

Appendix C

SAR System Validation Data

of

Product Name

MiniPCIexpress 802.11 b/g transceiver

Model

AR5BHB63-L

1 < >MHz System Validation Data

Report Date : 19-Aug-2008
Measurement Date : 19-Aug-2008

Product Data

Device Name : validation
Serial No. : 2450
Type : Dipole
Model : 2450
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 0 min(s)
Length : 51.5 mm
Width : 3.6 mm
Depth : 5 mm
Antenna Type : Internal
Power Drift-Start : 13.087 W/kg
Power Drift-Finish: 13.055 W/kg
Power Drift (%) : -0.246

Phantom Data

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

Tissue Data

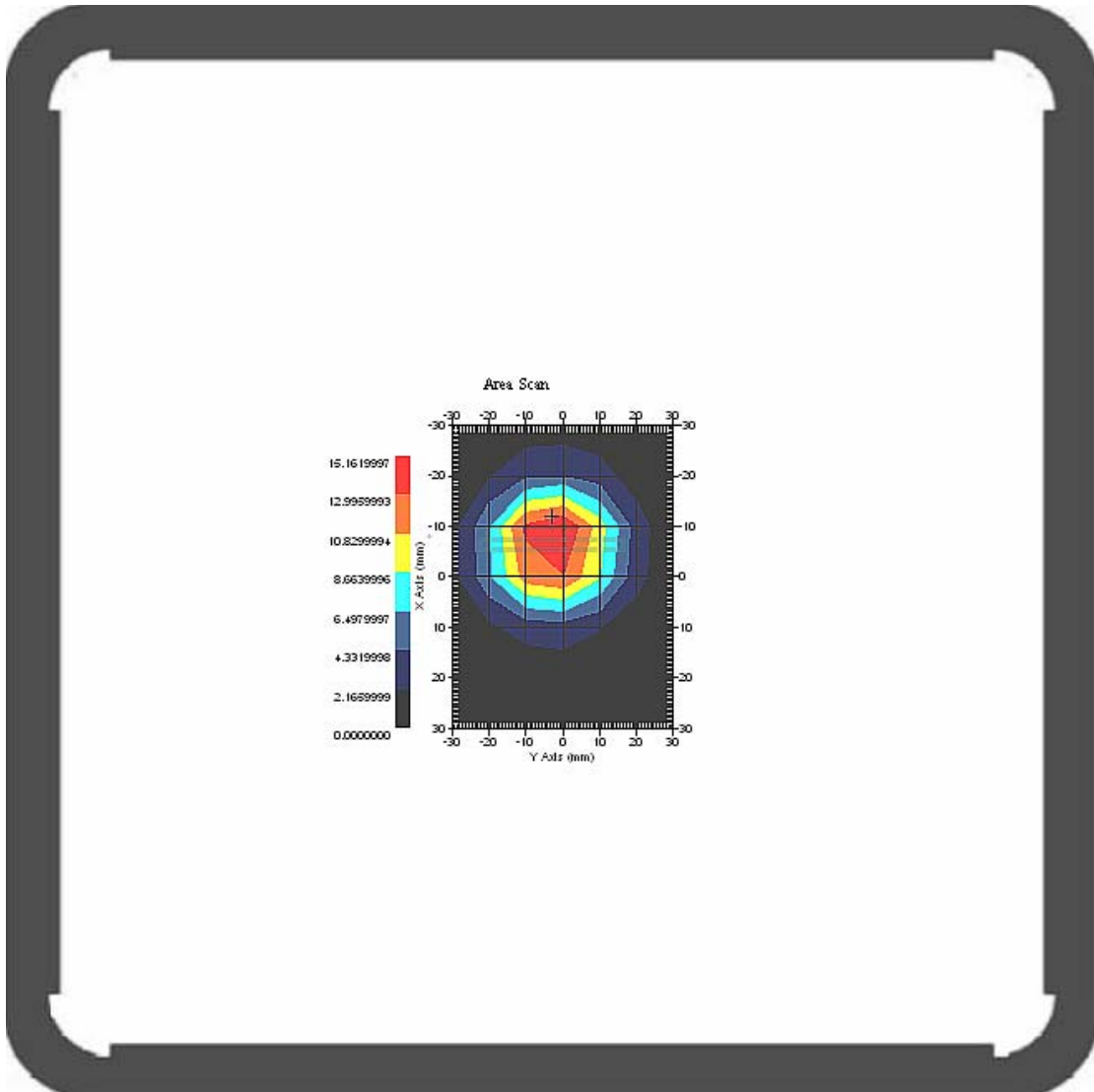
Type : HEAD
Serial No. : 2450_Head
Frequency : 2450.00 MHz
Last Calib. Date : 19-Aug-2008
Temperature : 22.30 °C
Ambient Temp. : 23.00 °C
Humidity : 60.00 RH%
Epsilon : 40.12 F/m
Sigma : 1.78 S/m
Density : 1000.00 kg/cu. m

