

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081718\  
 Data File : VW004703.D  
 Acq On : 15 Aug 2018 19:01  
 Operator : SY/AP  
 Sample : VW0817SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

Quant Time: Aug 16 04:58:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 649668   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 983957   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 936657   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 503059   | 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   | 321505   | 44.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.42%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 324209   | 49.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.84%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 1255847  | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.42% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 453932   | 50.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.76% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 93452    | 20.961 | ug/l  | 100    |
| 3) Chloromethane              | 2.22 | 50   | 119672   | 19.267 | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.37 | 62   | 185287   | 21.355 | ug/l  | 97     |
| 5) Bromomethane               | 2.78 | 94   | 109126   | 21.600 | ug/l  | 96     |
| 6) Chloroethane               | 2.93 | 64   | 109177   | 21.058 | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 76288    | 23.805 | ug/l  | 92     |
| 8) Diethyl Ether              | 3.68 | 74   | 81137    | 20.014 | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 152791   | 21.586 | ug/l  | 98     |
| 10) Methyl Iodide             | 4.27 | 142  | 220650   | 20.777 | ug/l  | 100    |
| 11) Tert butyl alcohol        | 5.20 | 59   | 40196    | 95.459 | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 148148   | 20.794 | ug/l  | 94     |
| 13) Acrolein                  | 3.89 | 56   | 44706    | 86.651 | ug/l  | 98     |
| 14) Allyl chloride            | 4.67 | 41   | 216975   | 20.270 | ug/l  | 100    |
| 15) Acrylonitrile             | 5.37 | 53   | 169976   | 94.351 | ug/l  | 99     |
| 16) Acetone                   | 4.13 | 43   | 171547   | 95.517 | ug/l  | 99     |
| 17) Carbon Disulfide          | 4.37 | 76   | 472504   | 20.637 | ug/l  | 98     |
| 18) Methyl Acetate            | 4.67 | 43   | 79861    | 17.832 | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 191367   | 19.692 | ug/l  | 98     |
| 20) Methylene Chloride        | 4.92 | 84   | 188822   | 15.393 | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 156132   | 20.336 | ug/l  | 100    |
| 22) Diisopropyl ether         | 6.32 | 45   | 454147   | 20.646 | ug/l  | 99     |
| 23) Vinyl Acetate             | 6.26 | 43   | 1246296  | 94.272 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 285757   | 20.295 | ug/l  | 99     |
| 25) 2-Butanone                | 7.18 | 43   | 257152   | 89.011 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 155099   | 20.988 | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 170522   | 20.643 | ug/l  | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 118900   | 19.409 | ug/l  | 97     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 131183   | 87.834 | ug/l  | 99     |
| 30) Chloroform                | 7.68 | 83   | 282227   | 20.408 | ug/l  | 98     |
| 31) Cyclohexane               | 7.96 | 56   | 267157   | 19.831 | ug/l  | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 218586   | 21.042 | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 228534   | 21.571 | ug/l  | 100    |
| 37) Ethyl Acetate             | 7.26 | 43   | 91111    | 18.362 | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 206424   | 21.652 | ug/l  | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 273076   | 21.029  | ug/l   | 100      |
| 40) Benzene                    | 8.32  | 78   | 661087   | 21.249  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 49539    | 17.875  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 173655   | 20.175  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 158620   | 18.339  | ug/l   | 97       |
| 44) Trichloroethene            | 9.10  | 130  | 162998   | 21.321  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 160187   | 20.560  | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 80262    | 20.236  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 190104   | 20.305  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 75186    | 18.599  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 23578    | 389.645 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 564973   | 93.843  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 398636   | 21.729  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 187272   | 19.921  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 223774   | 20.425  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 115101   | 20.247  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 128372   | 18.861  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 198582   | 20.267  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 323088   | 95.131  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 378763   | 92.792  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 126077   | 20.390  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 107628   | 20.152  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 139823   | 21.399  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 440497   | 21.340  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 146585   | 20.858  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 746013   | 21.319  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 594228   | 43.941  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 270648   | 21.580  | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 465211   | 21.954  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 76951    | 19.918  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 748817   | 21.520  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 154338   | 18.292  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 141018   | 19.414  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 177367   | 34.073  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 180812   | 21.477  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.81 | 91   | 935245   | 21.782  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 528057   | 21.252  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 650476   | 21.914  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 38851    | 17.866  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 572801   | 21.722  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 540720   | 21.718  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 679631   | 22.118  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 821111   | 21.861  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 716872   | 22.026  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 373317   | 21.521  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 371301   | 21.502  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 686849   | 21.478  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 126411   | 20.992  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 334681   | 21.266  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 22032    | 18.562  | ug/l   | 99       |

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Sample : VW0817SBS01  
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ALS Vial : 7 Sample Multiplier: 1

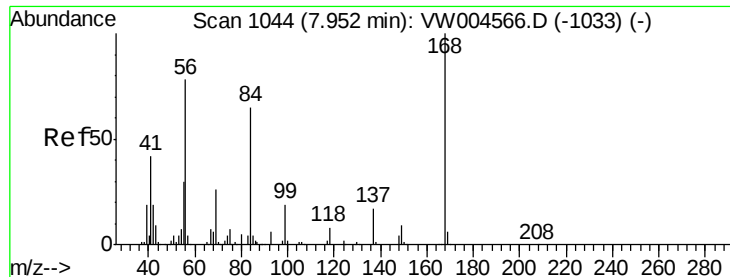
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

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Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 235673   | 21.630 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 143216   | 22.573 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 393361   | 19.388 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 211781   | 21.629 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

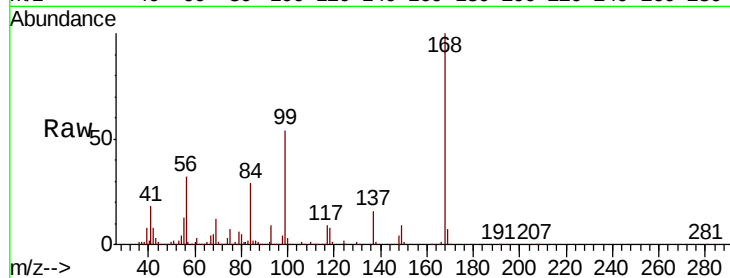
VW0817SBS01

Tot Ion:168 Resp: 649668

Ion Ratio Lower Upper

168 100

99 54.2 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

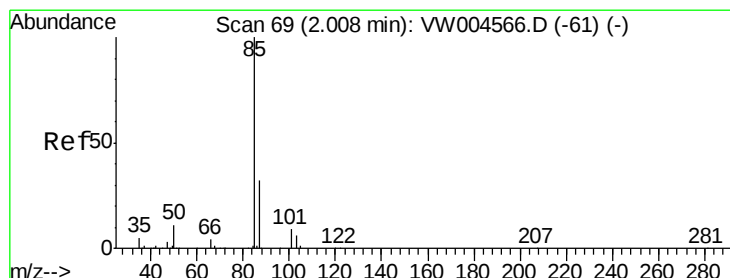
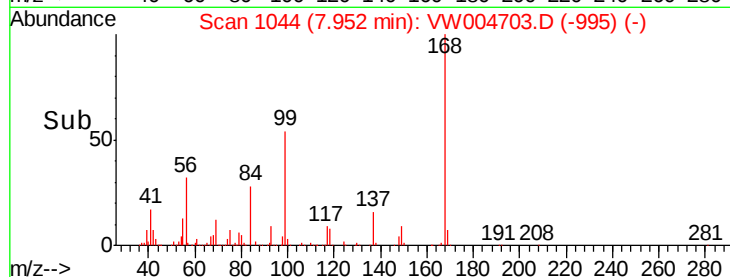
300000

200000

100000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 20.961 ug/l

RT: 2.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VW004703.D

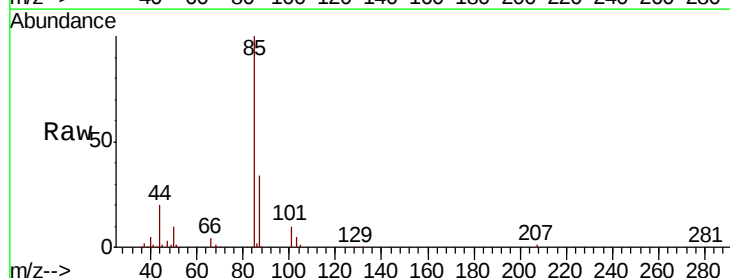
Acq: 15 Aug 2018 19:01

Tgt Ion: 85 Resp: 93452

Ion Ratio Lower Upper

85 100

87 33.6 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

30000

25000

20000

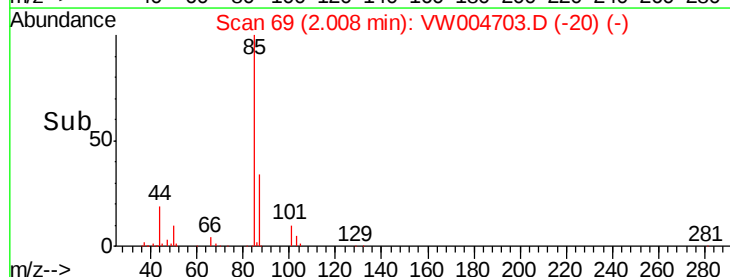
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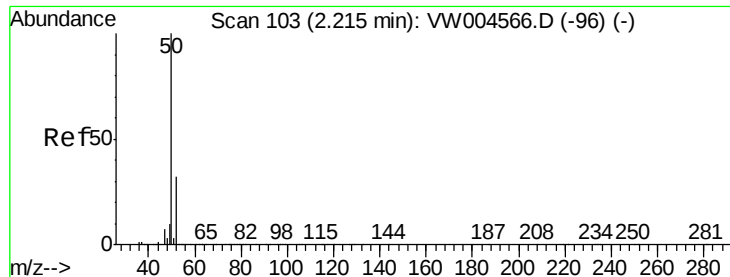
10000

5000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 19.267 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

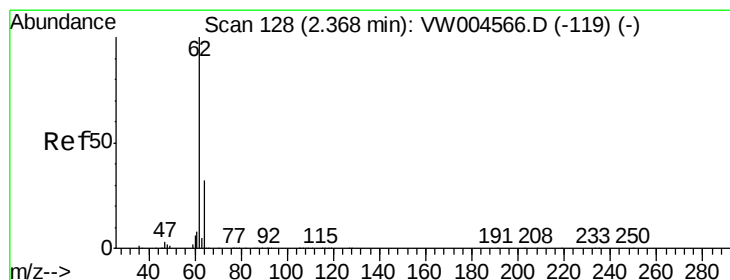
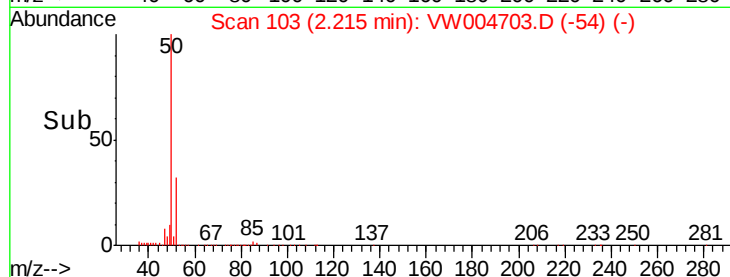
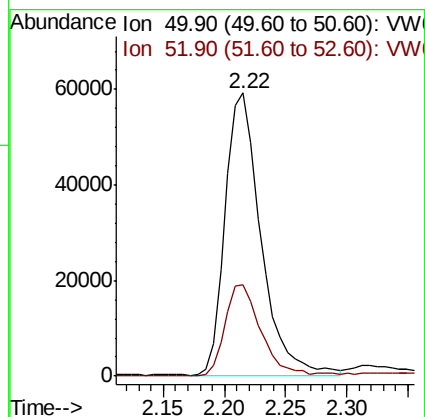
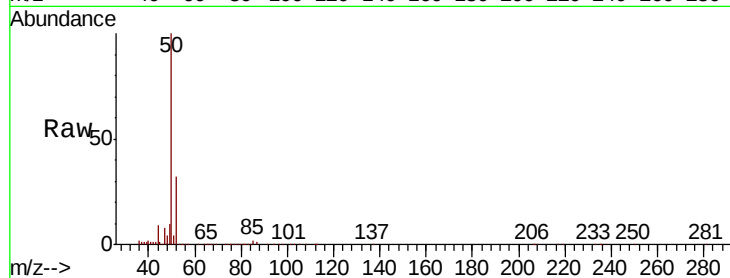
VW0817SBS01

Tot Ion: 50 Resp: 119672

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.8



#4

Vinyl Chloride

Concen: 21.355 ug/l

RT: 2.37 min Scan# 128

Delta R.T. 0.00 min

Lab File: VW004703.D

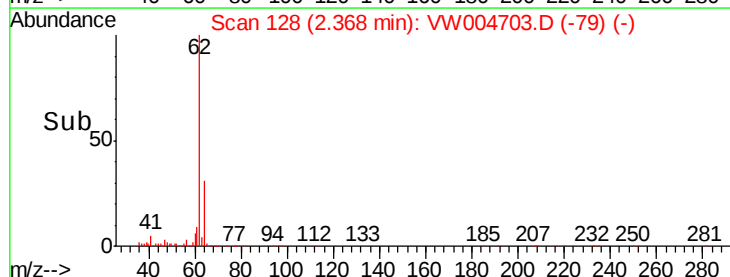
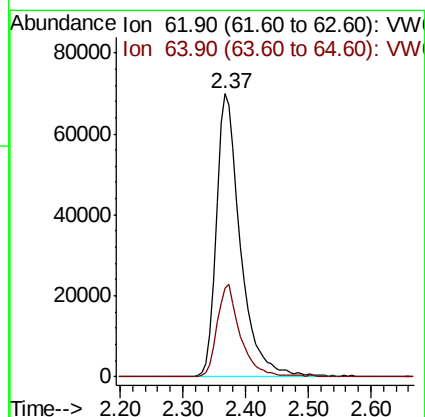
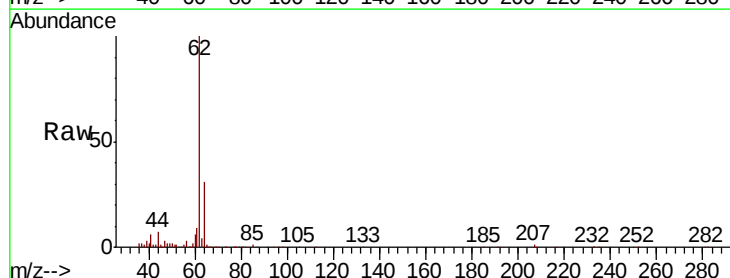
Acq: 15 Aug 2018 19:01

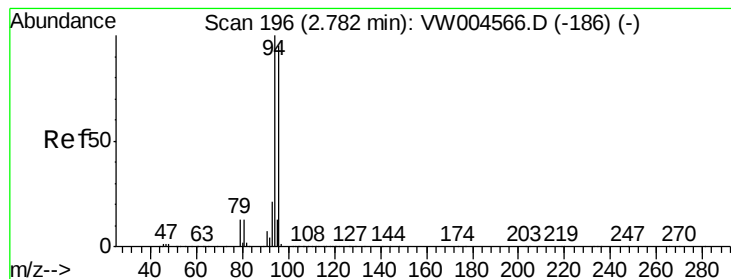
Tgt Ion: 62 Resp: 185287

Ion Ratio Lower Upper

62 100

64 31.1 26.2 39.2





#5

Bromomethane

Concen: 21.600 ug/l

RT: 2.78 min Scan# 195

Delta R.T. -0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

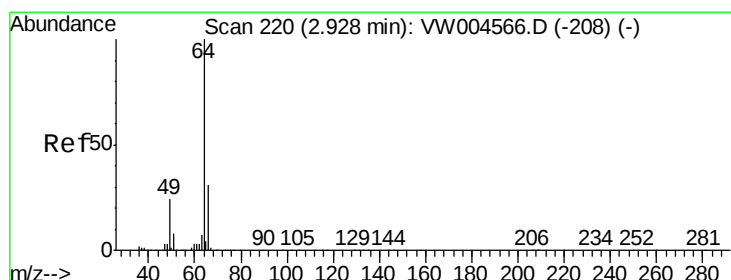
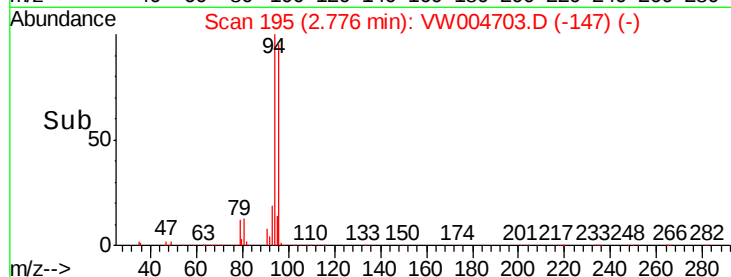
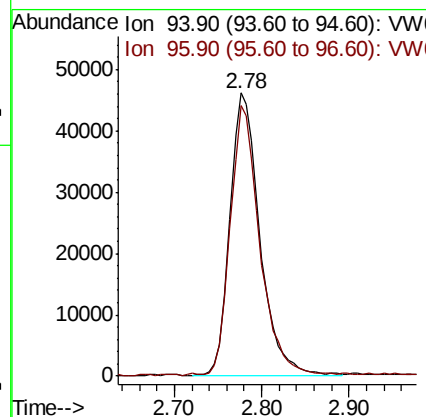
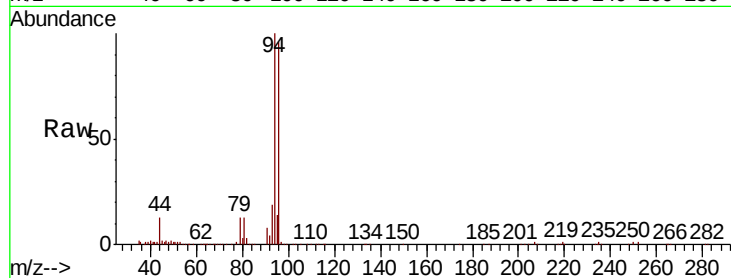
VW0817SBS01

Tot Ion: 94 Resp: 109126

Ion Ratio Lower Upper

94 100

96 94.9 72.9 109.3



#6

Chloroethane

Concen: 21.058 ug/l

RT: 2.93 min Scan# 220

Delta R.T. 0.01 min

Lab File: VW004703.D

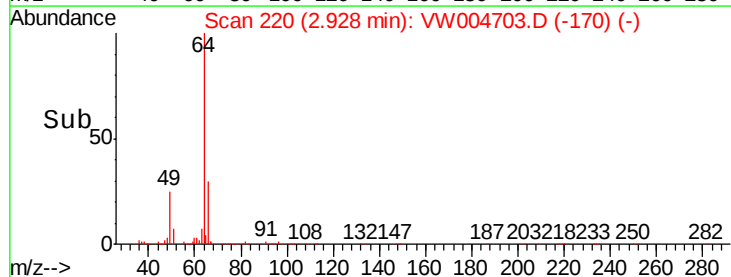
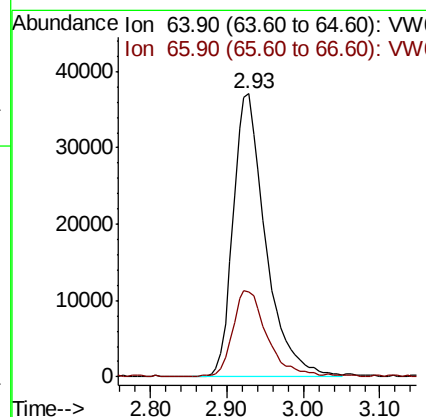
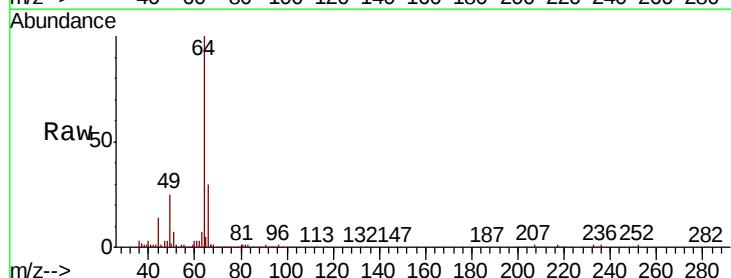
Acq: 15 Aug 2018 19:01

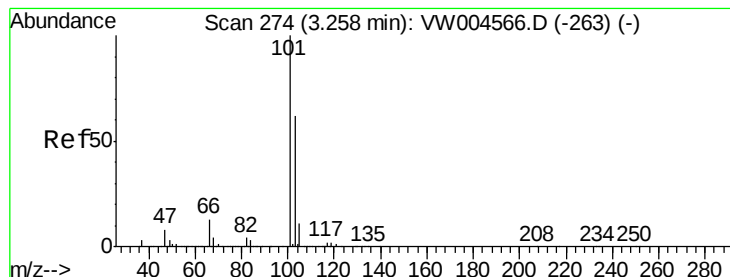
Tgt Ion: 64 Resp: 109177

Ion Ratio Lower Upper

64 100

66 29.7 24.6 36.8



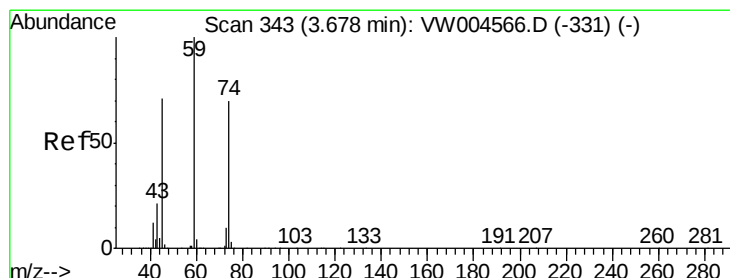
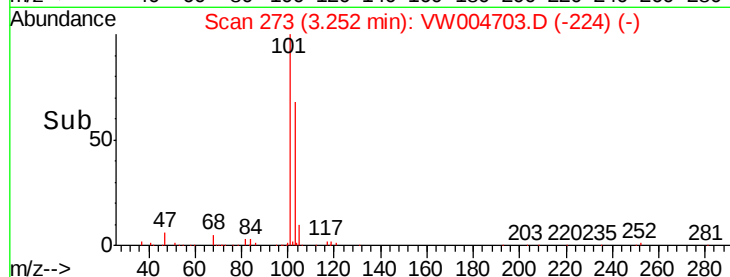
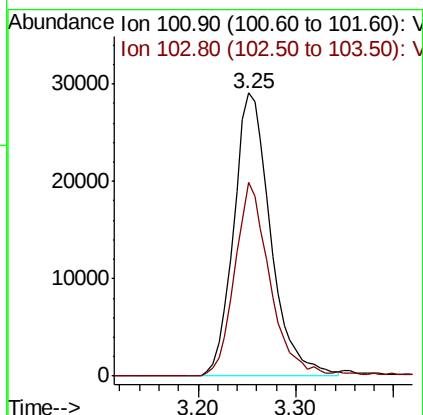
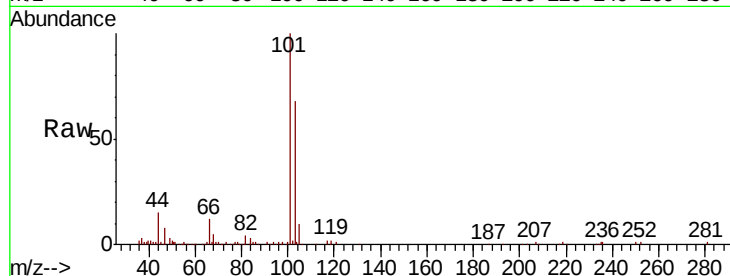


#7

Trichlorofluoromethane  
 Concen: 23.805 ug/l  
 RT: 3.25 min Scan# 273  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
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Instrument :  
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 VW0817SBS01

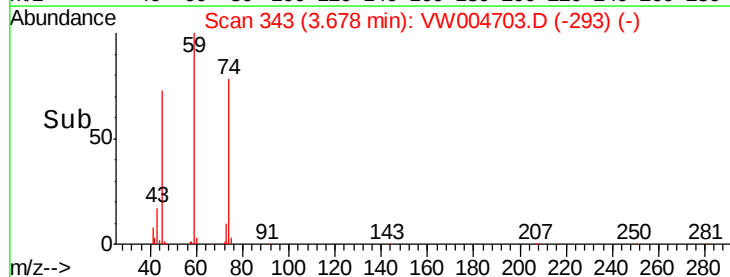
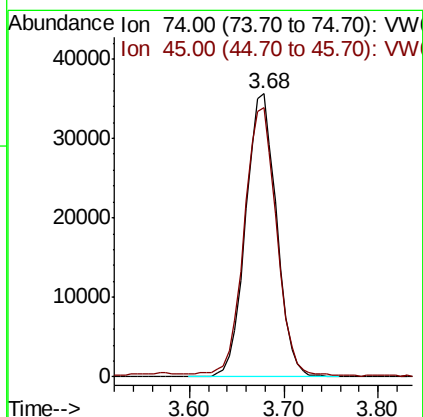
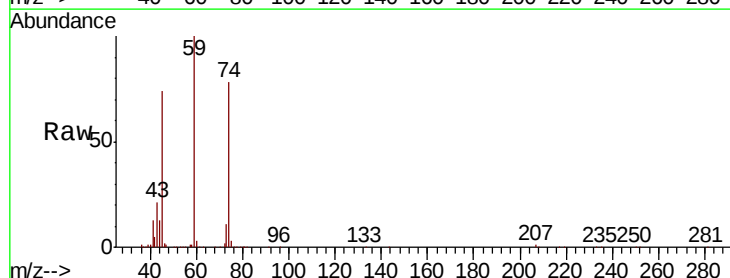
Tot Ion:101 Resp: 76288  
 Ion Ratio Lower Upper  
 101 100  
 103 68.4 49.8 74.8

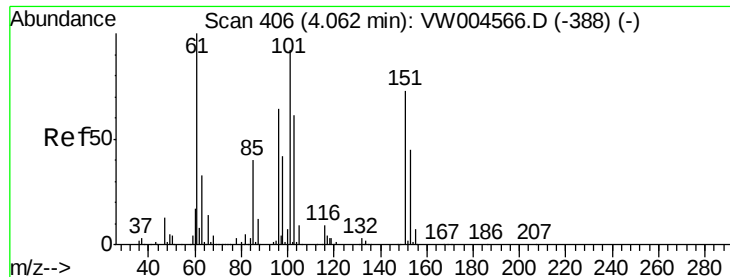


#8

Diethyl Ether  
 Concen: 20.014 ug/l  
 RT: 3.68 min Scan# 343  
 Delta R.T. 0.01 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion: 74 Resp: 81137  
 Ion Ratio Lower Upper  
 74 100  
 45 100.1 51.2 153.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.586 ug/l

RT: 4.06 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

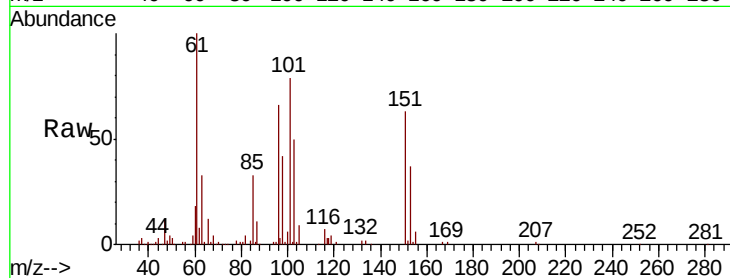
Tot Ion:101 Resp: 152791

Ion Ratio Lower Upper

101 100

85 41.7 34.6 51.8

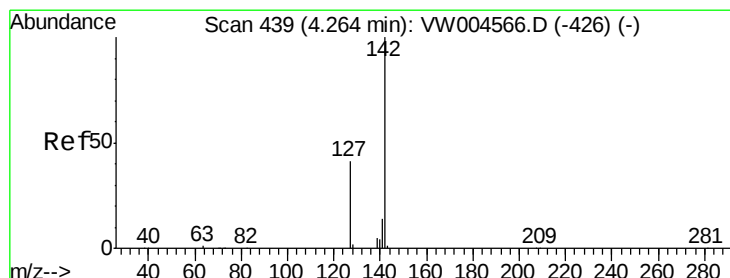
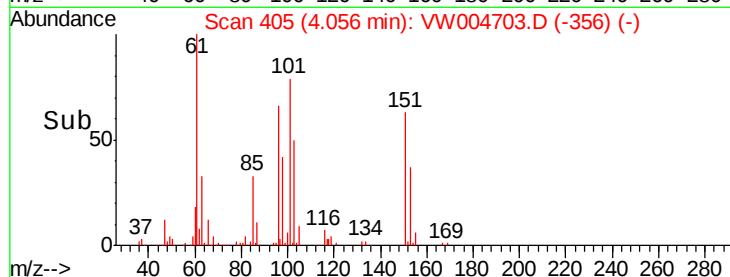
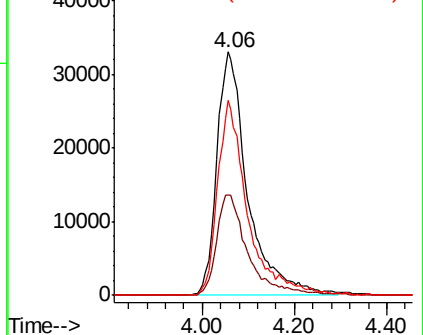
151 77.6 61.3 91.9



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: 20.777 ug/l

RT: 4.27 min Scan# 440

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

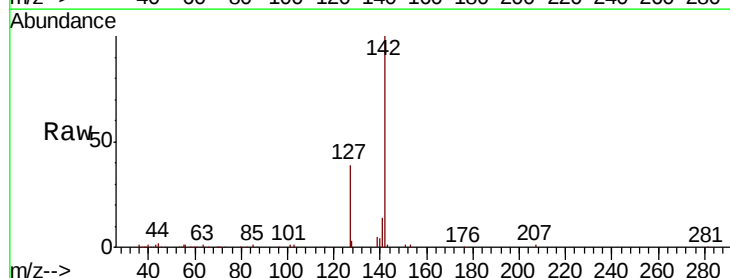
Tgt Ion:142 Resp: 220650

Ion Ratio Lower Upper

142 100

127 40.7 32.7 49.1

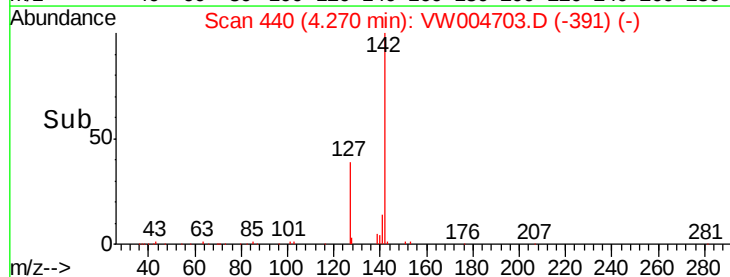
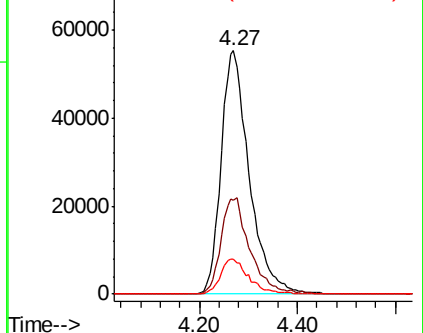
141 14.4 11.5 17.3

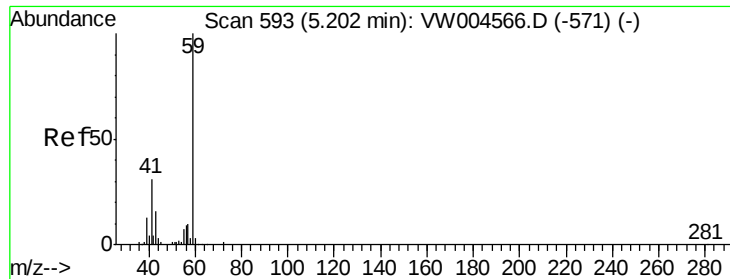


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

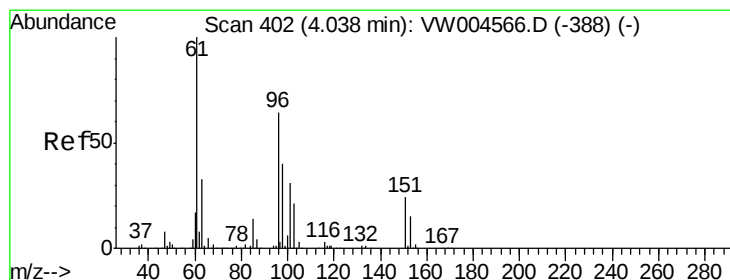
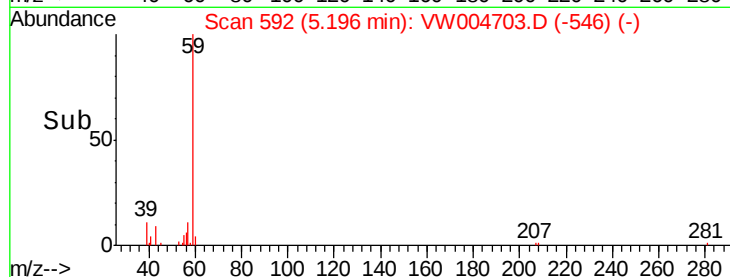
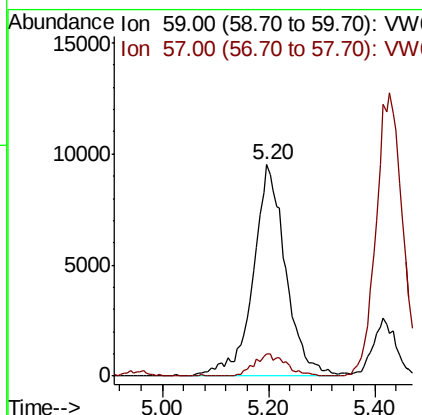
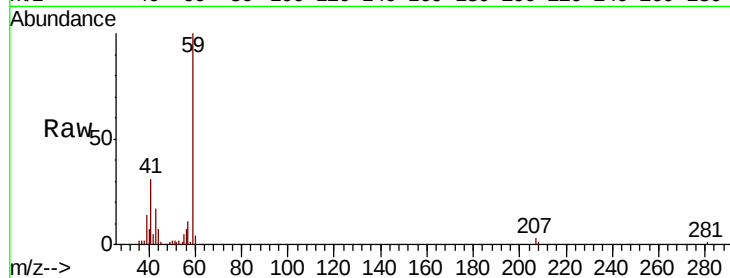




