Qualification Type: OQ

Test Case # Title

Section #

2 Test Case: Calculation Worksheet and the Plotting Mass vs. Volume Chart

Purpose

8.1.

To demonstrate functionality of the Calculation Worksheet and the Plotting Mass vs. Volume chart.

Acceptance Criteria

The Calculation Worksheet:

Allows users to enter appropriate values for Sample, Mass and Volume.

Calculates Maximum(Volume), Minimum(Volume) and Average(Volume).

Calculates Volume^2.

Allows users to secure and unsecure data by adding or removing electronic signatures.

Is properly formatted for printing.

Records changes in user data to the ExcelSafe audit trail.

The Plotting Mass vs. Volume Chart: Plots Mass (X-axis) vs. Volume (Y-axis). Plots Volume and Volume².

Test Case: 2. Test Case: Calculation Worksheet and the Plotting Mass vs. Volume Chart Step # Procedure **Expected Result Actual Result** P/F Init. Date The Calculation Worksheet allows users to enter appropriate values for Sample, Mass and Volume. The Example Validation Open the Example Validation spreadsheet through The Example Validation DW 12-Nov-08 1 Pass ExcelSafe. Navigate to the Calculation worksheet. spreadsheet opens without spreadsheet opens without error. The Calculation error. The Calculation worksheet opens without worksheet opens without error. error. (Note: Created instance of Example Validation spreadsheet Case7dot1.xls for this case. DW 2 Navigate to cell range A6:A36, Sample. Verify that the cell Cell range A6:A36 accepts Cell range A6:A36 accepts Pass 12-Nov-08 data entry. data entry. range accepts data entry.

Snapshot from test step #2

			<u></u>				
	Α	В	С	D			
1							
2	Plotting Mass vs. Volume						
3	Instructions: Enter Sample ID, Mass a			nd Volun	ne. Áp		
4							
5	Sample	Mass	Volume	Volum	e^2		
6	A01			0			
7	A02			0			
8	A03			0			
9	A04			0			
10	A05			0			
11	A06			0			
12	A07			0			
13	A08			0			
1/1				0			
	Sr	napshot from	TC2_Step2				
0	OFNI4 Daniel.Waterman 11:23:23 AM 11/12/2008						
3	3 Navigate to cell range B6:B36, Mass. Verify that the cell Cell range						
	range accepts data entry. data entry						

Test Case: 2. Test Case: Calculation Worksheet and the Pl Step # Procedure				lotting Mass vs. Volume Chart Expected Result			Actual Result	P/F	Init.	Date
Snapshot from test step #3										
	٨		0	D						
	A	В	C	U						
	Plotting M	accive Vel	umo							
2	2 Plotting Mass vs. Volume			nd Volu	mo Ar					
	instructions.	Litter Sampi	e 1D, Wass a		ine. A					
5	Sample	Mass	Volume	Volun	16^2					
6	A01	1		0						
7	A02	2		0		-				
8	A03	3		0						
9	A04	4		0						
10	A05	5		0						
11	A06	6		0						
12	A07	7		0						
13	A08	8		0		-				
			T00.012							
	Snapshot from TC2_Step3									
	DENIA Danial	Waterman 11	1-25-11 AM 1	1/12/20	08					
<u>`</u>	Di Ni4 Daniei.	waterman 1	1.25. TT AIVE 1	1/12/20	00					
4	Navigate to cell	range C6:C36, Vo	olume. Verify tha	t the cell	Cell rang	ge C6:C36 accepts	Cell range C6:C36 accepts	Pass	DW	12-Nov-08
The Cal	culation Workshe	et calculates Max	imum(Volume), l	Minimum	(Volume)	and Average(Volur	me).			
5	Navigate to the	cell G6, Max(Vol	ume). Record the		Calculation in cell G6		Calculation in cell G6	Pass	DW	12-Nov-08
	calculation cell G6 should perform.				recorded.		recorded.			
							maximum value of volume.			
6	Record the formula in cell G6. Verify that the formula correctly models the intended calculation.				Formula in cell G6 recorded. The formula correctly models the intended calculation.		Calculation recorded. Calculation: =MAX(C6:C36) The formula correctly models the intended	Pass	DW	12-Nov-08
							calculation.	_		
	Manually perform the calculation in cell G6. Verify that the manual calculation matches the spreadsheet calculation.				The manual calculation matches the spreadsheet		The manual calculation matches the spreadsheet calculation.	Pass	Dw	12-Nov-08
	manual calculation matches the spreadsheet calculation.					on.				
						Manual Calculation: 4 (4 is the maximum value of 0.5				
							1, 1.5, 2, 2.5, 3, 3.5 and 4.			
							See screen shot in Step 4.)			
Snono	hat from toot at	n #7					Spreadsheet Calculation: 4			
Shaps		<u>;p #7</u>	-							
	0 (-1		-							
	ax(volume) =	- 4	_							
S.	anchot from	TC2_Stop7								
	aponot nom	TOZ_Otep/								
0	FNI4 Daniel	Waterman								
1	1:35:05 AM 1	1/12/2008								
<u> </u>										
8	Navigate to the	cell G8 Min(Volu	ime) Record the		Calculat	ion in cell G8	Calculation in cell G8	Pass	DW	12-Nov-08
0	calculation cell G8 should perform.					l.	recorded.	1 455	DW	12-1101-00
						Calculation: Computes the				
							minimum value of volume.			
Monda	y, August 12, 201	3								Page 2 of 29

