

# **Appendix C**

## **SAR System Validation Data**

*of*

*Product Name*

**802.11a/b/g Wireless Cardbus Adpater (Super AG)**

*Model*

**IPN-W100CB**

## 1 2450 MHz System Validation Data

Report Date : 20-Nov-2006  
Measurement Date : 20-Nov-2006

### 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 : 65.814 W/kg  
Power Drift-Finish: 63.675 W/kg  
Power Drift (%) : -3.250

### 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 : 20-Nov-2006  
Temperature : 22.10 °C  
Ambient Temp. : 22.40 °C  
Humidity : 52.00 RH%  
Epsilon : 39.21 F/m  
Sigma : 1.64 S/m  
Density : 1000.00 kg/cu. m

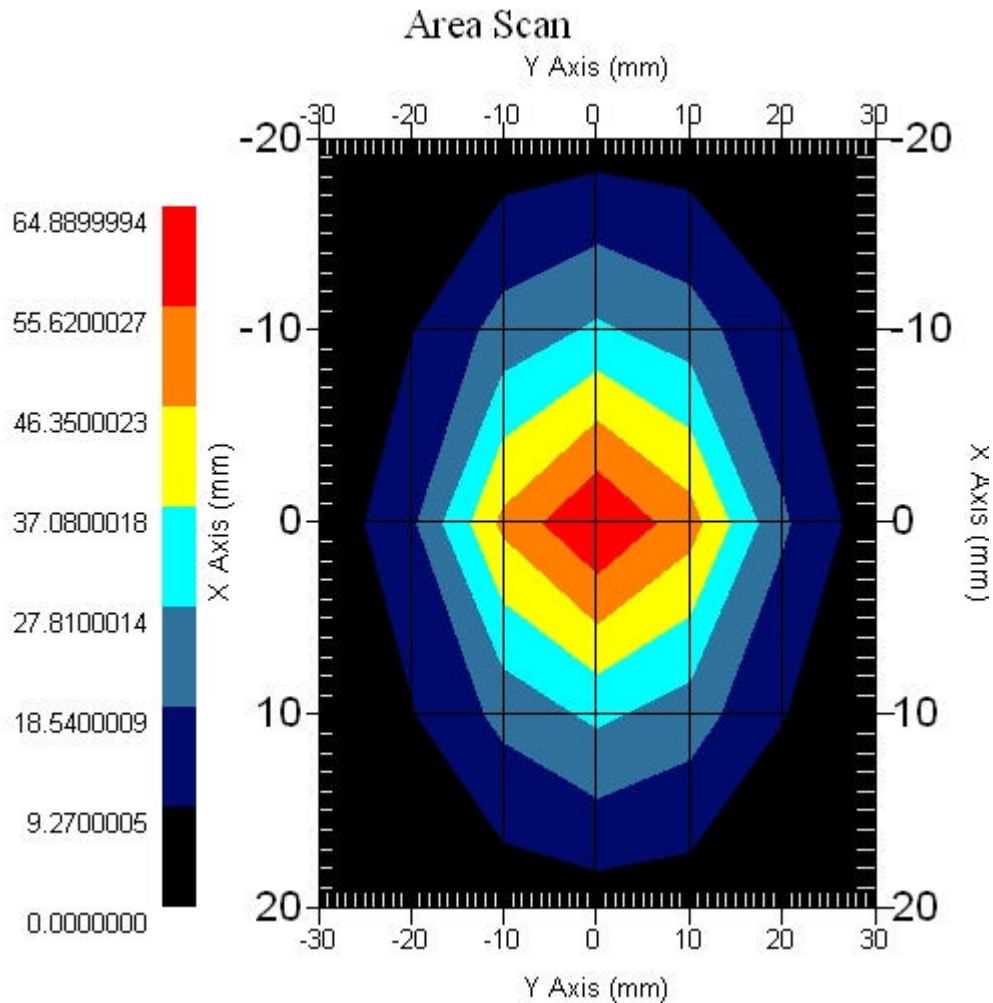
### Probe Data

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

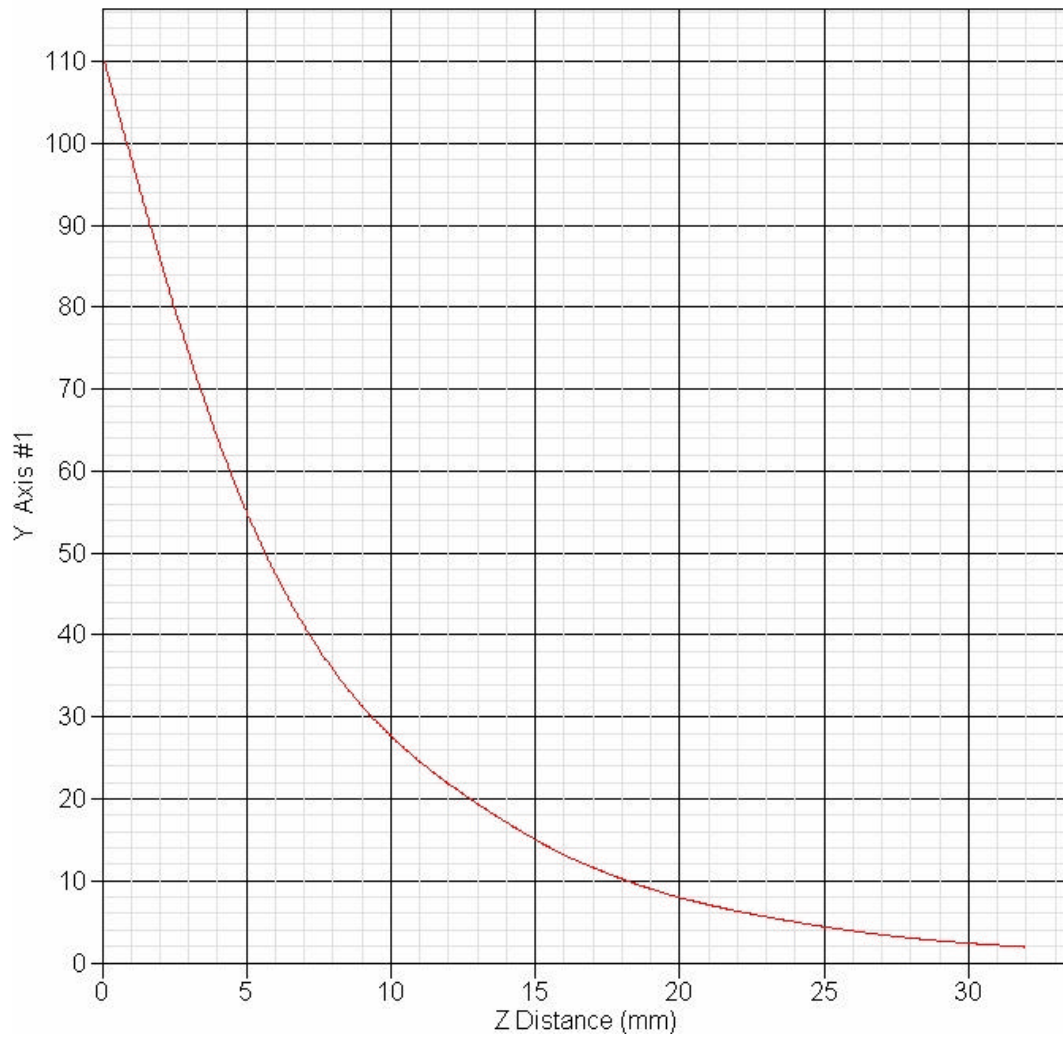
Crest Factor : 1  
Tissue Temp. : 22.10 °C  
Ambient Temp. : 22.40 °C  
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm  
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Channel : Mid - 2450MHz



1 gram SAR value : 53.242 W/kg  
10 gram SAR value : 24.313 W/kg  
Area Scan Peak SAR : 64.890 W/kg  
Zoom Scan Peak SAR : 110.960 W/kg

**SAR-Z Axis**  
at Hotspot x:0.20 y:-2.20



## 2 5200 MHz System Validation Data

Report Date : 21-Nov-2006  
Measurement Date : 21-Nov-2006

### Product Data

Device Name : Dipole-5200  
Serial No. : Validation  
Type : Dipole  
Model : Standard  
Frequency : 5200.00 MHz  
Max. Transmit Pwr : 1 W  
Drift Time : 0 min(s)  
Length : 21.4 mm  
Width : 3.6 mm  
Depth : 89.8 mm  
Antenna Type : Internal  
Power Drift-Start : 75.662 W/kg  
Power Drift-Finish: 74.243 W/kg  
Power Drift (%) : -1.876

