 |
| 98      | 64.5  | 0.0   | 128.2 |

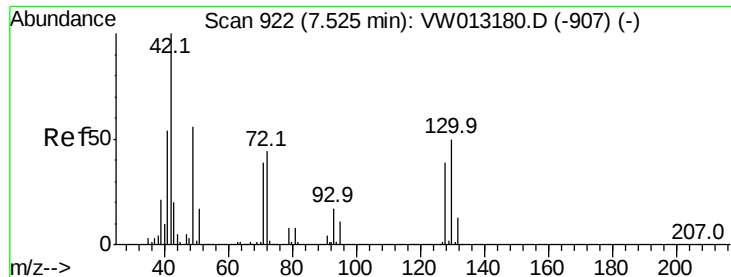


#28

Bromochloromethane  
Concen: 152.025 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. 0.01 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 1.0   |
| 130     | 79.2  | 63.4  | 95.2  |

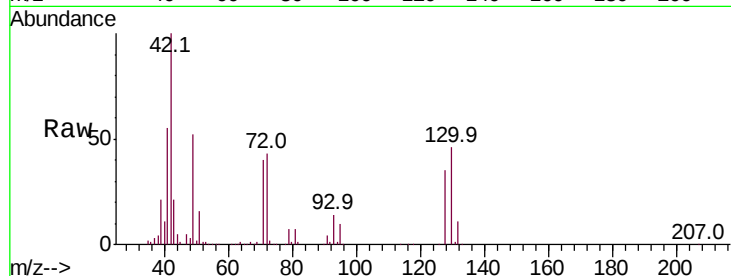




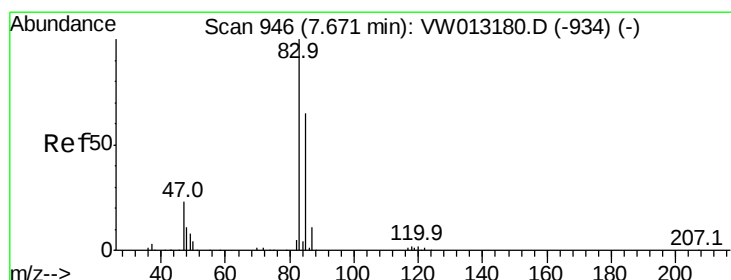
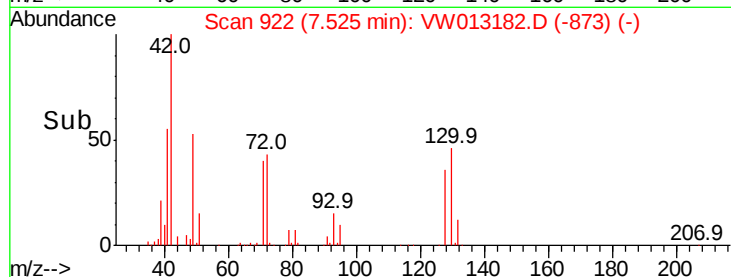
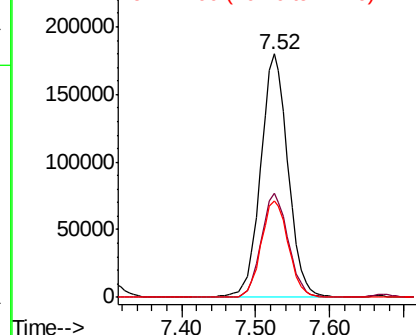
#29  
Tetrahydrofuran  
Concen: 768.171 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 42 Resp: 462273  
Ion Ratio Lower Upper  
42 100  
72 42.1 33.9 50.9  
71 39.4 31.9 47.9

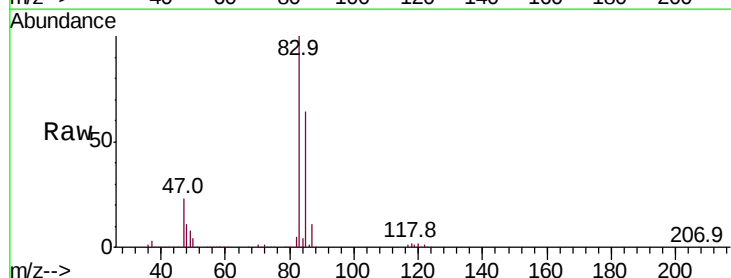


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

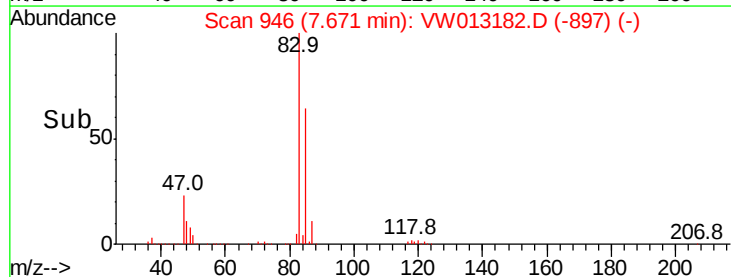
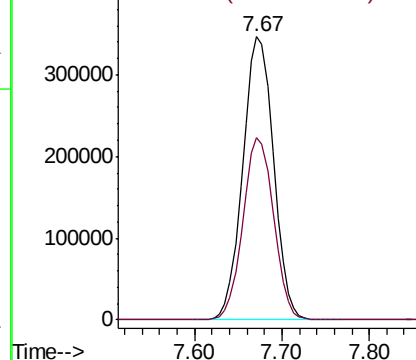


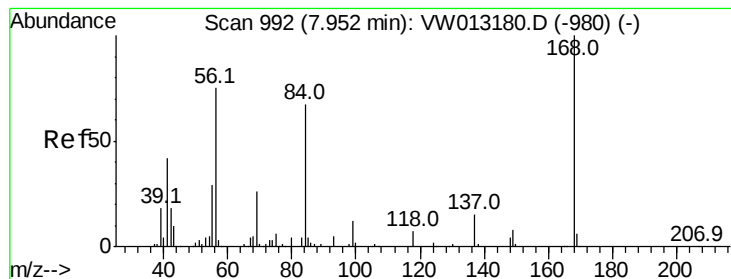
#30  
Chloroform  
Concen: 146.461 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 83 Resp: 848474  
Ion Ratio Lower Upper  
83 100  
85 64.2 52.3 78.5



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 168.876 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

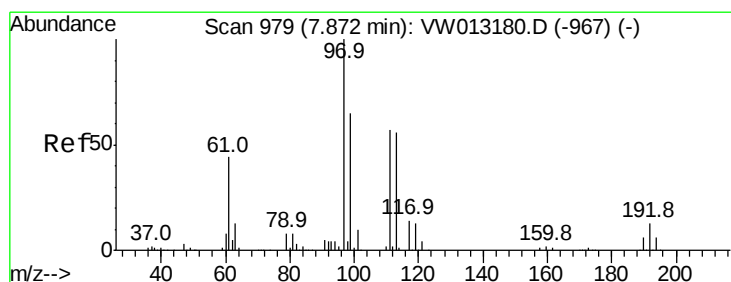
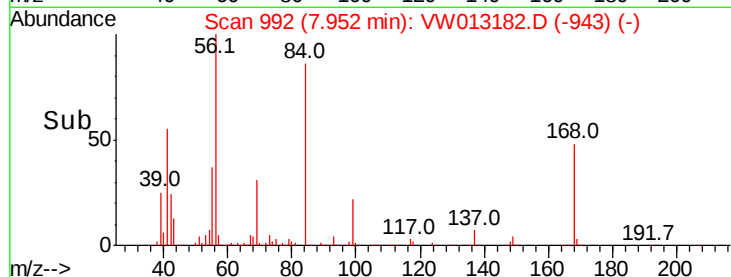
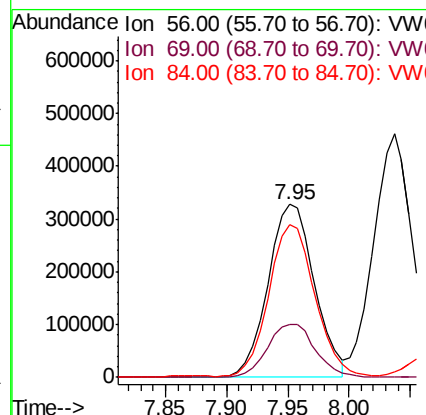
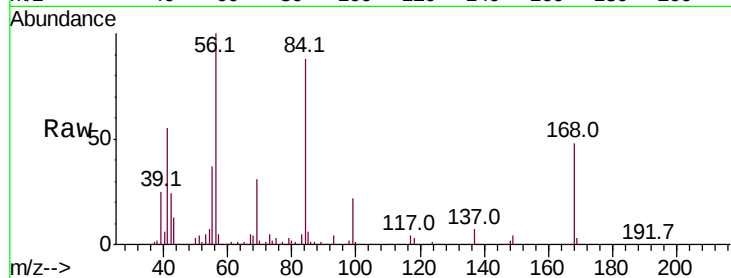
Tot Ion: 56 Resp: 865114

Ion Ratio Lower Upper

56 100

69 30.9 27.2 40.8

84 87.1 70.8 106.2



#32

1,1,1-Trichloroethane

Concen: 145.813 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

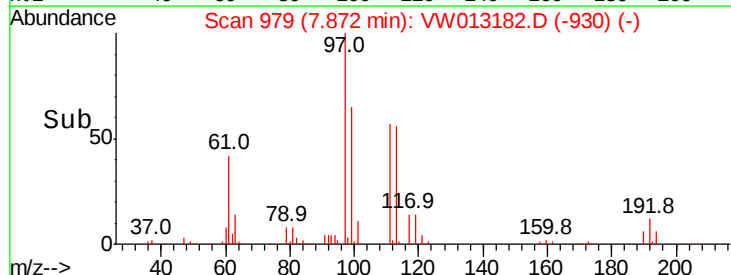
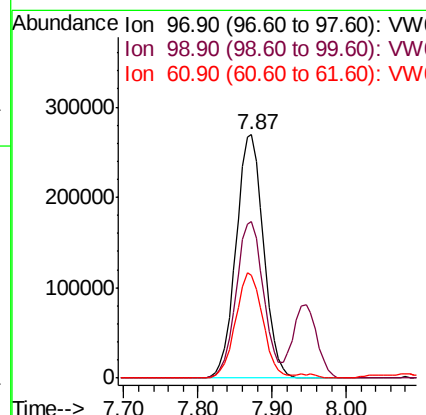
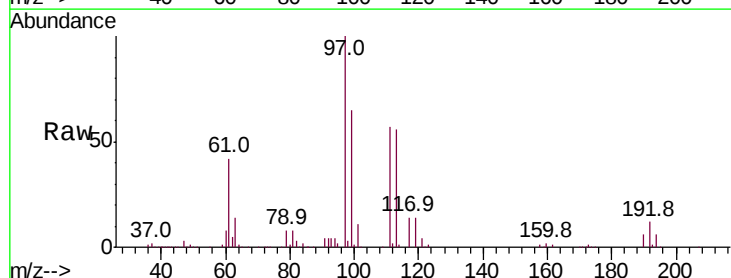
Tgt Ion: 97 Resp: 696770

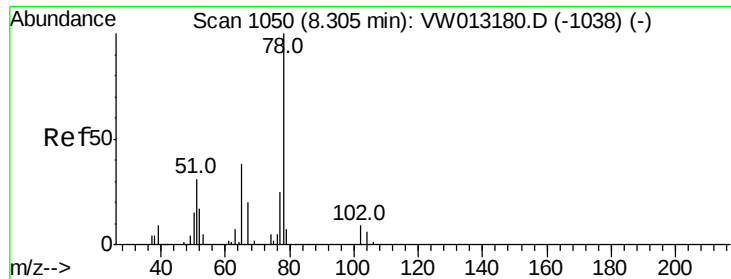
Ion Ratio Lower Upper

97 100

99 64.0 51.7 77.5

61 42.9 34.6 51.8





#33

1,2-Dichloroethane-d4

Concen: 130.218 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

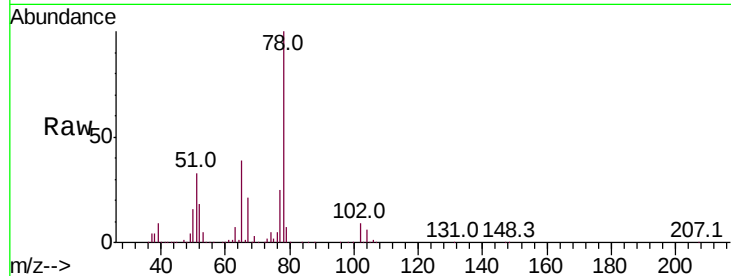
ClientSampleId :

Tot Ion: 65 Resp: 424604

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

200000

150000

100000

50000

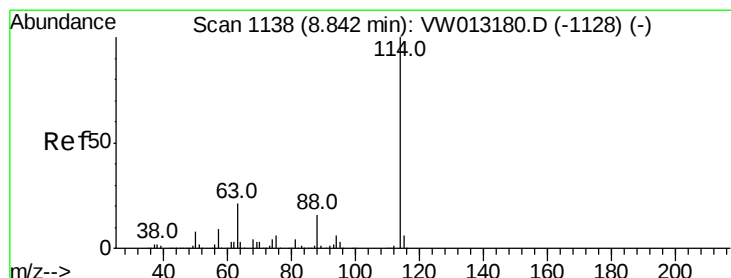
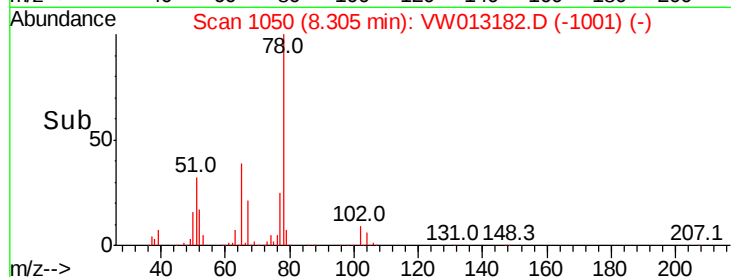
0

8.20

8.30

8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

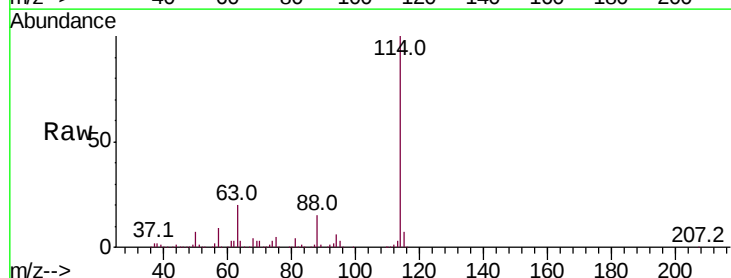
Tgt Ion: 114 Resp: 518740

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.4

88 15.5 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

300000

200000

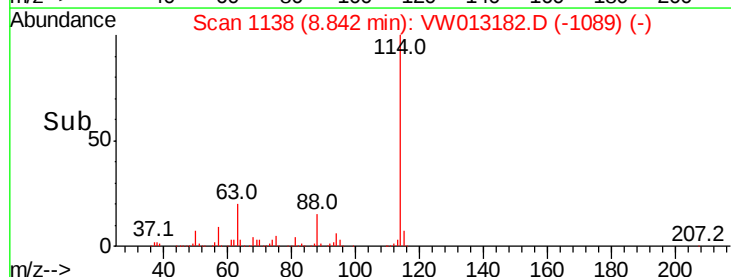
100000

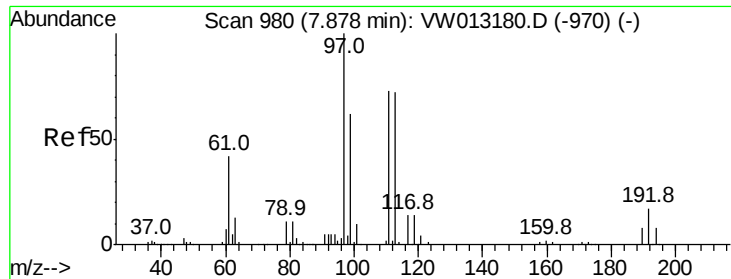
0

8.80

8.90

Time-->

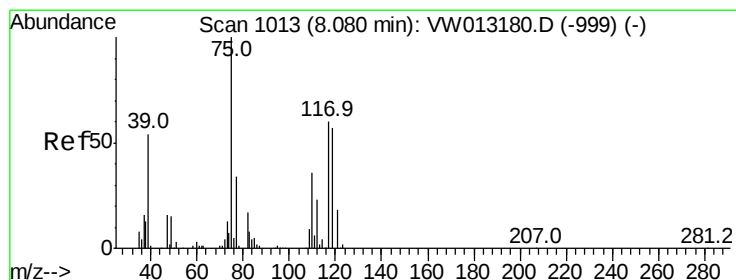
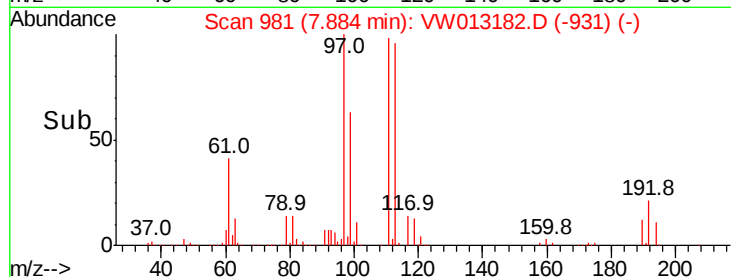
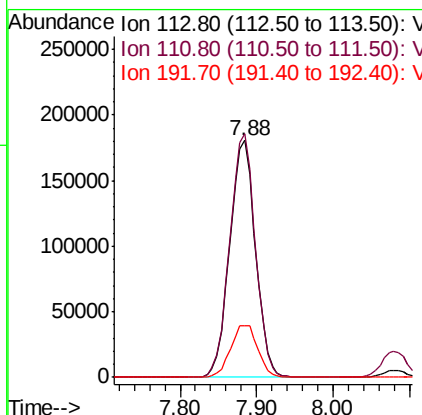
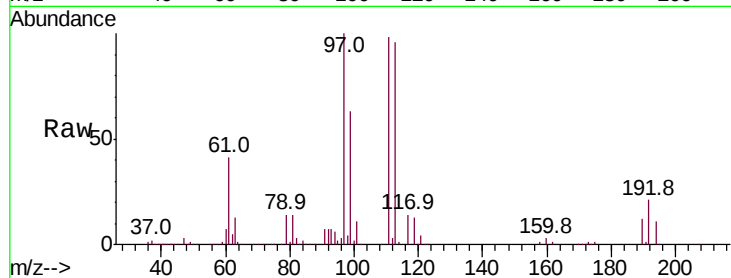




#35  
 Dibromofluoromethane  
 Concen: 150.168 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.01 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

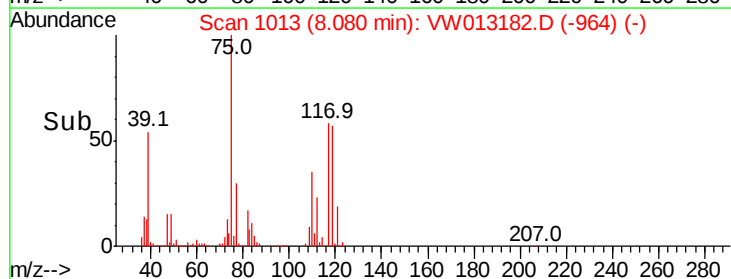
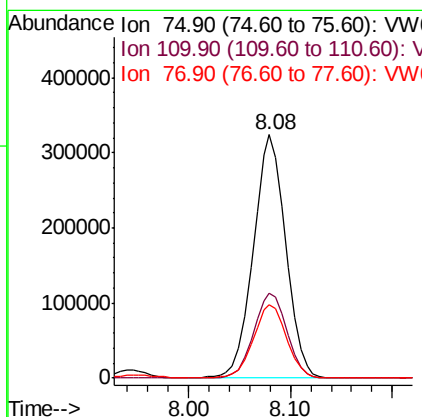
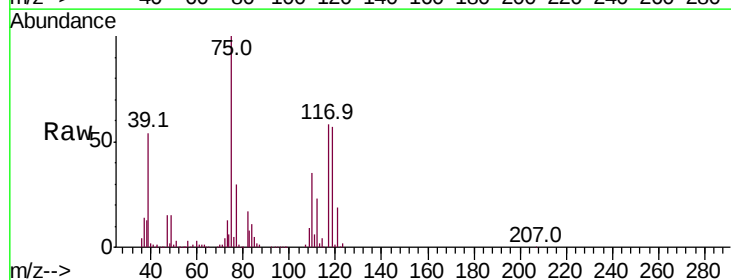
Instrument :  
 MSVOA\_W  
 ClientSampleId :

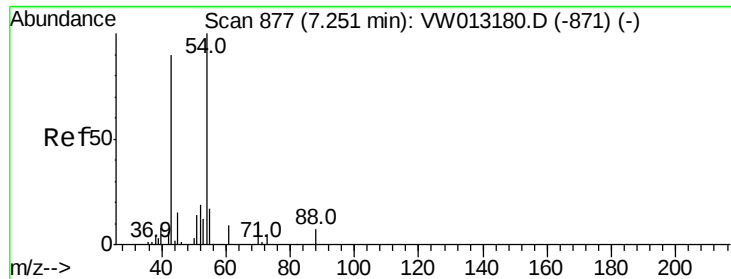
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 81.9  | 122.9 |
| 192     | 23.2  | 19.1  | 28.7  |



#36  
 1,1-Dichloropropene  
 Concen: 167.588 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.7  | 18.1  | 54.3  |
| 77      | 31.0  | 25.8  | 38.6  |

