

Appendix J

Boxplot Displays of Test Results for the Accelerated Life, Vibration, Mechanical Shock, and Branch Water Tests

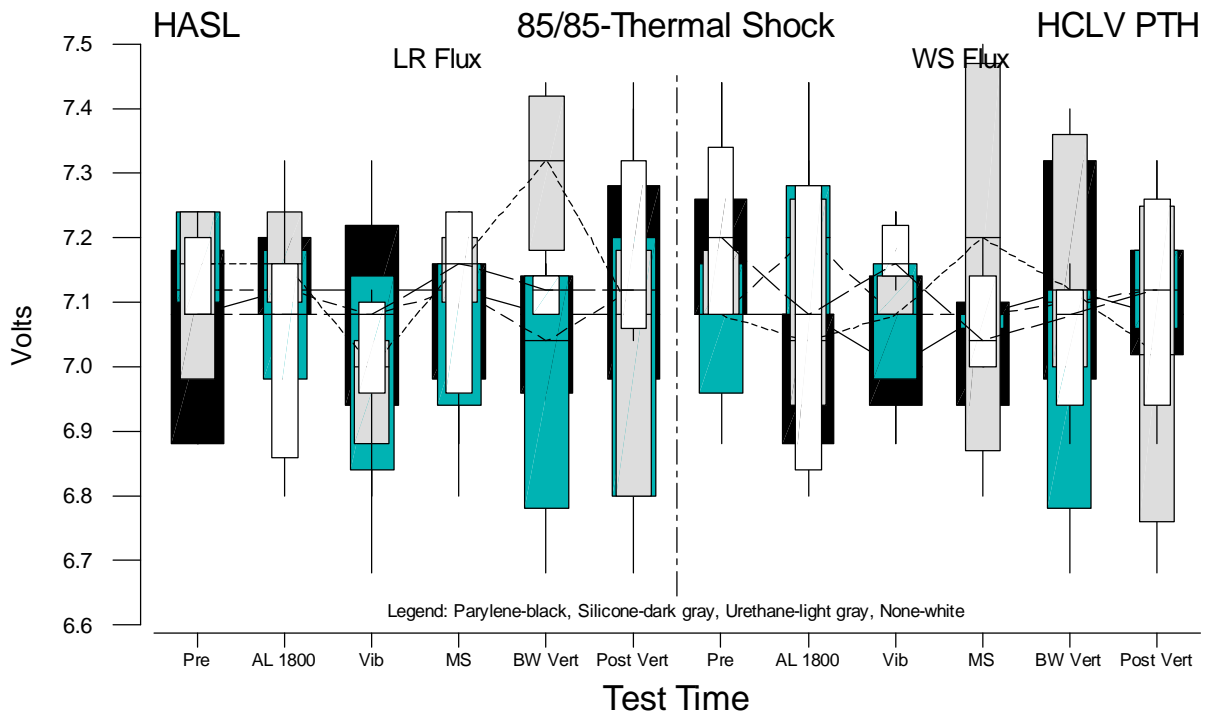


Figure J.1 Boxplots of HCLV PTH Voltage Measurements for HASL versus Test Time

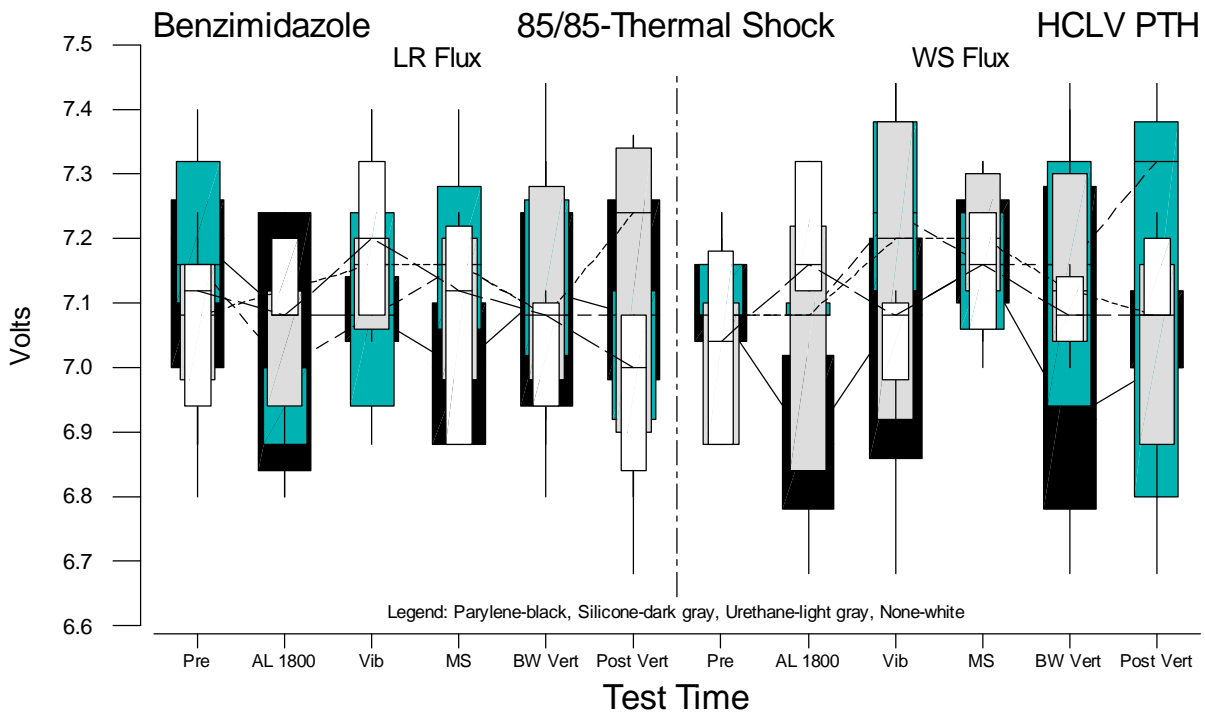


Figure J.2 Boxplots of HCLV PTH Voltage Measurements for Benzimidazole versus Test Time

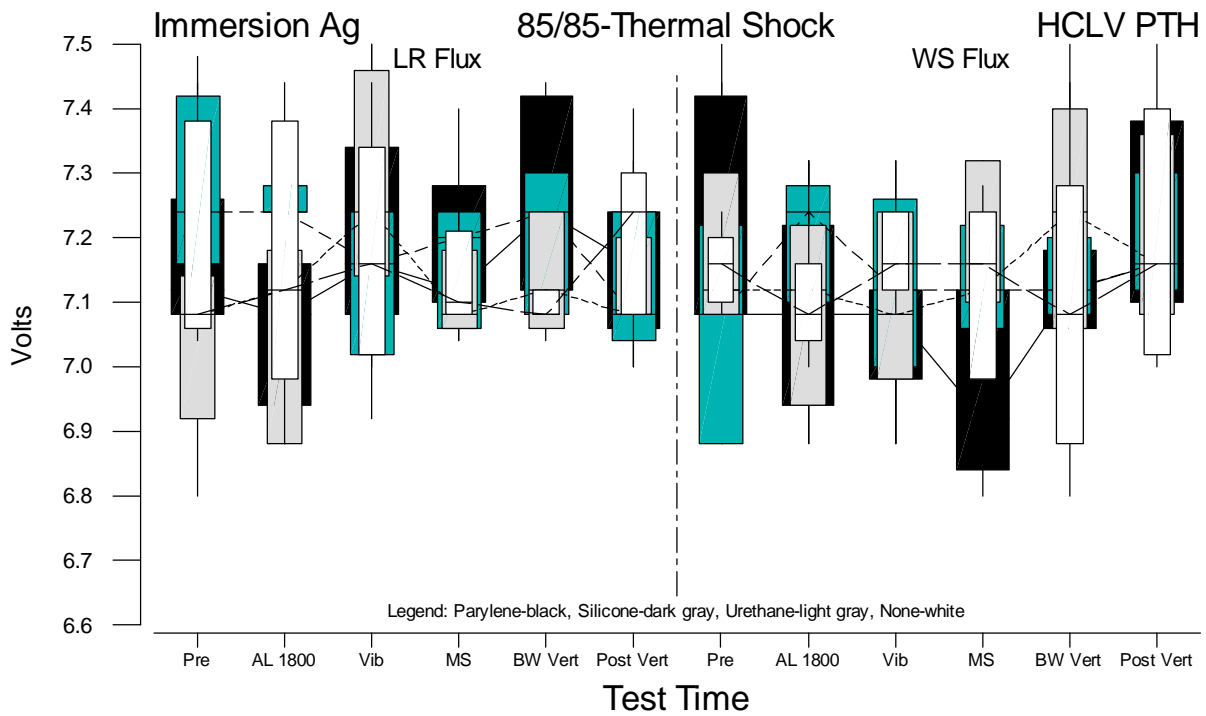


Figure J.3 Boxplots of HCLV PTH Voltage Measurements for Immersion Ag versus Test Time

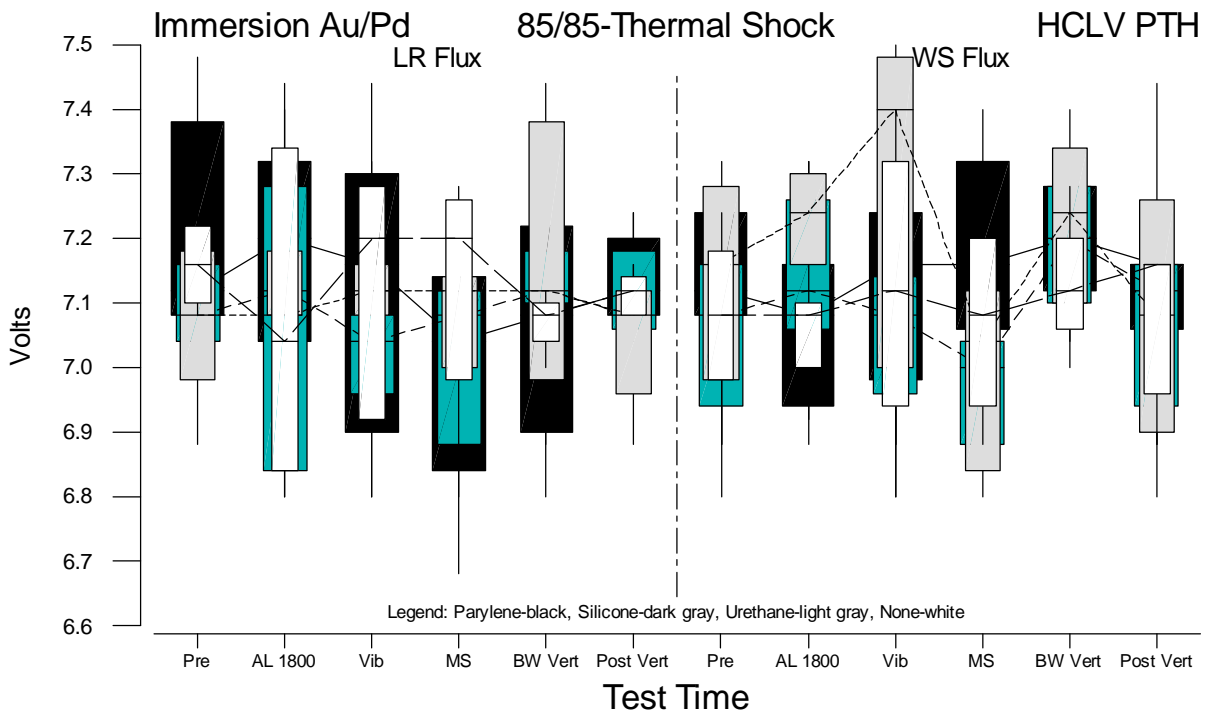


Figure J.4 Boxplots of HCLV PTH Voltage Measurements for Immersion Au/Pd versus Test Time

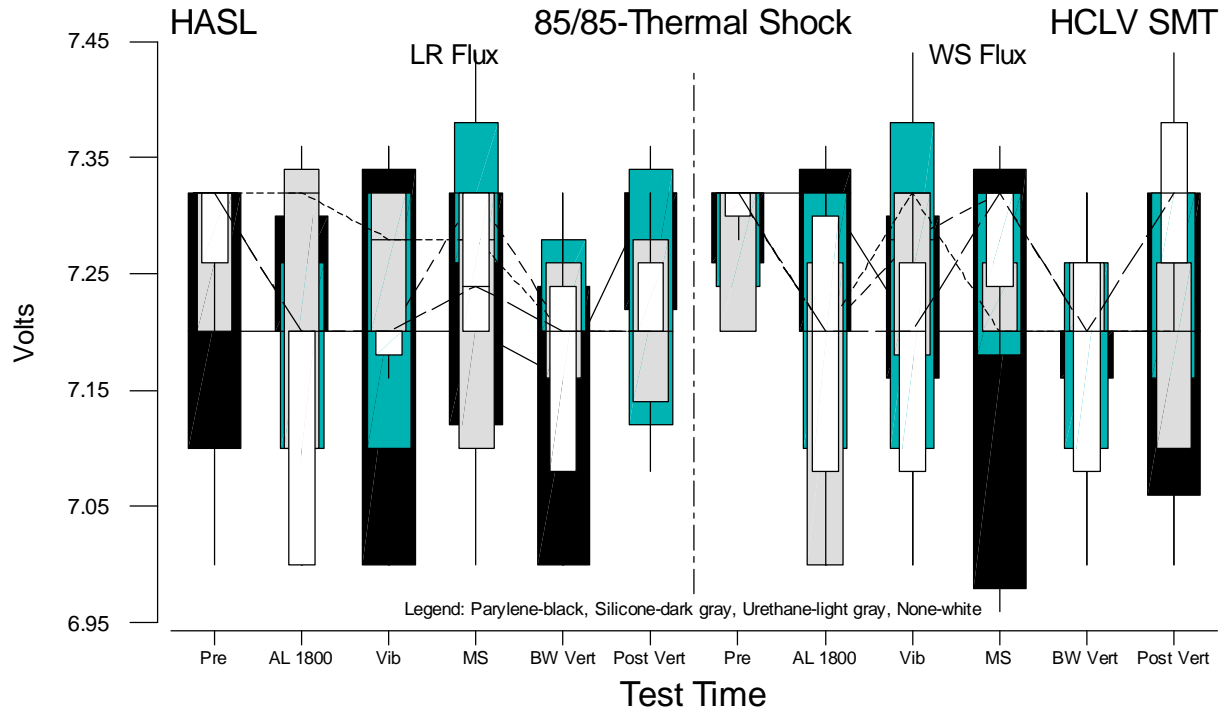


Figure J.5 Boxplots of HCLV SMT Voltage Measurements for HASL versus Test Time

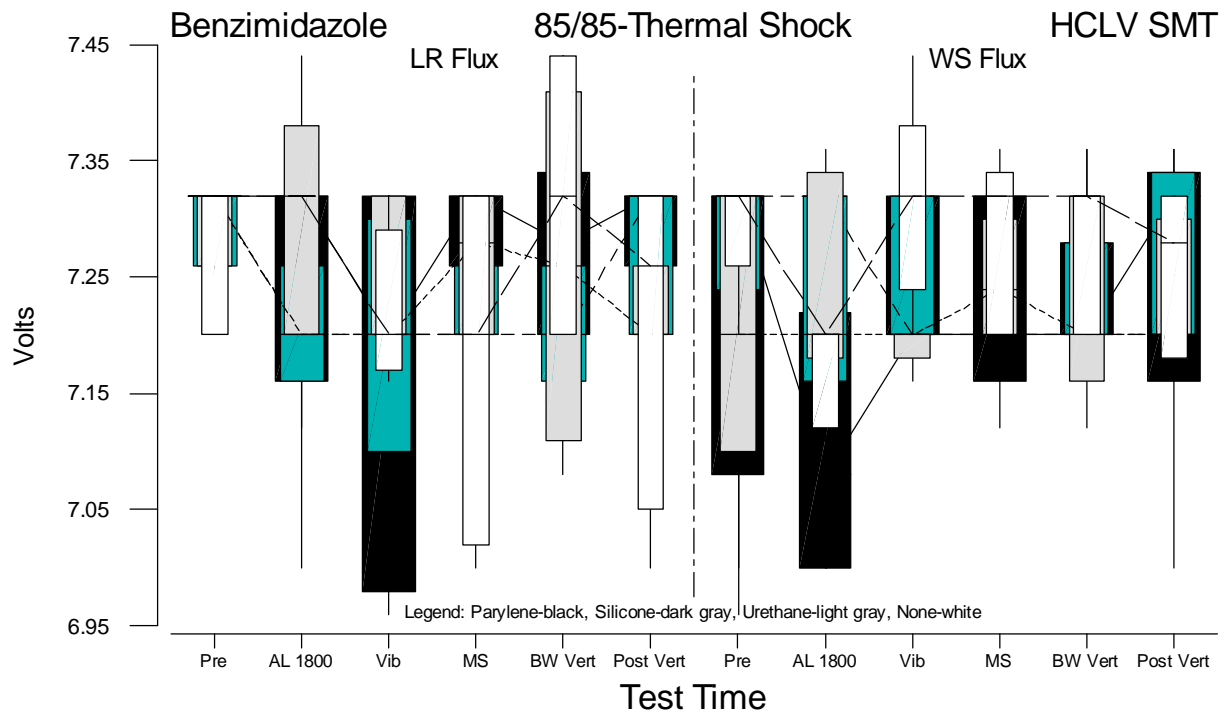


Figure J.6 Boxplots of HCLV SMT Voltage Measurements for Benzimidazole versus Test Time

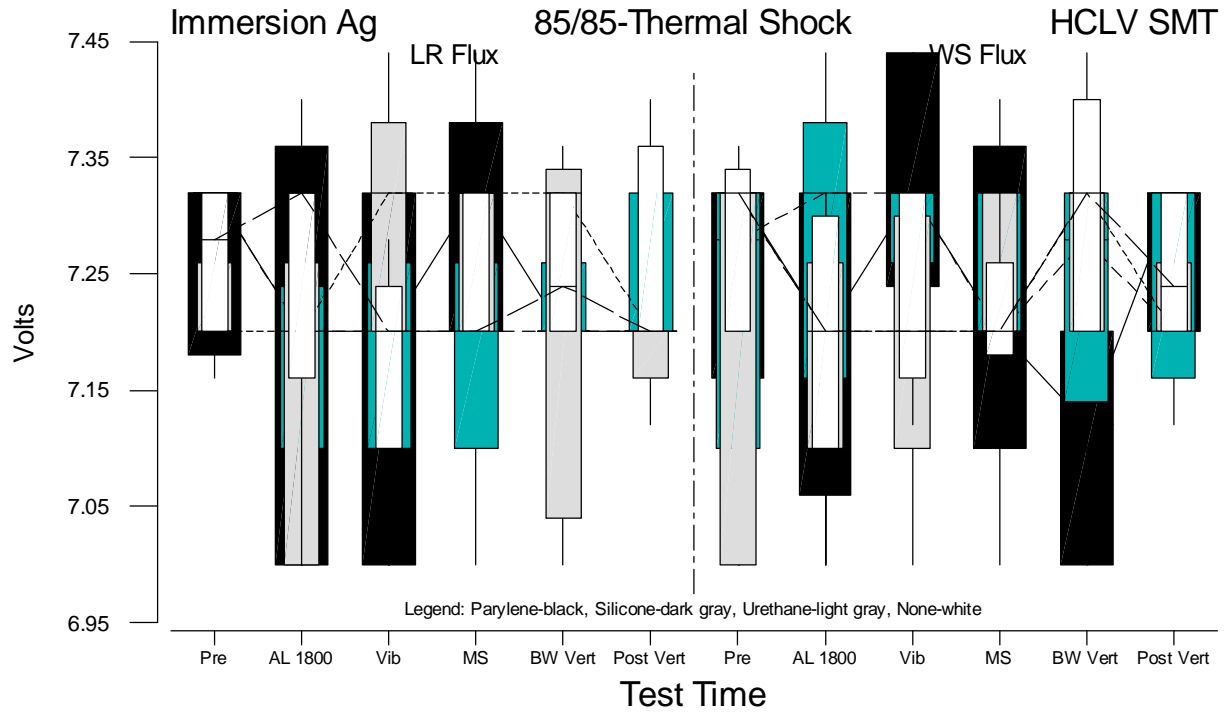


Figure J.7 Boxplots of HCLV SMT Voltage Measurements for Immersion Ag versus Test Time

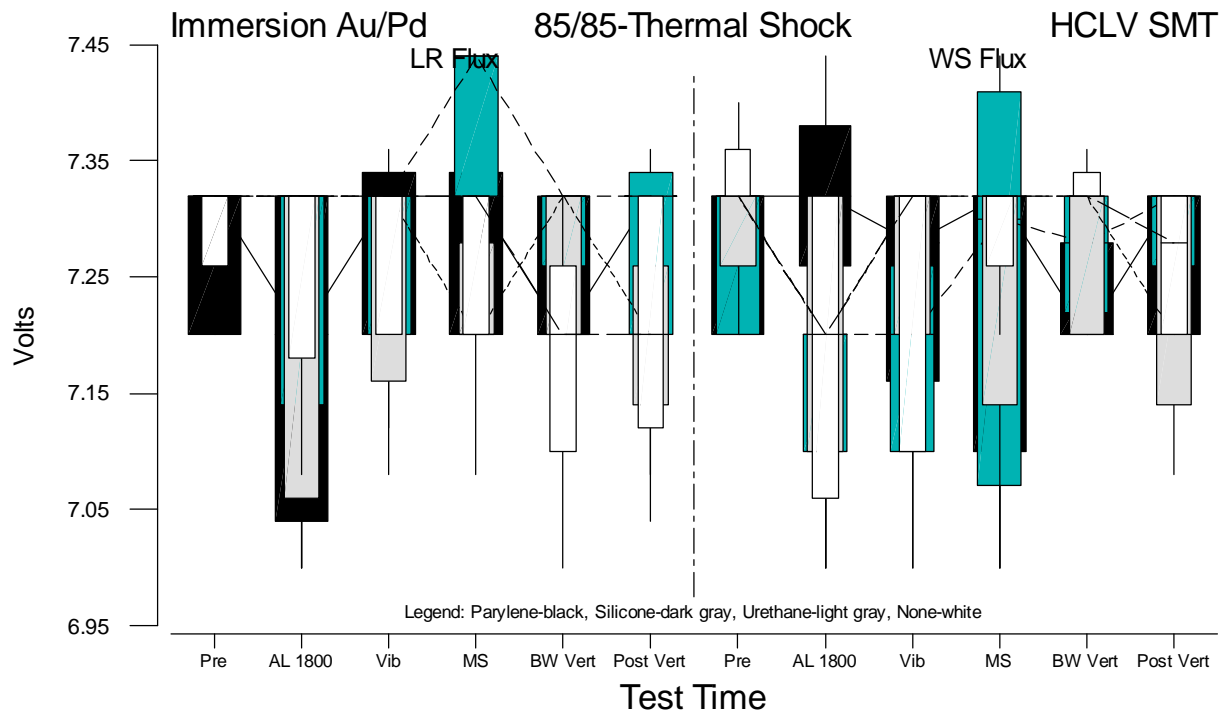


Figure J.8 Boxplots of HCLV SMT Voltage Measurements for Immersion Au/Pd versus Test Time

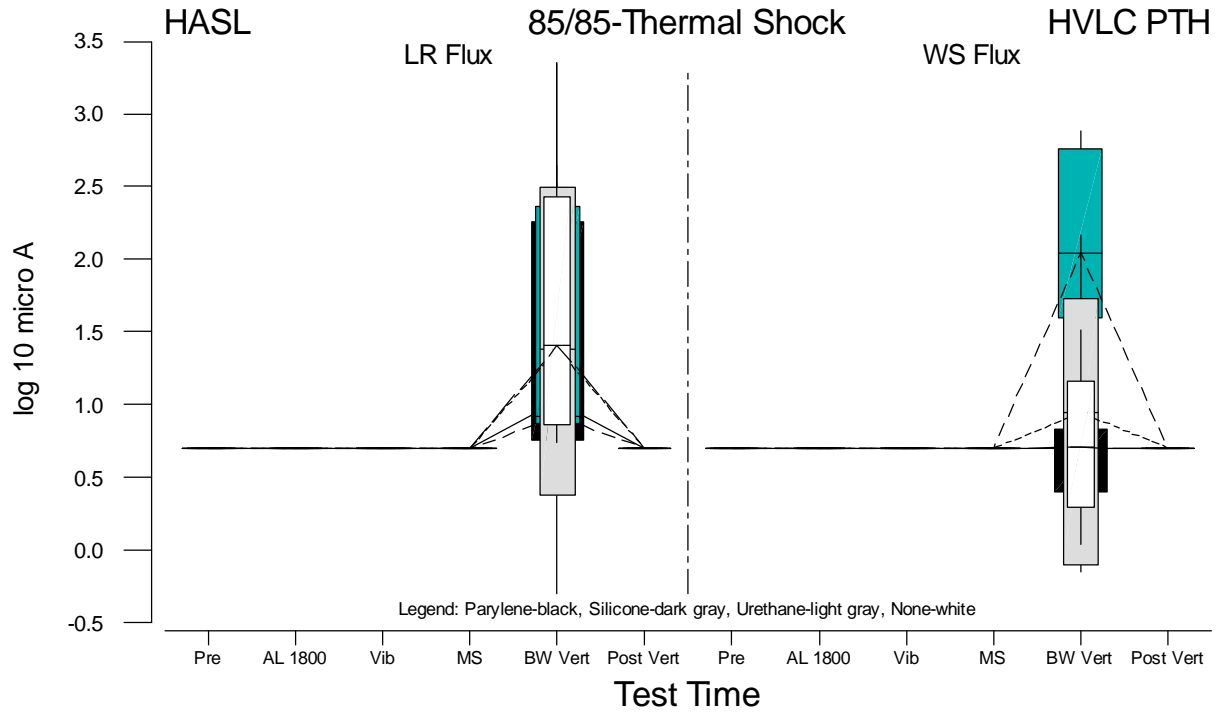


Figure J.9 Boxplots of HVLC PTH Current Measurements for HASL versus Test Time

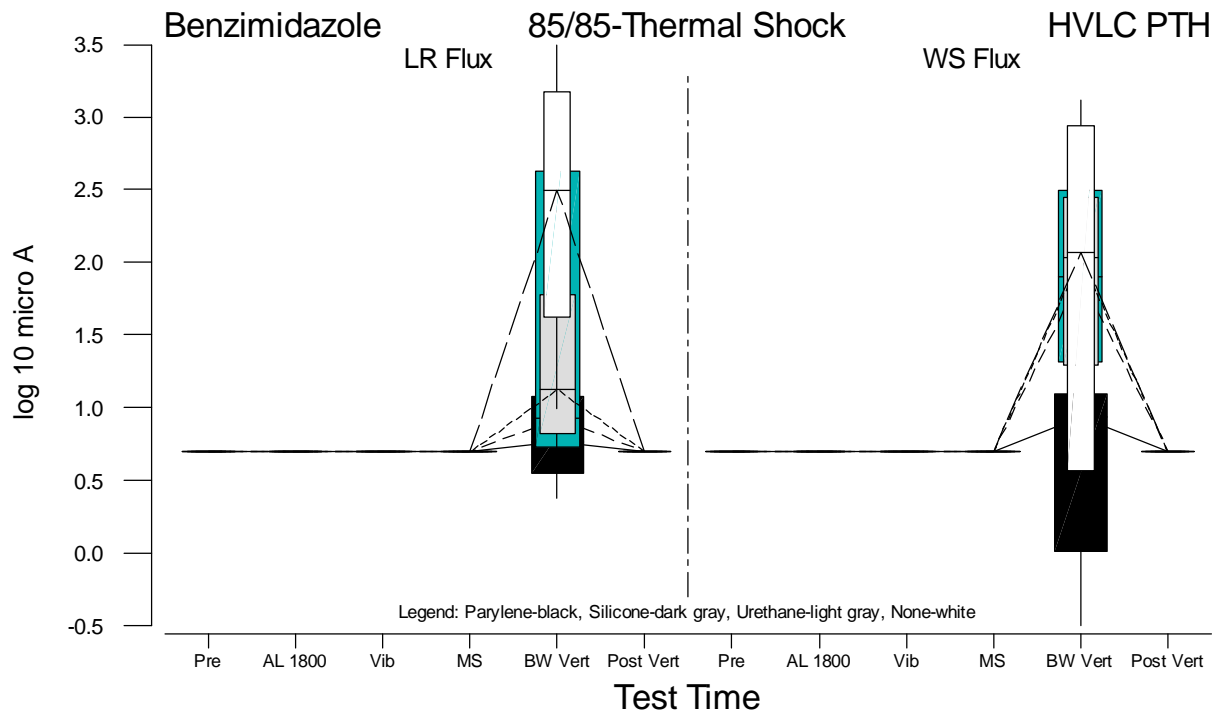


Figure J.10 Boxplots of HVLC PTH Current Measurements for Benzimidazole versus Test Time

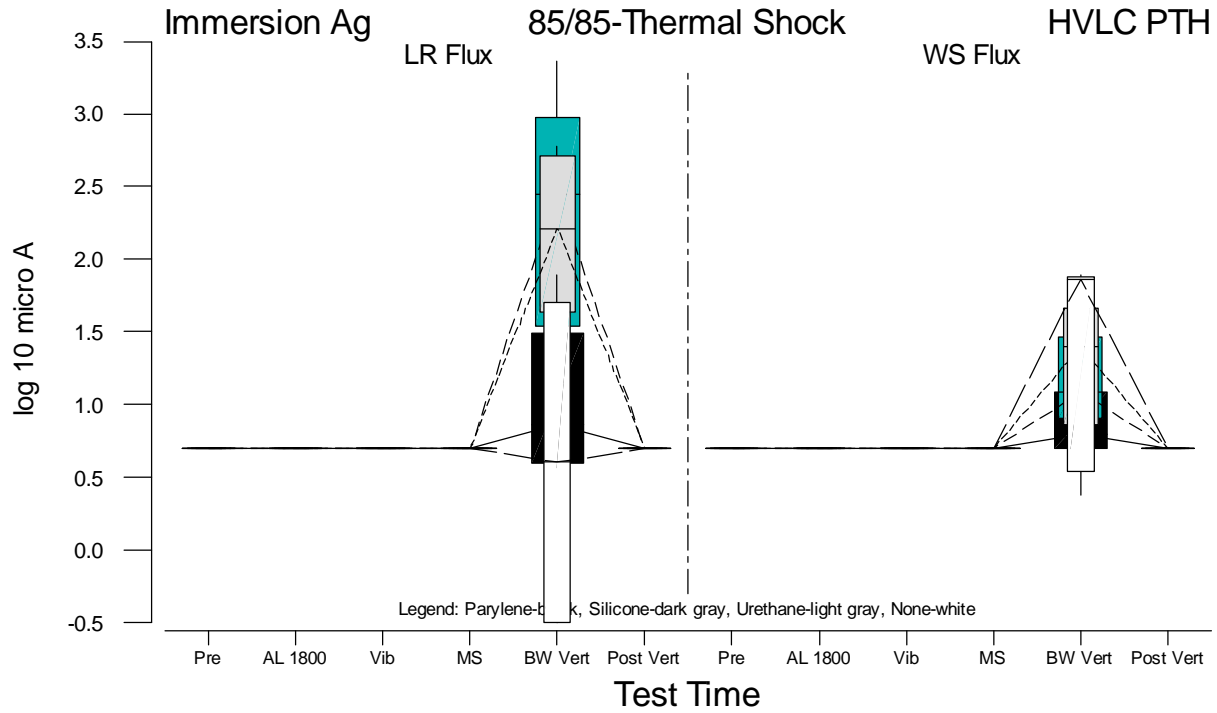


Figure J.11 Boxplots of HVLC PTH Current Measurements for Immersion Ag versus Test Time