#11  
Tert butyl alcohol  
Concen: 95.459 ug/l  
RT: 5.20 min Scan# 592  
Delta R.T. -0.02 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

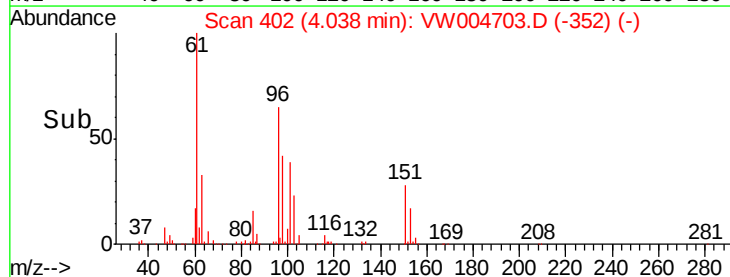
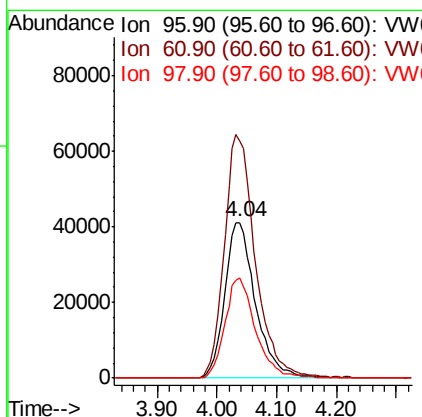
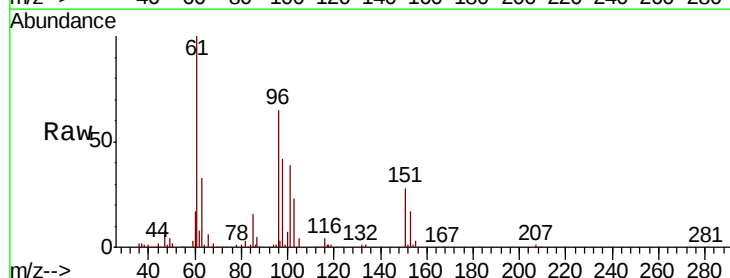
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

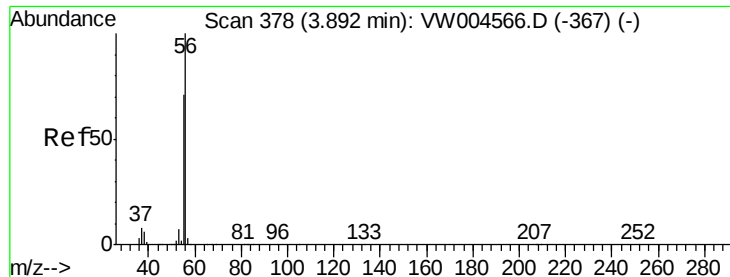
Tot Ion: 59 Resp: 40196  
Ion Ratio Lower Upper  
59 100  
57 10.3 9.1 13.7



#12  
1,1-Dichloroethene  
Concen: 20.794 ug/l  
RT: 4.04 min Scan# 402  
Delta R.T. 0.01 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 96 Resp: 148148  
Ion Ratio Lower Upper  
96 100  
61 152.7 130.6 195.8  
98 64.0 49.6 74.4





#13

Acrolein

Concen: 86.651 ug/l

RT: 3.89 min Scan# 377

Delta R.T. -0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

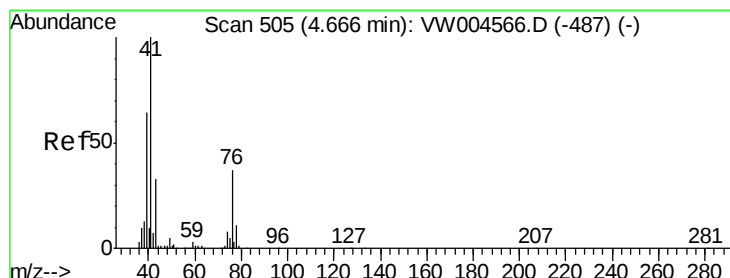
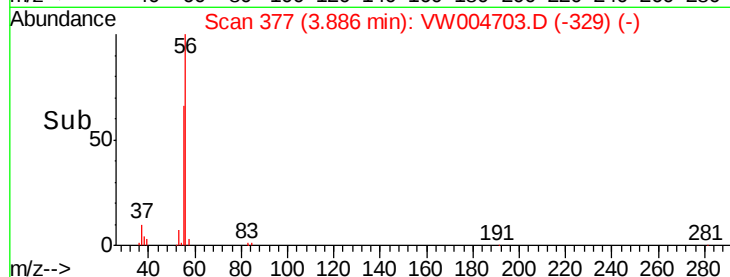
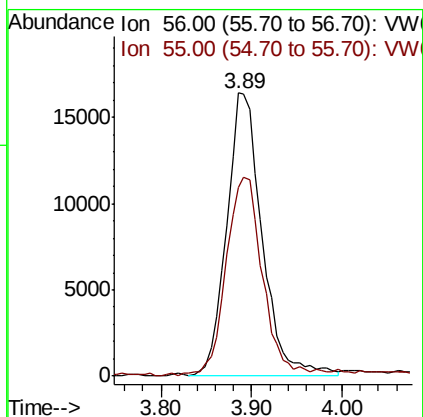
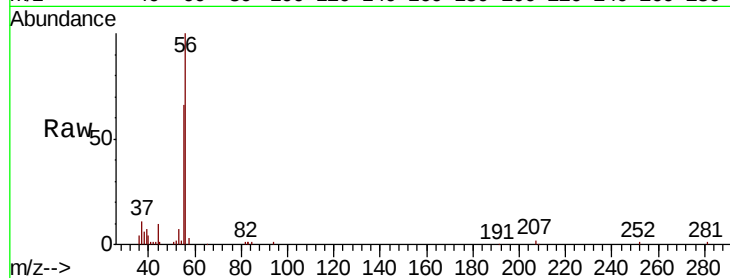
VW0817SBS01

Tot Ion: 56 Resp: 44706

Ion Ratio Lower Upper

56 100

55 72.5 56.7 85.1



#14

Allyl chloride

Concen: 20.270 ug/l

RT: 4.67 min Scan# 505

Delta R.T. 0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

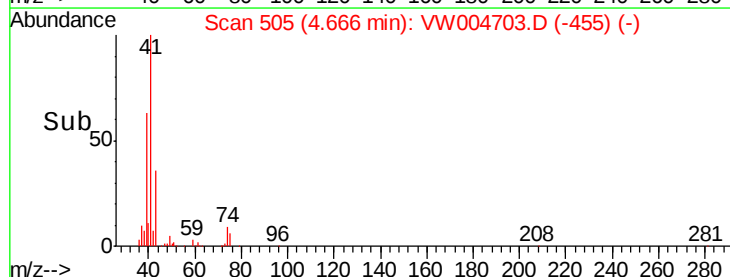
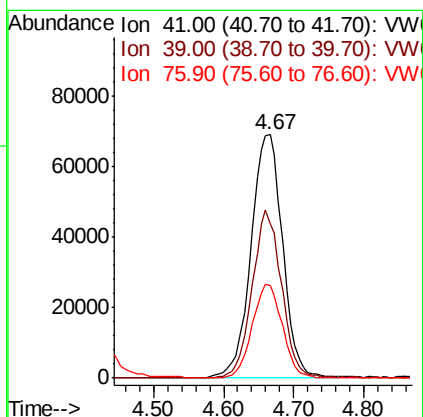
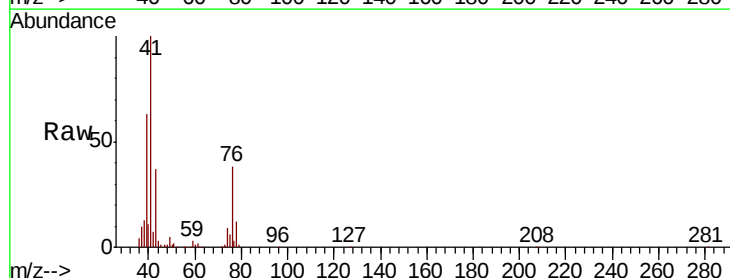
Tgt Ion: 41 Resp: 216975

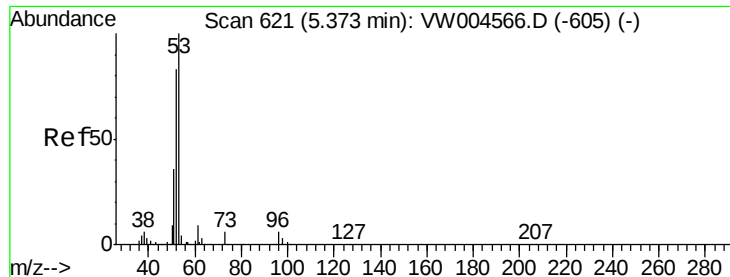
Ion Ratio Lower Upper

41 100

39 64.5 51.9 77.9

76 36.2 29.0 43.6





#15

Acrylonitrile

Concen: 94.351 ug/l

RT: 5.37 min Scan# 621

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

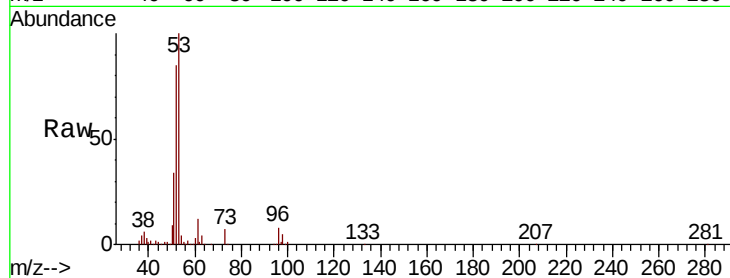
Tot Ion: 53 Resp: 169976

Ion Ratio Lower Upper

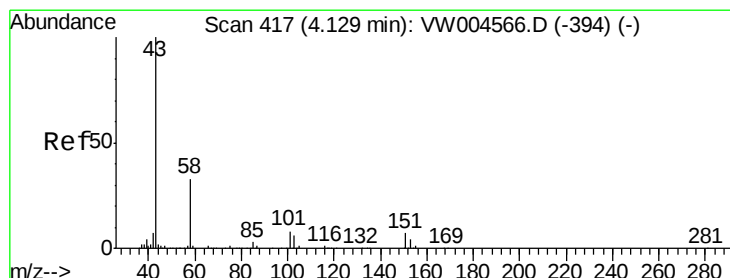
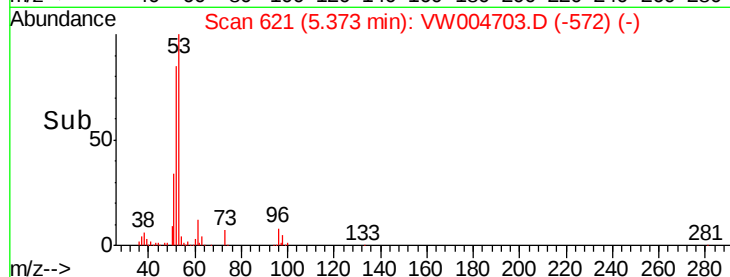
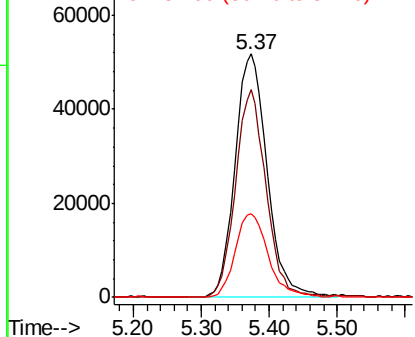
53 100

52 81.4 66.5 99.7

51 35.3 28.4 42.6



Abundance Ion 53.00 (52.70 to 53.70): VW  
Ion 52.00 (51.70 to 52.70): VW  
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 95.517 ug/l

RT: 4.13 min Scan# 417

Delta R.T. -0.01 min

Lab File: VW004703.D

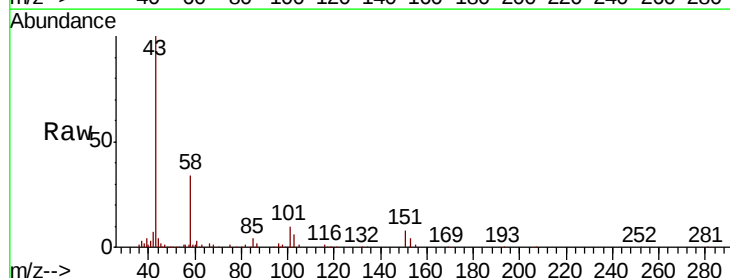
Acq: 15 Aug 2018 19:01

Tgt Ion: 43 Resp: 171547

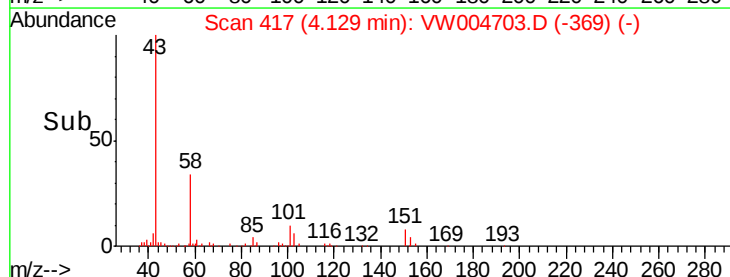
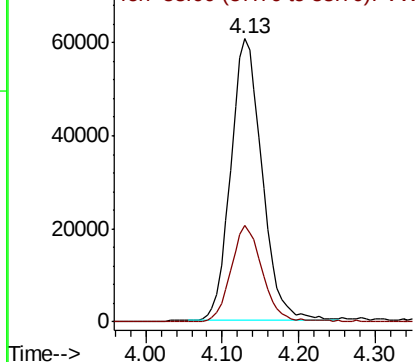
Ion Ratio Lower Upper

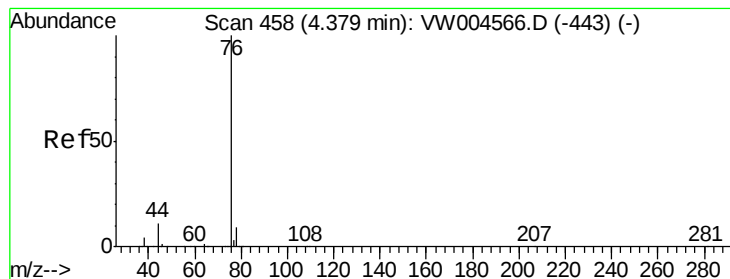
43 100

58 33.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 20.637 ug/l

RT: 4.37 min Scan# 457

Delta R.T. -0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

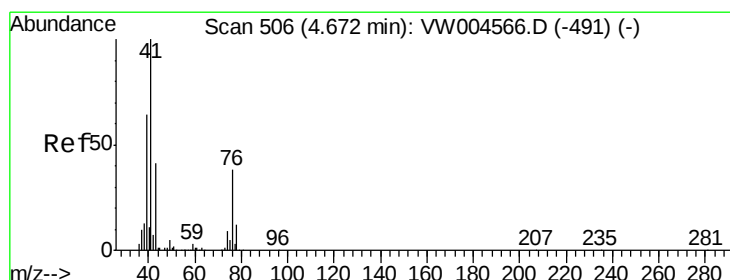
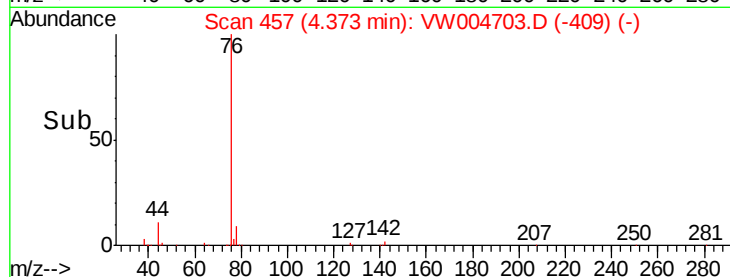
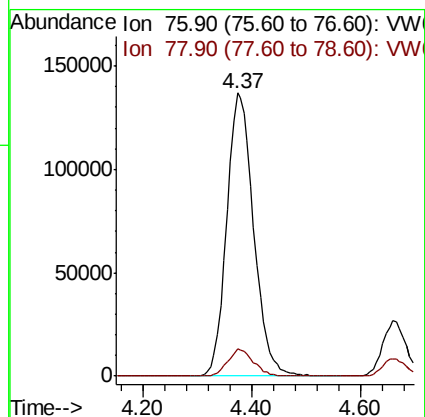
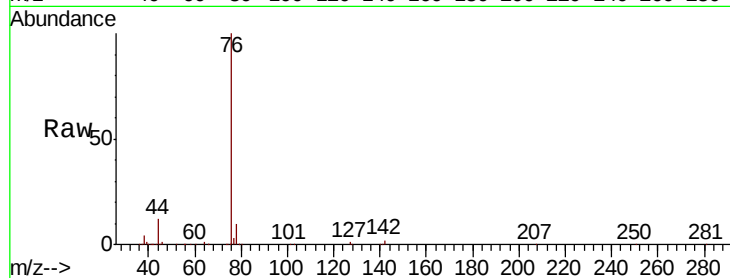
VW0817SBS01

Tot Ion: 76 Resp: 472504

Ion Ratio Lower Upper

76 100

78 9.6 7.0 10.4



#18

Methyl Acetate

Concen: 17.832 ug/l

RT: 4.67 min Scan# 506

Delta R.T. 0.00 min

Lab File: VW004703.D

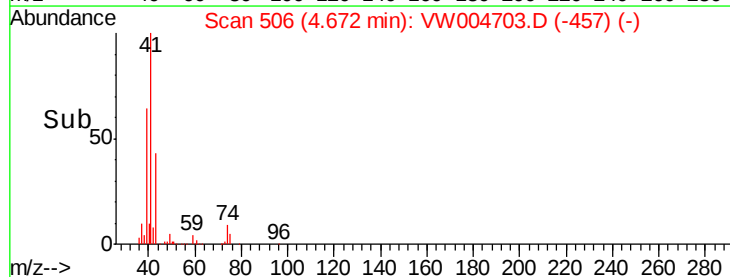
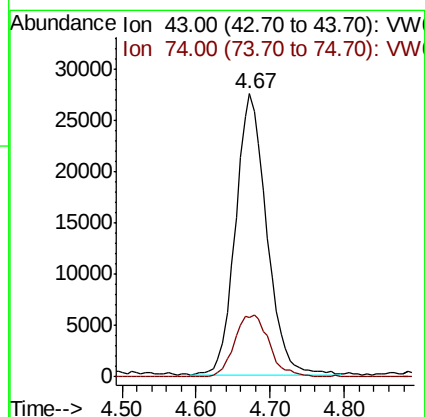
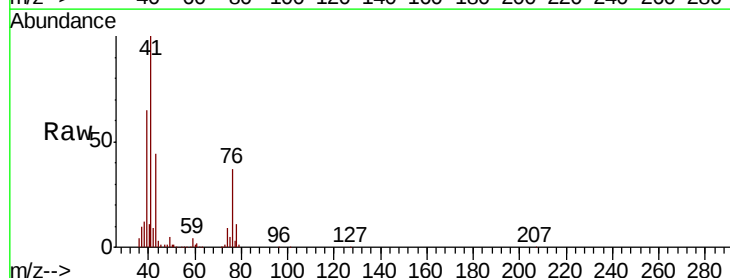
Acq: 15 Aug 2018 19:01

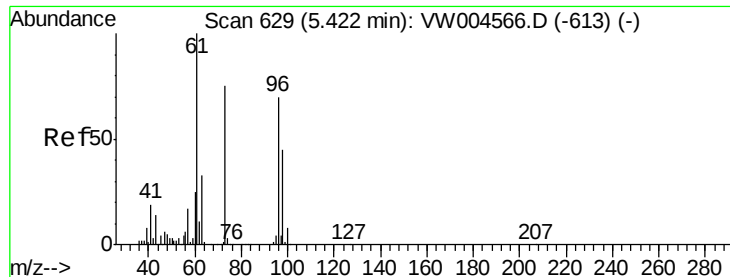
Tgt Ion: 43 Resp: 79861

Ion Ratio Lower Upper

43 100

74 24.6 19.1 28.7



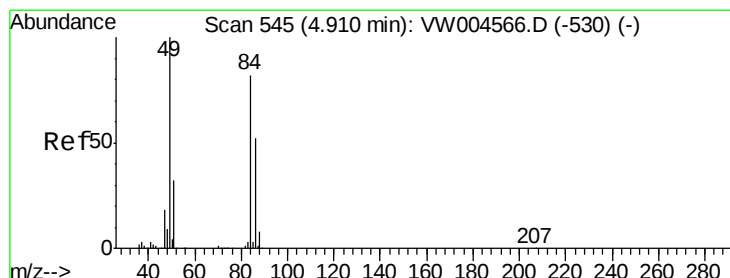
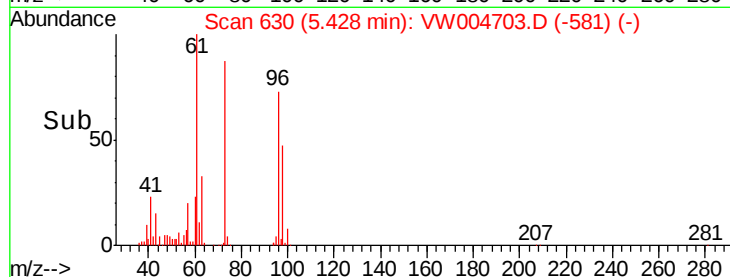
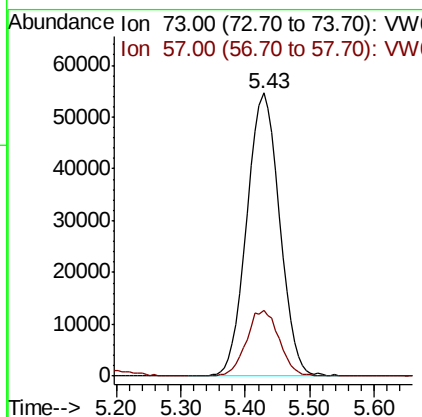
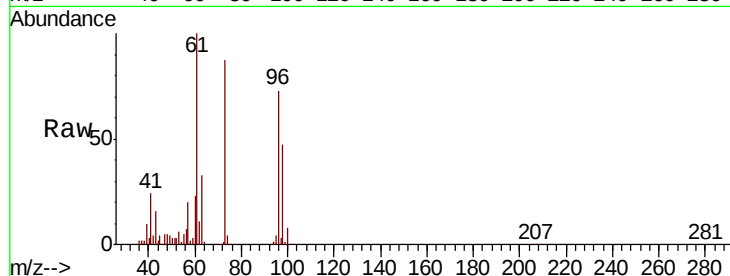


#19

Methyl tert-butyl Ether  
 Concen: 19.692 ug/l  
 RT: 5.43 min Scan# 630  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

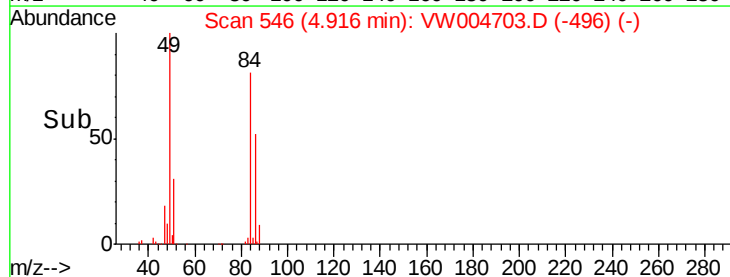
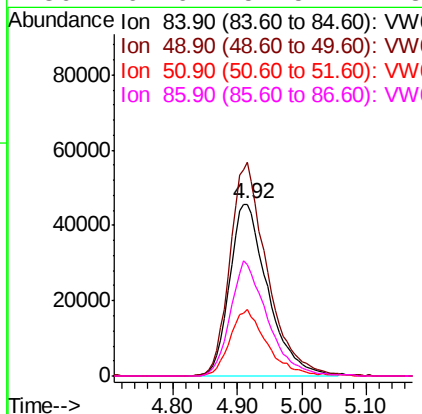
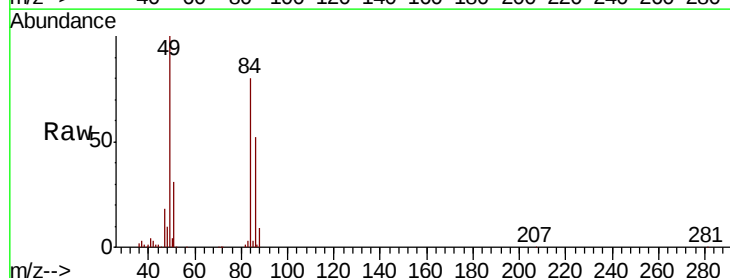
Tot Ion: 73 Resp: 191367  
 Ion Ratio Lower Upper  
 73 100  
 57 23.3 19.6 29.4

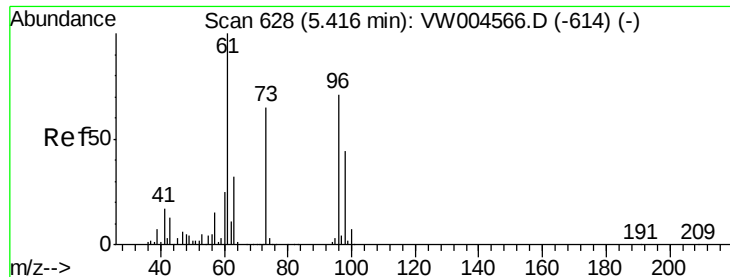


#20

Methylene Chloride  
 Concen: 15.393 ug/l  
 RT: 4.92 min Scan# 546  
 Delta R.T. 0.01 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion: 84 Resp: 188822  
 Ion Ratio Lower Upper  
 84 100  
 49 124.4 99.6 149.4  
 51 38.8 31.0 46.4  
 86 64.6 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 20.336 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

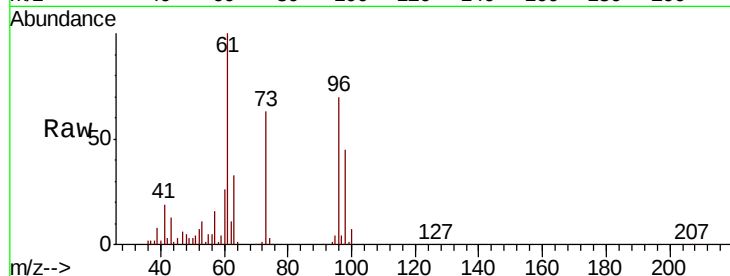
Tot Ion: 96 Resp: 156132

Ion Ratio Lower Upper

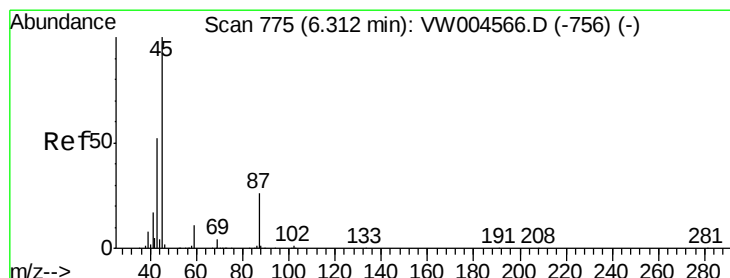
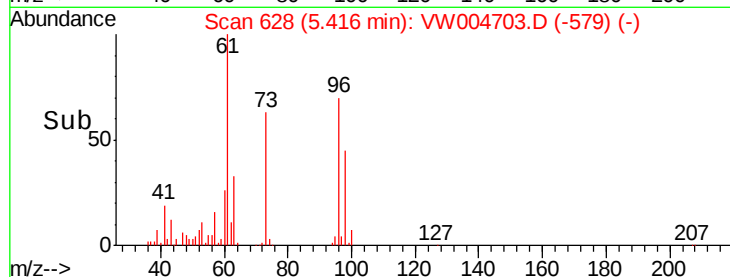
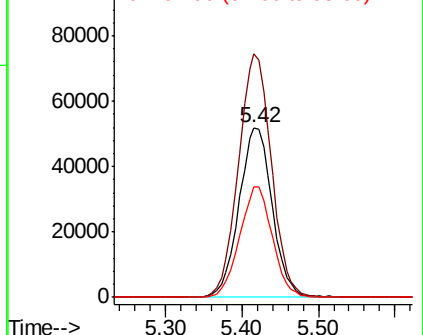
96 100

61 143.2 114.1 171.1

98 64.7 51.4 77.2



Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 20.646 ug/l

RT: 6.32 min Scan# 776

Delta R.T. 0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Tgt Ion: 45 Resp: 454147

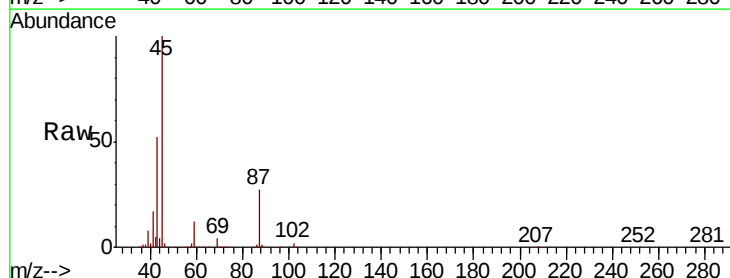
Ion Ratio Lower Upper

45 100

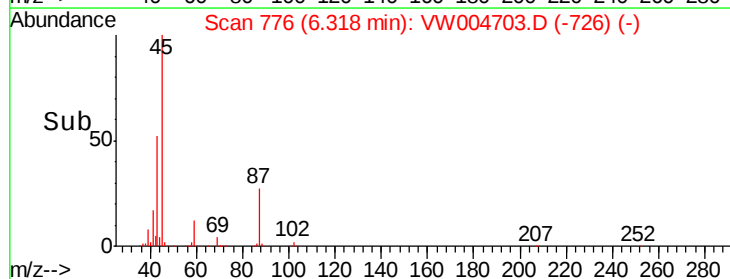
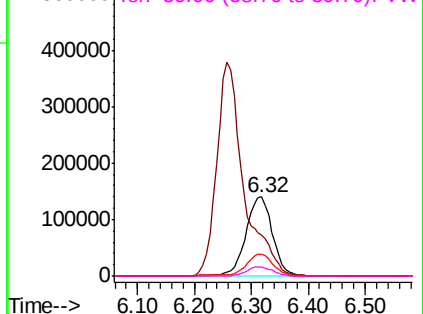
43 51.4 42.4 63.6

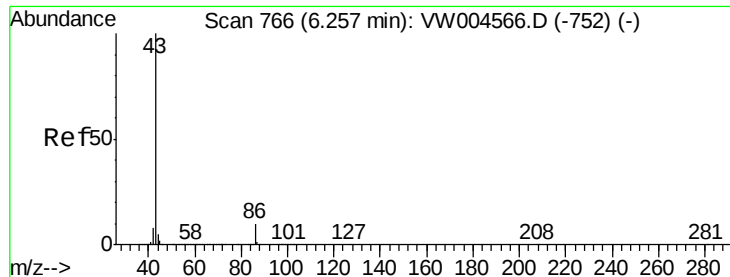
87 26.9 21.6 32.4

59 12.1 9.6 14.4



Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 94.272 ug/l

RT: 6.26 min Scan# 766

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampled :