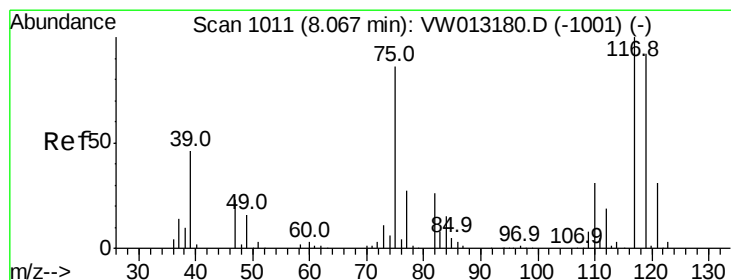
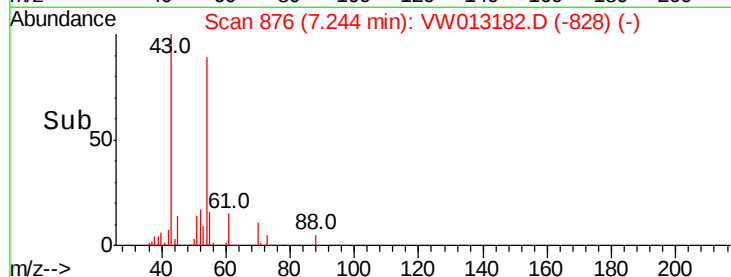
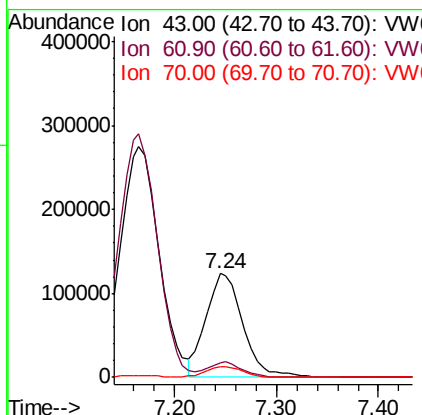
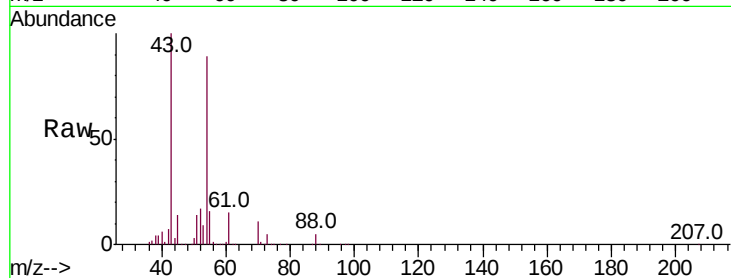




#37  
Ethyl Acetate  
Concen: 142.604 ug/l  
RT: 7.24 min Scan# 876  
Delta R.T. -0.01 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

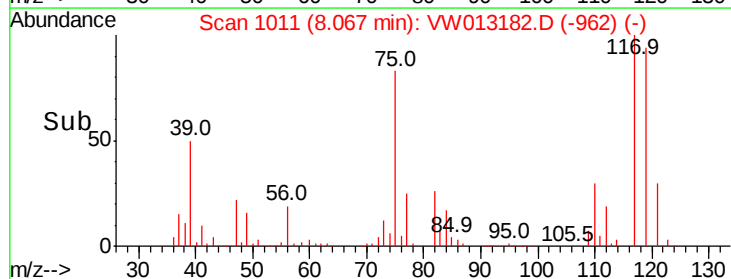
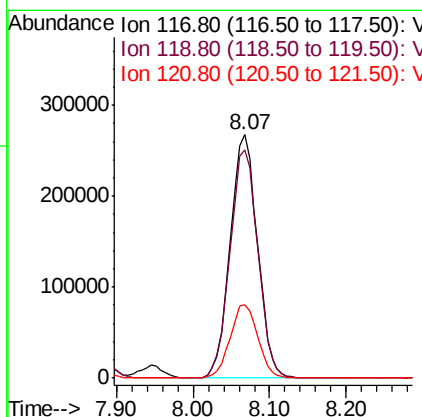
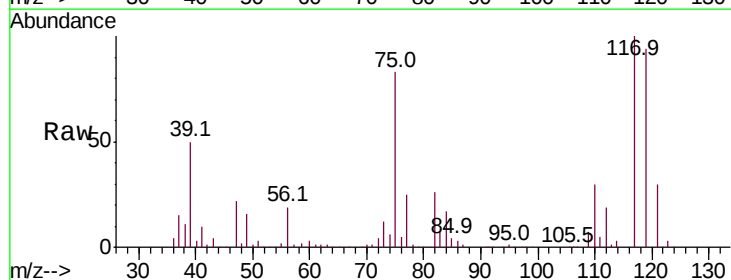
Instrument :  
MSVOA\_W  
ClientSampleId :

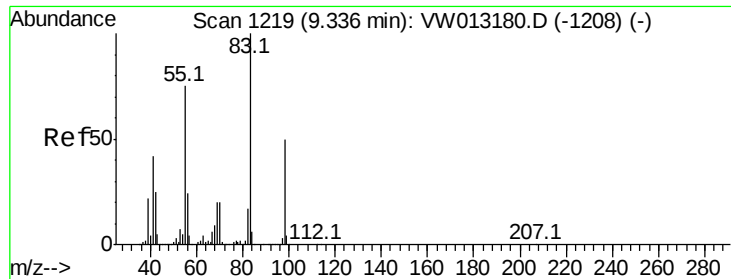
Tot Ion: 43 Resp: 310310  
Ion Ratio Lower Upper  
43 100  
61 13.7 10.9 16.3  
70 10.4 8.2 12.2



#38  
Carbon Tetrachloride  
Concen: 154.211 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 117 Resp: 661129  
Ion Ratio Lower Upper  
117 100  
119 93.7 73.5 110.3  
121 30.2 25.0 37.6

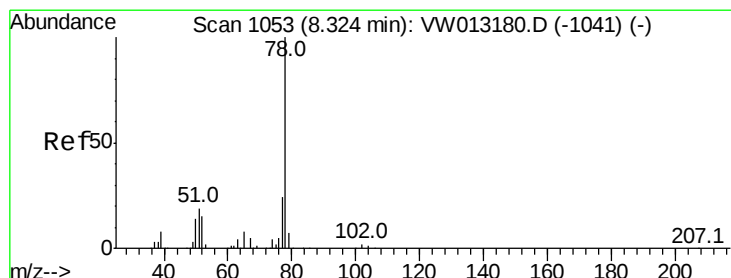
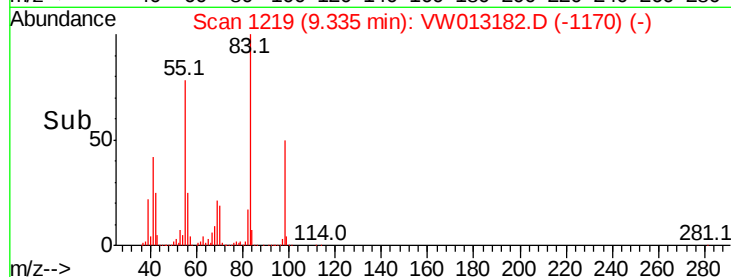
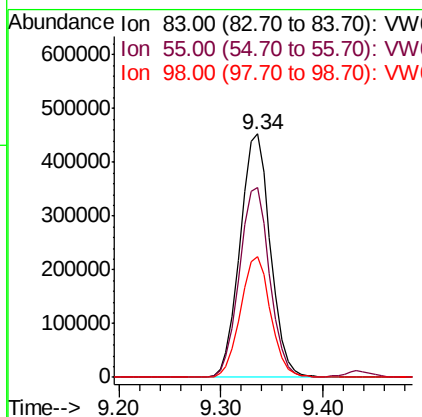
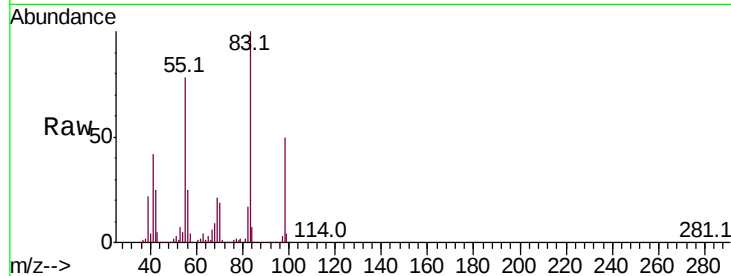




#39  
Methvlcvclohexane  
Concen: 192.267 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

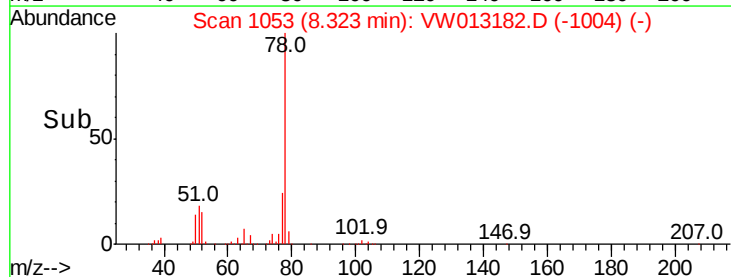
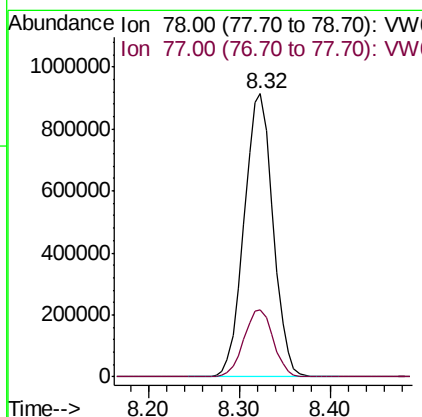
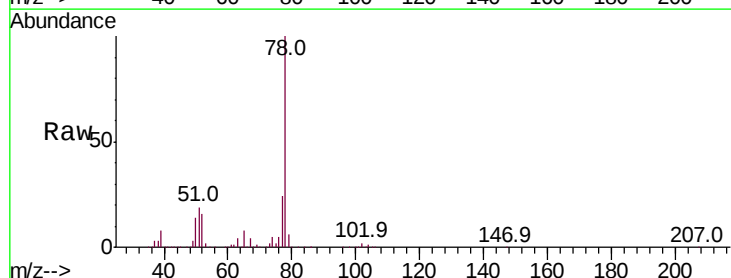
Instrument :  
MSVOA\_W  
ClientSampleId :

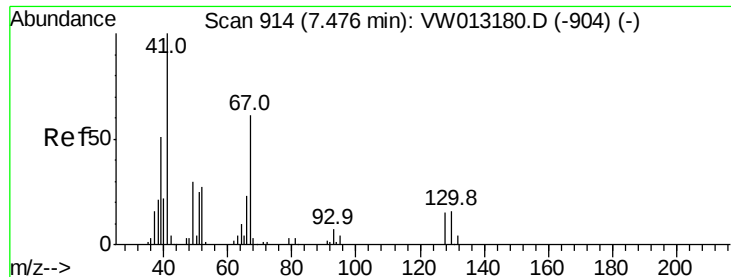
Tot Ion: 83 Resp: 937437  
Ion Ratio Lower Upper  
83 100  
55 77.9 60.4 90.6  
98 49.6 40.0 60.0



#40  
Benzene  
Concen: 168.725 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 78 Resp: 2014718  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.1 28.7





#41

Methacrylonitrile

Concen: 142.156 ug/l

RT: 7.48 min Scan# 914

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 41 Resp: 201561

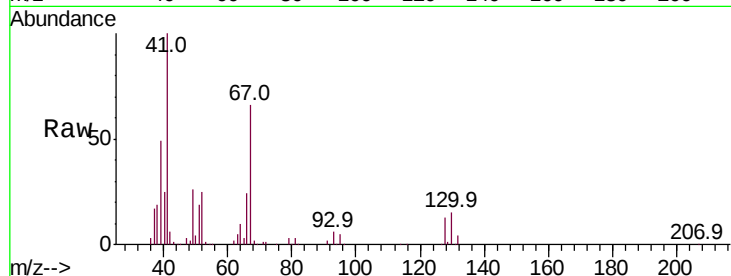
Ion Ratio Lower Upper

41 100

39 50.6 45.9 68.9

67 64.7 54.5 81.7

52 26.0 22.5 33.7

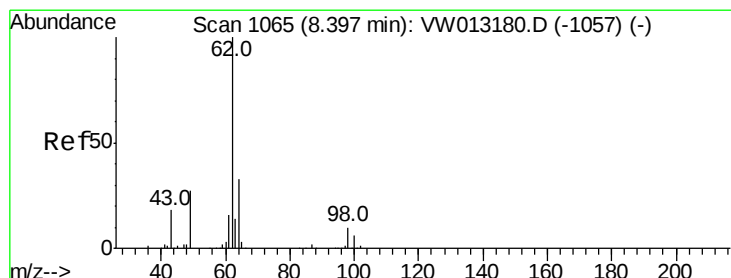
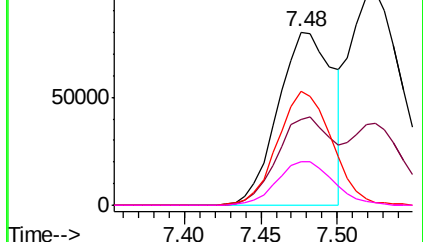
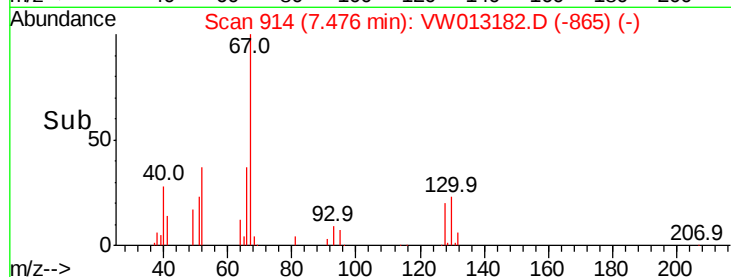


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 139.844 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW013182.D

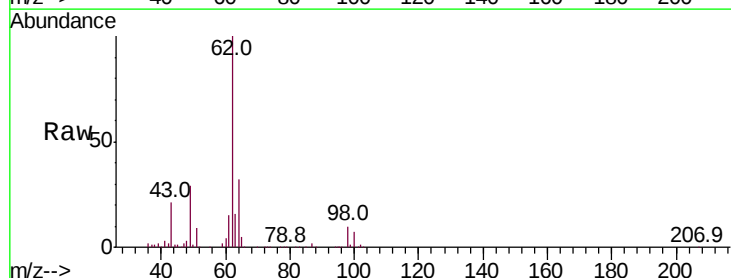
Acq: 20 Sep 2019 14:53

Tgt Ion: 62 Resp: 538293

Ion Ratio Lower Upper

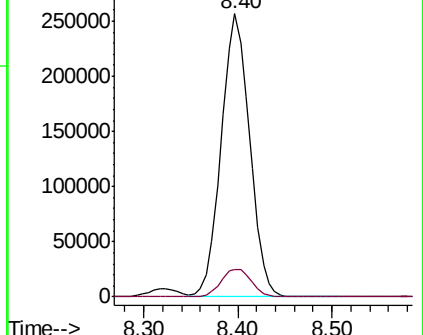
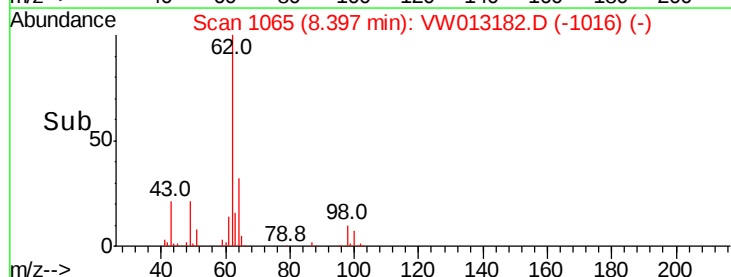
62 100

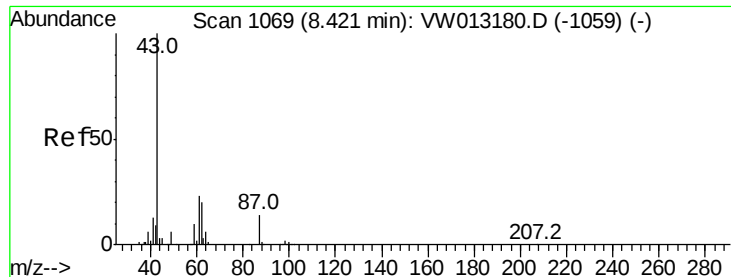
98 10.5 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 147.120 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :

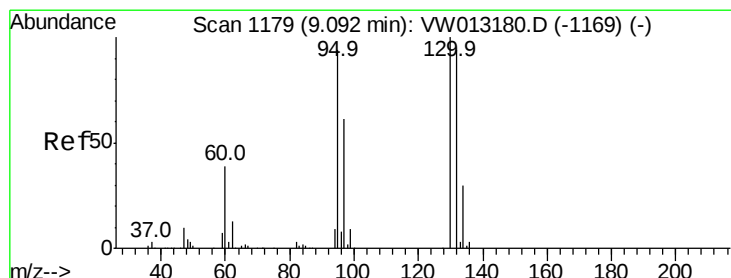
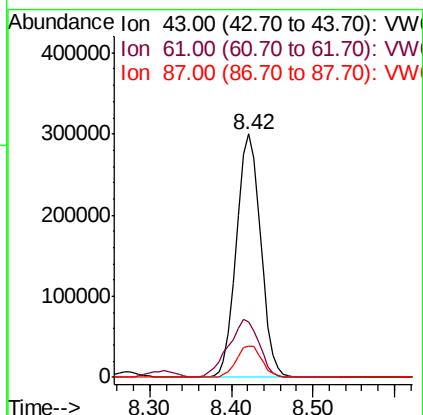
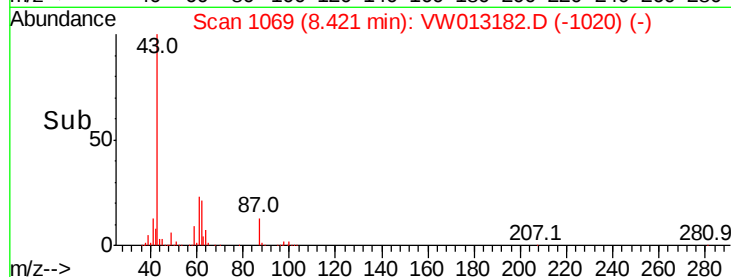
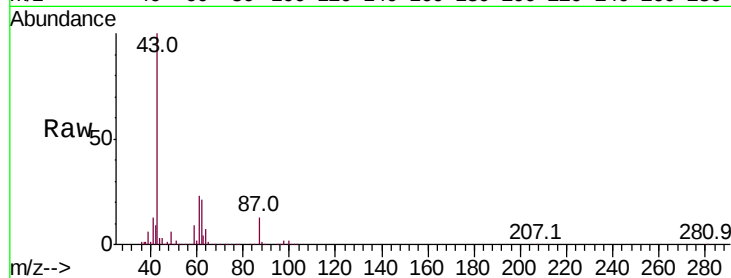
Tot Ion: 43 Resp: 612742

Ion Ratio Lower Upper

43 100

61 30.4 25.5 38.3

87 13.5 11.0 16.4



#44

Trichloroethene

Concen: 172.037 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013182.D

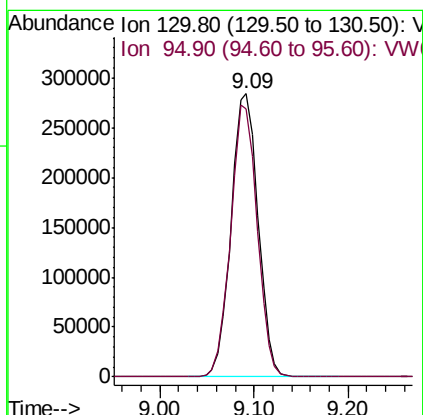
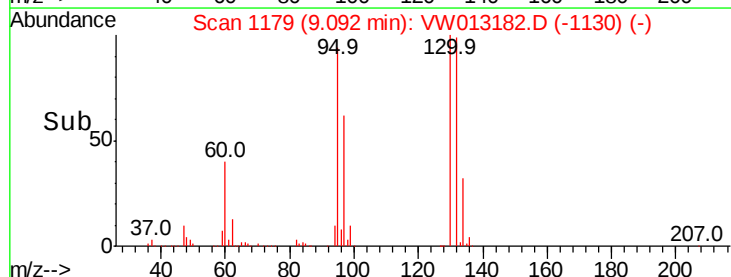
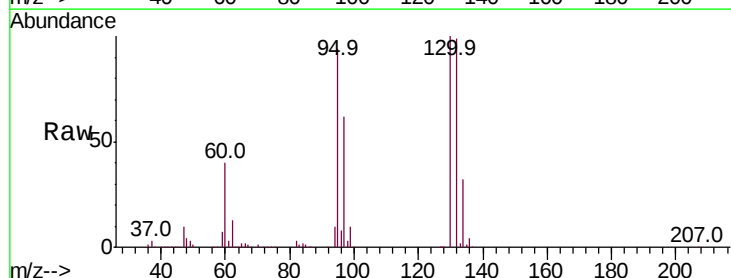
Acq: 20 Sep 2019 14:53

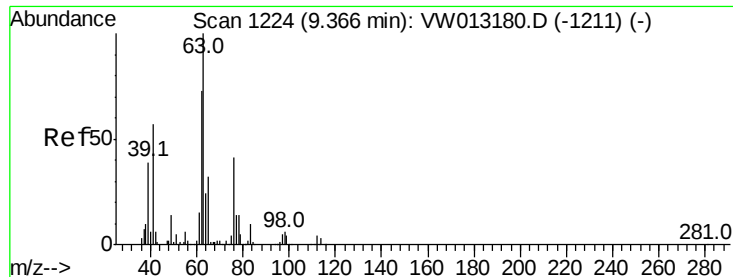
Tgt Ion:130 Resp: 566498

Ion Ratio Lower Upper

130 100

95 94.5 0.0 188.0





#45

1,2-Dichloropropane

Concen: 159.415 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

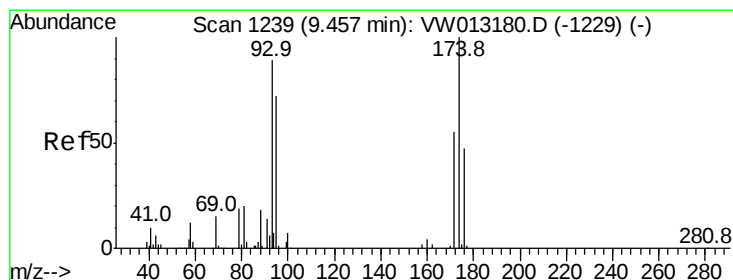
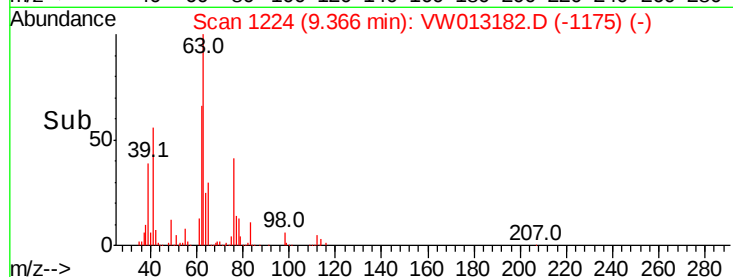
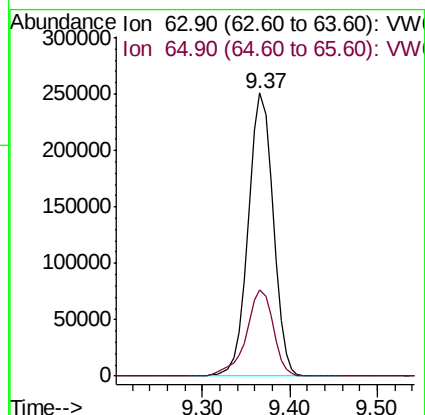
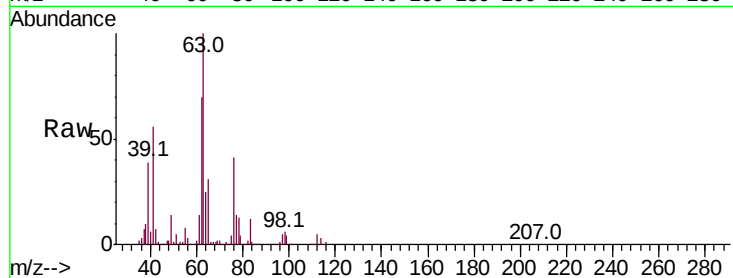
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 63 Resp: 496521