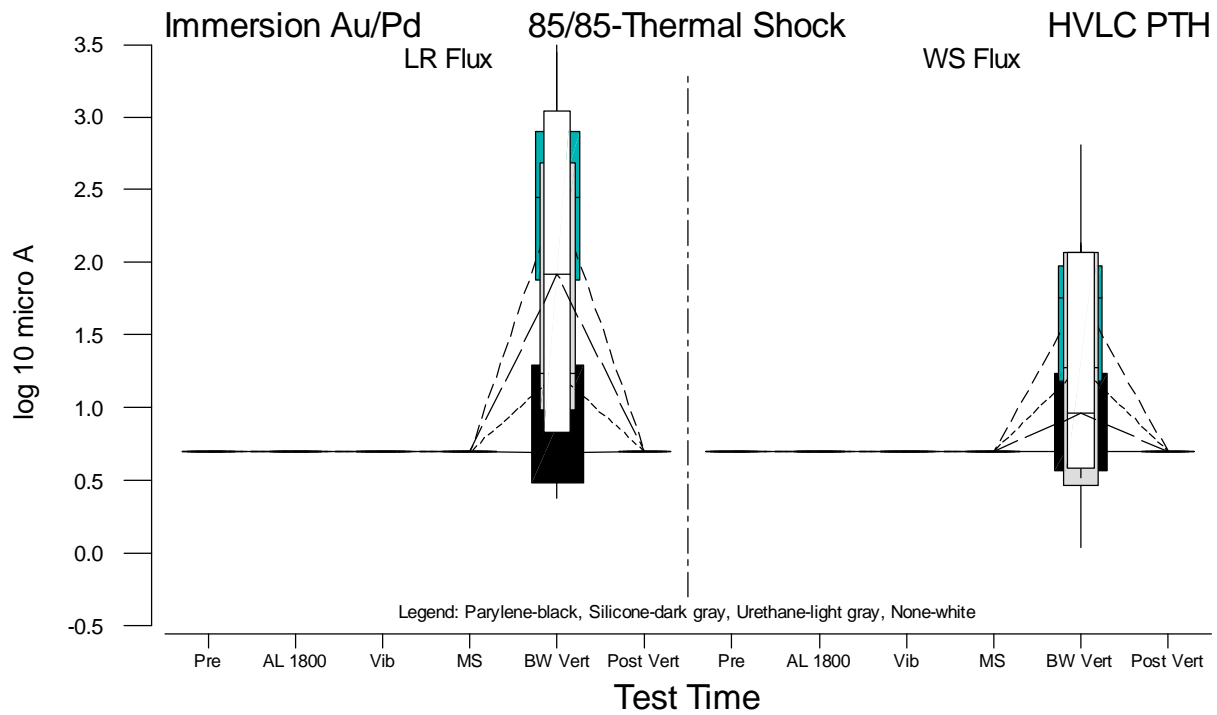


Figure J.12 Boxplots of HVLC PTH Current Measurements for Immersion Au/Pd versus Test Time

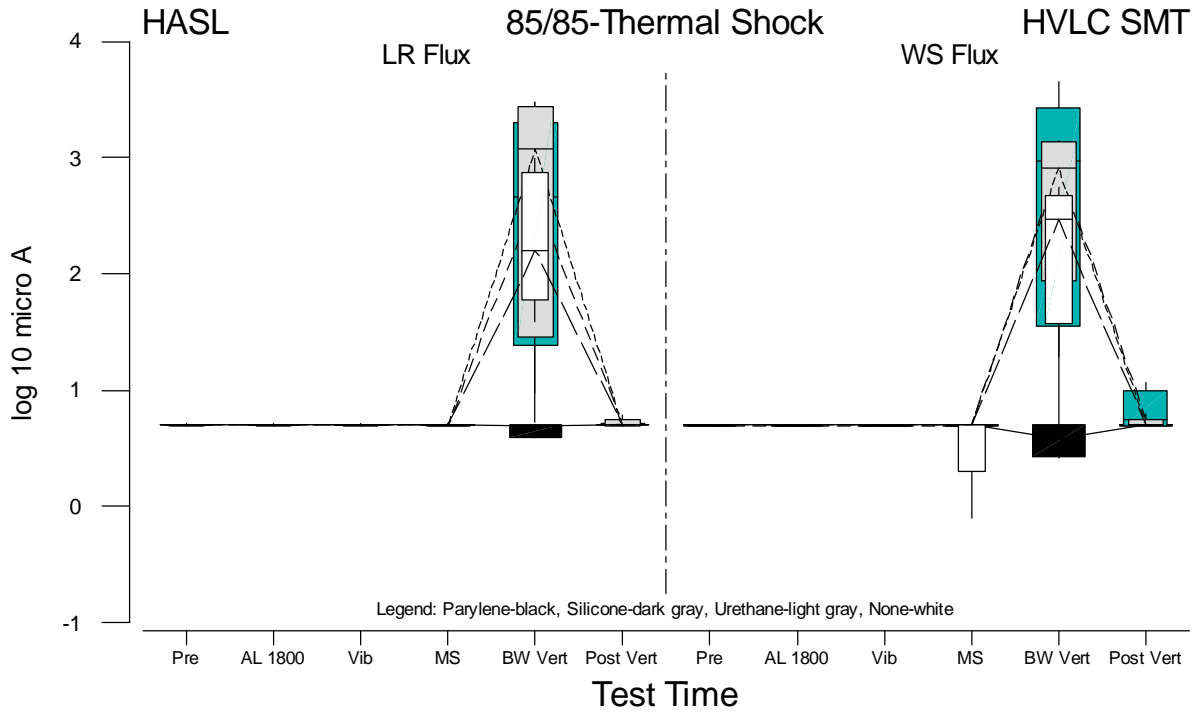


Figure J.13 Boxplots of HVLC SMT Current Measurements for HASL versus Test Time

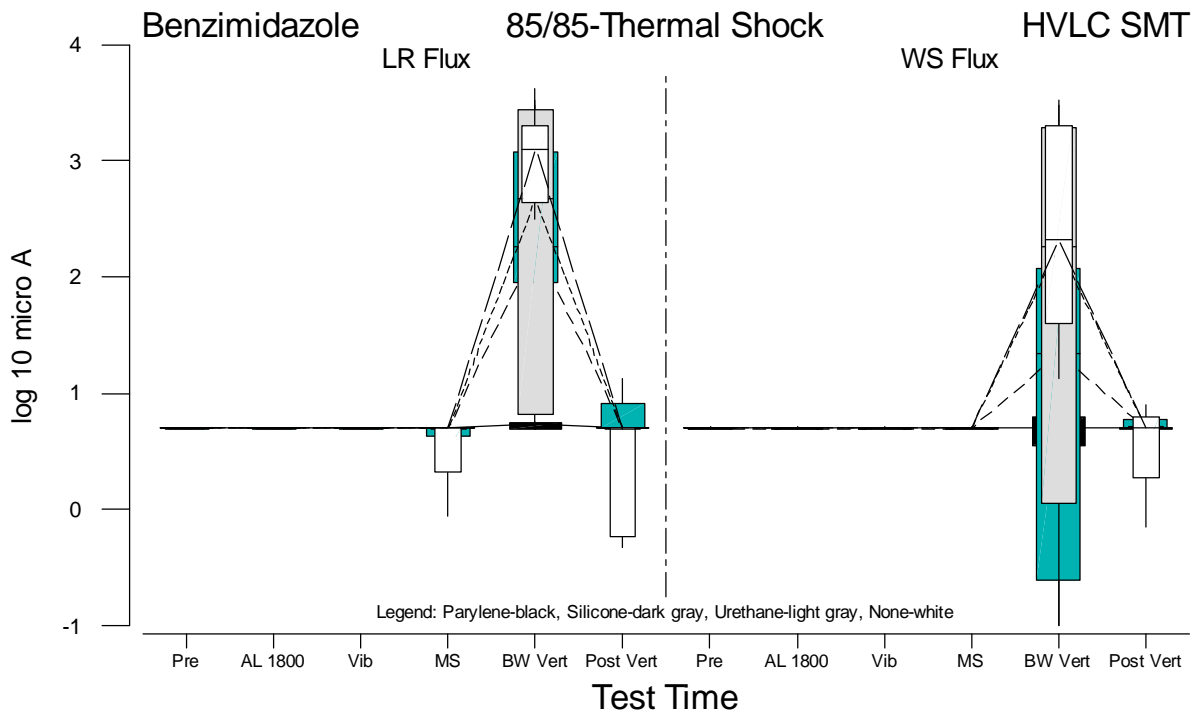


Figure J.14 Boxplots of HVLC SMT Current Measurements for Benzimidazole versus Test Time

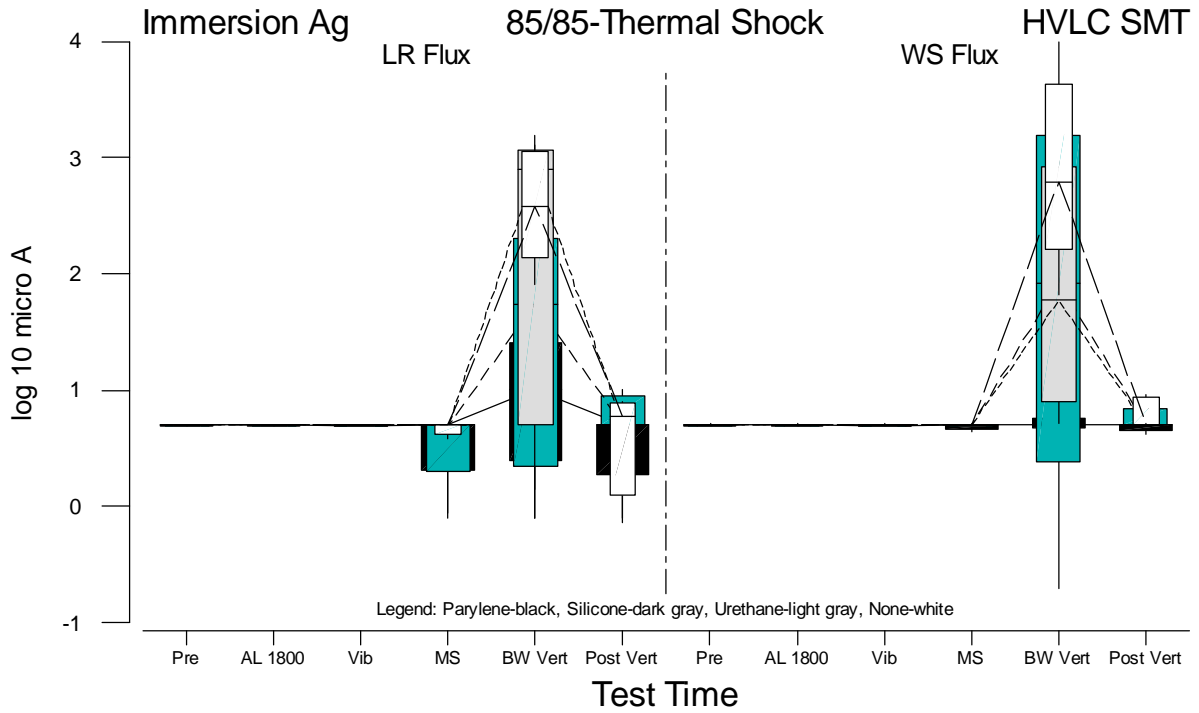


Figure J.15 Boxplots of HVLC SMT Current Voltage Measurements for Immersion Ag versus Test Time

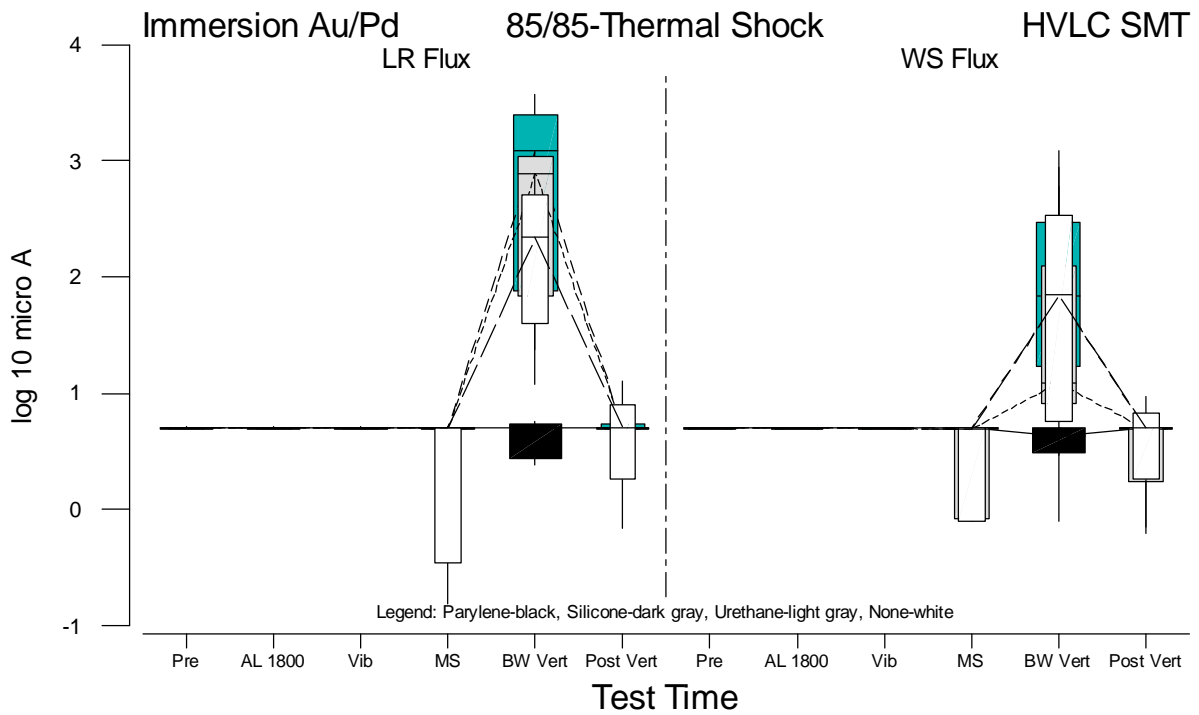


Figure J.16 Boxplots of HVLC SMT Current Measurements for Immersion Au/Pd vs. Test Time

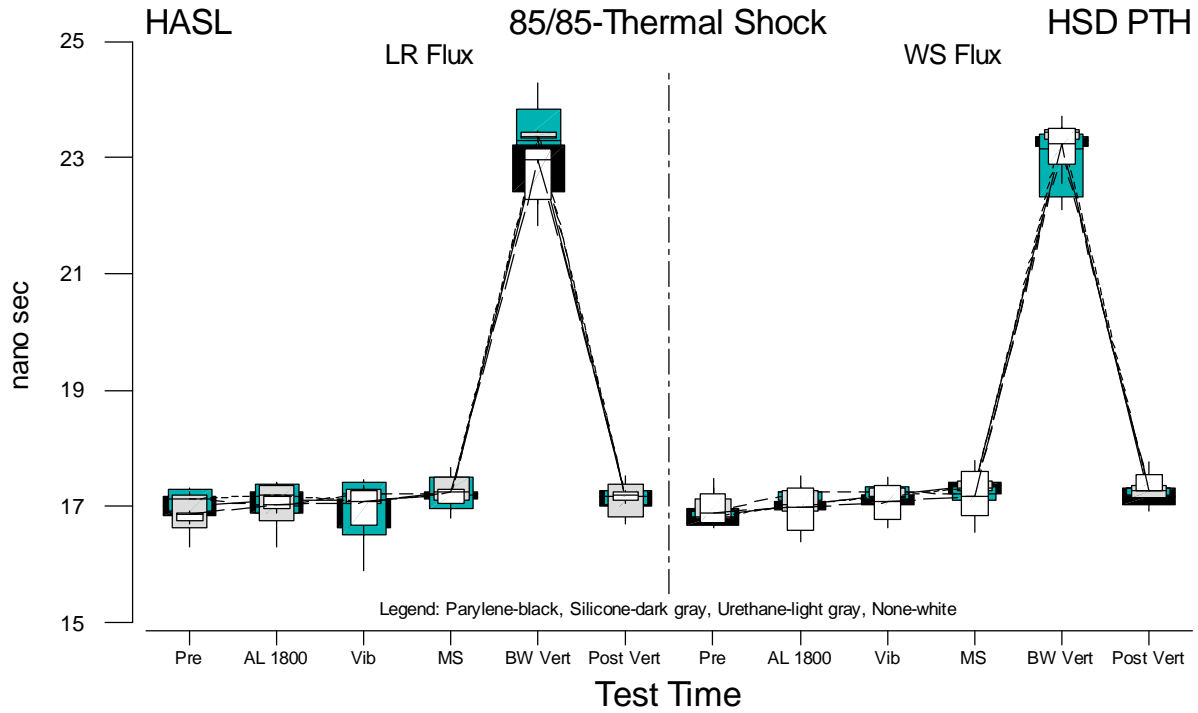


Figure J.17 Boxplots of HSD PTH Propagation Delay Measurements for HASL versus Test Time

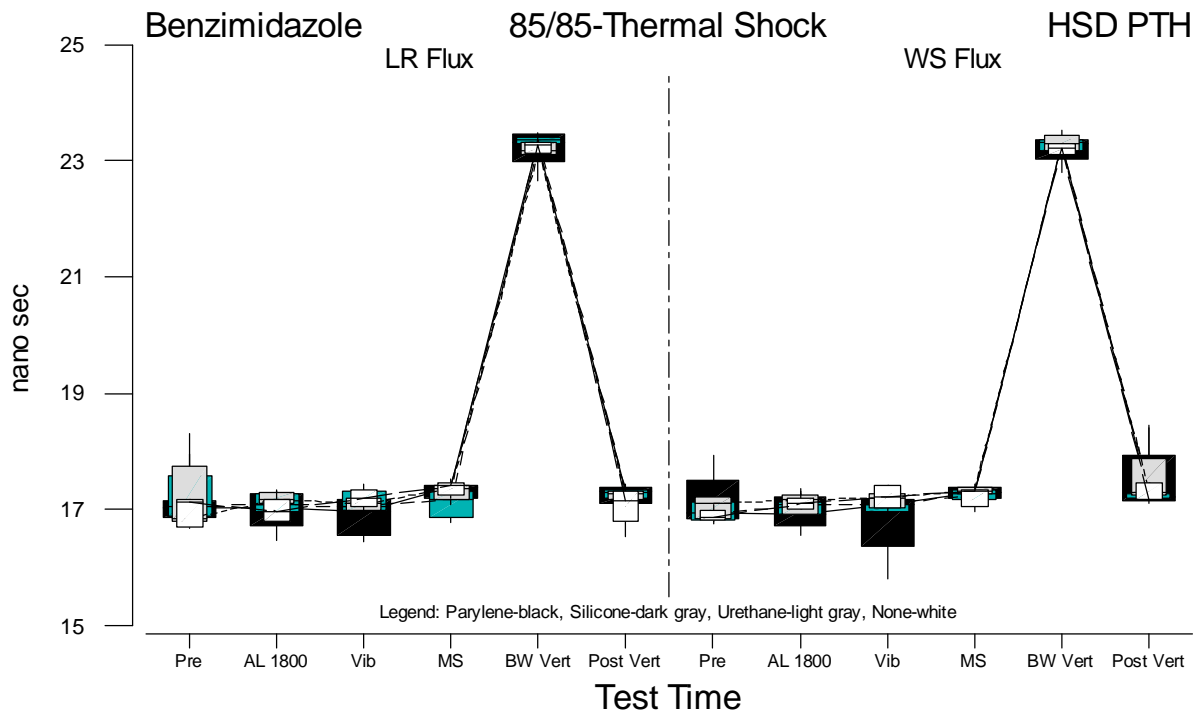


Figure J.18 Boxplots of HSD PTH Propagation Delay Measurements for Benzimidazole versus Test Time

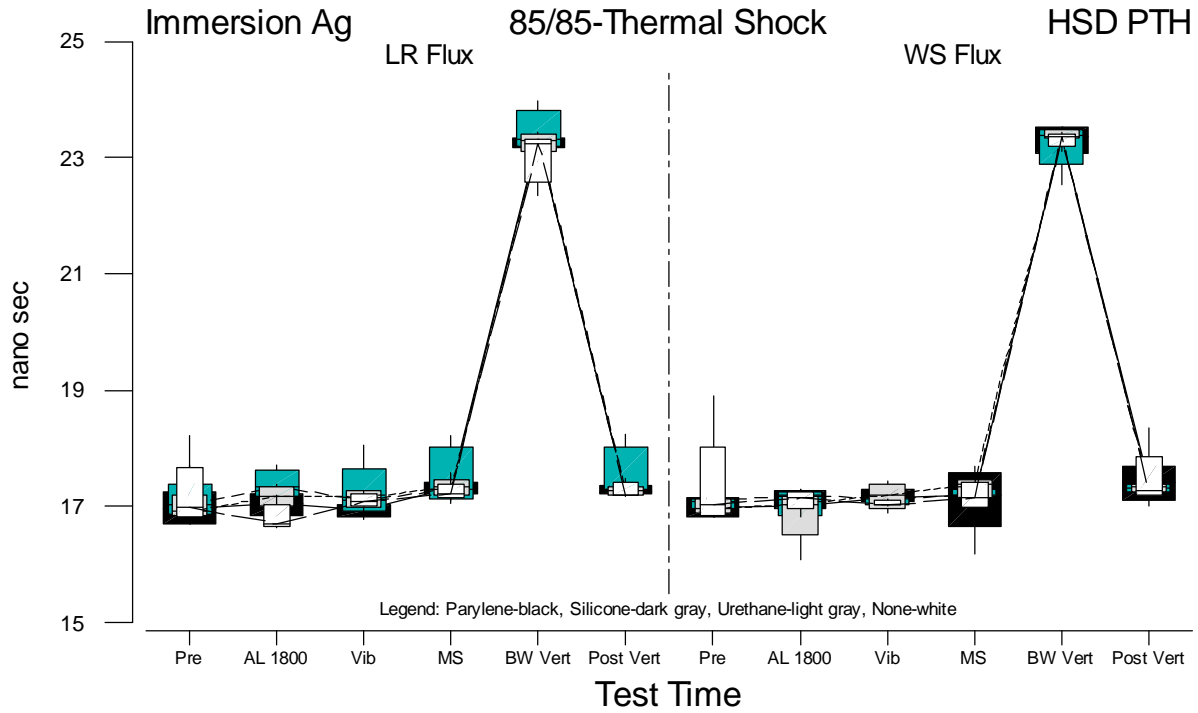


Figure J.19 Boxplots of HSD PTH Propagation Delay Measurements for Immersion Ag versus Test Time

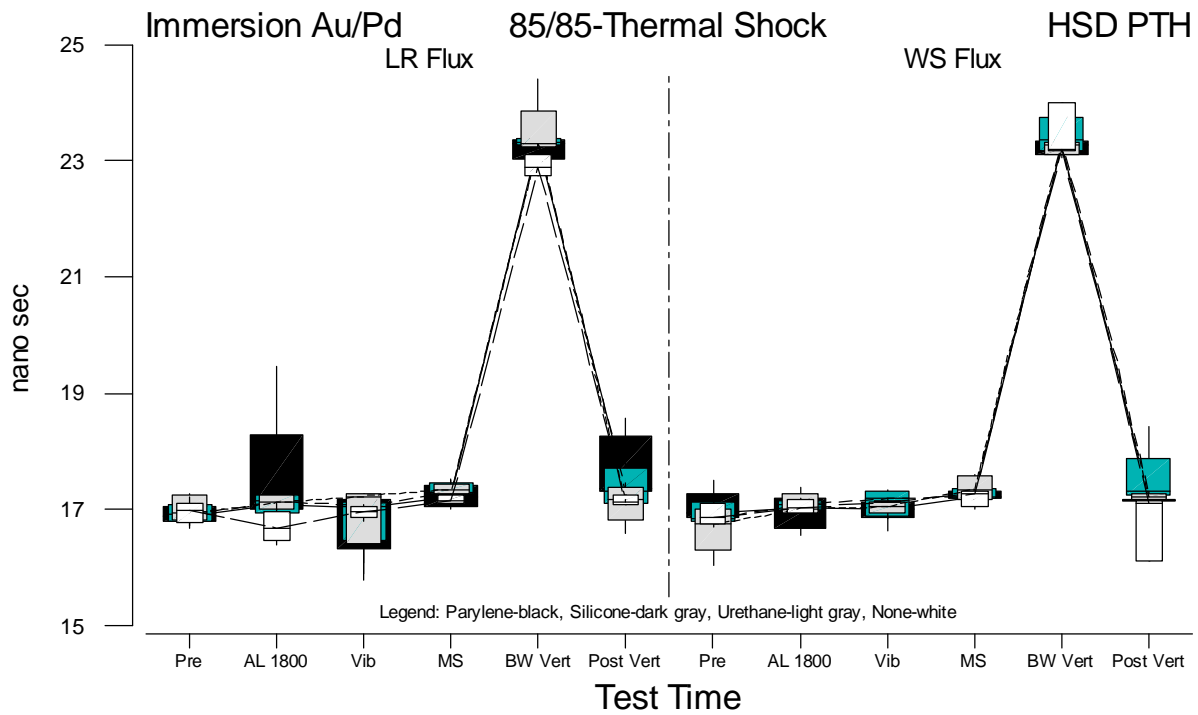


Figure J.20 Boxplots of HSD PTH Propagation Delay Measurements for Immersion Au/Pd vs. Test Time

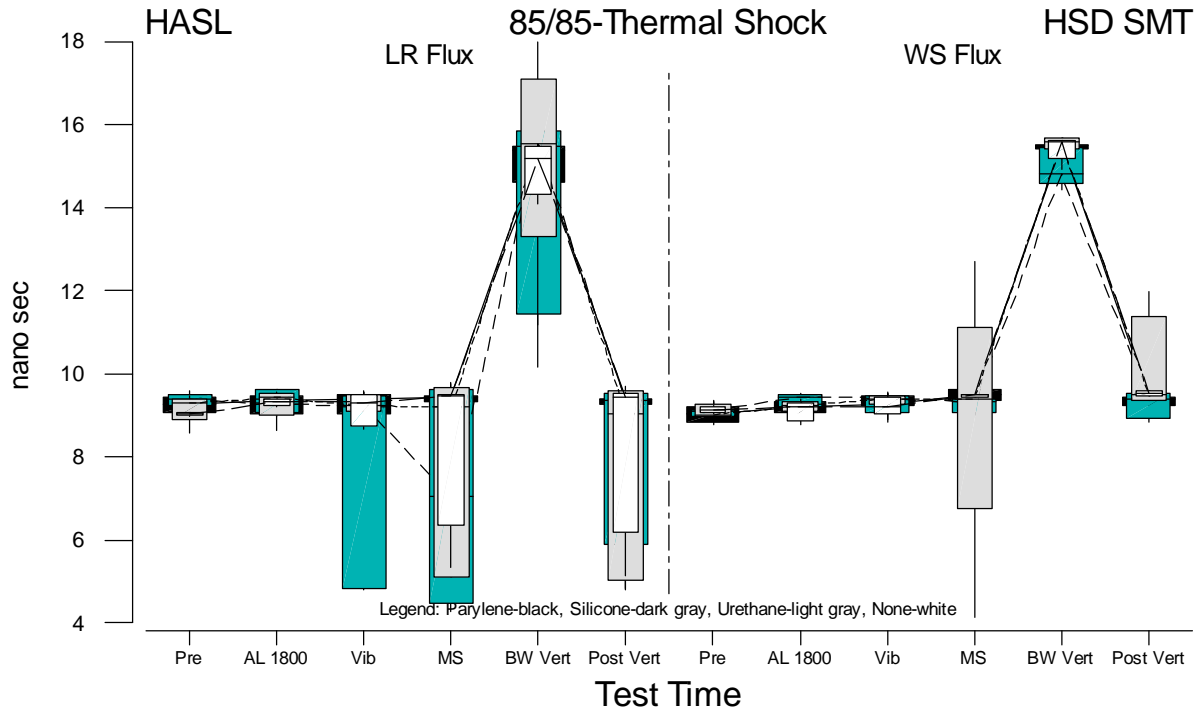


Figure J.21 Boxplots of HSD SMT Propagation Delay Measurements for HASL versus Test Time

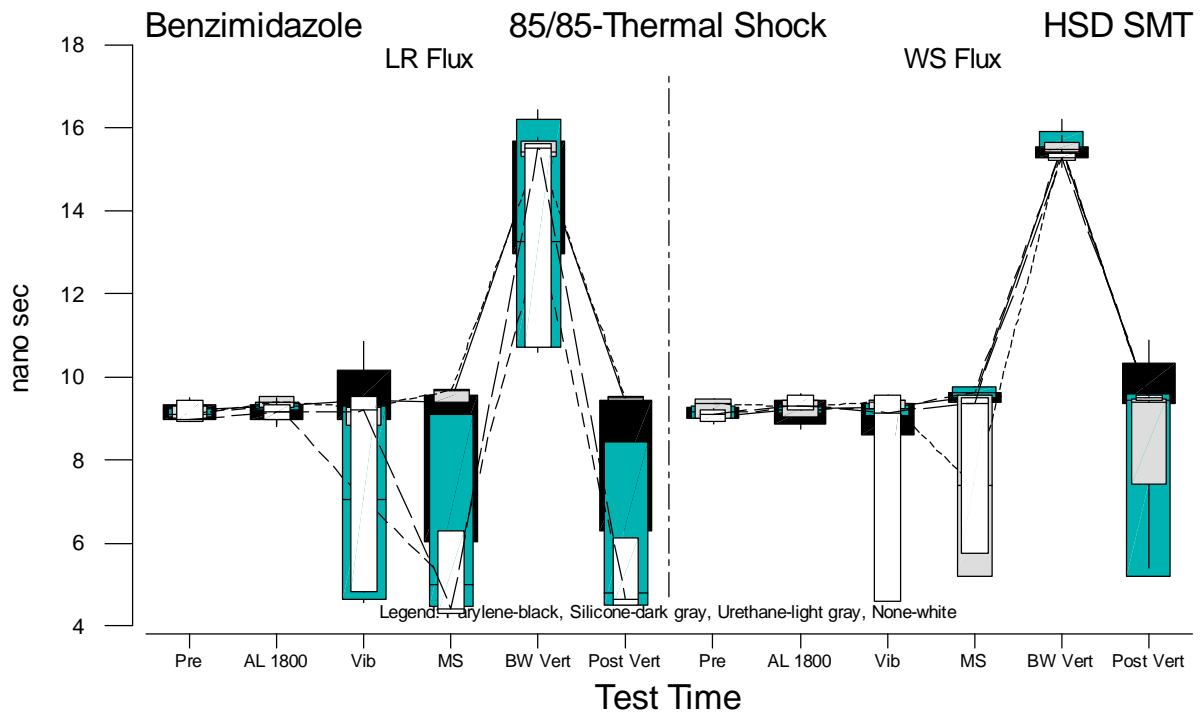


Figure J.22 Boxplots of HSD SMT Propagation Delay Measurements for Benzimidazole versus Test Time

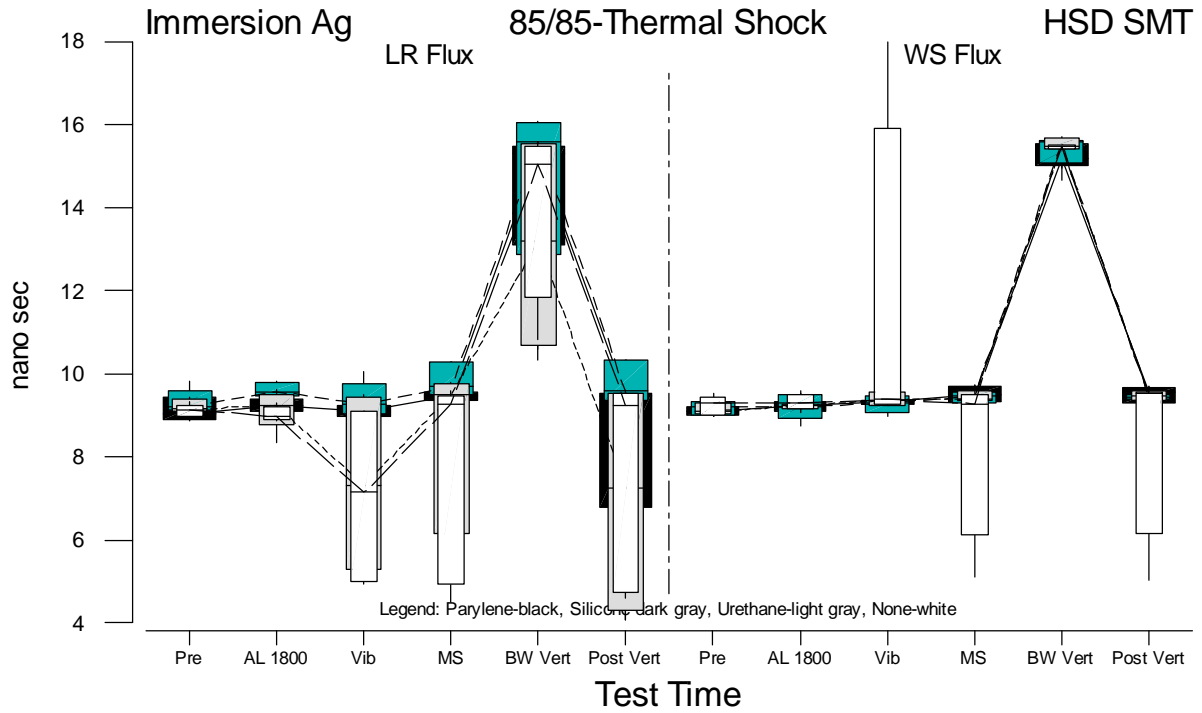


Figure J.23 Boxplots of HSD SMT Propagation Delay Measurements for Immersion Ag versus Test Time