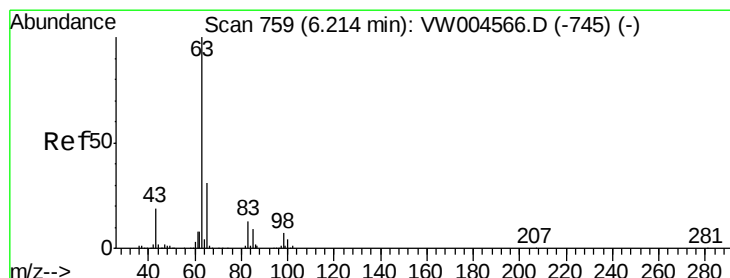
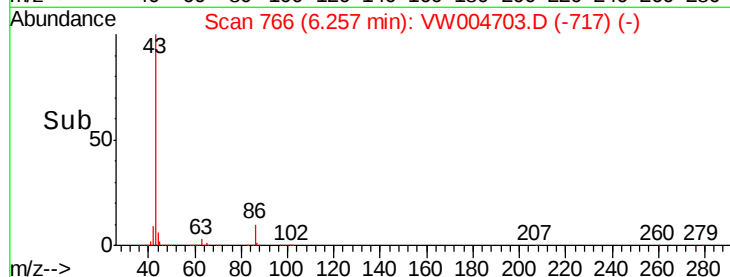
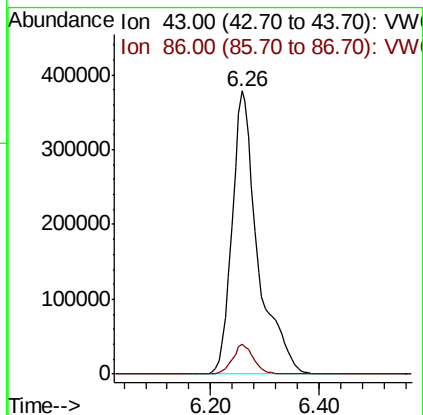
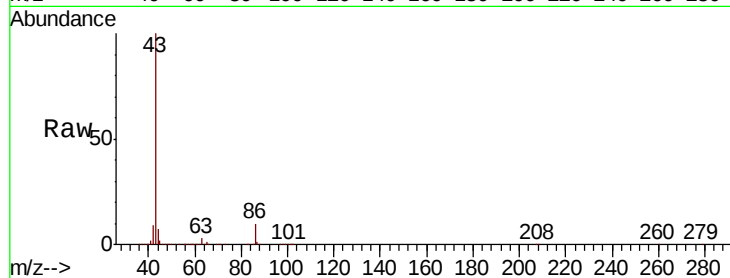
VW0817SBS01

Tot Ion: 43 Resp: 1246296

Ion Ratio Lower Upper

43 100

86 10.4 7.9 11.9



#24

1,1-Dichloroethane

Concen: 20.295 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

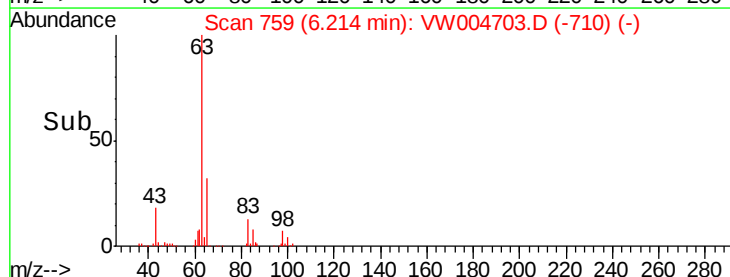
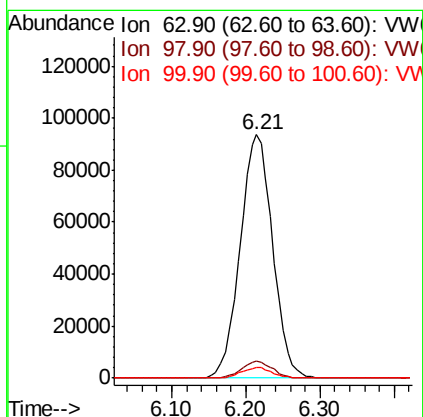
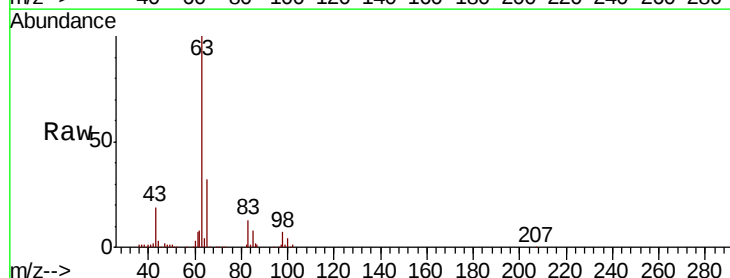
Tgt Ion: 63 Resp: 285757

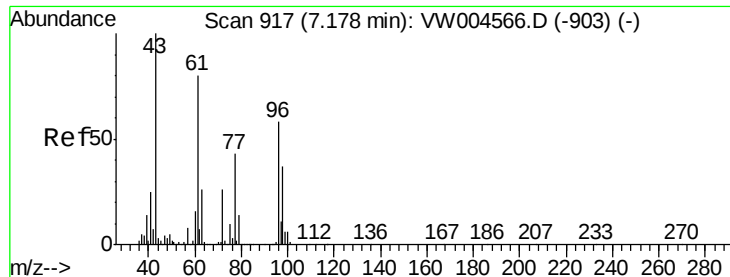
Ion Ratio Lower Upper

63 100

98 6.8 3.1 9.3

100 4.2 2.1 6.5

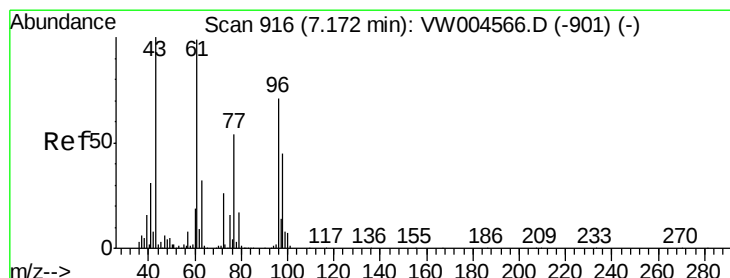
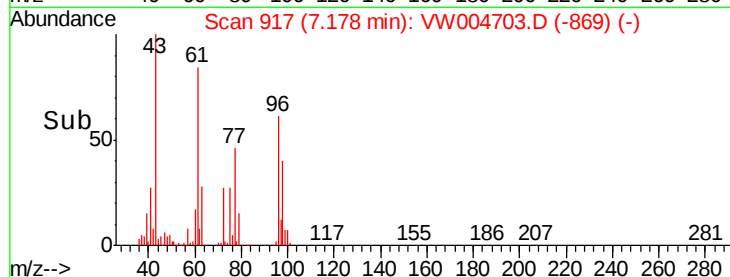
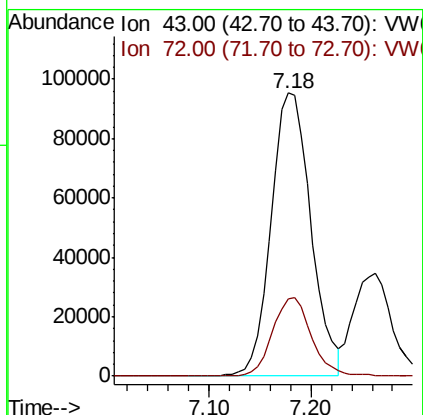
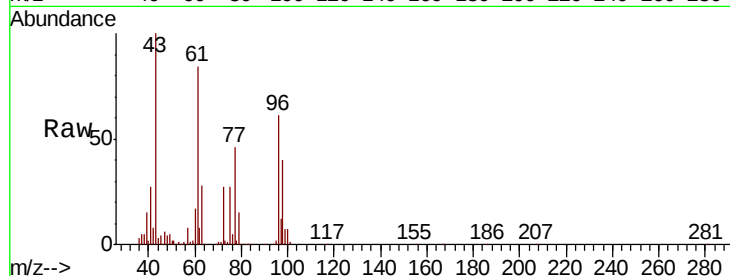




#25  
2-Butanone  
Concen: 89.011 ug/l  
RT: 7.18 min Scan# 917  
Delta R.T. -0.01 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

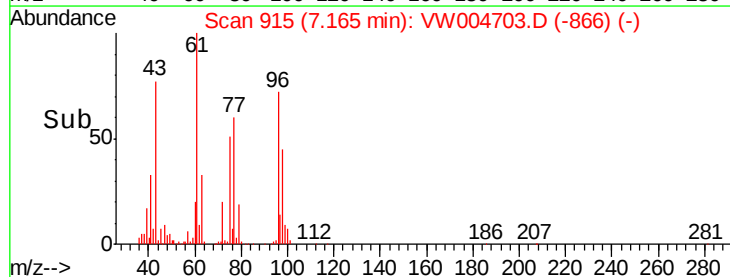
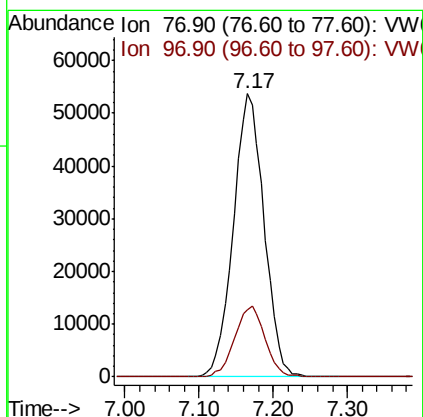
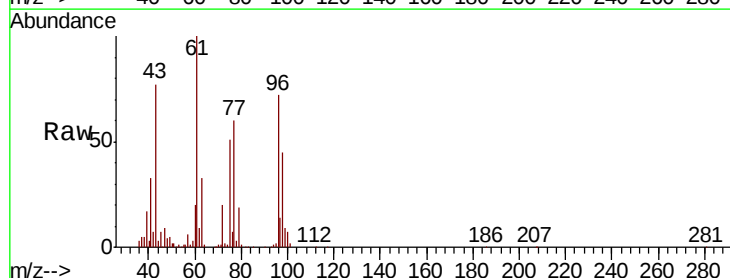
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0817SBS01

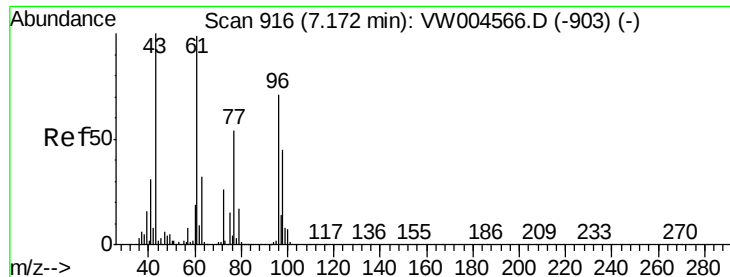
Tot Ion: 43 Resp: 257152  
Ion Ratio Lower Upper  
43 100  
72 27.1 21.0 31.6



#26  
2,2-Dichloropropane  
Concen: 20.988 ug/l  
RT: 7.17 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 77 Resp: 155099  
Ion Ratio Lower Upper  
77 100  
97 24.6 12.5 37.5



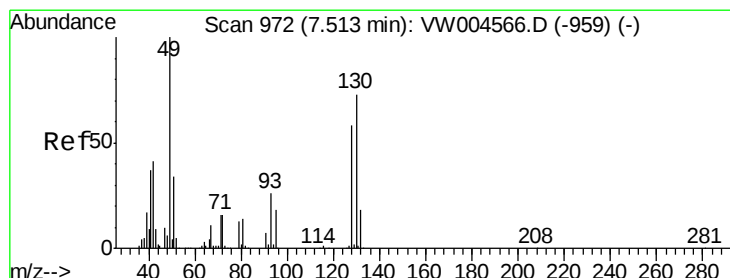
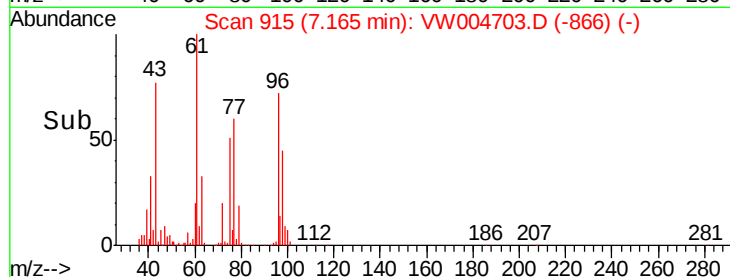
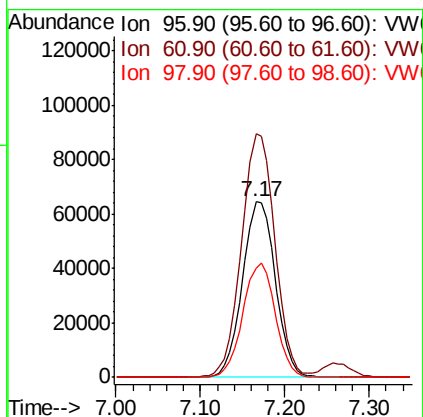
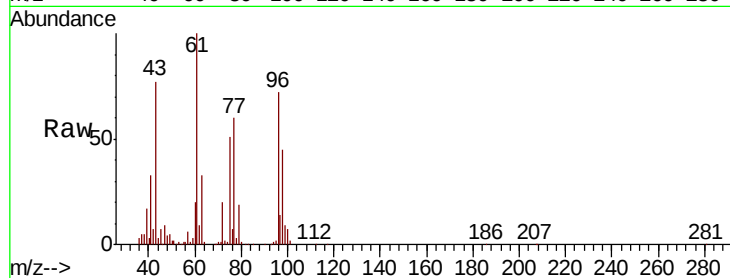


#27

cis-1,2-Dichloroethene  
Concen: 20.643 ug/l  
RT: 7.17 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

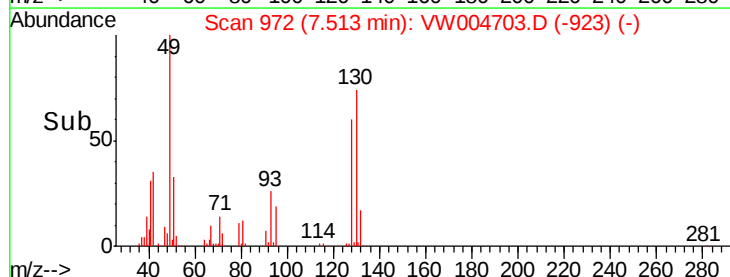
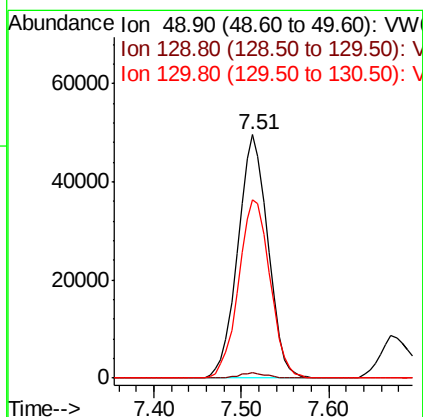
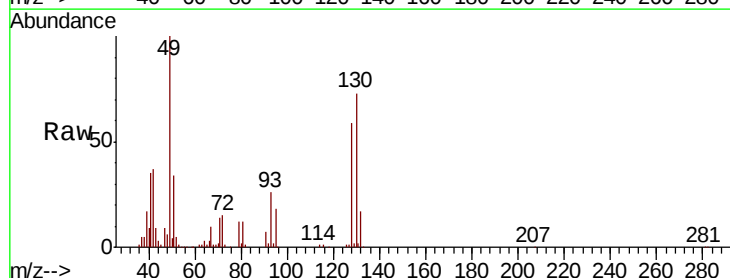
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.6 | 0.0   | 285.0 |
| 98      | 64.5  | 0.0   | 128.6 |

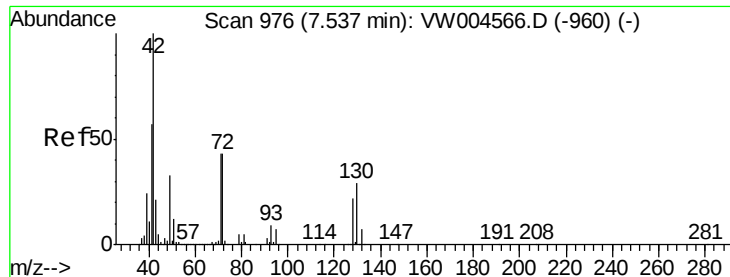


#28

Bromochloromethane  
Concen: 19.409 ug/l  
RT: 7.51 min Scan# 972  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.1   | 0.0   | 4.0   |
| 130     | 76.3  | 58.8  | 88.2  |

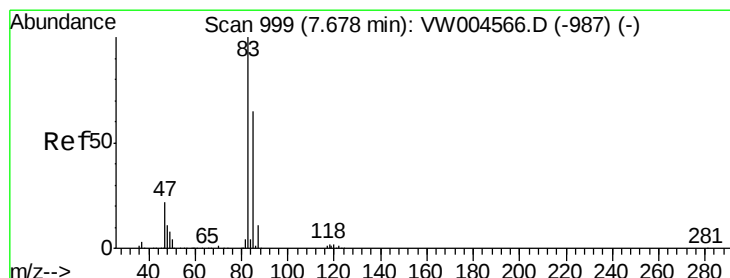
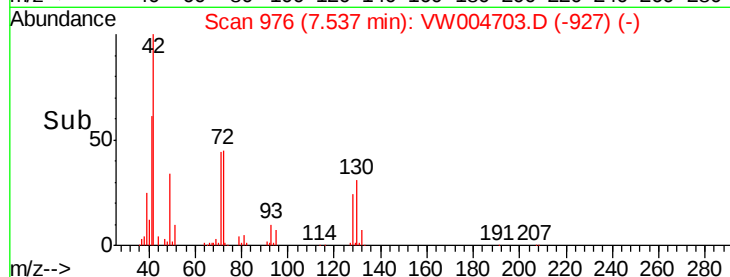
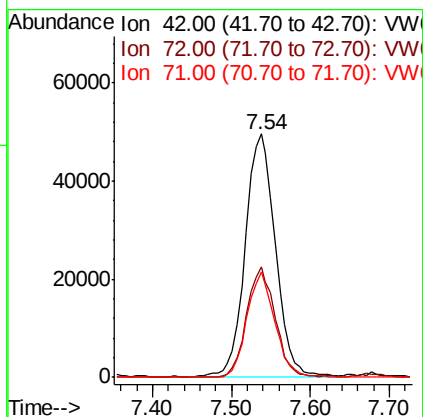
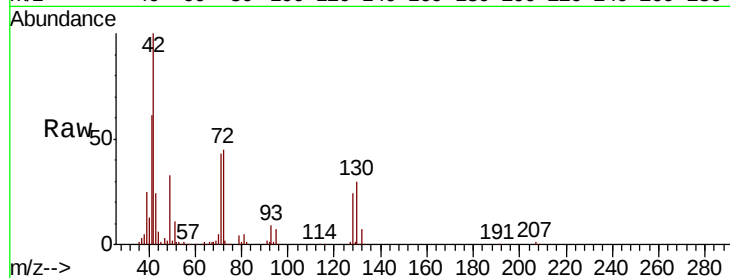




#29  
Tetrahydrofuran  
Concen: 87.834 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

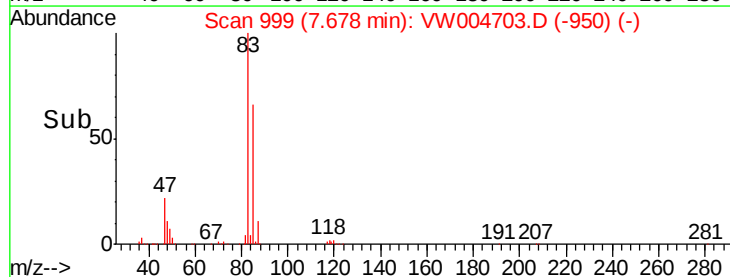
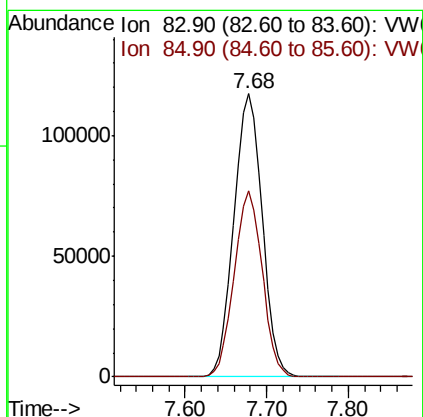
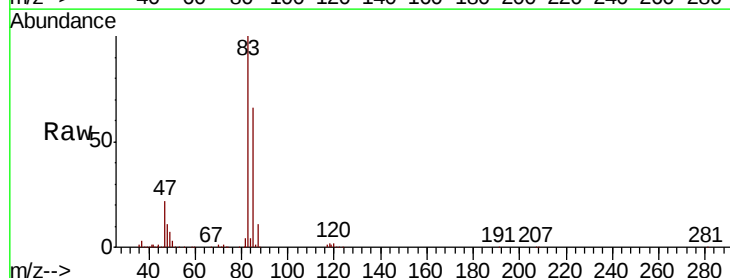
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

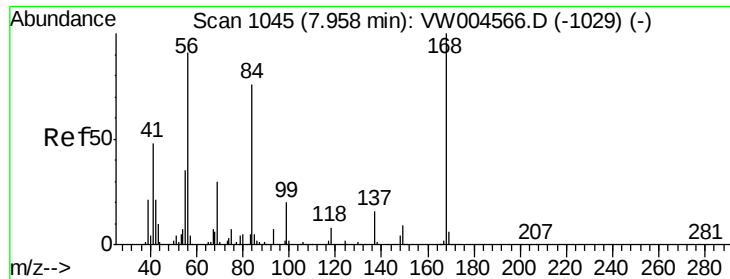
Tot Ion: 42 Resp: 131183  
Ion Ratio Lower Upper  
42 100  
72 43.5 34.1 51.1  
71 40.5 32.5 48.7



#30  
Chloroform  
Concen: 20.408 ug/l  
RT: 7.68 min Scan# 999  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 83 Resp: 282227  
Ion Ratio Lower Upper  
83 100  
85 65.7 51.3 76.9

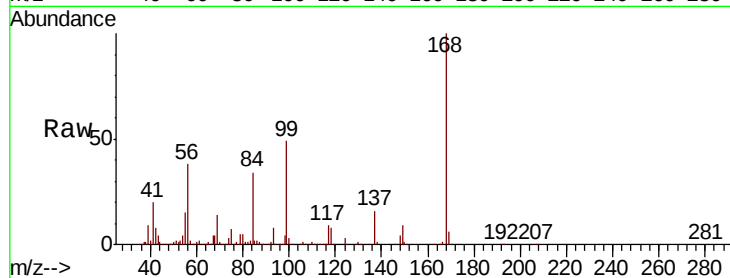




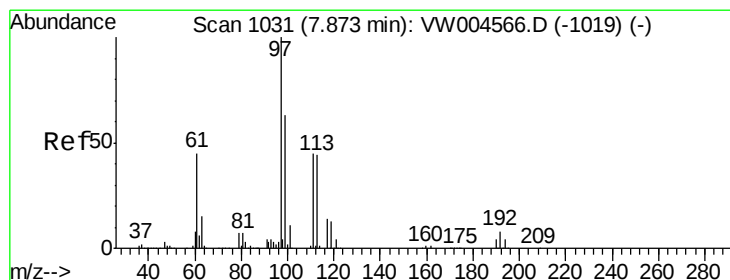
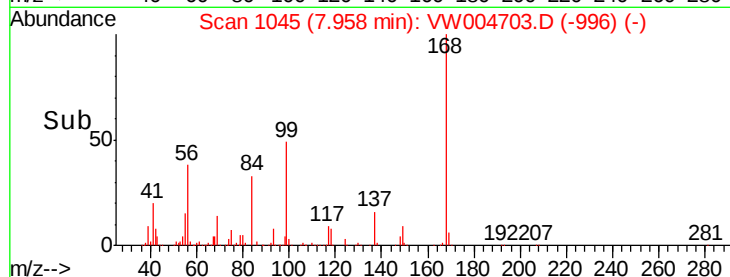
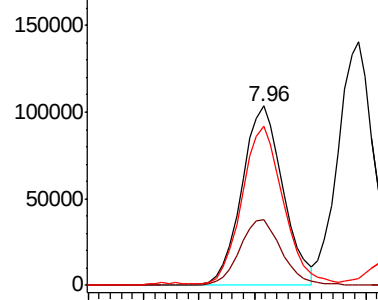
#31  
Cyclohexane  
Concen: 19.831 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

Tot Ion: 56 Resp: 267157  
Ion Ratio Lower Upper  
56 100  
69 36.3 26.4 39.6  
84 87.3 66.9 100.3

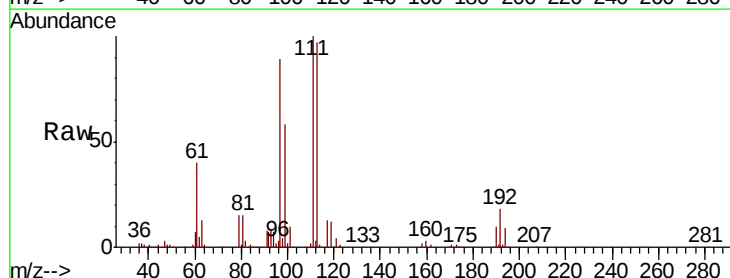


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

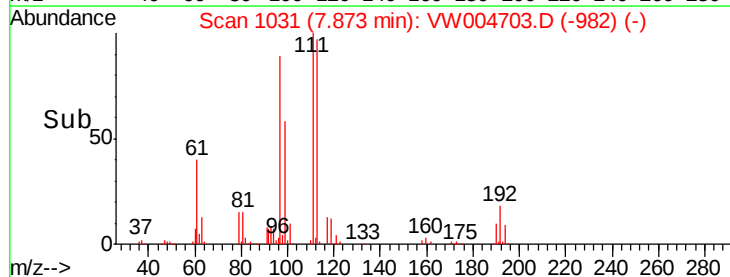
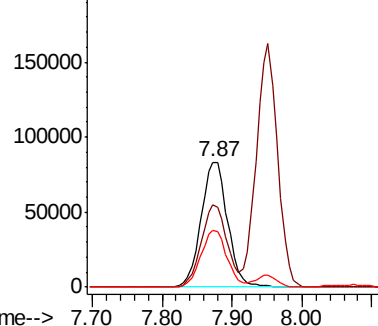


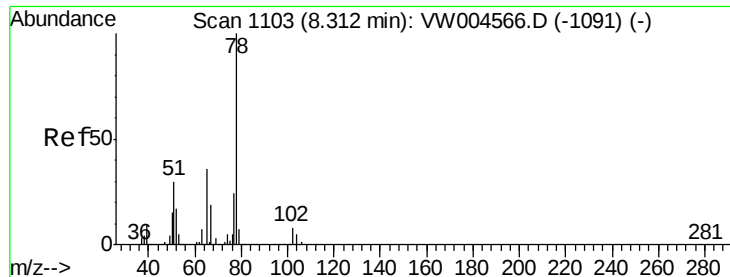
#32  
1,1,1-Trichloroethane  
Concen: 21.042 ug/l  
RT: 7.87 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 97 Resp: 218586  
Ion Ratio Lower Upper  
97 100  
99 63.9 51.6 77.4  
61 44.8 35.7 53.5



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW

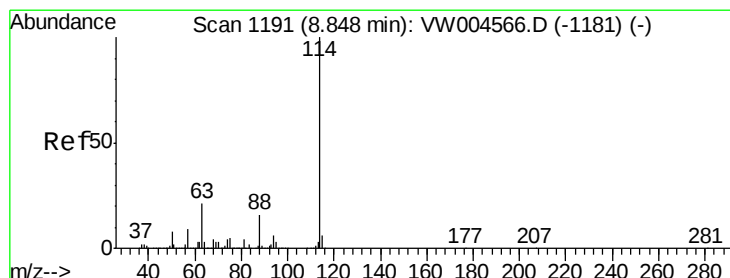
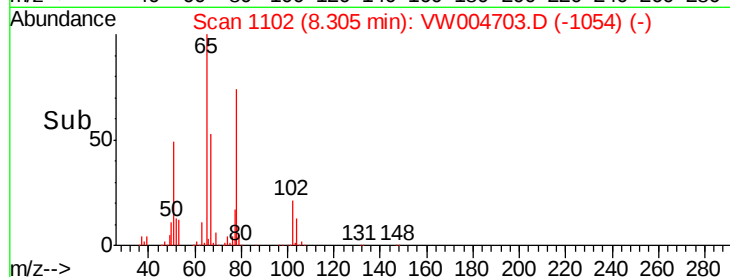
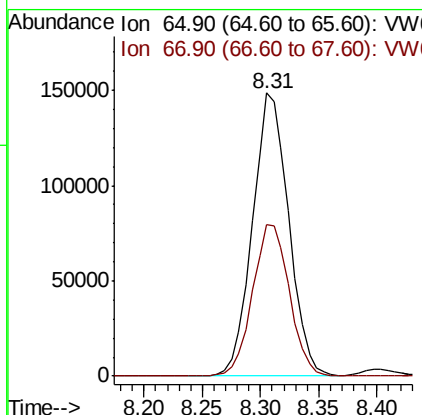
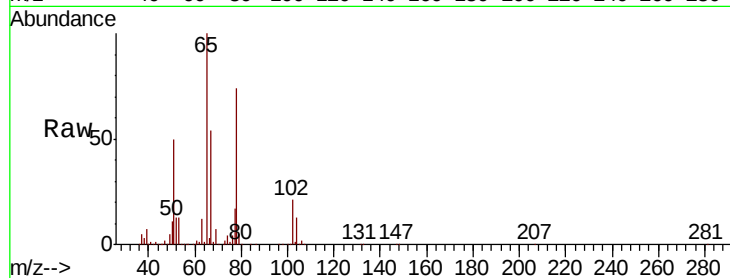




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.705 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

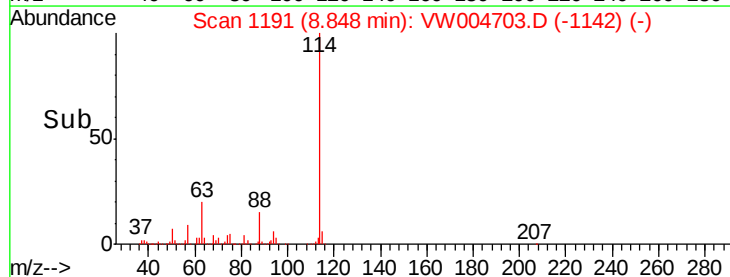
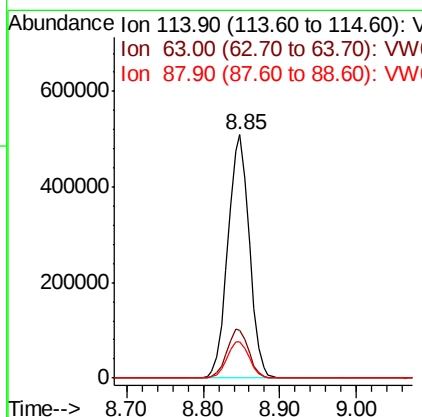
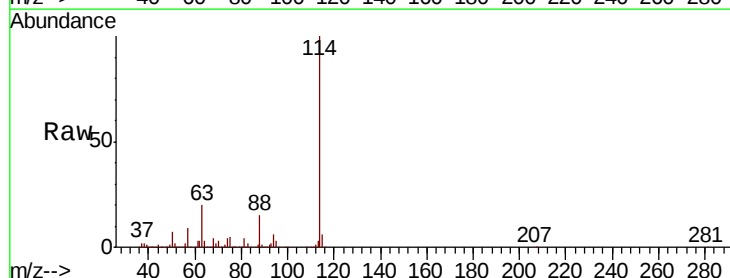
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

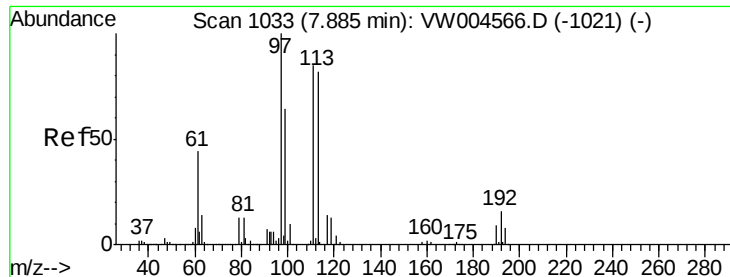
Tot Ion: 65 Resp: 321505  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion: 114 Resp: 983957  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 42.4  
 88 14.8 0.0 31.2

