

# Appendix C

## SAR System Validation Data

*of*

*Product Name*

**Super Speed N Wireless USB Adapter**

*Model*

**WL-160N**



## 1 2450 MHz System Validation Data

Report Date : 19-Mar-2007  
Measurement Date : 19-Mar-2007

### Product Data

Device Name : Dipole-2450  
Serial No. : Validation  
Type : Dipole  
Model : Standard  
Frequency : 2450.00 MHz  
Max. Transmit Pwr : 1 W  
Drift Time : 0 min(s)  
Length : 51.5 mm  
Width : 3.6 mm  
Depth : 30.4 mm  
Antenna Type : Internal  
Power Drift-Start : 71.118 W/kg  
Power Drift-Finish: 70.697 W/kg  
Power Drift (%) : -0.598

### Phantom Data

Name : APREL-Uni  
Type : Uni-Phantom  
Size (mm) : 280 x 280 x 200  
Location : Center

### Tissue Data

Type : HEAD  
Serial No. : 2450HEAD  
Frequency : 2450.00 MHz  
Last Calib. Date : 19-Mar-2007  
Temperature : 21.40 °C  
Ambient Temp. : 21.50 °C  
Humidity : 48.00 RH%  
Epsilon : 39.81 F/m  
Sigma : 1.77 S/m  
Density : 1000.00 kg/cu. m

