**General pruebas con LAB**

cp03\_C2: coordenada C2 de la imagen chicken\_pox\_primary\_lesions\_03

hz114\_C2: coordenada C2 de la imagen herpes\_zoster\_114

hz8\_C2: coordenada C2 de la imagen herpes\_zoster\_8

var34\_C2: coordenada C2 de la imagen Varicella\_34

**Primera Prueba con LAB**

%% ANOVA CONSIDERANDO CADA IMAGEN COMO UNA CLASE DIFERENTE

>> cp03\_C2\_label = repmat({'cp03C2'},7284,1);

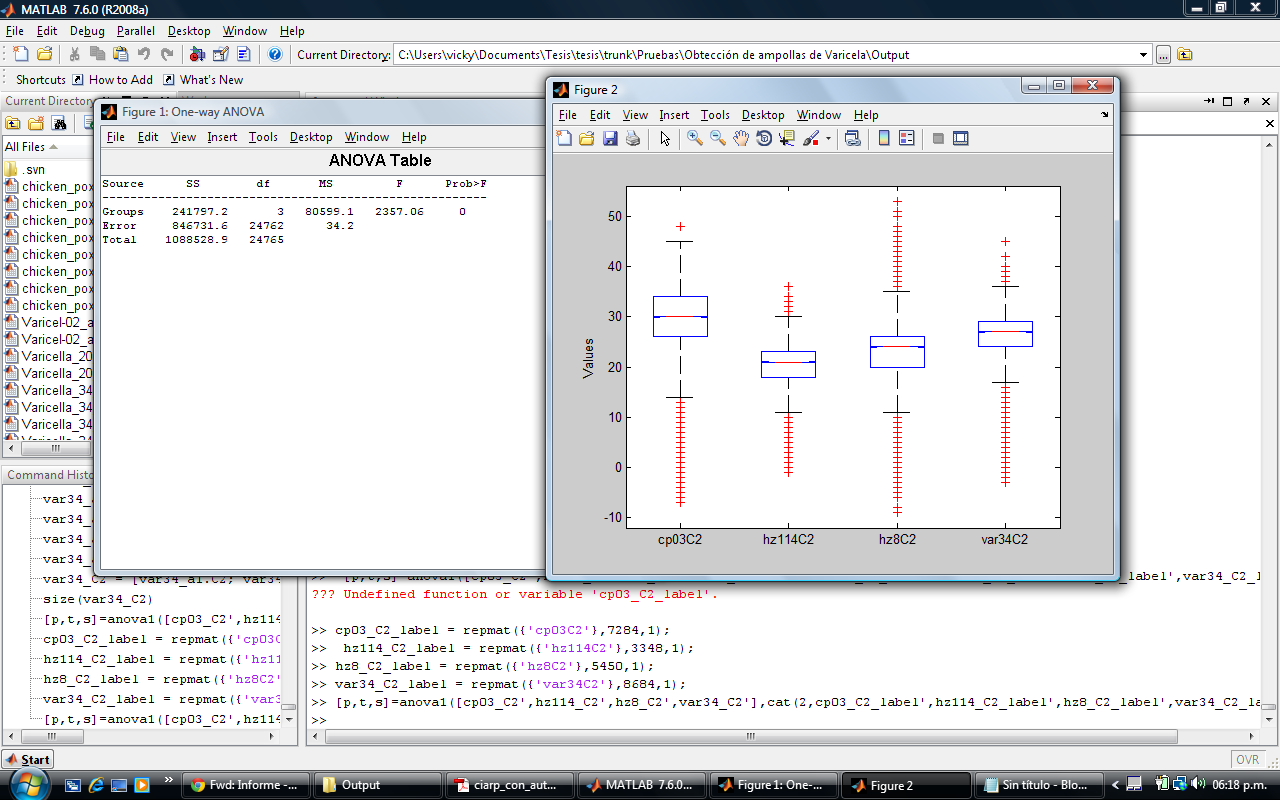
>> hz114\_C2\_label = repmat({'hz114C2'},3348,1);

>> hz8\_C2\_label = repmat({'hz8C2'},5450,1);

>> var34\_C2\_label = repmat({'var34C2'},8684,1);

>> [p,t,s]=anova1([cp03\_C2',hz114\_C2',hz8\_C2',var34\_C2'],cat(2,cp03\_C2\_label',hz114\_C2\_label',hz8\_C2\_label',var34\_C2\_label'));

>>



c=multcompare(s)

