

CMM Quarterly

# Calypso Excel Reporting

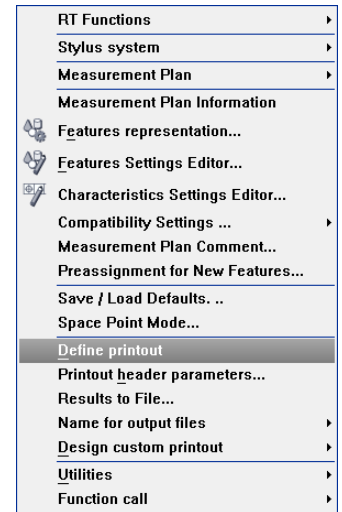
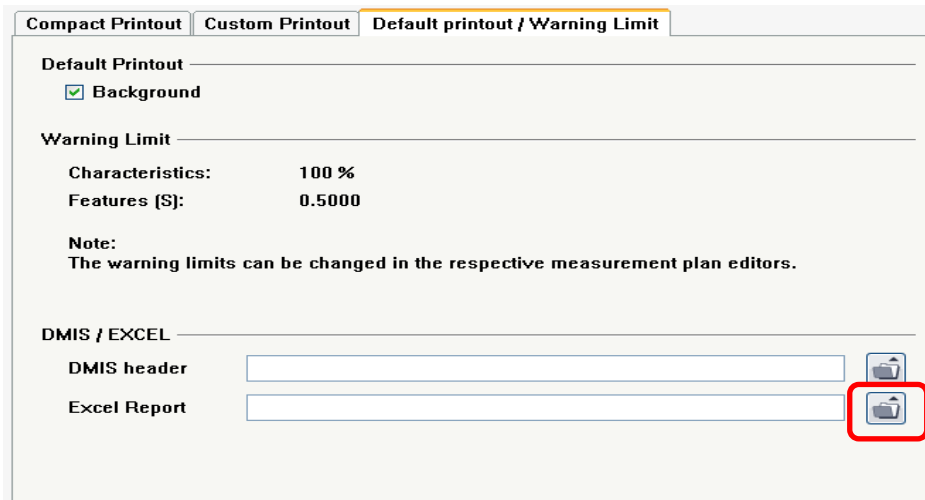
Calypso - Reporting Characteristic to an Excel Report

# Calypso - Reporting Characteristic to an Excel Report

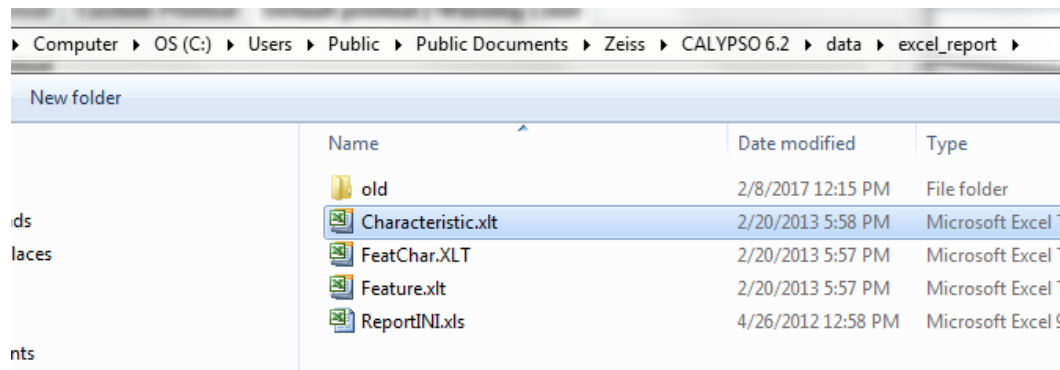
Click on the Resources Menu

Select Define Printout

Now click on the Default printout/ Warning Limit Tab



Select the file/ open folder in the Excel Report line.

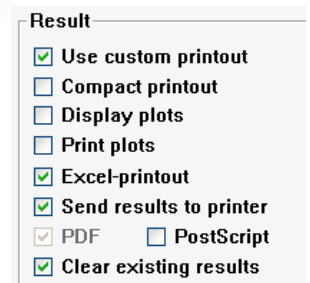


Select the Characteristic.xlt

This is a canned worksheet that we will modify.

Now run your program. Be sure to click the Excel-printout box.

When the program is finished the excel report will be opened and populated.



This is what the report will look like and this might meet your needs but below we will begin to edit the report to make it more user friendly.