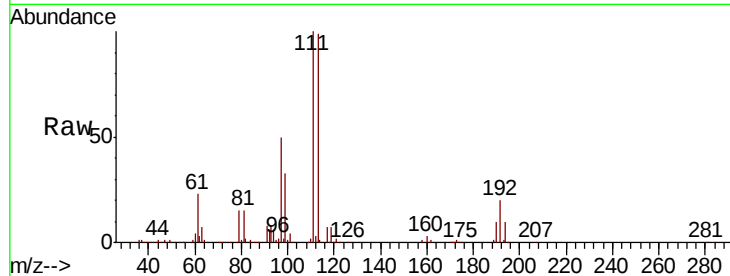




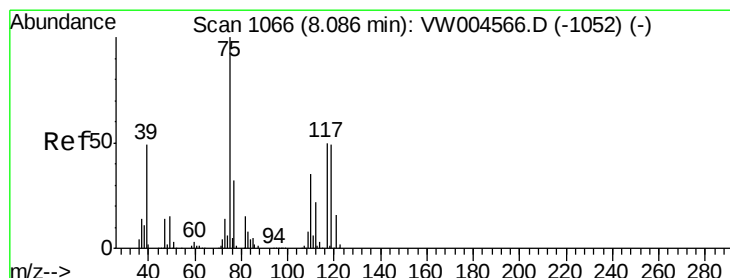
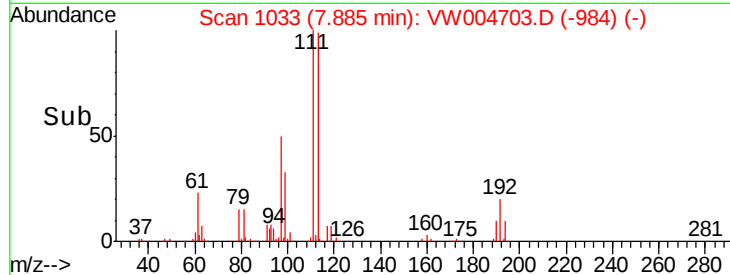
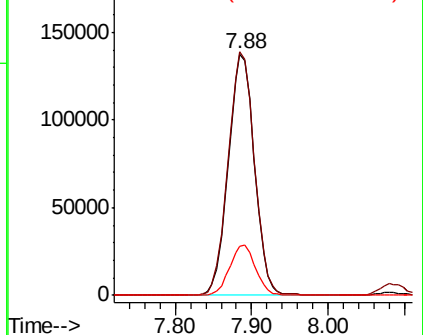
#35  
 Dibromofluoromethane  
 Concen: 49.417 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 82.9  | 124.3 |
| 192     | 20.7  | 15.8  | 23.6  |

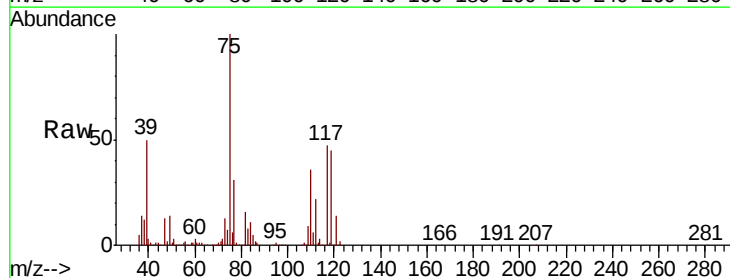


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

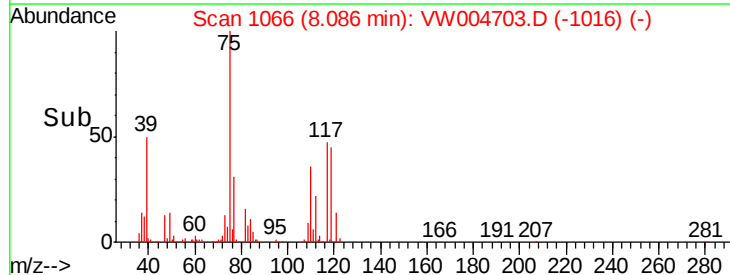
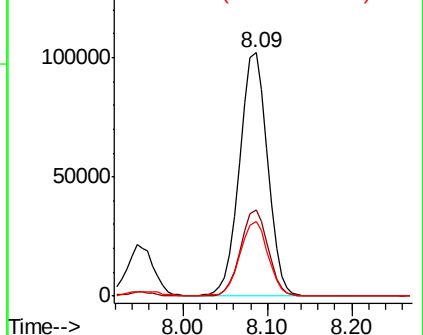


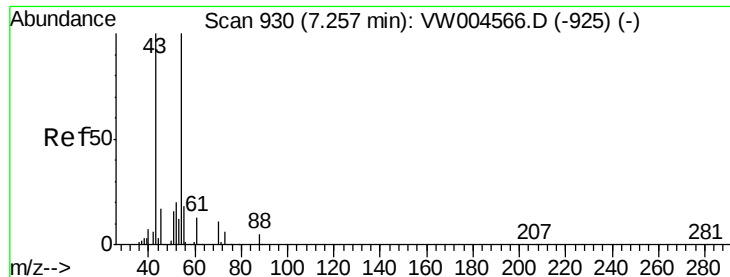
#36  
 1,1-Dichloropropene  
 Concen: 21.571 ug/l  
 RT: 8.09 min Scan# 1066  
 Delta R.T. 0.01 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.9  | 17.4  | 52.2  |
| 77      | 30.9  | 24.7  | 37.1  |



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW

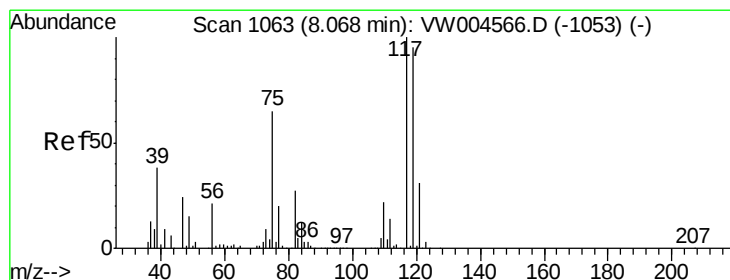
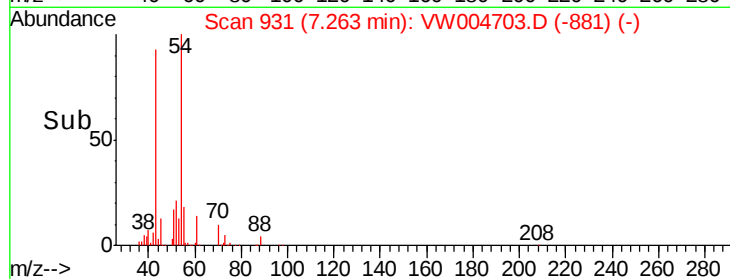
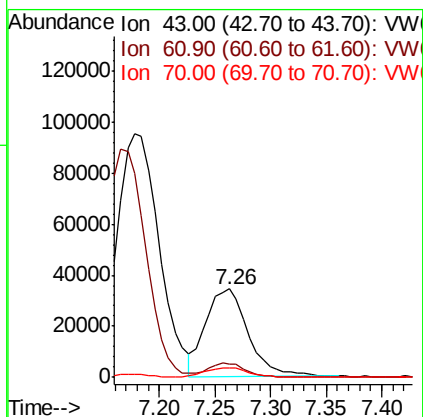
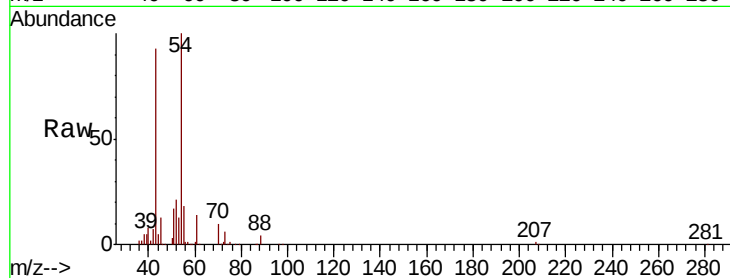




#37  
Ethyl Acetate  
Concen: 18.362 ug/l  
RT: 7.26 min Scan# 931  
Delta R.T. 0.01 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

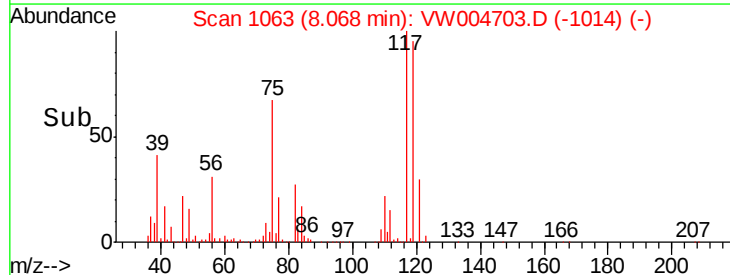
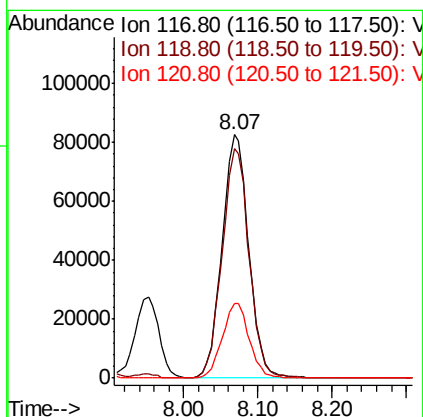
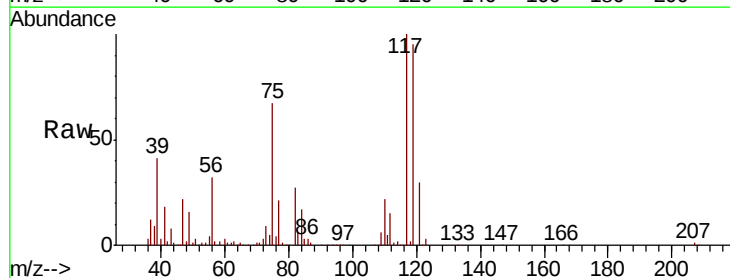
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

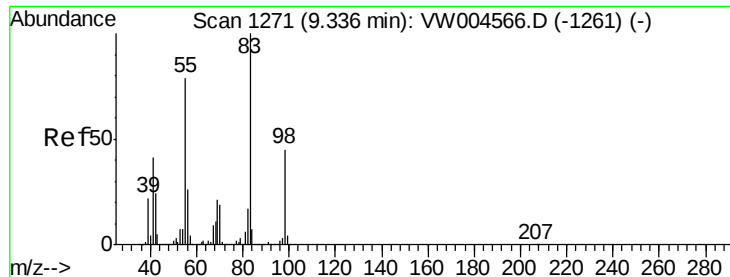
Tot Ion: 43 Resp: 91111  
Ion Ratio Lower Upper  
43 100  
61 14.7 11.9 17.9  
70 11.1 8.2 12.4



#38  
Carbon Tetrachloride  
Concen: 21.652 ug/l  
RT: 8.07 min Scan# 1063  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 117 Resp: 206424  
Ion Ratio Lower Upper  
117 100  
119 94.5 76.1 114.1  
121 30.4 24.2 36.4

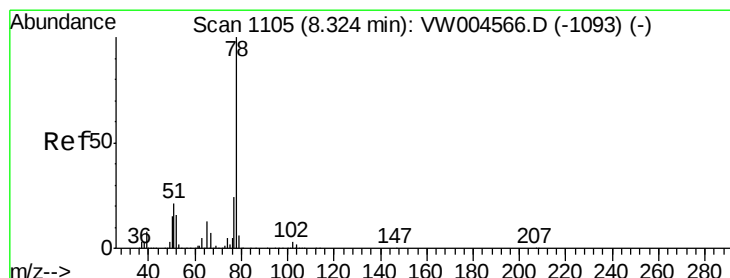
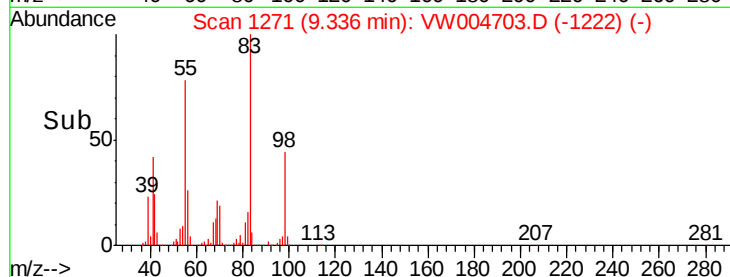
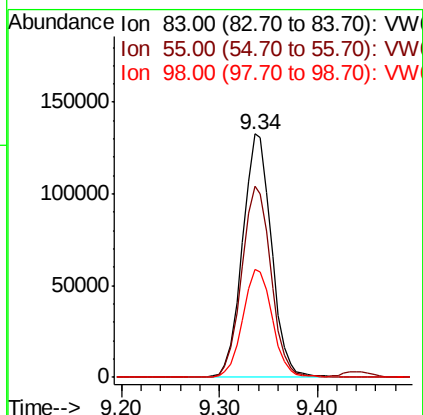
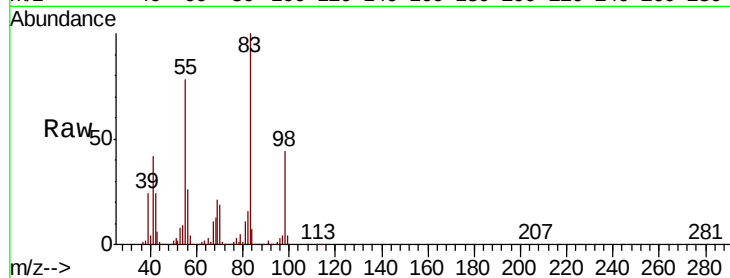




#39  
Methylcyclohexane  
Concen: 21.029 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

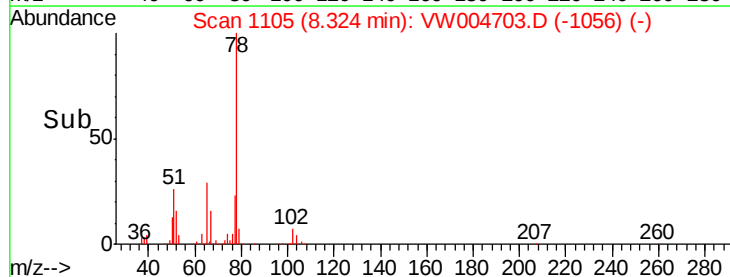
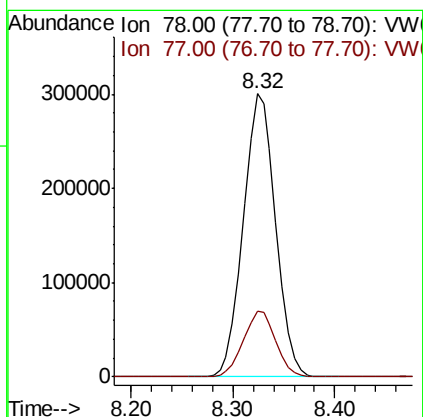
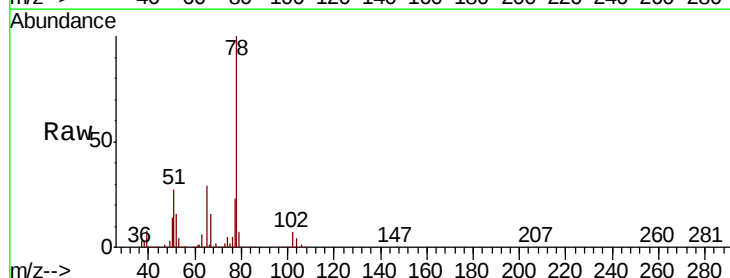
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

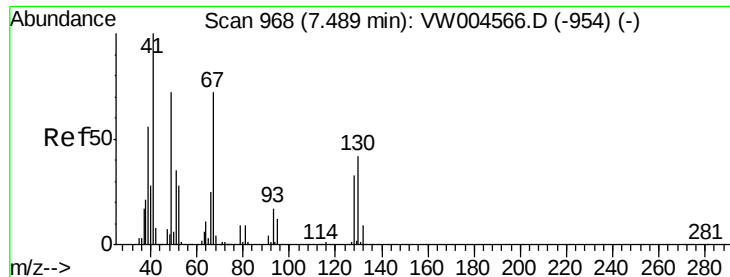
Tot Ion: 83 Resp: 273076  
Ion Ratio Lower Upper  
83 100  
55 78.4 62.5 93.7  
98 44.5 35.4 53.2



#40  
Benzene  
Concen: 21.249 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 78 Resp: 661087  
Ion Ratio Lower Upper  
78 100  
77 23.2 19.0 28.6

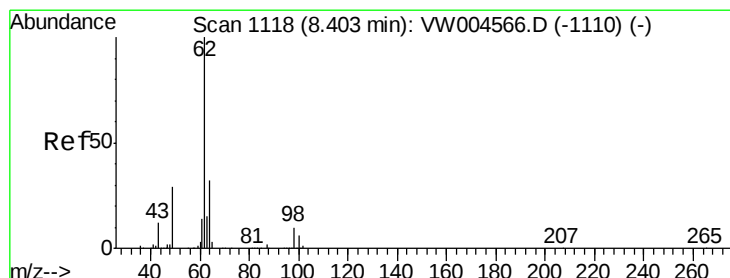
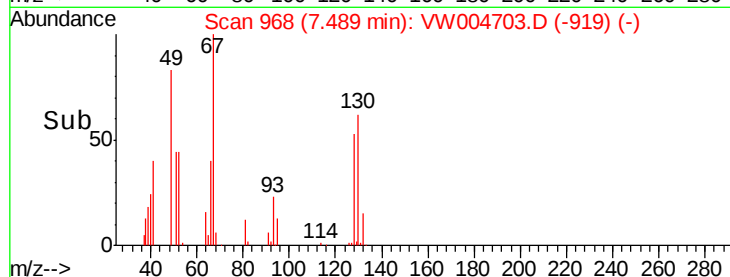
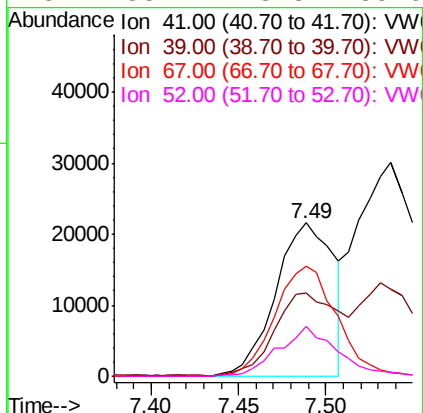
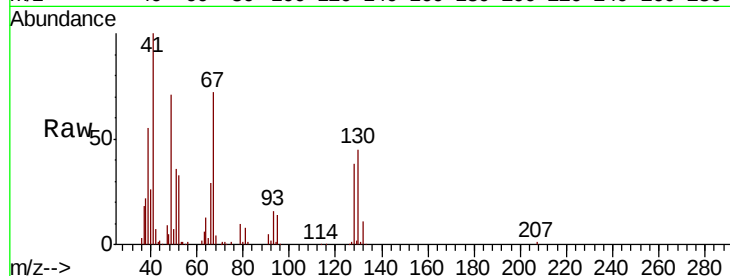




#41  
Methacrylonitrile  
Concen: 17.875 ug/l  
RT: 7.49 min Scan# 968  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

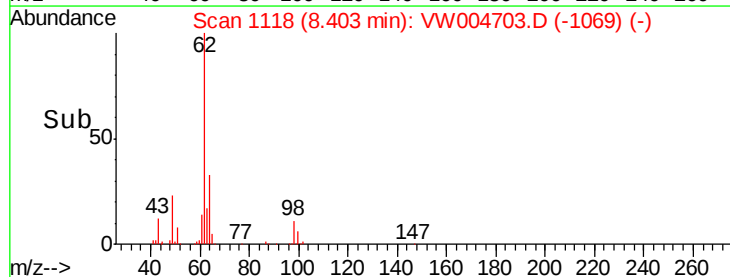
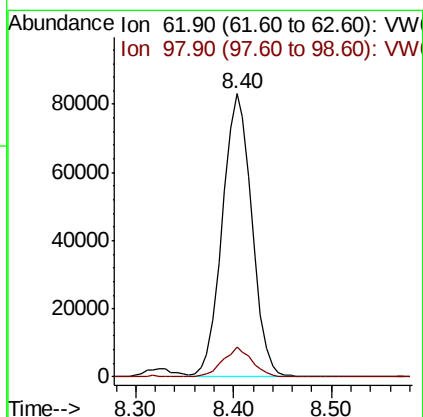
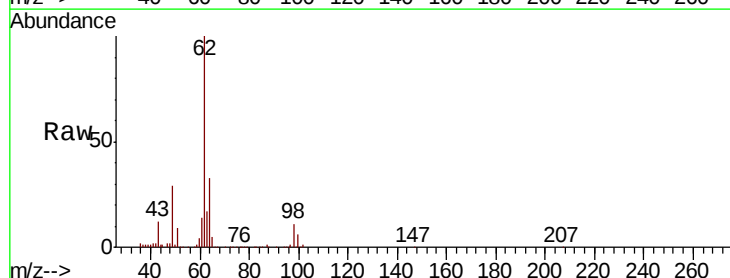
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

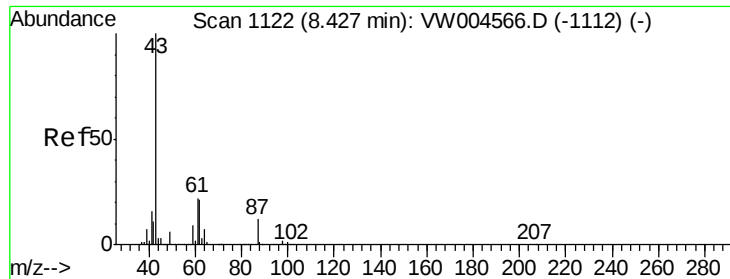
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 49539 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 61.1  | 46.2  | 69.2  |
| 67       | 78.1  | 60.8  | 91.2  |
| 52       | 33.7  | 23.8  | 35.6  |



#42  
1,2-Dichloroethane  
Concen: 20.175 ug/l  
RT: 8.40 min Scan# 1118  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 173655 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.2  | 0.0   | 19.6   |





#43

Isopropyl Acetate

Concen: 18.339 ug/l

RT: 8.43 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampled :

VW0817SBS01

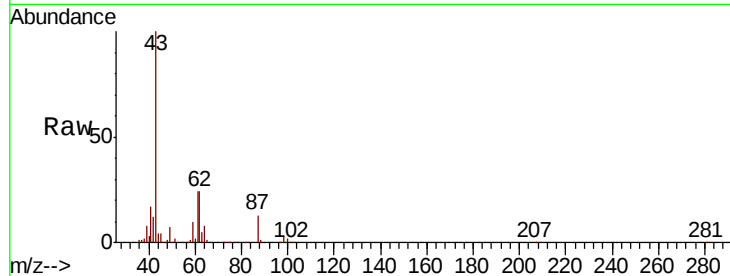
Tot Ion: 43 Resp: 158620

Ion Ratio Lower Upper

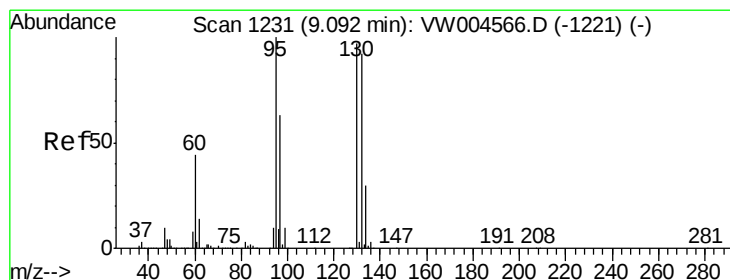
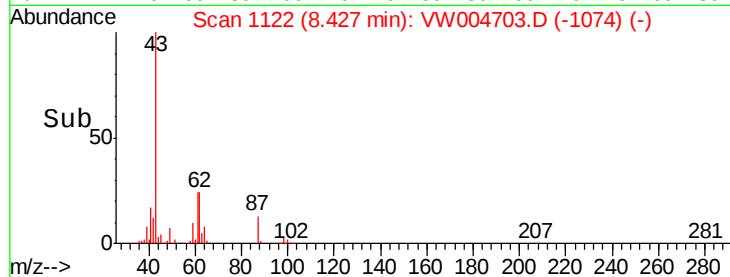
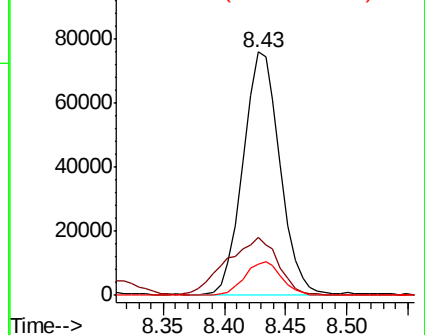
43 100

61 33.4 25.2 37.8

87 13.7 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 21.321 ug/l

RT: 9.10 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VW004703.D

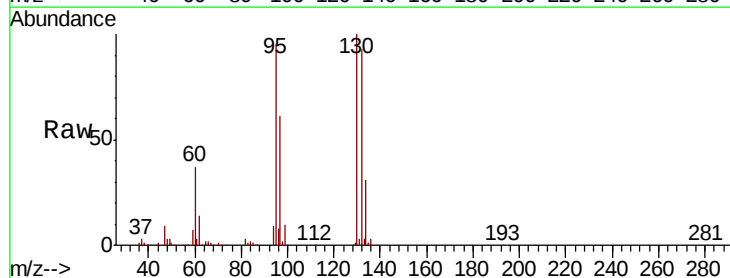
Acq: 15 Aug 2018 19:01

Tgt Ion: 130 Resp: 162998

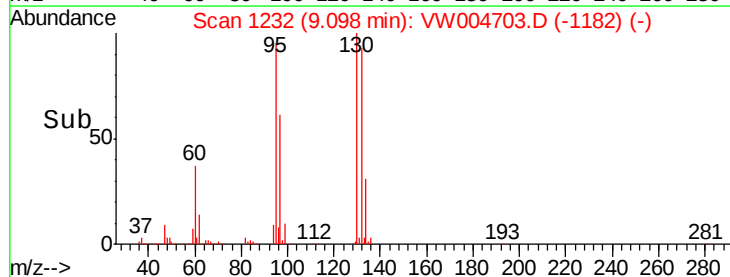
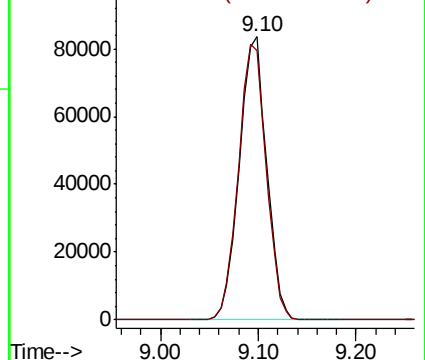
Ion Ratio Lower Upper

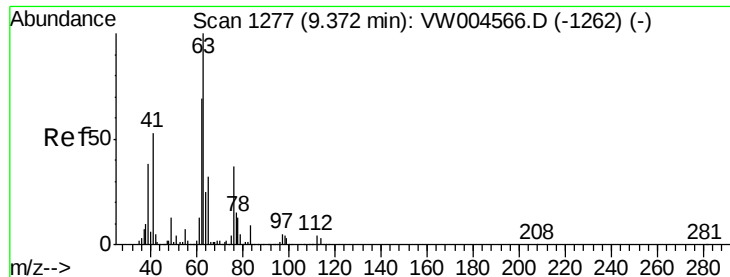
130 100

95 95.0 0.0 196.2



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 20.560 ug/l

RT: 9.37 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

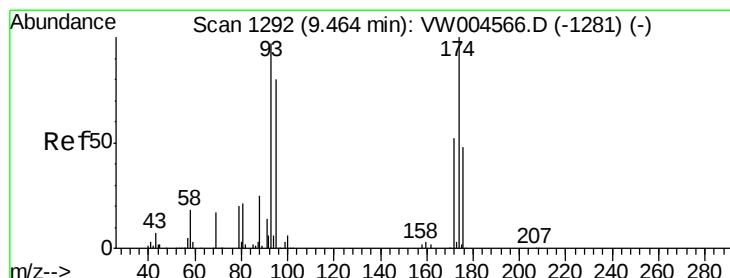
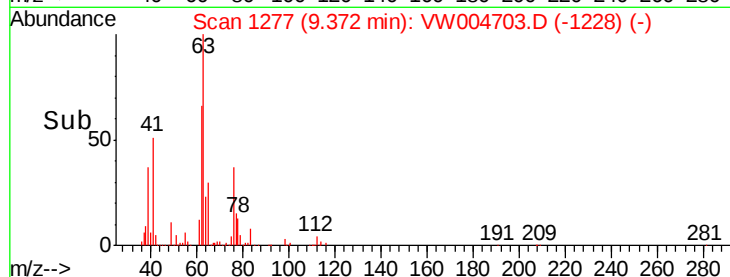
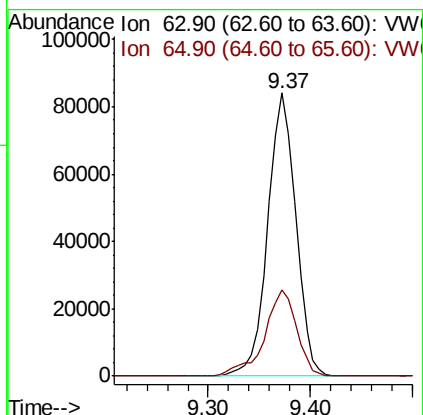
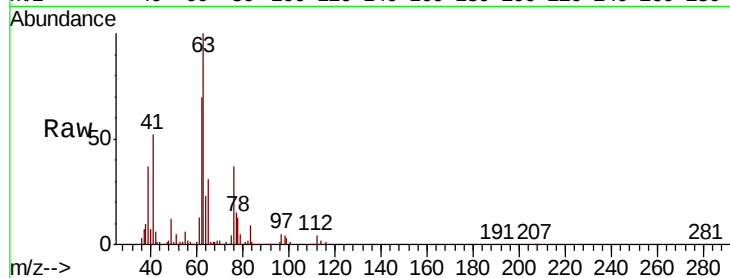
VW0817SBS01

Tot Ion: 63 Resp: 160187

Ion Ratio Lower Upper

63 100

65 30.7 24.5 36.7



#46

Dibromomethane

Concen: 20.236 ug/l

RT: 9.46 min Scan# 1292

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

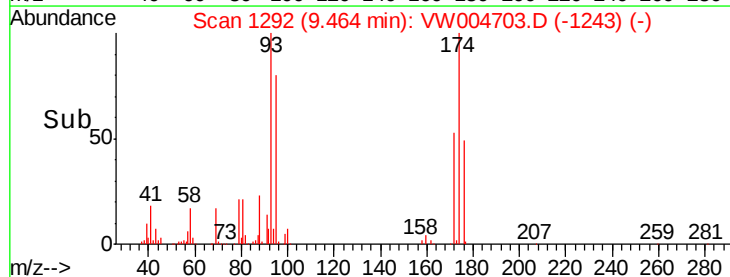
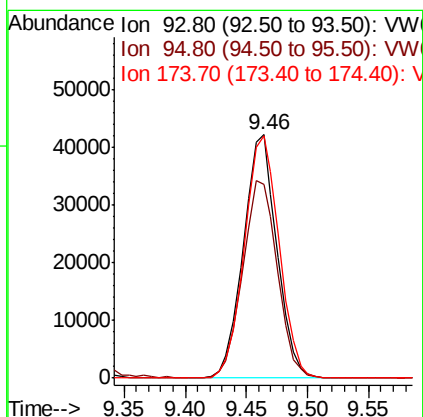
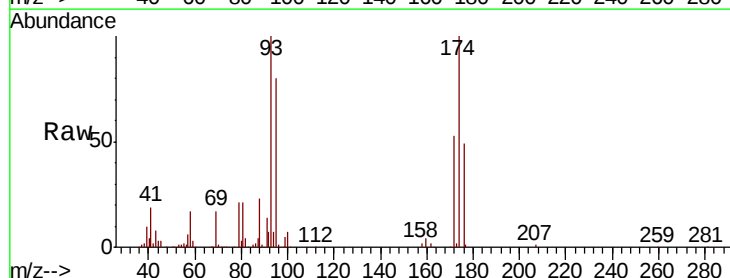
Tgt Ion: 93 Resp: 80262

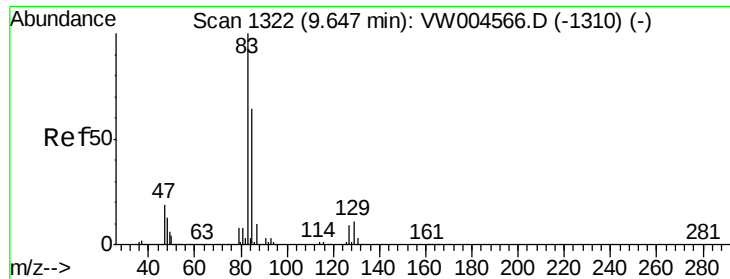
Ion Ratio Lower Upper

93 100

95 84.1 67.0 100.4

174 103.3 80.2 120.4





#47

Bromodichloromethane

Concen: 20.305 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

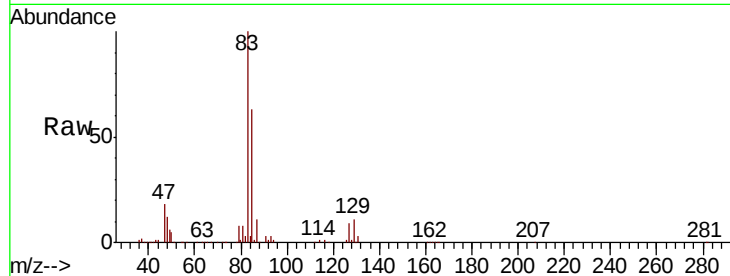
Tot Ion: 83 Resp: 190104

Ion Ratio Lower Upper

83 100

85 62.9 50.7 76.1

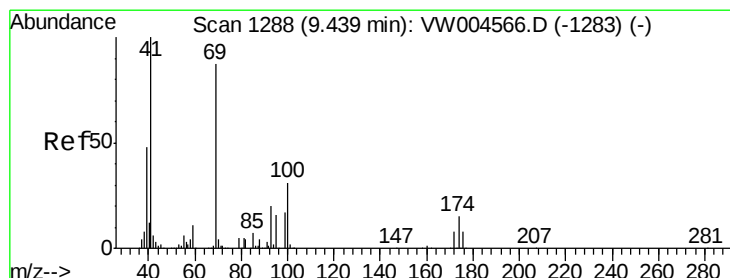
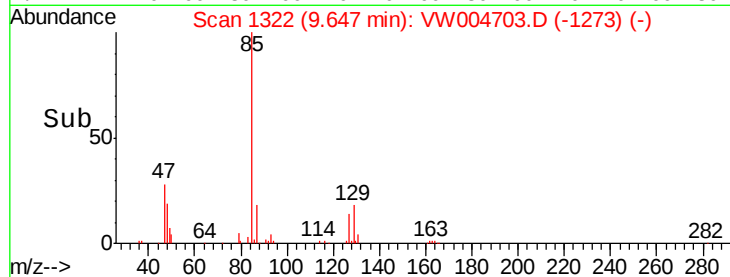
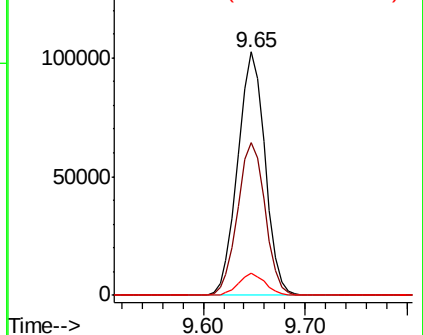
127 8.9 6.5 9.7