c =

1.0000 2.0000 8.8831 9.1967 9.5104

1.0000 3.0000 5.8445 6.1135 6.3826

1.0000 4.0000 2.3835 2.6222 2.8609

2.0000 3.0000 -3.4131 -3.0832 -2.7533

2.0000 4.0000 -6.8802 -6.5746 -6.2689

3.0000 4.0000 -3.7509 -3.4913 -3.2317

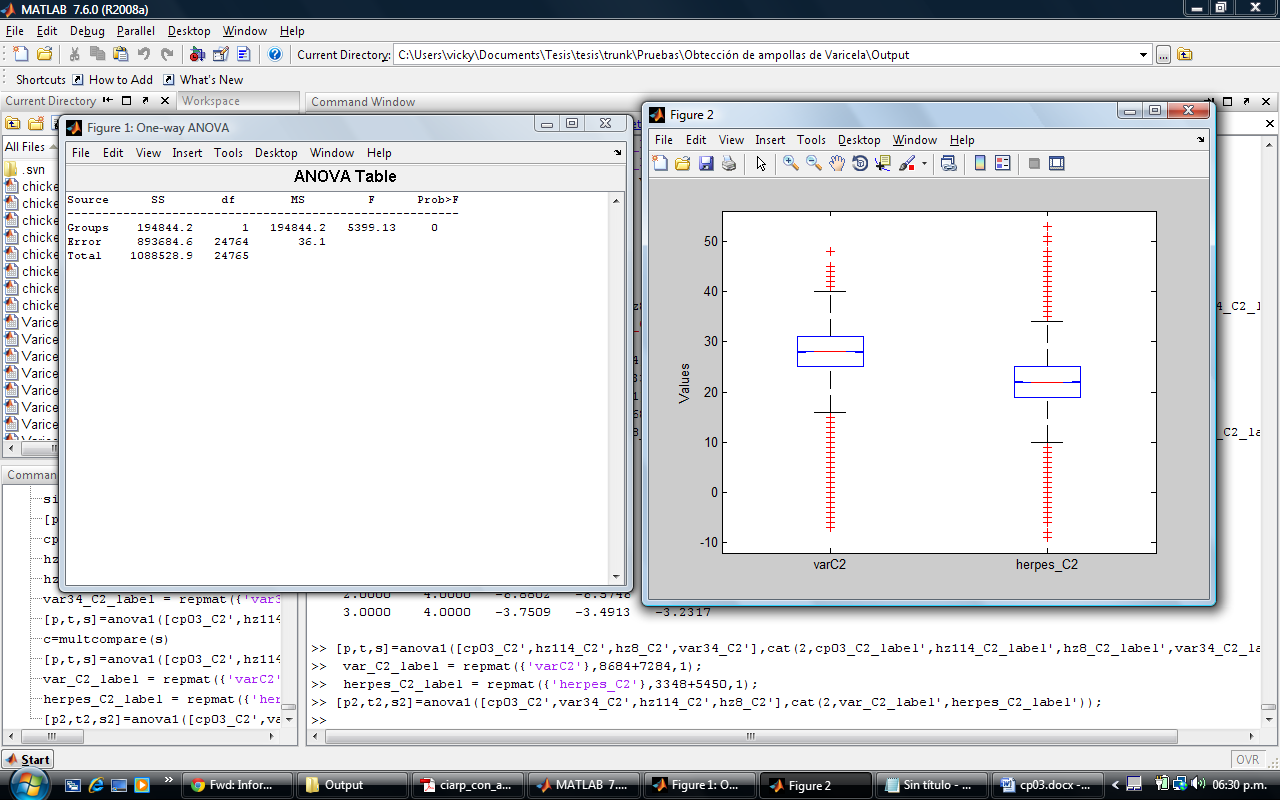
**Segunda Prueba con LAB**

**%% ANOVA AGRUPANDO VAR34 Y CHICKENPOX EN UNA MISMA CLASE Y HERPESZOSTER 8 Y HERPESZOSTER 114 EN OTRA CLASE**

>> var\_C2\_label = repmat({'varC2'},8684+7284,1);

>> herpes\_C2\_label = repmat({'herpes\_C2'},3348+5450,1);

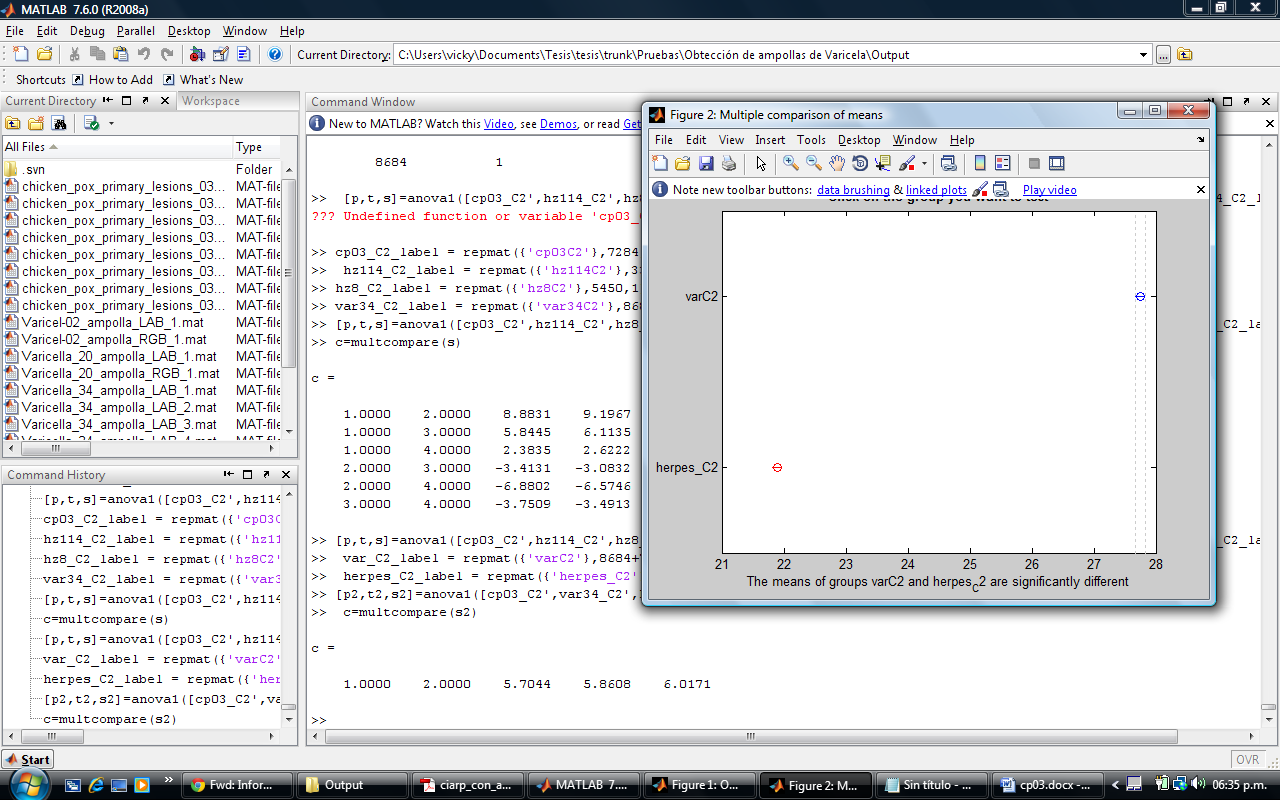
>> [p2,t2,s2]=anova1([cp03\_C2',var34\_C2',hz114\_C2',hz8\_C2'],cat(2,var\_C2\_label',herpes\_C2\_label'));



>> c=multcompare(s2)

c =

1.0000 2.0000 5.7044 5.8608 6.0171



>> mean(cp03\_C2')

ans =

29.1779

>> mean(var34\_C2')

ans =

26.5557

**General pruebas con YCbCr**

cp03\_C2: coordenada C2 de la imagen chicken\_pox\_primary\_lesions\_03

hz114\_C2: coordenada C2 de la imagen herpes\_zoster\_114

hz8\_C2: coordenada C2 de la imagen herpes\_zoster\_8

var34\_C2: coordenada C2 de la imagen Varicella\_34

cp03\_C3: coordenada C3 de la imagen chicken\_pox\_primary\_lesions\_03

hz114\_C3: coordenada C3 de la imagen herpes\_zoster\_114

hz8\_C3: coordenada C3 de la imagen herpes\_zoster\_8

var34\_C3: coordenada C3 de la imagen Varicella\_34

**Cargo chicken\_pox\_primary\_lesions\_03**

>> cp\_03\_a1 = load ('chicken\_pox\_primary\_lesions\_03\_ampolla\_YCbCr\_1');