Ion Ratio Lower Upper

63 100

65 30.6 25.3 37.9



#46

Dibromomethane

Concen: 160.779 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

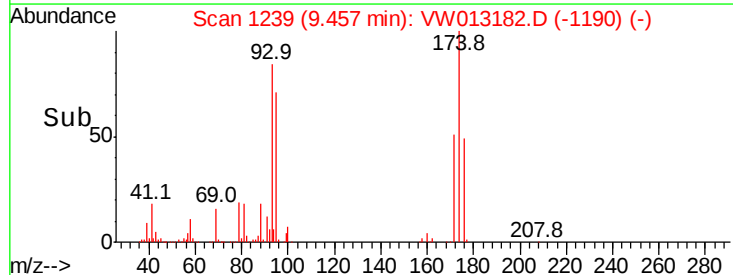
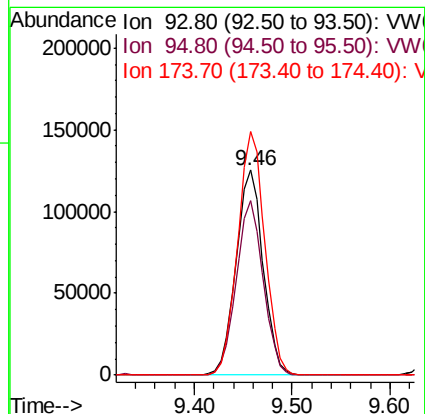
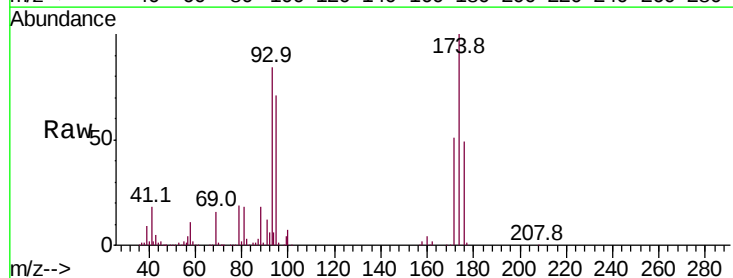
Tgt Ion: 93 Resp: 240497

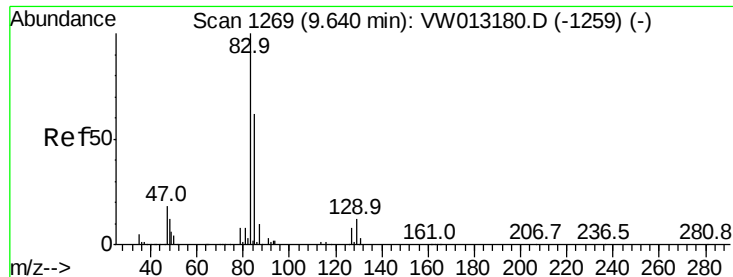
Ion Ratio Lower Upper

93 100

95 84.6 66.4 99.6

174 119.2 93.0 139.6





#47

Bromodichloromethane

Concen: 154.381 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

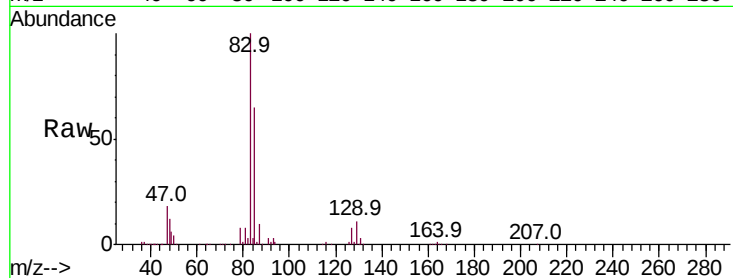
Tot Ion: 83 Resp: 636710

Ion Ratio Lower Upper

83 100

85 65.0 49.4 74.2

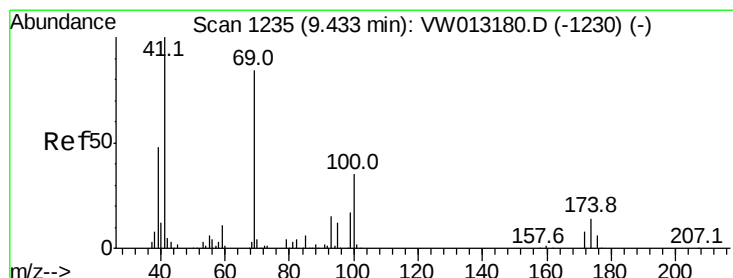
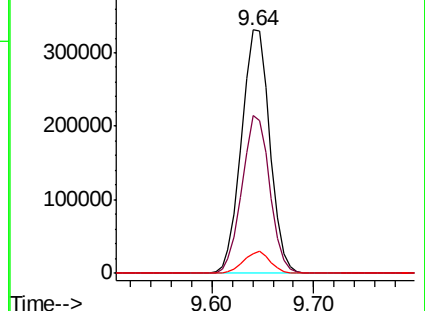
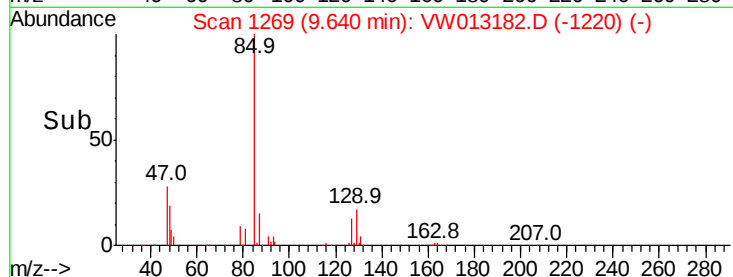
127 8.3 6.5 9.7



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 158.735 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

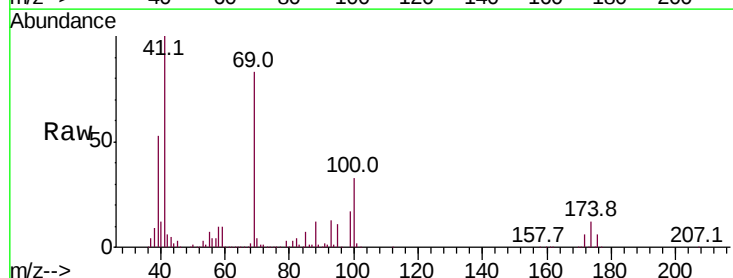
Tgt Ion: 41 Resp: 310963

Ion Ratio Lower Upper

41 100

69 83.6 69.7 104.5

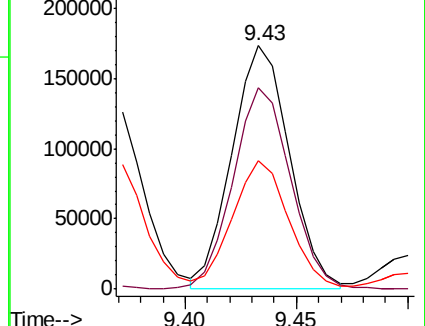
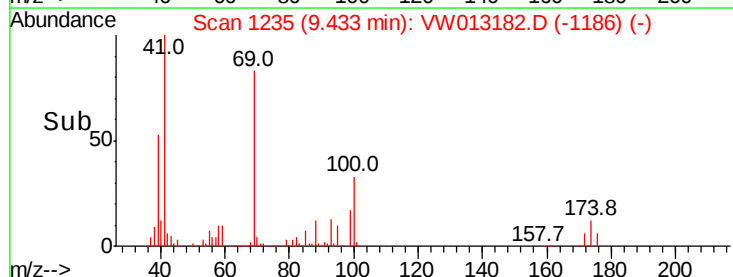
39 49.6 41.1 61.7

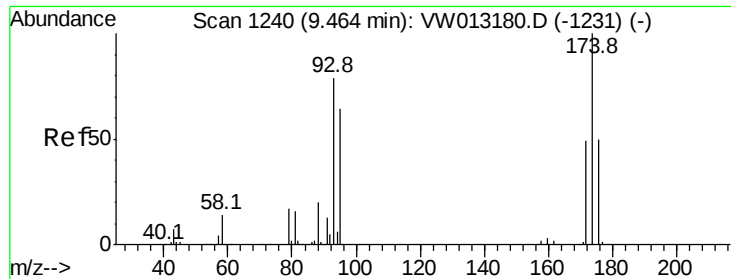


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

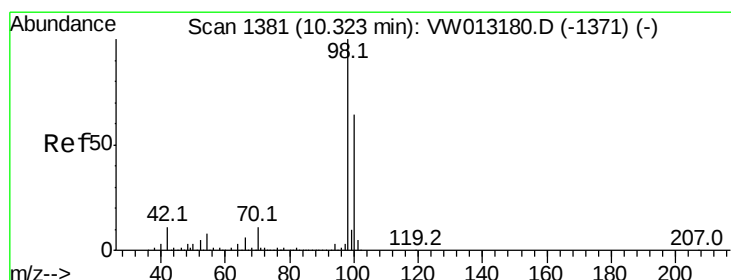
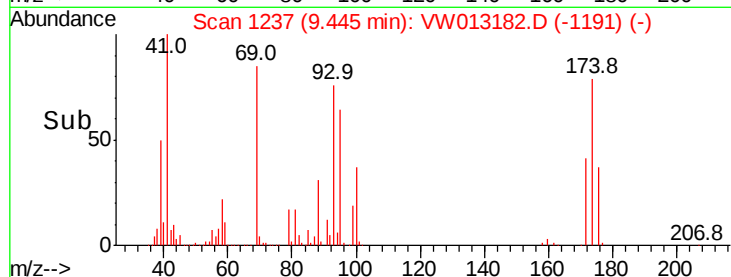
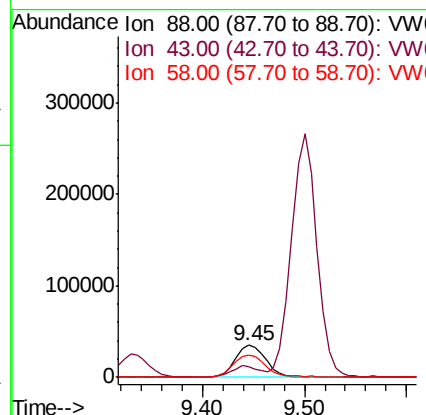
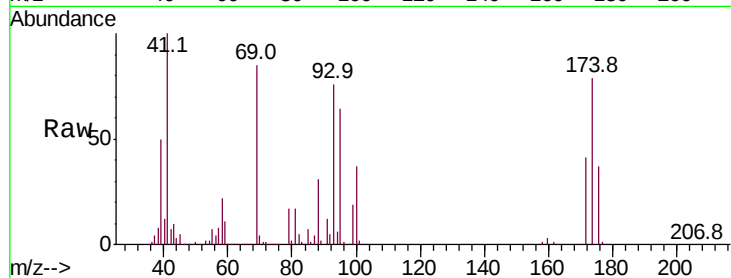




#49  
1,4-Dioxane  
Concen: 3041.155 ug/l  
RT: 9.45 min Scan# 1237  
Delta R.T. -0.02 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

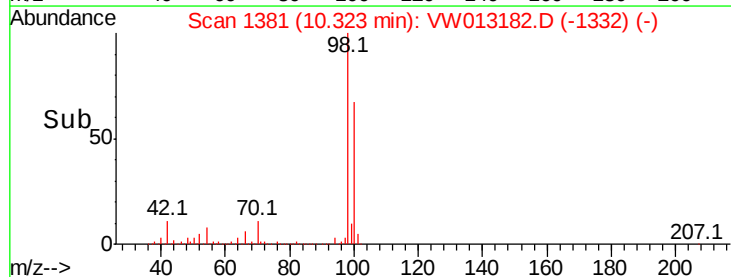
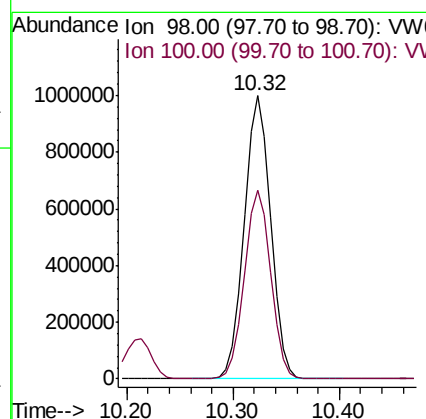
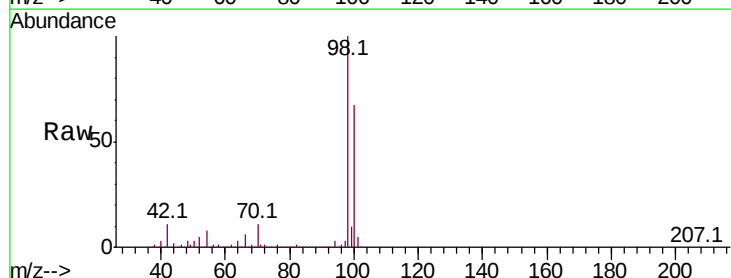
Instrument :  
MSVOA\_W  
ClientSampleId :

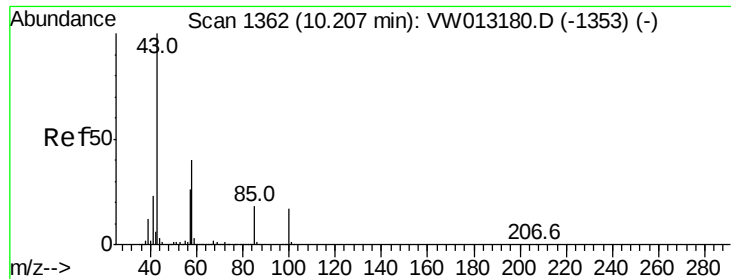
Tot Ion: 88 Resp: 72872  
Ion Ratio Lower Upper  
88 100  
43 33.4 0.0 0.0#  
58 74.8 65.4 98.0



#50  
Toluene-d8  
Concen: 157.656 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 98 Resp: 1743654  
Ion Ratio Lower Upper  
98 100  
100 66.5 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 716.219 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

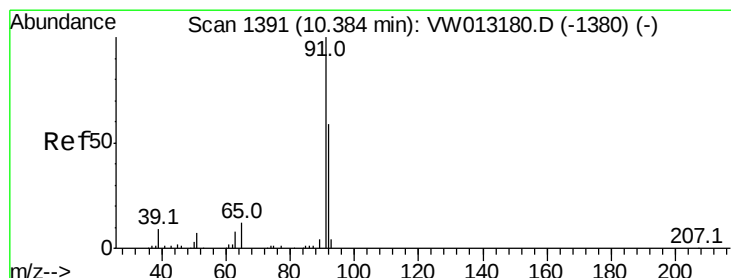
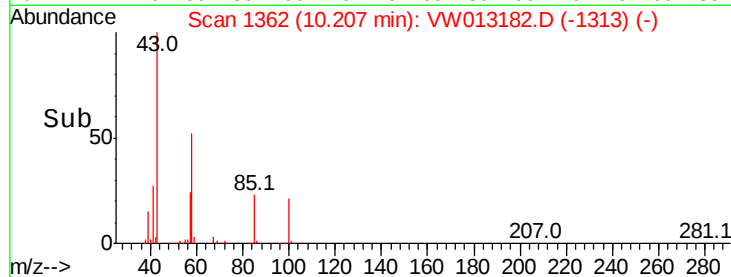
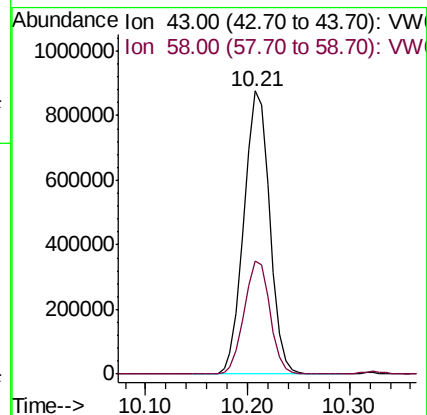
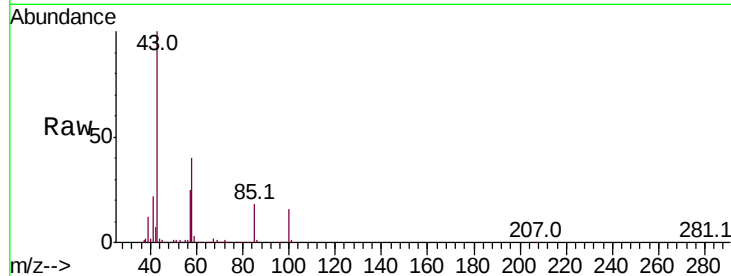
ClientSampled :

Tot Ion: 43 Resp: 1533608

Ion Ratio Lower Upper

43 100

58 40.1 31.7 47.5



#52

Toluene

Concen: 171.786 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013182.D

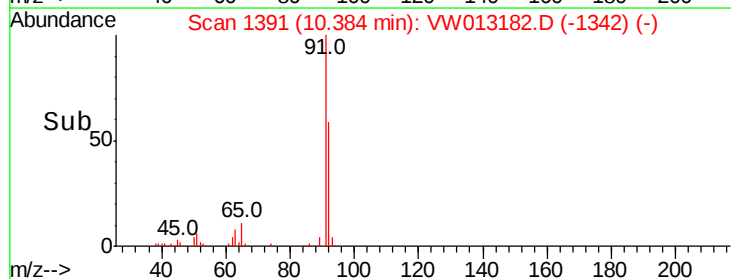
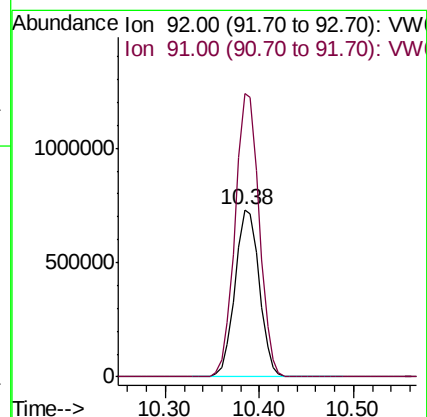
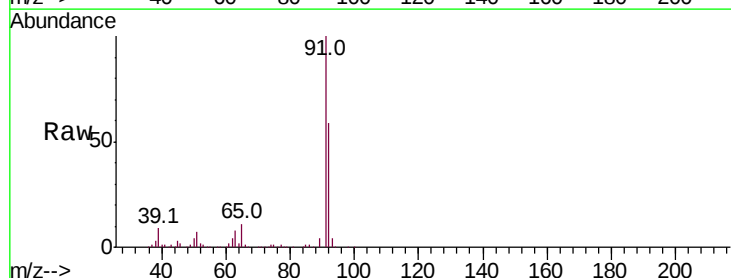
Acq: 20 Sep 2019 14:53

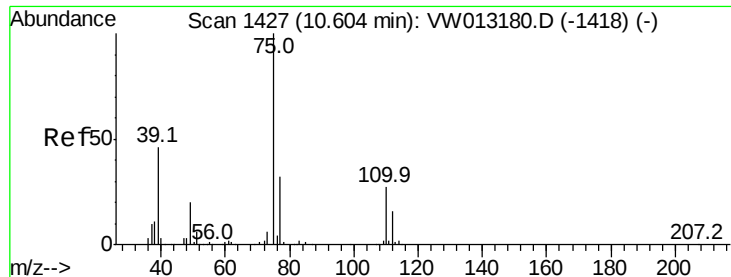
Tgt Ion: 92 Resp: 1304717

Ion Ratio Lower Upper

92 100

91 168.7 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 161.895 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

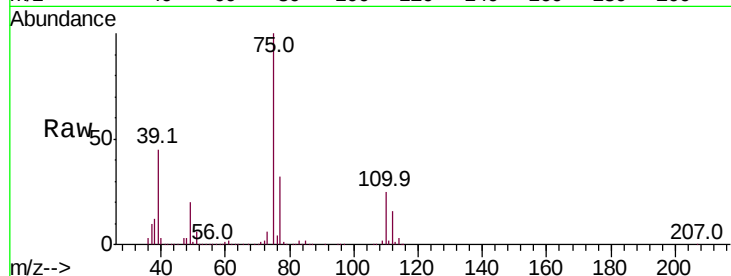
ClientSampleId :

Tot Ion: 75 Resp: 675162

Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.60

400000

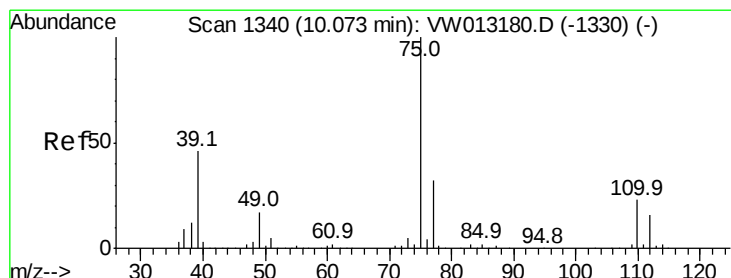
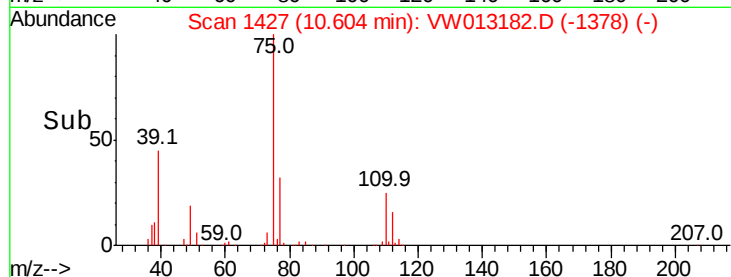
300000

200000

100000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 169.927 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