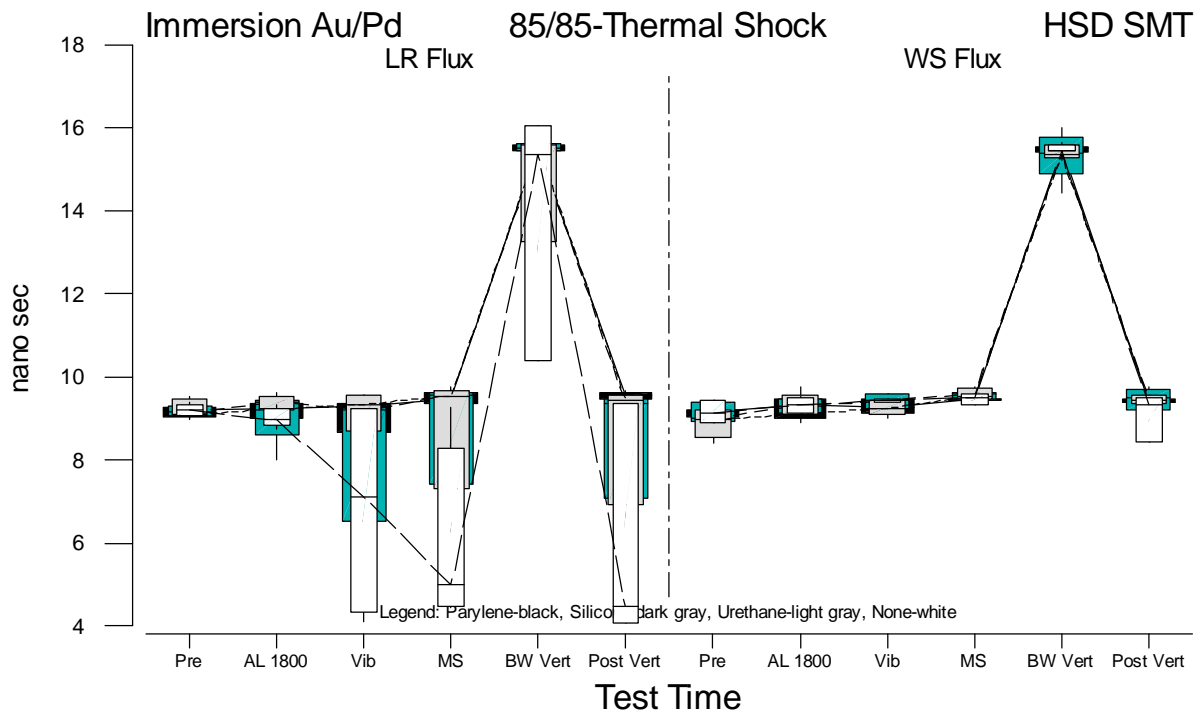


Figure J.24 Boxplots of HSD SMT Propagation Delay Measurements for Immersion Au/Pd vs. Test Time

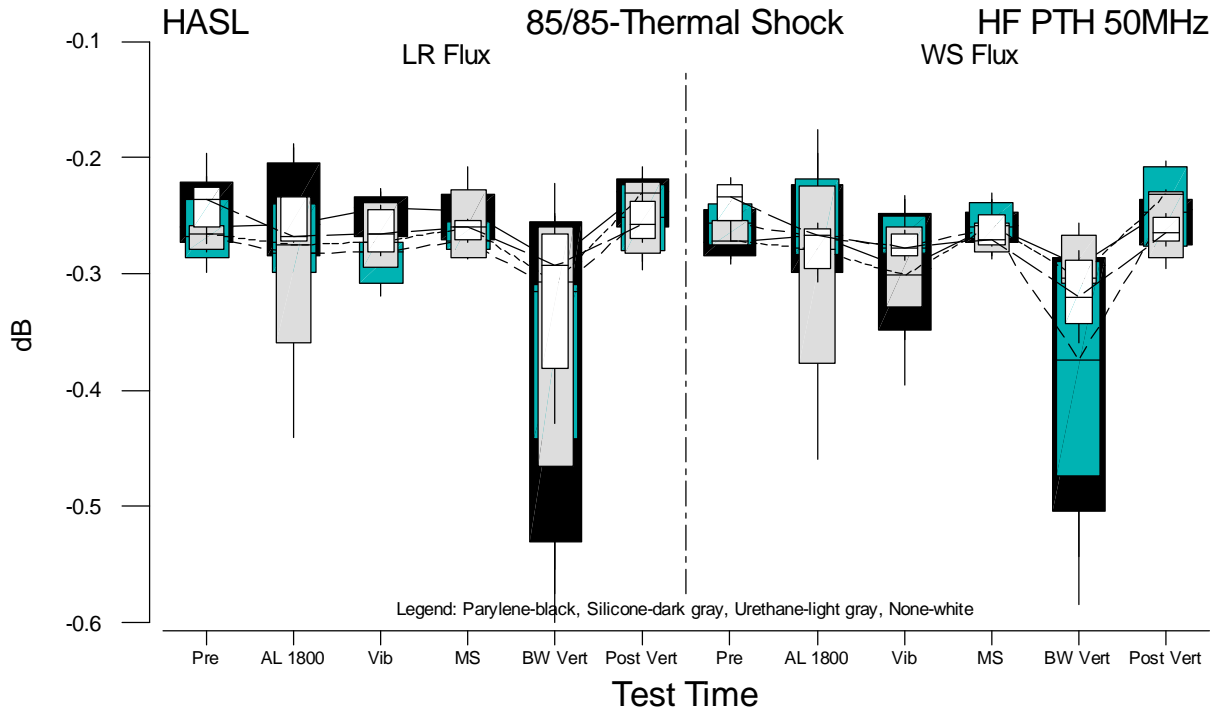


Figure J.25 Boxplots of HF PTH 50MHz Measurements for HASL versus Test Time

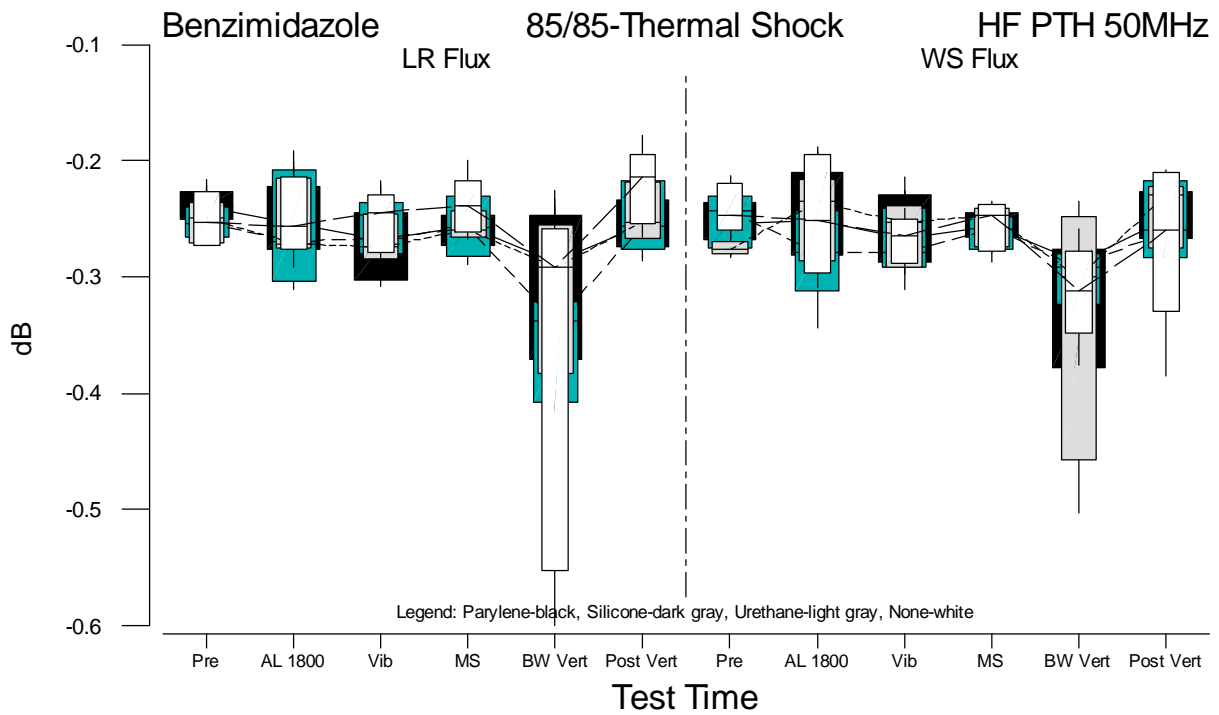


Figure J.26 Boxplots of HF PTH 50MHz Measurements for Benzimidazole versus Test Time

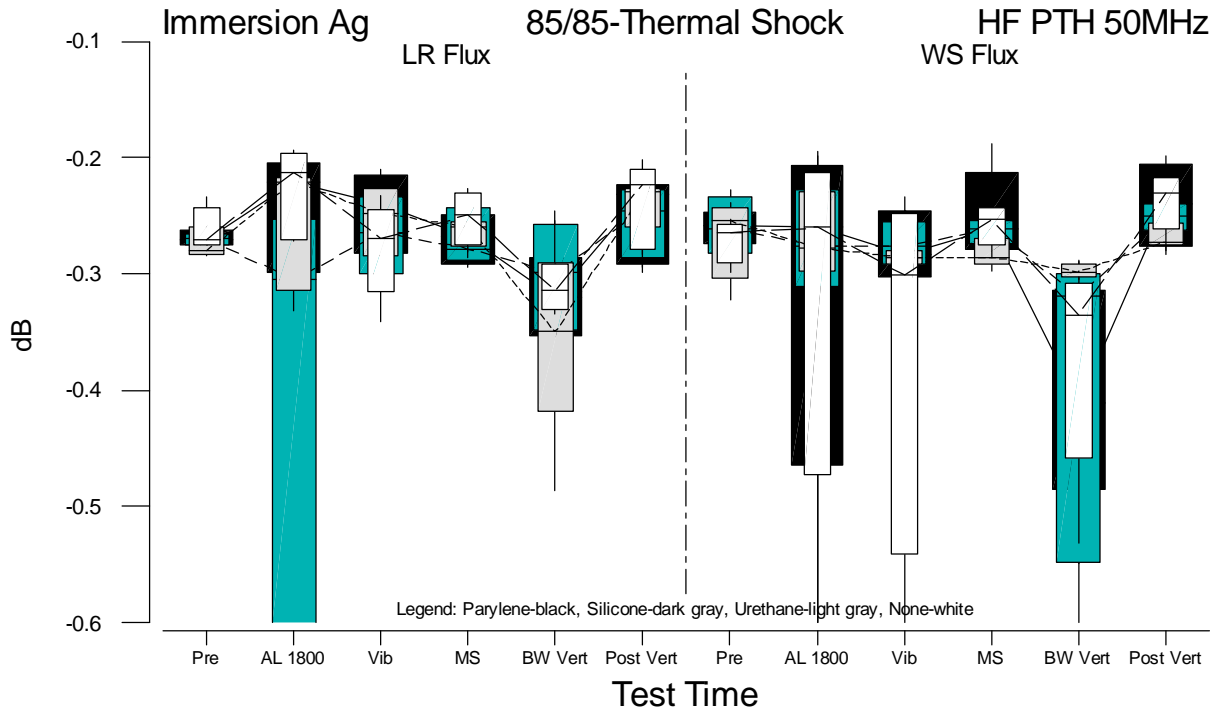


Figure J.27 Boxplots of HF PTH 50MHz Measurements for Immersion Ag versus Test Time

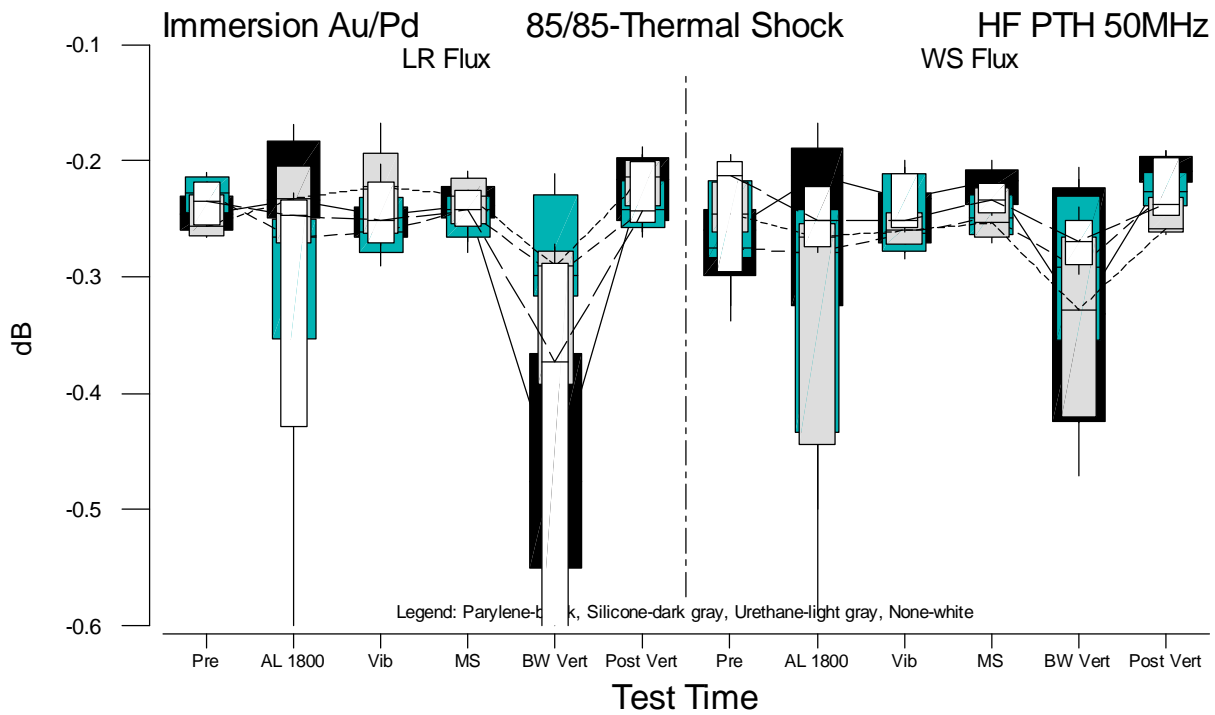


Figure J.28 Boxplots of HF PTH 50MHz Measurements for Immersion Au/Pd versus Test Time

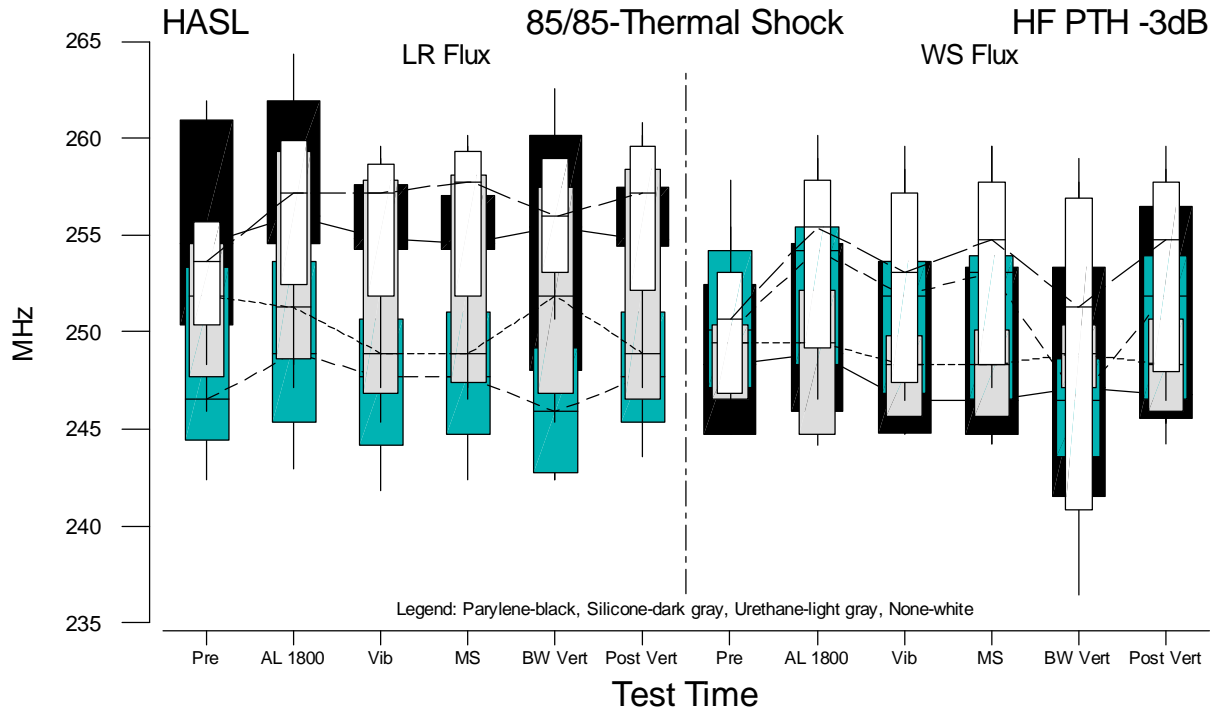


Figure J.29 Boxplots of HF PTH f(-3dB) Measurements for HASL versus Test Time

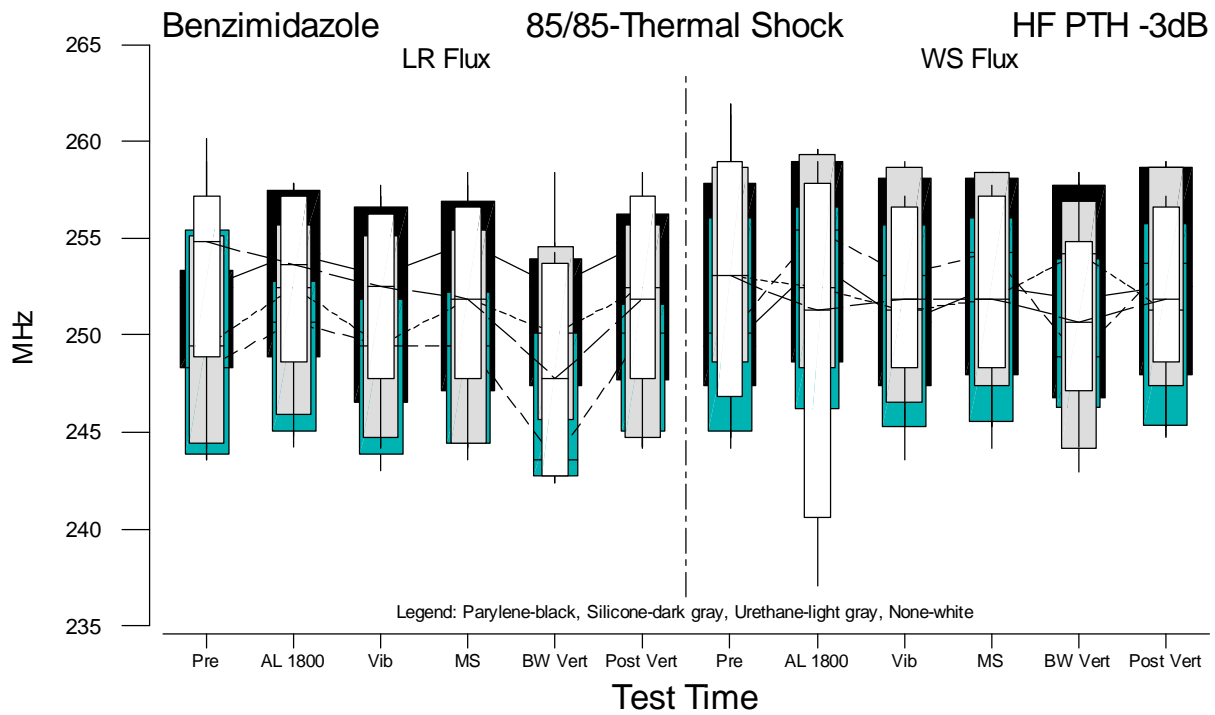


Figure J.30 Boxplots of HF PTH f(-3dB) Measurements for Benzimidazole versus Test Time

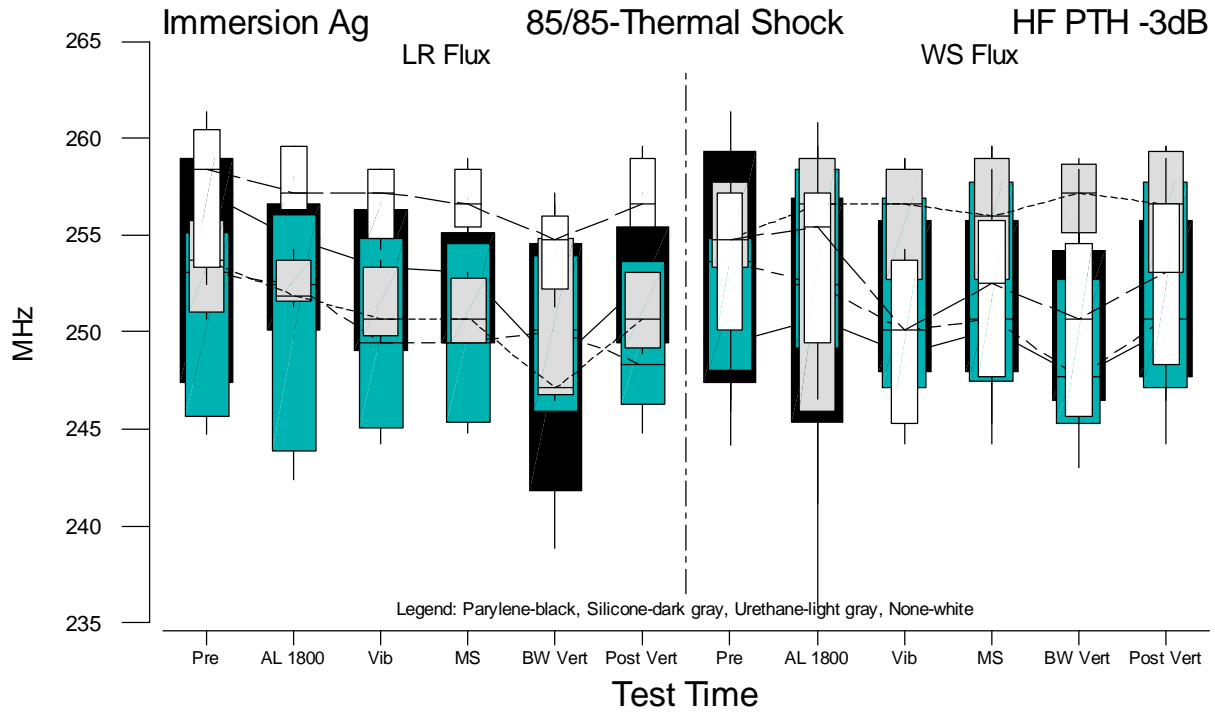


Figure J.31 Boxplots of HF PTH f(-3dB) Measurements for Immersion Ag versus Test Time

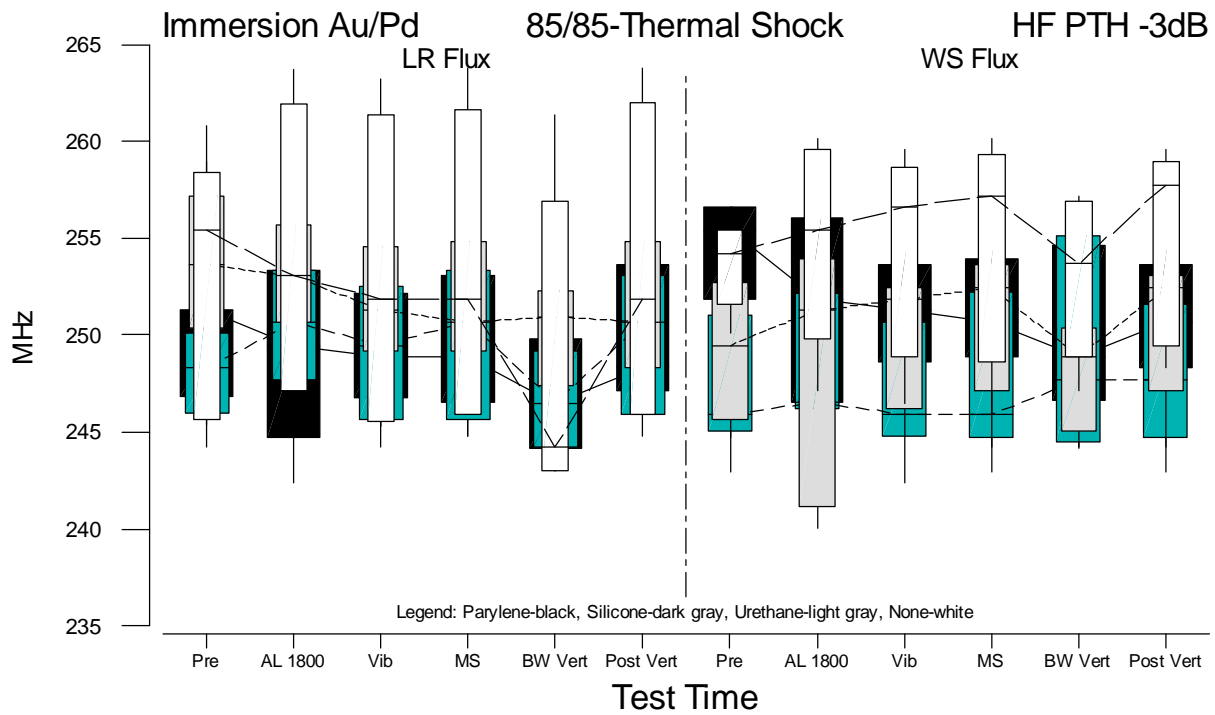


Figure J.32 Boxplots of HF PTH f(-3dB) Measurements for Immersion Au/Pd versus Test Time

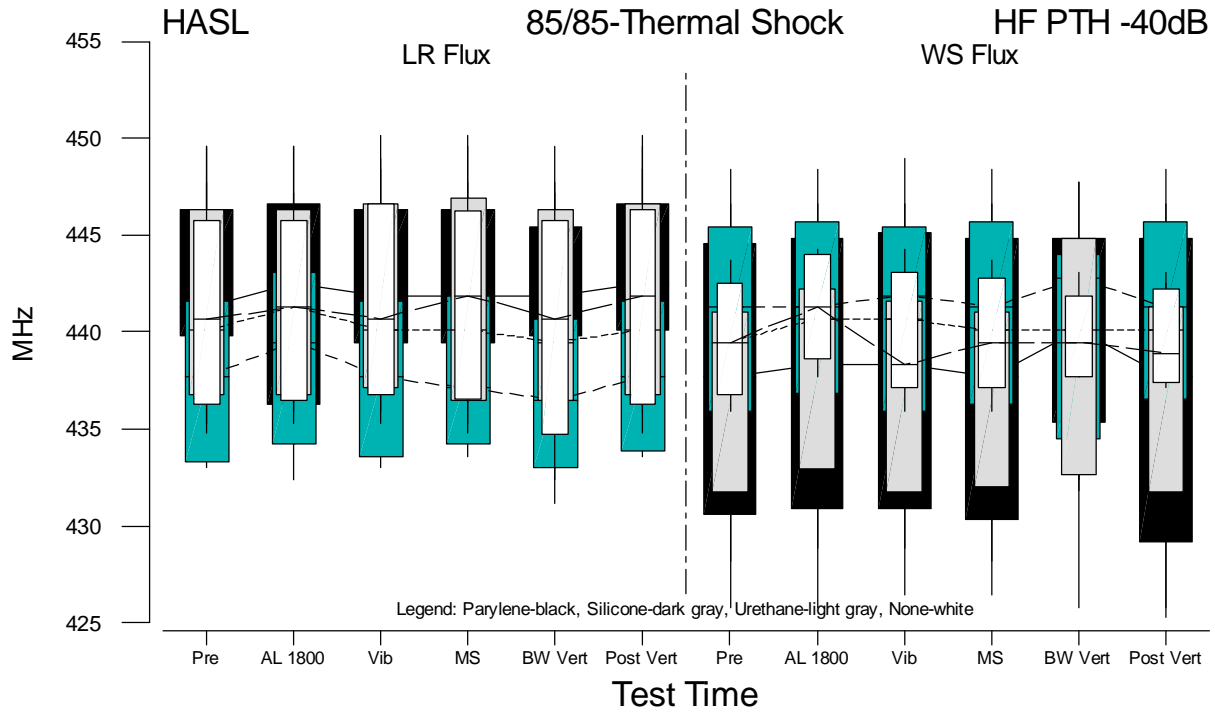


Figure J.33 Boxplots of HF PTH f(-40B) Measurements for HASL versus Test Time

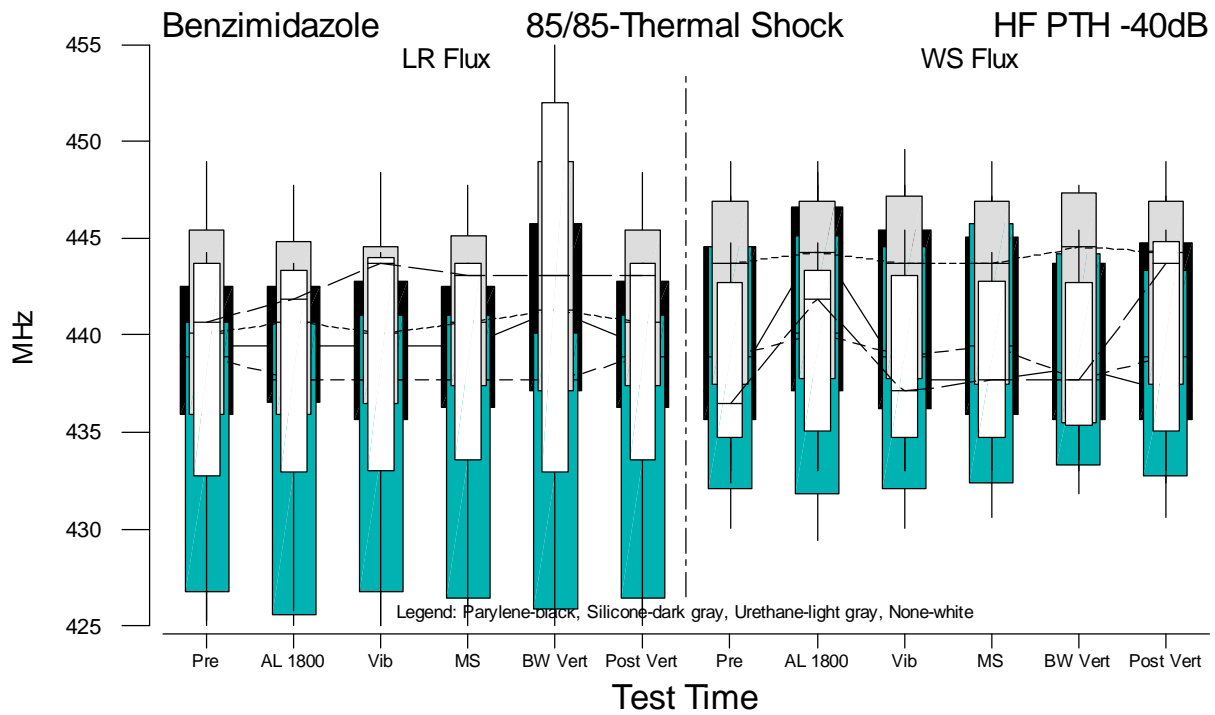


Figure J.34 Boxplots of HF PTH f(-40B) Measurements for Benzimidazole versus Test Time