>> cp\_03\_a2 = load ('chicken\_pox\_primary\_lesions\_03\_ampolla\_YCbCr\_2');

>> cp\_03\_a3 = load ('chicken\_pox\_primary\_lesions\_03\_ampolla\_YCbCr\_3');

>> cp\_03\_a4 = load ('chicken\_pox\_primary\_lesions\_03\_ampolla\_YCbCr\_4');

>> cp03\_C2 = [cp\_03\_a1.C2; cp\_03\_a2.C2; cp\_03\_a3.C2;cp\_03\_a4.C2];

>> cp03\_C3 = [cp\_03\_a1.C3; cp\_03\_a2.C3; cp\_03\_a3.C3;cp\_03\_a4.C3];

>> size(cp03\_C2)

ans =

7284 1

>> size(cp03\_C3)

ans =

7284 1

**Cargo Varicella\_34**

>> var34\_a1 = load('Varicella\_34\_ampolla\_YCbCr\_1');

>> var34\_a2 = load('Varicella\_34\_ampolla\_YCbCr\_2');

>> var34\_a3 = load('Varicella\_34\_ampolla\_YCbCr\_3');

>> var34\_a4 = load('Varicella\_34\_ampolla\_YCbCr\_4');

>> var34\_C2 = [var34\_a1.C2; var34\_a2.C2; var34\_a3.C2; var34\_a4.C2];

>> var34\_C3 = [var34\_a1.C3; var34\_a2.C3; var34\_a3.C3; var34\_a4.C3];

>> size(var34\_C2)

ans =

8684 1

>> size(var34\_C3)

ans =

8684 1

**Cargo herpes\_zoster\_114**

>> hz114\_a1 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_1');

>> hz114\_a2 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_2');

>> hz114\_a3 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_3');

>> hz114\_a4 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_4');

>> hz114\_a5 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_5');

>> hz114\_a6 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_6');

>> hz114\_a7 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_7');

>> hz114\_a8 = load('herpes\_zoster\_114\_ampolla\_YCbCr\_8');

>> hz114\_C2 = [hz114\_a1.C2; hz114\_a2.C2; hz114\_a3.C2; hz114\_a4.C2; hz114\_a5.C2; hz114\_a6.C2; hz114\_a7.C2; hz114\_a8.C2; ];

>> hz114\_C3 = [hz114\_a1.C3; hz114\_a2.C3; hz114\_a3.C3; hz114\_a4.C3; hz114\_a5.C3; hz114\_a6.C3; hz114\_a7.C3; hz114\_a8.C3; ];

>> size(hz114\_C2)

ans =

3348 1

>> size(hz114\_C3)

ans =

3348 1

**Cargo herpes\_zoster\_8**

>> hz8\_a1 = load('herpes\_zoster\_8\_ampolla\_YCbCr\_1');

>> hz8\_a2 = load('herpes\_zoster\_8\_ampolla\_YCbCr\_2');

>> hz8\_a3 = load('herpes\_zoster\_8\_ampolla\_YCbCr\_3');

>> hz8\_a4 = load('herpes\_zoster\_8\_ampolla\_YCbCr\_4');

>> hz8\_a5 = load('herpes\_zoster\_8\_ampolla\_YCbCr\_5');

>> hz8\_a6 = load('herpes\_zoster\_8\_ampolla\_YCbCr\_6');

>> hz8\_C2 = [hz8\_a1.C2; hz8\_a2.C2; hz8\_a3.C2; hz8\_a4.C2; hz8\_a5.C2; hz8\_a6.C2];

>> hz8\_C3 = [hz8\_a1.C3; hz8\_a2.C3; hz8\_a3.C3; hz8\_a4.C3; hz8\_a5.C3; hz8\_a6.C3];

>> size(hz8\_C2)

ans =

5450 1

>> size(hz8\_C3)