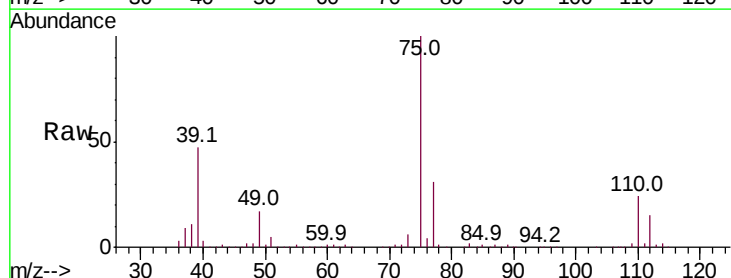
Tgt Ion: 75 Resp: 818199

Ion Ratio Lower Upper

75 100

77 30.7 25.2 37.8

39 46.7 36.6 55.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

10.07

600000

500000

400000

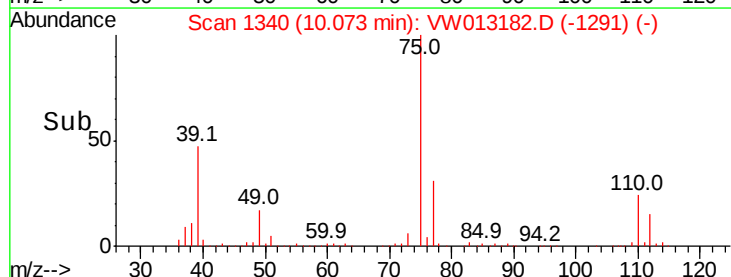
300000

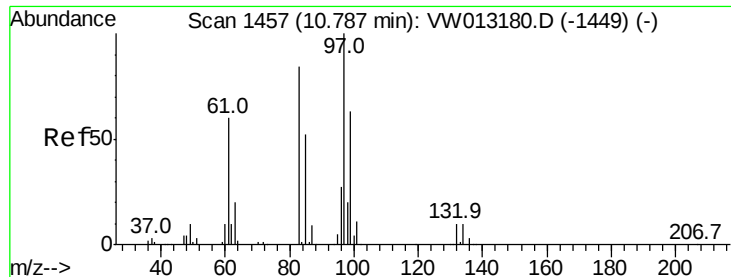
200000

100000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 159.680 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

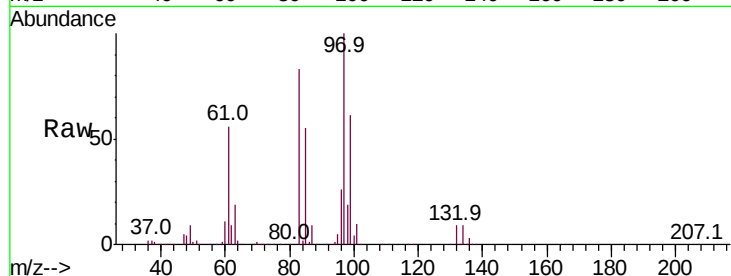
Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 97 Resp: 362644

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 83.5  | 67.6  | 101.4 |
| 85  | 54.9  | 41.9  | 62.9  |
| 99  | 61.2  | 50.1  | 75.1  |



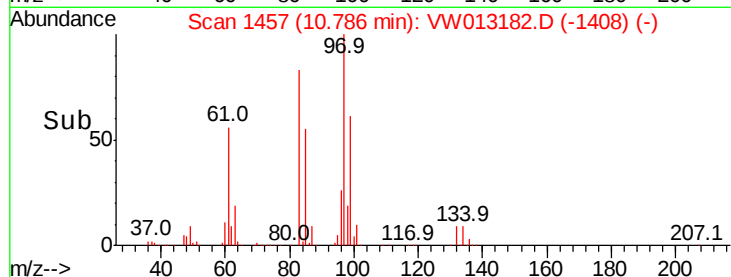
Abundance

Ion 96.90 (96.60 to 97.60): VW

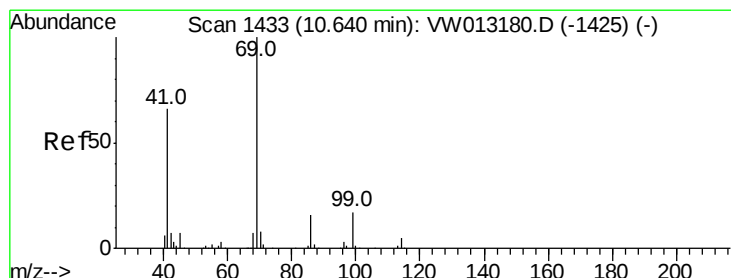
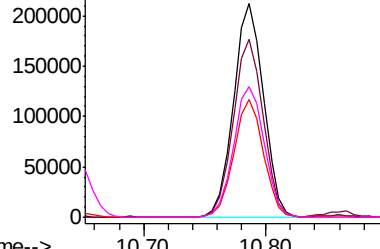
Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



Time-->



#56

Ethyl methacrylate

Concen: 167.722 ug/l

RT: 10.65 min Scan# 1434

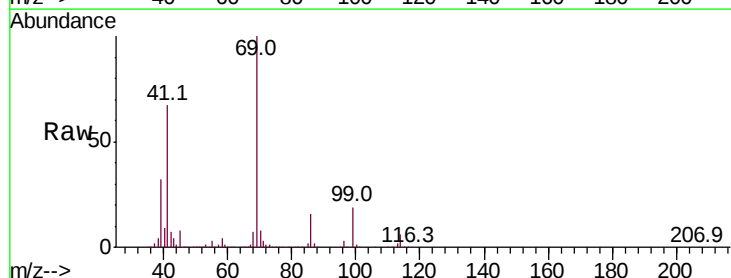
Delta R.T. 0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Tgt Ion: 69 Resp: 509675

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 67.8  | 53.9  | 80.9  |
| 39  | 29.4  | 23.8  | 35.6  |

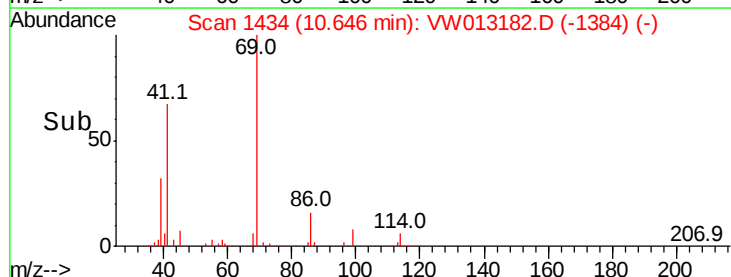


Abundance

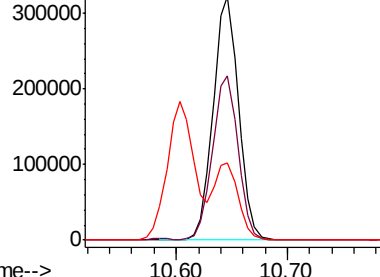
Ion 69.00 (68.70 to 69.70): VW

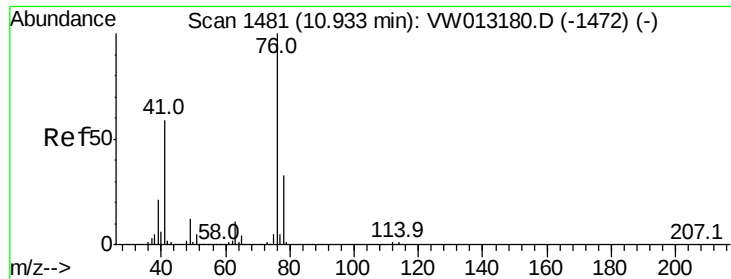
Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



Time-->





#57

1,3-Dichloropropane

Concen: 158.832 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

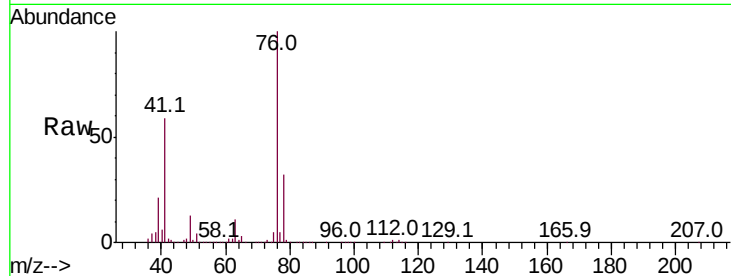
ClientSampled :

Tot Ion: 76 Resp: 638161

Ion Ratio Lower Upper

76 100

78 32.2 25.5 38.3



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

10.93

400000

300000

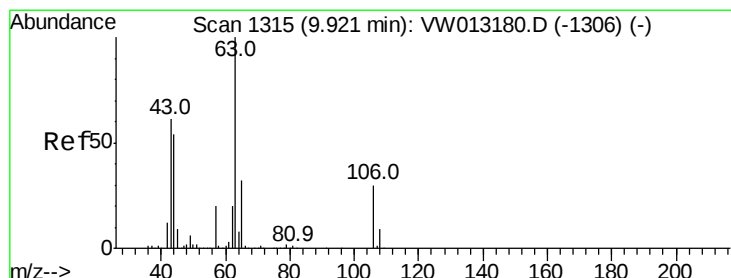
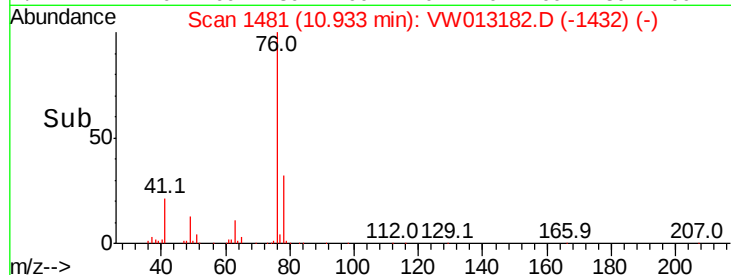
200000

100000

0

10.90 11.00

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 715.527 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VW013182.D

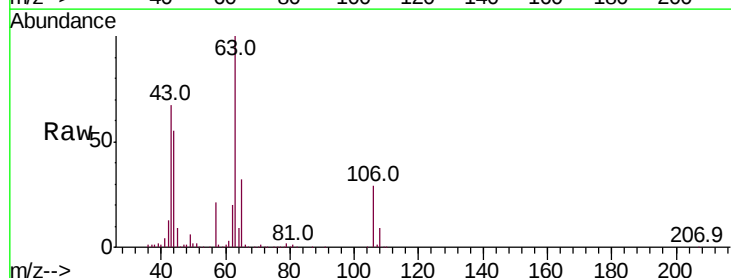
Acq: 20 Sep 2019 14:53

Tgt Ion: 63 Resp: 1150289

Ion Ratio Lower Upper

63 100

106 28.8 23.4 35.0



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V

9.92

600000

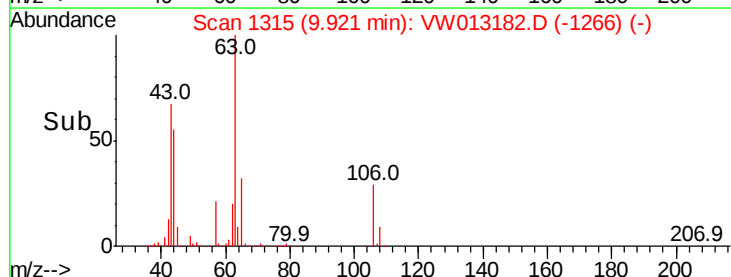
400000

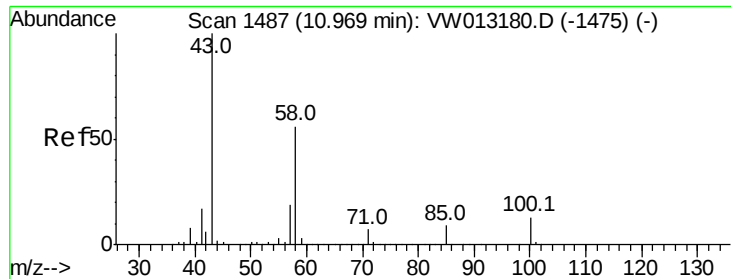
200000

0

9.90 10.00

Time-->





#59

2-Hexanone

Concen: 732.175 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

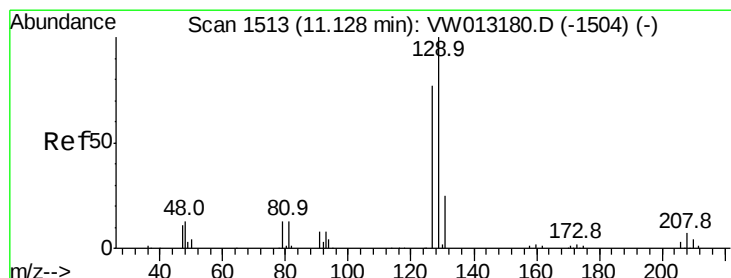
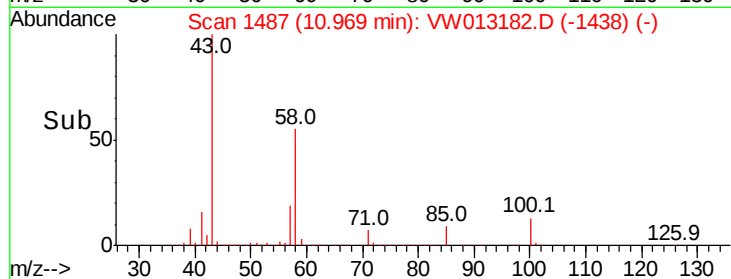
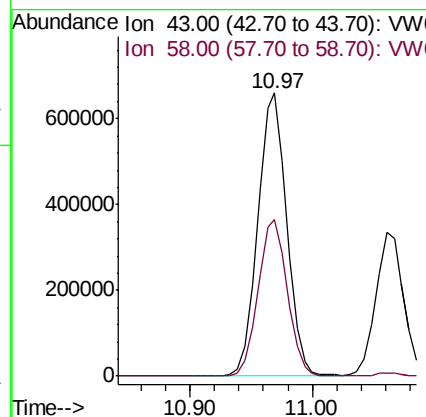
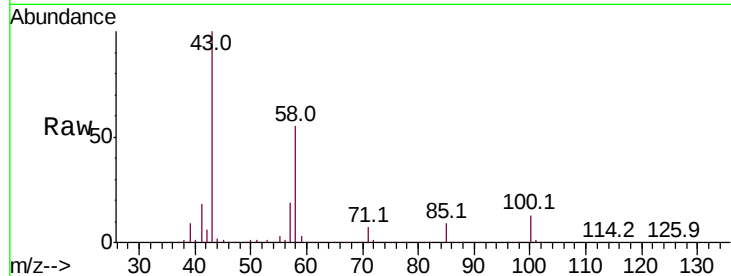
ClientSampleId :

Tot Ion: 43 Resp: 1085921

Ion Ratio Lower Upper

43 100

58 56.0 28.1 84.2



#60

Dibromochloromethane

Concen: 161.238 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013182.D

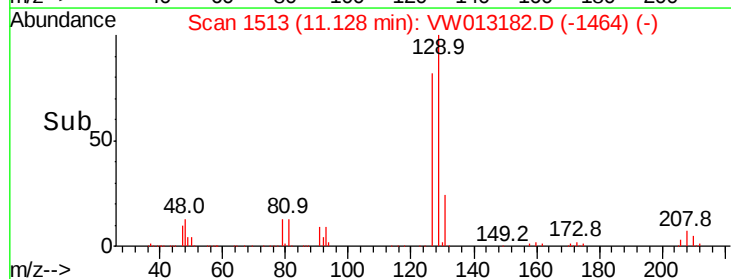
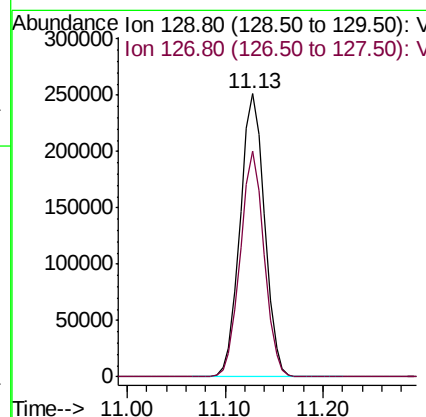
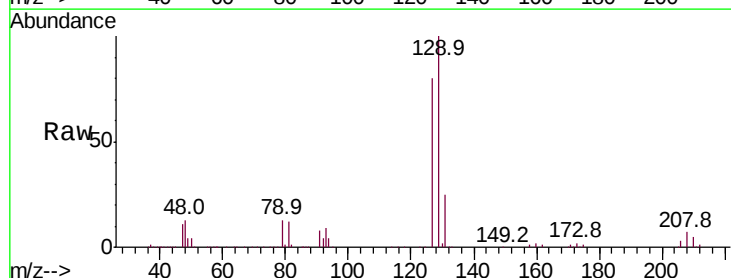
Acq: 20 Sep 2019 14:53

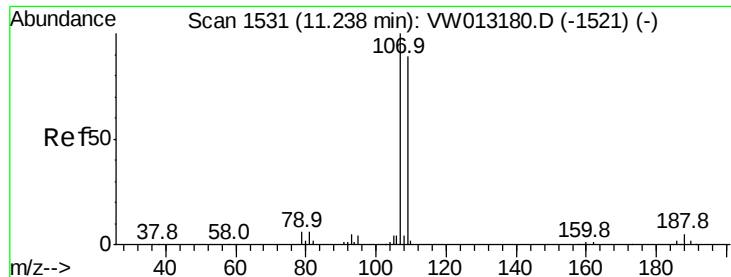
Tgt Ion: 129 Resp: 437363

Ion Ratio Lower Upper

129 100

127 77.6 38.8 116.4





#61

1,2-Dibromoethane

Concen: 167.807 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

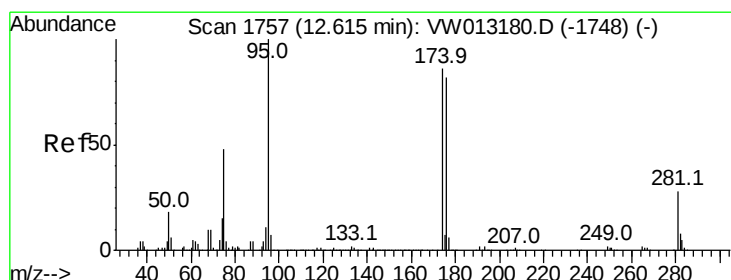
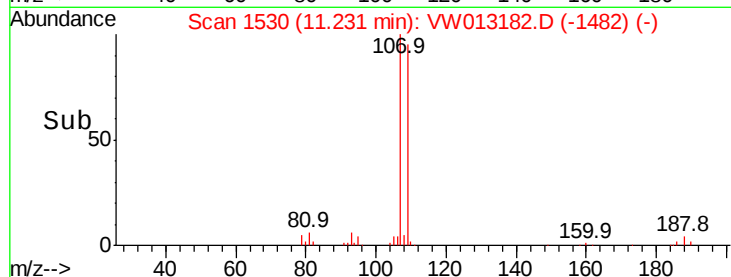
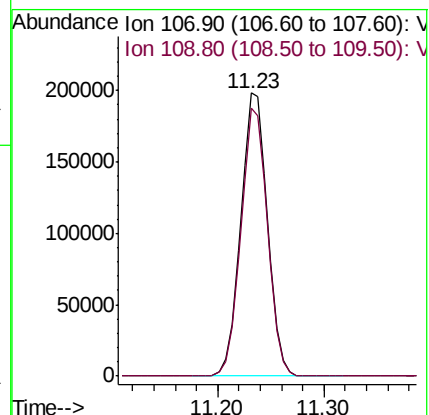
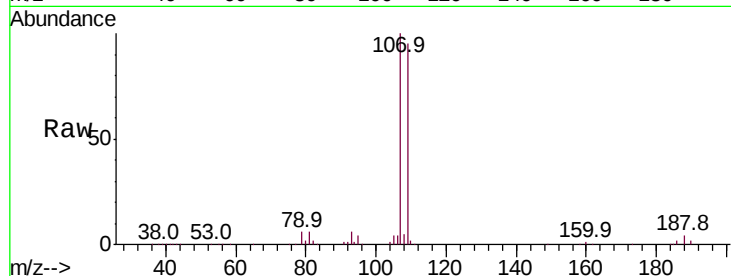
ClientSampleId :

Tot Ion:107 Resp: 348753

Ion Ratio Lower Upper

107 100

109 94.3 75.2 112.8



#62

4-Bromofluorobenzene

Concen: 150.168 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

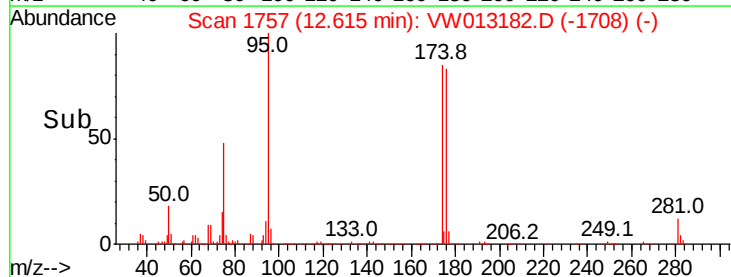
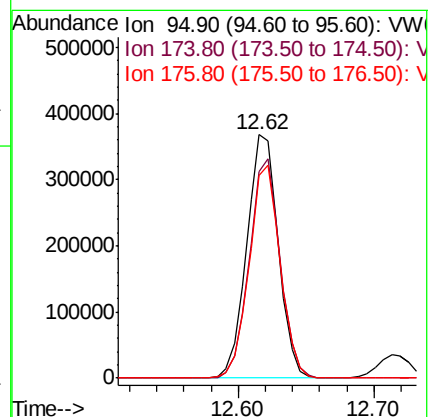
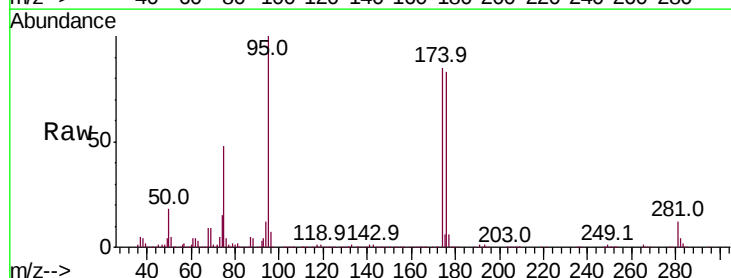
Tgt Ion: 95 Resp: 594727

