

Appendix C

SAR System Validation Data

of

Product Name

Portable Data Collection Terminal

Model

PA500

1 2450 MHz System Validation Data

Report Date : 21-Mar-2007
Measurement Date : 21-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 : 64.287 W/kg
Power Drift-Finish : 63.155 W/kg
Power Drift (%) : -1.792

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 : 21-Mar-2007
Temperature : 21.10 °C
Ambient Temp. : 21.30 °C
Humidity : 53.00 RH%
Epsilon : 41.01 F/m
Sigma : 1.73 S/m
Density : 1000.00 kg/cu. m

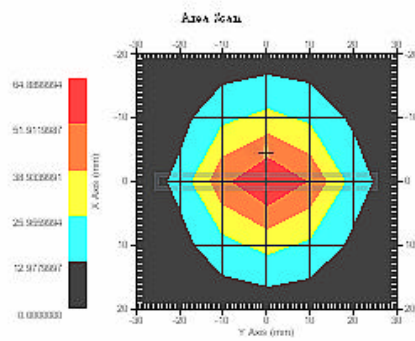
Probe Data

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

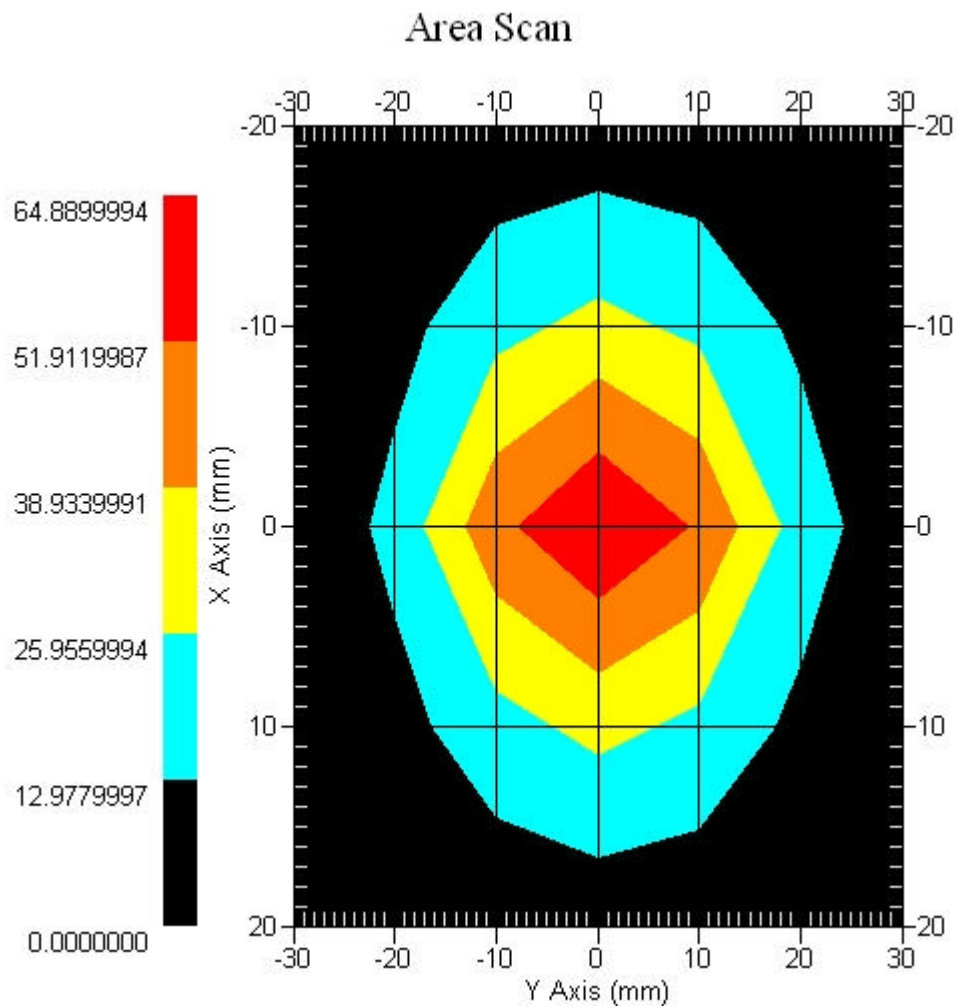
Crest Factor : 1
Tissue Temp. : 21.10 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Channel : Mid



1 gram SAR value : 53.786 W/kg
10 gram SAR value : 24.145 W/kg
Area Scan Peak SAR : 65.021 W/kg
Zoom Scan Peak SAR : 116.244 W/kg

Area Scan Plot



SAR-Z Axis
at Hotspot x:-4.80 y:2.85