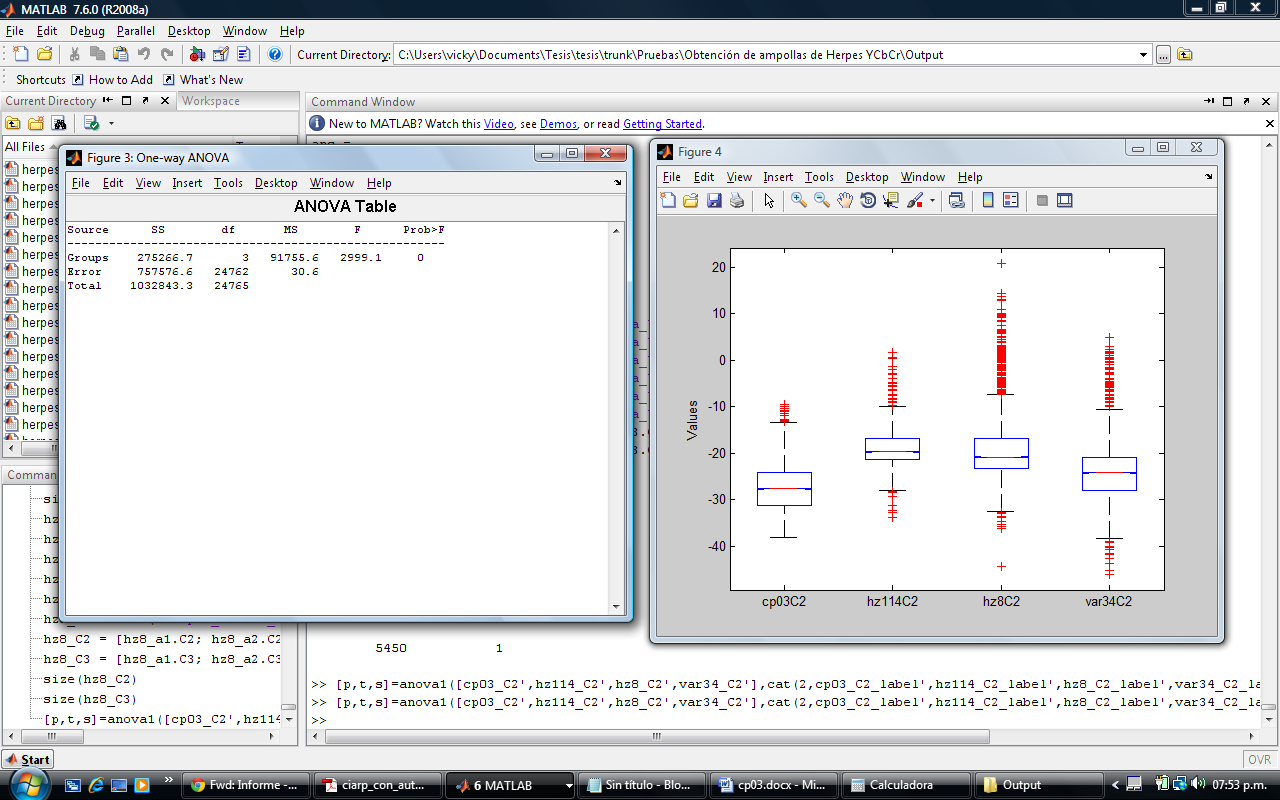
ans =

5450 1

**Primera Prueba con YCbCr coordenada C2**

%% ANOVA CONSIDERANDO CADA IMAGEN COMO UNA CLASE DIFERENTE

>> [p,t,s]=anova1([cp03\_C2',hz114\_C2',hz8\_C2',var34\_C2'],cat(2,cp03\_C2\_label',hz114\_C2\_label',hz8\_C2\_label',var34\_C2\_label'));



>> c=multcompare(s)