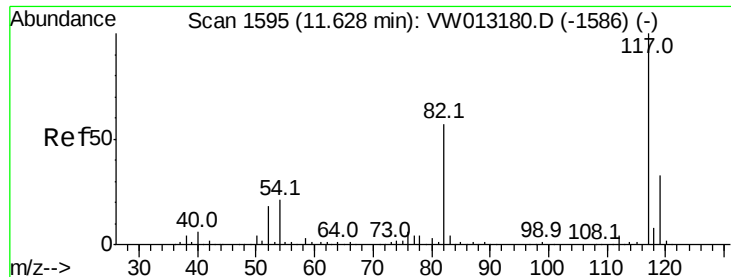
Ion Ratio Lower Upper

95 100

174 88.4 0.0 178.4

176 86.2 0.0 172.2

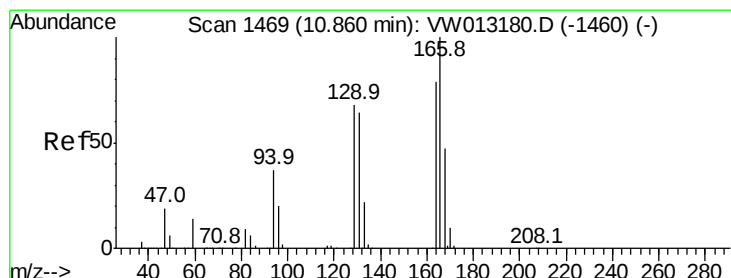
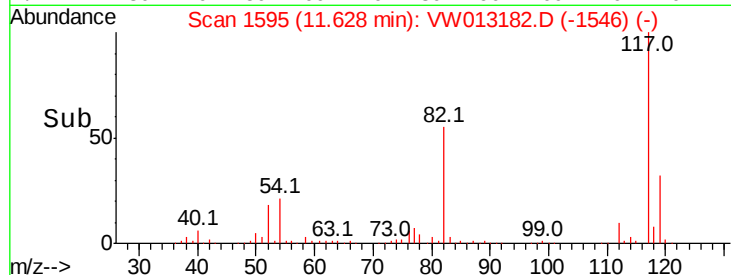
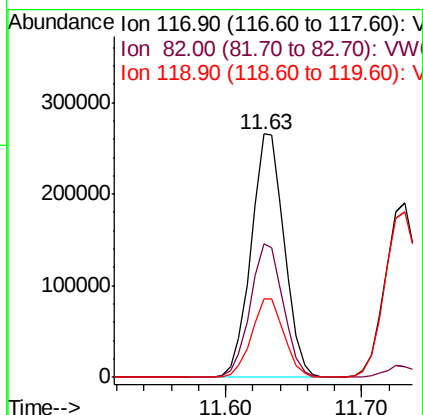
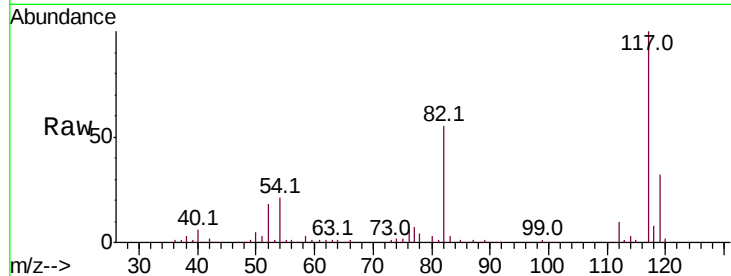




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

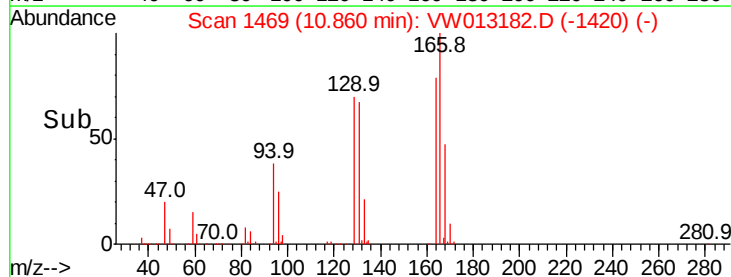
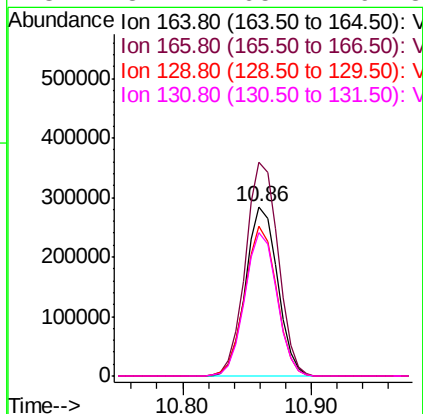
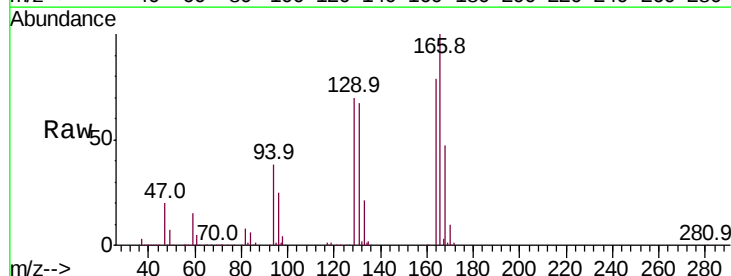
Instrument :  
MSVOA\_W  
ClientSampleId :

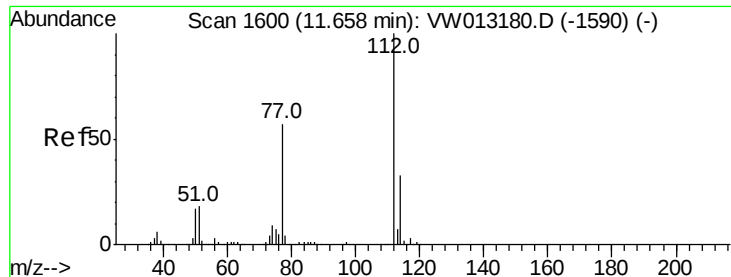
Tot Ion:117 Resp: 453748  
Ion Ratio Lower Upper  
117 100  
82 55.1 45.9 68.9  
119 32.2 26.2 39.2



#64  
Tetrachloroethene  
Concen: 172.104 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion:164 Resp: 485303  
Ion Ratio Lower Upper  
164 100  
166 126.0 101.2 151.8  
129 88.2 68.8 103.2  
131 84.4 65.2 97.8

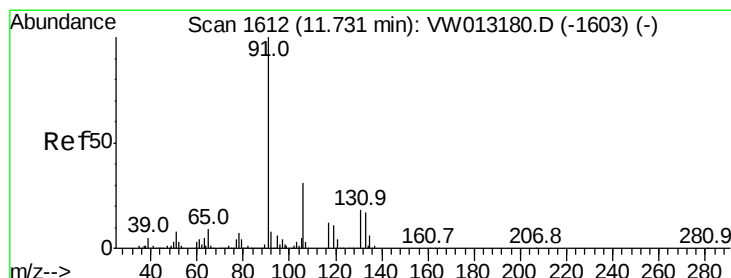
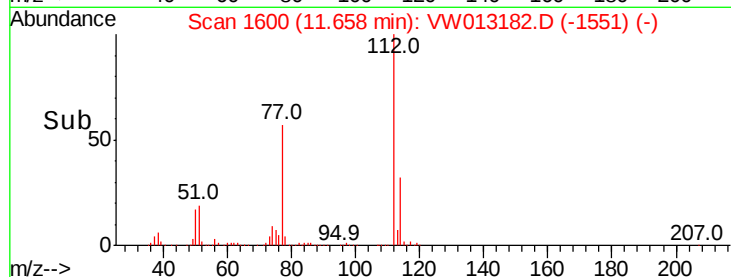
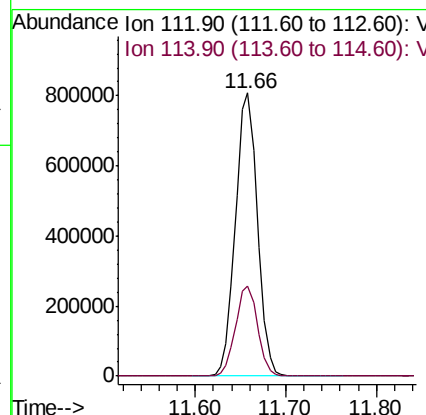
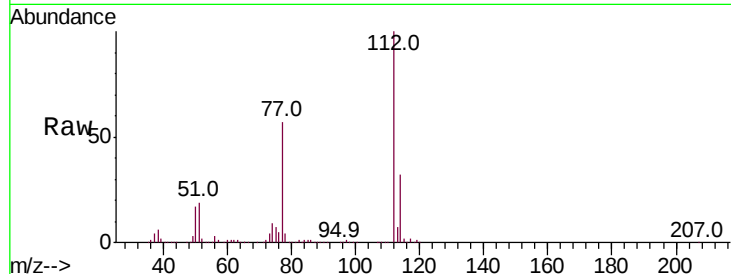




#65  
Chlorobenzene  
Concen: 163.881 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

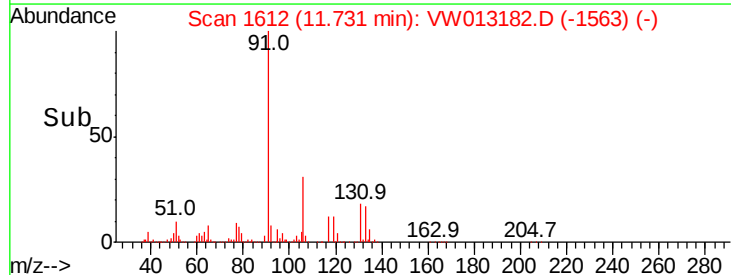
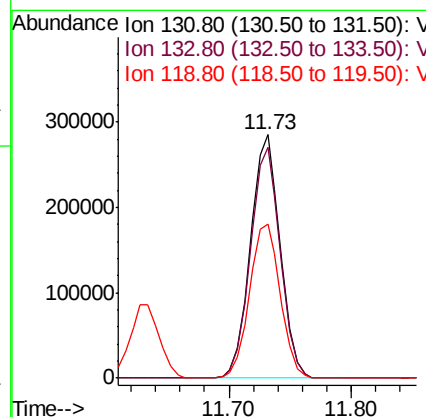
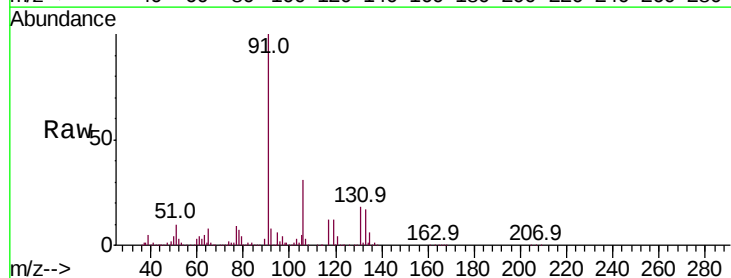
Instrument :  
MSVOA\_W  
ClientSampleId :

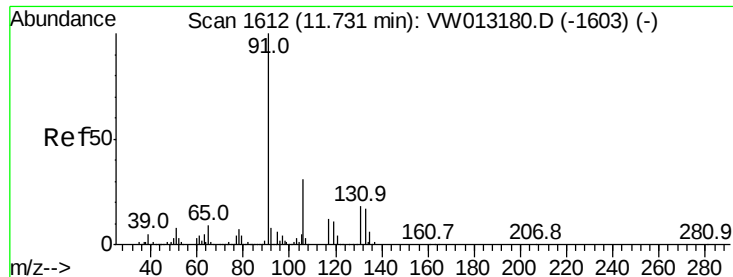
Tot Ion:112 Resp: 1358539  
Ion Ratio Lower Upper  
112 100  
114 31.7 26.5 39.7



#66  
1,1,1,2-Tetrachloroethane  
Concen: 153.767 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion:131 Resp: 478627  
Ion Ratio Lower Upper  
131 100  
133 95.4 47.5 142.6  
119 65.7 32.5 97.5





#67

Ethyl Benzene

Concen: 162.747 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

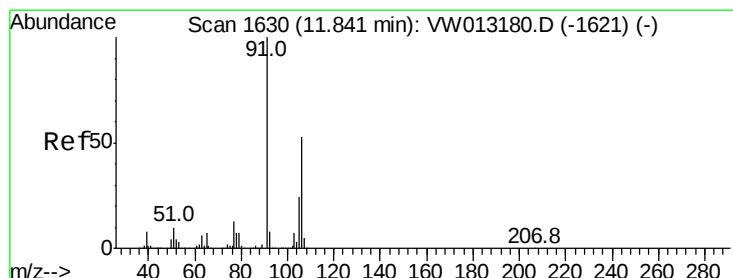
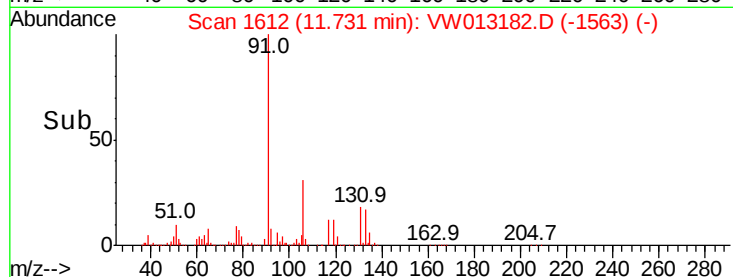
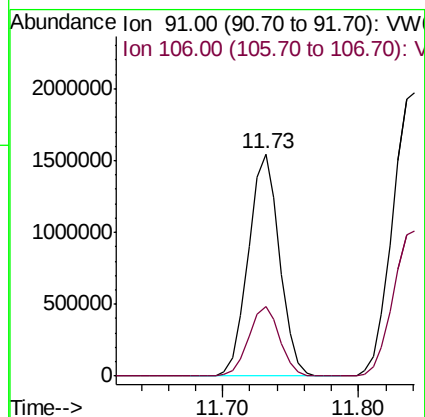
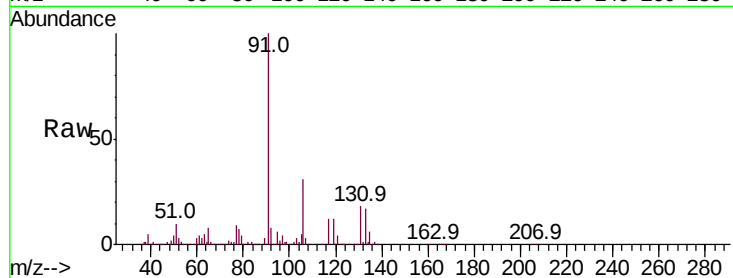
ClientSampled :

Tot Ion: 91 Resp: 2482158

Ion Ratio Lower Upper

91 100

106 31.4 24.9 37.3



#68

m/p-Xylenes

Concen: 337.396 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW013182.D

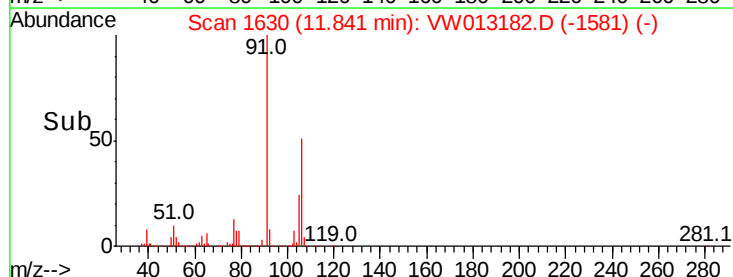
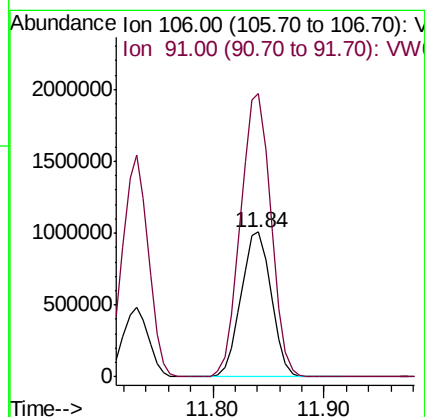
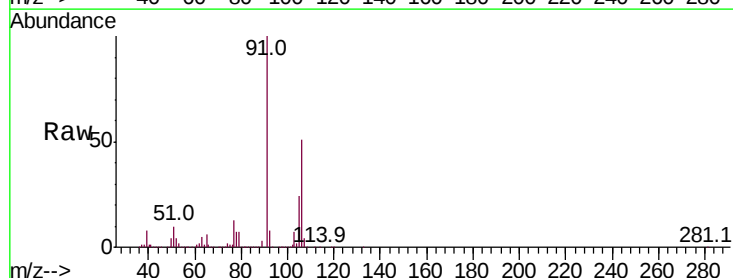
Acq: 20 Sep 2019 14:53

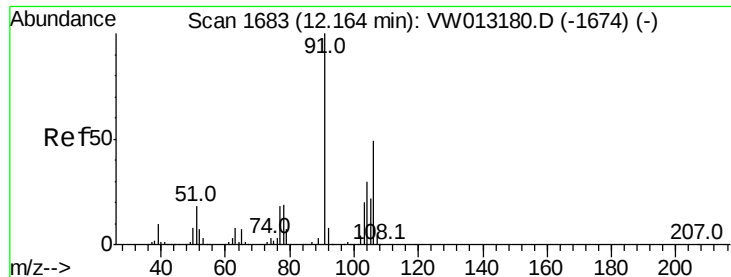
Tgt Ion:106 Resp: 1896284

Ion Ratio Lower Upper

106 100

91 197.0 157.9 236.9

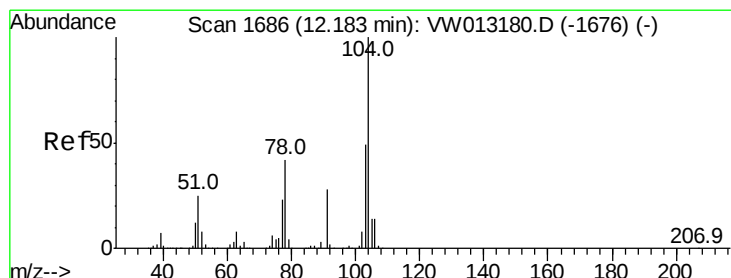
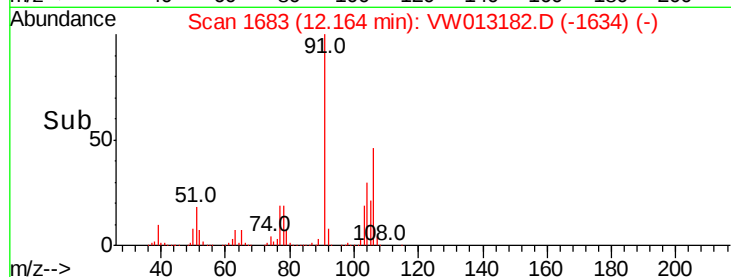
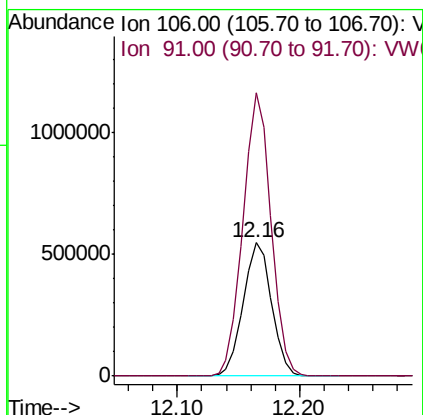
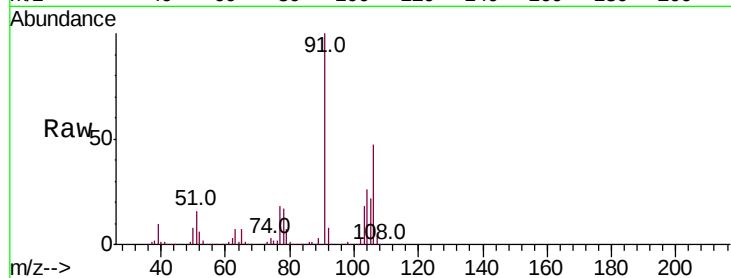




#69  
o-Xylene  
Concen: 167.814 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

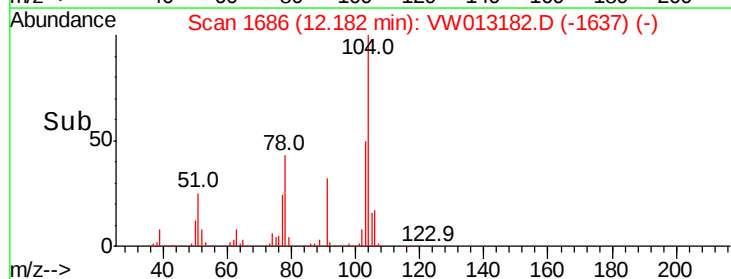
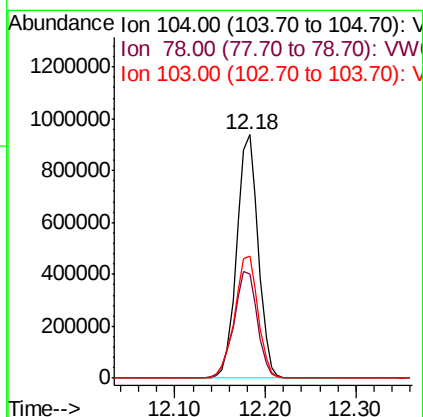
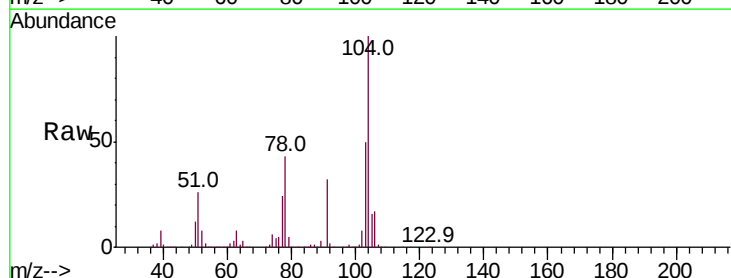
Instrument :  
MSVOA\_W  
ClientSampled :

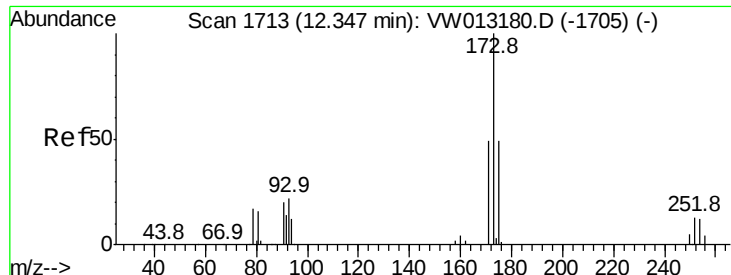
Tot Ion:106 Resp: 881736  
Ion Ratio Lower Upper  
106 100  
91 209.3 106.5 319.5



#70  
Styrene  
Concen: 164.315 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion:104 Resp: 1529950  
Ion Ratio Lower Upper  
104 100  
78 48.1 38.4 57.6  
103 54.7 43.3 64.9