The screenshot shows an Excel spreadsheet with the following data:

Calypso Measuring Result						
Measurement Plan	Date	Order				
JTekt-BALLNUT-Op050	13-Mar-17					
Drawing No.	Time	Part No.				
	12:16:44	457				
Operator	CMM					
Master						
Characteristic	Actual	Nominal	Upper Tol	Lower Tol	Deviation	
1.739 Line	-1.7742	-1.739	0.025	-0.025	-0.0352032	
4.527 Angle Pocket 1	-4.54435	-4.527	0.5	-0.5	-0.0173471	
16.104 Dim Pocket 1	16.11387	16.104	0.045	-0.045	0.0098727	
25.575 Dim Pocket 1_X	25.57439	25.575	0.1	-0.1	-0.0006062	
20.00 Dim Pocket 1	20.0042	20	0.2	-0.2	0.0041954	
1.14 Distance Pocket 1	1.141427	1.14	0.05	-0.05	0.0014273	
8.8 Width Pocket 1_Z	8.791672	8.8	0.025	-0.025	-0.0083279	
.15 Dim Pocket 1 Top_Z	0.15006	0.15	0.3	-0.1	0.0000598	
.15 Dim Pocket 1 Bottom	0.14598	0.15	0.1	-0.1	-0.00402	
4.50 Dim Pocket 1_X	4.554895	4.5	0.3	-0.3	0.0548945	
1.4 Distance pocket 1	1.278764	1.4	0.5	-0.5	-0.1212358	
9.100 Dim Pocket 1	9.113948	9.1	0.3	-0.3	0.0139481	
18.7 Plane Pocket 1	18.69516	18.7	0.04	-0.04	-0.0048428	
3.7 Dim Pocket 1_Y	3.676312	3.7	0.045	-0.045	-0.0236882	
1.5 Dim Pocket 1_Y	1.486572	1.5	0.3	-0.3	-0.0134281	
18.7 Depth of Channel	18.69299	18.7	0.04	-0.04	-0.0070101	
11.927 Dim R5.4 Pocket 1_Z	11.93877	11.927	0.3	-0.3	0.0117675	
11.927 Dim R9.6 Pocket 1_Z	11.96378	11.927	0.3	-0.3	0.0367751	
49.566 Line	-49.5853	-49.566	0.025	-0.025	-0.0192984	
4.527 Angle Pocket 2	4.541577	4.527	0.25	-0.25	0.014577	
8.8 Width Pocket 2_Z	8.792119	8.8	0.025	-0.025	-0.0078813	
20.00 Dim Pocket 2	19.99319	20	0.2	-0.2	-0.0068098	
9.100 Dim Pocket 2	9.098008	9.1	0.3	-0.3	-0.0019916	
4.500 Dim Pocket 2	4.521764	4.5	0.3	-0.3	0.0217643	
25.5750 Dim Pocket 2	25.57832	25.575	0.025	-0.025	0.0033247	
18.7 Depth Pocket 2	18.69949	18.7	0.04	-0.04	-0.0005117	
3.7 Dim Pocket 2_Y	3.709406	3.7	0.045	-0.045	0.0094059	
1.5 Dim Pocket 2_Y	1.503753	1.5	0.3	-0.3	0.0037525	
.150 Dim Pocket 2 Top	0.147267	0.15	0.1	-0.1	-0.0027331	
.15 Dim Pocket 2 Bottom_Z	0.148974	0.15	0.3	-0.1	-0.0010258	
16.104 Dim Pocket 2	-16.0977	-16.104	0.045	-0.045	0.0062833	
1.140 Dim Pocket 2	1.136217	1.14	0.05	-0.05	-0.0037833	
1.4 Distance pocket 2	1.321887	1.4	0.3	-0.3	-0.0781128	
11.927 Dim R5.4 Pocket 2_Z	11.91812	11.927	0.3	-0.3	-0.0088826	
11.927 Dim R9.6 Pocket 2_Z	11.99046	11.927	0.3	-0.3	0.0634551	

Below are suggested edits.

## EDIT THE REPORT

First highlight Row 14 down through the remainder of the cells and change the cell format from General to Number and change the decimal places.

Characteristic	Actual	Nominal	Upper Tol	Lower Tol	Deviation
1.739 Line	-1.7742	-1.739	0.025	-0.025	-0.0352032
4.527 Angle Pocket 1	-4.54435	-4.527	0.5	-0.5	-0.0173471
16.104 Dim Pocket 1	16.11387	16.104	0.045	-0.045	0.0098727
25.575 Dim Pocket 1_X	25.574				
20.00 Dim Pocket 1	20.00				
1.14 Distance Pocket 1	1.1414				
8.8 Width Pocket 1_Z	8.7916				
.15 Dim Pocket 1 Top_Z	0.150				
.15 Dim Pocket 1 Bottom	0.145				
4.50 Dim Pocket 1_X	4.5548				
1.4 Distance pocket 1	1.2787				
9.100 Dim Pocket 1	9.1139				
18.7 Plane Pocket 1	18.695				
3.7 Dim Pocket 1_Y	3.6763				
1.5 Dim Pocket 1_Y	1.4865				
18.7 Depth of Channel	18.692				
11.927 Dim R5.4 Pocket 1_Z	11.938				
11.927 Dim R9.6 Pocket 1_Z	11.963				
49.566 Line	-49.58				
4.527 Angle Pocket 2	4.5415				
8.8 Width Pocket 2_Z	8.7921				
20.00 Dim Pocket 2	19.993				

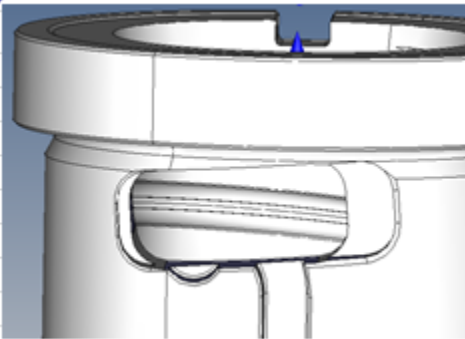
Number	Alignment	Font	Border	Fill	Protection
Category:					
General					
Number					
Currency					
Accounting					
Date					
Time					
Percentage					
Fraction					
Scientific					
Text					
Special					
Custom					