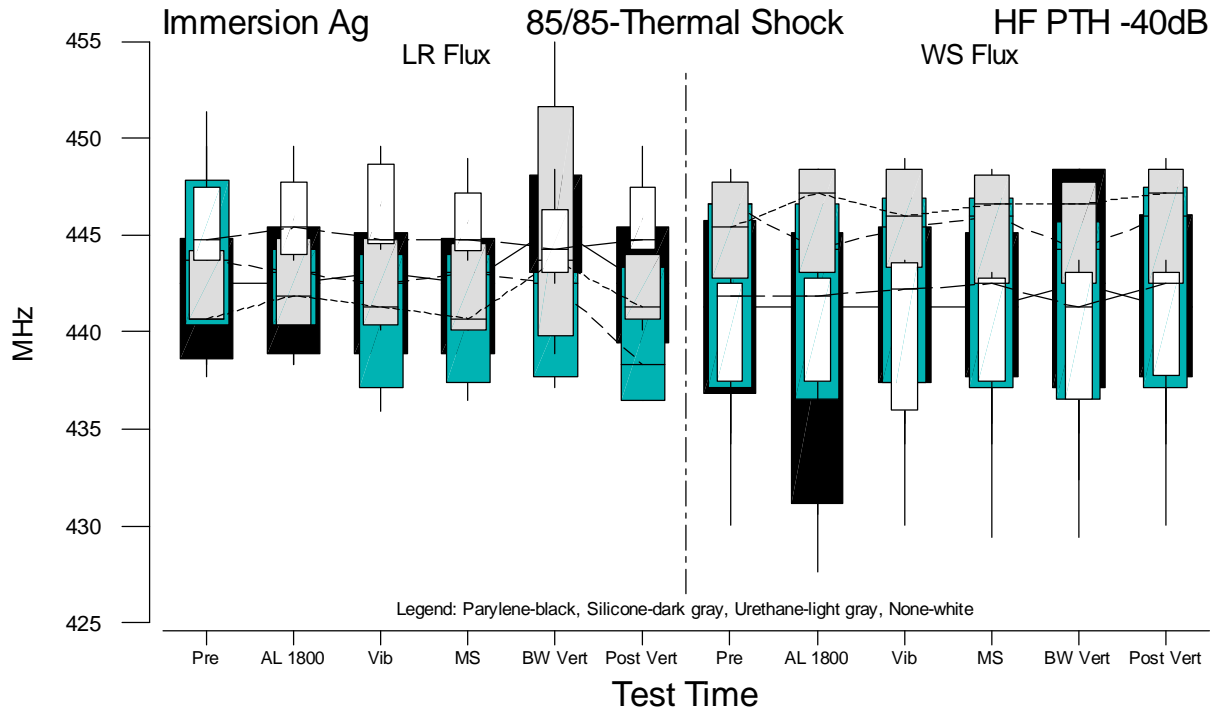


Figure J.35 Boxplots of HF PTH f(-40B) Measurements for Immersion Ag versus Test Time

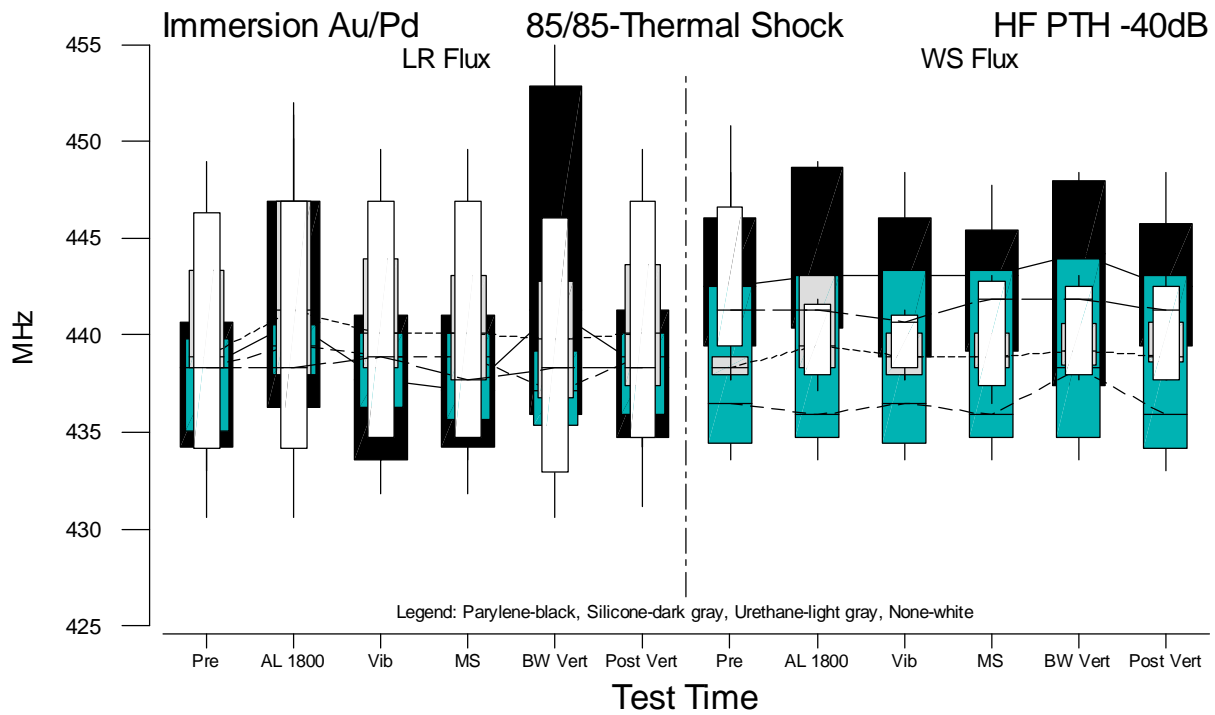


Figure J.36 Boxplots of HF PTH f(-40B) Measurements for Immersion Au/Pd versus Test Time

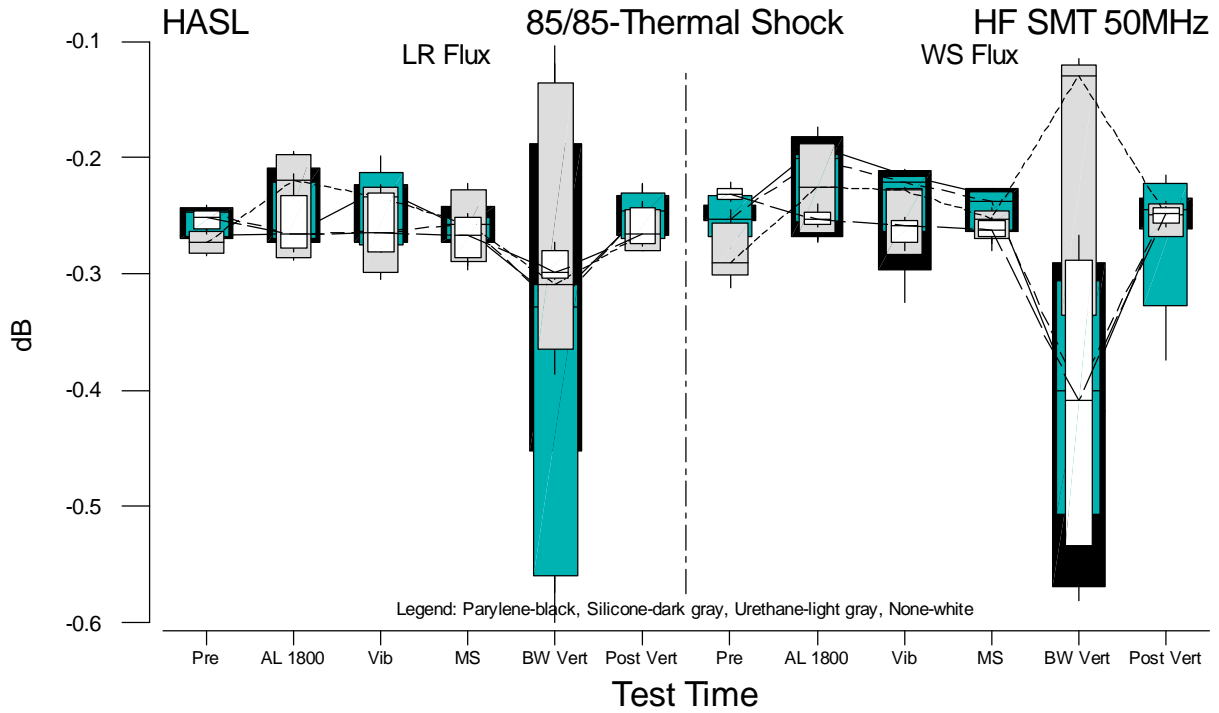


Figure J.37 Boxplots of HF SMT 50MHz Measurements for HASL versus Test Time

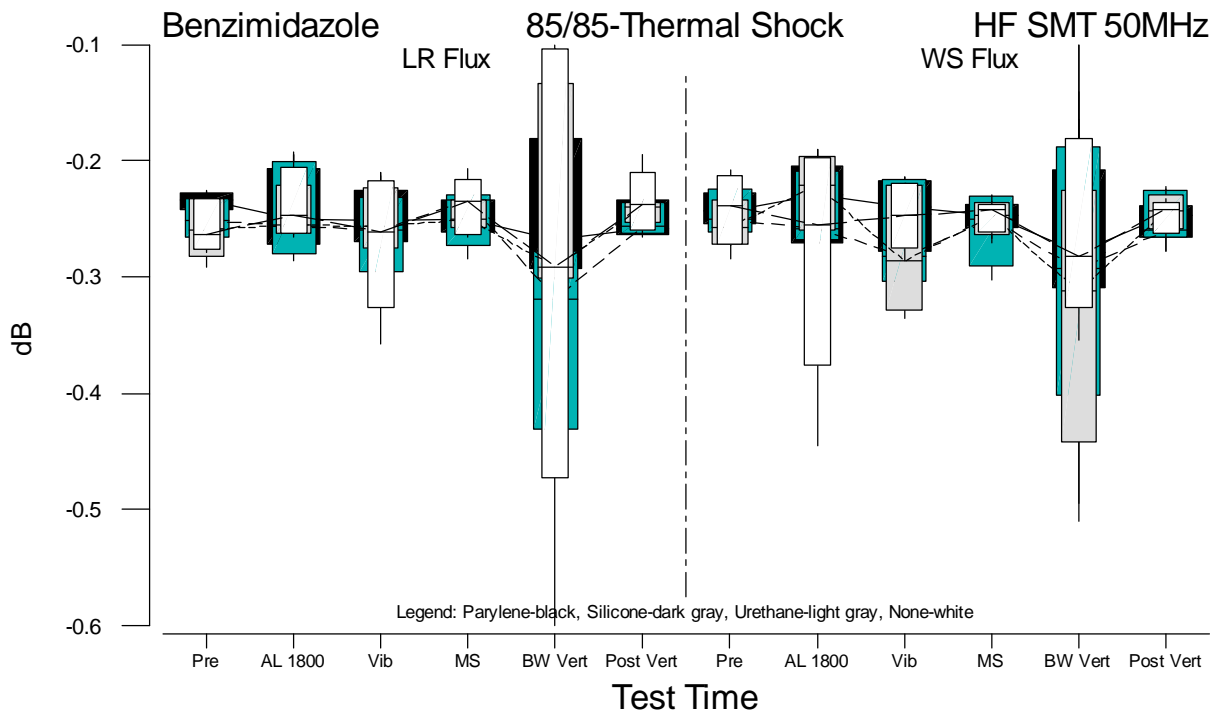


Figure J.38 Boxplots of HF SMT 50MHz Measurements for Benzimidazole versus Test Time

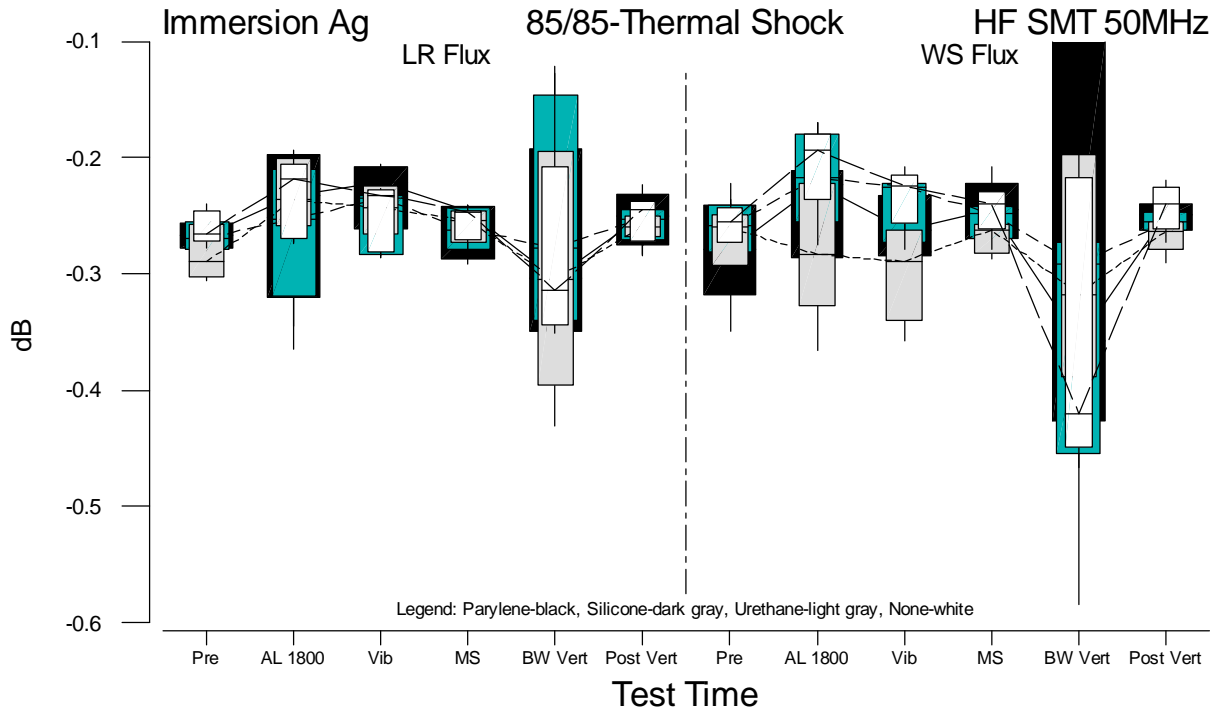


Figure J.39 Boxplots of HF SMT 50MHz Measurements for Immersion Ag versus Test Time

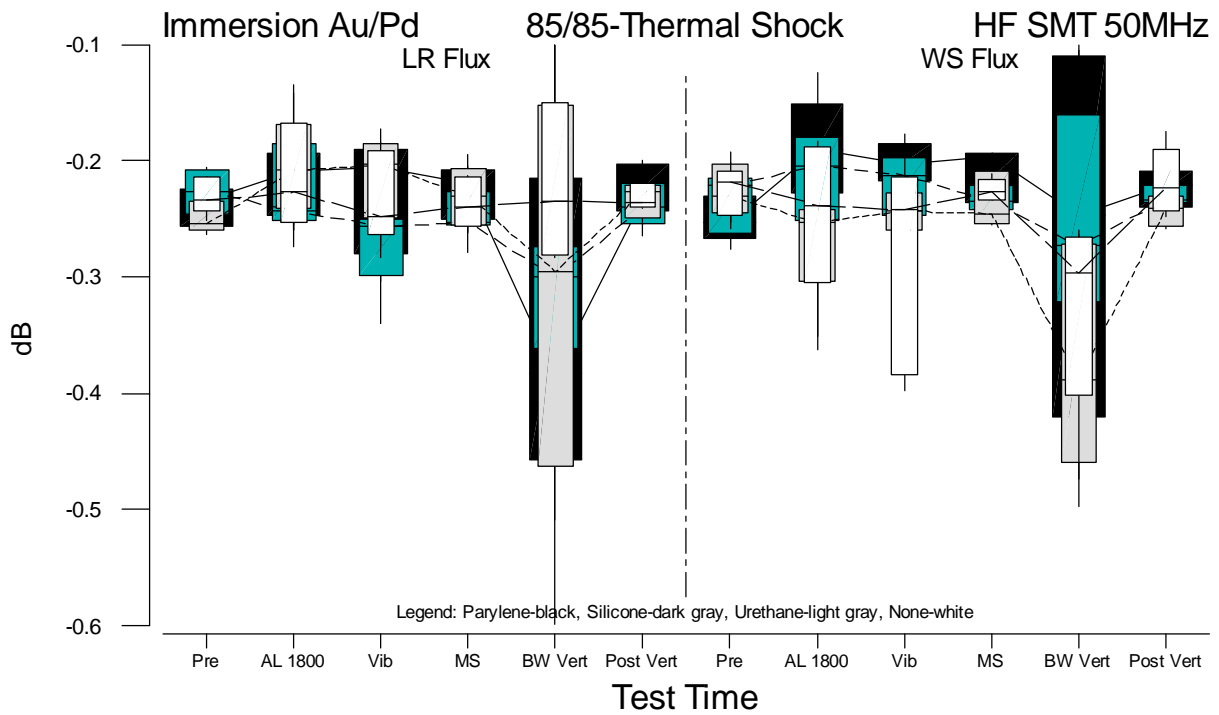


Figure J.40 Boxplots of HF SMT 50MHz Measurements for Immersion Au/Pd versus Test Time

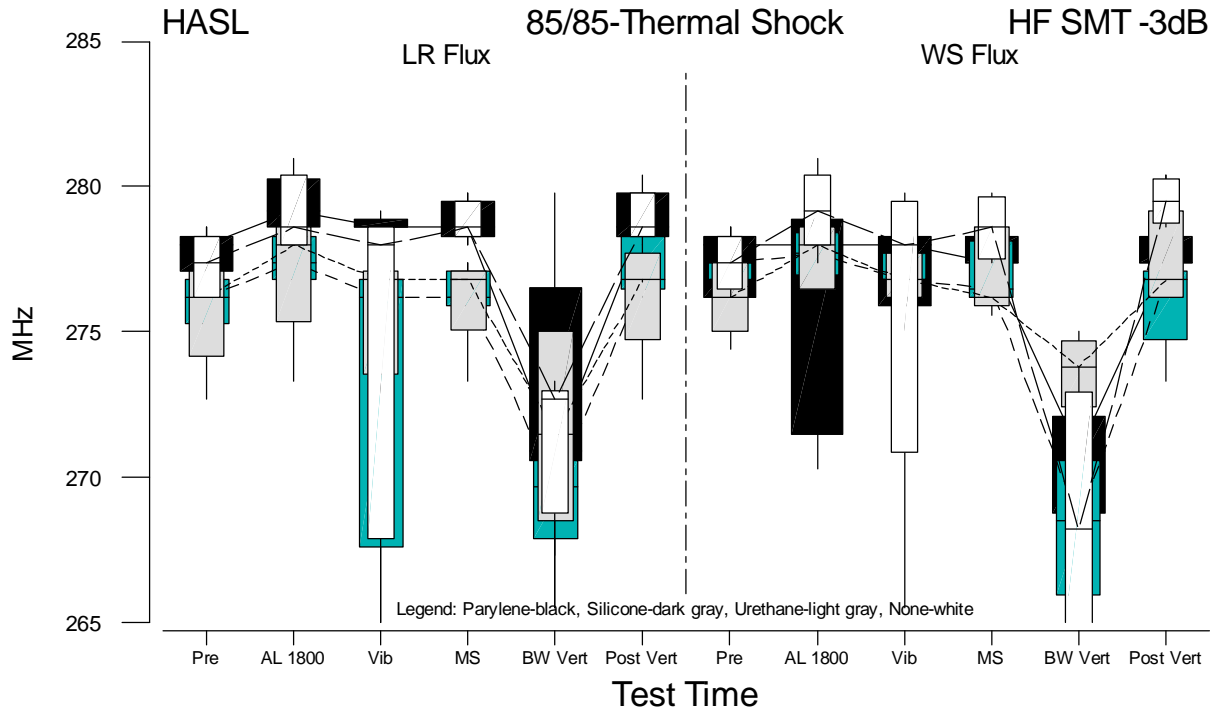


Figure J.41 Boxplots of HF SMT f(-3dB) Measurements for HASL versus Test Time

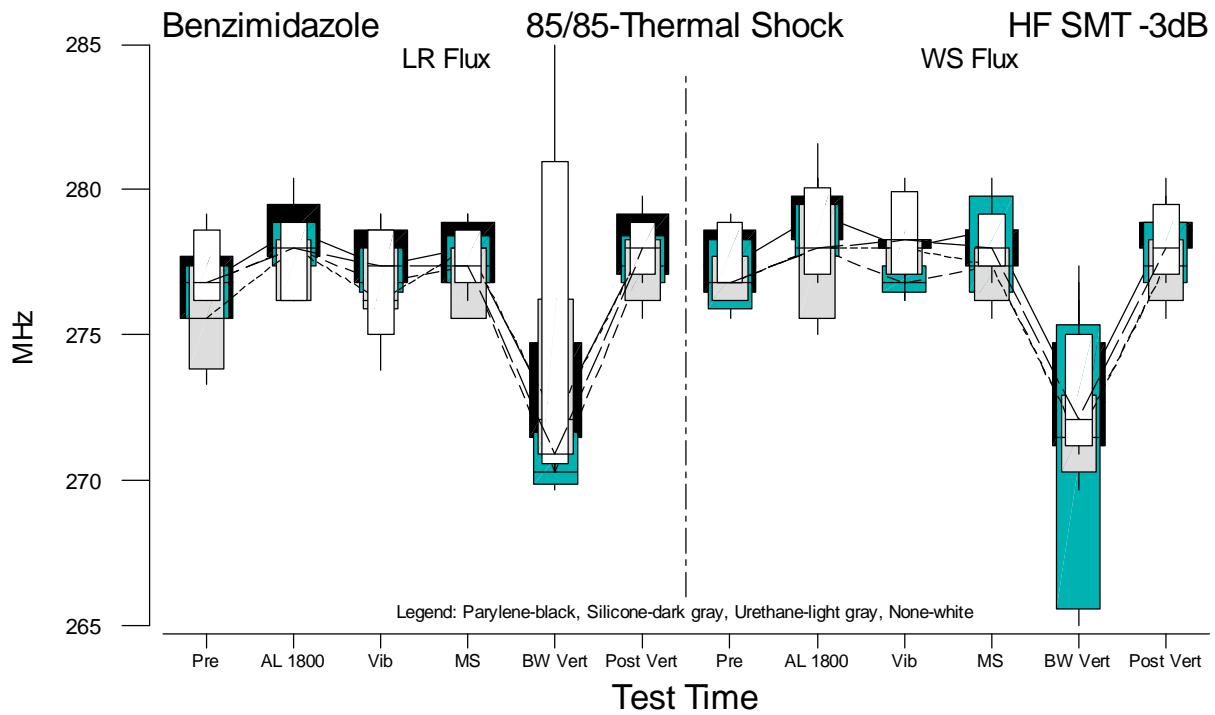


Figure J.42 Boxplots of HF SMT f(-3dB) Measurements for Benzimidazole versus Test Time

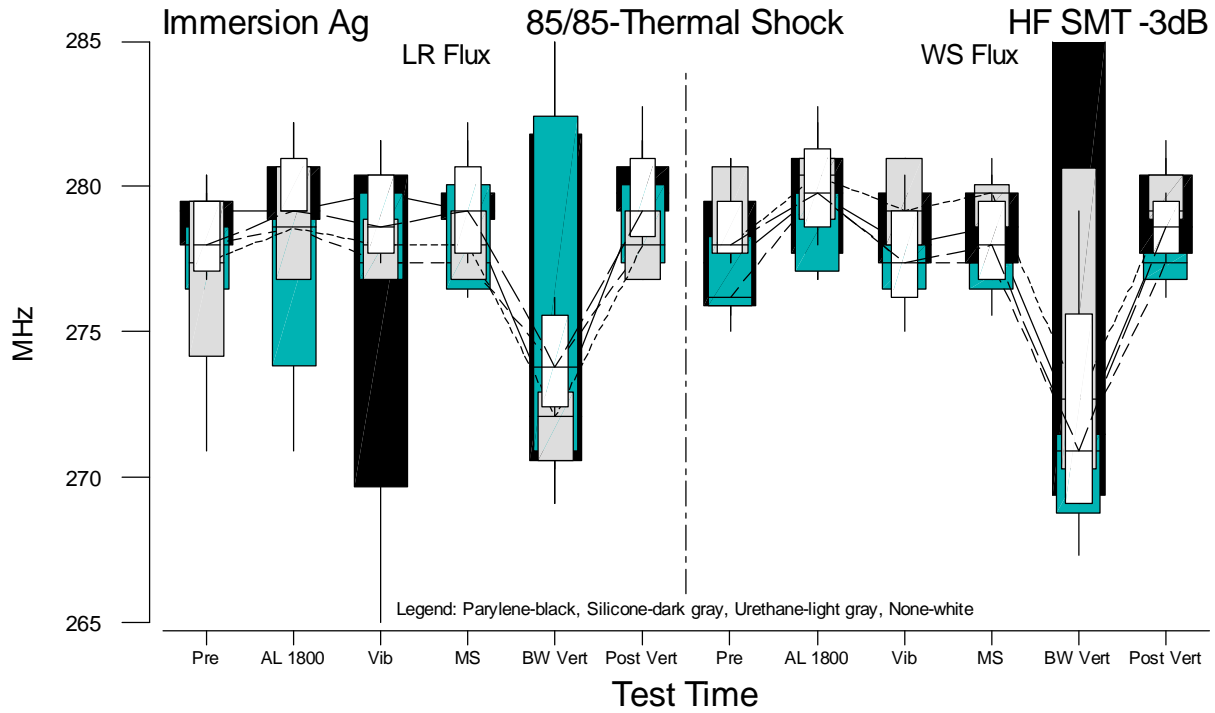


Figure J.43 Boxplots of HF SMT f(-3dB) Measurements for Immersion Ag versus Test Time

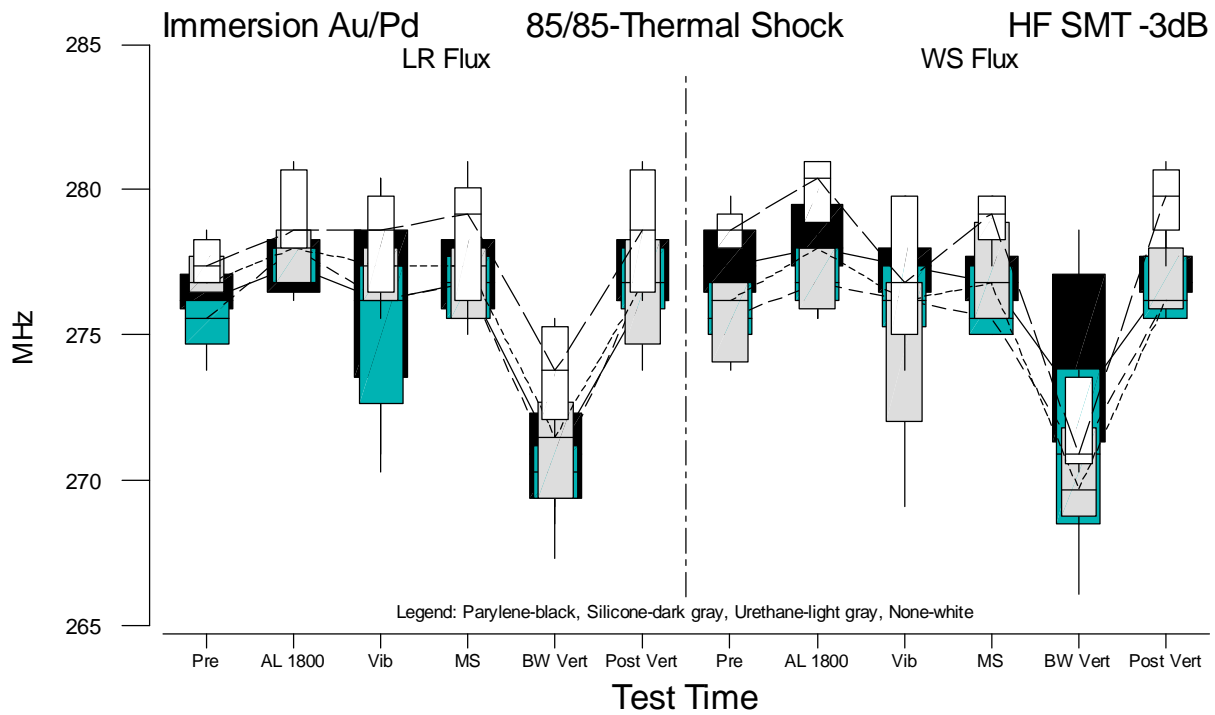


Figure J.44 Boxplots of HF SMT f(-3dB) Measurements for Immersion Au/Pd versus Test Time

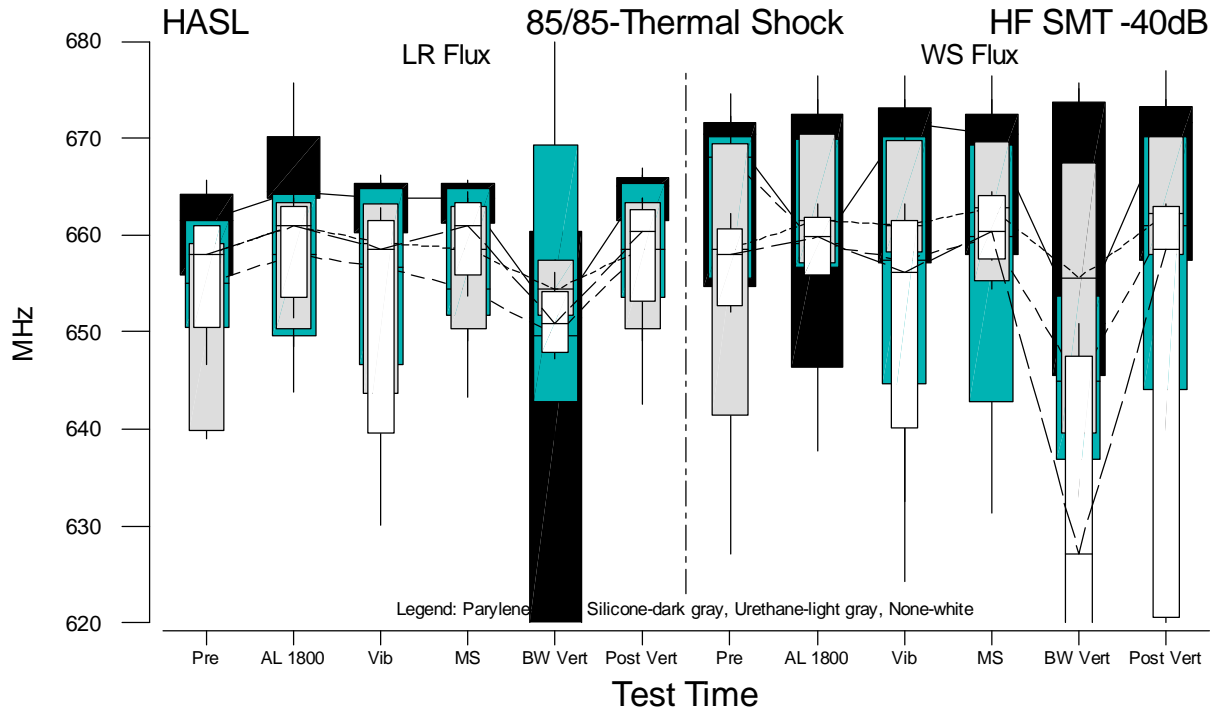


Figure J.45 Boxplots of HF SMT f(-40dB) Measurements for HASL versus Test Time

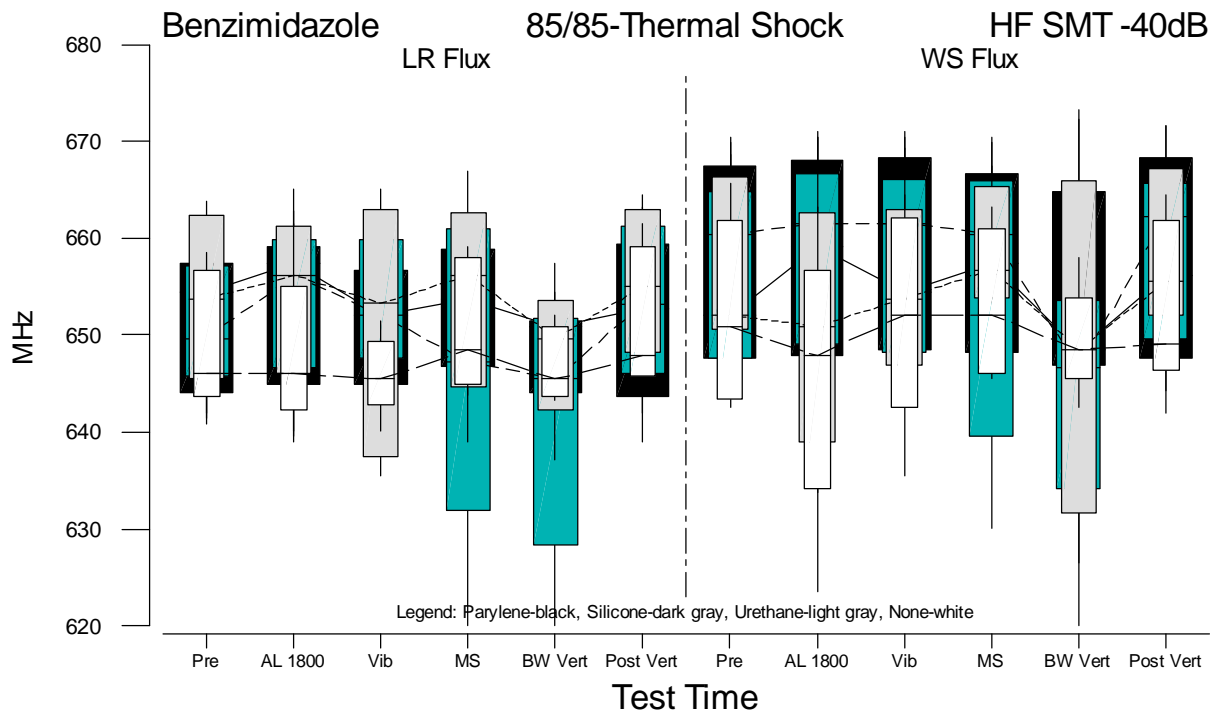


Figure J.46 Boxplots of HF SMT f(-40dB) Measurements for Benzimidazole versus Test Time