#71

Bromoform

Concen: 161.092 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

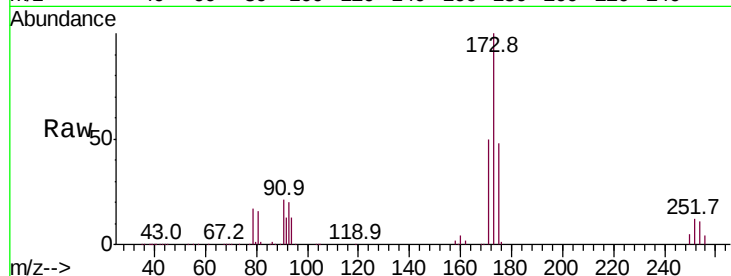
Tot Ion:173 Resp: 261977

Ion Ratio Lower Upper

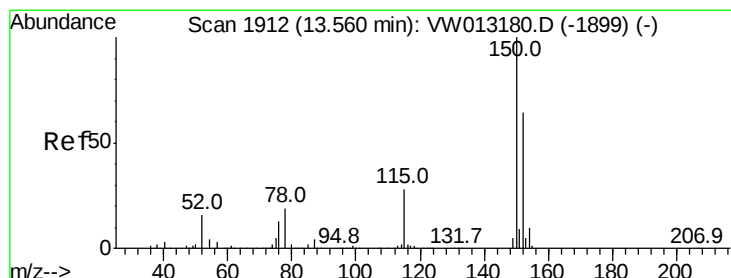
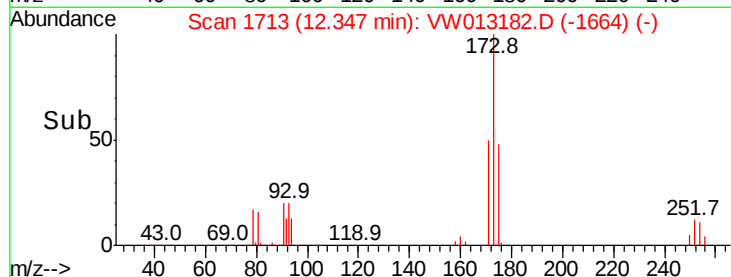
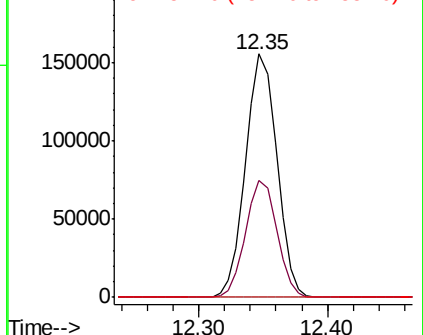
173 100

175 48.2 24.3 73.0

254 0.1 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

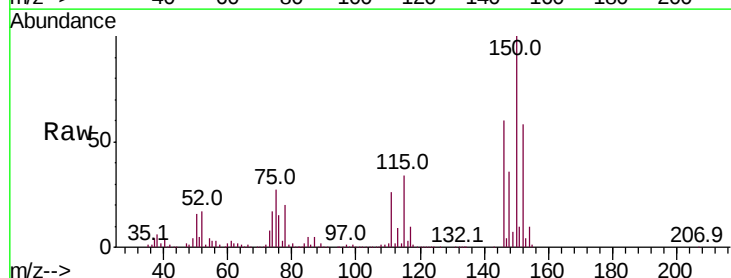
Tgt Ion:152 Resp: 223634

Ion Ratio Lower Upper

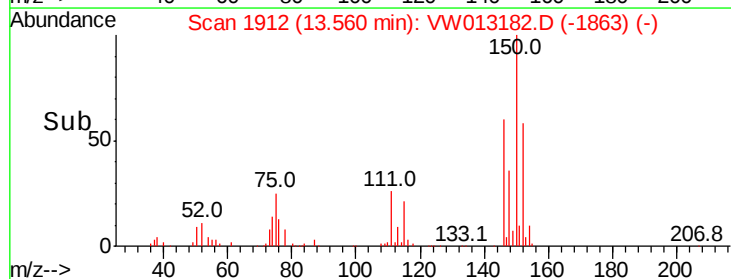
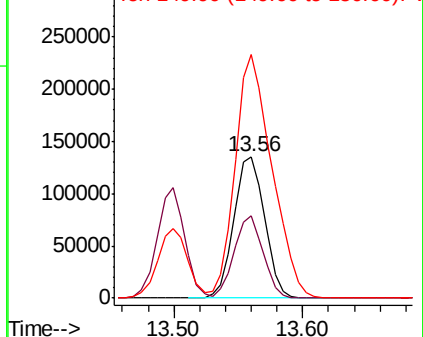
152 100

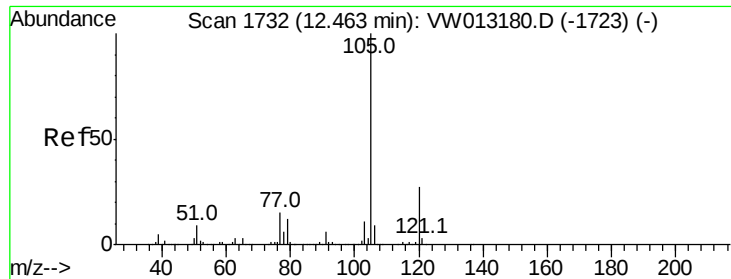
115 54.9 27.3 81.9

150 205.7 0.0 349.0



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





#73

Isopropylbenzene

Concen: 161.071 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

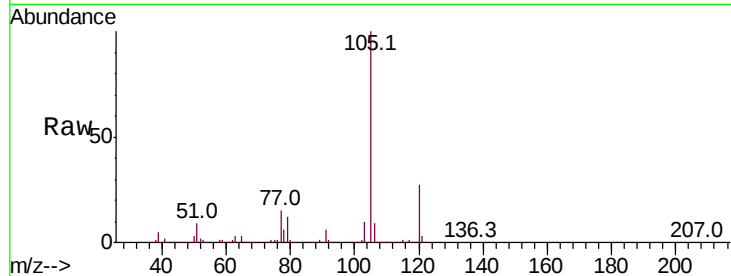
ClientSampleId :

Tot Ion:105 Resp: 2425667

Ion Ratio Lower Upper

105 100

120 26.5 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1500000

1000000

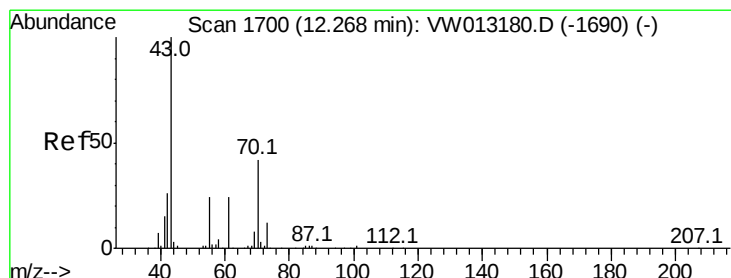
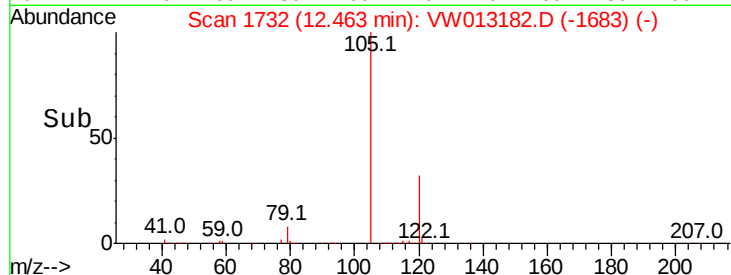
500000

0

12.46

12.40 12.50 12.60

Time-->



#74

N-ethyl acetate

Concen: 150.996 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Tgt Ion: 43 Resp: 570083

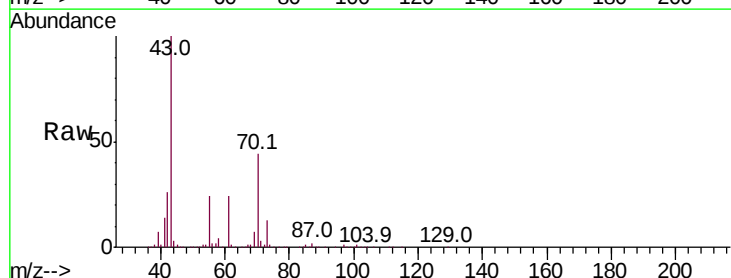
Ion Ratio Lower Upper

43 100

70 43.7 35.1 52.7

55 24.1 19.9 29.9

61 24.9 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

600000

500000

400000

300000

200000

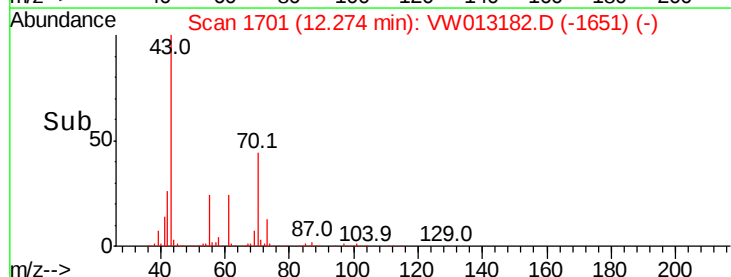
100000

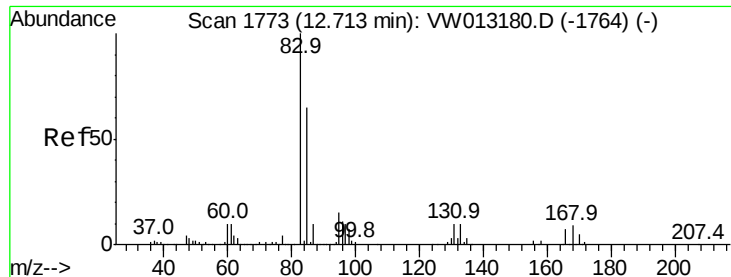
0

12.27

12.20 12.30 12.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 154.370 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

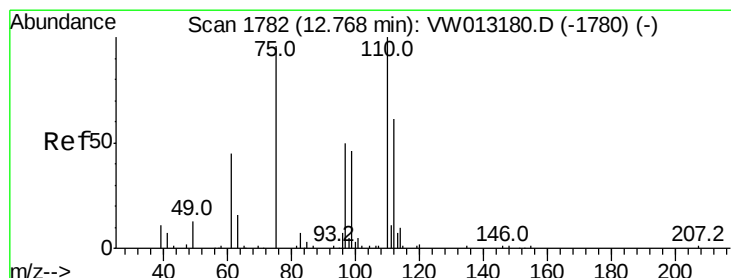
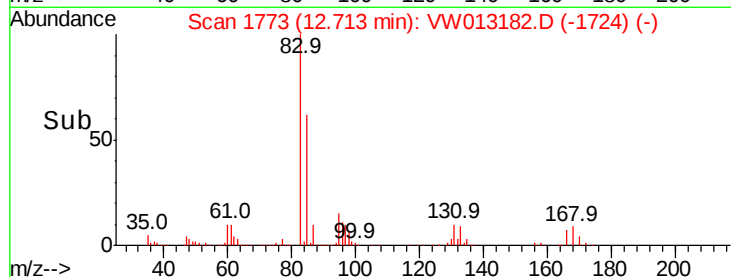
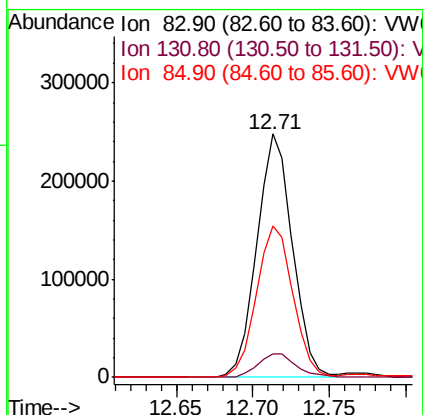
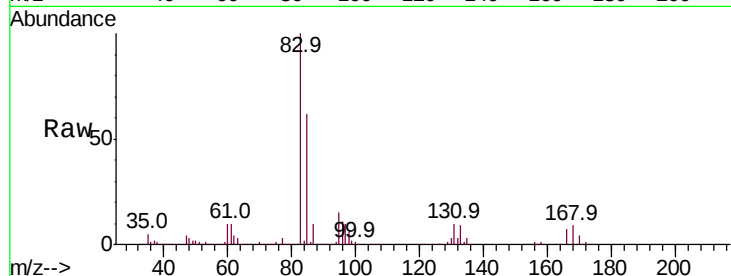
Tot Ion: 83 Resp: 401840

Ion Ratio Lower Upper

83 100

131 10.7 5.4 16.2

85 63.8 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 266.226 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013182.D

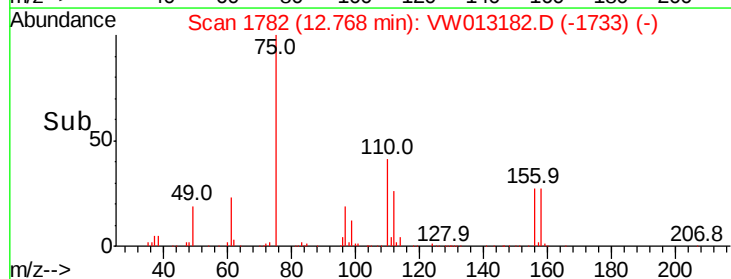
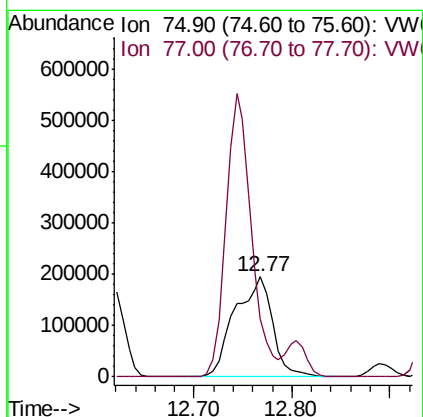
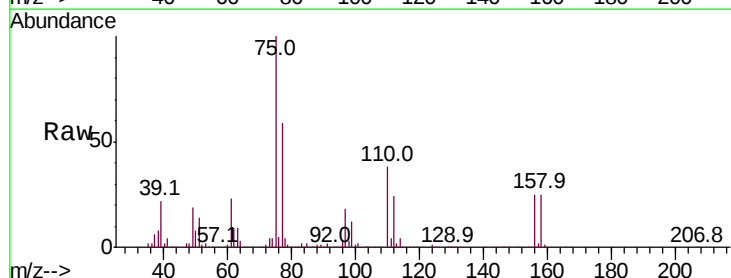
Acq: 20 Sep 2019 14:53

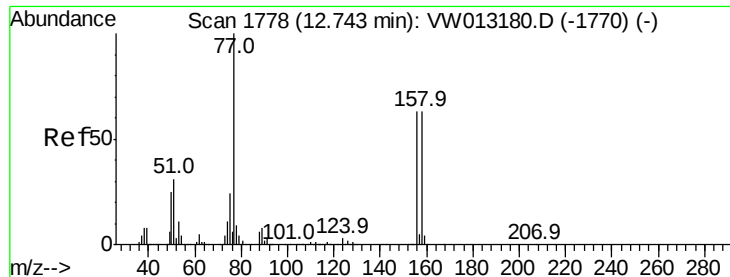
Tgt Ion: 75 Resp: 519399

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 161.387 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

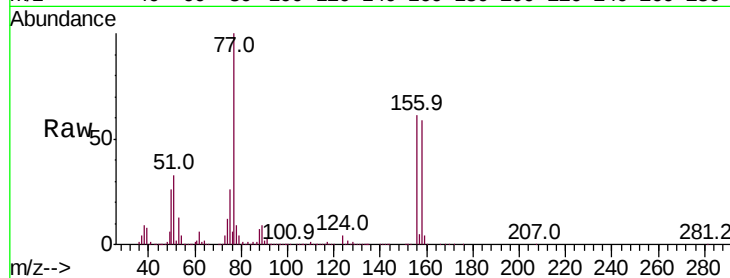
Tot Ion:156 Resp: 566219

Ion Ratio Lower Upper

156 100

77 176.3 85.7 257.1

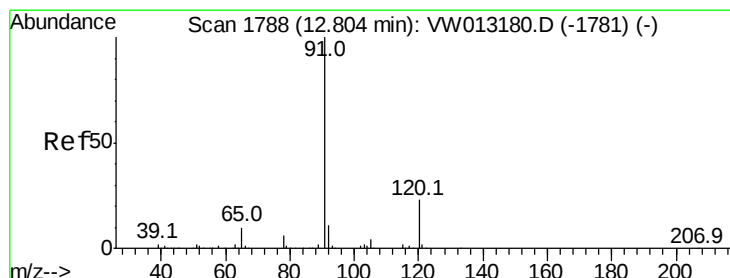
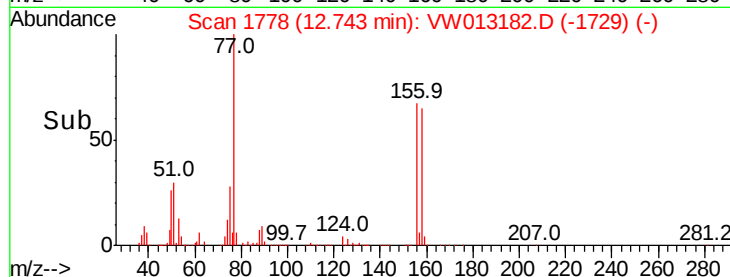
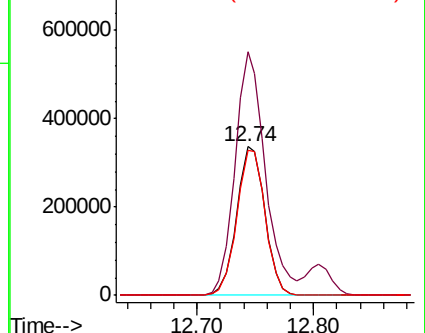
158 98.0 48.1 144.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 159.448 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013182.D

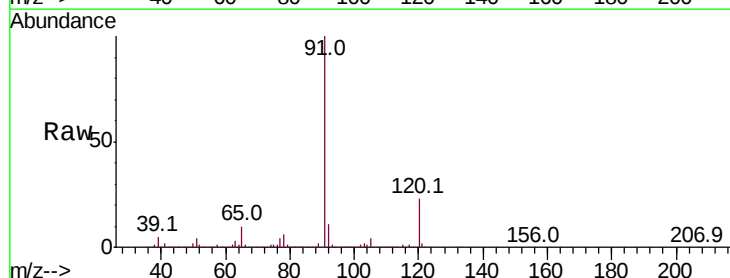
Acq: 20 Sep 2019 14:53

Tgt Ion: 91 Resp: 2822734

Ion Ratio Lower Upper

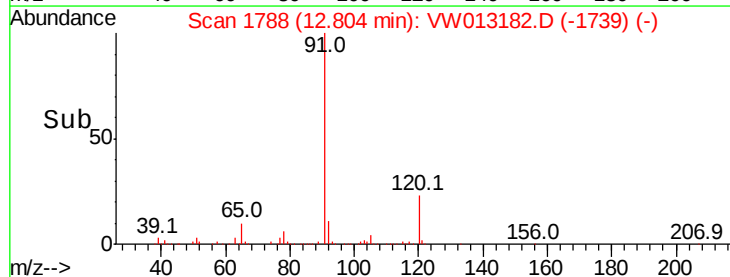
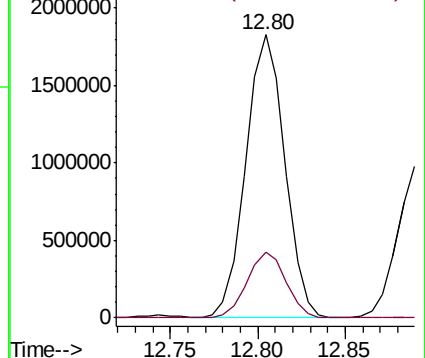
91 100

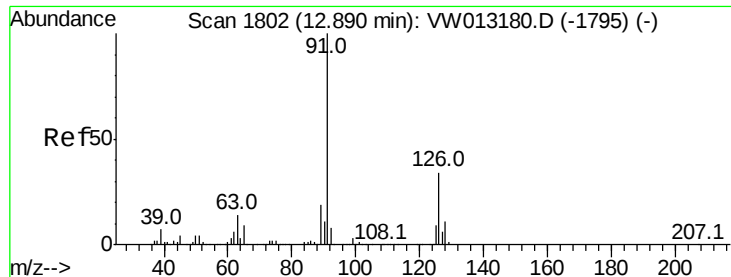
120 23.3 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 155.136 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

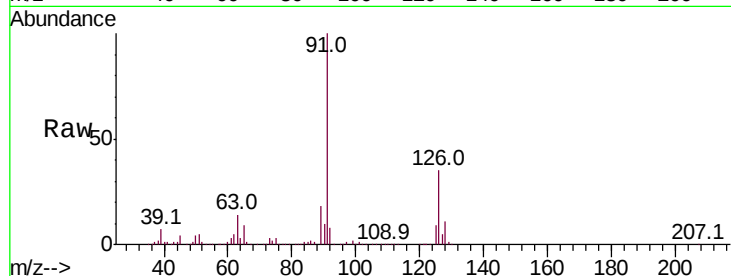
ClientSampleId :

Tot Ion: 91 Resp: 1573394

Ion Ratio Lower Upper

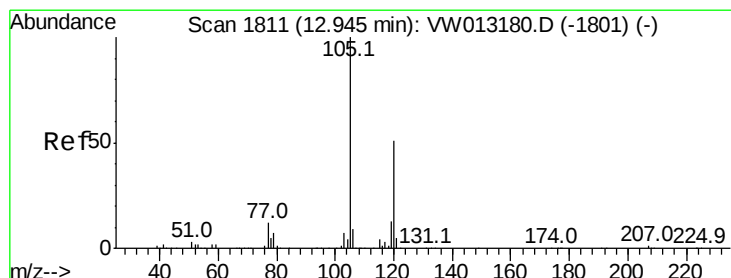
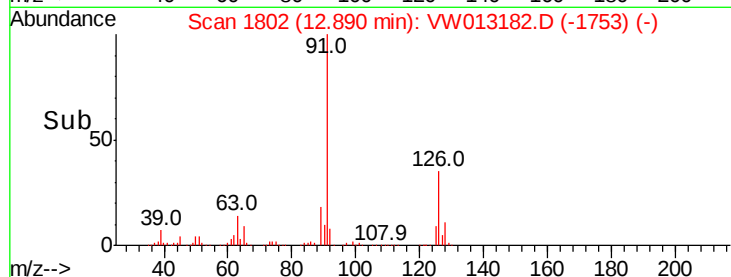
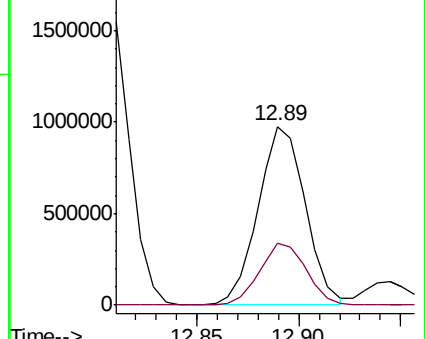
91 100