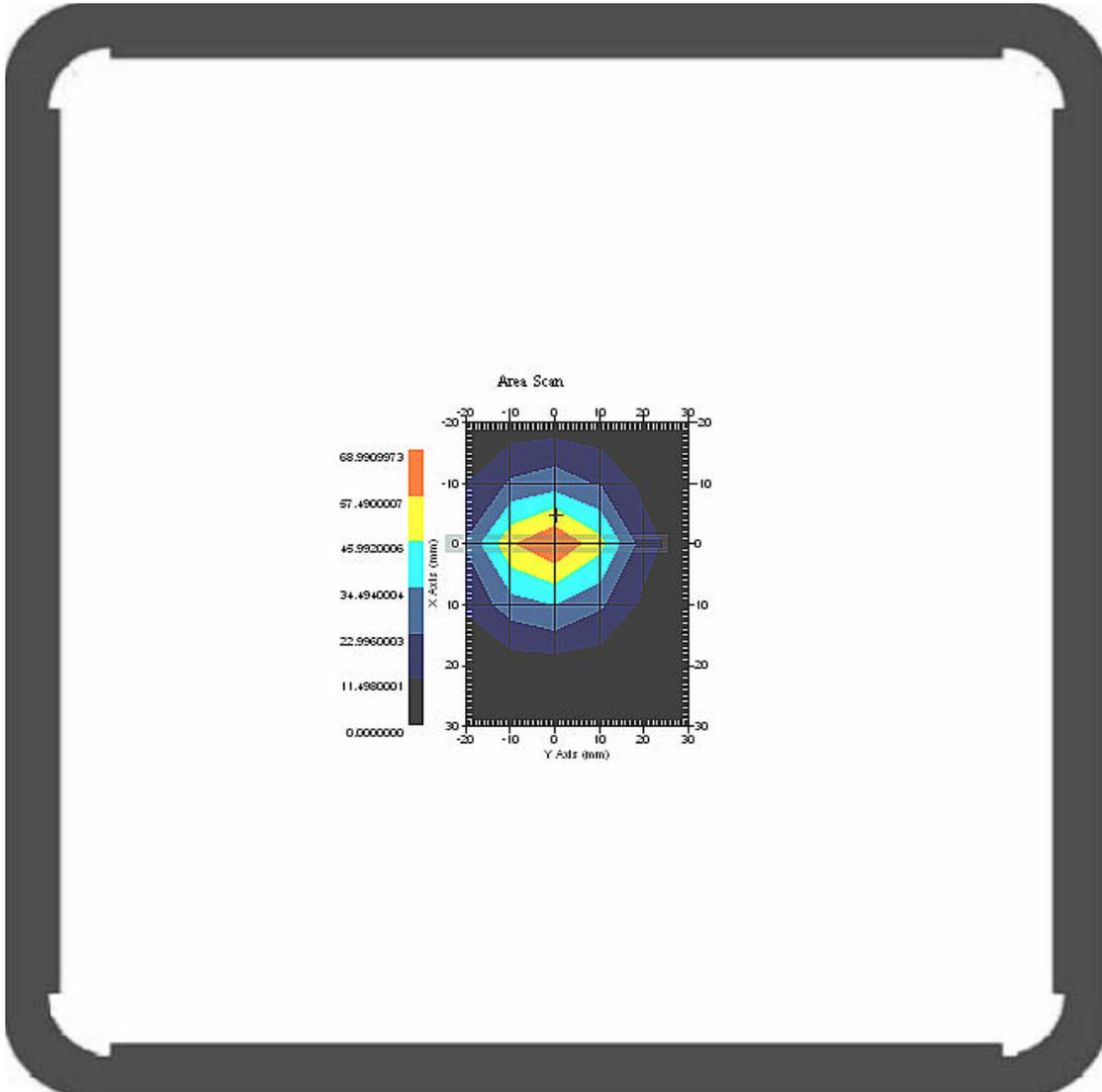
### Probe Data

Name : E-field Probe  
Model : ALS-E-020  
Type : E-Field Triangle  
Serial No. : 266  
Last Calib. Date : 22-Jun-2006  
Frequency : 2450.00 MHz  
Duty Cycle Factor: 1  
Conversion Factor: 4.9  
Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
Compression Point: 95.00 mV  
Offset : 1.56 mm

### Measurement Data

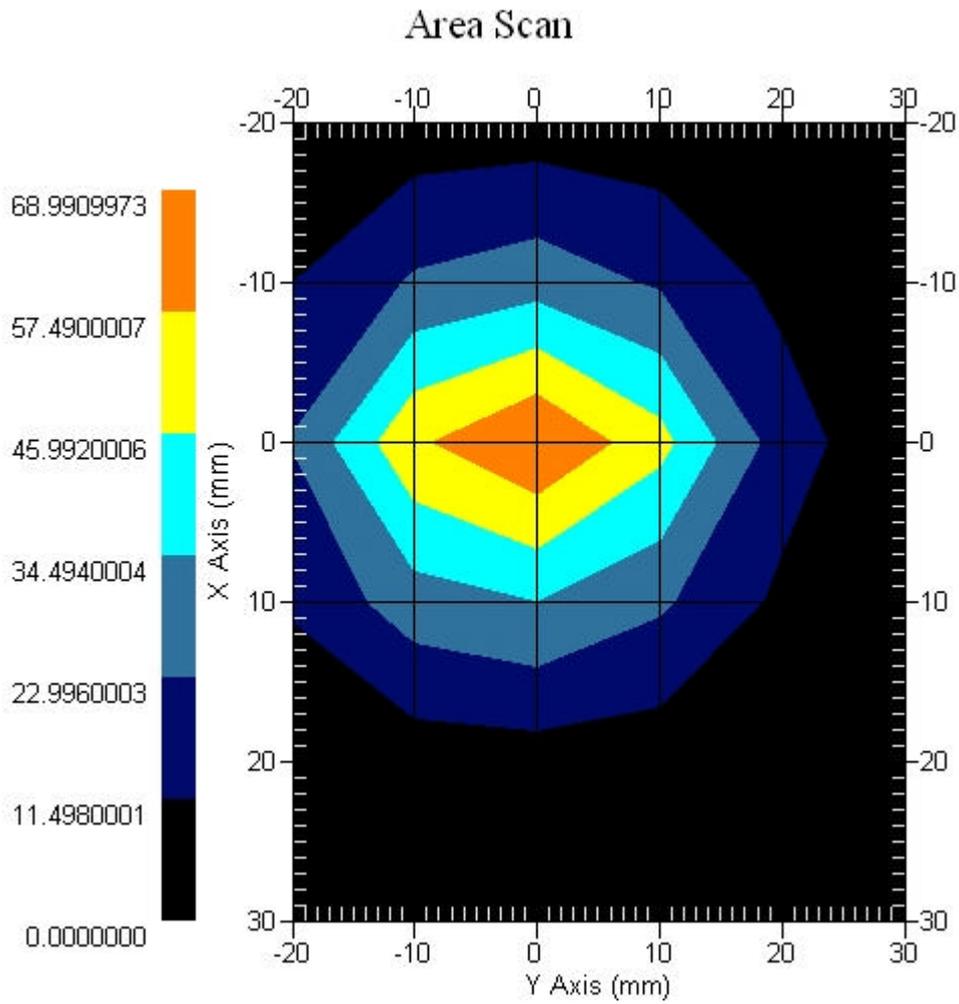
Crest Factor : 1  
Tissue Temp. : 21.40 °C  
Ambient Temp. : 21.50 °C  
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm  
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Channel : Mid



1 gram SAR value : 52.024 W/kg  
10 gram SAR value : 24.981 W/kg  
Area Scan Peak SAR : 68.991 W/kg  
Zoom Scan Peak SAR : 121.431 W/kg

## Area Scan Plot



SAR-Z Axis  
at Hotspot x:0.00 y:0.00