Click on Cell B2 and delete “Calypso Measuring Results”

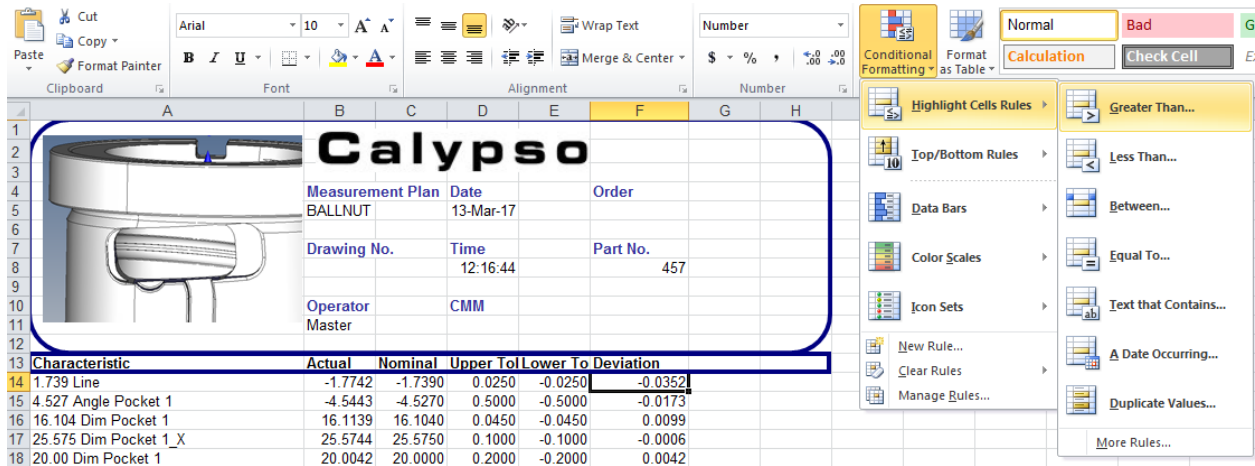
Insert a picture i.e. Calypso Logo

<h1>Calypso</h1>			
<b>Measurement Plan</b>	<b>Date</b>	<b>Order</b>	
BALLNUT	13-Mar-17		
<b>Drawing No.</b>	<b>Time</b>	<b>Part No.</b>	
	12:16:44	457	
<b>Operator</b>	<b>CMM</b>		
Master			

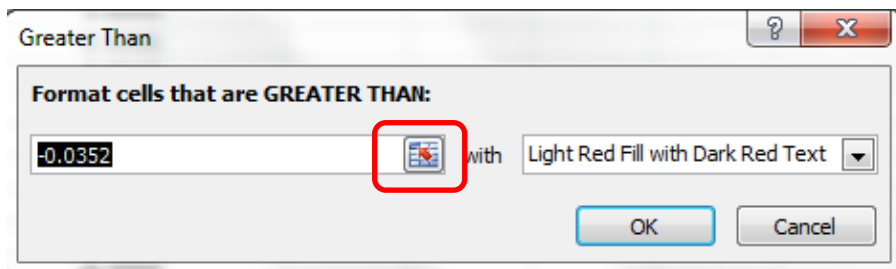
Maybe you would like a picture of the part as shown. Just insert a picture, resize it and drag to where you would like it.

	<h1>Calypso</h1>		
	<b>Measurement Plan</b>	<b>Date</b>	<b>Order</b>
	BALLNUT	13-Mar-17	
	<b>Drawing No.</b>	<b>Time</b>	<b>Part No.</b>
		12:16:44	457
	<b>Operator</b>	<b>CMM</b>	
	Master		

One edit that will make the report standout is creating conditional formatting for each cell. We will change the color of the cell to reflect if the value is in tolerance or not.



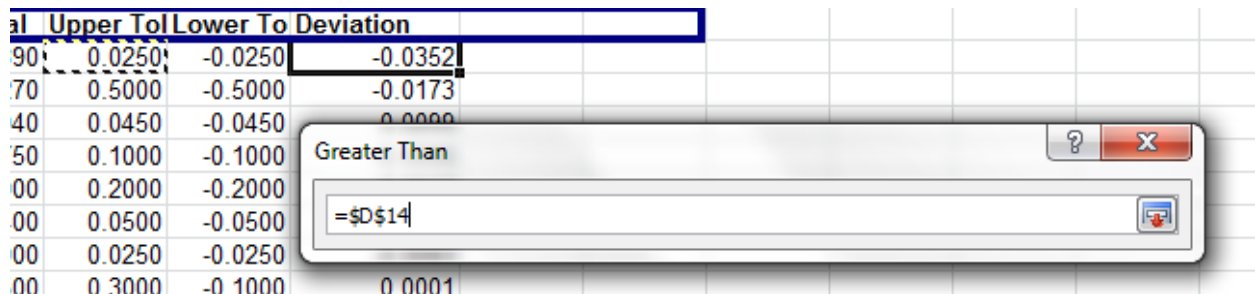
Highlight the F14 and click on Conditional Formatting/ Highlight Cells Rules. Now select Greater Than...