c =

1.0000 2.0000 -8.6310 -8.3343 -8.0376

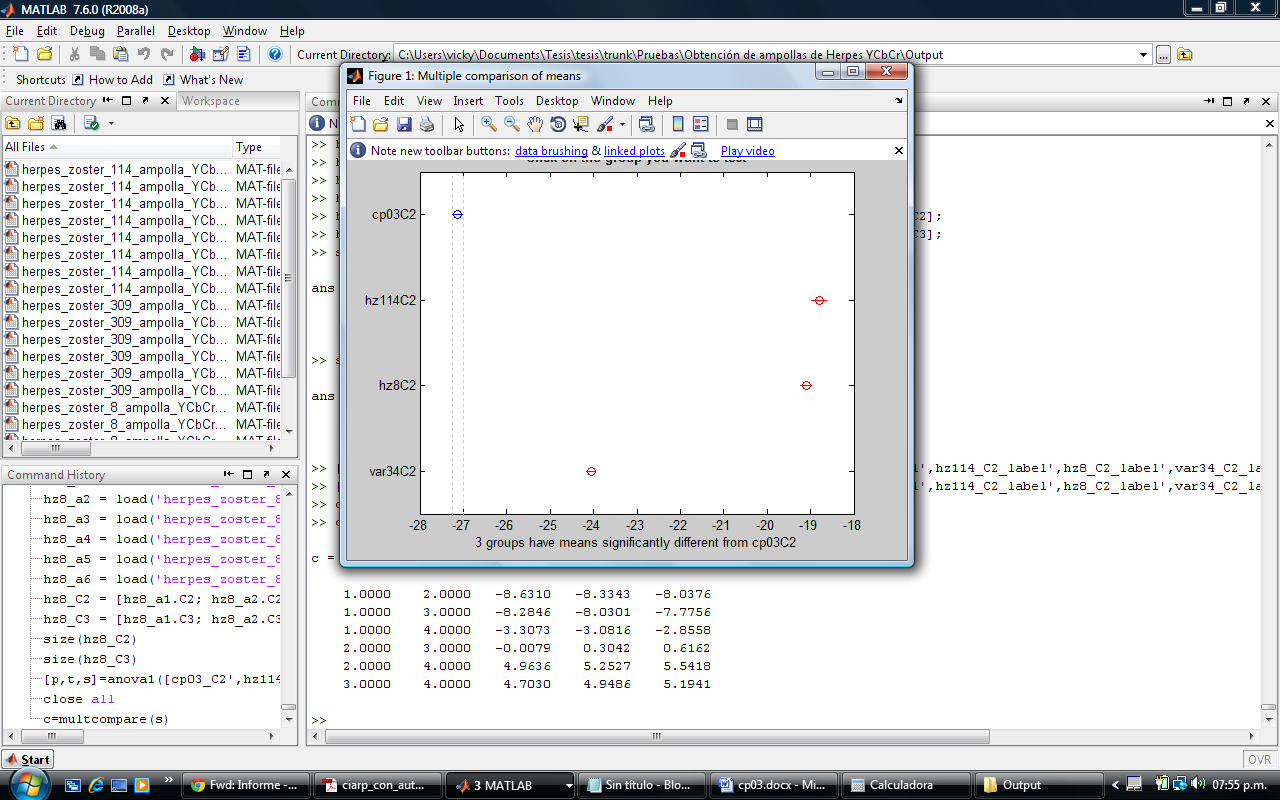
1.0000 3.0000 -8.2846 -8.0301 -7.7756

1.0000 4.0000 -3.3073 -3.0816 -2.8558

2.0000 3.0000 -0.0079 0.3042 0.6162

2.0000 4.0000 4.9636 5.2527 5.5418

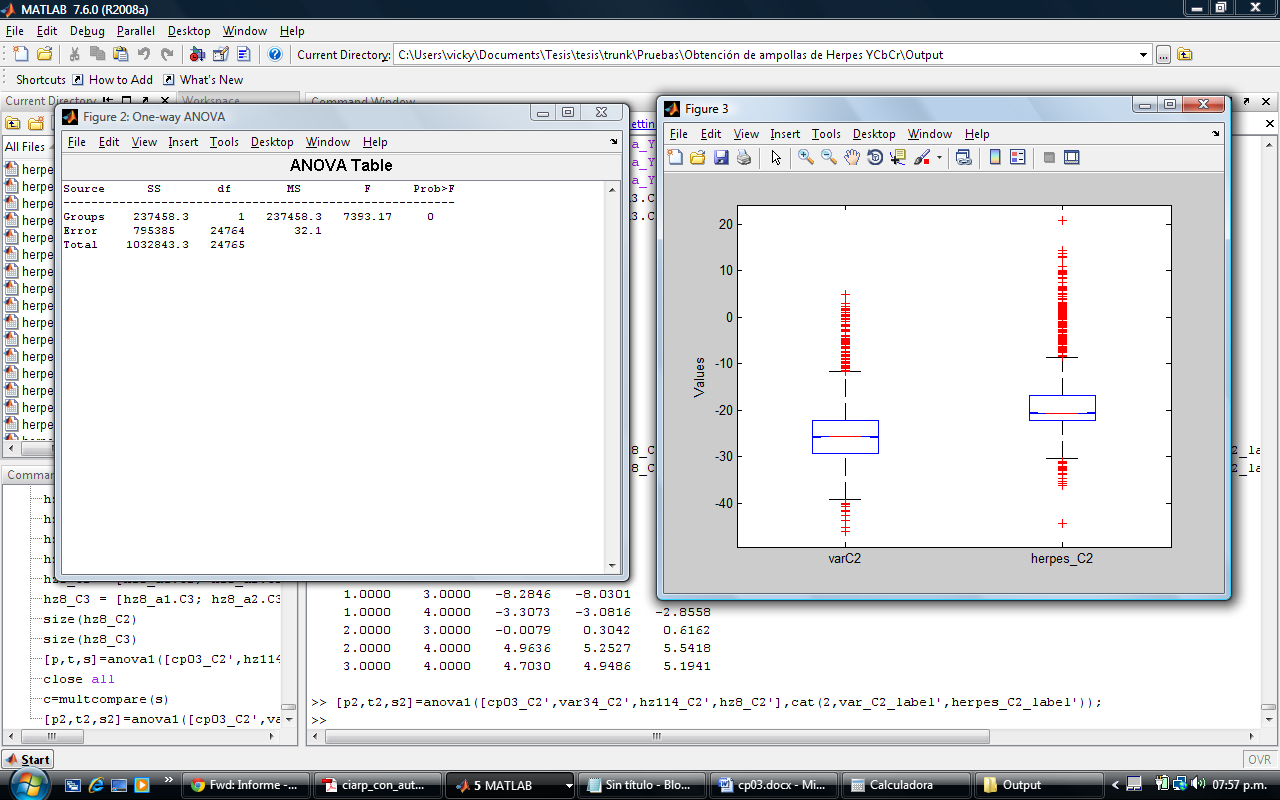
3.0000 4.0000 4.7030 4.9486 5.1941



**Segunda Prueba con YCbCr coordenada C2**

**%% ANOVA AGRUPANDO VAR34 Y CHICKENPOX EN UNA MISMA CLASE Y HERPESZOSTER 8 Y HERPESZOSTER 114 EN OTRA CLASE**

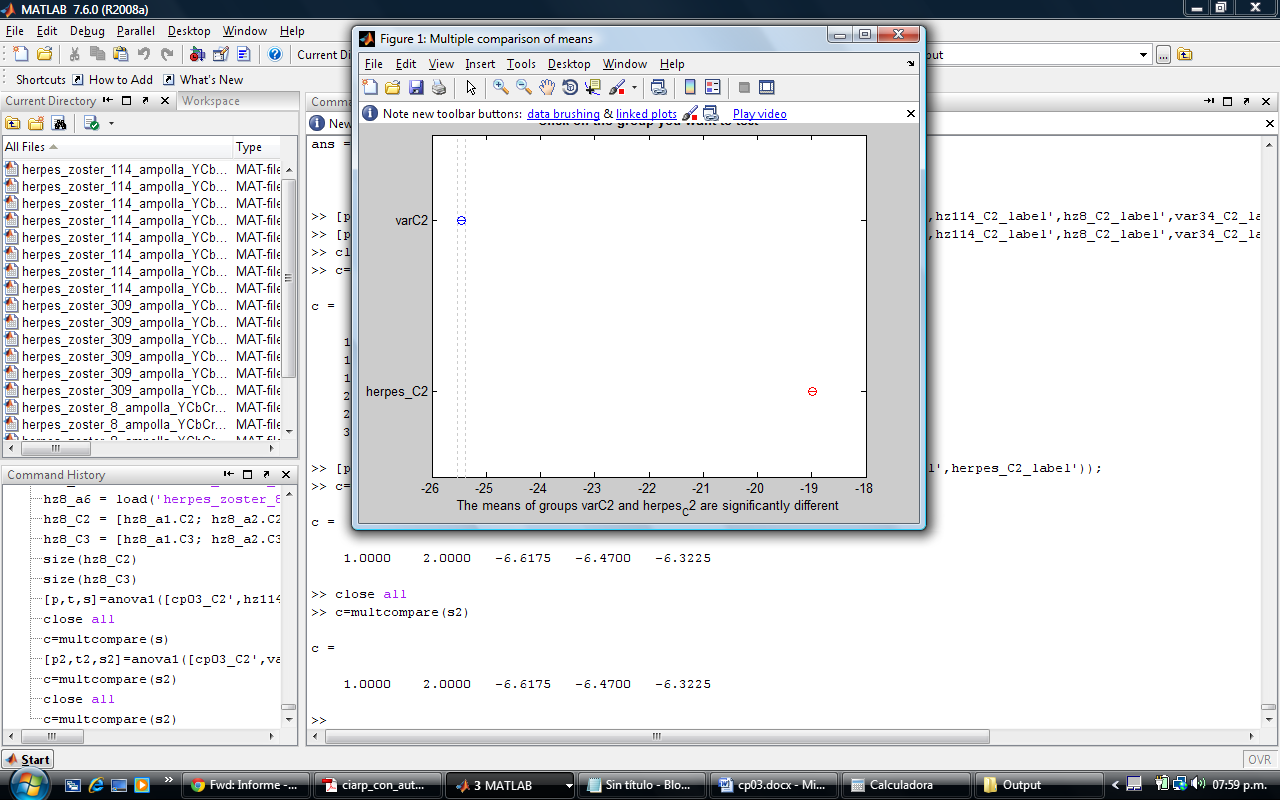
[p2,t2,s2]=anova1([cp03\_C2',var34\_C2',hz114\_C2',hz8\_C2'],cat(2,var\_C2\_label',herpes\_C2\_label'));