### Phantom Data

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

### Tissue Data

Type : HEAD  
Serial No. : 5200-H-AU-18  
Frequency : 5200.00 MHz  
Last Calib. Date : 21-Nov-2006  
Temperature : 21.80 °C  
Ambient Temp. : 22.00 °C  
Humidity : 55.00 RH%  
Epsilon : 35.12 F/m  
Sigma : 4.78 S/m  
Density : 1000.00 kg/cu. m

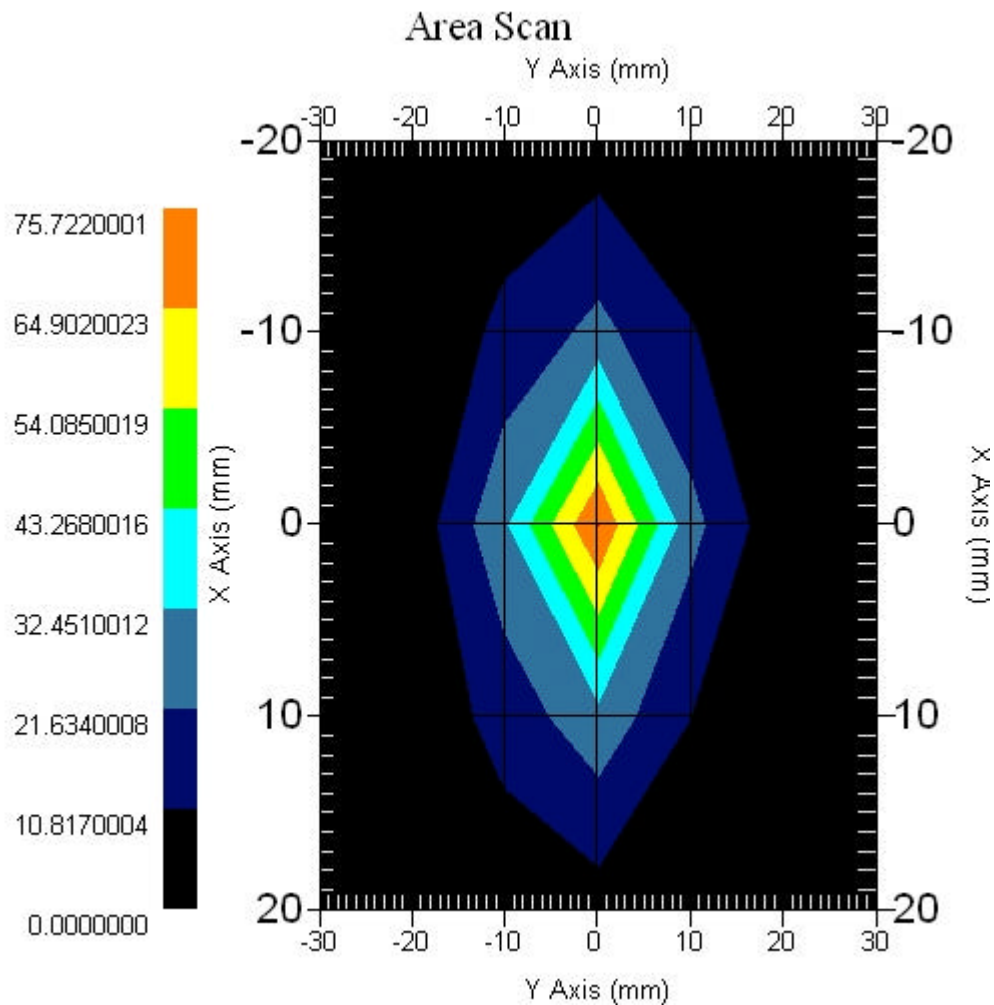
### Probe Data

Name : E-field Probe  
Model : ALS-E-020  
Type : E-Field Triangle  
Serial No. : 266  
Last Calib. Date : 22-Jun-2006  
Frequency : 5200.00 MHz  
Duty Cycle Factor: 1  
Conversion Factor: 3.82  
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. : 21.80 °C  
Ambient Temp. : 22.00 °C  
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm  
Zoom Scan : 9x9x7 : Measurement x=4mm, y=4mm, z=5mm

Channel : Mid - 5200MHz



1 gram SAR value : 65.958 W/kg  
10 gram SAR value : 19.711 W/kg  
Area Scan Peak SAR : 75.722 W/kg  
Zoom Scan Peak SAR : 180.148 W/kg

**SAR-Z Axis**  
at Hotspot x:0.30 y:-6.30

