

	A	B	C	D	E	F	G	H	I	J	K	L											
1	<b>UCL Statistics for Uncensored Full Data Sets</b>																						
2																							
3																							
4																							
5	User Selected Options																						
6	Date/Time of Computation	ProUCL 5.110/13/2016 2:42:19 PM																					
7	From File	ProUCL input 01-007(a) 0-1, 0-5, 0-10.xls																					
8	Full Precision	OFF																					
9	Confidence Coefficient	95%																					
10	Number of Bootstrap Operations	2000																					
11	<b>Plutonium-239/240</b>																						
12																							
13	<b>General Statistics</b>																						
14	Total Number of Observations	15		Number of Distinct Observations				15															
15				Number of Missing Observations				0															
16	Minimum	0.17		Mean				6.797															
17	Maximum	22.3		Median				5.82															
18	SD	7.068		Std. Error of Mean				1.825															
19	Coefficient of Variation	1.04		Skewness				1.372															
20																							
21	<b>Normal GOF Test</b>																						
22	Shapiro Wilk Test Statistic	0.82		<b>Shapiro Wilk GOF Test</b>																			
23	5% Shapiro Wilk Critical Value	0.881		Data Not Normal at 5% Significance Level																			
24	Lilliefors Test Statistic	0.19		<b>Lilliefors GOF Test</b>																			
25	5% Lilliefors Critical Value	0.22		Data appear Normal at 5% Significance Level																			
26	Data appear Approximate Normal at 5% Significance Level																						
27																							
28	<b>Assuming Normal Distribution</b>																						
29	<b>95% Normal UCL</b>				<b>95% UCLs (Adjusted for Skewness)</b>																		
30	95% Student's-t UCL	10.01		95% Adjusted-CLT UCL (Chen-1995)				10.49															
31				95% Modified-t UCL (Johnson-1978)				10.12															
32																							
33	<b>Gamma GOF Test</b>																						
34	A-D Test Statistic	0.243		<b>Anderson-Darling Gamma GOF Test</b>																			
35	5% A-D Critical Value	0.77		Detected data appear Gamma Distributed at 5% Significance Level																			
36	K-S Test Statistic	0.125		<b>Kolmogorov-Smirnov Gamma GOF Test</b>																			
37	5% K-S Critical Value	0.229		Detected data appear Gamma Distributed at 5% Significance Level																			
38	Detected data appear Gamma Distributed at 5% Significance Level																						
39																							
40	<b>Gamma Statistics</b>																						
41	k hat (MLE)	0.846		k star (bias corrected MLE)				0.721															
42	Theta hat (MLE)	8.033		Theta star (bias corrected MLE)				9.423															
43	nu hat (MLE)	25.38		nu star (bias corrected)				21.64															
44	MLE Mean (bias corrected)	6.797		MLE Sd (bias corrected)				8.003															
45				Approximate Chi Square Value (0.05)				12.07															
46	Adjusted Level of Significance	0.0324		Adjusted Chi Square Value				11.2															
47																							
48	<b>Assuming Gamma Distribution</b>																						
49	95% Approximate Gamma UCL (use when n>=50)	12.19		95% Adjusted Gamma UCL (use when n<50)				13.14															
50																							
51	<b>Lognormal GOF Test</b>																						
52	Shapiro Wilk Test Statistic	0.937		<b>Shapiro Wilk Lognormal GOF Test</b>																			