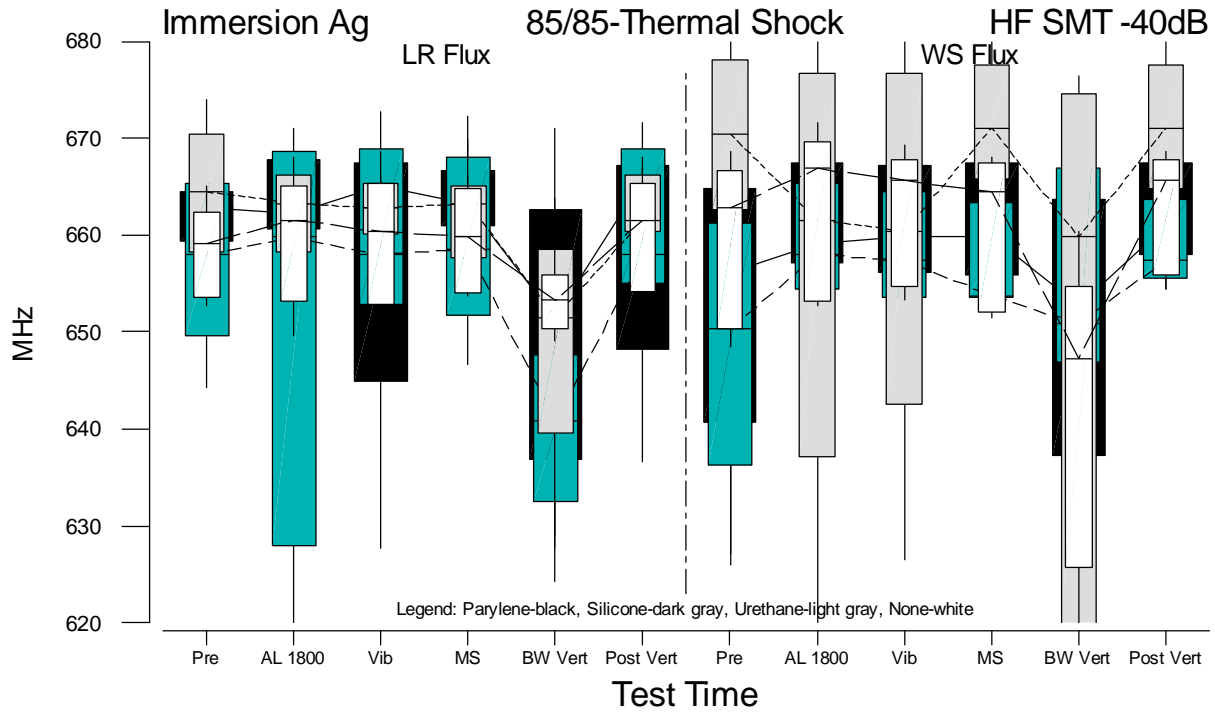


Figure J.47 Boxplots of HF SMT f(-40dB) Measurements for Immersion Ag versus Test Time

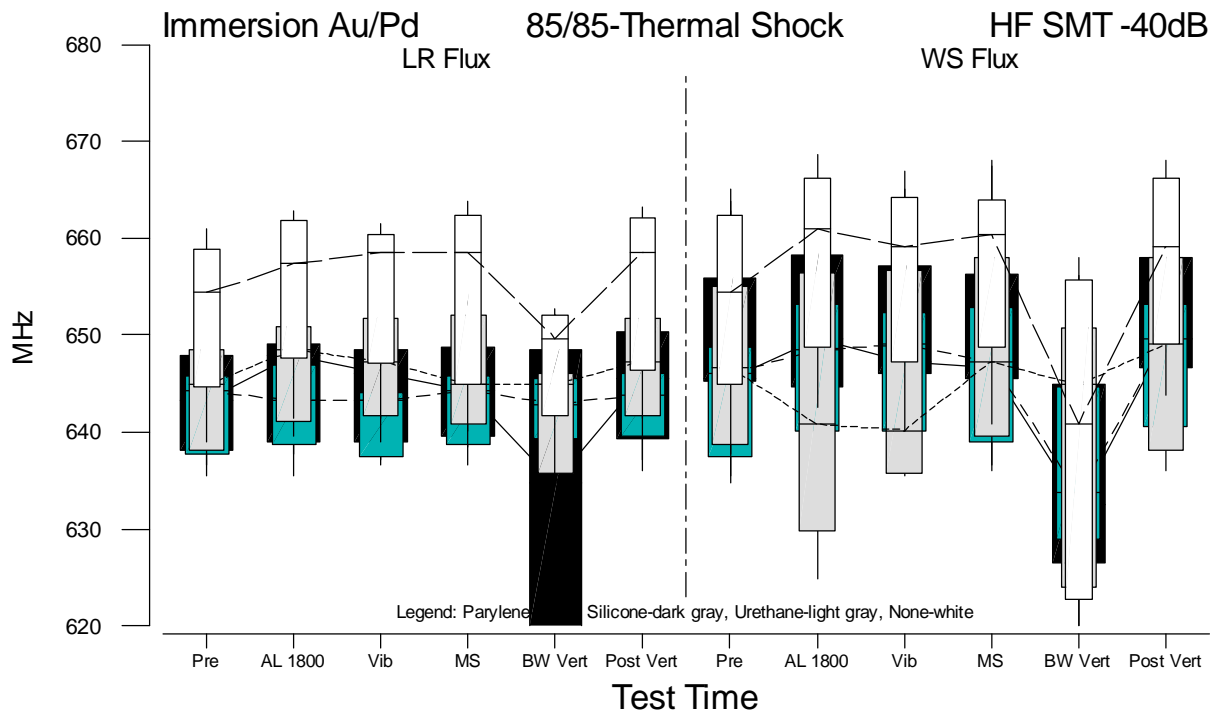


Figure J.48 Boxplots of HF SMT f(-40dB) Measurements for Immersion Au/Pd versus Test Time

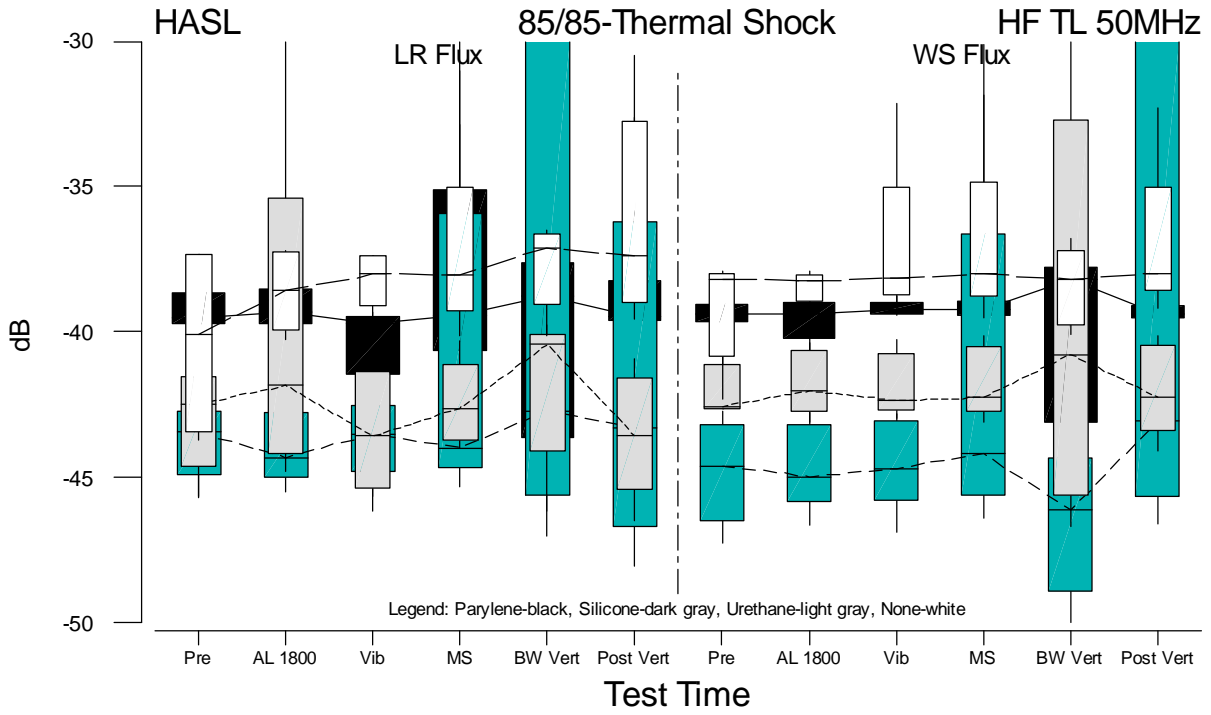


Figure J.49 Boxplots of HF TLC 50MHz Measurements for HASL versus Test Time

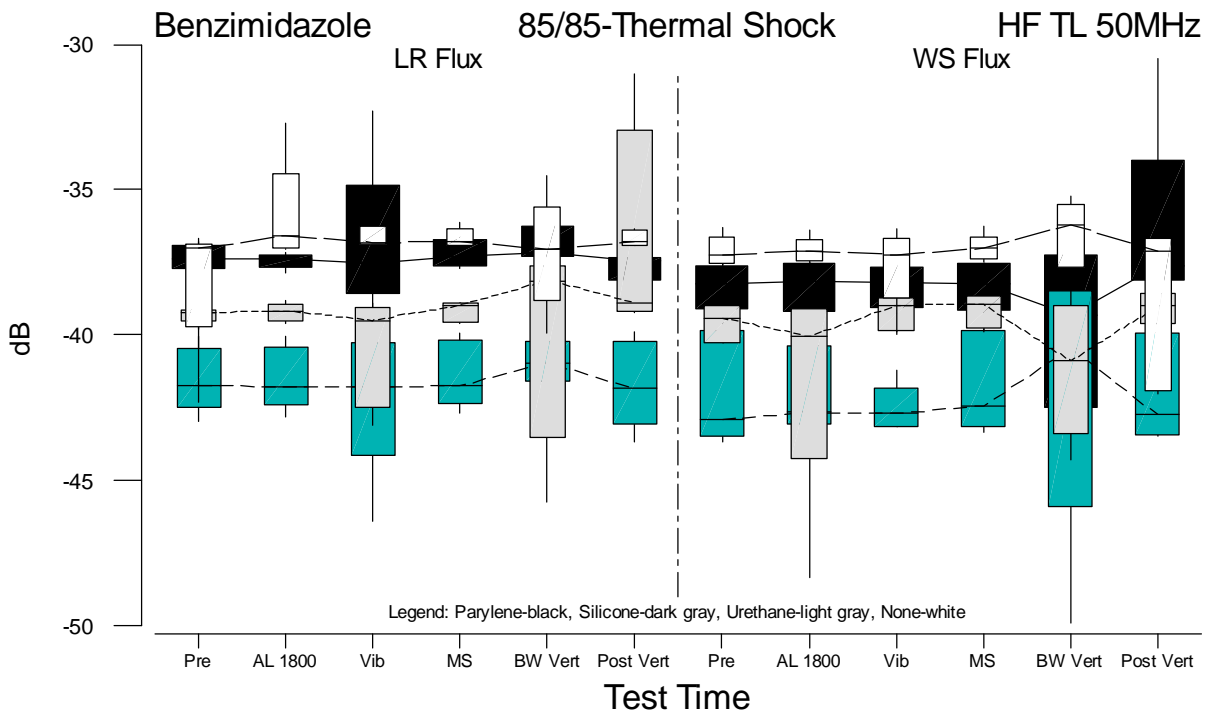


Figure J.50 Boxplots of HF TLC 50MHz Measurements for Benzimidazole versus Test Time

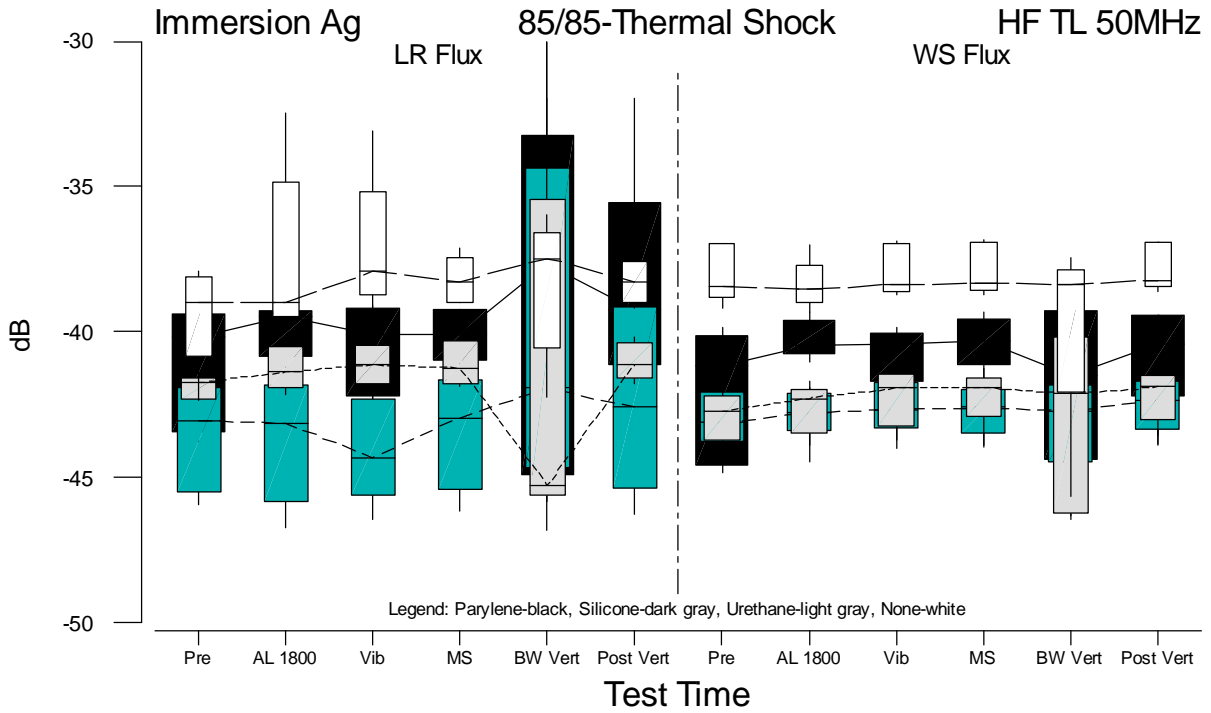


Figure J.51 Boxplots of HF TLC 50MHz Measurements for Immersion Ag versus Test Time

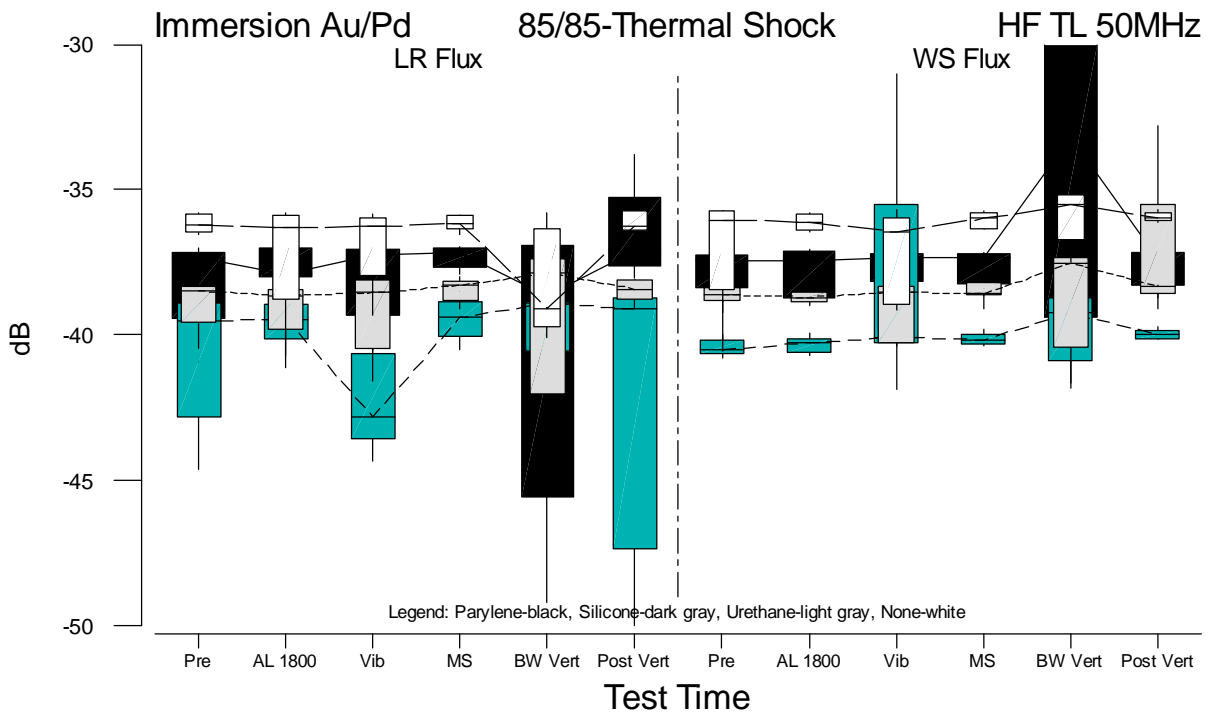


Figure J.52 Boxplots of HF TLC 50MHz Measurements for Immersion Au/Pd versus Test Time

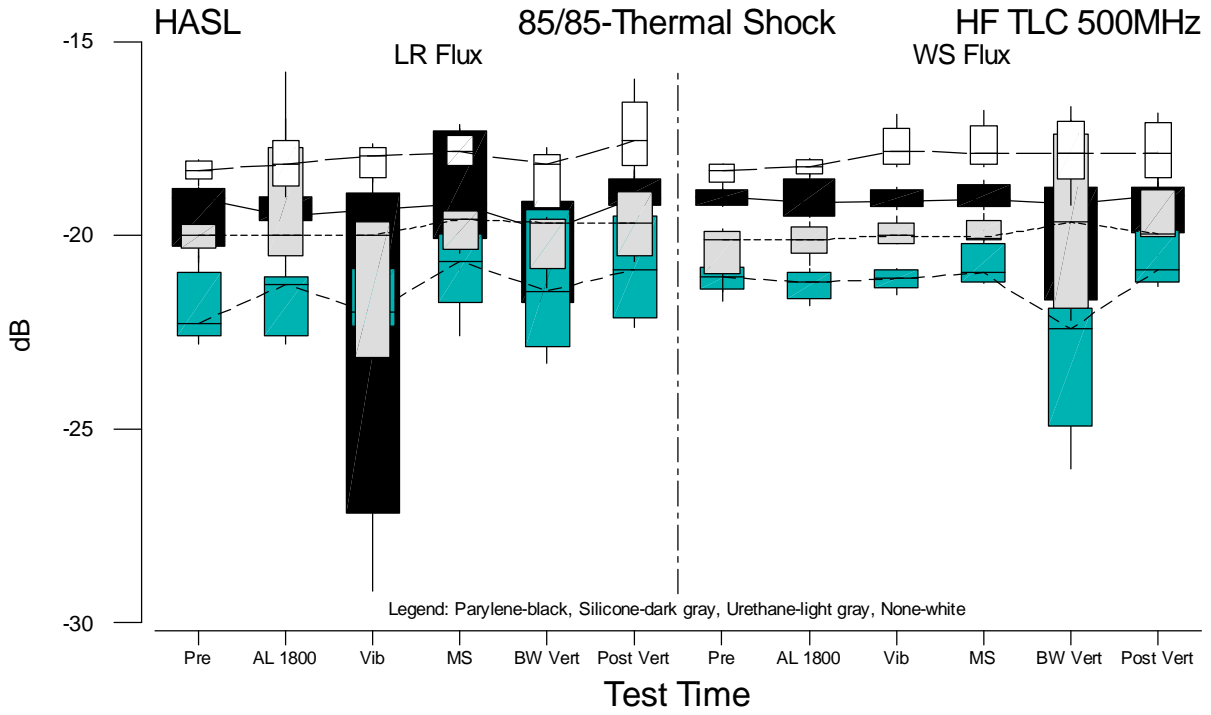


Figure J.53 Boxplots of HF TLC 500MHz Measurements for HASL versus Test Time

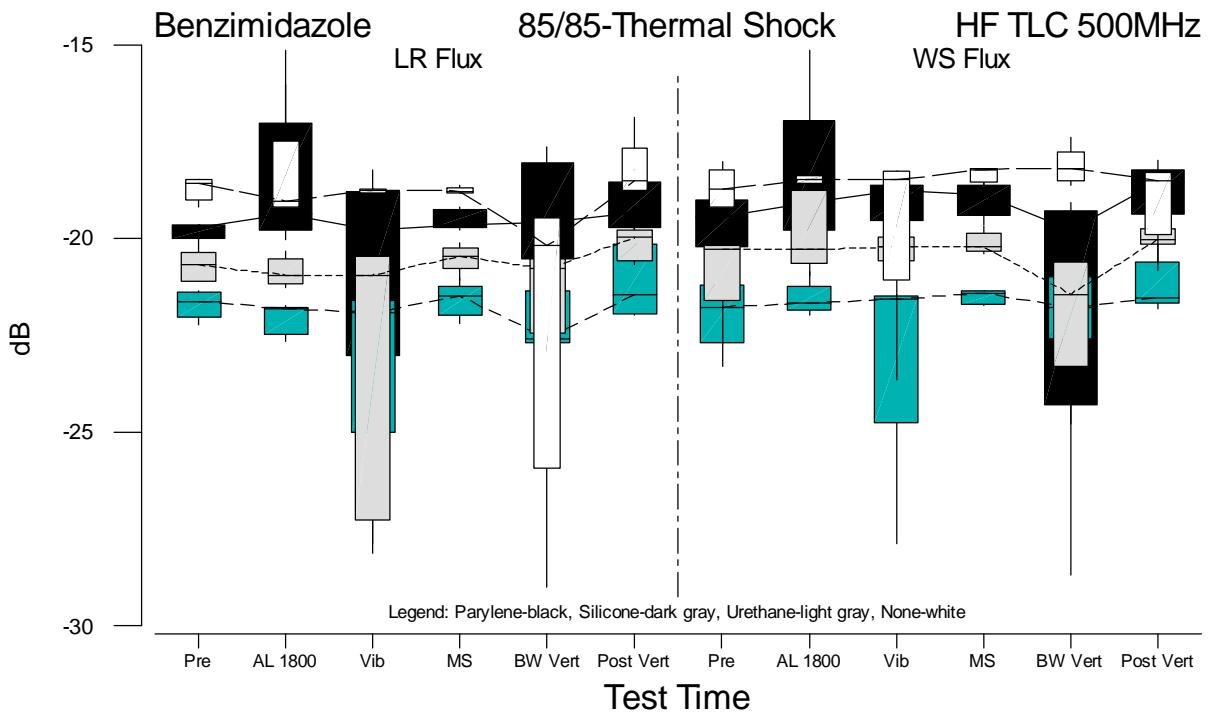


Figure J.54 Boxplots of HF TLC 500MHz Measurements for Benzimidazole versus Test Time

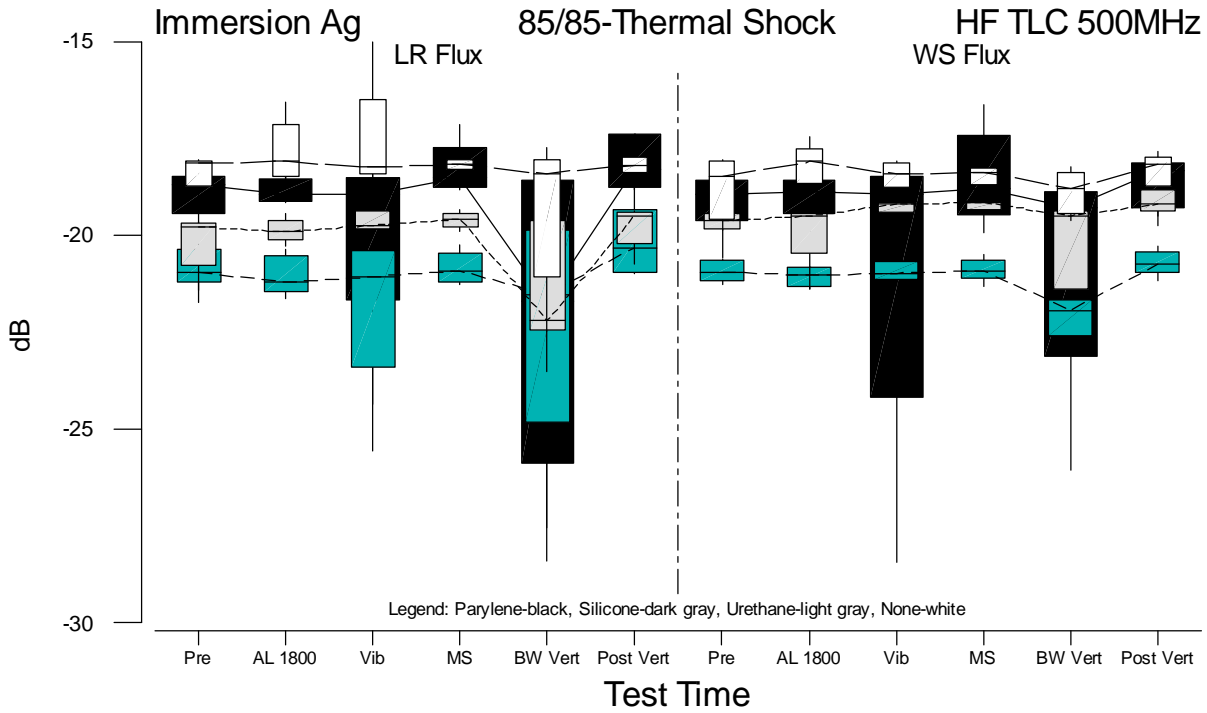


Figure J.55 Boxplots of HF TLC 500MHz Measurements for Immersion Ag versus Test Time

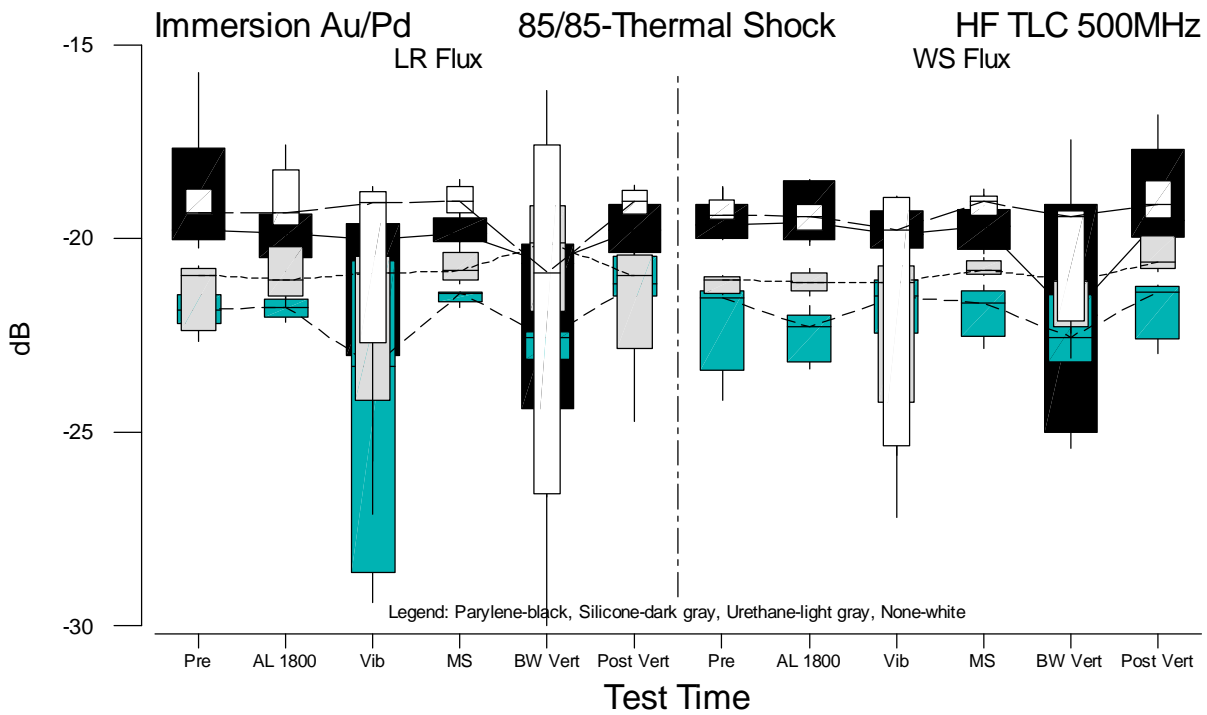


Figure J.56 Boxplots of HF TLC 500MHz Measurements for Immersion Au/Pd versus Test Time

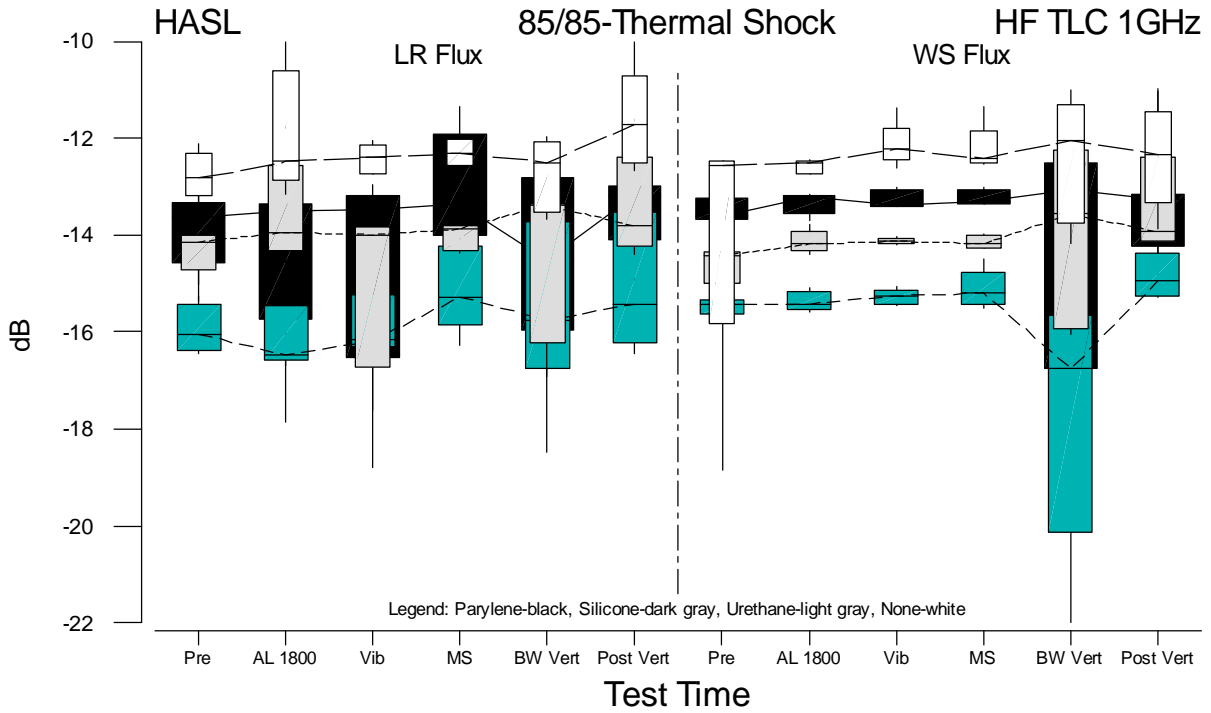


Figure J.57 Boxplots of HF TLC 1GHz Measurements for HASL versus Test Time

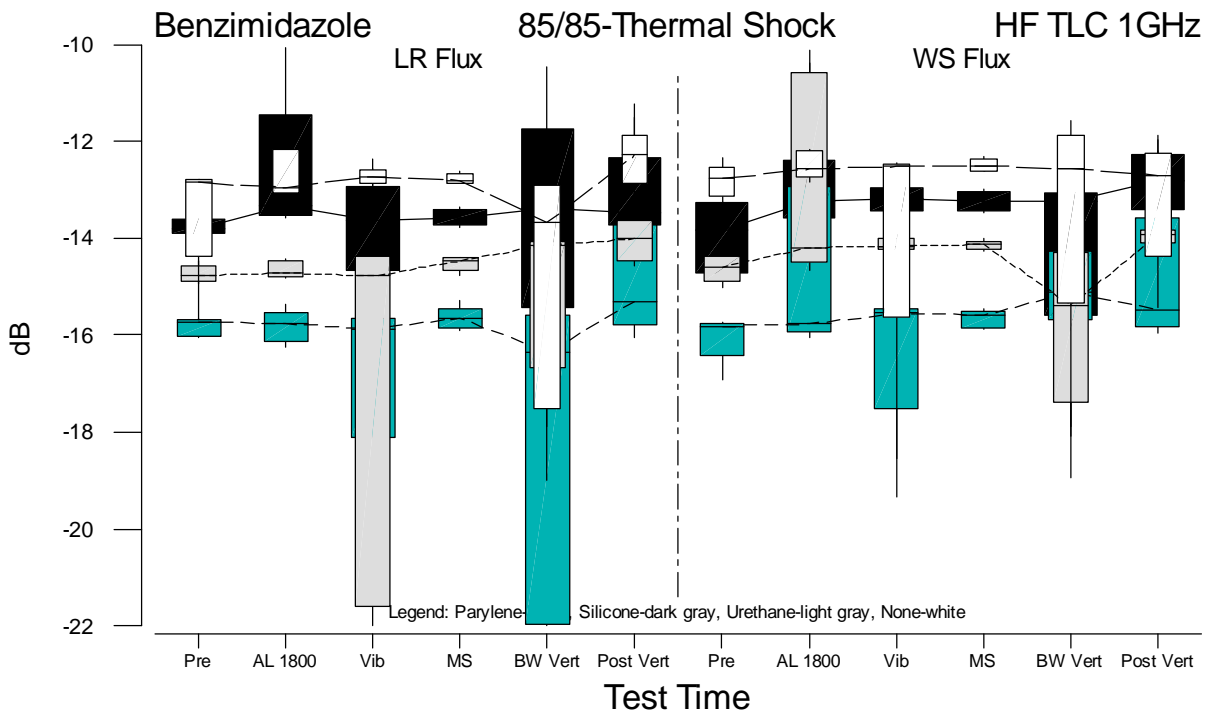


Figure J.58 Boxplots of HF TLC 1GHz Measurements for Benzimidazole versus Test Time