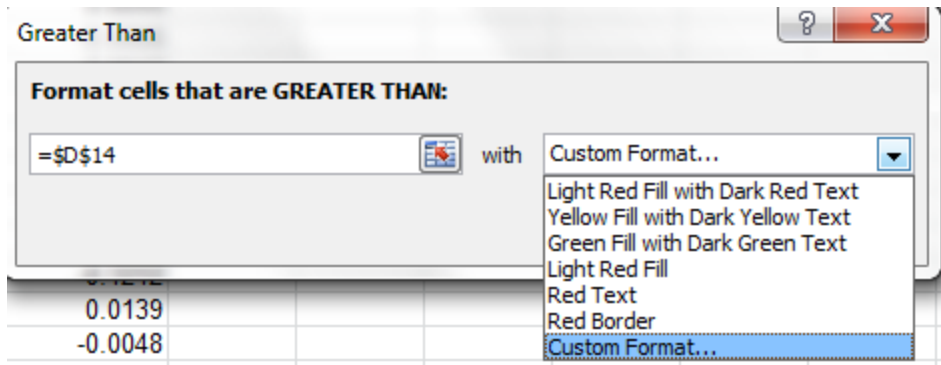


This box will appear.

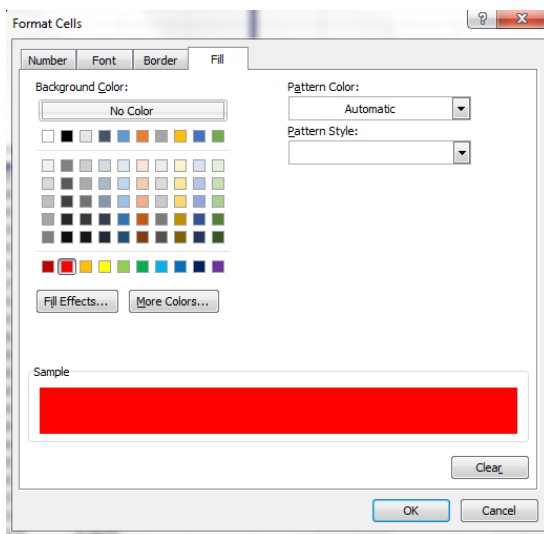
We now need to select the icon and click on the cell to compare the F14 cell to.

Select D14 cell then select the icon again.





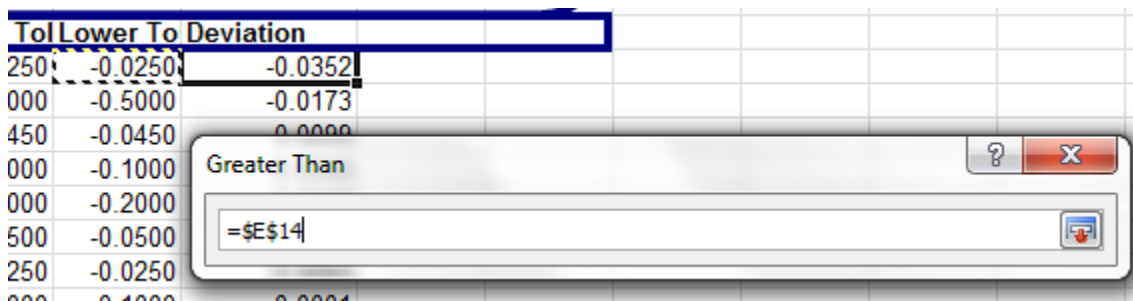
Choose Custom Format...