126 34.6 17.2 51.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 157.681 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013182.D

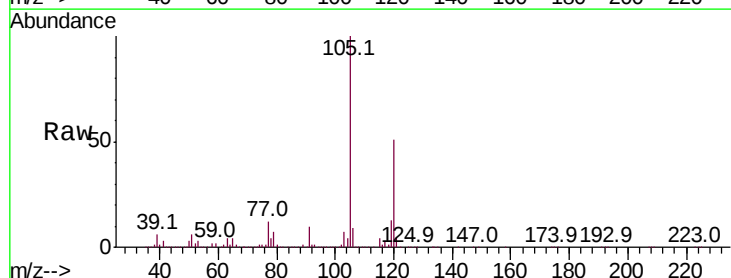
Acq: 20 Sep 2019 14:53

Tgt Ion:105 Resp: 2011549

Ion Ratio Lower Upper

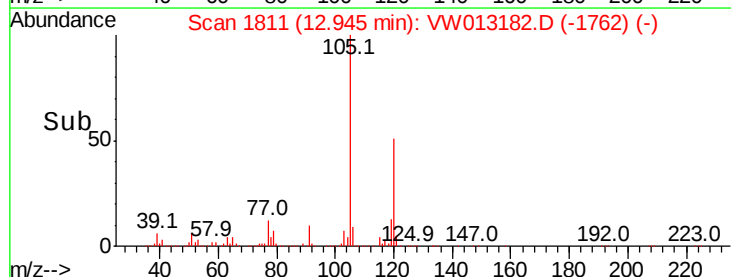
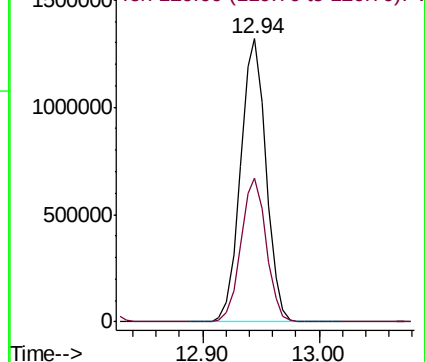
105 100

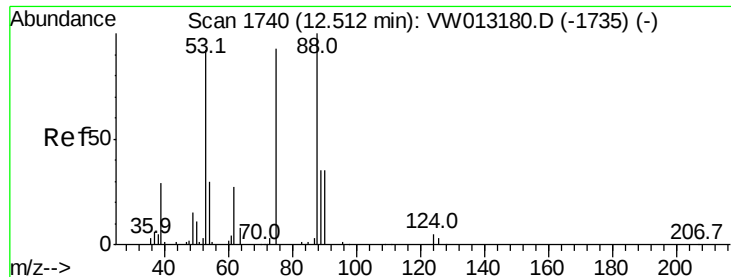
120 50.4 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

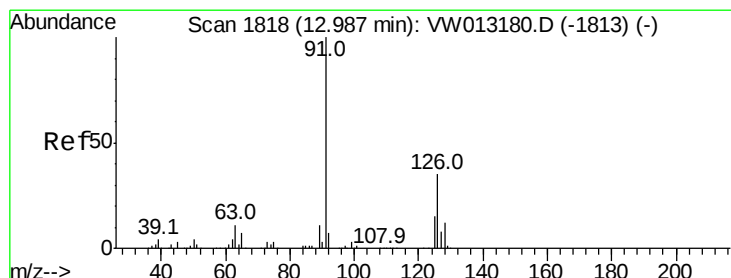
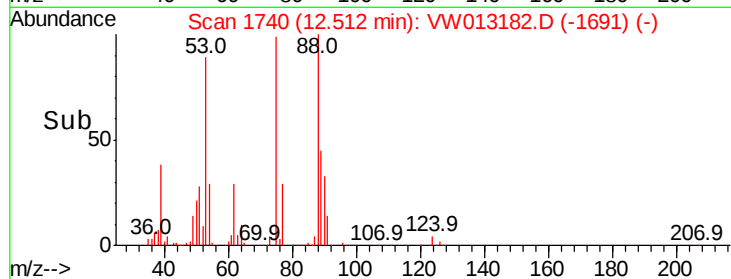
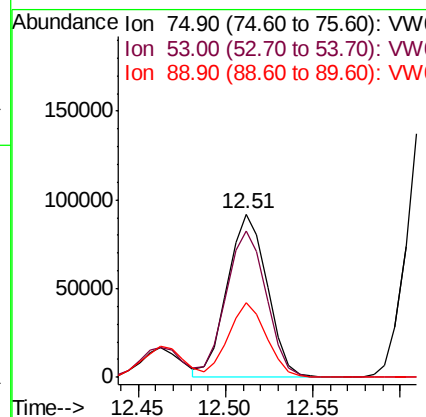
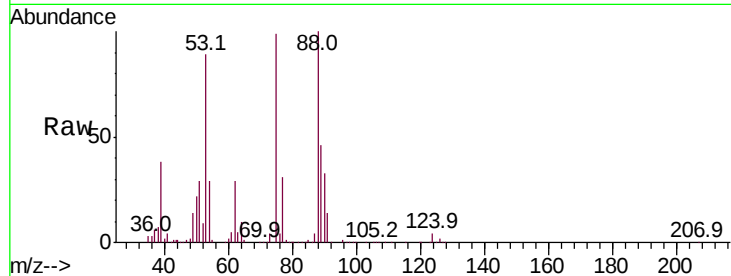




#81  
trans-1,4-Dichloro-2-butene  
Concen: 167.866 ug/l  
RT: 12.51 min Scan# 1740  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

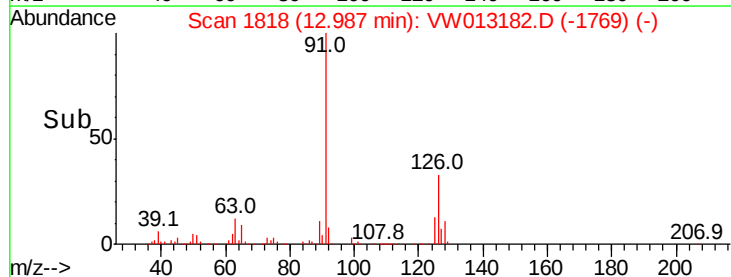
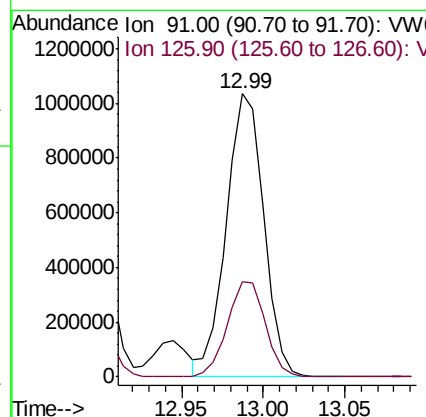
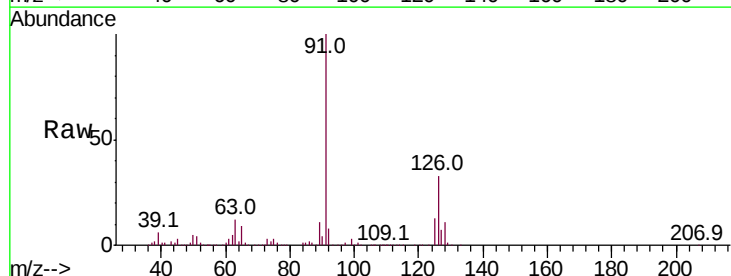
Instrument :  
MSVOA\_W  
ClientSampleId :

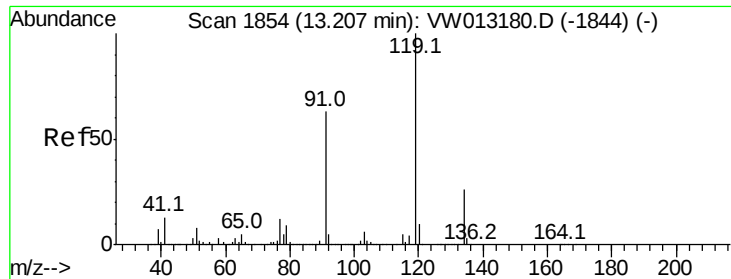
Tot Ion: 75 Resp: 144729  
Ion Ratio Lower Upper  
75 100  
53 90.8 76.6 114.8  
89 43.9 33.5 50.3



#82  
4-Chlorotoluene  
Concen: 155.405 ug/l  
RT: 12.99 min Scan# 1818  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 91 Resp: 1654163  
Ion Ratio Lower Upper  
91 100  
126 34.0 17.3 51.7





#83

tert-Butylbenzene

Concen: 154.764 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampled :

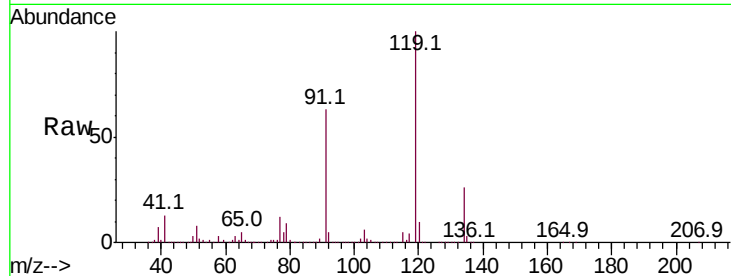
Tot Ion:119 Resp: 1757751

Ion Ratio Lower Upper

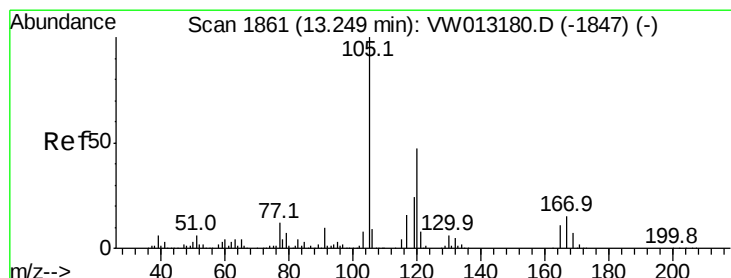
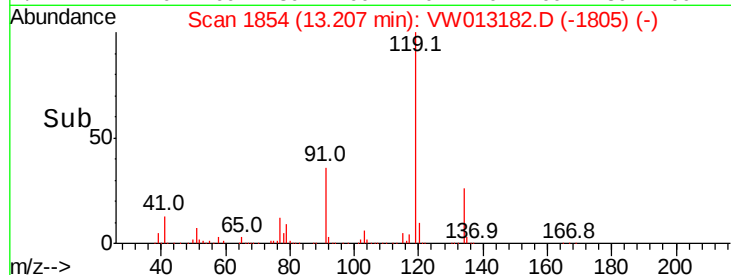
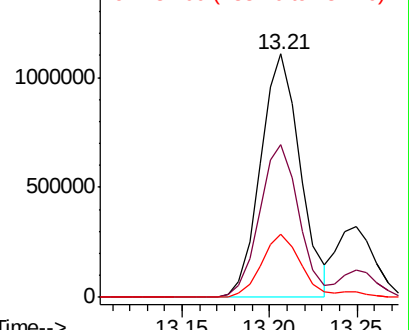
119 100

91 62.0 30.7 92.1

134 25.5 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V  
1500000  
Ion 91.00 (90.70 to 91.70): VW  
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 157.437 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013182.D

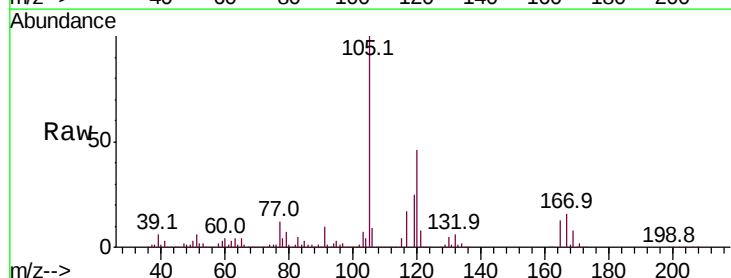
Acq: 20 Sep 2019 14:53

Tgt Ion:105 Resp: 1983487

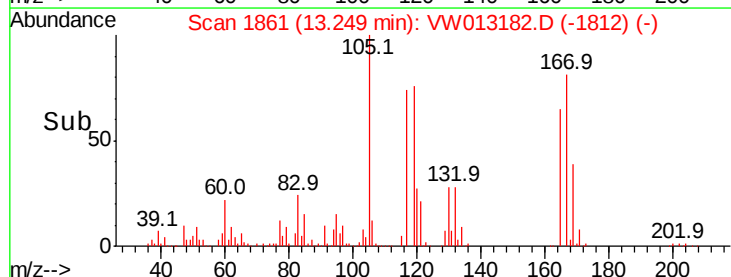
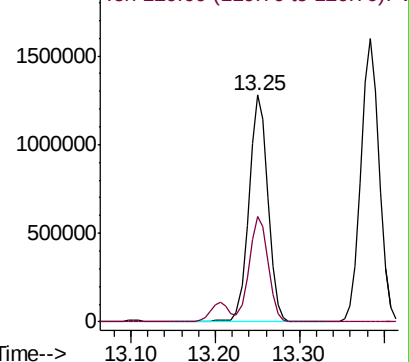
Ion Ratio Lower Upper

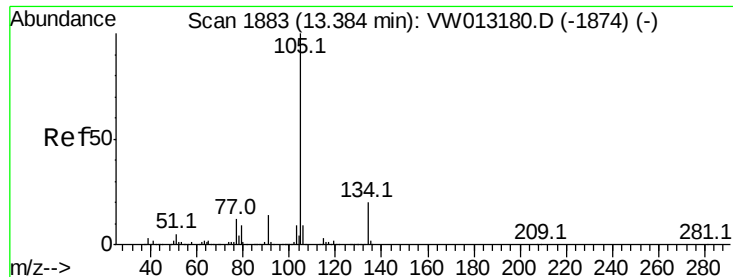
105 100

120 46.0 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V  
1500000  
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 155.427 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

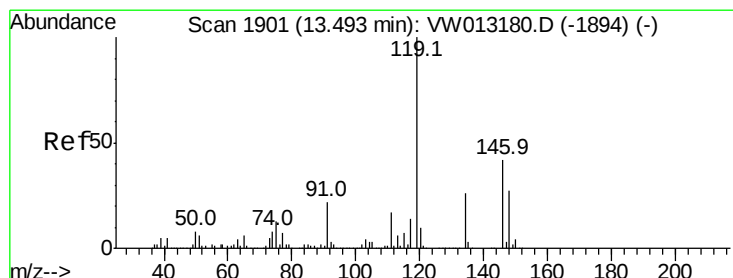
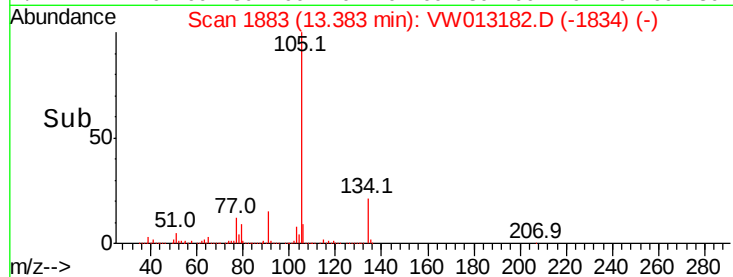
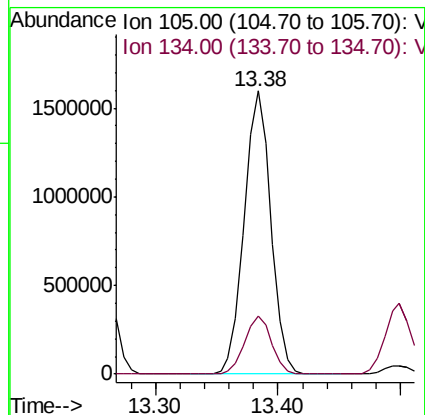
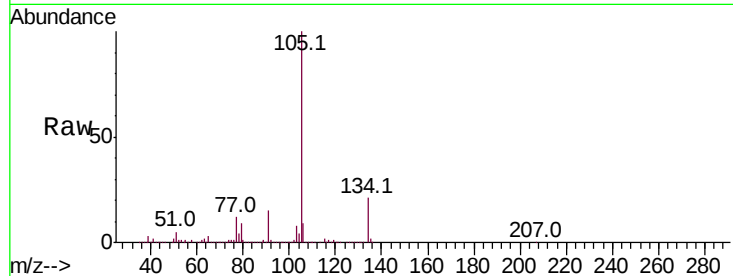
ClientSampleId :

Tot Ion:105 Resp: 2412563

Ion Ratio Lower Upper

105 100

134 20.8 10.3 30.8



#86

p-Isopropyltoluene

Concen: 158.212 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

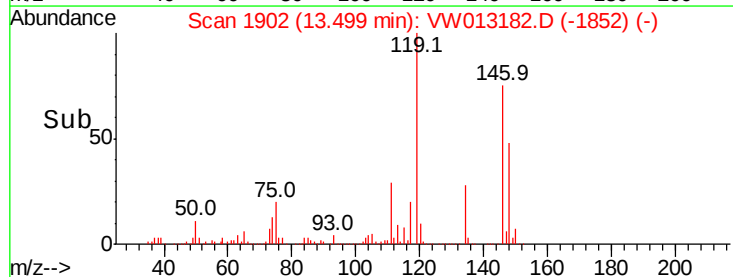
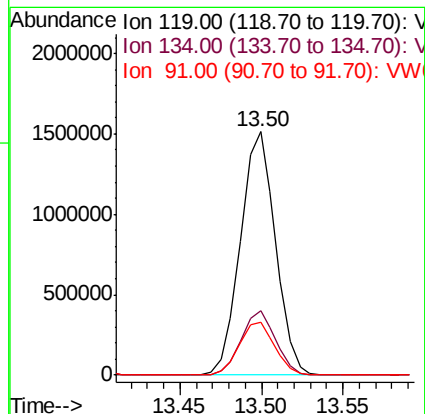
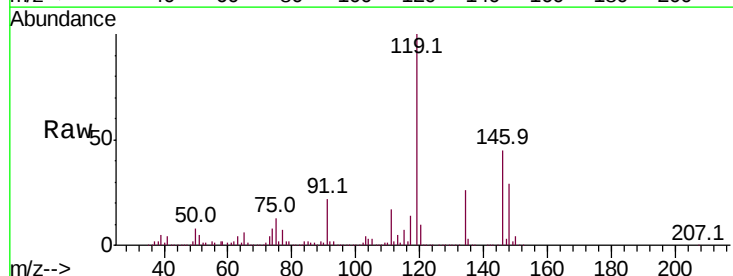
Tgt Ion:119 Resp: 2258108

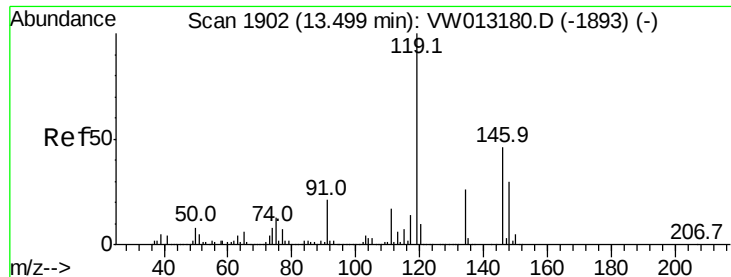
Ion Ratio Lower Upper

119 100

134 26.1 13.3 39.8

91 22.0 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 156.436 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

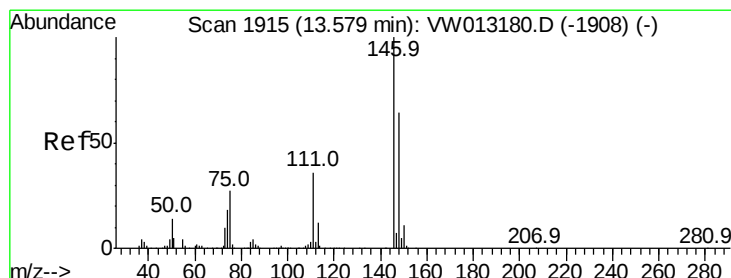
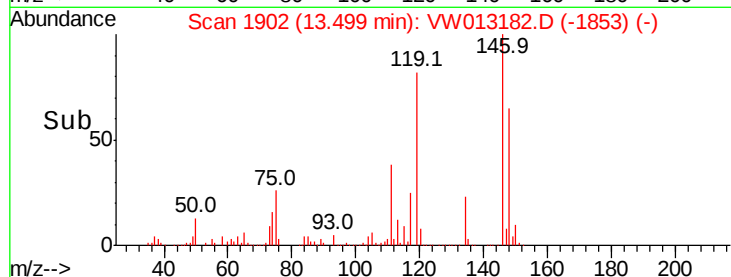
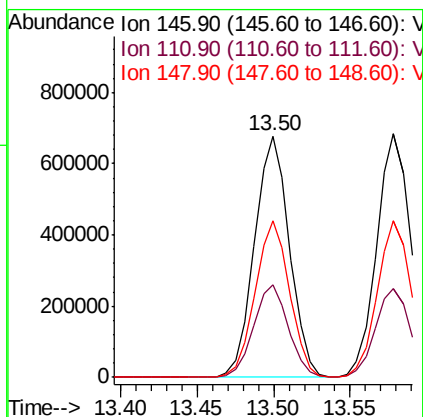
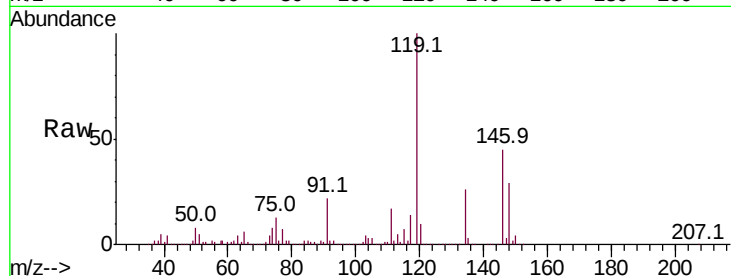
Tot Ion:146 Resp: 1077676