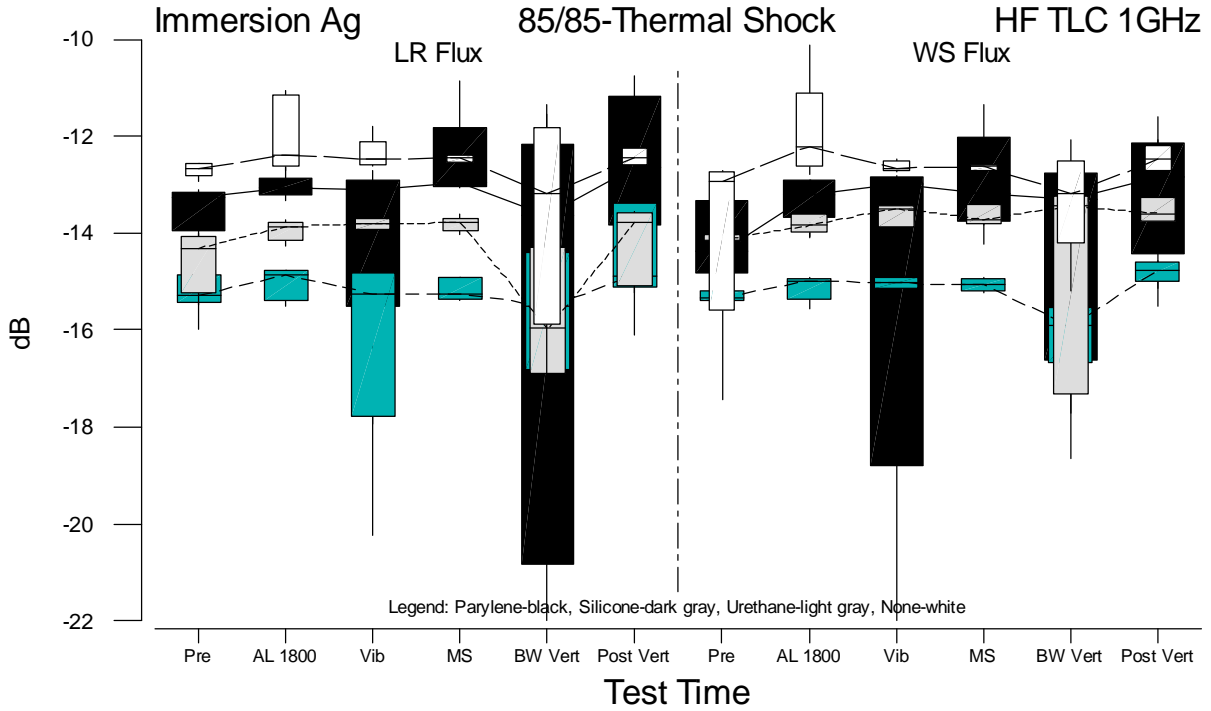


Figure J.59 Boxplots of HF TLC 1GHz Measurements for Immersion Ag versus Test Time

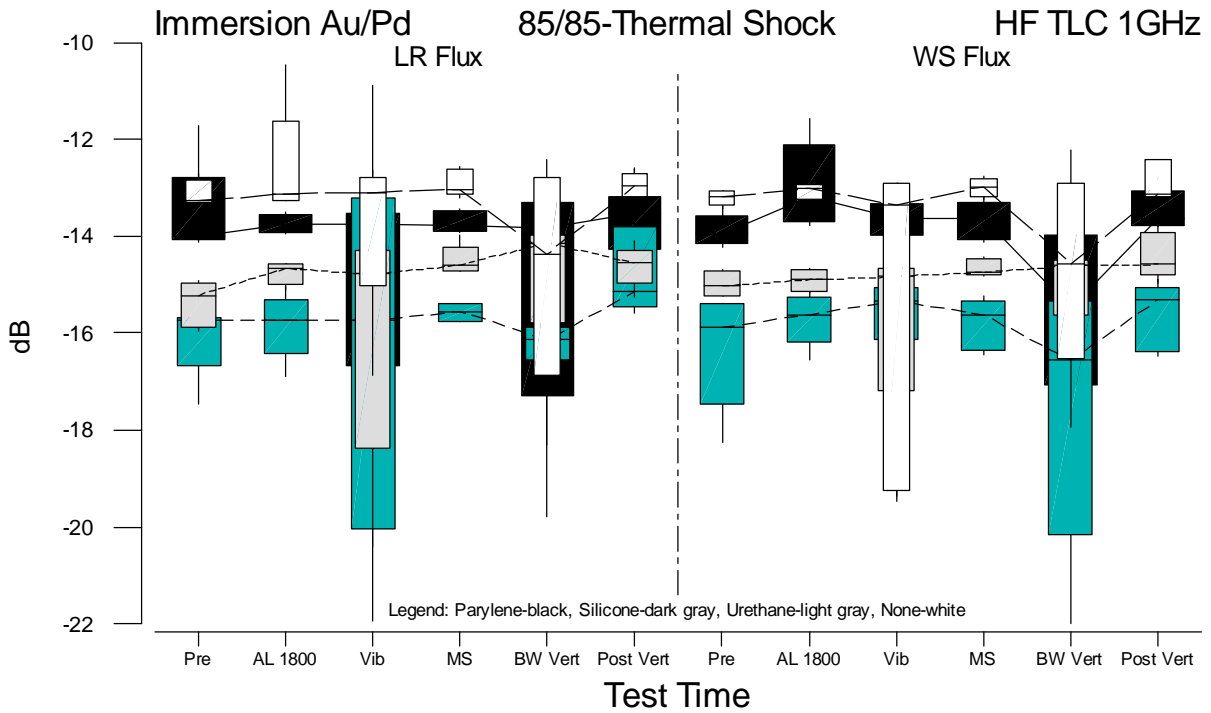


Figure J.60 Boxplots of HF TLC 1GHz Measurements for Immersion Au/Pd versus Test Time

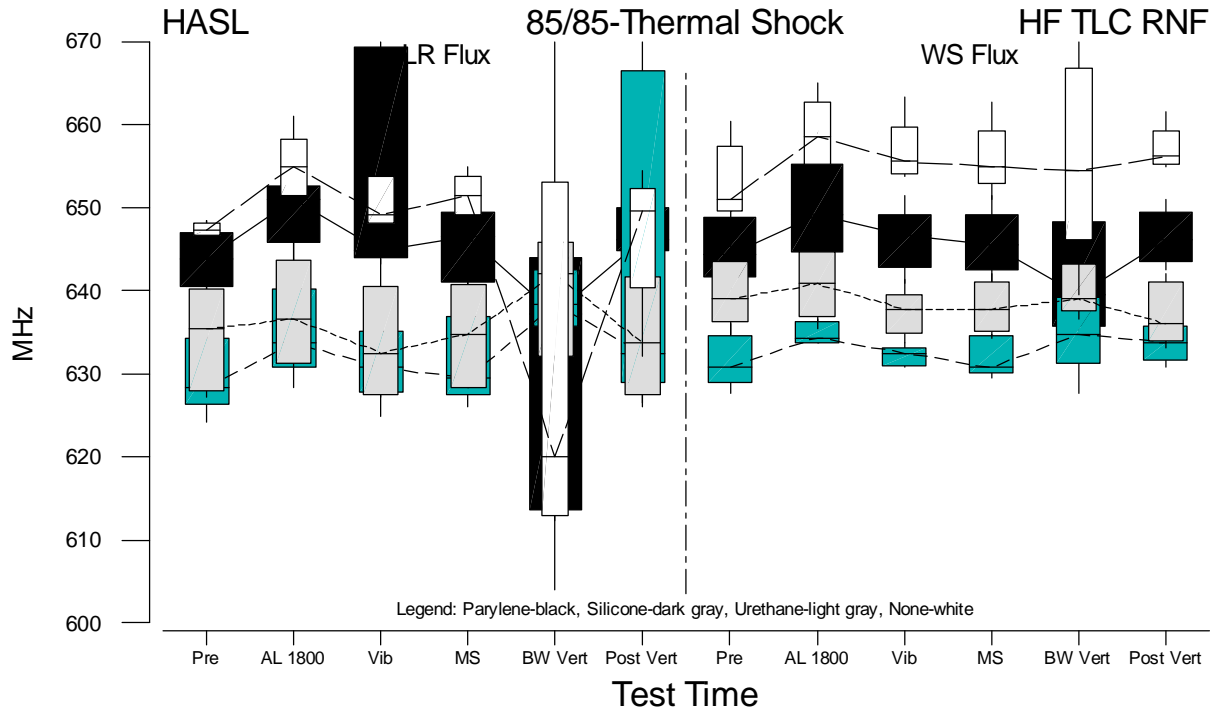


Figure J.61 Boxplots of HF TLC Rev. Null Frequency Measurements for HASL versus Test Time

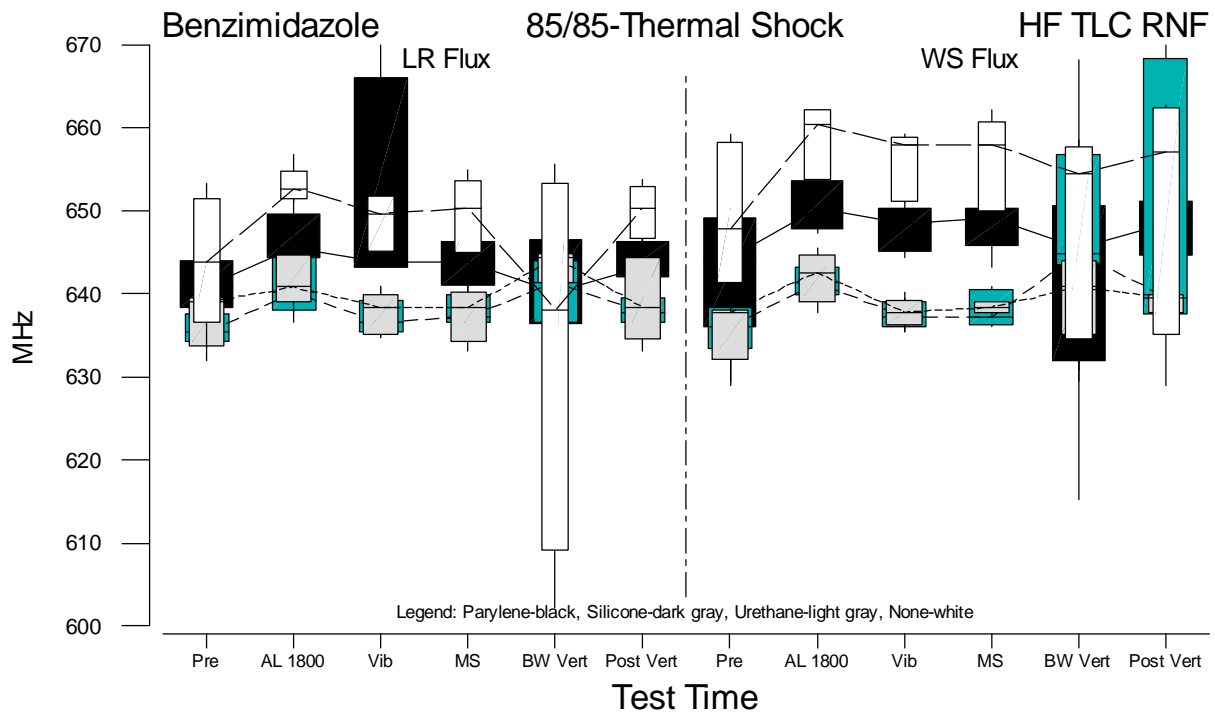


Figure J.62 Boxplots of HF TLC Rev. Null Frequency Measurements for Benzimidazole vs. Test Time

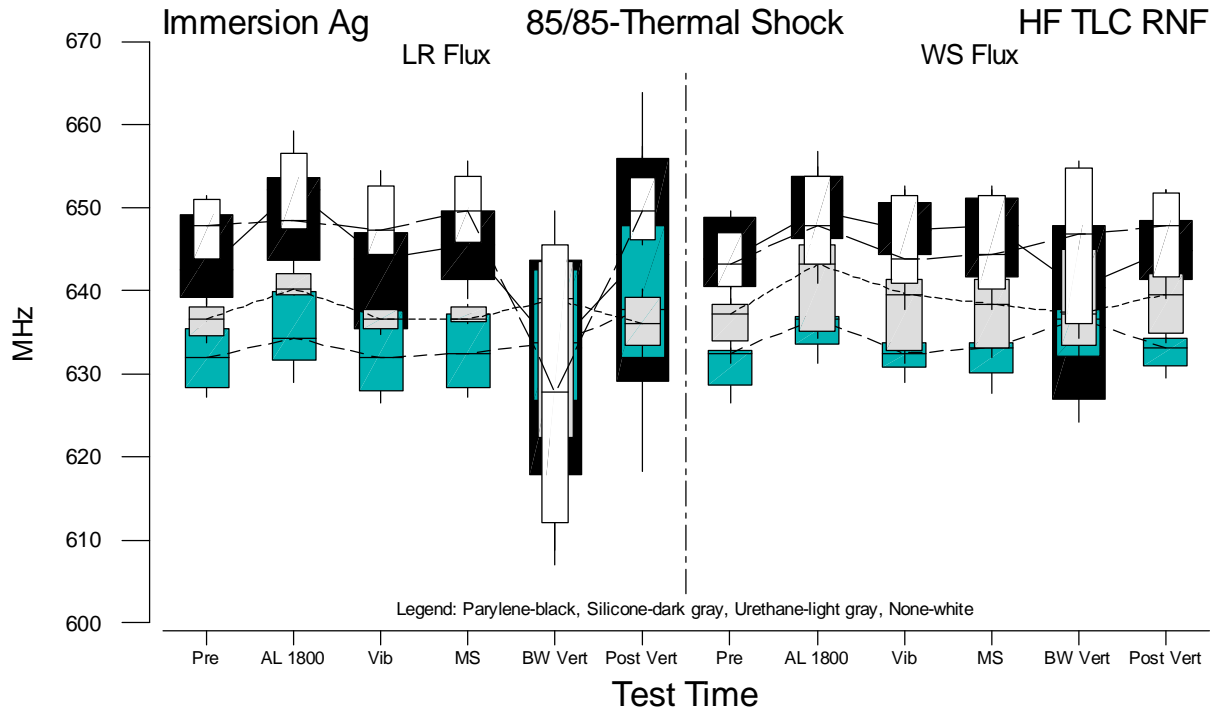


Figure J.63 Boxplots of HF TLC Rev. Null Frequency Measurements for Immersion Ag vs. Test Time

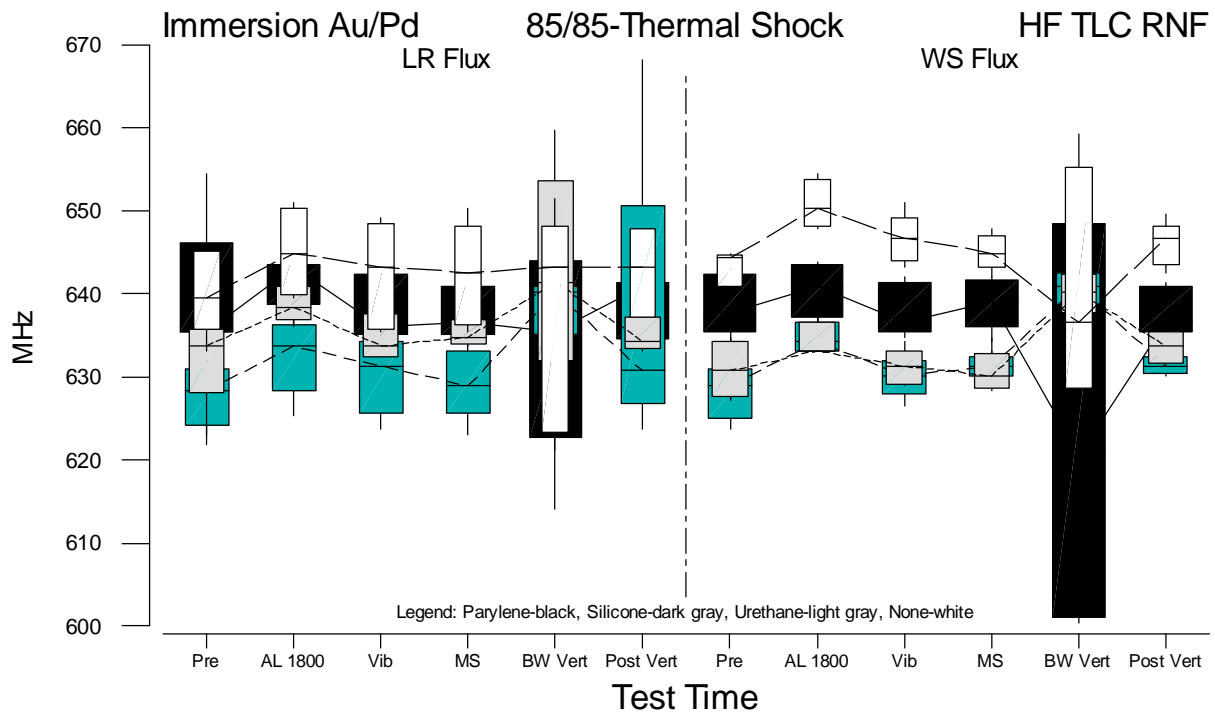


Figure J.64 Boxplots of HF TLC Rev. Null Frequency Measurements for Immersion Au/Pd vs. Test Time

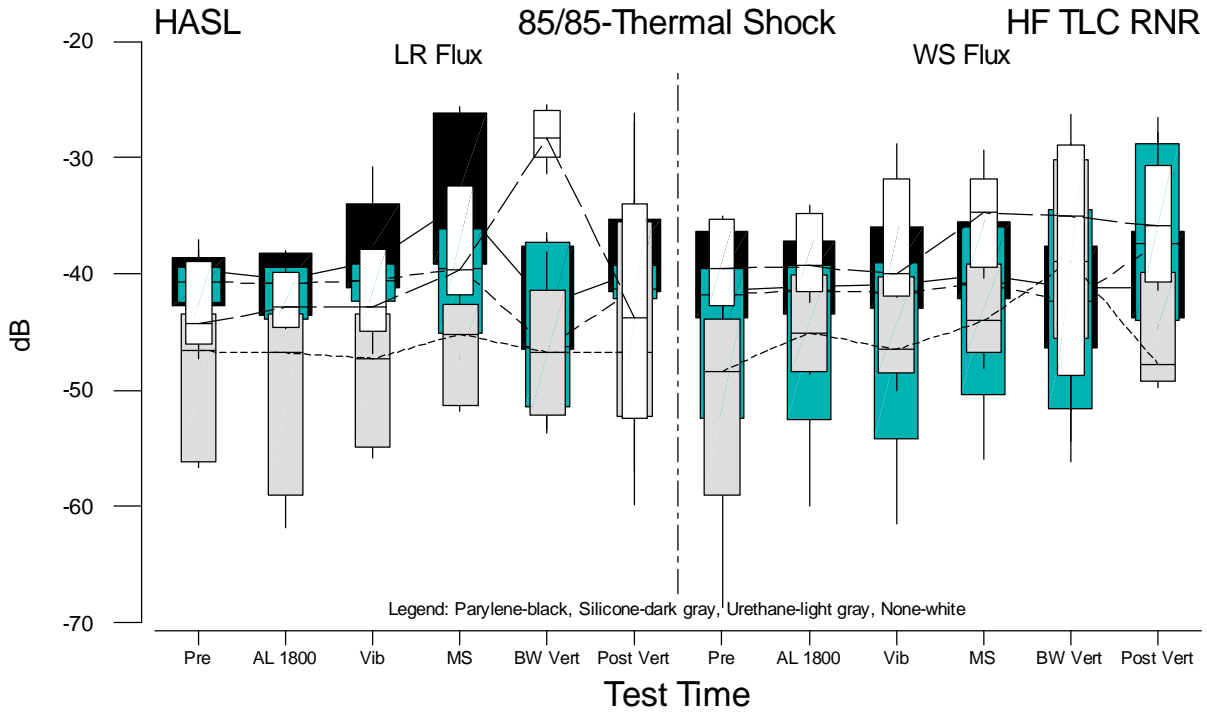


Figure J.65 Boxplots of HF TLC Rev. Null Response Measurements for HASL versus Test Time

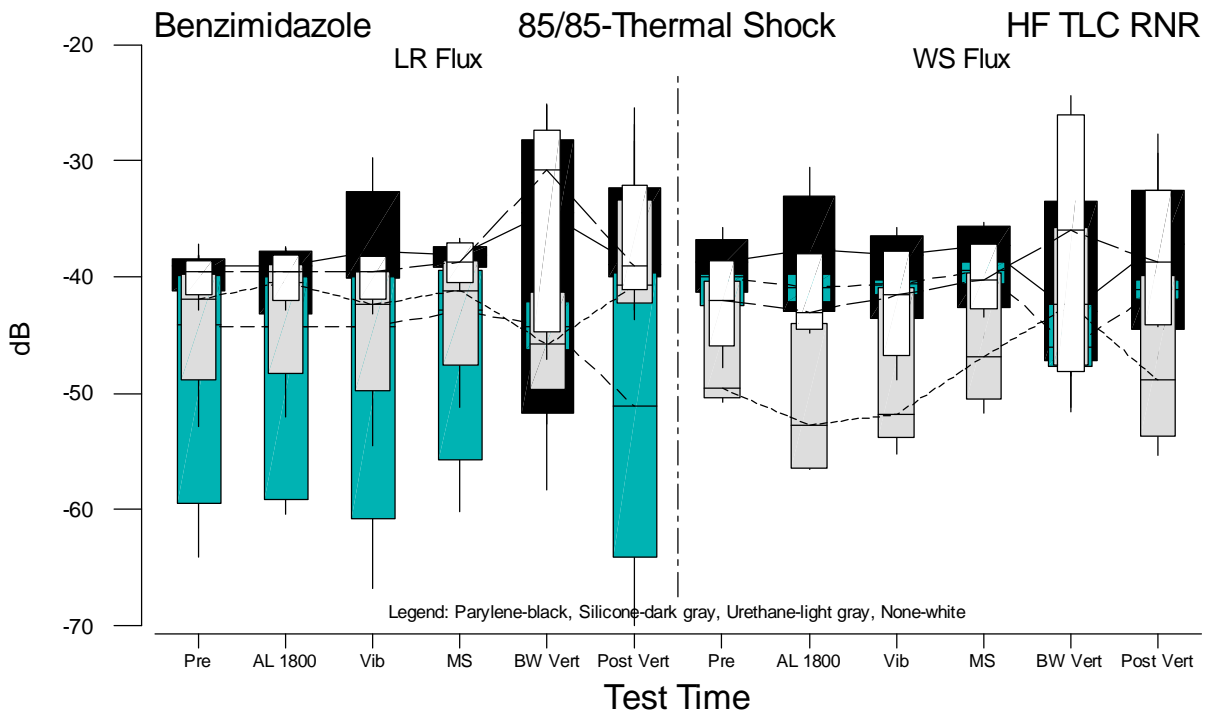


Figure J.66 Boxplots of HF TLC Rev. Null Response Measurements for Benzimidazole versus Test Time

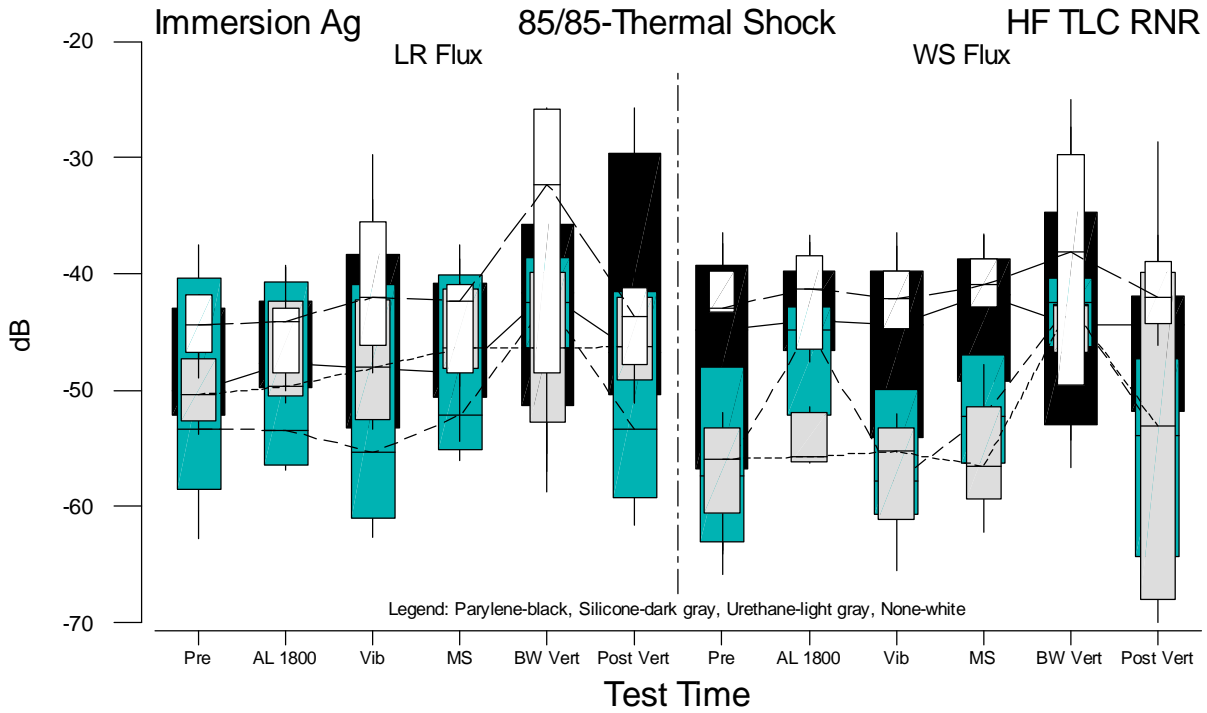


Figure J.67 Boxplots of HF TLC Rev. Null Response Measurements for Immersion Ag versus Test Time

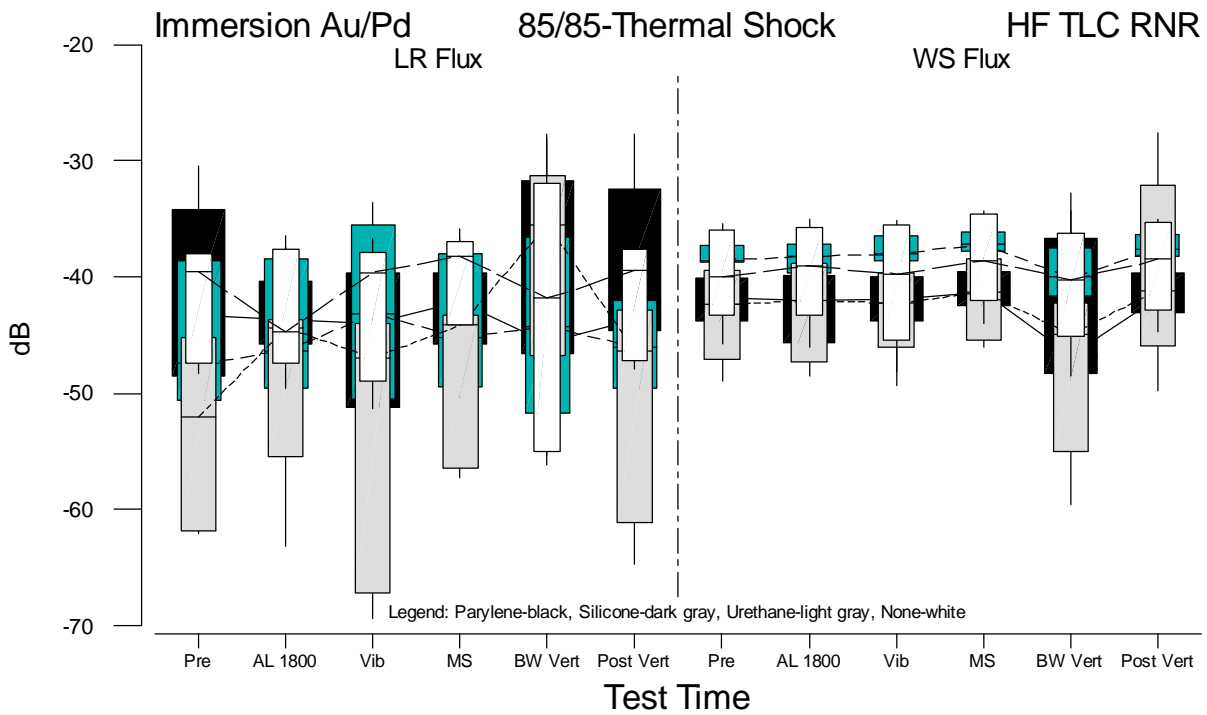


Figure J.68 Boxplots of HF TLC Rev. Null Response Measurements for Immersion Au/Pd vs. Test Time