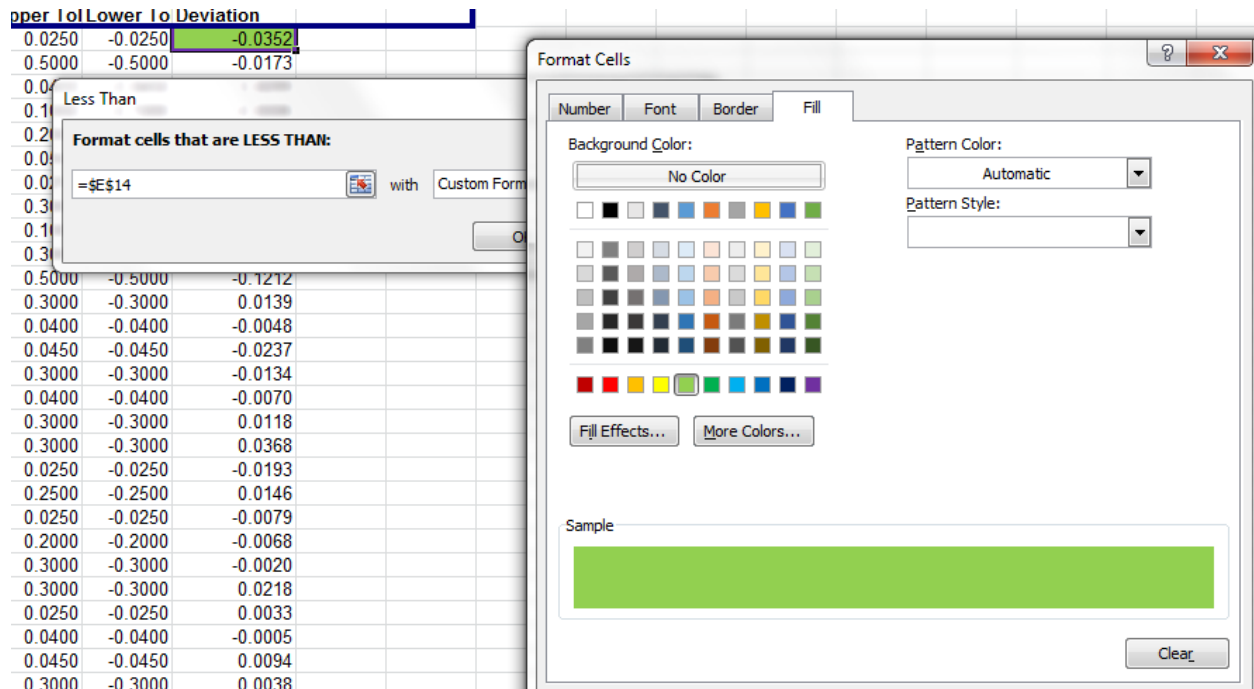
Go to the Fill tab and select RED. Click OK to completely exit out of this command

So we are entering a command if F14 (-0.035) value is Greater Than ... the D14 (0.0250) value then fill this cell with RED.

Now repeat by selecting Conditional Formatting/ Highlight Cells Rules. Now select Greater Than... This time, with F14 selected, click on the icon and select E14.

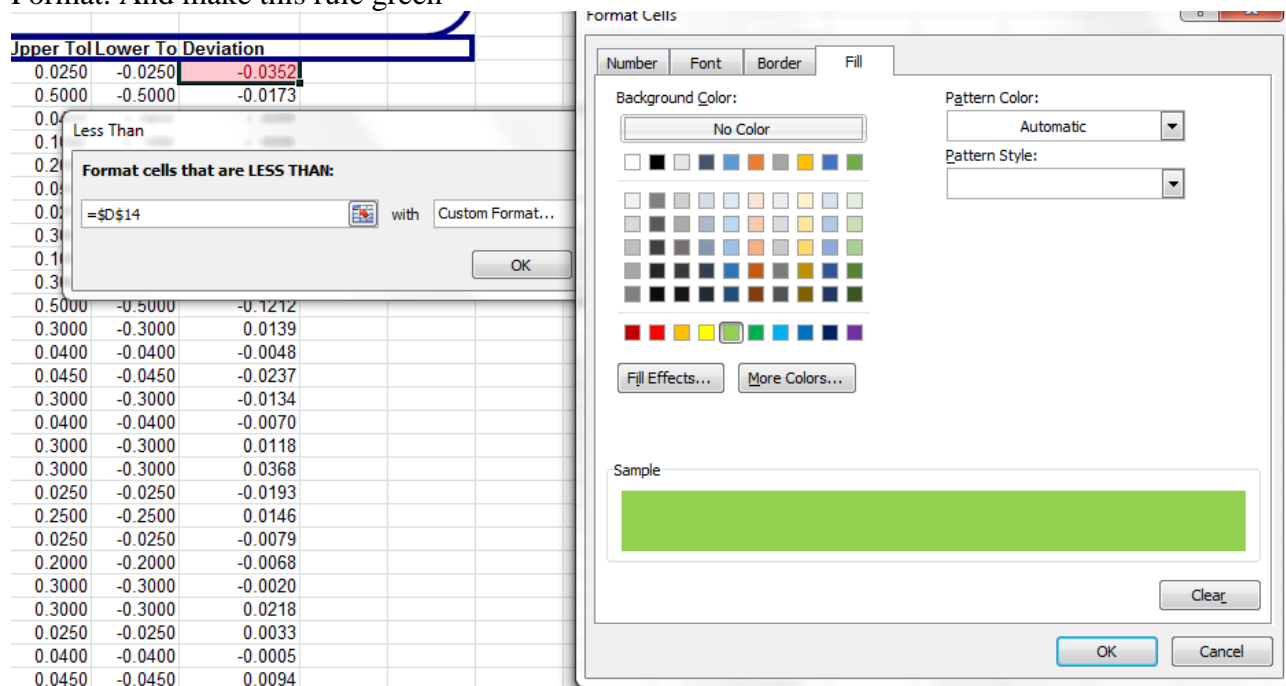


Select the icon again and repeat as above to select the RED fill if this value is greater than.