>> c=multcompare(s2)

c =

1.0000 2.0000 -6.6175 -6.4700 -6.3225



**Primera Prueba con YCbCr coordenada C3**

%% ANOVA CONSIDERANDO CADA IMAGEN COMO UNA CLASE DIFERENTE

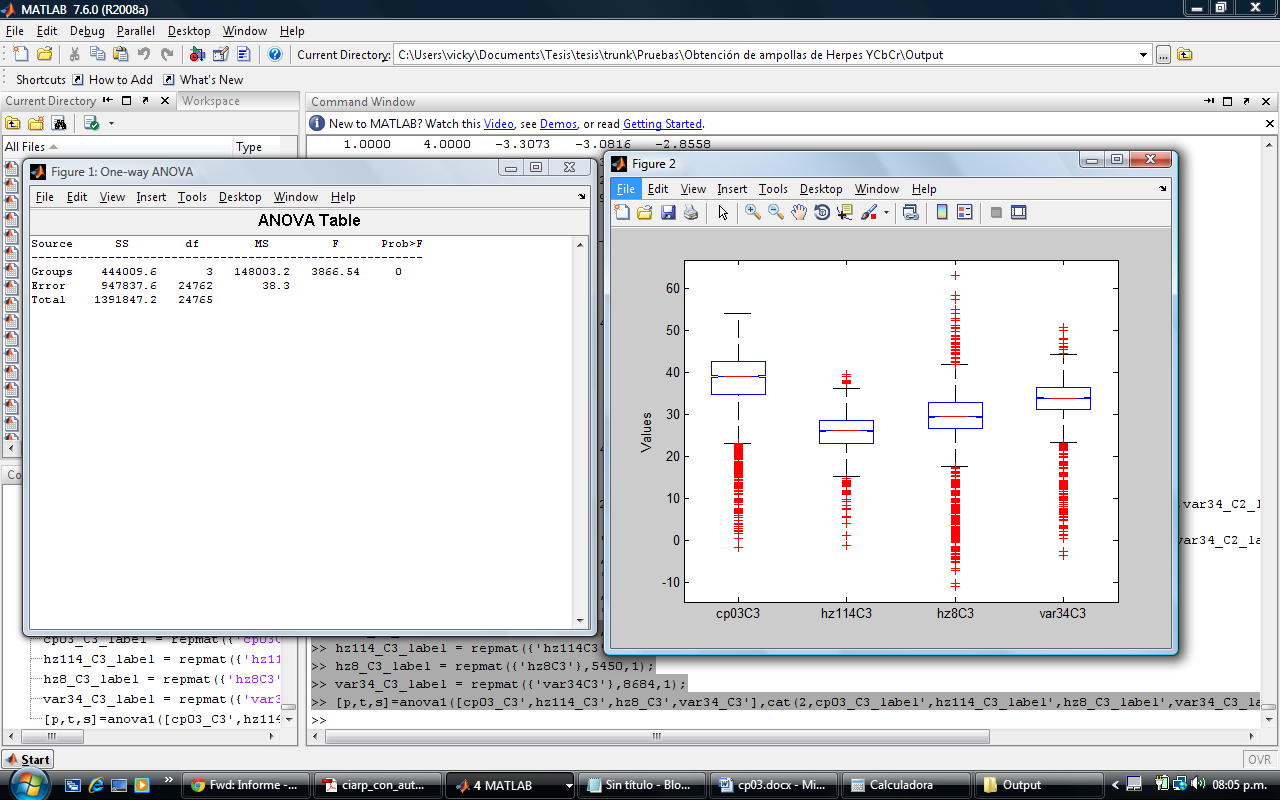
>> cp03\_C3\_label = repmat({'cp03C3'},7284,1);

>> hz114\_C3\_label = repmat({'hz114C3'},3348,1);

>> hz8\_C3\_label = repmat({'hz8C3'},5450,1);

>> var34\_C3\_label = repmat({'var34C3'},8684,1);

>> [p,t,s]=anova1([cp03\_C3',hz114\_C3',hz8\_C3',var34\_C3'],cat(2,cp03\_C3\_label',hz114\_C3\_label',hz8\_C3\_label',var34\_C3\_label'));



>> c=multcompare(s)