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): VW



#48

Methyl methacrylate

Concen: 18.599 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

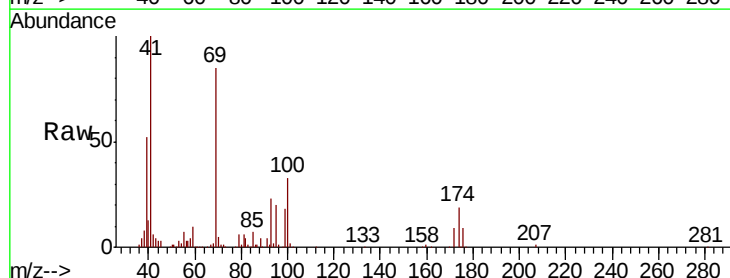
Tgt Ion: 41 Resp: 75186

Ion Ratio Lower Upper

41 100

69 93.7 73.2 109.8

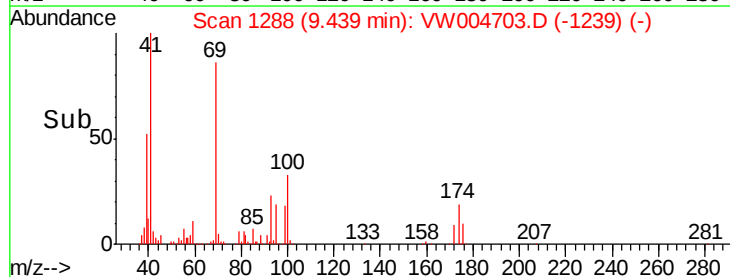
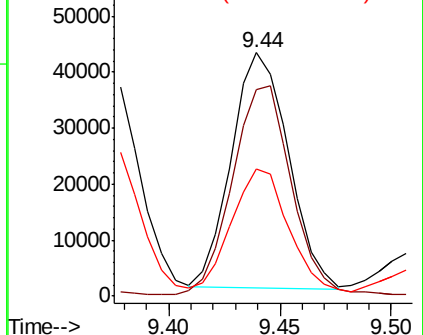
39 51.2 40.6 60.8

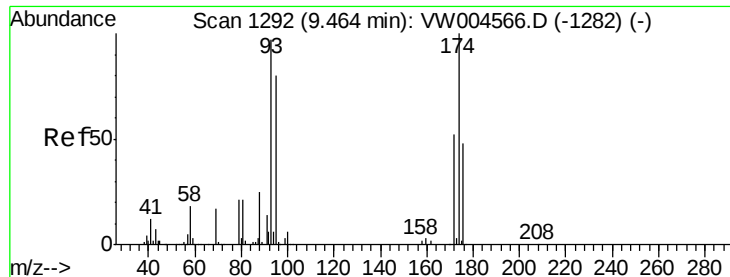


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 389.645 ug/l

RT: 9.46 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

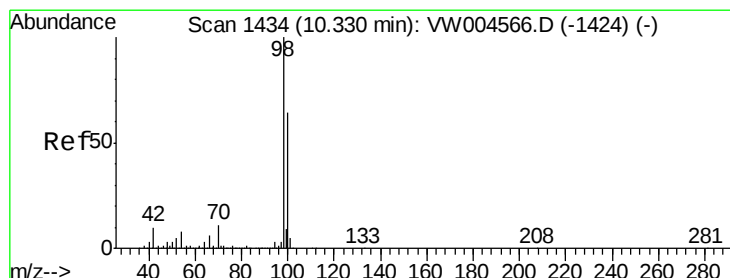
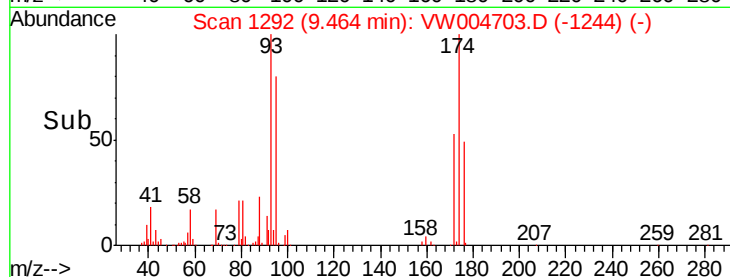
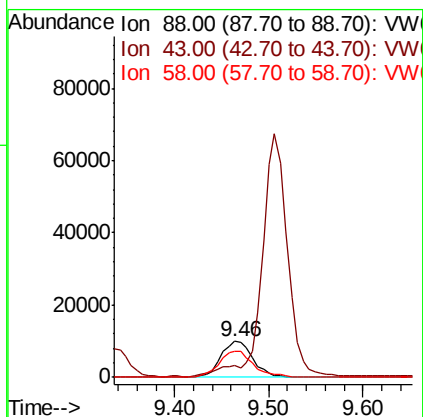
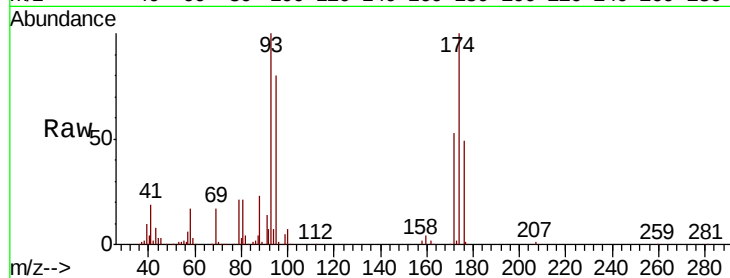
Tot Ion: 88 Resp: 23578

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 79.8 63.5 95.3



#50

Toluene-d8

Concen: 50.210 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004703.D

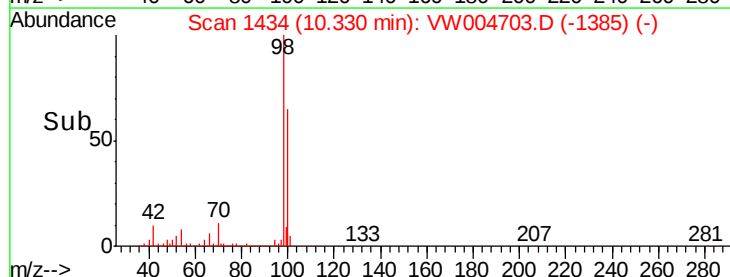
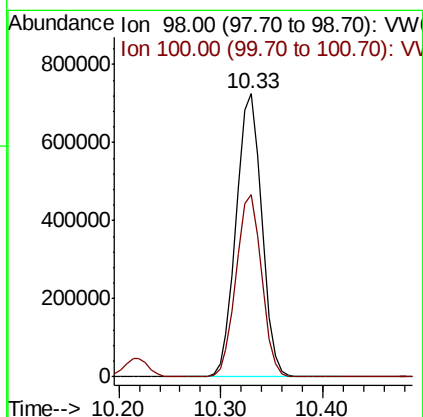
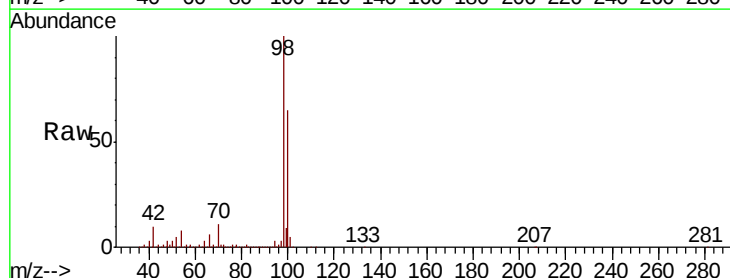
Acq: 15 Aug 2018 19:01

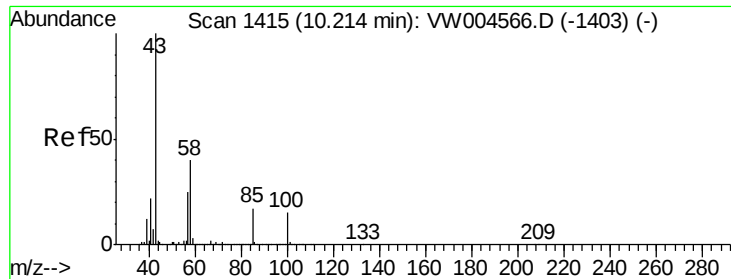
Tgt Ion: 98 Resp: 1255847

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 93.843 ug/l

RT: 10.21 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

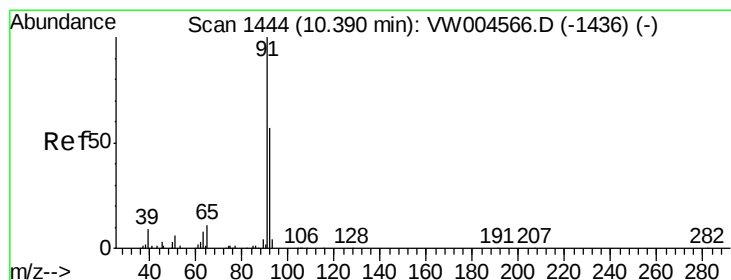
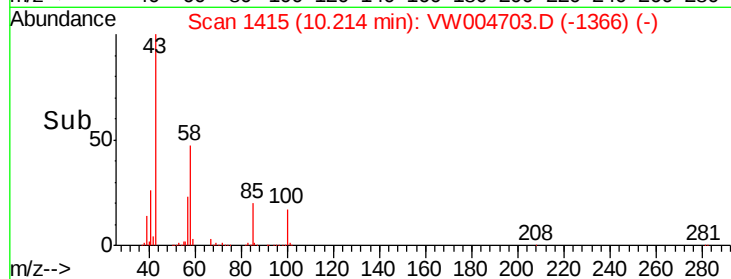
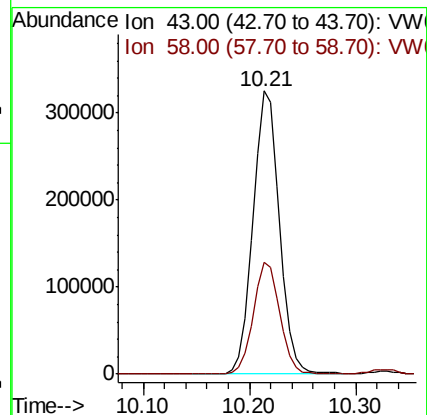
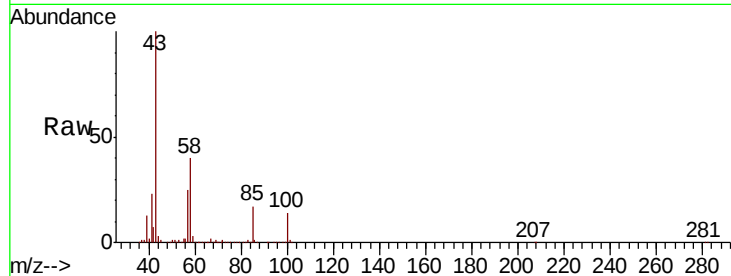
VW0817SBS01

Tot Ion: 43 Resp: 564973

Ion Ratio Lower Upper

43 100

58 39.7 31.9 47.9



#52

Toluene

Concen: 21.729 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW004703.D

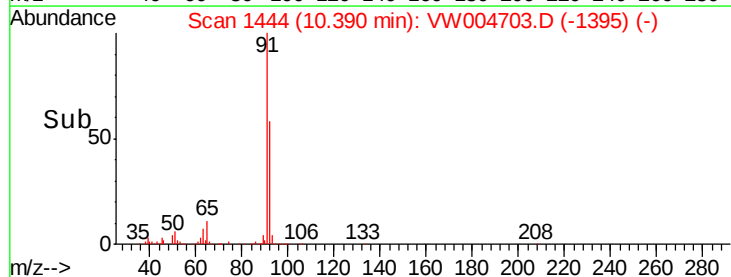
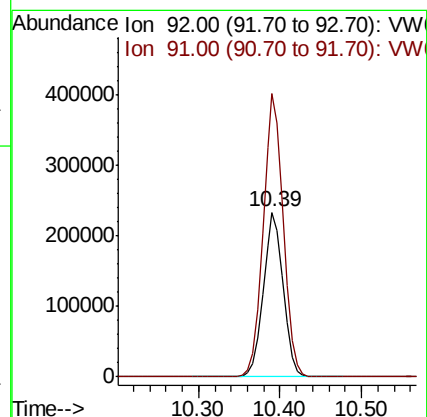
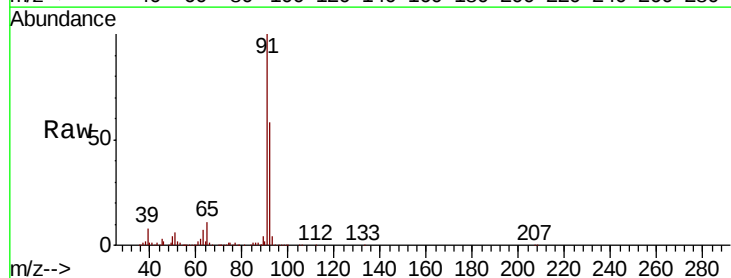
Acq: 15 Aug 2018 19:01

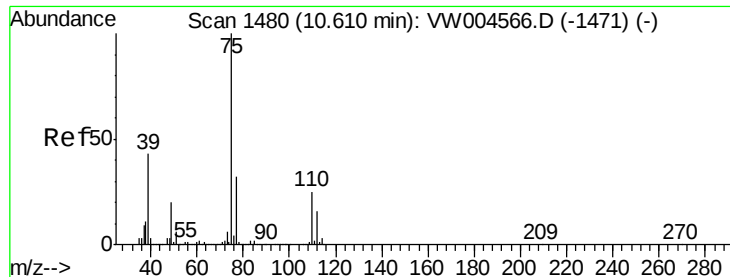
Tgt Ion: 92 Resp: 398636

Ion Ratio Lower Upper

92 100

91 172.9 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 19.921 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

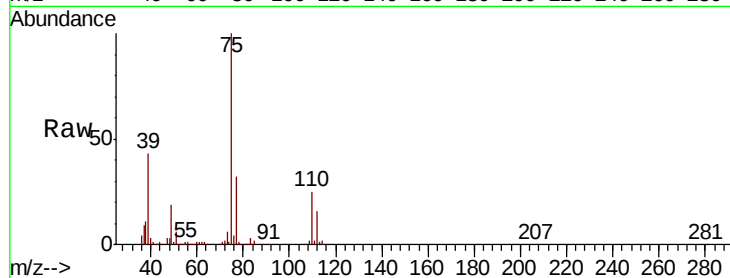
VW0817SBS01

Tot Ion: 75 Resp: 187272

Ion Ratio Lower Upper

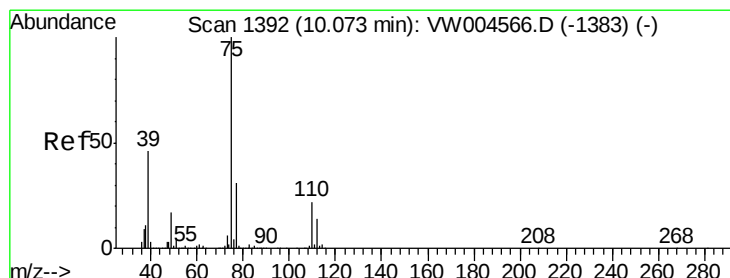
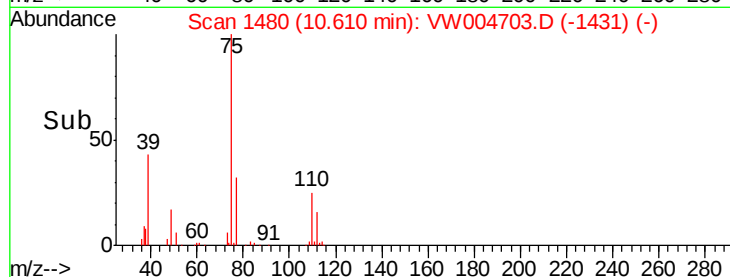
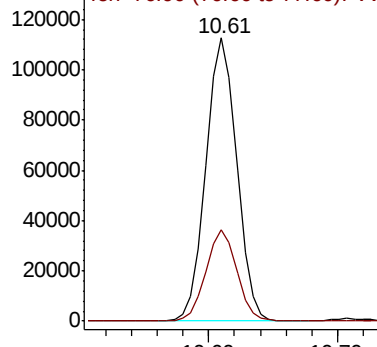
75 100

77 31.9 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#54

cis-1,3-Dichloropropene

Concen: 20.425 ug/l

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

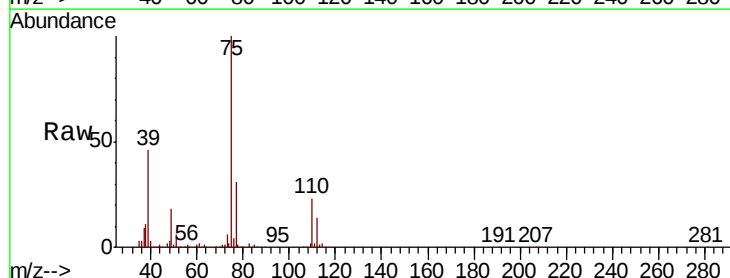
Tgt Ion: 75 Resp: 223774

Ion Ratio Lower Upper

75 100

77 30.9 25.3 37.9

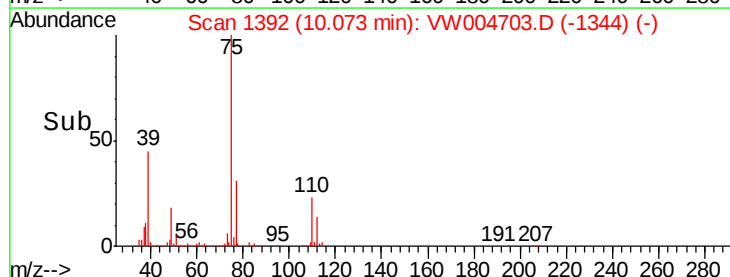
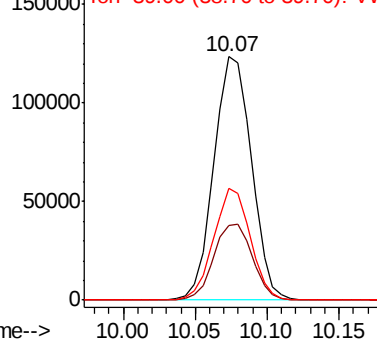
39 45.5 34.5 51.7

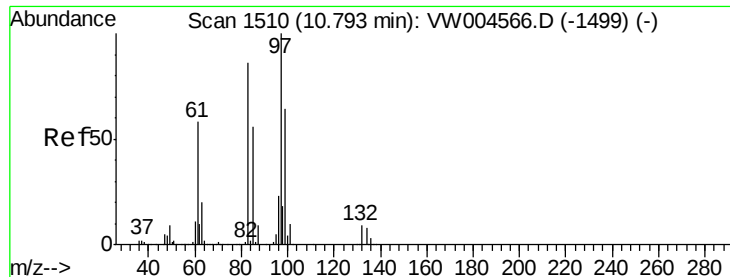


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

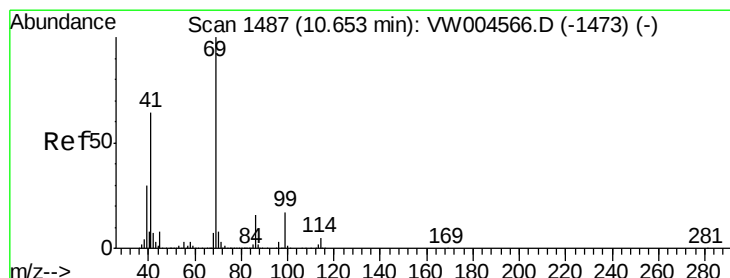
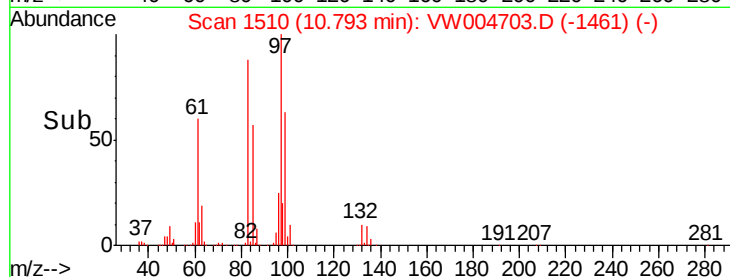
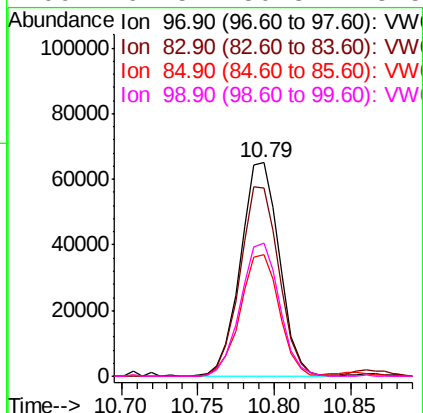
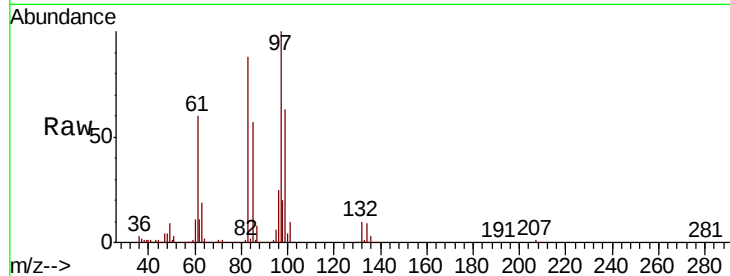




#55  
 1,1,2-Trichloroethane  
 Concen: 20.247 ug/l  
 RT: 10.79 min Scan# 1510  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

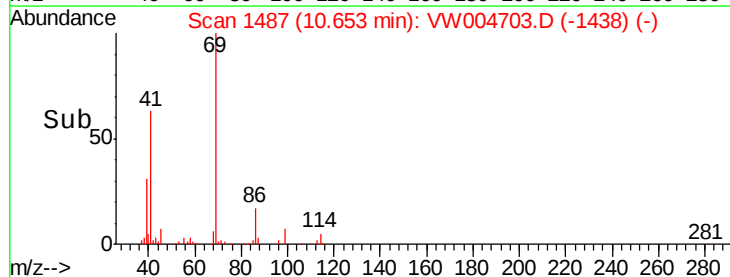
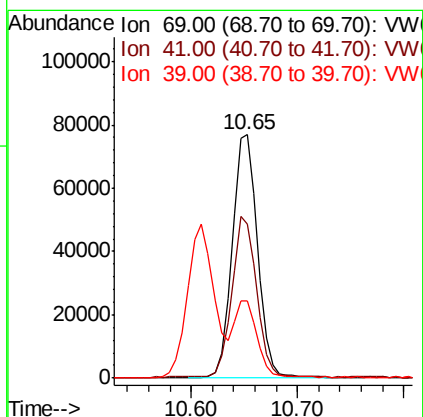
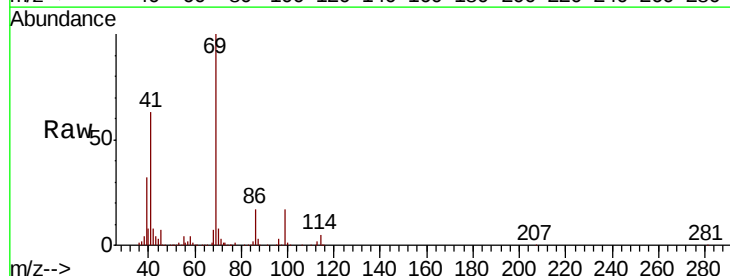
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

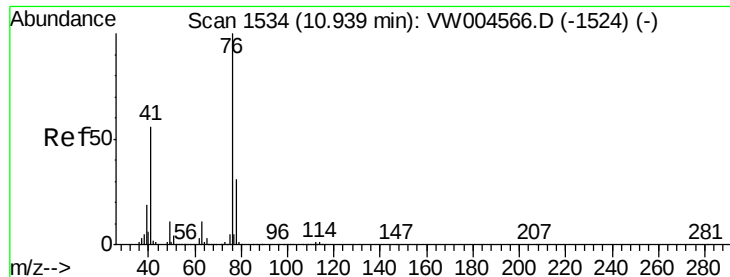
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 115101 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 87.8  | 69.8  | 104.8  |
| 85       | 56.9  | 45.1  | 67.7   |
| 99       | 62.5  | 50.3  | 75.5   |



#56  
 Ethyl methacrylate  
 Concen: 18.861 ug/l  
 RT: 10.65 min Scan# 1487  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 128372 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 64.5  | 52.4  | 78.6   |
| 39       | 28.5  | 22.7  | 34.1   |





#57

1,3-Dichloropropane

Concen: 20.267 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

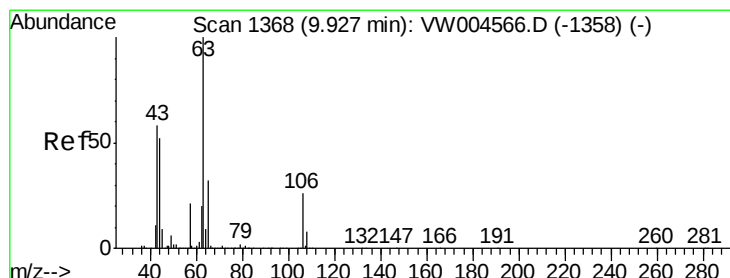
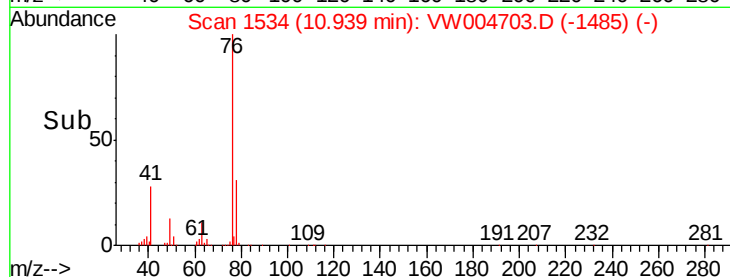
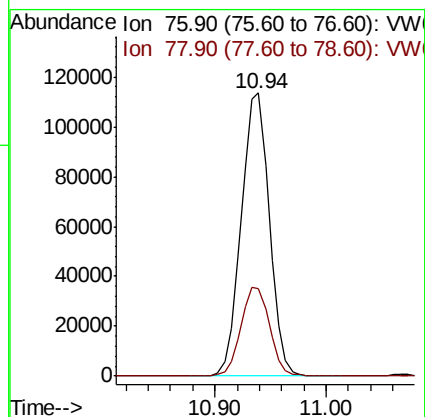
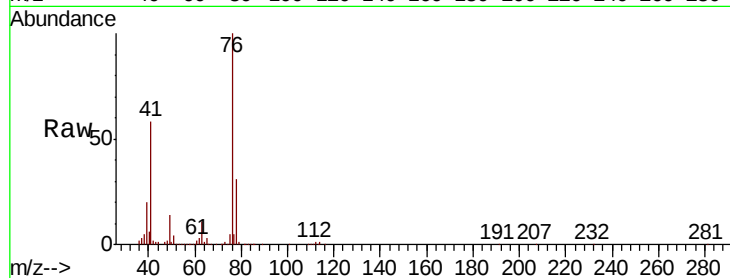
VW0817SBS01

Tot Ion: 76 Resp: 198582

Ion Ratio Lower Upper

76 100

78 32.3 25.7 38.5



#58

2-Chloroethyl Vinyl ether

Concen: 95.131 ug/l

RT: 9.93 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VW004703.D

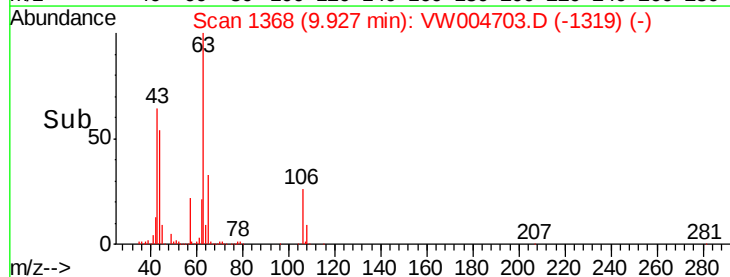
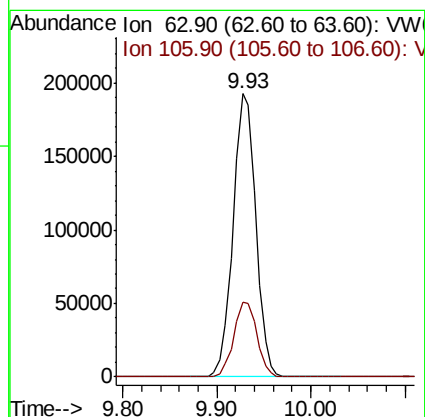
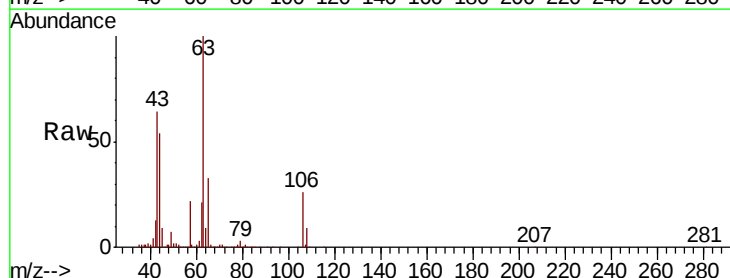
Acq: 15 Aug 2018 19:01

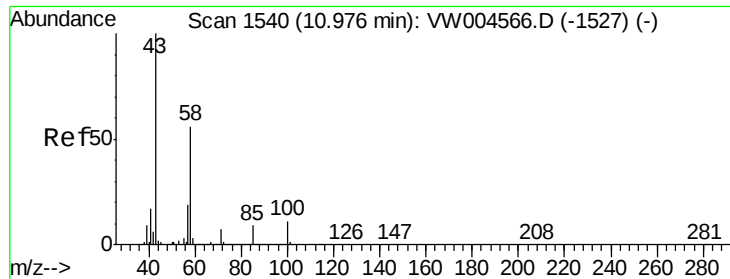
Tgt Ion: 63 Resp: 323088

Ion Ratio Lower Upper

63 100

106 26.8 21.3 31.9

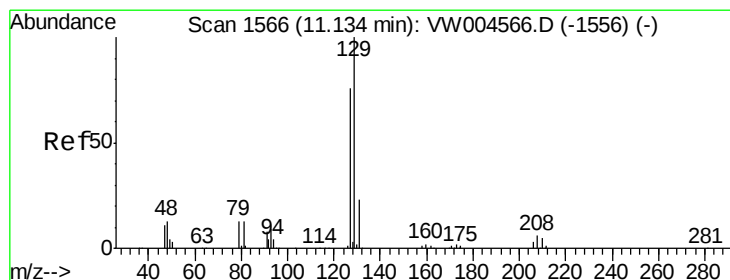
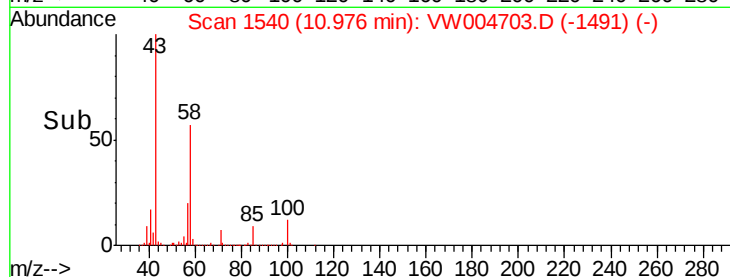
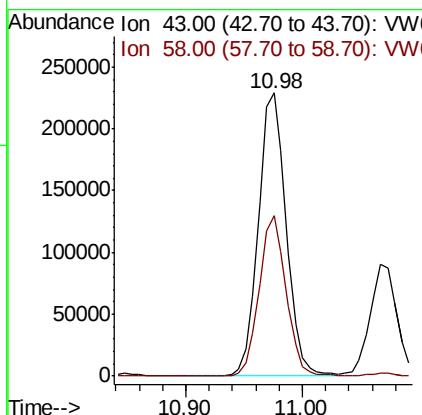
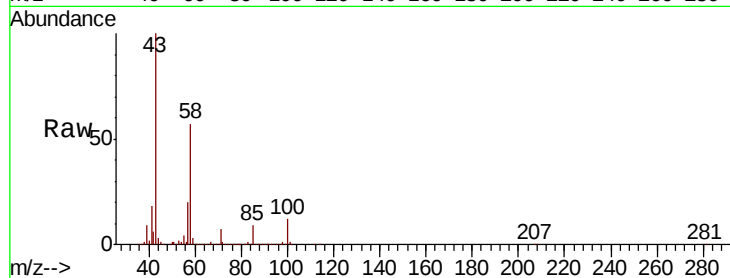