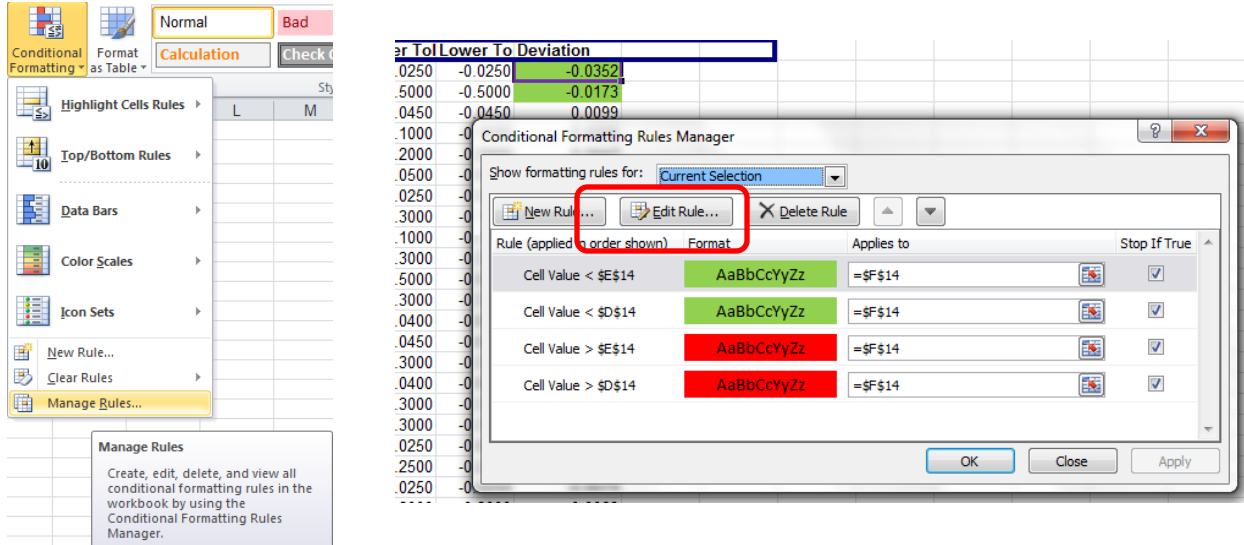
So we are entering a command if F14 (-0.035) value is Greater Than ... the E14 (-0.0250) value then fill this cell with RED.

Now what if the number is LESS Than... or between the plus and minus tolerances? Let's create that rule. We create this rule by selecting Conditional Formatting/ Highlight Cells Rules. Now select Less Than... This time, with F14 selected, click on the icon and select D14. Select Custom Format. And make this rule green



If value F14 (-0.035) is between D14 and E14 (+/-0.025) then the cell will be green. If F 4 is greater than either D14 or E14 the cell will be red.

If at any time you need to correct one of the rules highlight the cell that need editing and select Conditional Formatting and select Manage Rules.



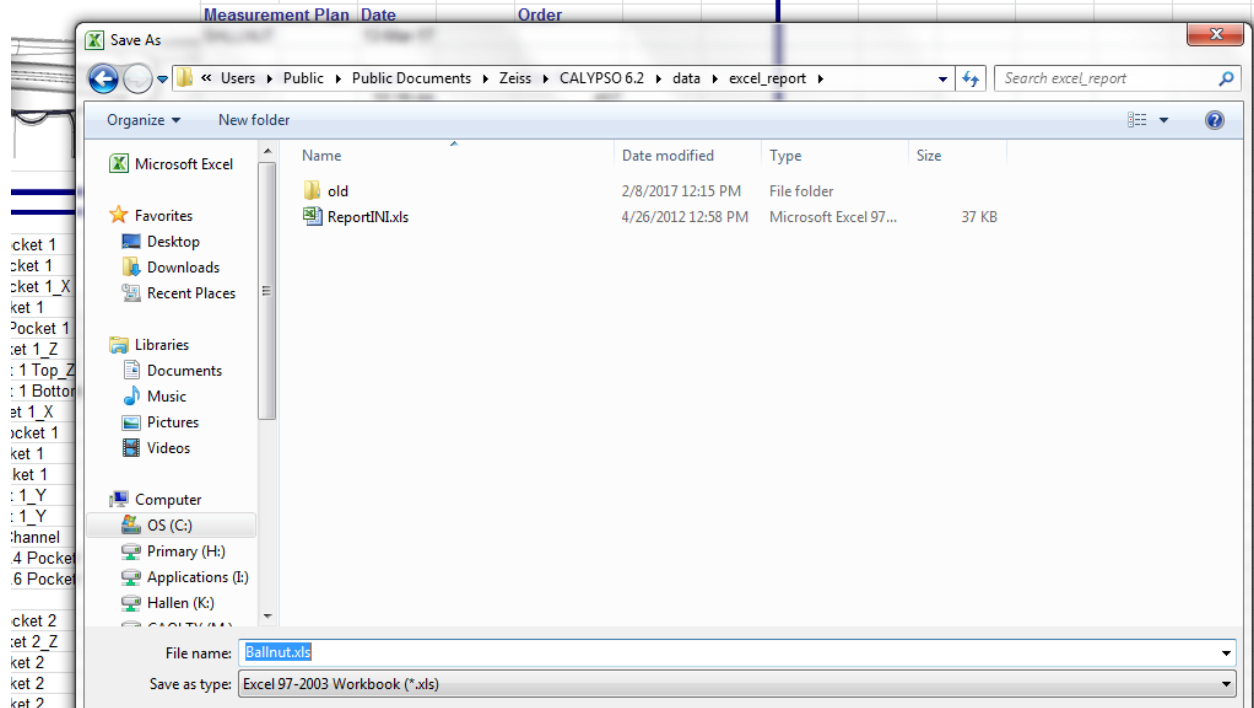
Keep repeating the process until all the cells are complete. Remember if it is greater than the tolerance either in the positive or negative then the cell needs to be red. If it is less than the positive or negative tolerance then the cell needs to be green.