Test Ca	ase: 2. Test Case: Calculation Worksheet and the Plotting M	lass vs. Volume Chart				
Step #	Procedure	Expected Result	Actual Result	P / F	Init.	Date
9	Record the formula in cell G8. Verify that the formula correctly models the intended calculation.	Formula in cell G8 recorded. The formula correctly models the intended calculation.	Calculation recorded. Calculation: =MIN(C6:C36) The formula correctly models the intended calculation.	Pass	DW	12-Nov-08
10	Manually perform the calculation in cell G8. Verify that the manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation. Manual Calculation: 0.5 (0.5 is the minimum value of 0.5, 1, 1.5, 2, 2.5, 3, 3.5 and 4. See screen shot in Step 4.) Spreadsheet Calculation: 0.5	Pass	DW	12-Nov-08
11	Navigate to the cell G10, Average(Volume). Record the calculation cell G10 should perform.	Calculation in cell G10 recorded.	Calculation in cell G10 recorded. Calculation: Computes the average value of all volume data. Average(Volume) = Sum(Volume)/Count(Volume)	Pass	DW	12-Nov-08
12	Record the formula in cell G10. Verify that the formula correctly models the intended calculation.	Formula in cell G10 recorded. The formula correctly models the intended calculation.	Calculation recorded. Calculation: =AVERAGE(C6:C36) The formula correctly models the intended calculation.	Pass	DW	12-Nov-08
)x	Snapshot from TC2_Step12 OFNI4 aniel.Waterman 11:37:47 AM 11/12/2008					
13	Manually perform the calculation in cell G10. Verify that the manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation. Manual Calculation: 2.25 (0.5 + 1 + 1.5 + 2 + 2.5 + 3) + 3.5 + 4 = 18. 18/8 = 2.25.) Spreadsheat Calculation: 2.25	Pass	DW	12-Nov-08
Snaps	hot from test step #13		Spreadsheet Calculation: 2.23			
Aver Sn C	age(Volume) = 2.25 apshot from TC2_Step13 DFNI4 Daniel.Waterman 1:40:34 AM 11/12/2008					
The Calo	culation Worksheet calculates Volume^2.			P	DU	10.31 00
	Navigate to cell range D6:D36, (C6:C)^2. Record the calculation cell range D6:D36 should perform in absolute terms and in relative terms.	Calculation recorded.	Calculation recorded. Absolute Calculation: Square the value of the volume cell Relative Calculation: =(C- 1)^2	Pass	DW	12-Nov-08