MW-67D Cis-1,2 DCE									
General Statistics									
Total Number of Observations		6	Number of Distinct Observations					5	
Number of Detects		4	Number of	Non-Detect	s		2		
Number of Distinct Detects		3	Number of Distinct Non-Detects					2	
Minimum Detect		0.33	Minimum Non-Detect					0.3	
Maximum Detect		0.35	Maximum N	Non-Detect				0.71	
Variance Detects		9.17E-05	Percent No	n-Detects				33.33%	
Mean Detects		0.338	SD Detects					0.00957	
Median Detects		0.335	CV Detects					0.0284	
Skewness Detects		0.855	Kurtosis De	etects				-1.289	
Mean of Logged Detects		-1.086	SD of Logge	ed Detects				0.0282	
Note: Sample size is small (e.g., <	10), if data are collected (using increm	nental samp	ling method	ology (ISM) a	approach,			
refer also to ITRC Tech Reg Guide	on ISM (ITRC 2020 and ITI	RC 2012) for	r additional g	guidance,					
but note that ITRC may recommer	id the t-UCL or the Cheby	shev UCL fo	r small sam	ple sizes (n	< 7).				
The Chebyshev UCL often results	in gross overestimates of	f the mean.							
Refer to the ProUCL 5.2 Technica	Guide for a discussion o	f the Chebys	shev UCL.						
Normal GOF Test on Detects Only									
Shapiro Wilk Test Statistic		0.865	Shapiro Wil	k GOF Test					
1% Shapiro Wilk Critical Value		0.687	Detected Data appear Normal at 1% Significance				ce Level		
Lilliefors Test Statistic		0.283	83 Lilliefors GOF Test						
1% Lilliefors Critical Value		0.413	Detected D	ata appear l	Normal at 19	6 Significan	ce Level		
Detected Data appear Normal at 2	.% Significance Level								
Note GOF tests may be unreliable	for small sample sizes								
Kaplan-Meier (KM) Statistics using	g Normal Critical Values a	nd other No	nparametric	UCLs					
KM Mean		0.33	KM Standard Error of Mean				0.00864		
90KM SD		0.0167	95% KM (E	BCA) UCL				N/A	
95% KM (t) UCL		0.347	95% KM (Percentile Bootstrap) UCL					N/A	
95% KM (z) UCL		0.344	95% KM Bootstrap t UCL					N/A	
90% KM Chebyshev UCL		0.356	95% KM Chebyshev UCL				0.368		
97.5% KM Chebyshev UCL		0.384	99% KM Ch	ebyshev UC	L			0.416	
Gamma GOF Tests on Detected O	bservations Only								
A-D Test Statistic		0.428	Anderson-D	Darling GOF	Test				
5% A-D Critical Value		0.657	Detected da	ata appear (Gamma Dist	ributed at 5	% Significar	ice Level	

K-S Test Sta	tistic				0.318	Kolmogorov	/-Smirnov G	OF				
						Detected data appear Gamma Distributed at 5% Significance Level						
Detected da	ita appear G	Gamma Dist	ributed at 59	% Significan	ce Level							
Note GOF te	ests may be	unreliable f	or small san	nple sizes								
Gamma Sta	tistics on D	etected Dat	a Only									
k hat (MLE)					1670	k star (bias	corrected M	1LE)			417.6	
Theta hat (M	ILE)					Theta star (;	3.08E-04	
nu hat (MLE)				13357	nu star (bia	s corrected)			3341	
Mean (deteo	cts)				0.338							
Gamma RO	S Statistics	using Imput	ed Non-Det	ects								
GROS may r	not be used	when data s	set has > 50°	% NDs with r	nany tied ob	oservations a	at multiple [DLs				
GROS may r	not be used	when kstar	of detects is	small such	as <1.0, esp	pecially whe	n the sampl	e size is sma	ll (e.g., <15-2	0)		
For such site												
This is espe	cially true w	hen the san	nple size is s	mall.								