**The next step is IMPORTANT. Highlight all the cells starting at A14 across to F14 and down the entire worksheet. Once this is done right click and select Clear Contents.**

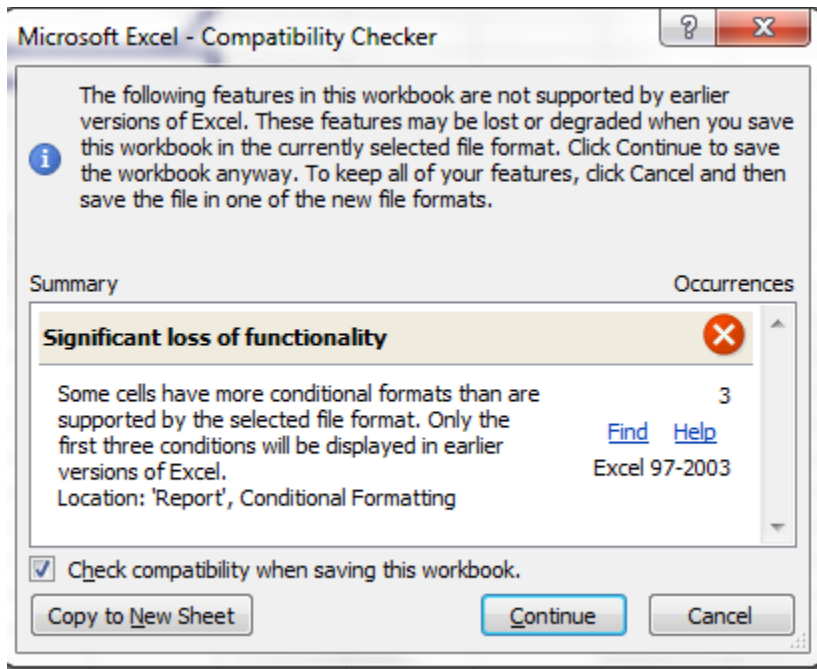
Characteristic	Actual	Nominal	Upper Tol	Lower To	Deviation
1.739 Line	-1.7742	-1.7390	0.0250	-0.0250	-0.0352
4.527 Angle Pocket 1	-4.5443	-4.5270	0.5000	-0.5000	-0.0173
16.104 Dim Pocket 1	16.1139	16.1040	0.0450	-0.0450	0.0099
25.575 Dim Pocket 1_X	25.5744	25.5750	0.1000	-0.1000	-0.0006
20.00 Dim Pocket 1	20.0042	20.0000	0.2000	-0.2000	0.0042
1.14 Distance Pocket 1	1.1414	1.1400	0.0500	-0.0500	0.0014
8.8 Width Pocket 1_Z	8.7917	8.8000	0.0250	-0.0250	-0.0083
.15 Dim Pocket 1 Top_Z	0.1501	0.1500	0.3000	-0.1000	0.0001
.15 Dim Pocket 1 Bottom	0.1460	0.1500	0.1000	-0.1000	-0.0040
4.50 Dim Pocket 1_X	4.5549	4.5000	0.3000	-0.3000	0.0549
1.4 Distance pocket 1	1.2788	1.4000	0.5000	-0.5000	-0.1212
9.100 Dim Pocket 1	9.1139	9.1000	0.3000	-0.3000	0.0139
18.7 Plane Pocket 1	18.6952	18.7000	0.0400	-0.0400	-0.0048
3.7 Dim Pocket 1_Y	3.6763	3.7000	0.0450	-0.0450	-0.0237
1.5 Dim Pocket 1_Y	1.4866	1.5000	0.3000	-0.3000	-0.0134
18.7 Depth of Channel	18.6930	18.7000	0.0400	-0.0400	-0.0070
11.927 Dim R5.4 Pocket 1_Z	11.9388	11.9270	0.3000	-0.3000	0.0118
11.927 Dim R9.6 Pocket 1_Z	11.9638	11.9270	0.3000	-0.3000	0.0368
49.566 Line	-49.5853	-49.5660	0.0250	-0.0250	-0.0193
4.527 Angle Pocket 2	4.5416	4.5270	0.2500	-0.2500	0.0146
8.8 Width Pocket 2_Z	8.7921	8.8000	0.0250	-0.0250	-0.0079
20.00 Dim Pocket 2	19.9932	20.0000	0.2000	-0.2000	-0.0068
9.100 Dim Pocket 2	9.0980	9.1000	0.3000	-0.3000	-0.0020
4.500 Dim Pocket 2	4.5218	4.5000	0.3000	-0.3000	0.0218
25.5750 Dim Pocket 2	25.5783	25.5750	0.0250	-0.0250	0.0033
18.7 Depth Pocket 2	18.6995	18.7000	0.0400	-0.0400	-0.0005
3.7 Dim Pocket 2_Y	3.7094	3.7000	0.0450	-0.0450	0.0094
1.5 Dim Pocket 2_Y	1.5038	1.5000	0.3000	-0.3000	0.0038
.150 Dim Pocket 2 Top	0.1473	0.1500	0.1000	-0.1000	-0.0027
.15 Dim Pocket 2 Bottom_Z	0.1490	0.1500	0.3000	-0.1000	-0.0010
16.104 Dim Pocket 2	-16.0977	-16.1040	0.0450	-0.0450	0.0063
1.140 Dim Pocket 2	1.1362	1.1400	0.0500	-0.0500	-0.0038
1.4 Distance pocket 2	1.3219	1.4000	0.3000	-0.3000	-0.0781
11.927 Dim R5.4 Pocket 2_Z	11.9181	11.9270	0.3000	-0.3000	-0.0089