#59  
2-Hexanone  
Concen: 92.792 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

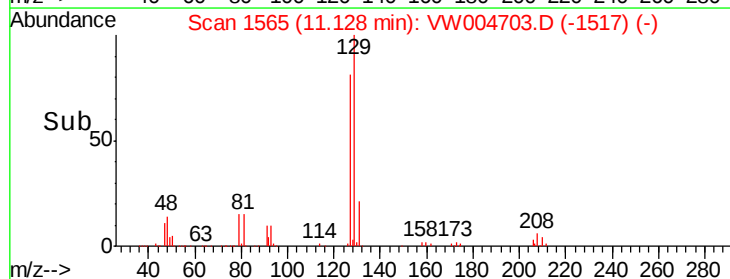
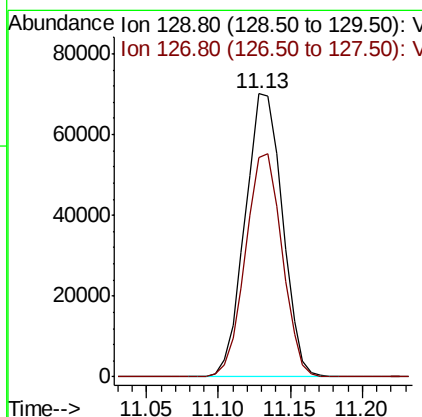
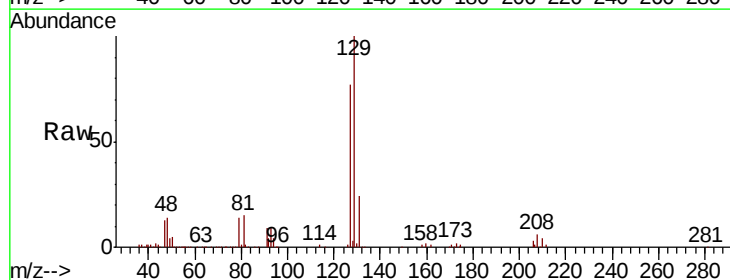
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0817SBS01

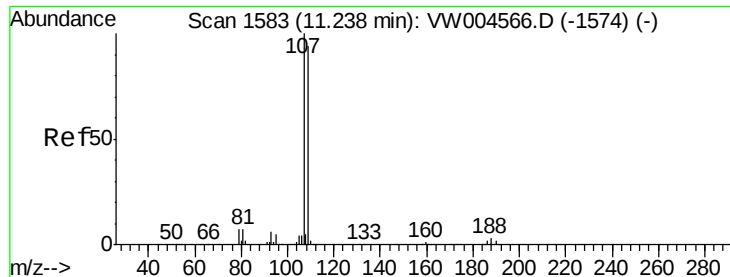
Tot Ion: 43 Resp: 378763  
Ion Ratio Lower Upper  
43 100  
58 55.0 27.9 83.6



#60  
Dibromochloromethane  
Concen: 20.390 ug/l  
RT: 11.13 min Scan# 1565  
Delta R.T. -0.01 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 129 Resp: 126077  
Ion Ratio Lower Upper  
129 100  
127 77.3 38.6 115.8

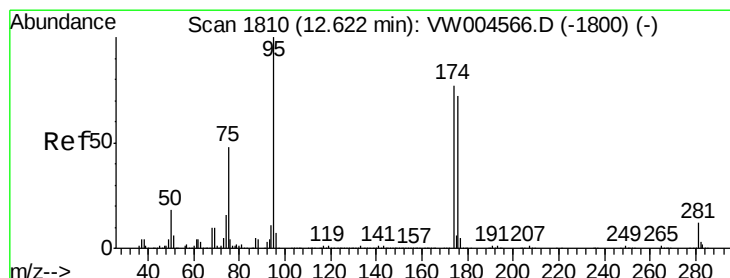
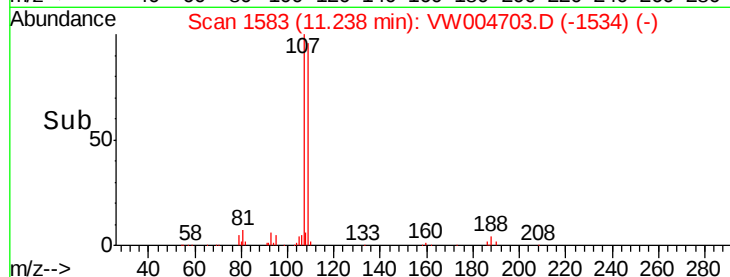
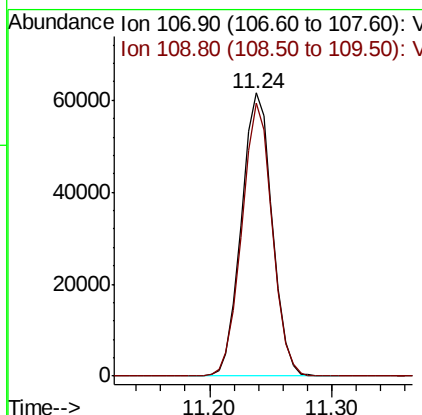
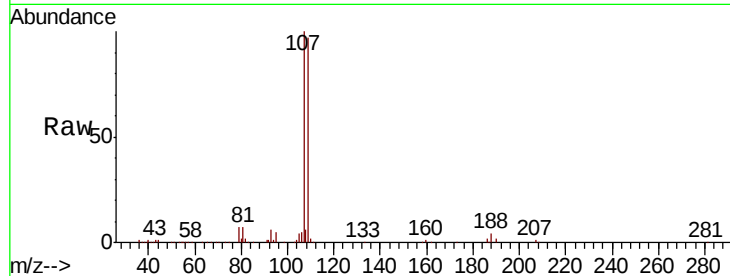




#61  
 1,2-Dibromoethane  
 Concen: 20.152 ug/l  
 RT: 11.24 min Scan# 1583  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

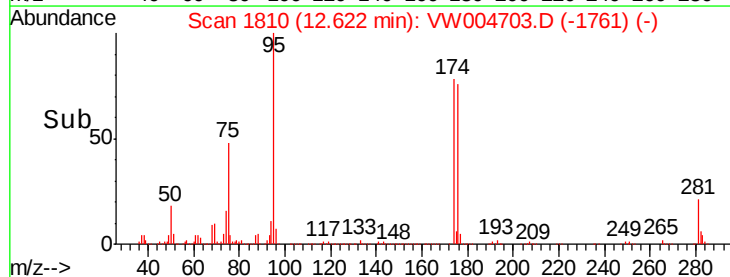
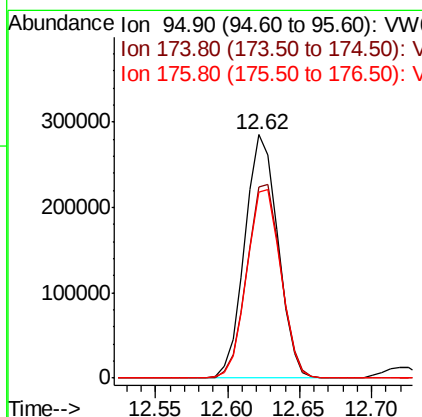
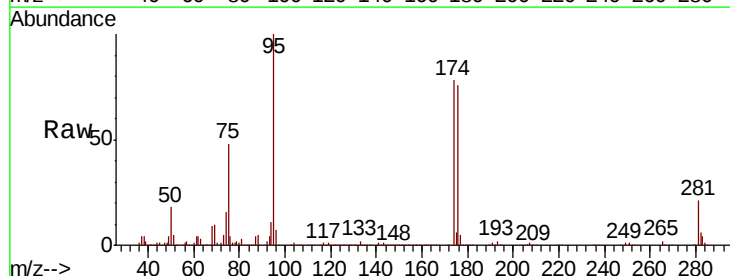
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

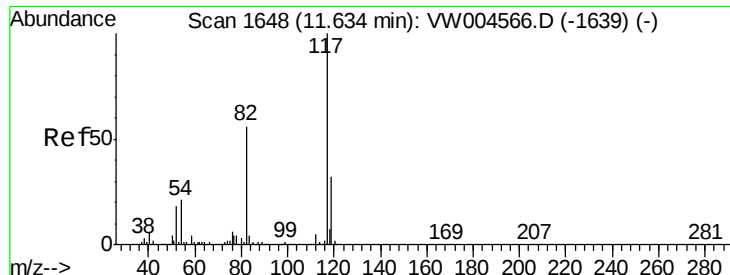
Tot Ion: 107 Resp: 107628  
 Ion Ratio Lower Upper  
 107 100  
 109 95.1 75.7 113.5



#62  
 4-Bromofluorobenzene  
 Concen: 50.383 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion: 95 Resp: 453932  
 Ion Ratio Lower Upper  
 95 100  
 174 81.3 0.0 160.4  
 176 79.3 0.0 153.2

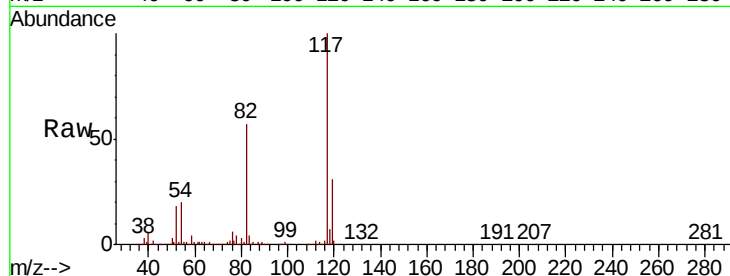




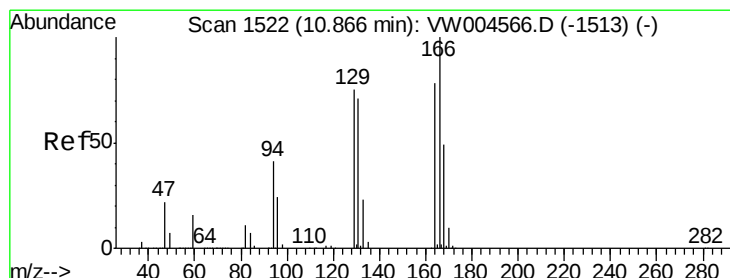
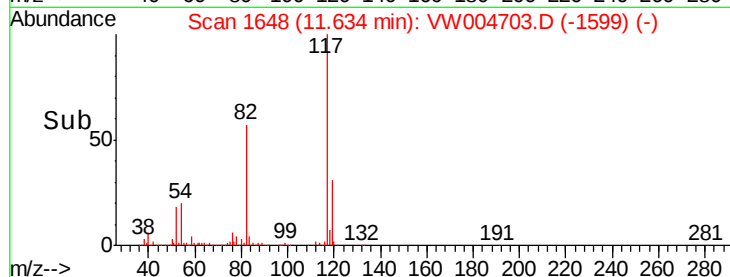
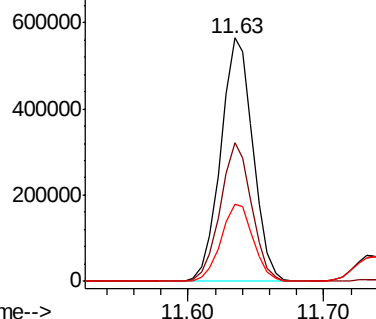
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

Tot Ion:117 Resp: 936657  
Ion Ratio Lower Upper  
117 100  
82 56.8 45.3 67.9  
119 31.5 26.2 39.4

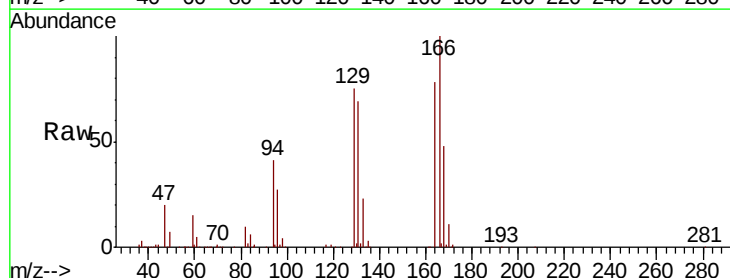


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

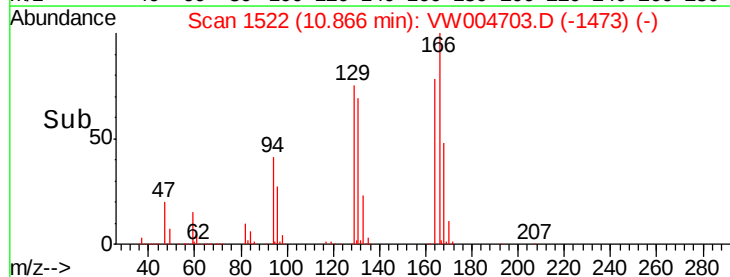
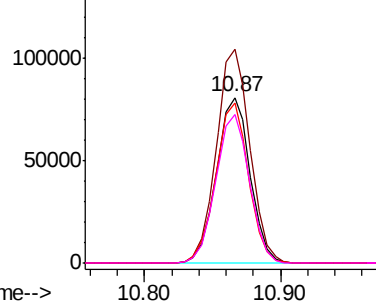


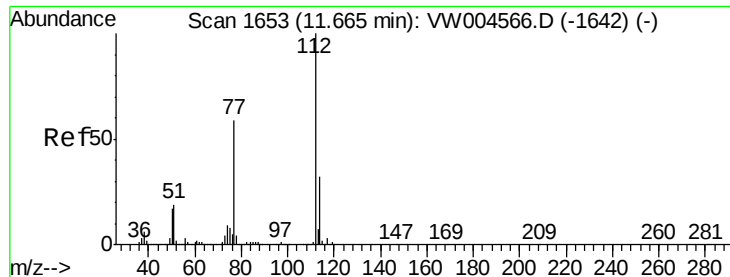
#64  
Tetrachloroethene  
Concen: 21.399 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion:164 Resp: 139823  
Ion Ratio Lower Upper  
164 100  
166 128.8 98.4 147.6  
129 96.9 73.6 110.4  
131 89.4 73.1 109.7



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.340 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

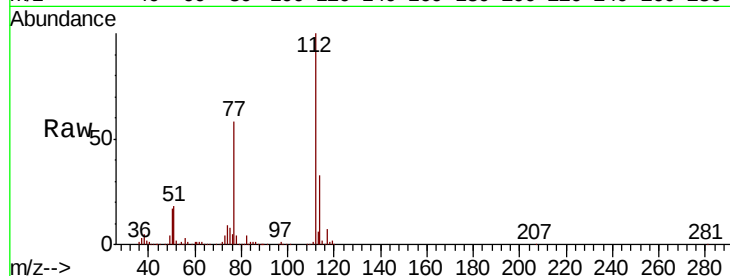
VW0817SBS01

Tot Ion:112 Resp: 440497

Ion Ratio Lower Upper

112 100

114 32.5 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

300000

250000

200000

150000

100000

50000

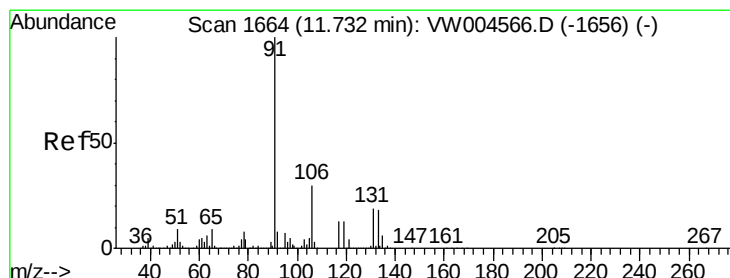
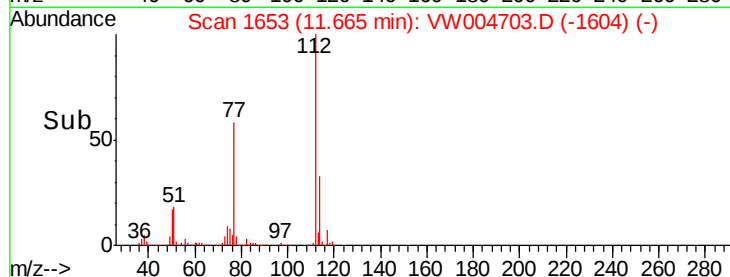
0

11.60

11.66

11.70

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.858 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

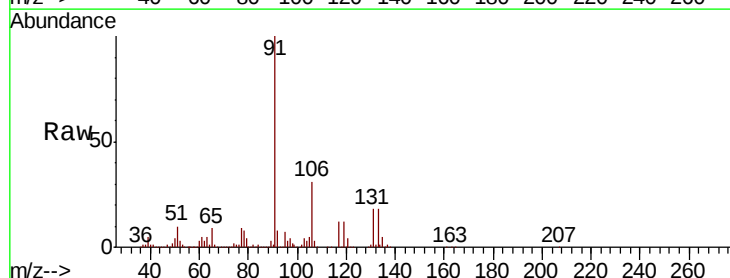
Tgt Ion:131 Resp: 146585

Ion Ratio Lower Upper

131 100

133 95.4 48.1 144.4

119 66.8 33.9 101.7



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

200000

150000

100000

50000

0

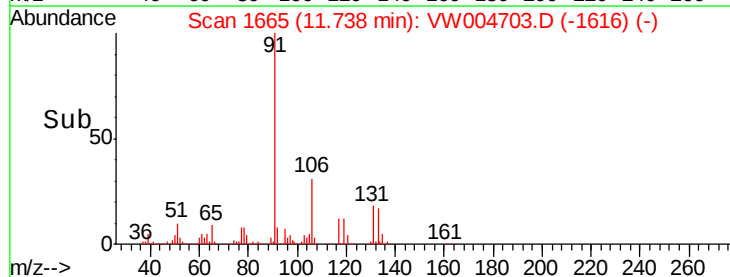
11.65

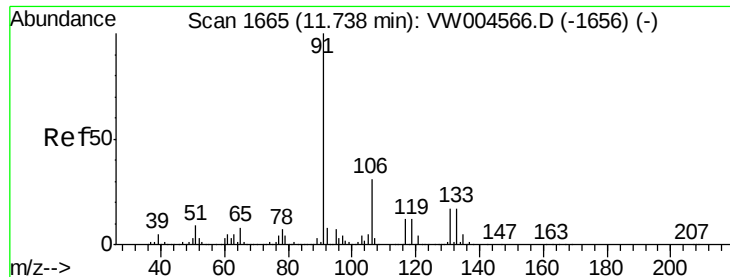
11.70

11.74

11.80

Time-->

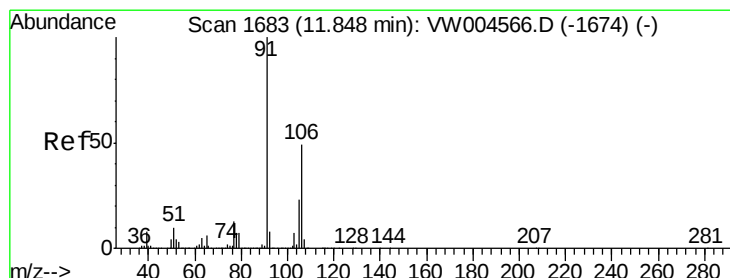
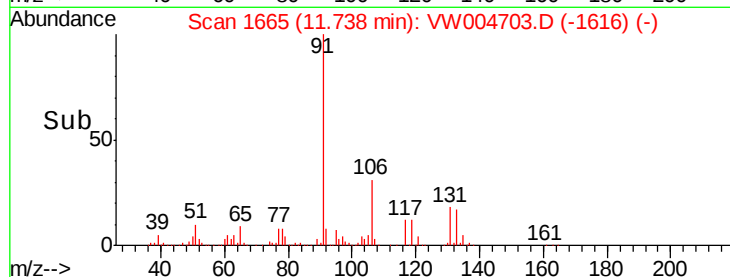
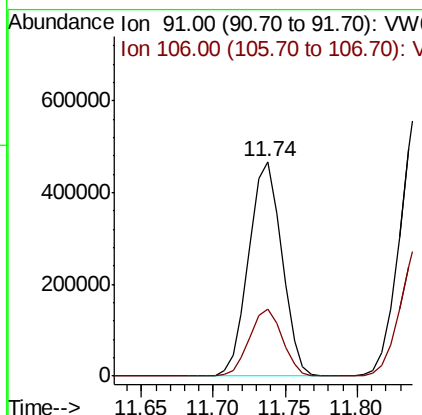
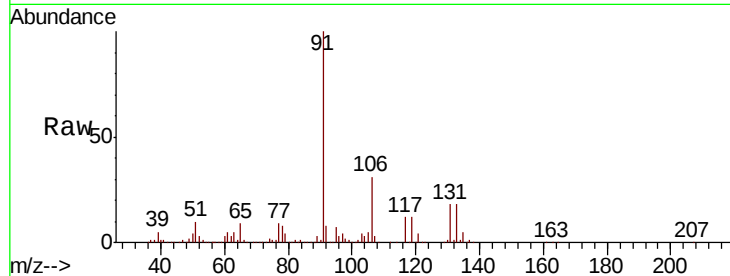




#67  
Ethyl Benzene  
Concen: 21.319 ug/l  
RT: 11.74 min Scan# 1665  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

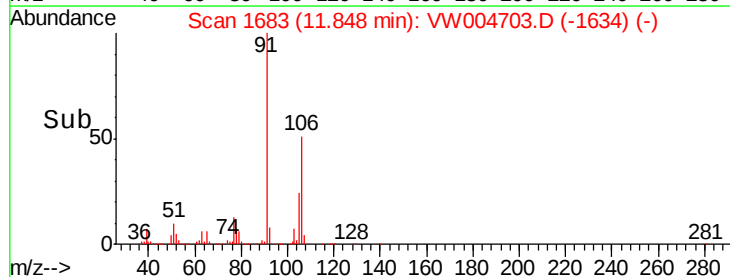
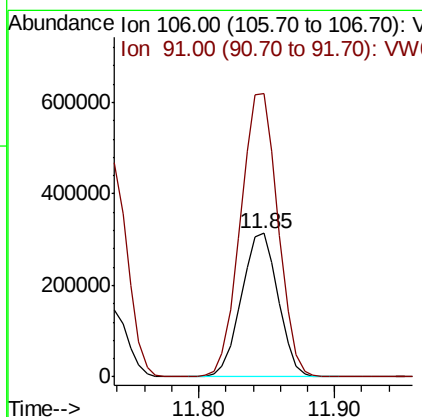
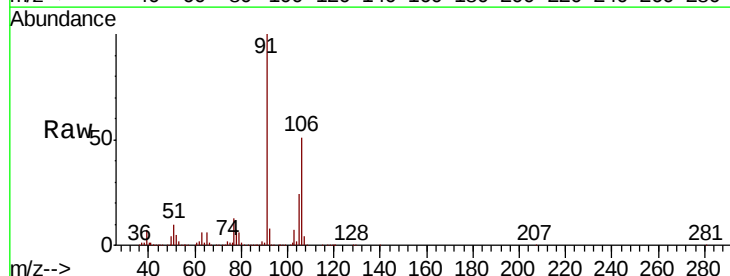
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

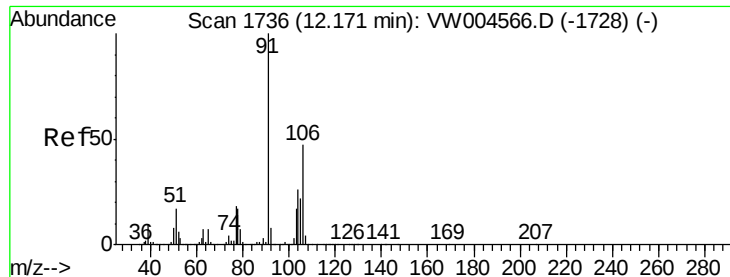
Tot Ion: 91 Resp: 746013  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.2 36.2



#68  
m/p-Xylenes  
Concen: 43.941 ug/l  
RT: 11.85 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 106 Resp: 594228  
Ion Ratio Lower Upper  
106 100  
91 200.5 162.8 244.2

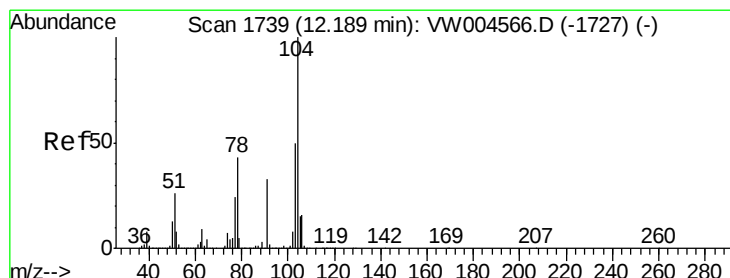
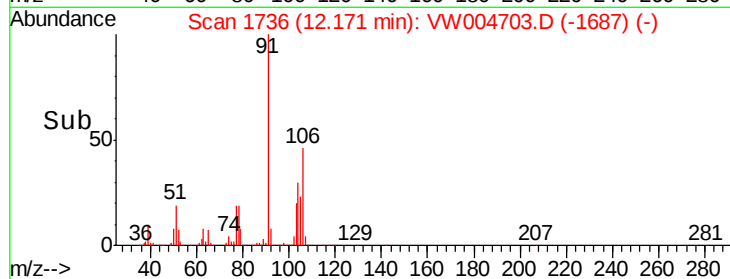
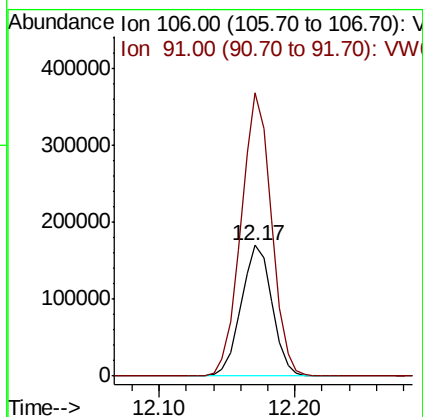
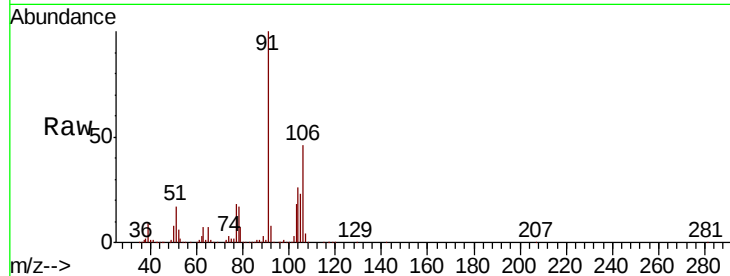




#69  
o-Xylene  
Concen: 21.580 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

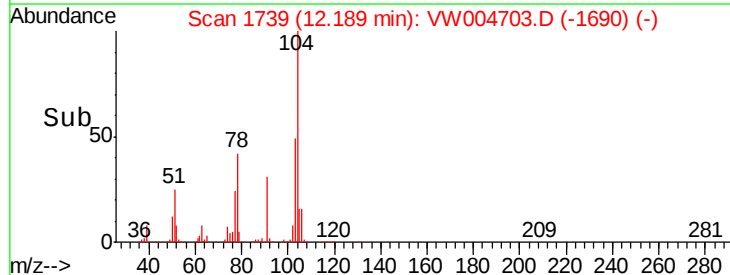
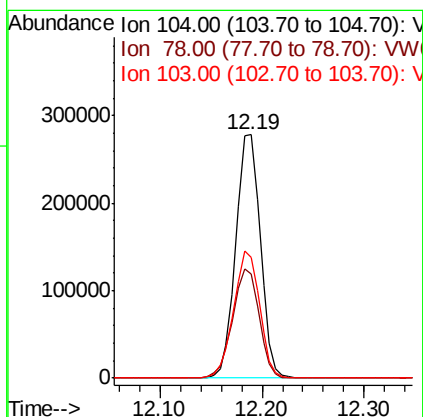
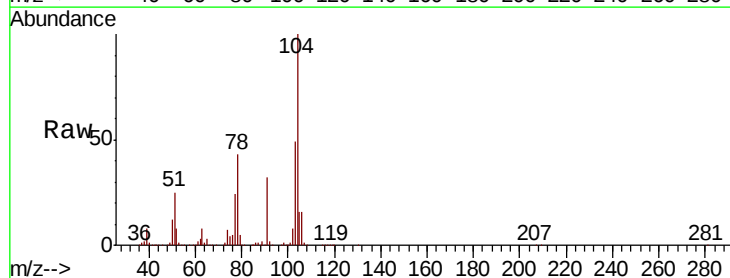
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

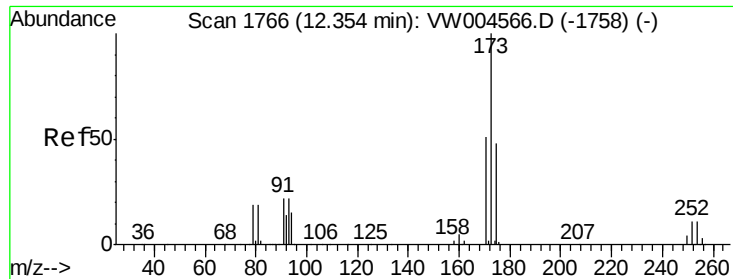
Tot Ion:106 Resp: 270648  
Ion Ratio Lower Upper  
106 100  
91 212.8 106.7 320.2



#70  
Styrene  
Concen: 21.954 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion:104 Resp: 465211  
Ion Ratio Lower Upper  
104 100  
78 48.1 39.0 58.4  
103 54.7 44.2 66.2

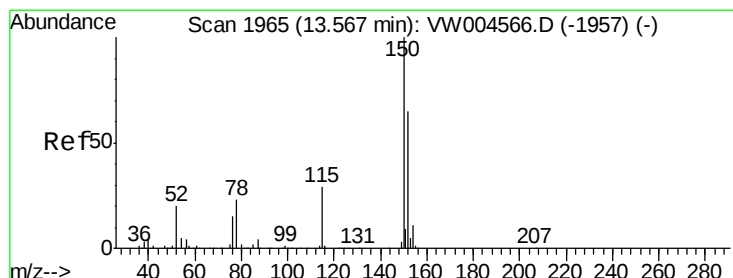
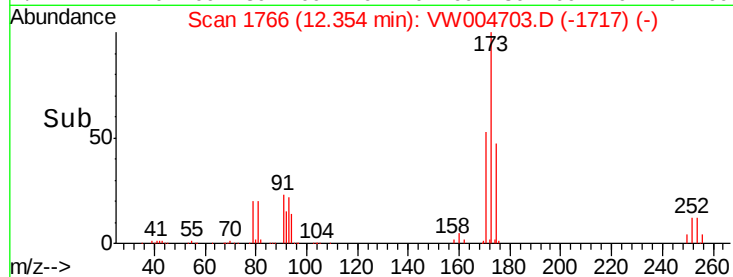
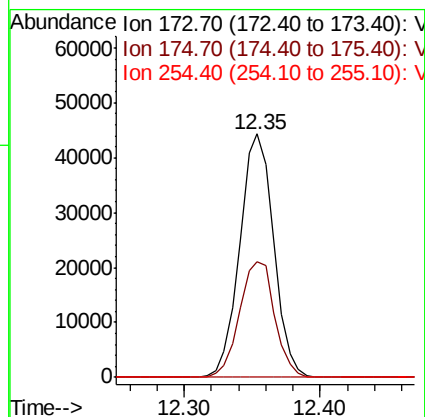
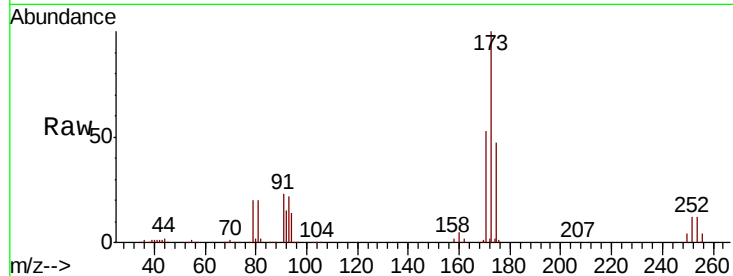




#71  
 Bromoform  
 Concen: 19.918 ug/l  
 RT: 12.35 min Scan# 1766  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