Probe Data

Name : E-field Probe
Model : ALS-E-020
Type : E-Field Triangle
Serial No. : 266
Last Calib. Date : 10-Jul-2008
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 5
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

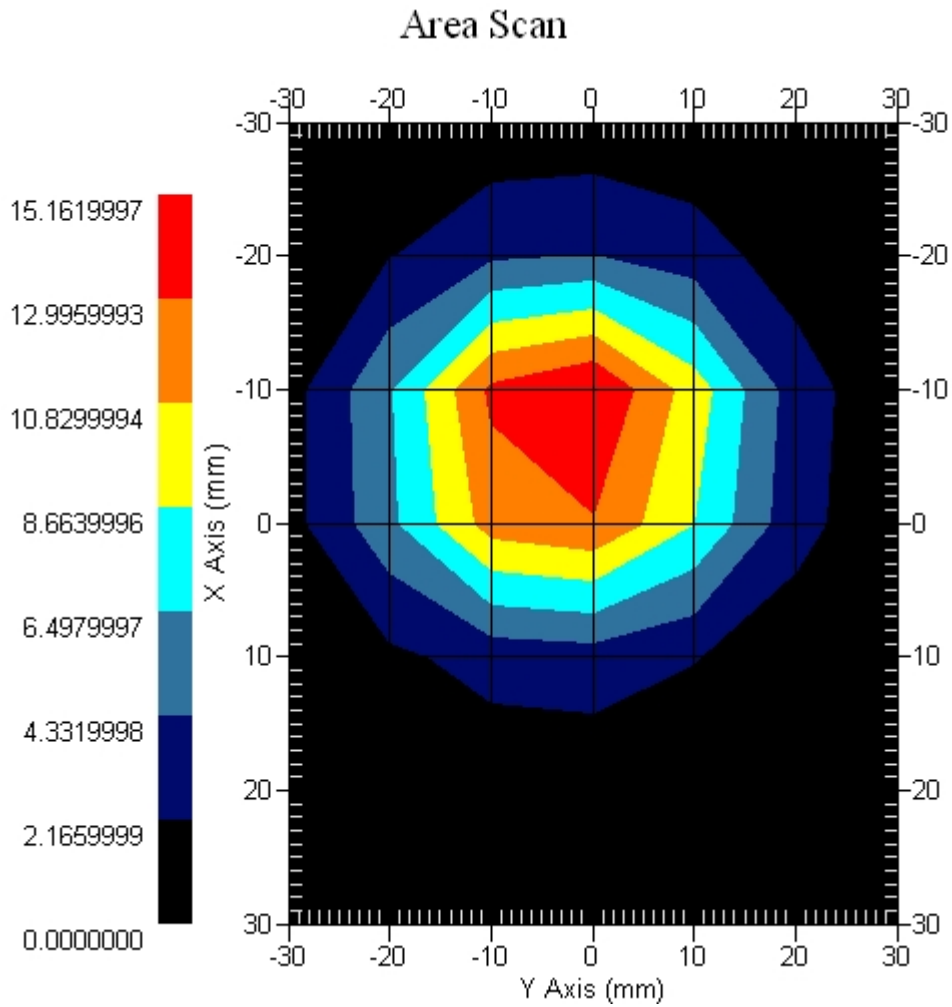
Measurement Data

Crest Factor : 1
Scan Type : Complete
Area Scan : 7x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm



1 gram SAR value : 12.986 W/kg
10 gram SAR value : 6.110 W/kg
Area Scan Peak SAR : 15.162 W/kg
Zoom Scan Peak SAR : 24.621 W/kg

Area Scan Plot



SAR-Z Axis
at Hotspot x:-9.93 y:-0.08