Save the Excel Report as a .xls under the DATA directory of your Calypso install.



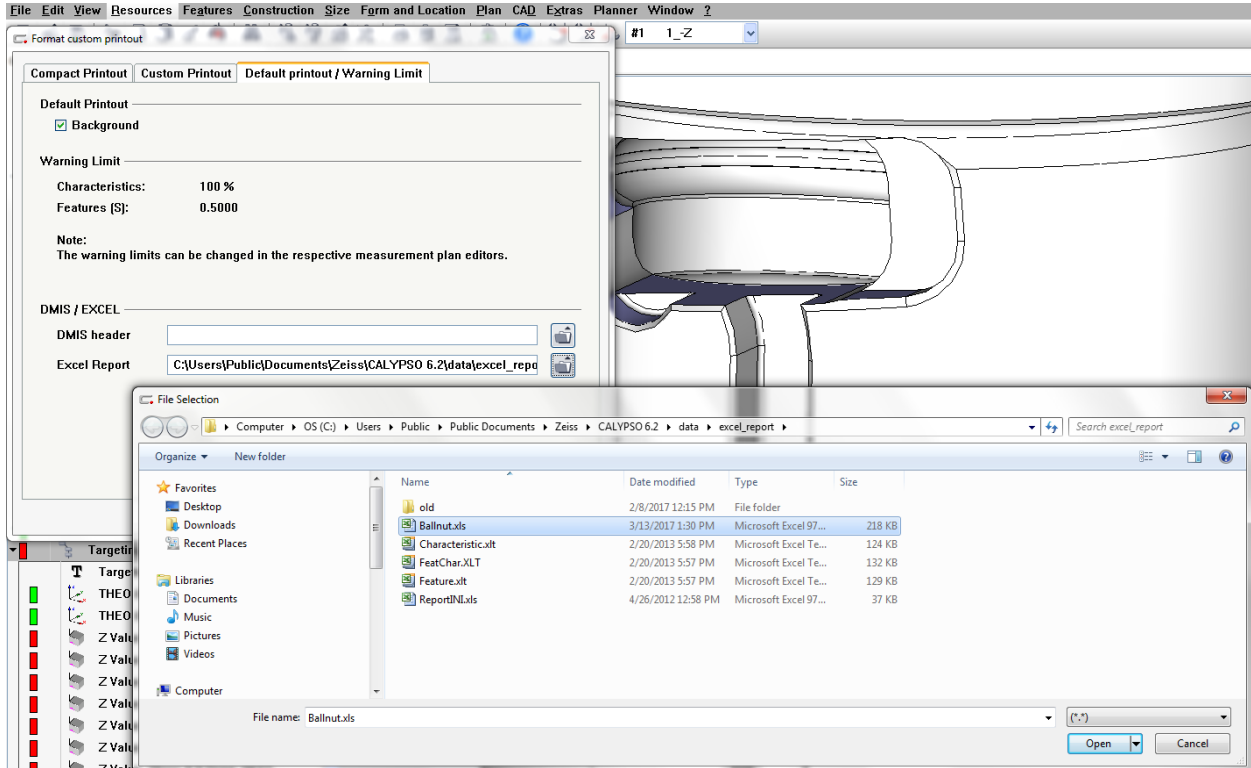
Possible Error depending on the Excel version you have.



Just click OK

Now we need to associate this excel report with the measurement plan.

Go to Resources/ Define Printout/ Default Report and click on the folder in the Excel Report line and navigate to your saved excel report.



This is how the report will look.

Calypso					
	<b>Measurement Plan</b>	<b>Date</b>	<b>Order</b>		
	JTek-BALLNUT-Op05	13-Mar-17			
	<b>Drawing No.</b>	<b>Time</b>	<b>Part No.</b>		
	13:37:31	457			
<b>Operator</b>	<b>CMM</b>				
Master					
Characteristic	Actual	Nominal	Upper Tol	Lower To	Deviation
1.739 Line	-1.7742	-1.7390	0.0250	-0.0250	-0.0352
4.527 Angle Pocket 1	-4.5443	-4.5270	0.5000	-0.5000	-0.0173
16.104 Dim Pocket 1	16.1139	16.1040	0.0450	-0.0450	0.0099