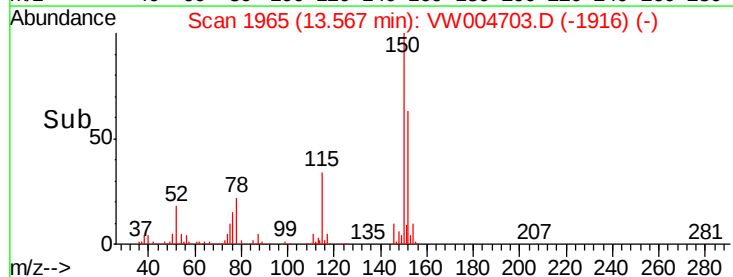
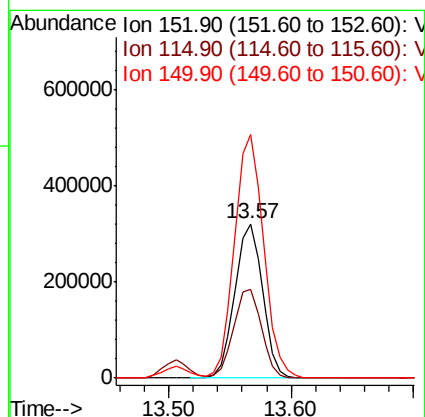
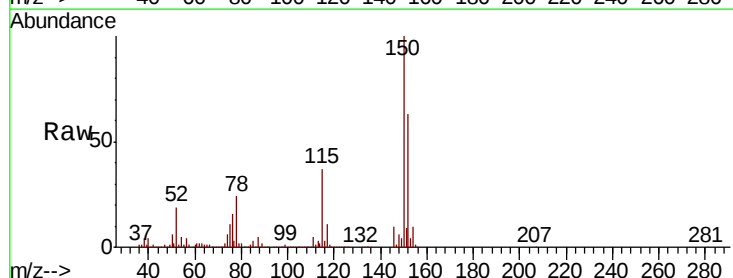
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

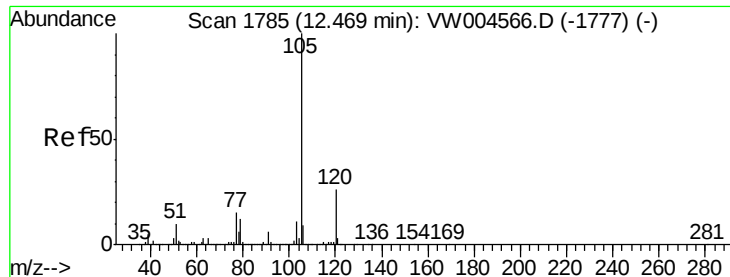
Tot Ion:173 Resp: 76951  
 Ion Ratio Lower Upper  
 173 100  
 175 49.2 24.5 73.5  
 254 0.0 0.2 0.2#



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.57 min Scan# 1965  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion:152 Resp: 503059  
 Ion Ratio Lower Upper  
 152 100  
 115 58.0 29.1 87.3  
 150 165.5 0.0 349.6





#73

Isopropylbenzene

Concen: 21.520 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampled :

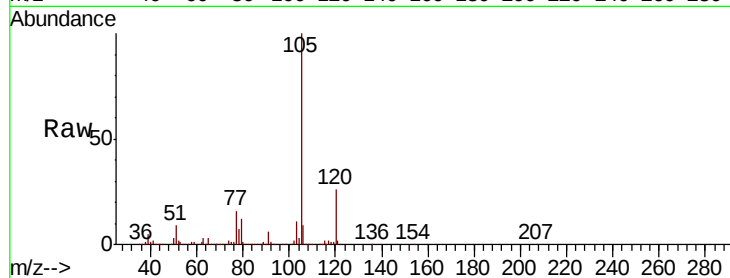
VW0817SBS01

Tot Ion:105 Resp: 748817

Ion Ratio Lower Upper

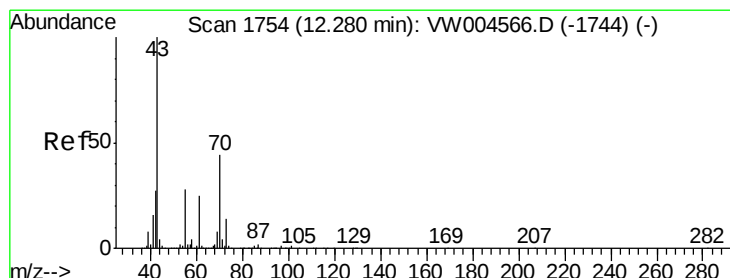
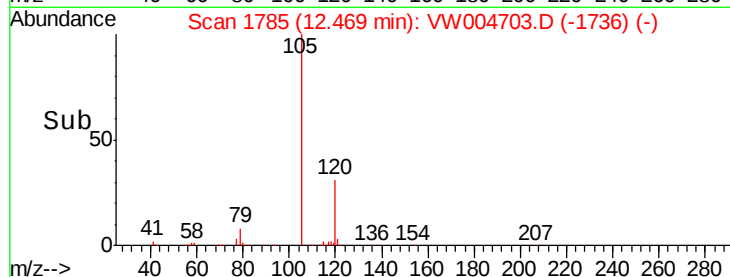
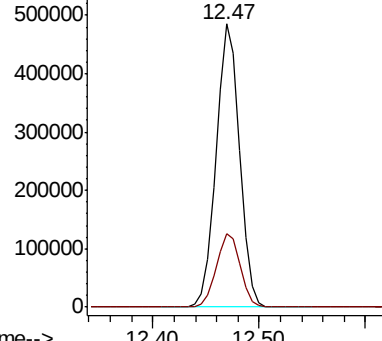
105 100

120 26.3 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.292 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Tgt Ion: 43 Resp: 154338

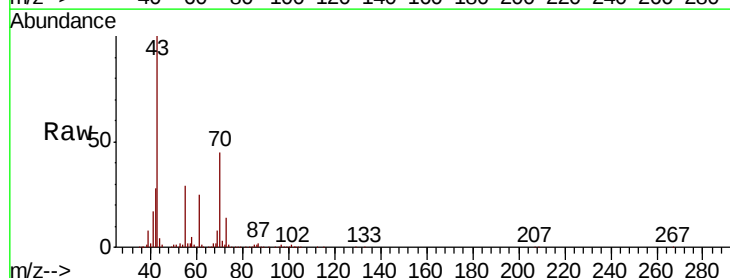
Ion Ratio Lower Upper

43 100

70 45.1 35.3 52.9

55 30.3 22.9 34.3

61 24.8 19.7 29.5

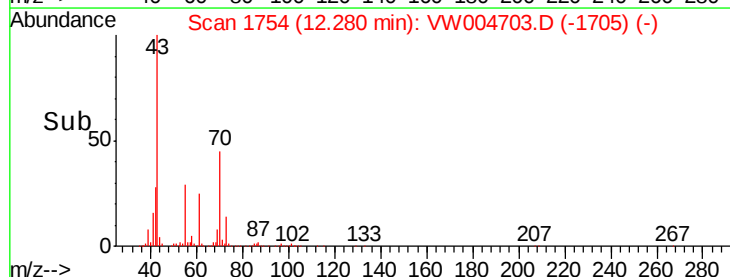
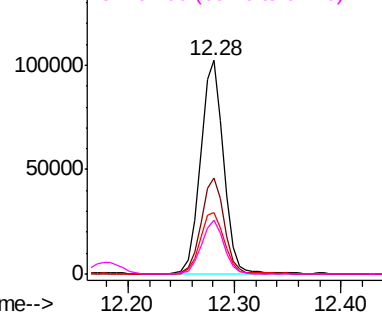


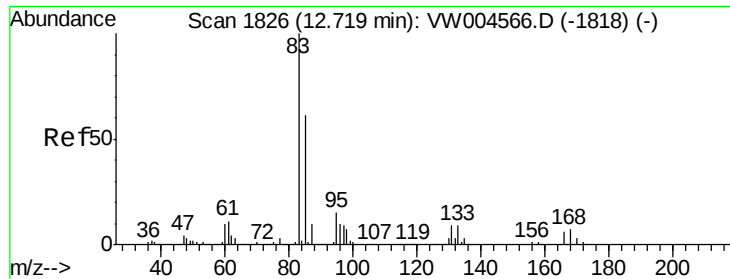
Abundance Ion 43.00 (42.70 to 43.70): VW

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





#75

1,1,2,2-Tetrachloroethane

Concen: 19.414 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

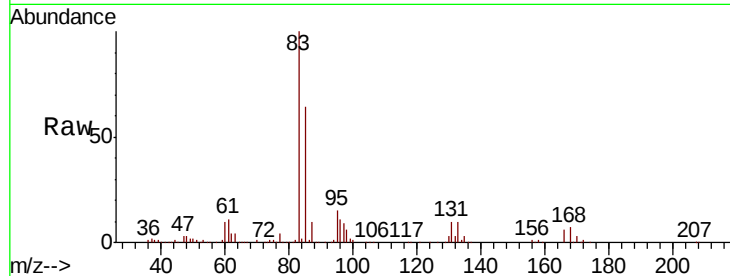
Tot Ion: 83 Resp: 141018

Ion Ratio Lower Upper

83 100

131 10.5 5.0 15.0

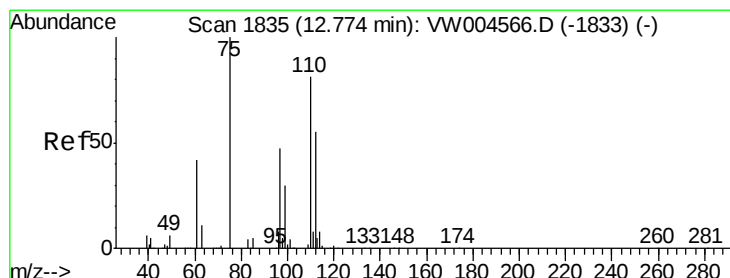
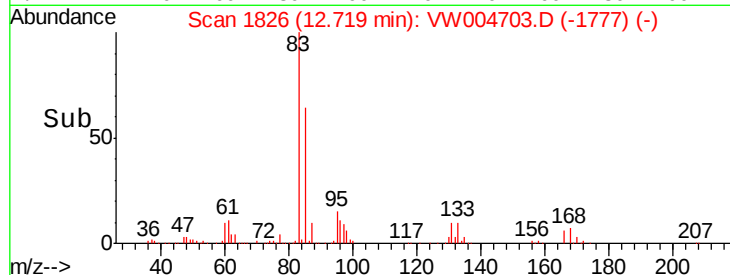
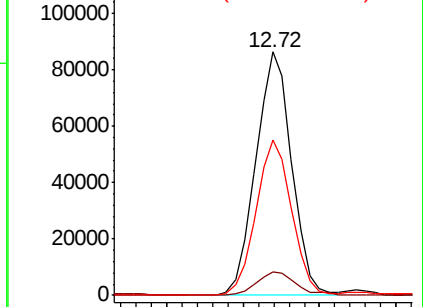
85 63.6 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 34.073 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VW004703.D

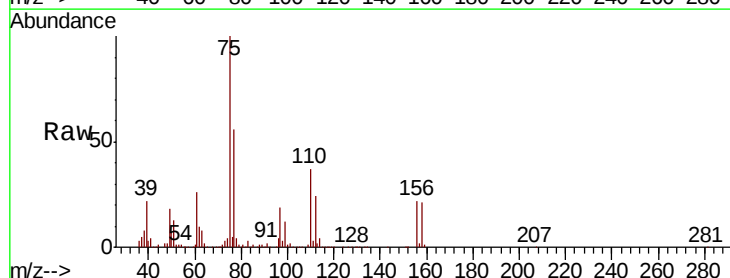
Acq: 15 Aug 2018 19:01

Tgt Ion: 75 Resp: 177367

Ion Ratio Lower Upper

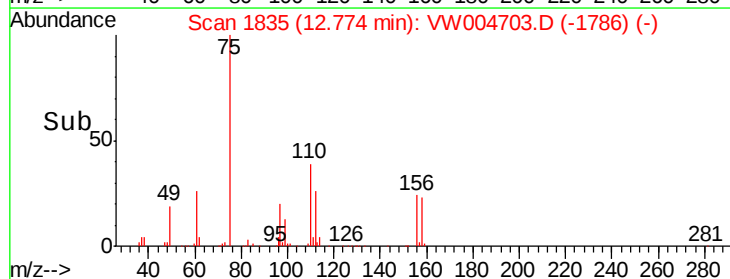
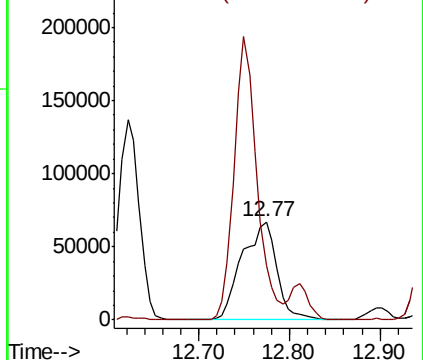
75 100

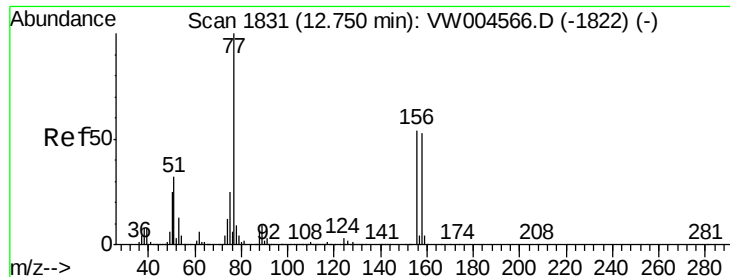
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

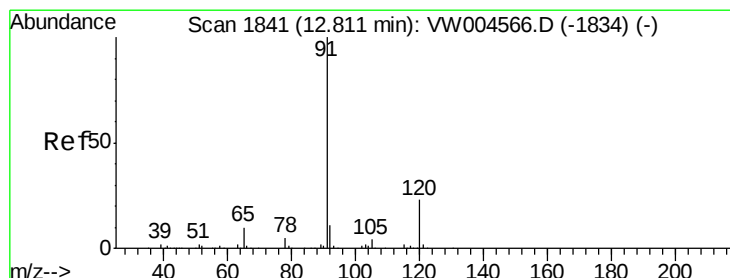
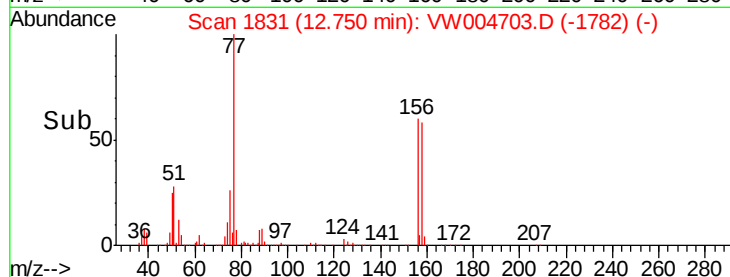
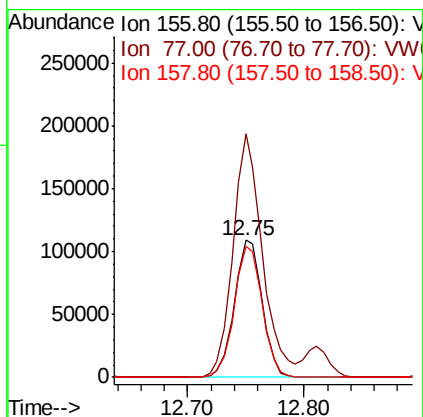
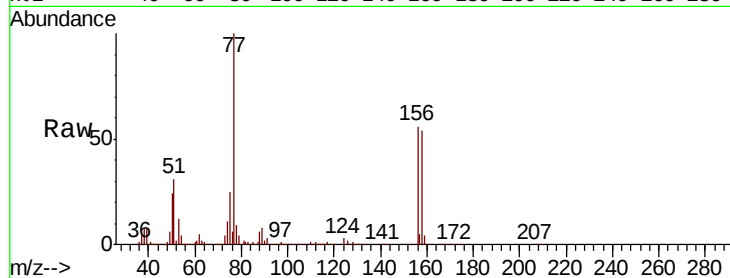




#77  
Bromobenzene  
Concen: 21.477 ug/l  
RT: 12.75 min Scan# 1831  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

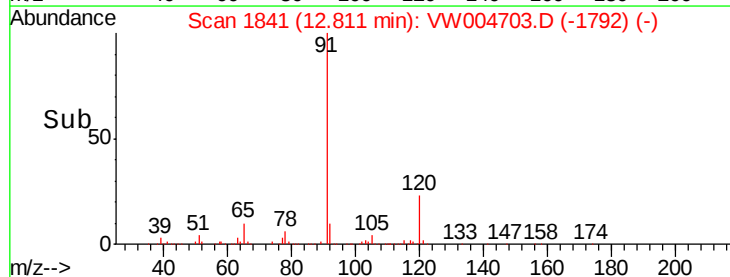
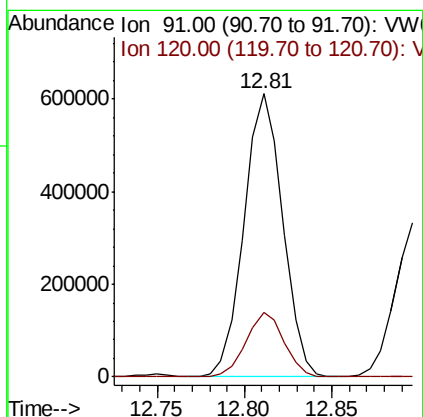
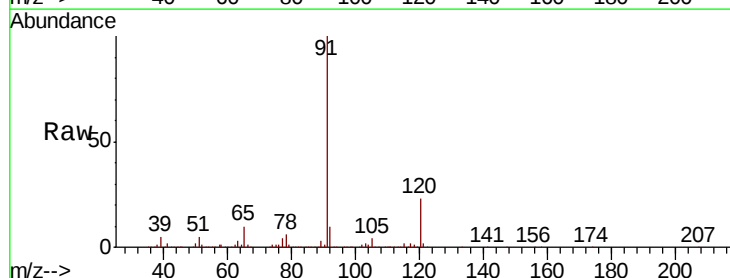
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

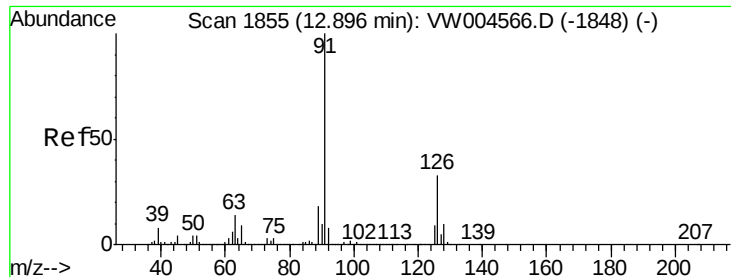
Tot Ion:156 Resp: 180812  
Ion Ratio Lower Upper  
156 100  
77 188.0 98.7 296.1  
158 96.4 48.7 146.1



#78  
n-propylbenzene  
Concen: 21.782 ug/l  
RT: 12.81 min Scan# 1841  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion: 91 Resp: 935245  
Ion Ratio Lower Upper  
91 100  
120 22.5 11.3 33.9

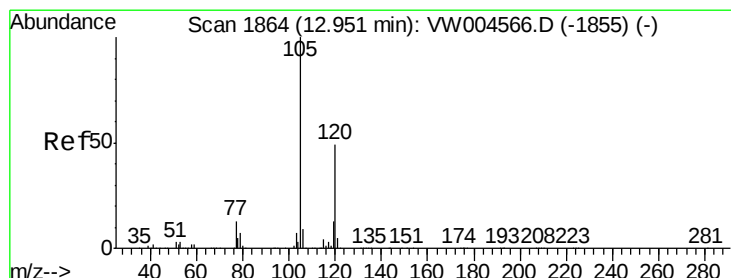
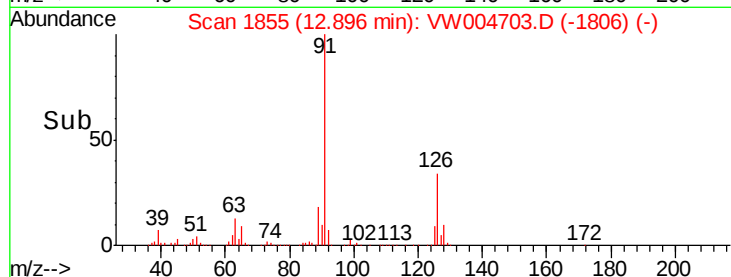
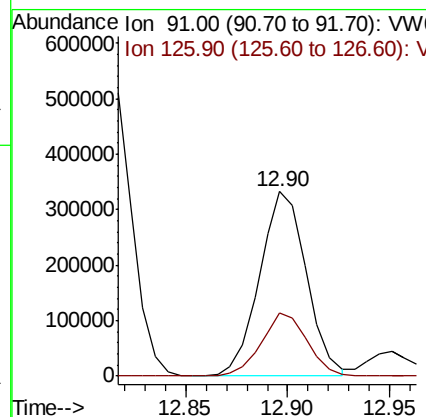
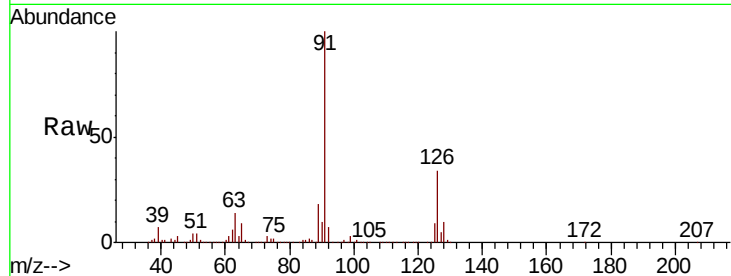




#79  
 2-Chlorotoluene  
 Concen: 21.252 ug/l  
 RT: 12.90 min Scan# 1855  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

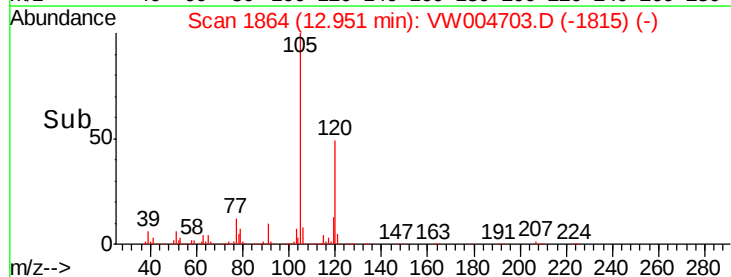
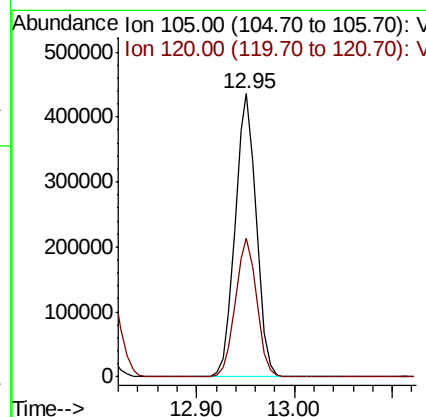
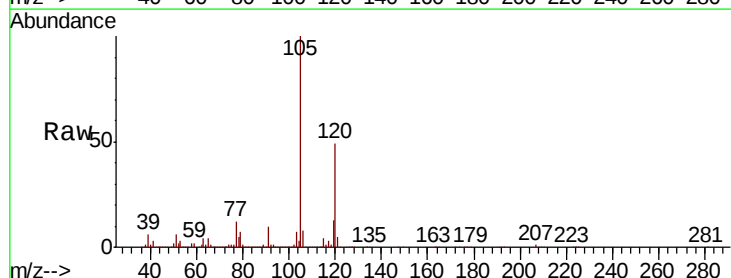
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

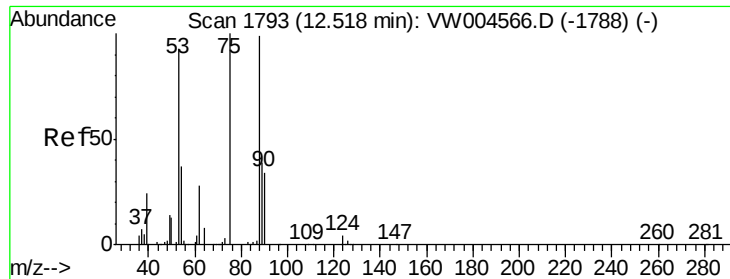
Tot Ion: 91 Resp: 528057  
 Ion Ratio Lower Upper  
 91 100  
 126 33.7 16.6 49.8



#80  
 1,3,5-Trimethylbenzene  
 Concen: 21.914 ug/l  
 RT: 12.95 min Scan# 1864  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion: 105 Resp: 650476  
 Ion Ratio Lower Upper  
 105 100  
 120 49.5 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 17.866 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

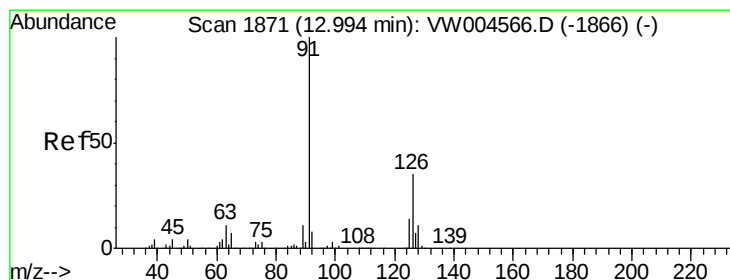
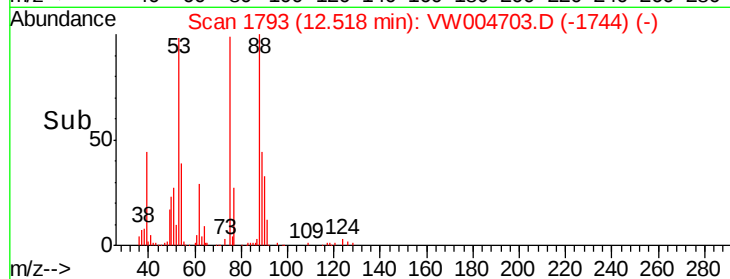
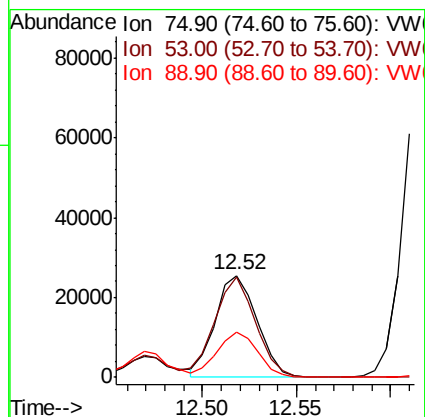
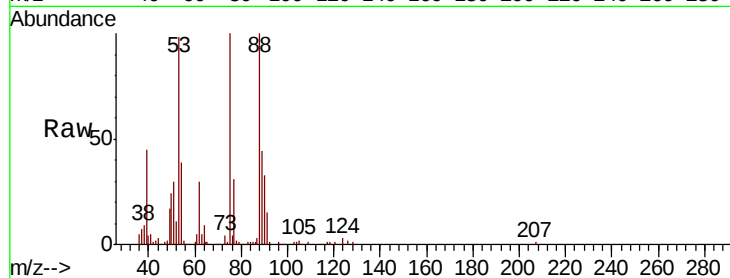
Tot Ion: 75 Resp: 38851

Ion Ratio Lower Upper

75 100

53 97.2 74.4 111.6

89 44.1 35.9 53.9



#82

4-Chlorotoluene

Concen: 21.722 ug/l

RT: 12.99 min Scan# 1871

Delta R.T. 0.00 min

Lab File: VW004703.D

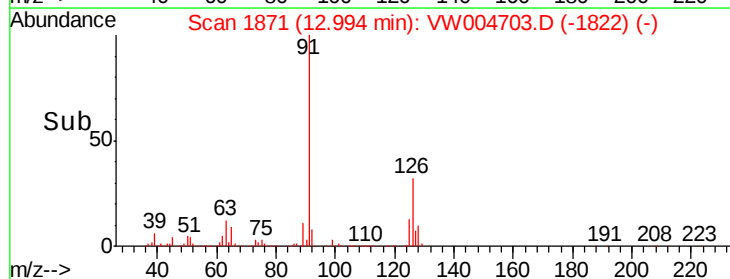
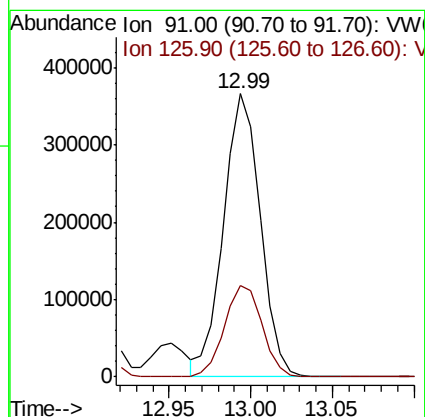
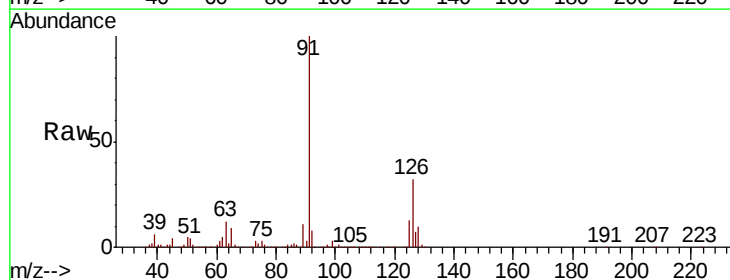
Acq: 15 Aug 2018 19:01

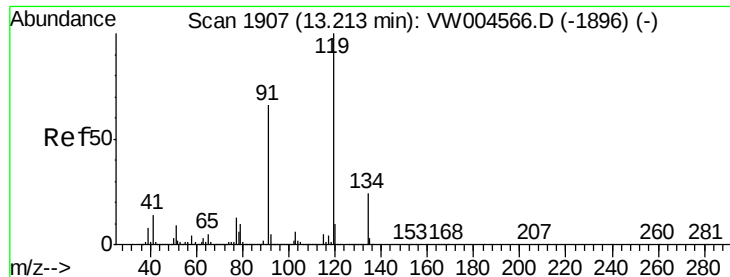
Tgt Ion: 91 Resp: 572801

Ion Ratio Lower Upper

91 100

126 33.3 16.5 49.5

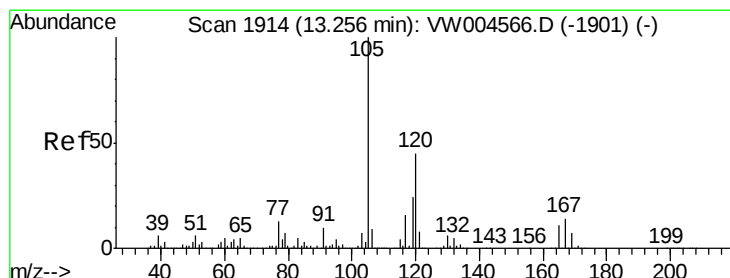
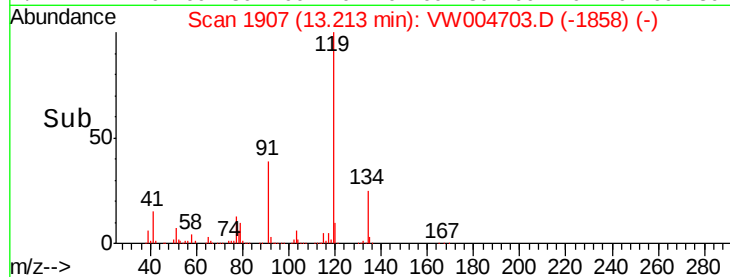
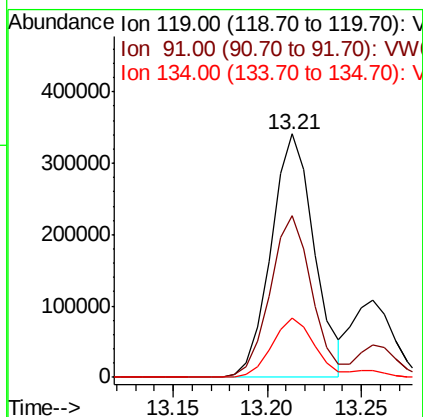
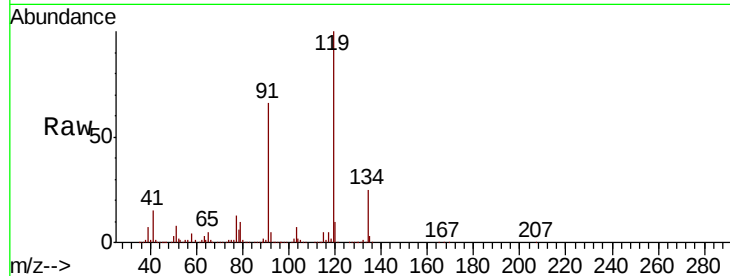




#83  
tert-Butylbenzene  
Concen: 21.718 ug/l  
RT: 13.21 min Scan# 1907  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