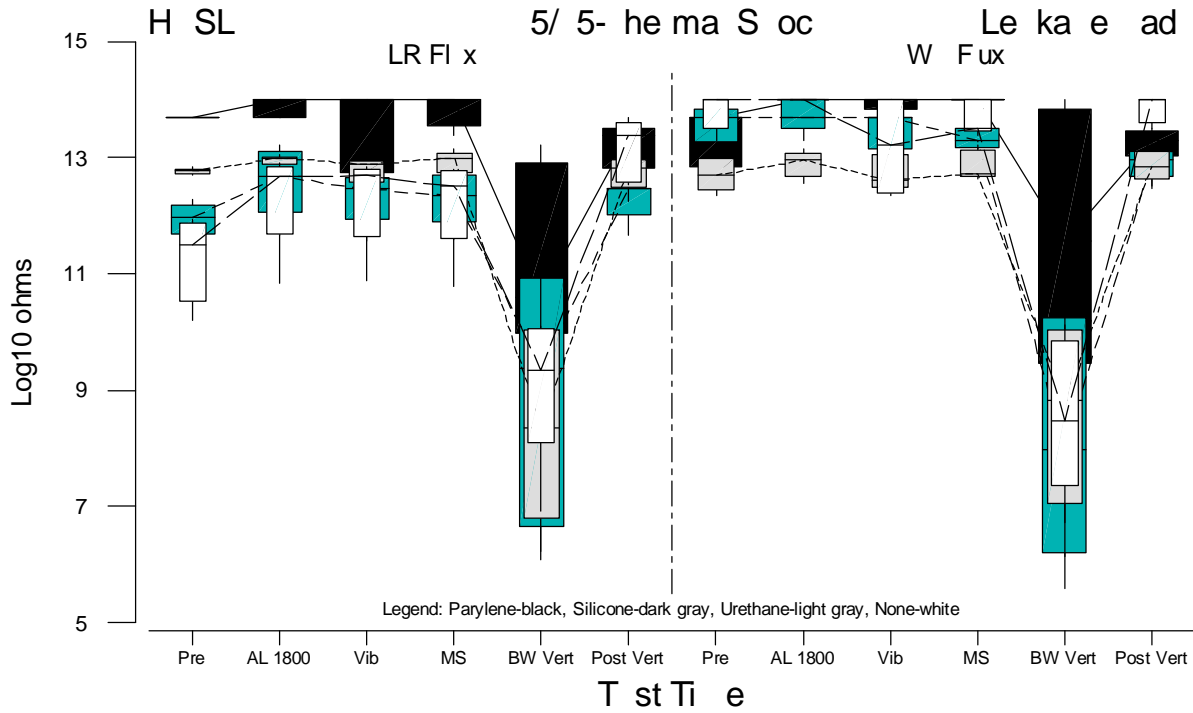


Figure J.69 Boxplots of 10-Mil Leakage Measurements for HASL versus Test Time

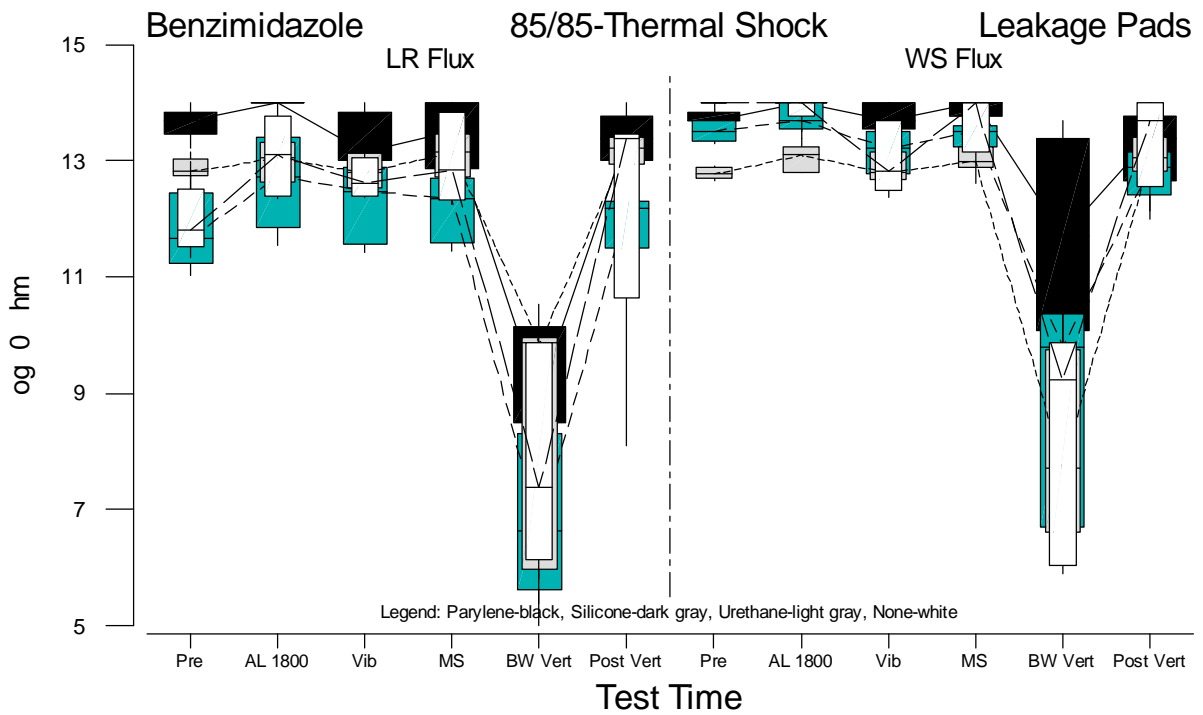


Figure J.70 Boxplots of 10-Mil Leakage Measurements for Benzimidazole versus Test Time

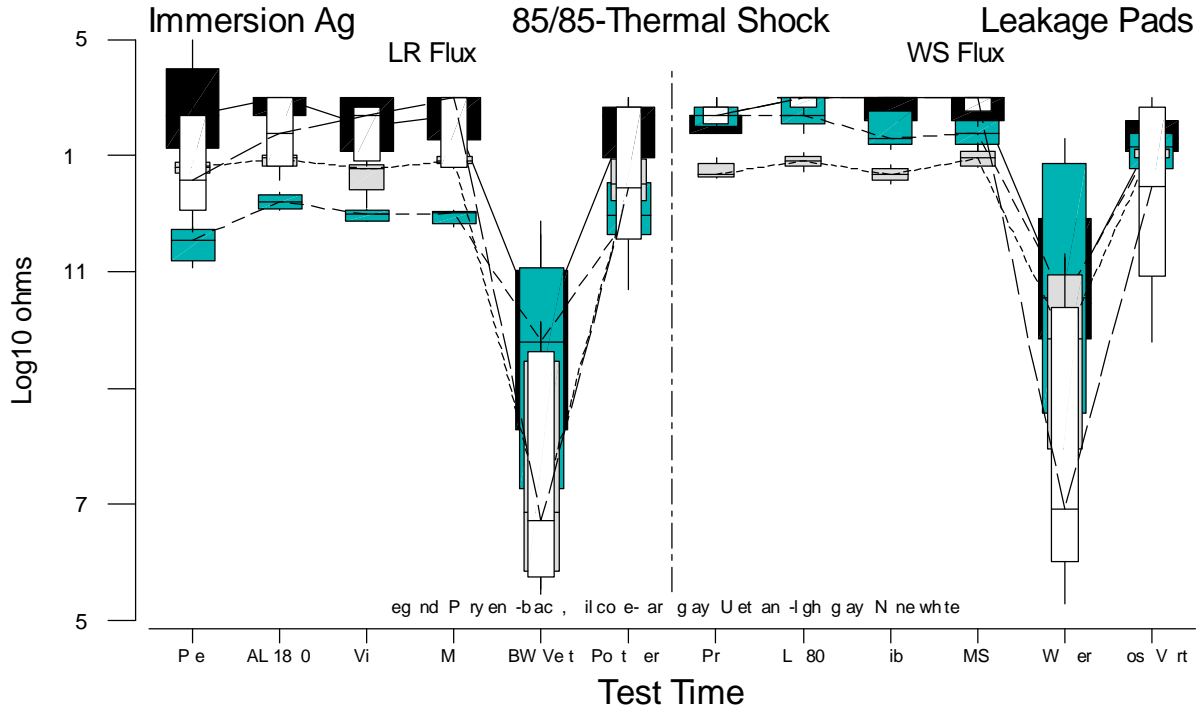


Figure J.71 Boxplots of 10-Mil Leakage Measurements for Immersion Ag versus Test Time

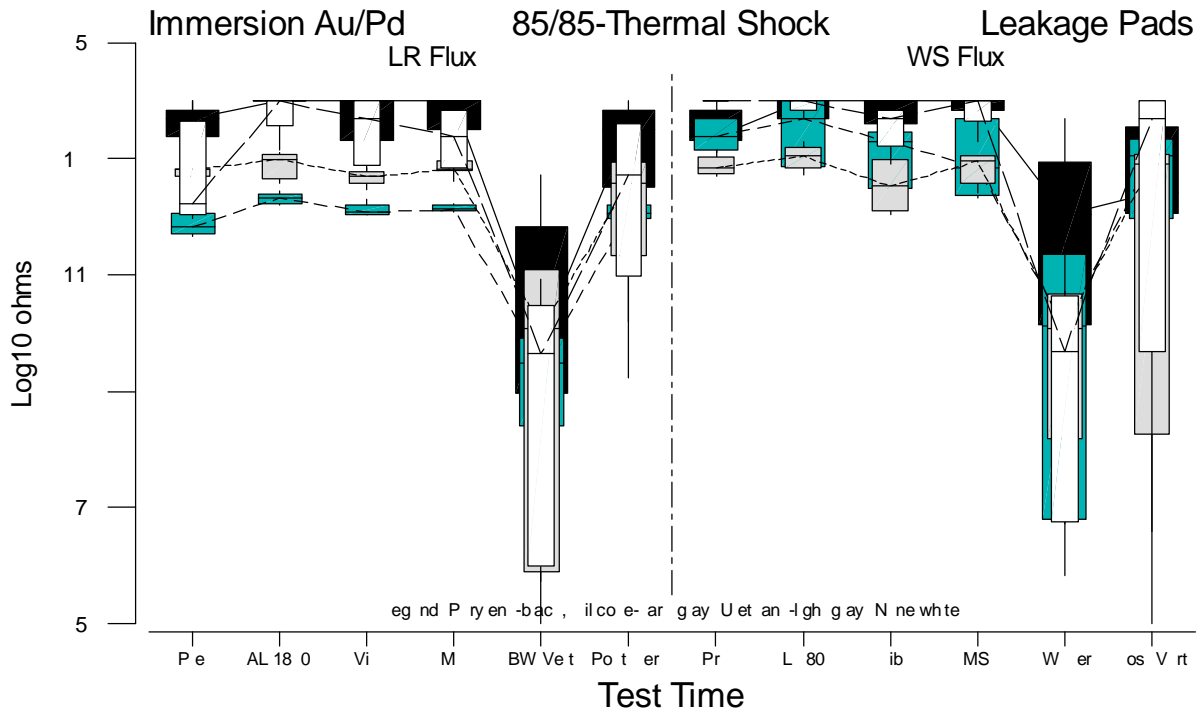


Figure J.72 Boxplots of 10-Mil Leakage Measurements for Immersion Au/Pd versus Test Time e

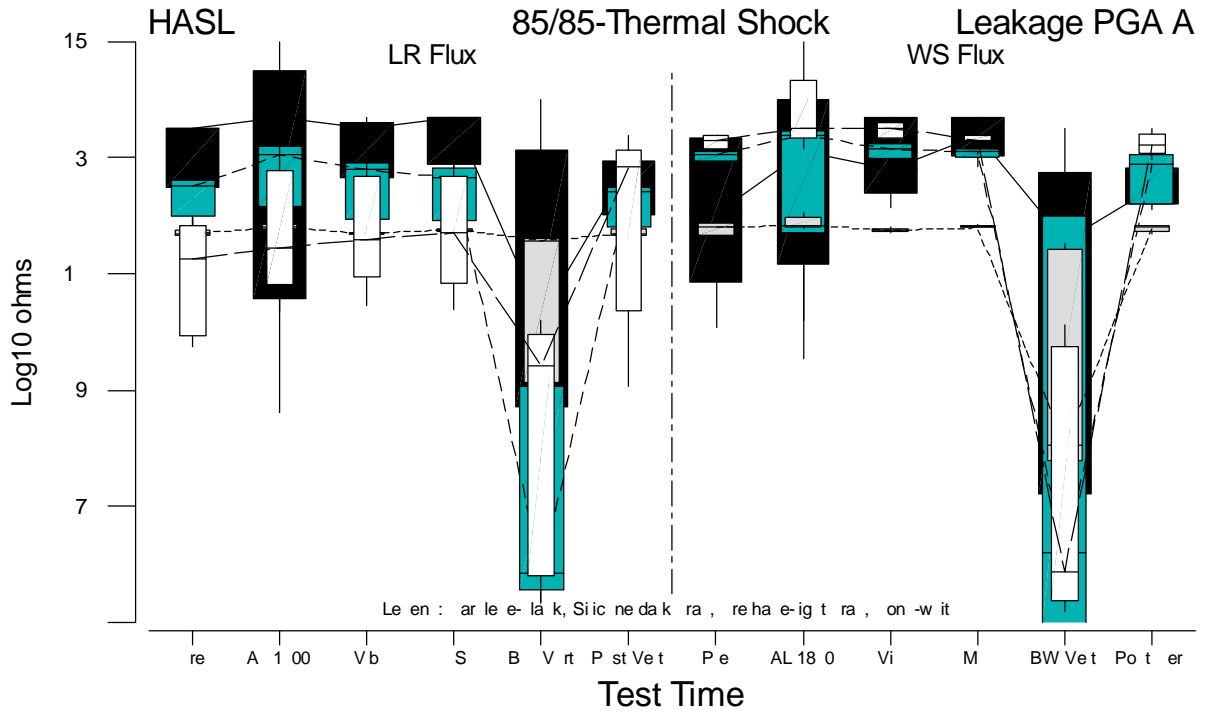


Figure J.73 Boxplots of PGA-A Leakage Measurements for HASL versus Test Time

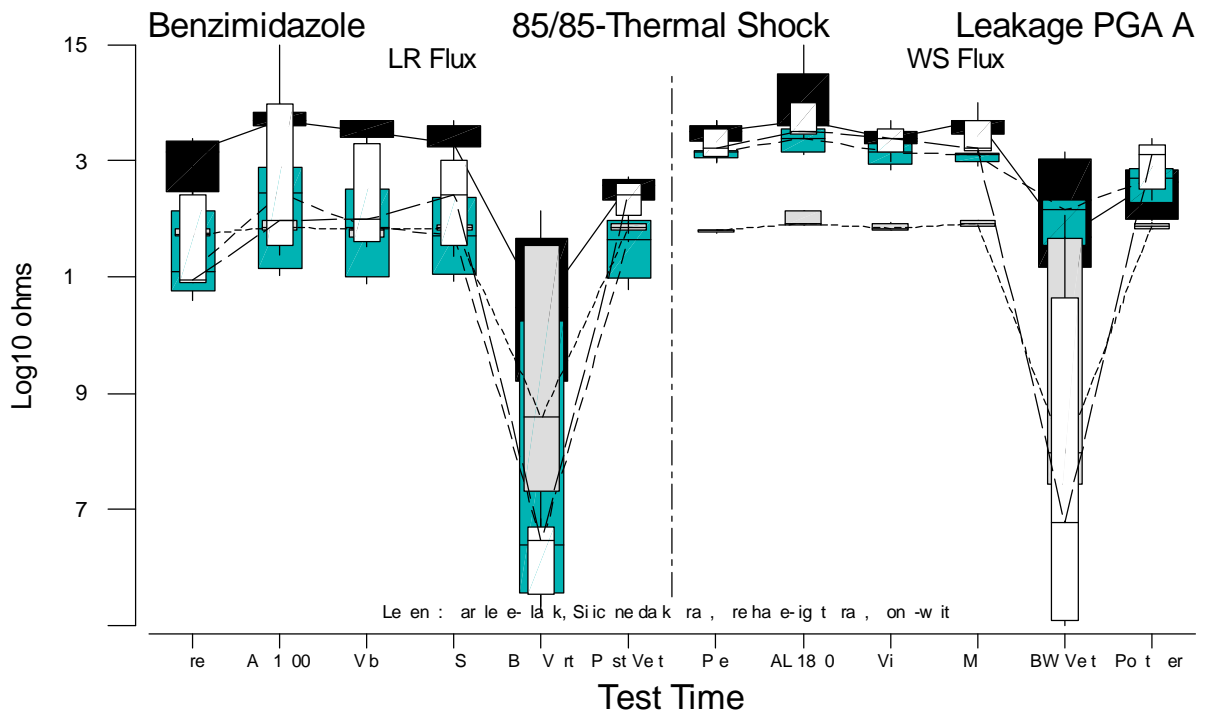


Figure J.74 Boxplots of PGA-A Leakage Measurements for Benzimidazole versus Test Time

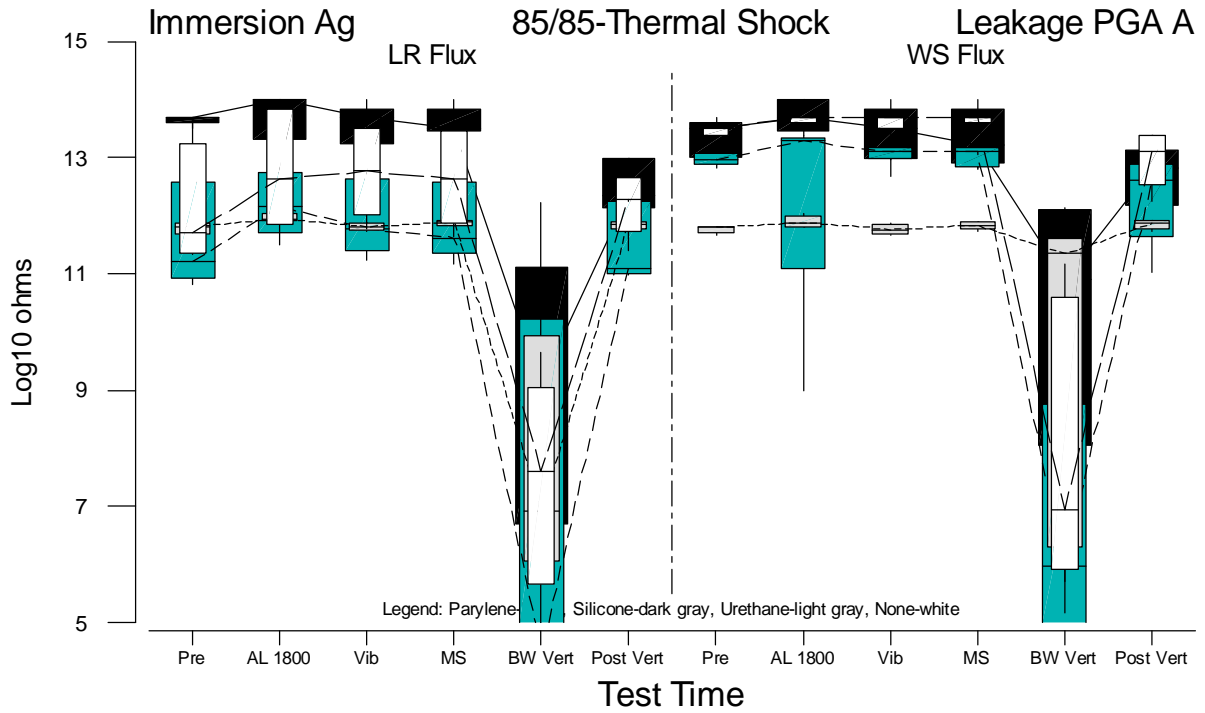


Figure J.75 Boxplots of PGA-A Leakage Measurements for Immersion Ag versus Test Time

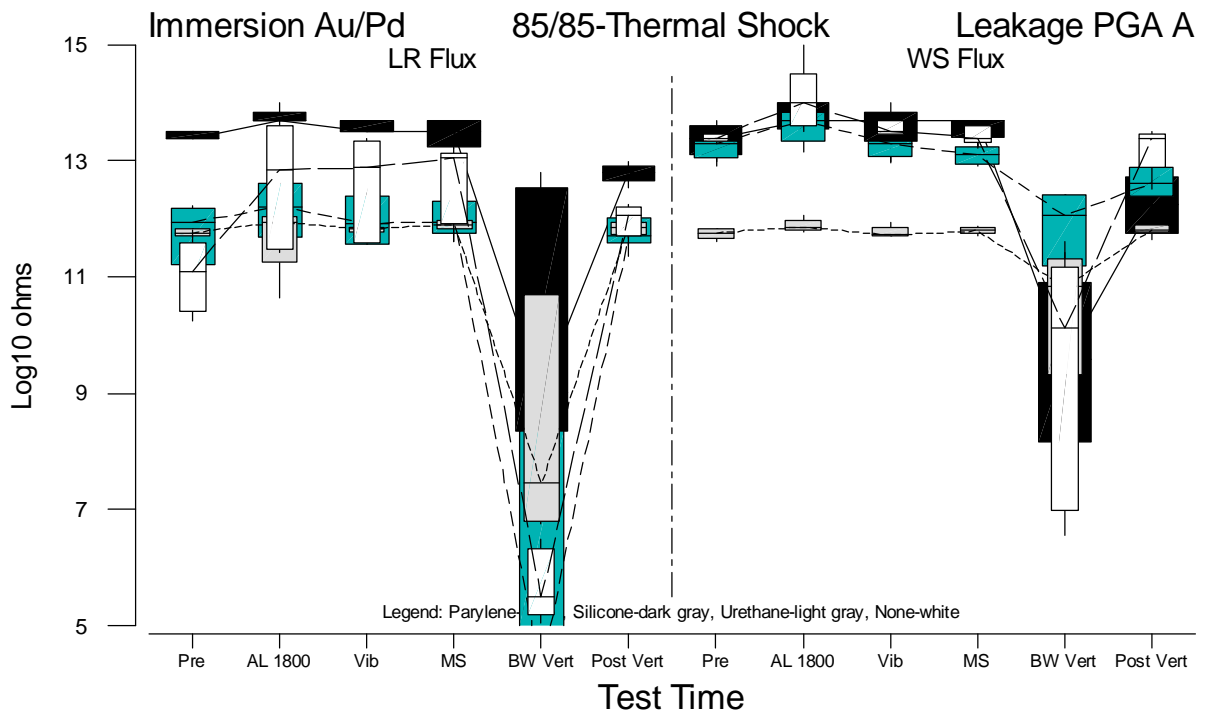


Figure J.76 Boxplots of PGA-A Leakage Measurements for Immersion Au/Pd vs. Test Time

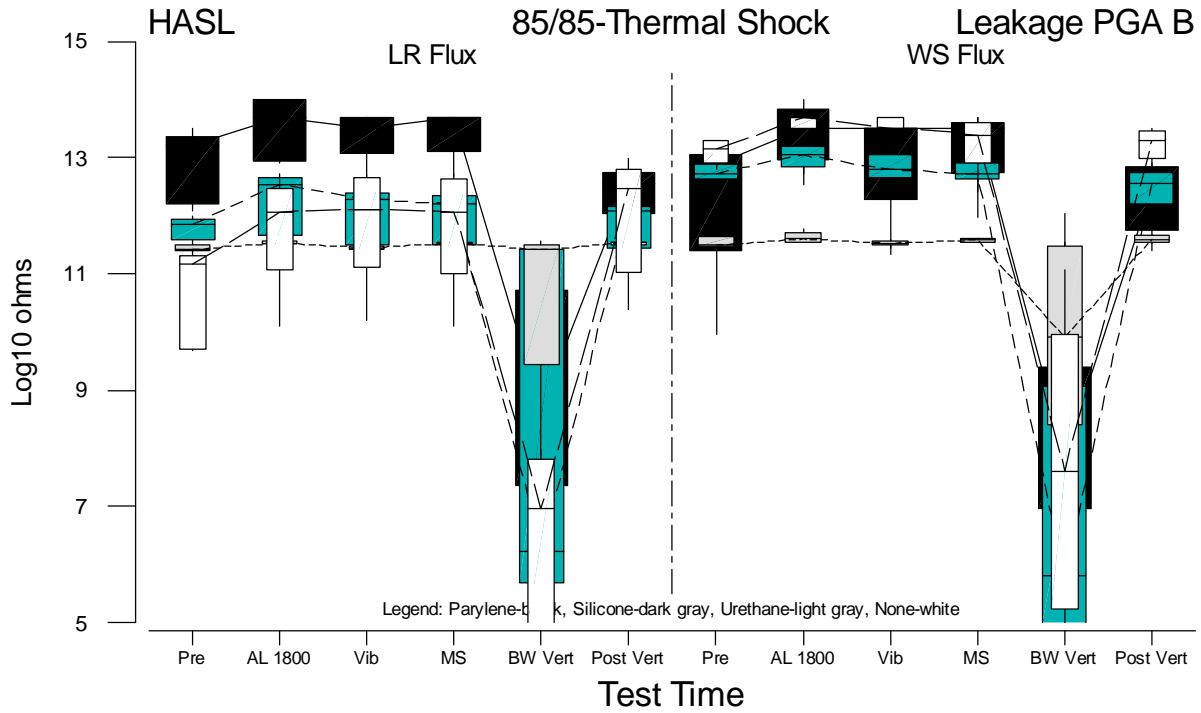


Figure J.77 Boxplots of PGA-B Leakage Measurements for HASL versus Test Time

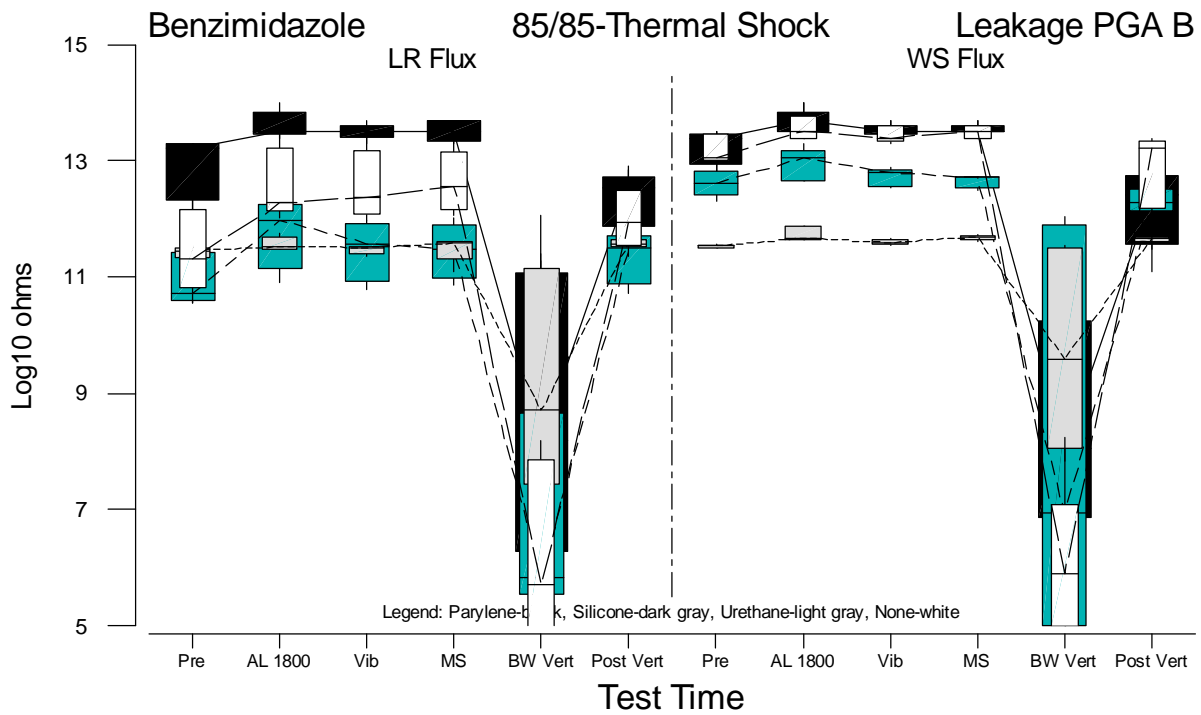


Figure J.78 Boxplots of PGA-B Leakage Measurements for Benzimidazole versus Test Time

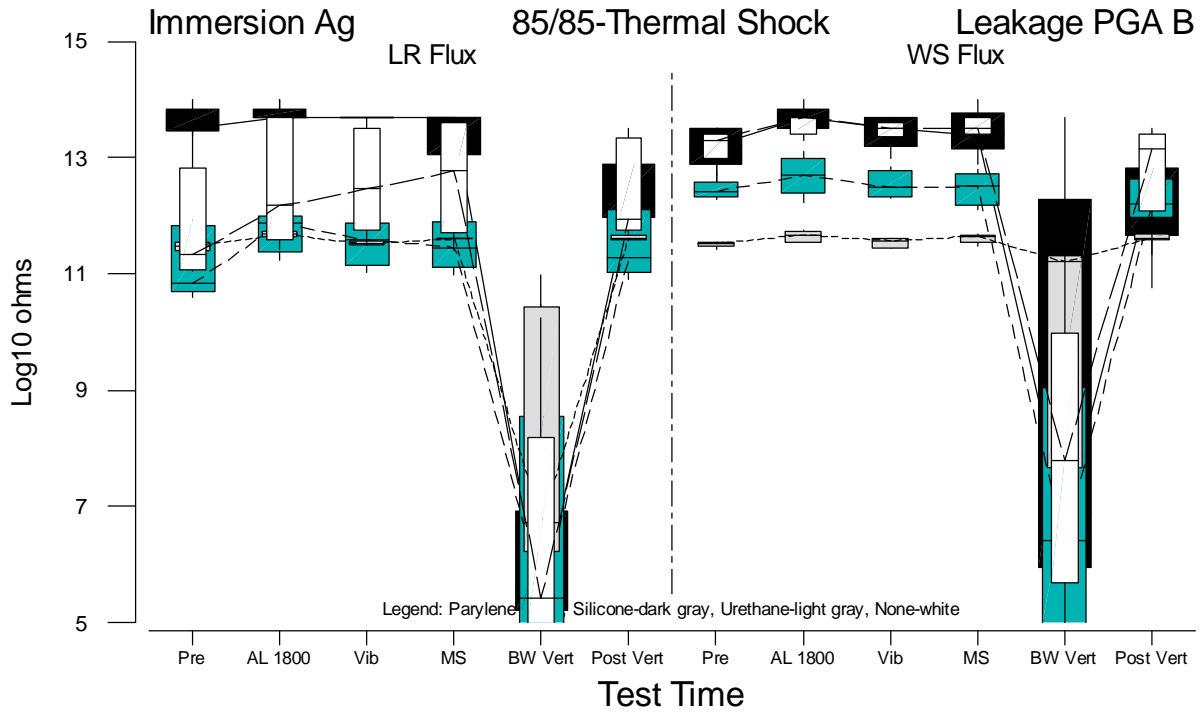


Figure J.79 Boxplots of PGA-B Leakage Measurements for Immersion Ag versus Test Time

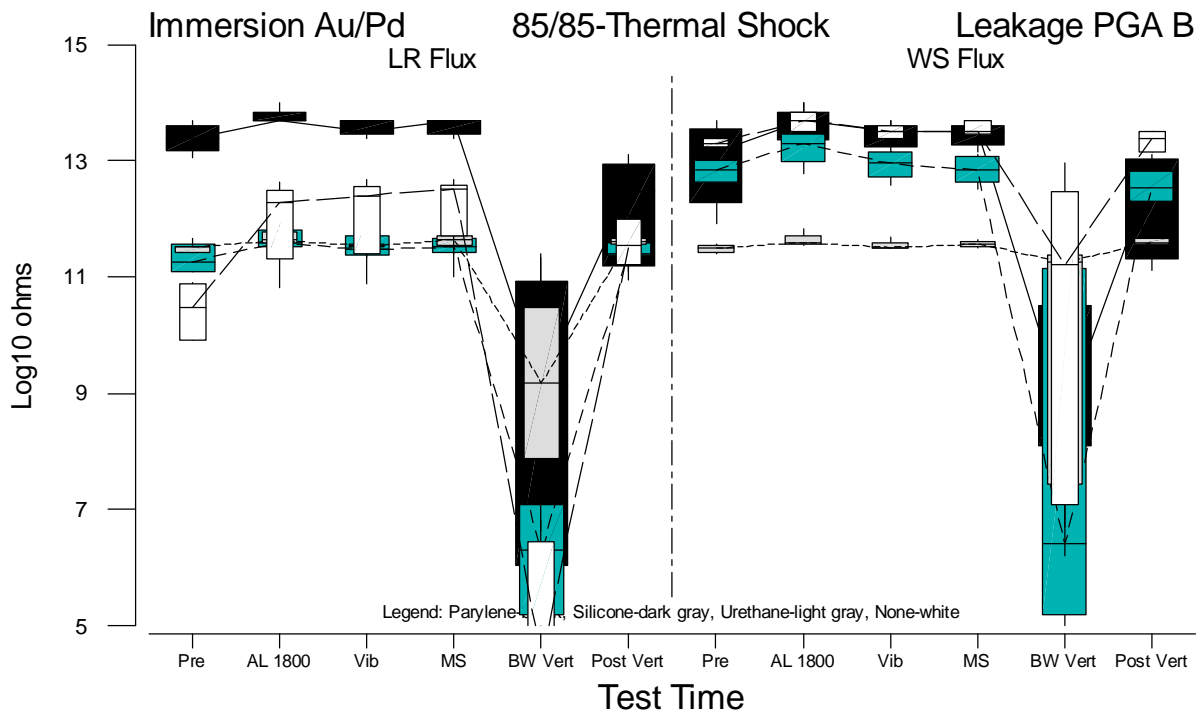


Figure J.80 Boxplots of PGA-B Leakage Measurements for Immersion Au/Pd versus Test Time