Ion Ratio Lower Upper

146 100

111 38.1 18.9 56.9

148 63.9 31.9 95.5



#88

1,4-Dichlorobenzene

Concen: 157.245 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

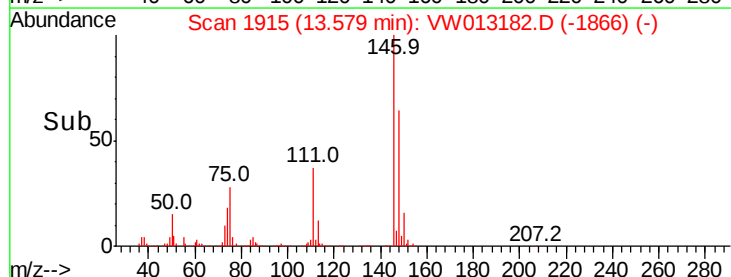
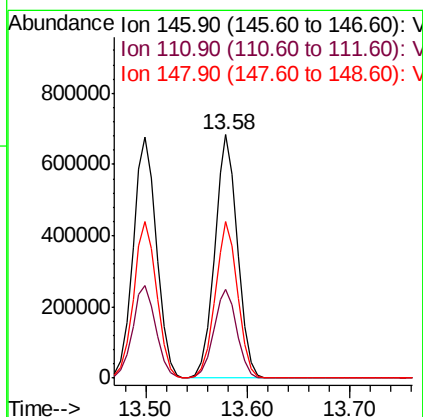
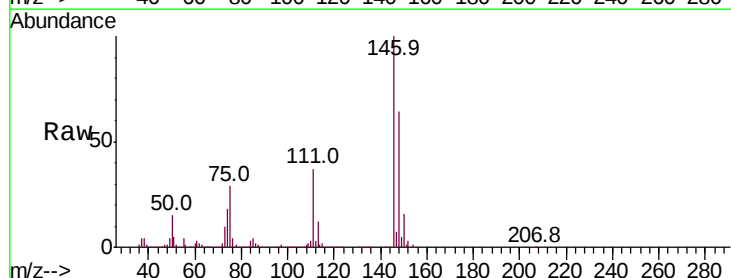
Tgt Ion:146 Resp: 1061959

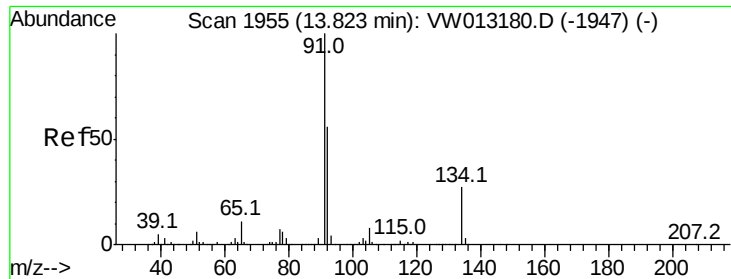
Ion Ratio Lower Upper

146 100

111 37.0 18.4 55.0

148 63.7 32.1 96.3

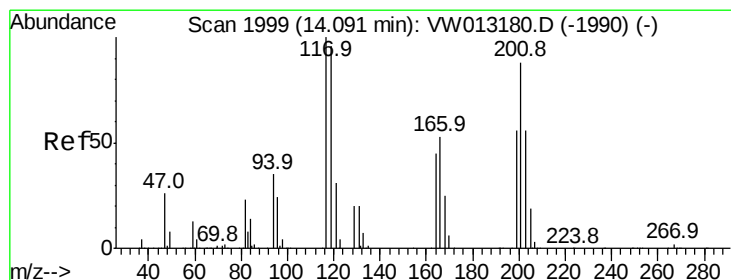
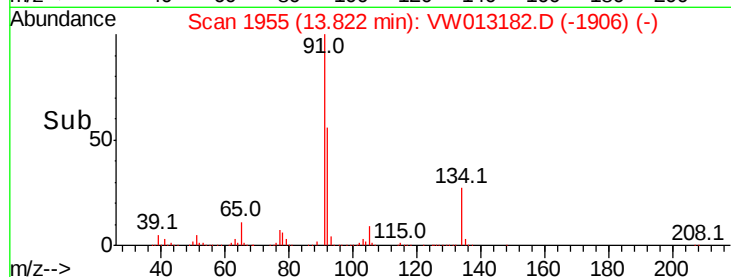
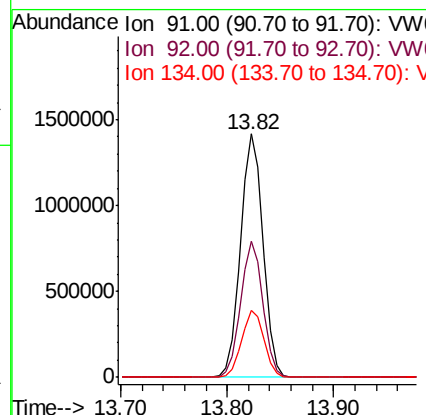
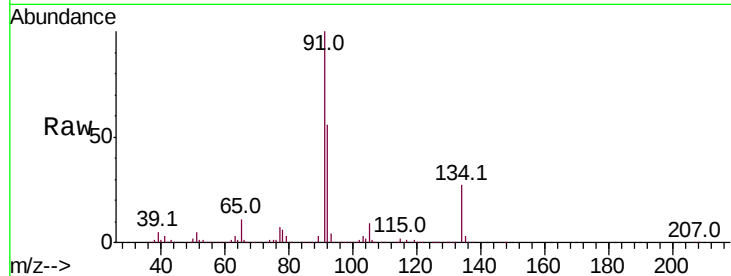




#89  
n-Butylbenzene  
Concen: 156.780 ug/l  
RT: 13.82 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

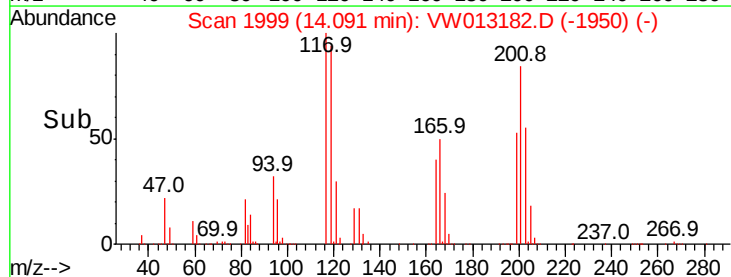
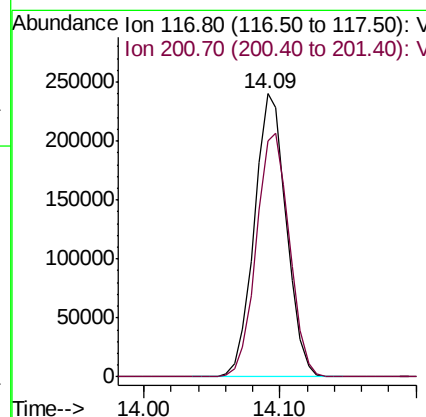
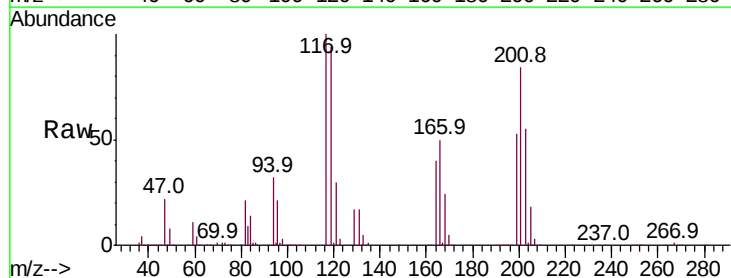
Instrument :  
MSVOA\_W  
ClientSampleId :

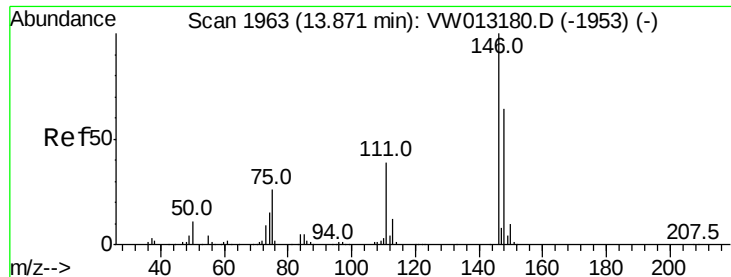
Tot Ion: 91 Resp: 2099115  
Ion Ratio Lower Upper  
91 100  
92 55.3 27.6 82.8  
134 27.5 13.7 41.1



#90  
Hexachloroethane  
Concen: 156.395 ug/l  
RT: 14.09 min Scan# 1999  
Delta R.T. -0.00 min  
Lab File: VW013182.D  
Acq: 20 Sep 2019 14:53

Tgt Ion: 117 Resp: 396859  
Ion Ratio Lower Upper  
117 100  
201 88.8 44.5 133.5





#91

1,2-Dichlorobenzene

Concen: 157.671 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

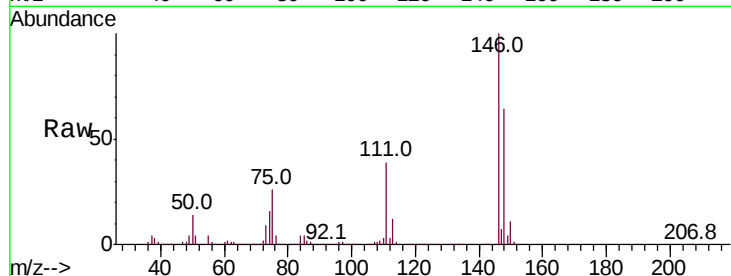
Tot Ion:146 Resp: 952708

Ion Ratio Lower Upper

146 100

111 39.1 20.1 60.3

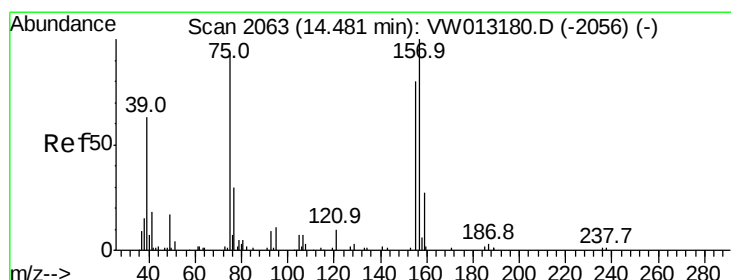
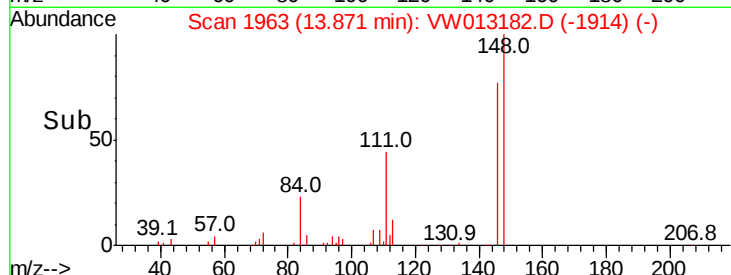
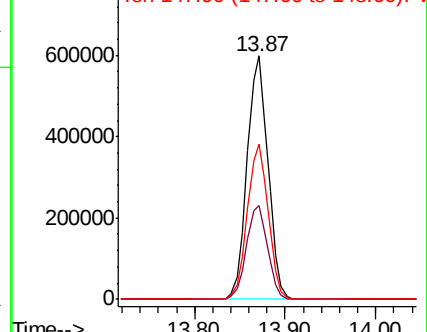
148 63.8 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 138.659 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

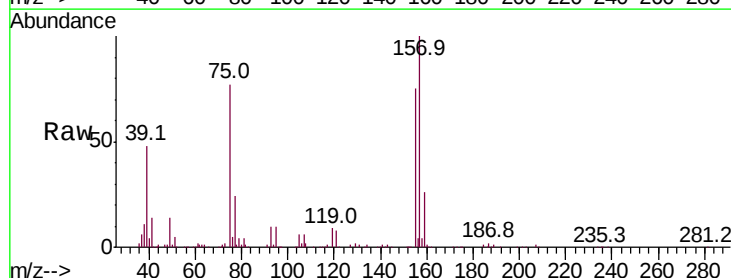
Tgt Ion: 75 Resp: 64923

Ion Ratio Lower Upper

75 100

155 96.1 46.1 138.3

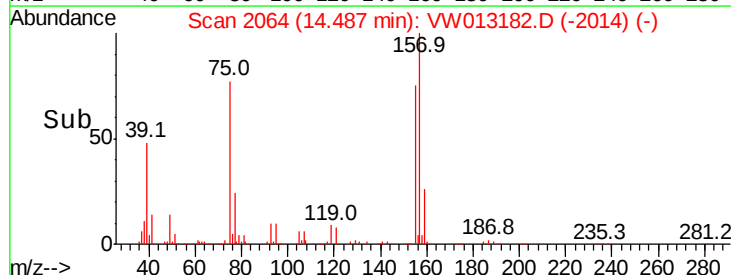
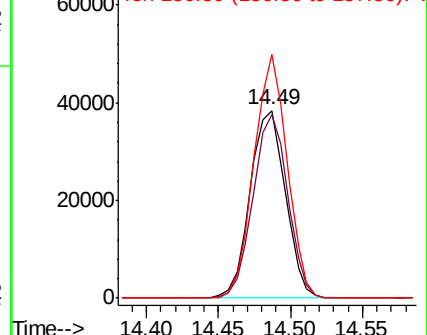
157 122.3 60.4 181.2

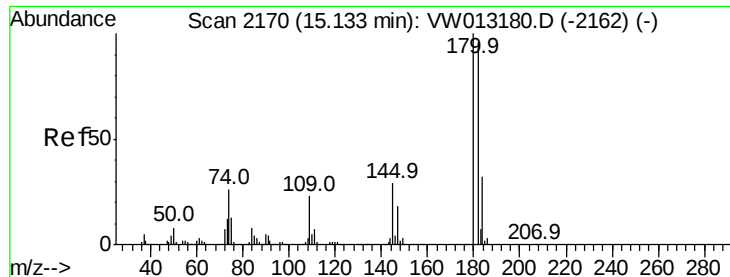


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

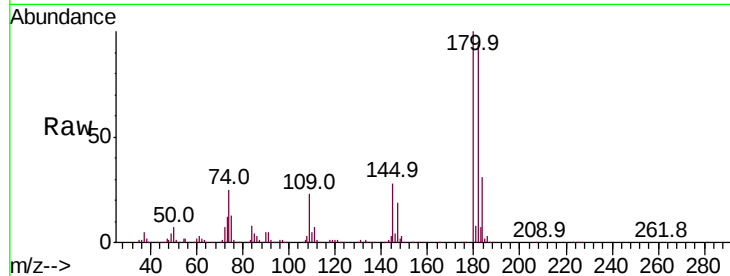




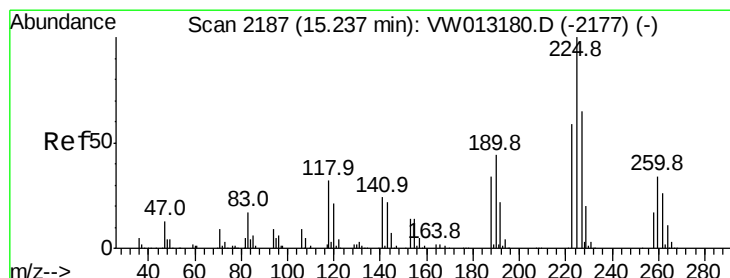
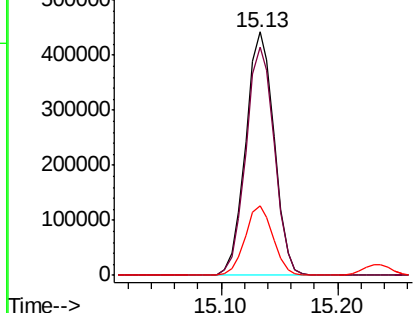
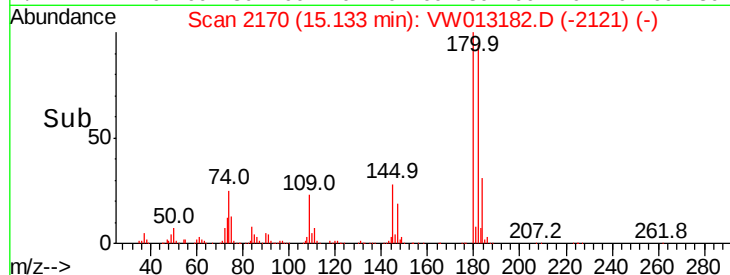
#93  
 1,2,4-Trichlorobenzene  
 Concen: 174.508 ug/l  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.0  | 47.3  | 142.0 |
| 145     | 28.2  | 14.2  | 42.8  |

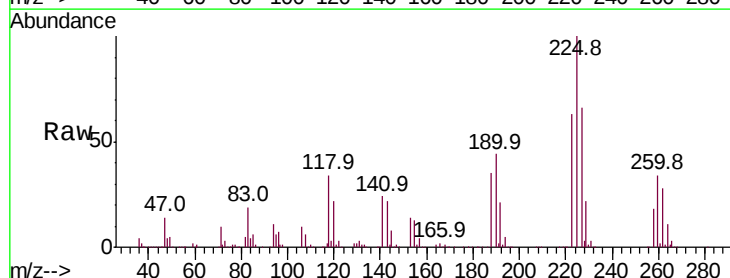


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

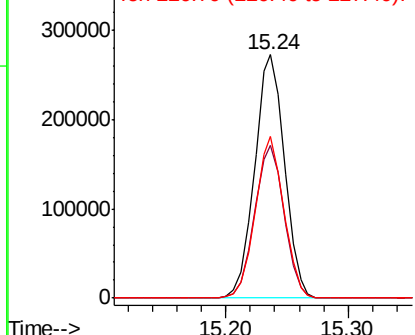
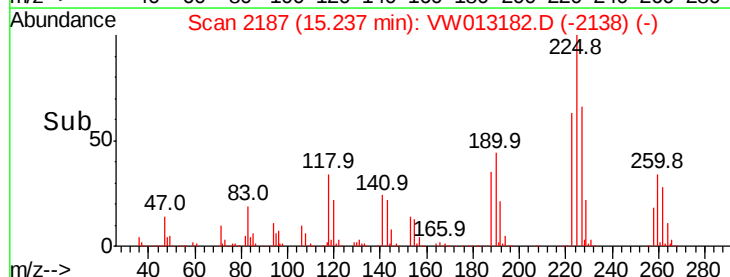


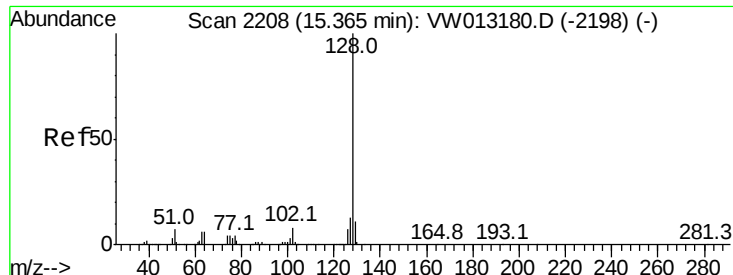
#94  
 Hexachlorobutadiene  
 Concen: 152.648 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.00 min  
 Lab File: VW013182.D  
 Acq: 20 Sep 2019 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.1  | 30.6  | 91.8  |
| 227     | 63.5  | 31.9  | 95.9  |



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





#95

Naphthalene

Concen: 181.561 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

Instrument :

MSVOA\_W

ClientSampleId :

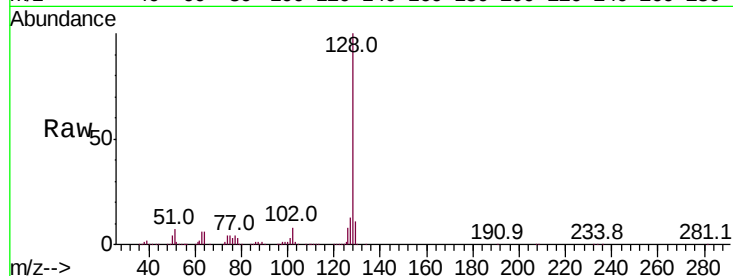
Tot Ion:128 Resp: 1299655

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.1  | 10.6  | 15.8  |
| 129 | 10.9  | 8.7   | 13.1  |

128 100

127 13.1 10.6 15.8

129 10.9 8.7 13.1

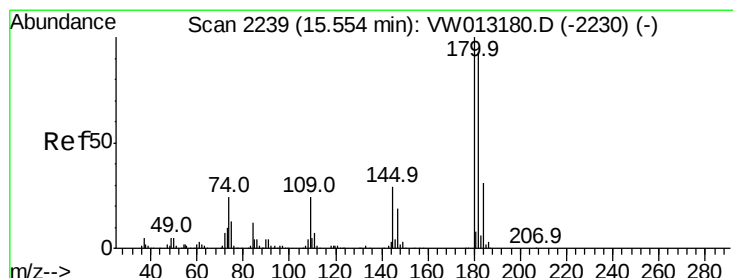
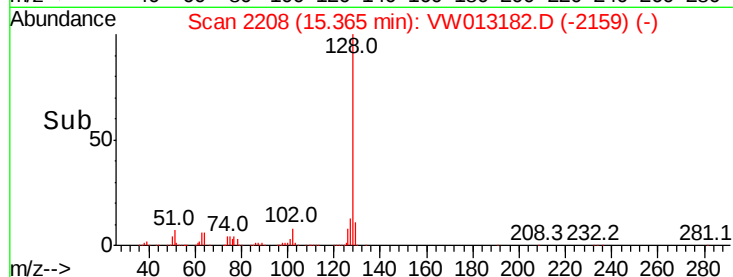
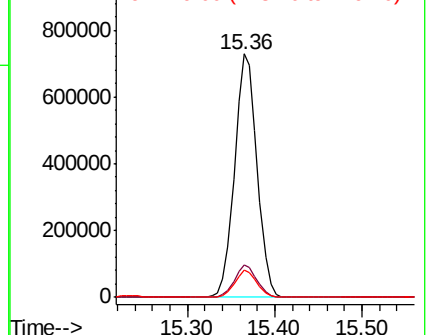


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 169.396 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013182.D

Acq: 20 Sep 2019 14:53

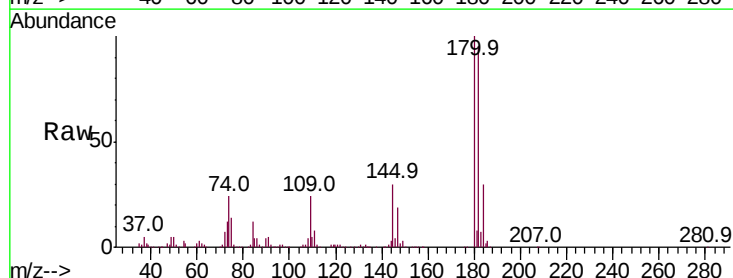
Tgt Ion:180 Resp: 644426

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.1  | 47.9  | 143.7 |
| 145 | 30.2  | 15.0  | 45.0  |

180 100

182 96.1 47.9 143.7

145 30.2 15.0 45.0



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