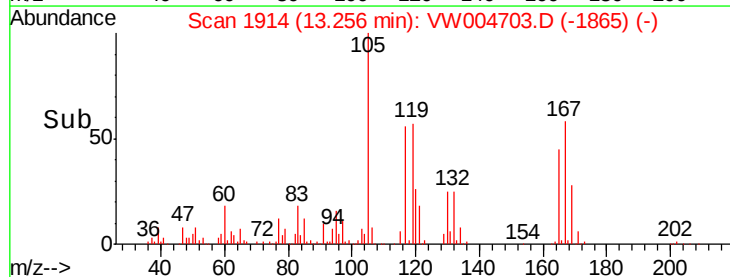
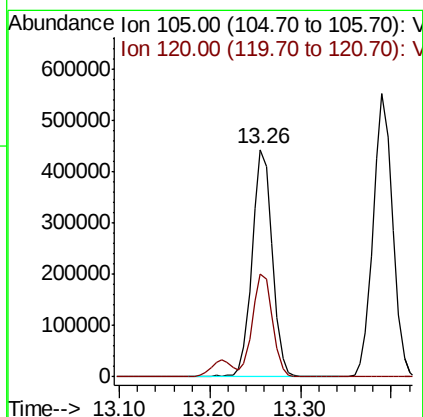
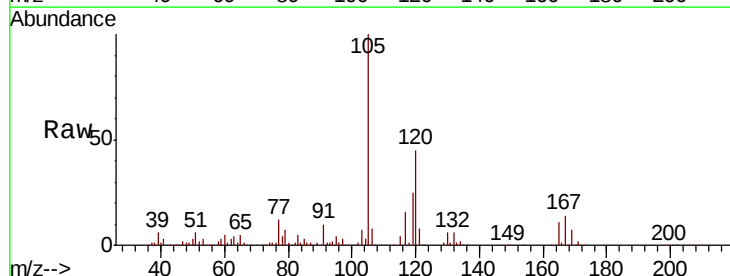
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

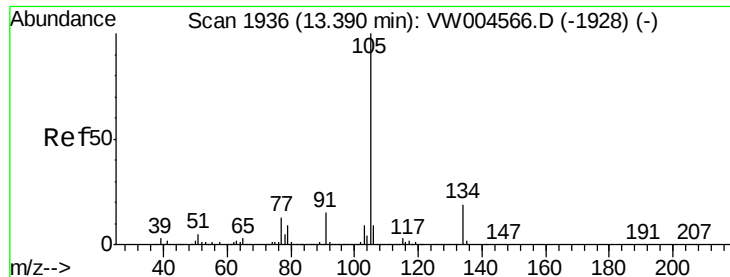
Tot Ion:119 Resp: 540720  
Ion Ratio Lower Upper  
119 100  
91 64.0 33.3 99.8  
134 26.4 12.2 36.6



#84  
1,2,4-Trimethylbenzene  
Concen: 22.118 ug/l  
RT: 13.26 min Scan# 1914  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion:105 Resp: 679631  
Ion Ratio Lower Upper  
105 100  
120 45.0 22.6 67.8

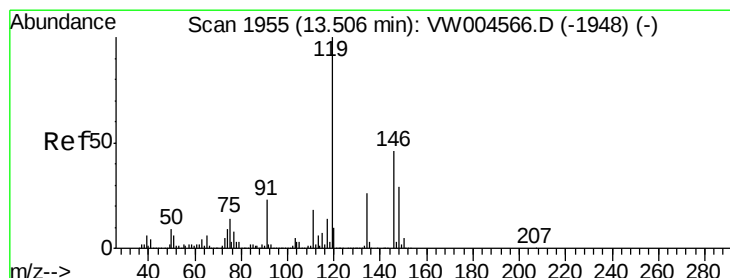
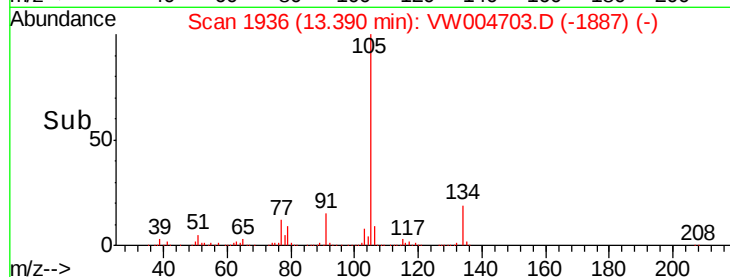
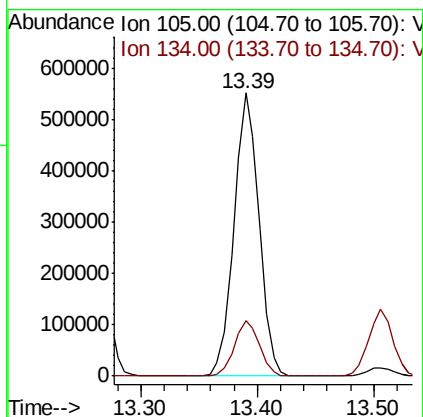
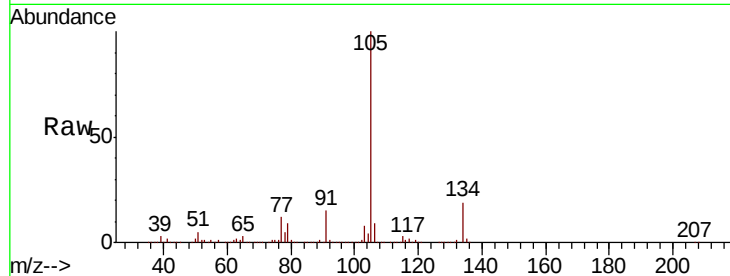




#85  
 sec-Butylbenzene  
 Concen: 21.861 ug/l  
 RT: 13.39 min Scan# 1936  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

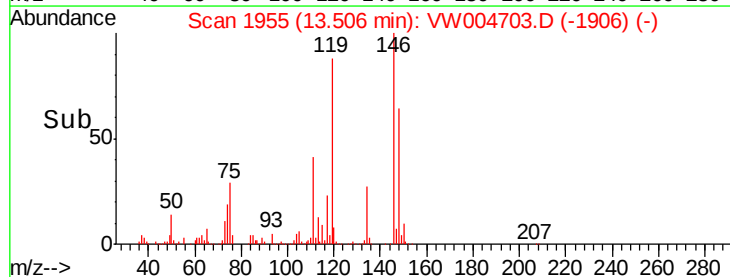
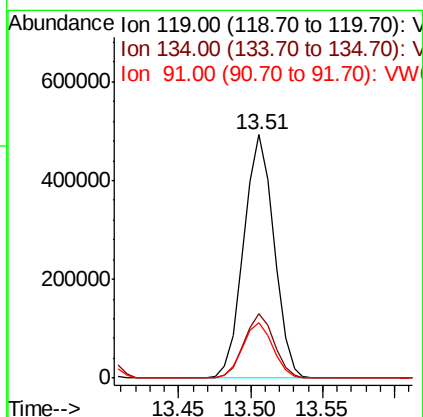
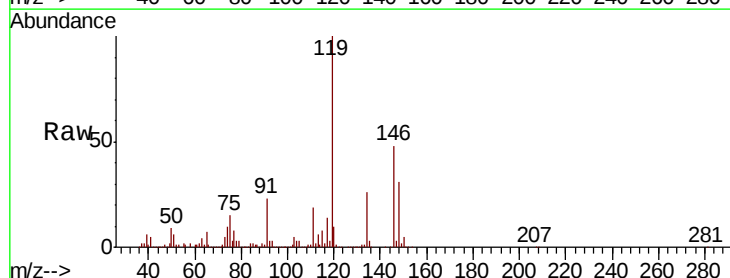
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

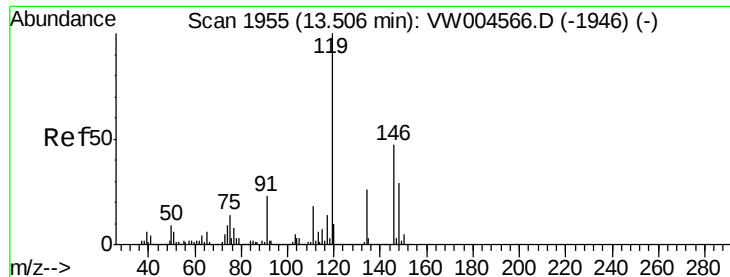
Tot Ion:105 Resp: 821111  
 Ion Ratio Lower Upper  
 105 100  
 134 19.7 9.8 29.5



#86  
 p-Isopropyltoluene  
 Concen: 22.026 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion:119 Resp: 716872  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 13.1 39.1  
 91 22.7 11.4 34.1

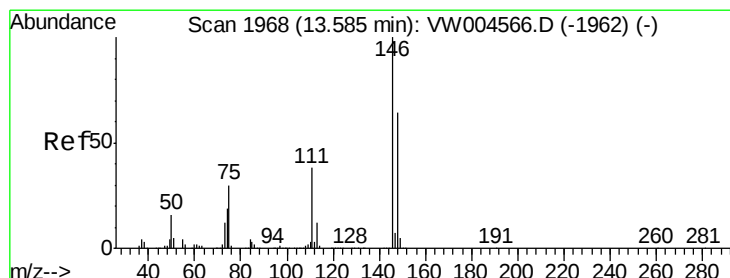
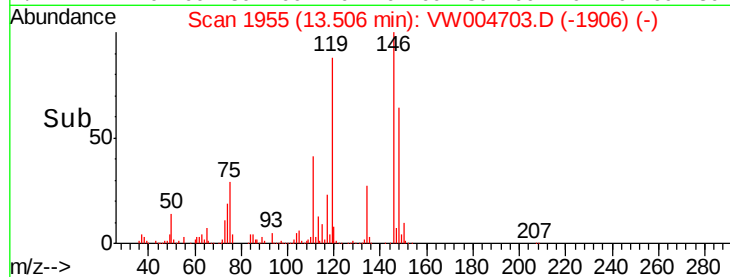
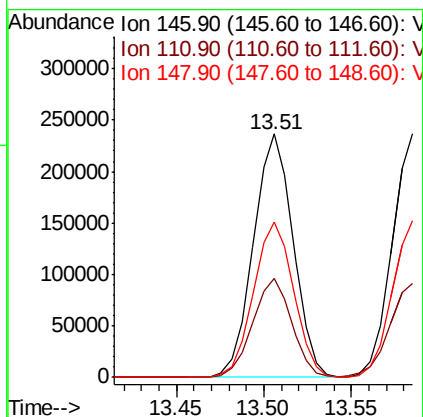
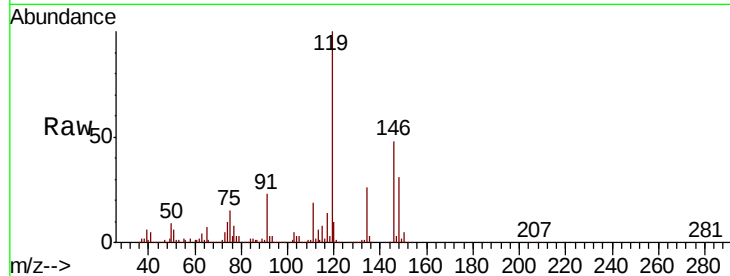




#87  
 1,3-Dichlorobenzene  
 Concen: 21.521 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

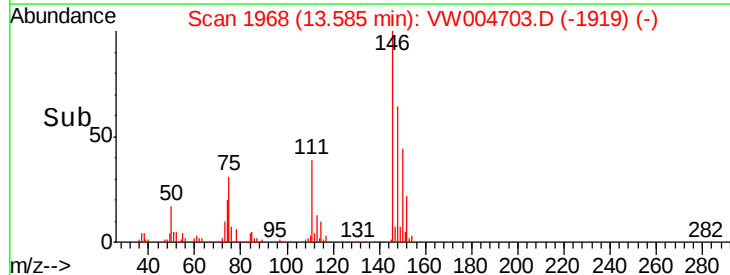
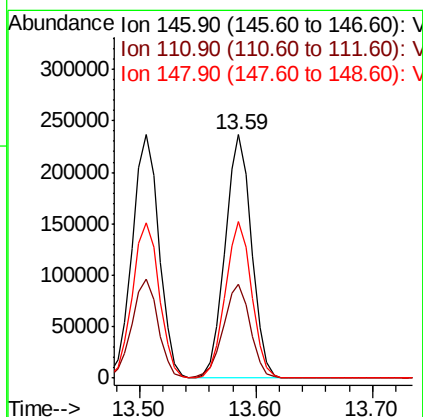
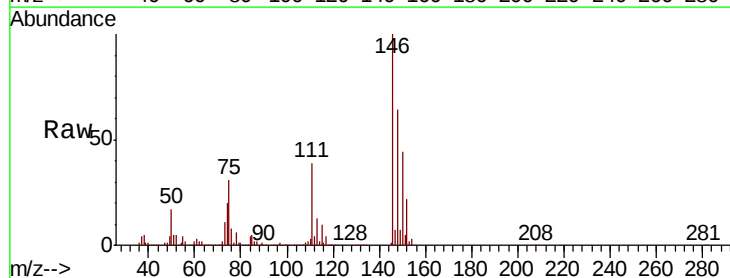
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

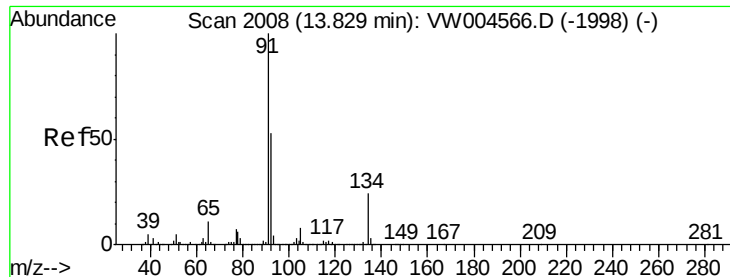
Tot Ion:146 Resp: 373317  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 20.0 59.9  
 148 64.1 31.7 95.1



#88  
 1,4-Dichlorobenzene  
 Concen: 21.502 ug/l  
 RT: 13.59 min Scan# 1968  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

Tgt Ion:146 Resp: 371301  
 Ion Ratio Lower Upper  
 146 100  
 111 39.4 19.6 58.8  
 148 64.2 31.9 95.5





#89

n-Butylbenzene

Concen: 21.478 ug/l

RT: 13.83 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampleId :

VW0817SBS01

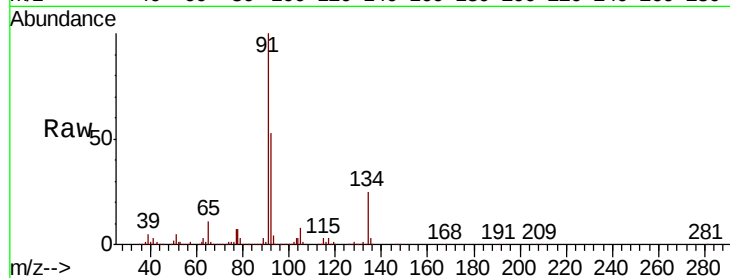
Tot Ion: 91 Resp: 686849

Ion Ratio Lower Upper

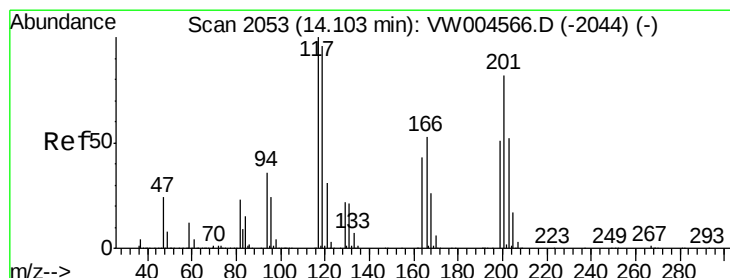
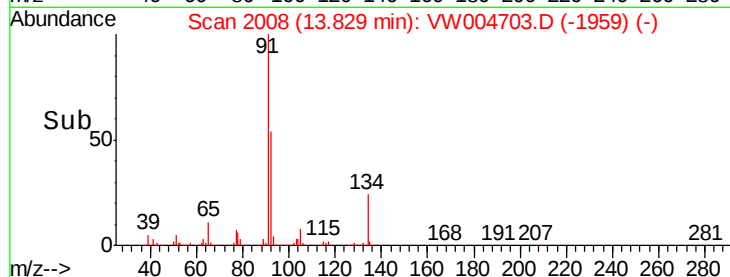
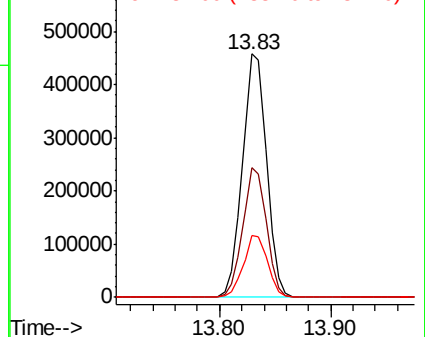
91 100

92 52.2 26.4 79.0

134 25.3 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 92.00 (91.70 to 92.70): VW  
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.992 ug/l

RT: 14.10 min Scan# 2052

Delta R.T. -0.01 min

Lab File: VW004703.D

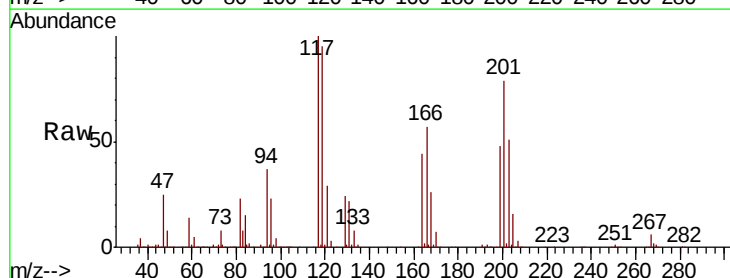
Acq: 15 Aug 2018 19:01

Tgt Ion: 117 Resp: 126411

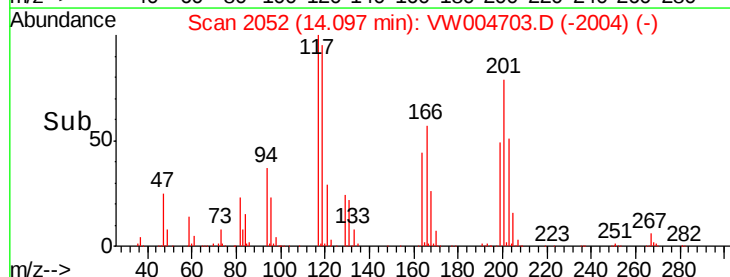
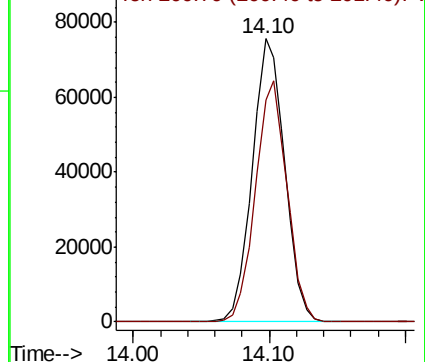
Ion Ratio Lower Upper

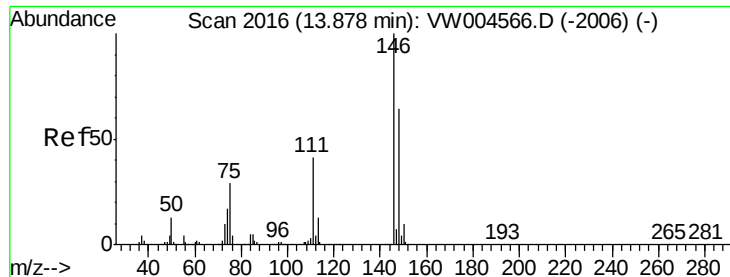
117 100

201 83.3 40.1 120.3



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.266 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

Instrument :

MSVOA\_W

ClientSampled :

VW0817SBS01

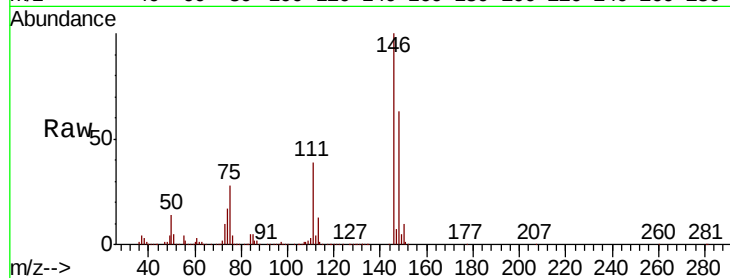
Tot Ion:146 Resp: 334681

Ion Ratio Lower Upper

146 100

111 40.3 20.8 62.2

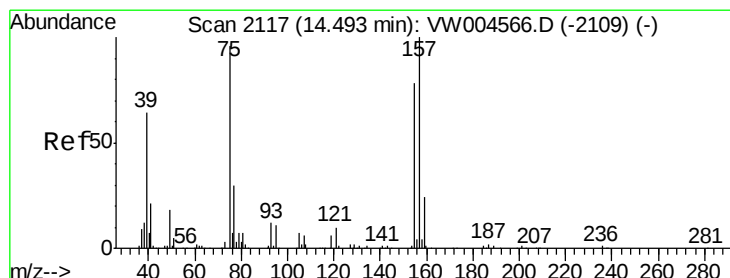
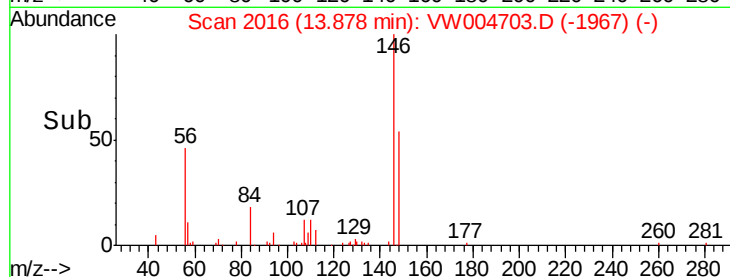
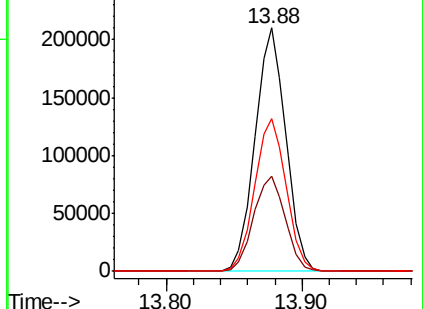
148 64.3 31.8 95.4



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: 18.562 ug/l

RT: 14.49 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VW004703.D

Acq: 15 Aug 2018 19:01

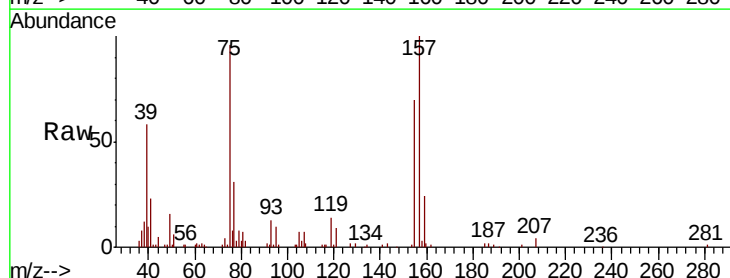
Tgt Ion: 75 Resp: 22032

Ion Ratio Lower Upper

75 100

155 82.4 41.3 123.7

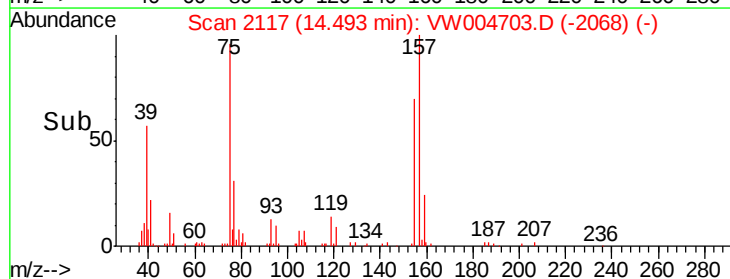
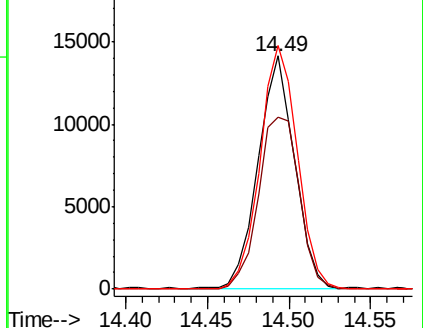
157 106.6 52.6 157.8

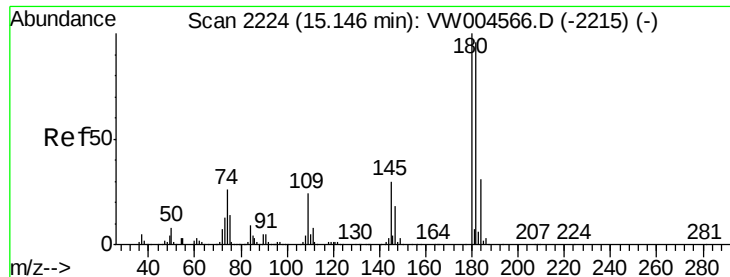


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

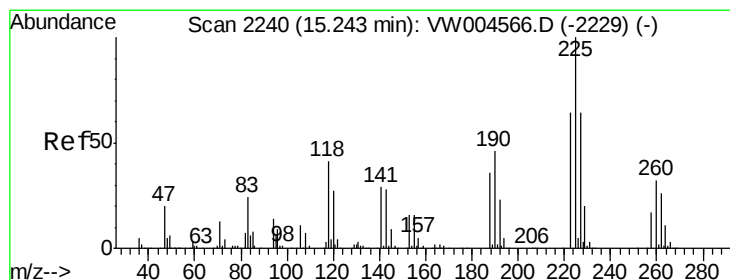
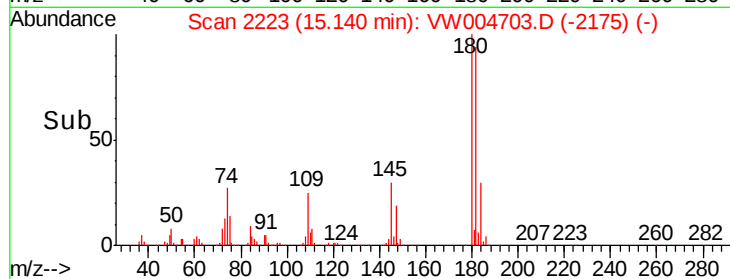
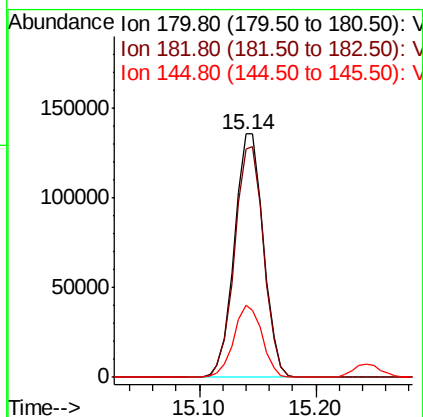
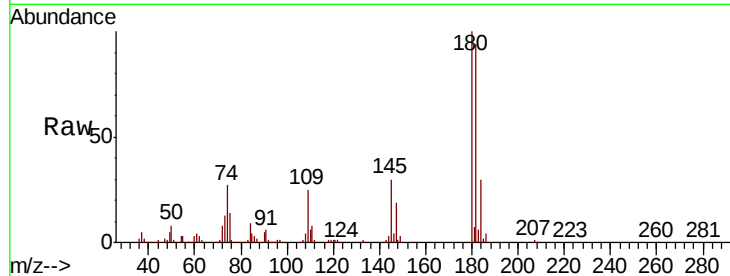




#93  
 1,2,4-Trichlorobenzene  
 Concen: 21.630 ug/l  
 RT: 15.14 min Scan# 2223  
 Delta R.T. -0.01 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

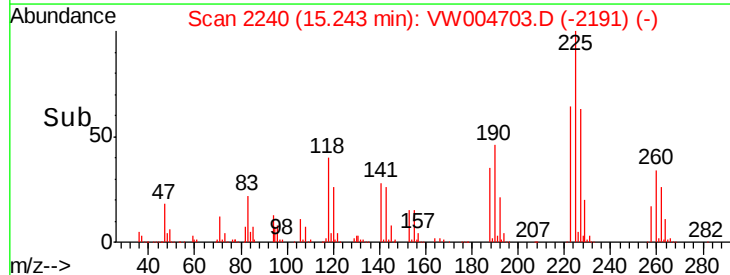
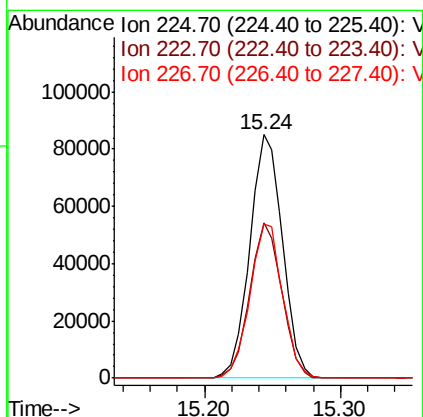
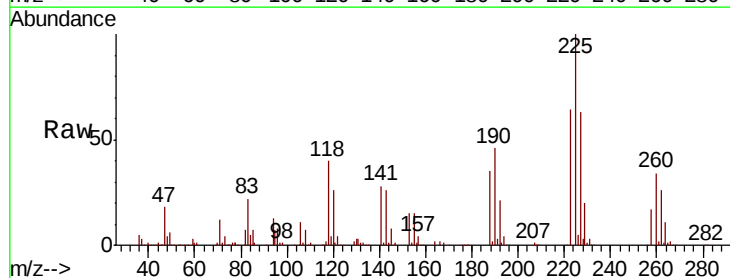
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0817SBS01

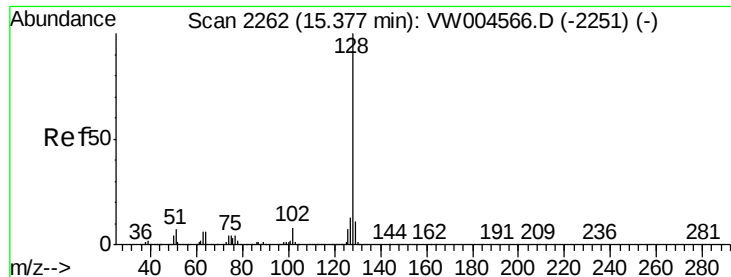
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 47.9  | 143.6 |
| 145     | 29.0  | 14.9  | 44.9  |



#94  
 Hexachlorobutadiene  
 Concen: 22.573 ug/l  
 RT: 15.24 min Scan# 2240  
 Delta R.T. 0.00 min  
 Lab File: VW004703.D  
 Acq: 15 Aug 2018 19:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.7  | 31.3  | 93.8  |
| 227     | 63.5  | 31.8  | 95.4  |

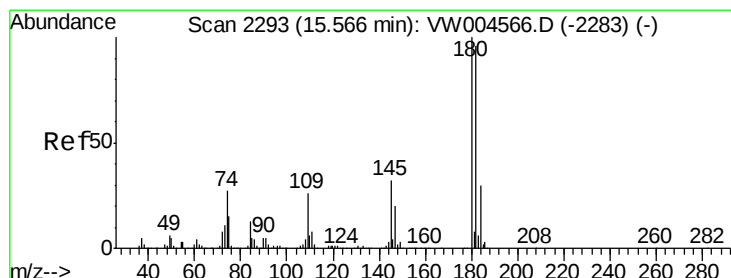
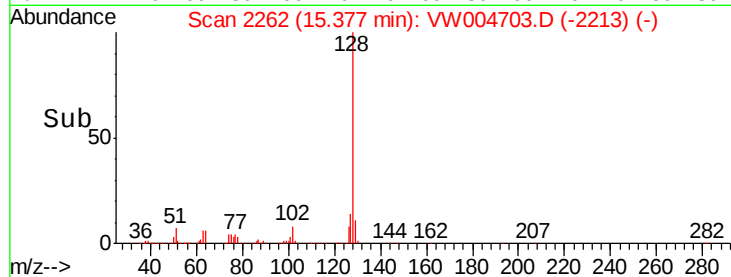
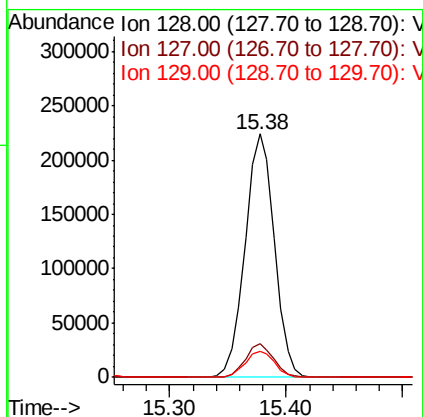
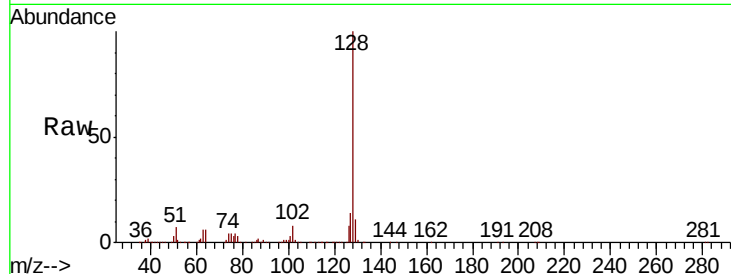




#95  
Naphthalene  
Concen: 19.388 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0817SBS01

Tot Ion:128 Resp: 393361  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.3 15.5  
129 10.8 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 21.629 ug/l  
RT: 15.57 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: VW004703.D  
Acq: 15 Aug 2018 19:01

Tgt Ion:180 Resp: 211781  
Ion Ratio Lower Upper  
180 100  
182 94.2 47.0 141.2  
145 30.6 15.9 47.6