c =

1.0000 2.0000 11.8231 12.1550 12.4869

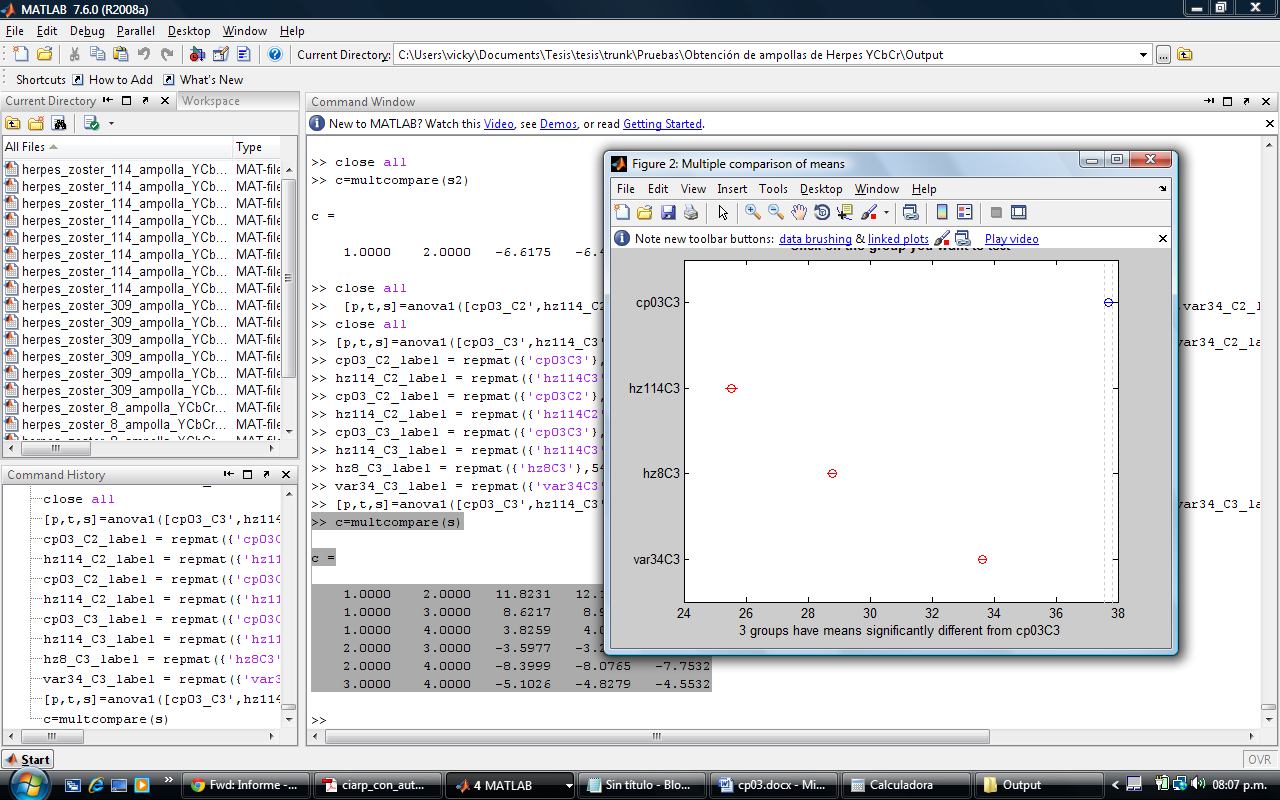
1.0000 3.0000 8.6217 8.9064 9.1910

1.0000 4.0000 3.8259 4.0785 4.3310

2.0000 3.0000 -3.5977 -3.2486 -2.8996

2.0000 4.0000 -8.3999 -8.0765 -7.7532

3.0000 4.0000 -5.1026 -4.8279 -4.5532



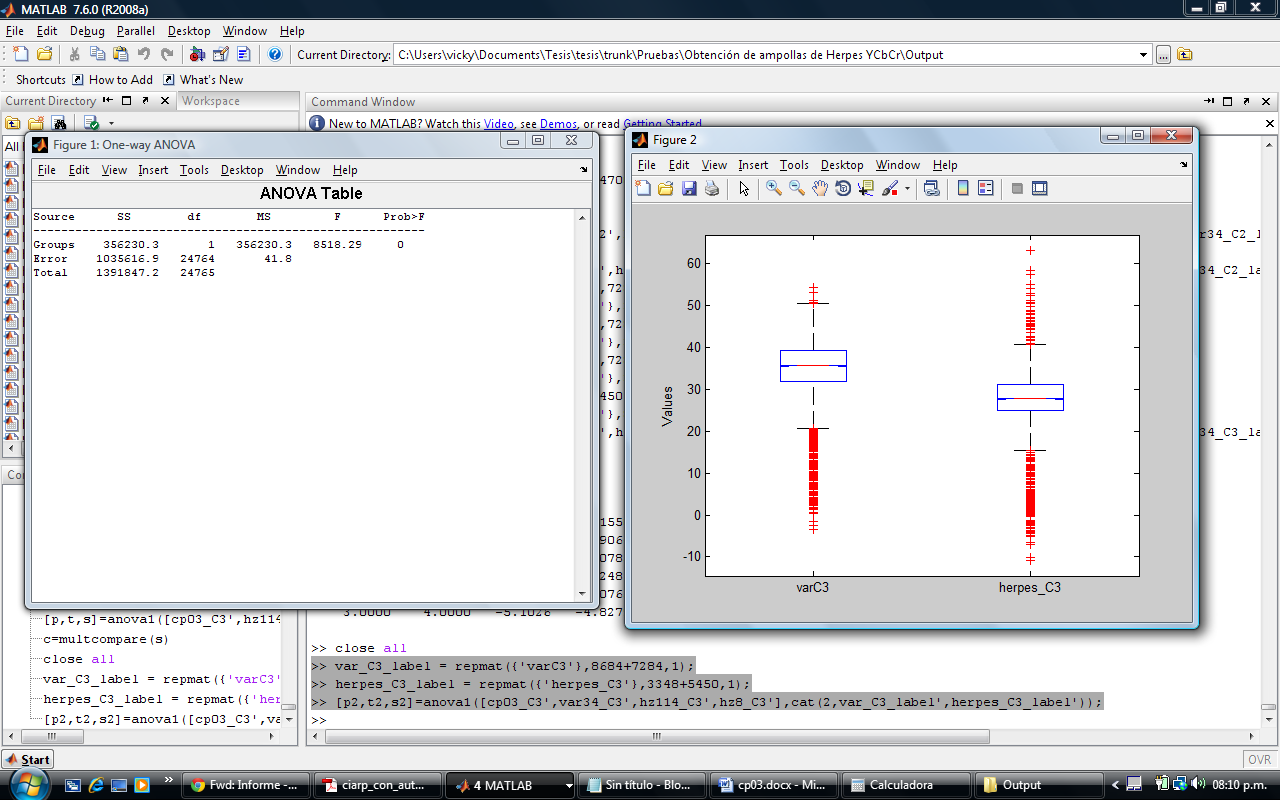
**Segunda Prueba con YCbCr coordenada C3**

**%% ANOVA AGRUPANDO VAR34 Y CHICKENPOX EN UNA MISMA CLASE Y HERPESZOSTER 8 Y HERPESZOSTER 114 EN OTRA CLASE**

>> var\_C3\_label = repmat({'varC3'},8684+7284,1);

>> herpes\_C3\_label = repmat({'herpes\_C3'},3348+5450,1);

