

Lead		Summary Statistics for Lead		Summary Statistics for ln(Lead)	
Sample ID	Lead (mg/kg)		Lead		ln(Lead)
DD-BOT02	27.23	Number of Samples	14	Minimum	0.819779832
DD-BOT04	24.72	Minimum	2.27	Maximum	5.328507038
DD-BOT05	11.48	Maximum	206.13	Mean	2.845190552
DD-SW03	11.15	Mean	33.29357143	Standard Deviation	1.12980482
DD-SW06	9.67	Median	11.515	Variance	1.27645893
DD-SW07	4.81	Standard Deviation	52.16053852	Shapiro-Wilk Test Statistic	0.957067903
DD-SW17	50.5	Variance	2720.721779	Shapiro-Wilk 5% Critical Value	0.874
DD-SW18	11.55	Coefficient of Variation	1.566684987	Data are Lognormal at 5% Significance Level	
DD-SW19	2.27	Skewness	3.191468434	Estimates Assuming Lognormal Distribution	
DD-SW20	46.9	95 % UCL (Assuming Normal Data)		MLE Mean	32.57092495
DD-SW21	206.13	Student's-t	57.98124856	MLE Standard Deviation	52.35644529
DD-SW22	39.79	95 % UCL (Adjusted for Skewness)		MLE Coefficient of Variation	1.607459579
DD-SW23	8.71	Adjusted-CLT	68.92893965	MLE Skewness	8.975935812
DD-SW24	11.2	Modified-t	59.96301894	MLE Median	17.20483678
		95 % Non-parametric UCL		MLE 80% Quantile	44.69562513
		CLT	56.22363748	MLE 90% Quantile	73.47827216
		Jackknife	57.98124856	MLE 95% Quantile	110.3568803
		Standard Bootstrap	55.39422703	MLE 99% Quantile	238.2014068
		Bootstrap-t	102.8758986	MVU Estimate of Median	16.43582138
		Chebyshev (Mean, Std)	94.05875988	MVU Estimate of Mean	30.45844931
				MVU Estimate of Std. Dev.	39.63625009
				MVU Estimate of SE of Mean	10.11215289
				UCL Assuming Lognormal Distribution	
				95% H-UCL	83.97430197
				95% Chebyshev (MVUE) UCL	74.53630188
				99% Chebyshev (MVUE) UCL	131.0731002
				Recommended UCL to use:	
				95 % Chebyshev (MVUE) UCL	

Mercury

Sample ID	Mercury (mg/kg)	Summary Statistics for Mercury	Summary Statistics for ln(Mercury)
DD-BOT02	0.19	Number of Samples 16	Minimum -3.912023005
DD-BOT03	0.53	Minimum 0.02	Maximum -0.040821995
DD-BOT04	0.07	Maximum 0.96	Mean -2.130673406
DD-SW01	0.51	Mean 0.243125	Standard Deviation 1.247206855
DD-SW02	0.96	Median 0.075	Variance 1.55552494
DD-SW03	0.08	Standard Deviation 0.295244955	
DD-SW06	0.07	Variance 0.087169583	Shapiro-Wilk Test Statistic 0.916367804
DD-SW07	0.04	Coefficient of Variation 1.214375135	Shapiro-Wilk 5% Critical Value 0.887
DD-SW11	0.37	Skewness 1.428296612	Data are Lognormal at 5% Significance Level
DD-SW16	0.76		
DD-SW18	0.12	95 % UCL (Assuming Normal Data)	Estimates Assuming Lognormal Distribution
DD-SW22	0.04	Student's-t 0.372519802	MLE Mean 0.258486726
DD-SW23	0.02		MLE Standard Deviation 0.499727302
DD-SW24	0.05	95 % UCL (Adjusted for Skewness)	MLE Coefficient of Variation 1.933280325
DD-SW25	0.05	Adjusted-CLT 0.392695543	MLE Skewness 13.02561696
DD-SW26	0.03	Modified-t 0.376912483	MLE Median 0.118757295
		95 % Non-parametric UCL	MLE 80% Quantile 0.340689555
		CLT 0.364533684	MLE 90% Quantile 0.589775928
		Jackknife 0.372519802	MLE 95% Quantile 0.924023173
		Standard Bootstrap 0.362533106	MLE 99% Quantile 2.160478531
		Bootstrap-t 0.419141924	MVU Estimate of Median 0.113106716
		Chebyshev (Mean, Std) 0.56486073	MVU Estimate of Mean 0.23931704
			MVU Estimate of Std. Dev. 0.36172596
			MVU Estimate of SE of Mean 0.084318374
			UCL Assuming Lognormal Distribution
			95% H-UCL 0.705555525
			95% Chebyshev (MVUE) UCL 0.606852312
			99% Chebyshev (MVUE) UCL 1.078274269
			Recommended UCL to use: 95 % Chebyshev (MVUE) UCL

Di-n-butylphthalate

Sample ID	Di-n-butylphthalate (mg/kg)	Summary Statistics for	Di-n-butylphthalate	Summary Statistics for	ln(Di-n-butylphthalate)
DD-BOT01	0.86	Number of Samples	14	Minimum	-1.514127733
DD-BOT02	0.33	Minimum	0.22	Maximum	-0.15082289
DD-BOT03	0.22	Maximum	0.86	Mean	-0.851728902
DD-SW01	0.27	Mean	0.458571429	Standard Deviation	0.39561667
DD-SW02	0.66	Median	0.415	Variance	0.156512549
DD-SW03	0.65	Standard Deviation	0.181822278		
DD-SW04	0.4	Variance	0.033059341	Shapiro-Wilk Test Statistic	0.976490865
DD-SW05	0.55	Coefficient of Variation	0.396497179	Shapiro-Wilk 5% Critical Value	0.874
DD-SW06	0.27	Skewness	0.740620366	Data are Lognormal at 5% Significance Level	
DD-SW07	0.42				
DD-SW08	0.32	95 % UCL (Assuming Normal Data)		Estimates Assuming Lognormal Distribution	
DD-SW09	0.56	Student's-t	0.544628241	MLE Mean	0.461407985
DD-SW10	0.5			MLE Standard Deviation	0.189921624
DD-SW11	0.41	95 % UCL (Adjusted for Skewness)		MLE Coefficient of Variation	0.411613214
		Adjusted-CLT	0.548779205	MLE Skewness	1.304577391
		Modified-t	0.546231352	MLE Median	0.426676612
				MLE 80% Quantile	0.596048753
		95 % Non-parametric UCL		MLE 90% Quantile	0.709381737
		CLT	0.538501524	MLE 95% Quantile	0.817961933
		Jackknife	0.544628241	MLE 99% Quantile	1.070874358
		Standard Bootstrap	0.534940133		
		Bootstrap-t	0.562127167	MVU Estimate of Median	0.424297372
		Chebyshev (Mean, Std)	0.670387972	MVU Estimate of Mean	0.458676351
				MVU Estimate of Std. Dev.	0.184955439
				MVU Estimate of SE of Mean	0.049381474
				UCL Assuming Lognormal Distribution	
				95% H-UCL	0.573567464
				95% Chebyshev (MVUE) UCL	0.673925204
				99% Chebyshev (MVUE) UCL	0.950015809
				Recommended UCL to use:	
				Student's-t or H-UCL	