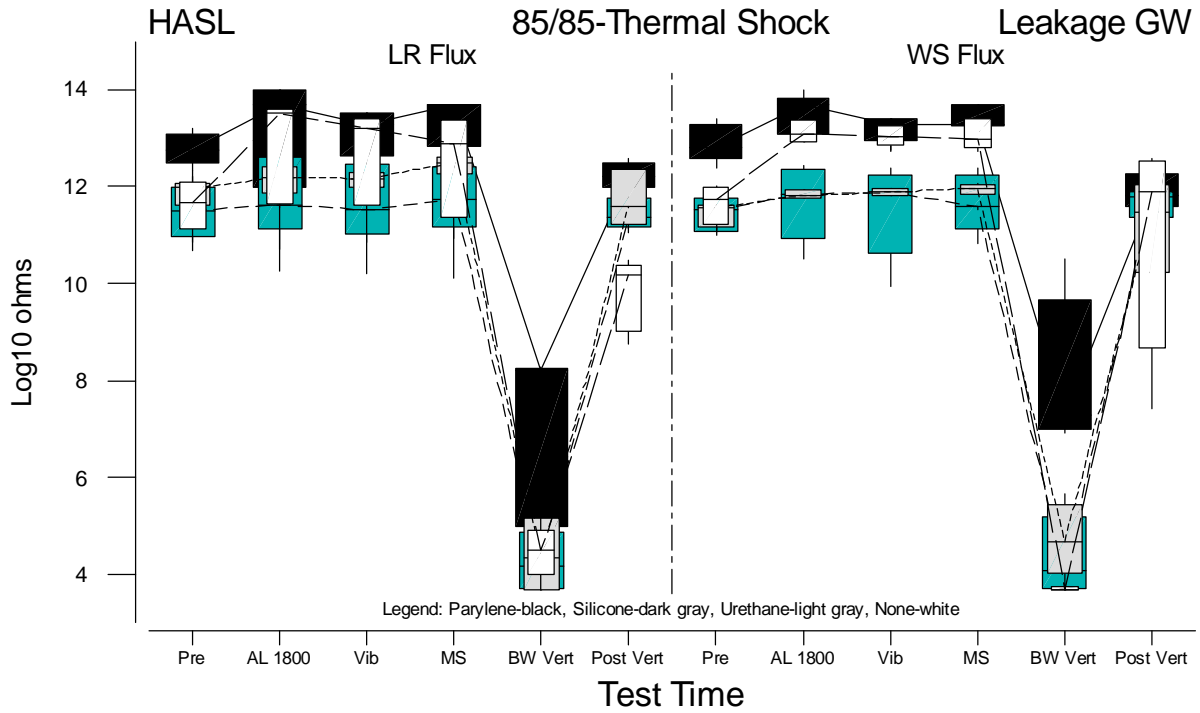


Figure J.81 Boxplots of Gull Wing Leakage Measurements for HASL versus Test Time

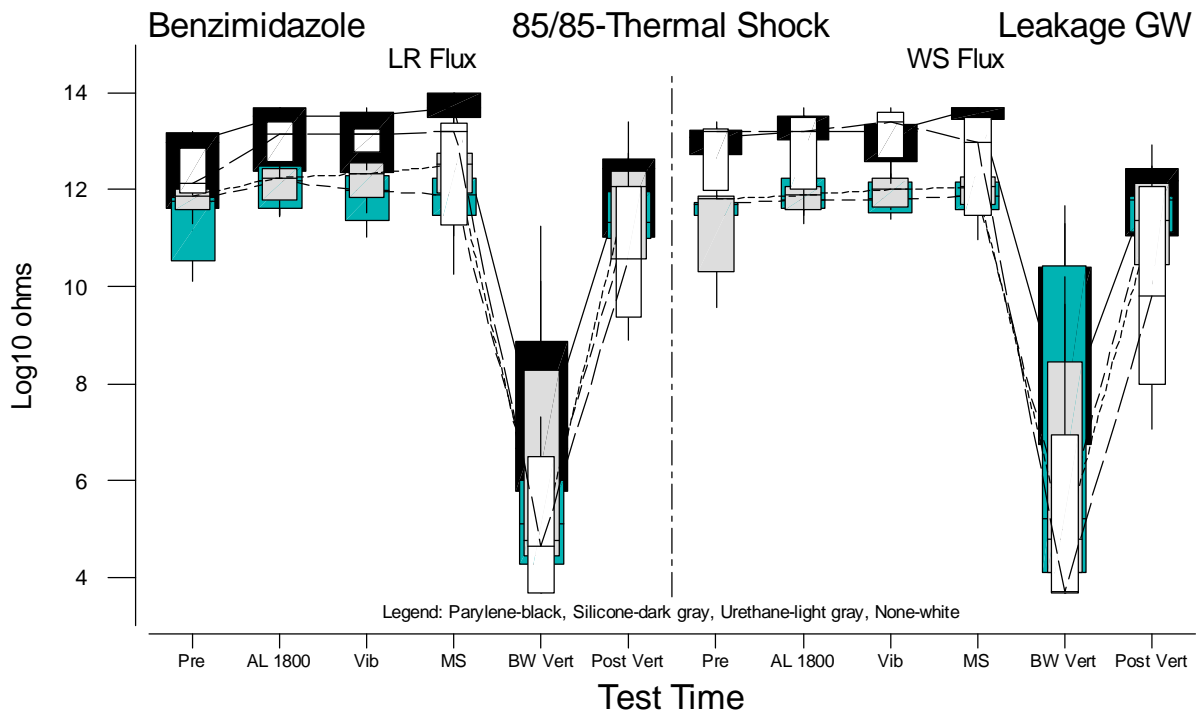


Figure J.82 Boxplots of Gull Wing Leakage Measurements for Benzimidazole versus Test Time

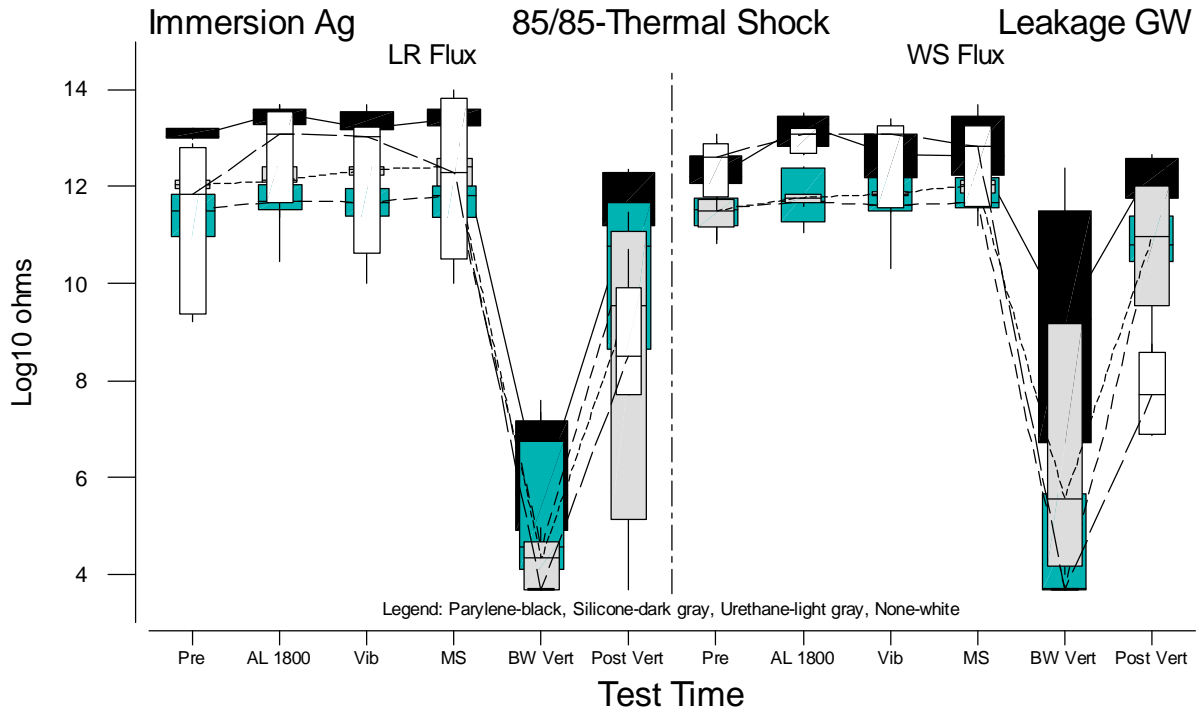


Figure J.83 Boxplots of Gull Wing Leakage Measurements for Immersion Ag versus Test Time

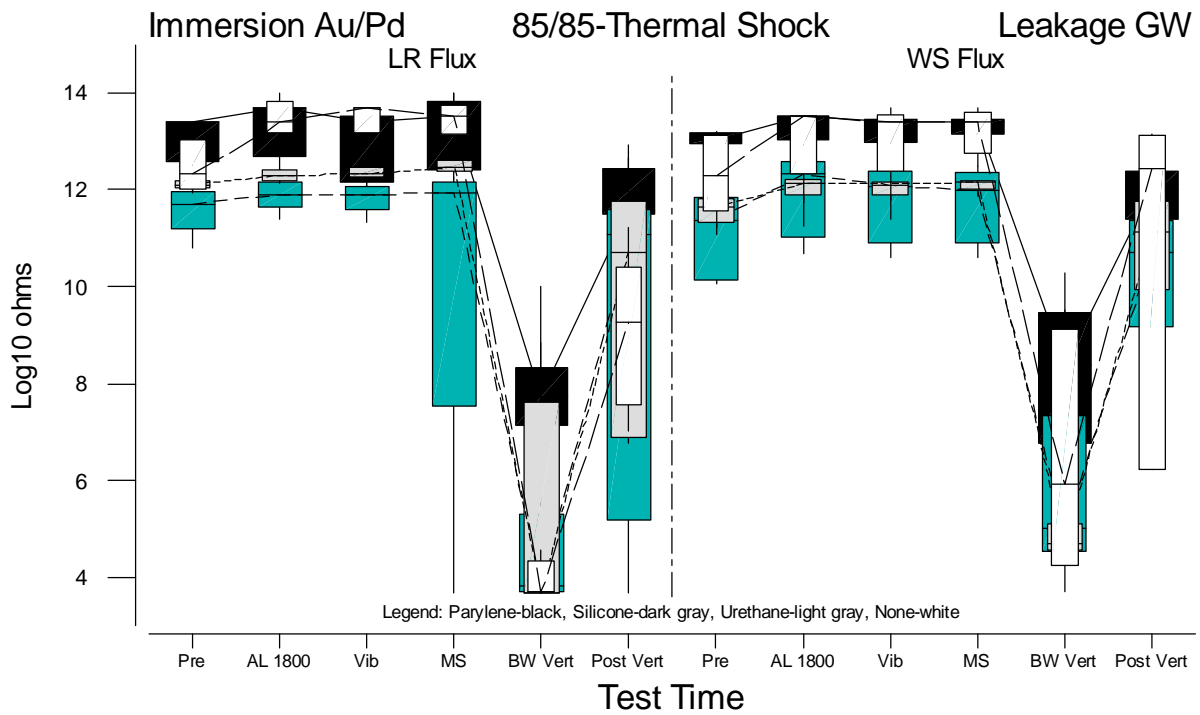


Figure J.84 Boxplots of Gull Wing Leakage Measurements for Immersion Au/Pd vs. Test Time

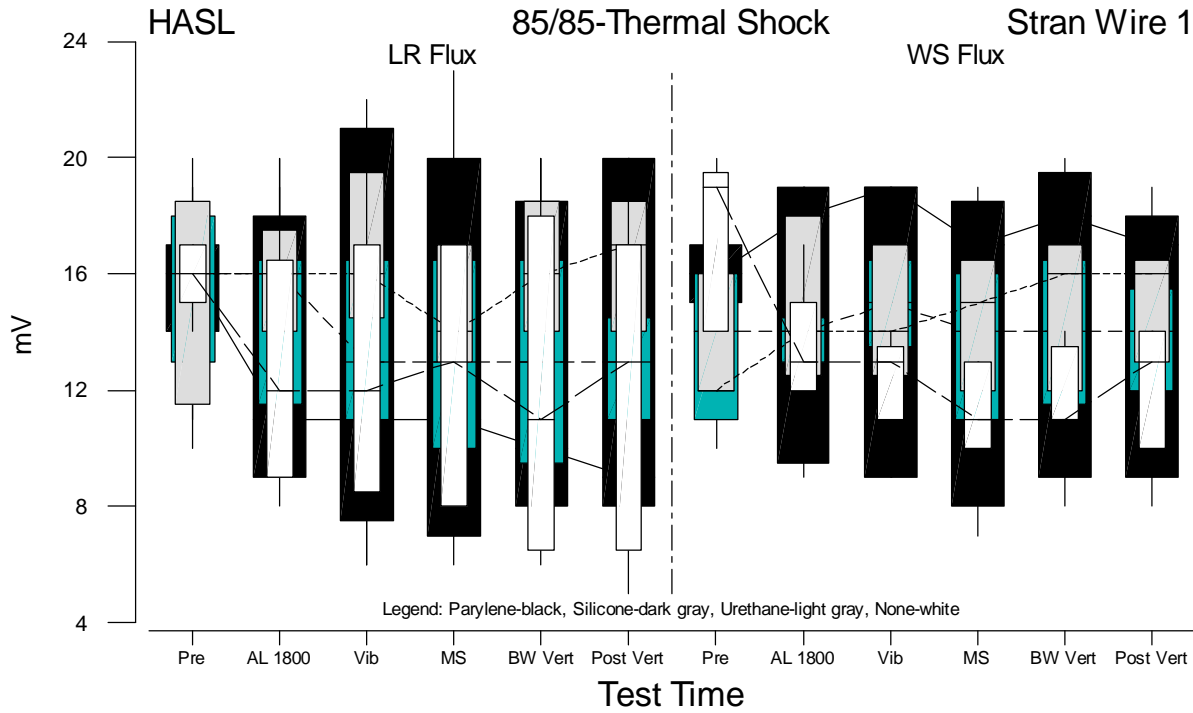


Figure J.85 Boxplots of Stranded Wire 1 Voltage Measurements for HASL versus Test Time

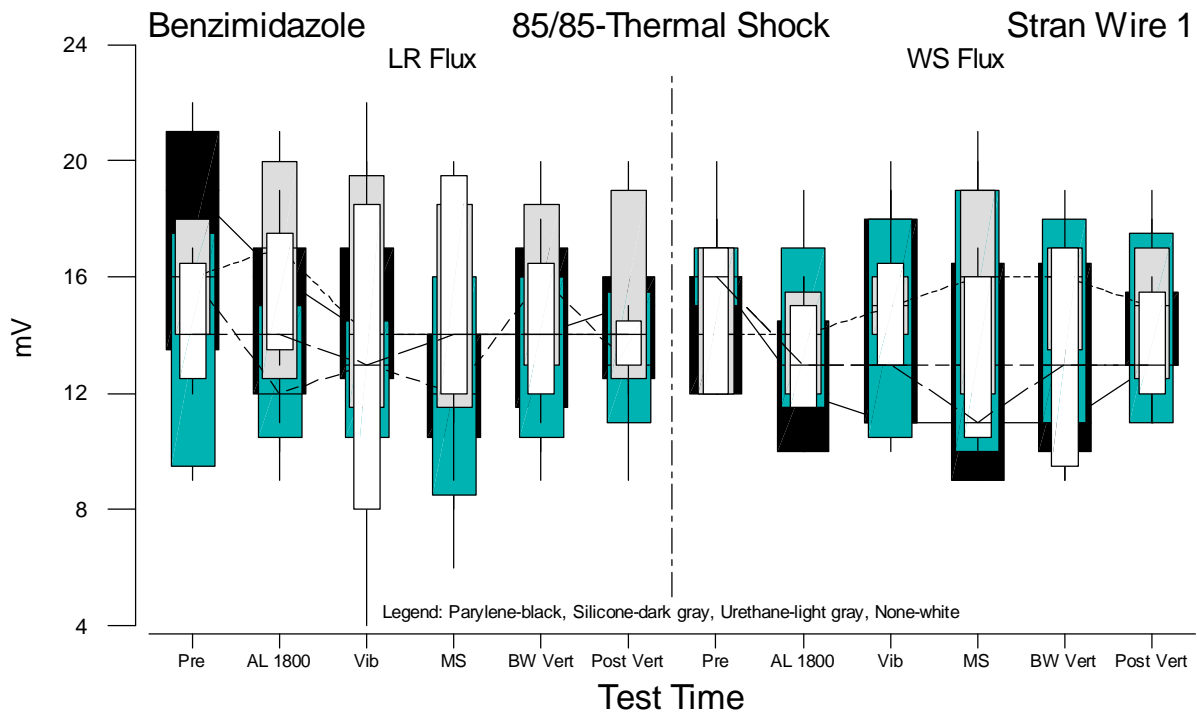


Figure J.86 Boxplots of Stranded Wire 1 Voltage Measurements for Benzimidazole versus Test Time

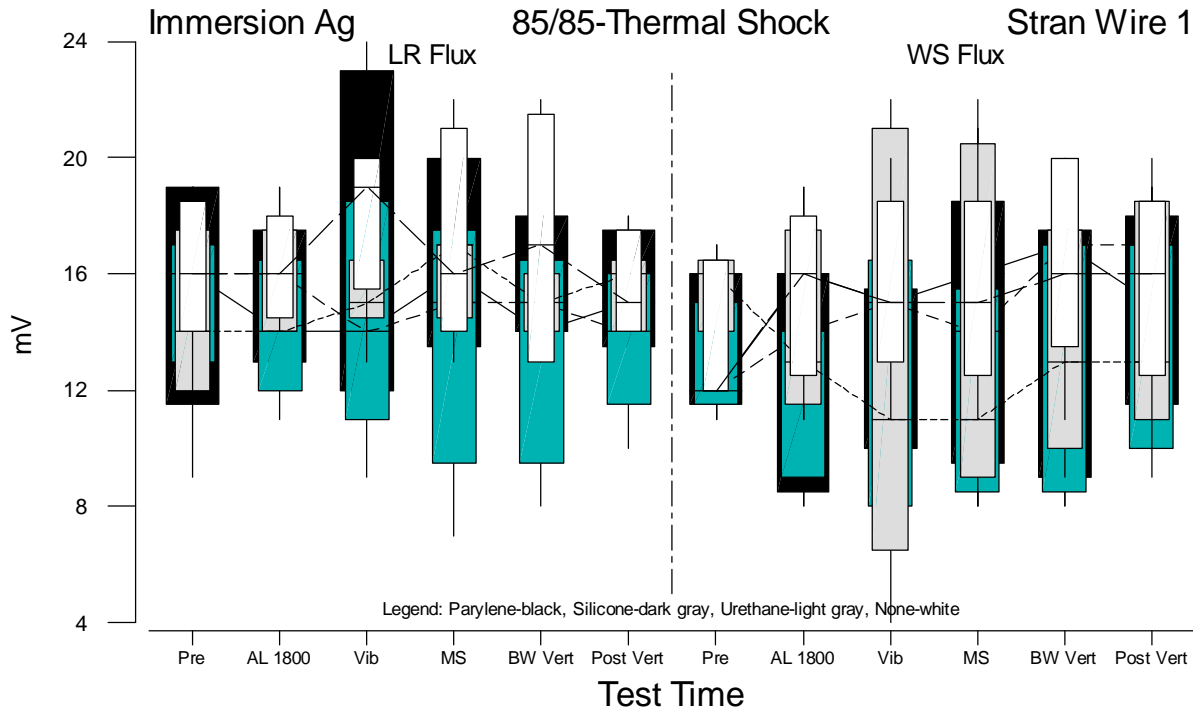


Figure J.87 Boxplots of Stranded Wire 1 Voltage Measurements for Immersion Ag versus Test Time

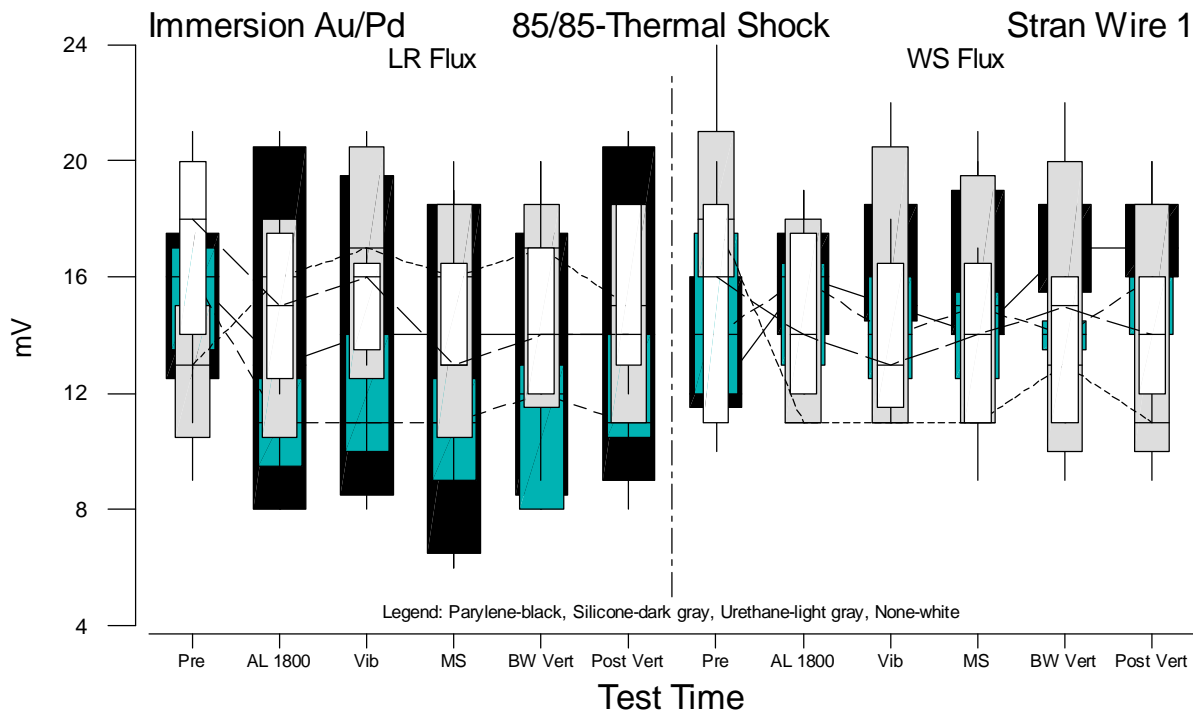


Figure J.88 Boxplots of Stranded Wire 1 Voltage Measurements for Immersion Au/Pd versus Test Time

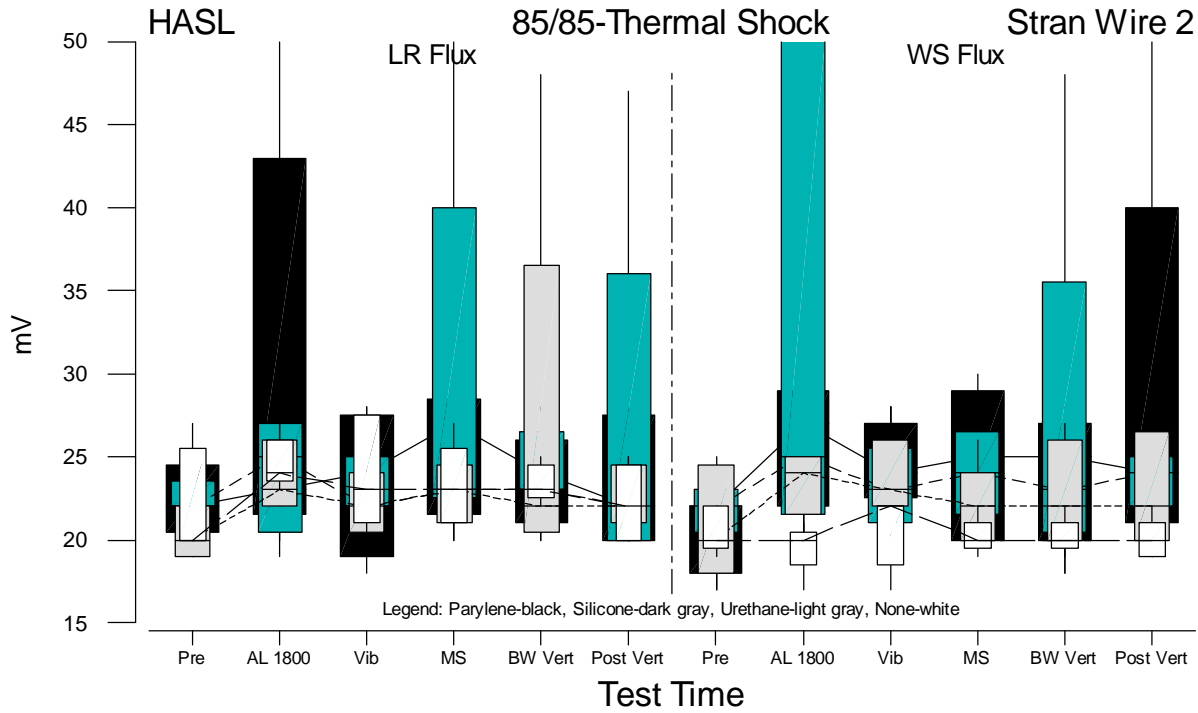


Figure J.89 Boxplots of Stranded Wire 2 Voltage Measurements for HASL versus Test Time

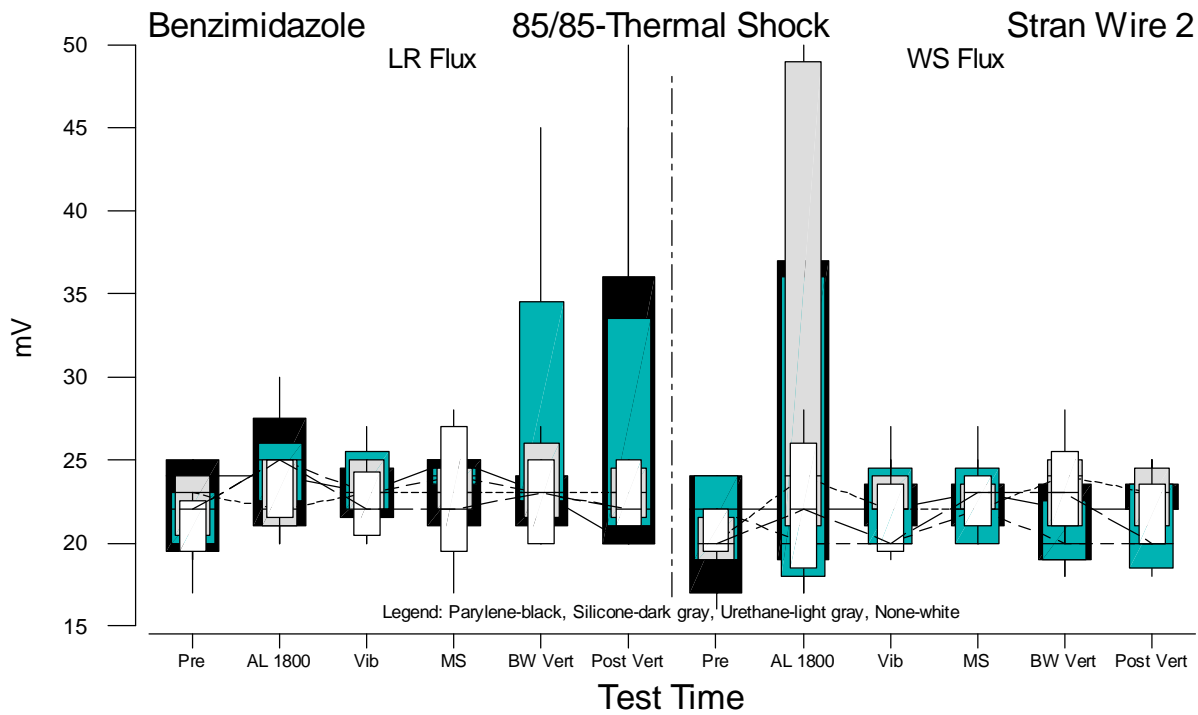


Figure J.90 Boxplots of Stranded Wire 2 Voltage Measurements for Benzimidazole versus Test Time

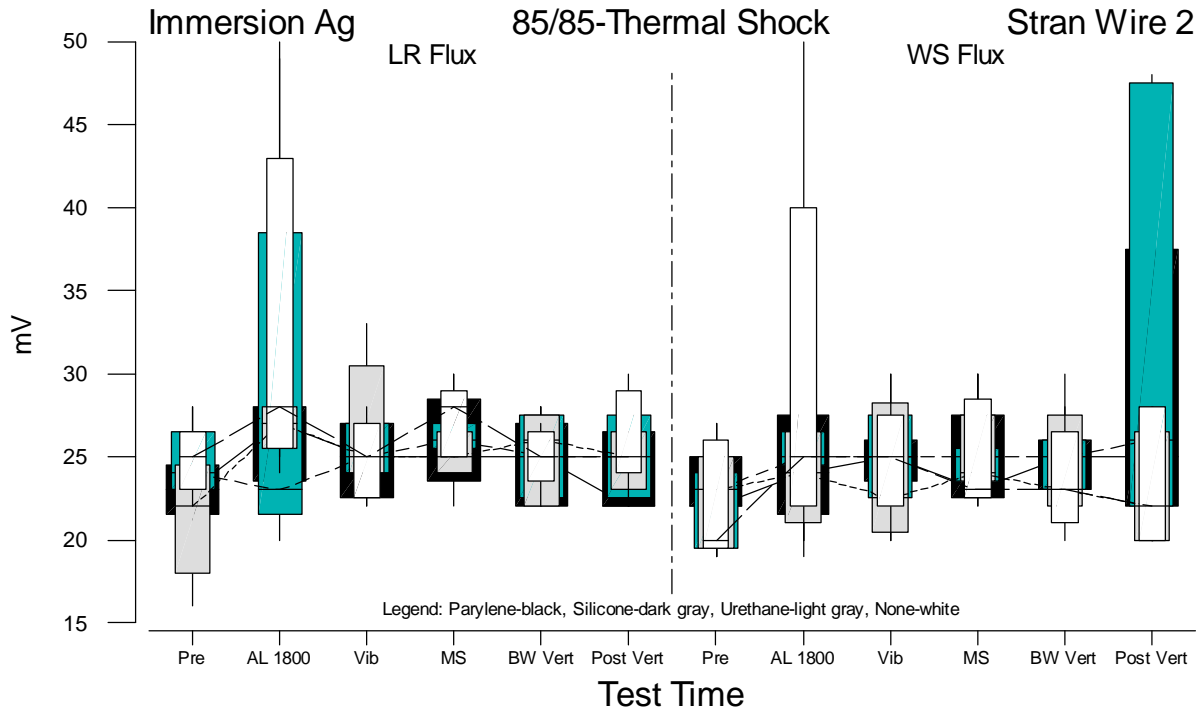


Figure J.91 Boxplots of Stranded Wire 2 Voltage Measurements for Immersion Ag versus Test Time

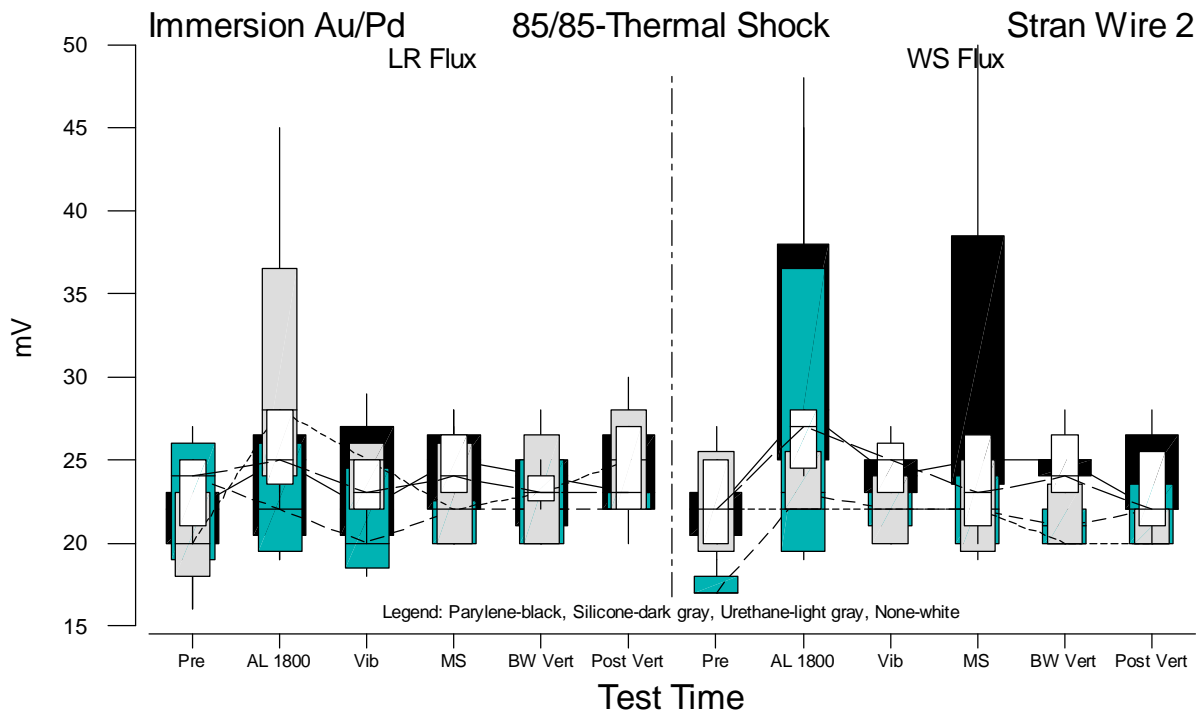


Figure J.92 Boxplots of Stranded Wire 2 Voltage Measurements for Immersion Au/Pd versus Test Time