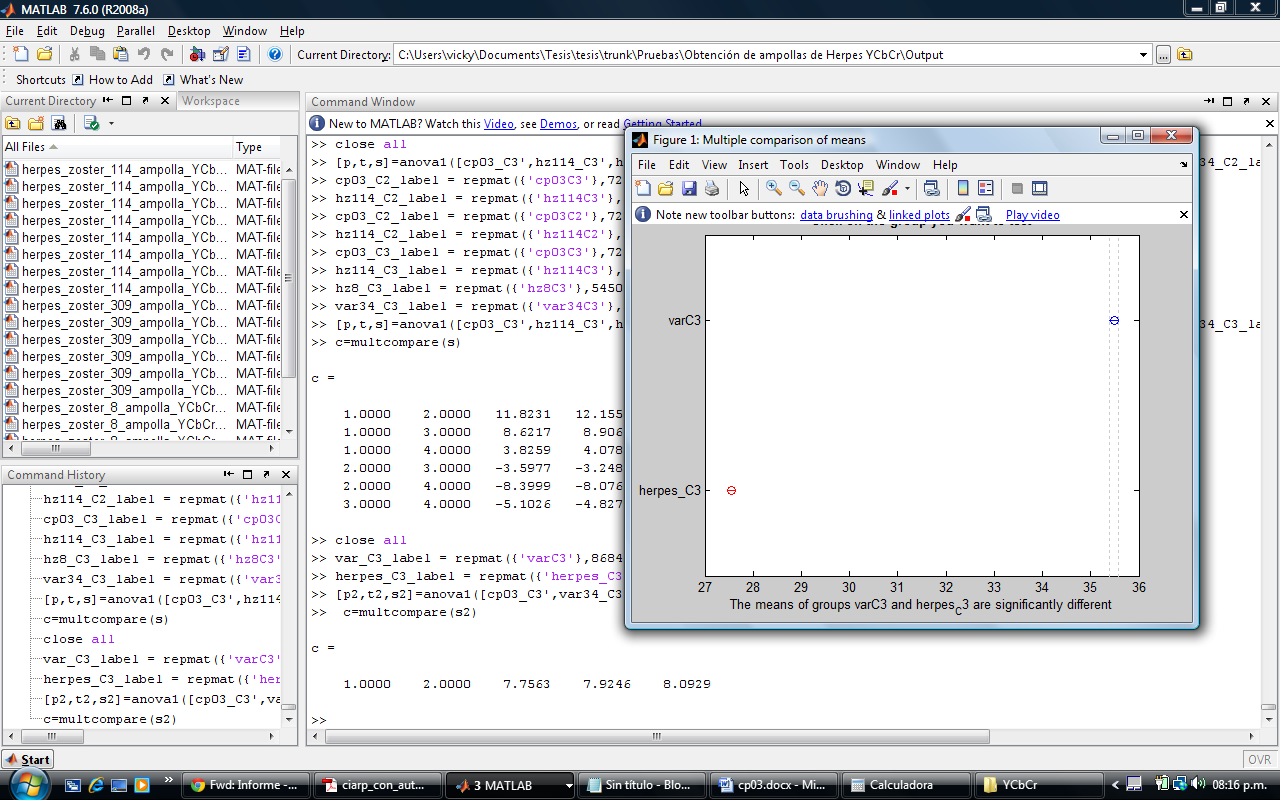
>> [p2,t2,s2]=anova1([cp03\_C3',var34\_C3',hz114\_C3',hz8\_C3'],cat(2,var\_C3\_label',herpes\_C3\_label'));



>> c=multcompare(s2)

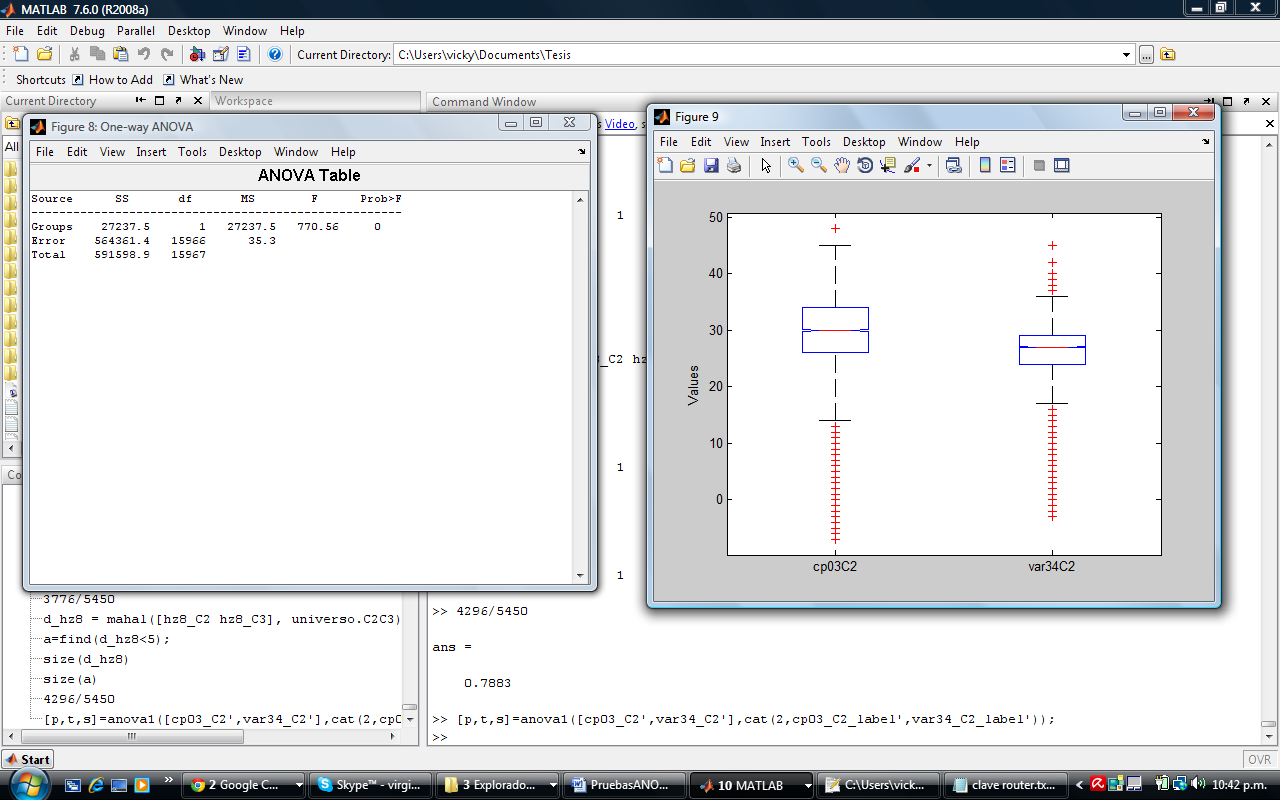
c =

1.0000 2.0000 7.7563 7.9246 8.0929



**Comparo dos imágenes de varicela**

[p,t,s]=anova1([cp03\_C2',var34\_C2'],cat(2,cp03\_C2\_label',var34\_C2\_label'));



>> c=multcompare(s)

c =

1.0000 2.0000 2.4370 2.6222 2.8073