For gamma	distributed	detected da	ta, BTVs and	UCLs may	be compute	d using gam	ma distribu	tion on KM e	stimates			
Minimum					0.313						0.333	
Maximum					0.35	Median					0.331	
SD					0.0123	CV					0.037	
k hat (MLE)					870.5	k star (bias	corrected M	1LE)			435.4	
Theta hat (M				3.82E-04	4 Theta star (bias corrected MLE)					7.64E-04		
nu hat (MLE)				10446	nu star (bia	s corrected)			5224	
Adjusted Le	vel of Signif	icance (β)			0.0122							
Approximate	e Chi Squar	e Value (N/A	λ, α)		5057	Adjusted C	hi Square Va	alue (N/A, β)			4997	
95% Gamma Approximate UCL				0.344	95% Gamma Adjusted UCL					N/A		
Estimates o	f Gamma Pa	arameters u	sing KM Esti	mates								
Mean (KM)					0.33	SD (KM)					0.0167	
Variance (Kl	M)				2.80E-04	SE of Mean	(KM)				0.00864	
k hat (KM)					388.9	k star (KM)					194.6	
nu hat (KM)					4667	nu star (KM)				2335	
theta hat (K	M)				8.48E-04	theta star (I	(M)				0.0017	
80% gamma percentile (KM)			0.35	90% gamma percentile (KM)				0.361				
95% gamma	a percentile	(KM)			0.37	99% gamm	a percentile	e (KM)			0.388	
Gamma Kap	lan-Meier (KM) Statisti	CS									
Approximate Chi Square Value (N/A, α)			2224	Adjusted Chi Square Value (N/A, β)					2184			
95% KM Ap	oproximate	Gamma UC	L		0.347	95% KM A	djusted Gar	nma UCL			0.353	

Lognormal GOF Test o	n Detected C) bservations	Only								
Shapiro Wilk Test Stat				0.865	Shapiro Wil	k GOF Test					
10% Shapiro Wilk Crit	ical Value			0.792	Detected D	ata appear l	Lognormal a	t 10% Signif	icance Level		
Lilliefors Test Statistic				0.284	Lilliefors GO	OF Test					
10% Lilliefors Critical Value				0.346	Detected Data appear		Lognormal a	t 10% Signif	icance Level		
Detected Data appea	[.] Lognormal a	t 10% Signifi	cance Leve	l							
Note GOF tests may b	e unreliable f	or small san	nple sizes								
Lognormal ROS Statis	tics Using Im	puted Non-D	etects								
Mean in Original Scale	9			0.333	Mean in Log	gScale				-1.101	
SD in Original Scale				0.0121	SD in Log So	cale				0.0365	
95% t UCL (assumes	s normality of	ROS data)		0.343	95% Perce	entile Boots	trap UCL			0.34	
95% BCA Bootstrap	UCL			0.339	95% Boots	strap t UCL				0.343	
95% H-UCL (Log RO	S)			N/A							
Statistics using KM es	timates on Lo	ogged Data a	nd Assumin								
KM Mean (logged)					KM Geo Me					0.33	
KM SD (logged)			0.0518		al H Value (N/A		
KM Standard Error of Mean (logged)			0.0268		CL (KM -Log)				N/A		
KM SD (logged)			0.0518	95% Critic	al H Value (KM-Log)			N/A		
KM Standard Error of I	lean (logged)			0.0268							
DL/2 Statistics											
DL/2 Normal					DL/2 Log-Tr						
	1ean in Original Scale				Mean in Log					-1.213	
	SD in Original Scale				0.0786 SD in Log Scale					0.336	
95% t UCL (Assumes normality)			0.374 95% H-Stat UCL						0.444		
DL/2 is not a recomm	ended metho	d, provided f	or comparis	ions and his	torical reaso	ns					
Nonparametric Distrib											
Detected Data appear	Normal Disti	ributed at 19	o Significano	ce Level							
Suggested UCL to Use	;										
95% KM (t) UCL				0.347							
Note: Suggestions reg	arding the se	lection of a S	5% UCL are	e provided to	help the us	er to select	the most ap	oropriate 95	% UCL.		
Recommendations ar	e based upon	data size, d	ata distribut	tion, and ske	wness using	g results fro	m simulatio	n studies.			
However, simulations	results will n	ot cover all F	Real World d	ata sets; for	additional in	nsight the u	ser may wan	t to consult	a statistician	۱.	