

Appendix C

SAR System Validation Data

of

Product Name

Notebook Personal Computer

Model

V100

(With WLAN & Bluetooth Module)

1 2450 MHz System Validation Data

Report Date : 25-Jan-2007
Measurement Date : 25-Jan-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 : 69.128 W/kg
Power Drift-Finish: 67.707 W/kg
Power Drift (%) : -2.314

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 : 25-Jan-2007
Temperature : 22.00 °C
Ambient Temp. : 22.30 °C
Humidity : 50.00 RH%
Epsilon : 40.12 F/m
Sigma : 1.73 S/m
Density : 1000.00 kg/cu. m

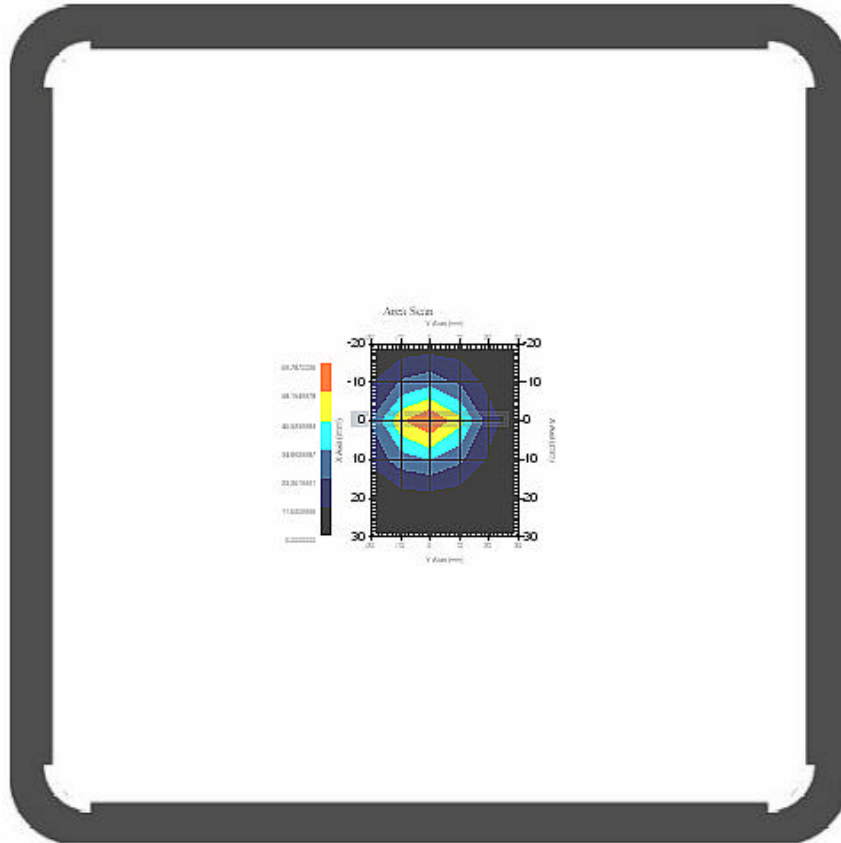
Probe Data

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

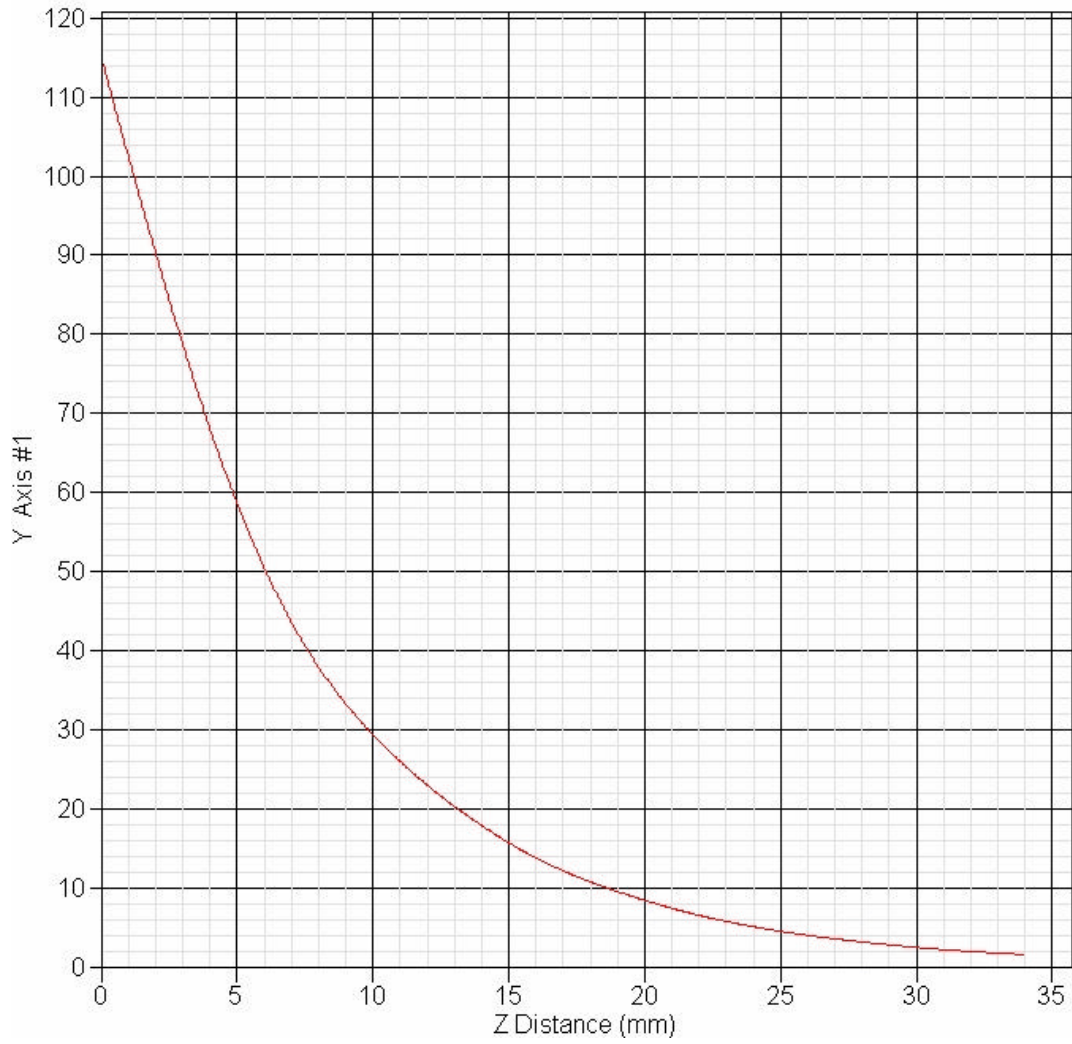
Crest Factor : 1
Tissue Temp. : 22.00 °C
Ambient Temp. : 22.30 °C
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x11 : Measurement x=8mm, y=8mm, z=3mm

Channel : Mid - 2450MHz



1 gram SAR value : 53.697 W/kg
10 gram SAR value : 23.995 W/kg
Area Scan Peak SAR : 69.787 W/kg
Zoom Scan Peak SAR : 115.101 W/kg

SAR-Z Axis
at Hotspot x:0.30 y:-2.30



2 5200 MHz System Validation Data

Report Date : 29-Jan-2007
Measurement Date : 29-Jan-2007

Product Data

Device Name : Dipole-5200
Serial No. : 230-00802
Type : Dipole
Model : ALS-D-5200-S-2
Frequency : 5200.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 23.4 mm
Width : 3.6 mm
Depth : 15.4 mm
Antenna Type : Internal
Power Drift-Start : 78.465 W/kg
Power Drift-Finish: 79.927 W/kg
Power Drift (%) : 1.863

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 : 29-Jan-2007
Temperature : 22.30 °C
Ambient Temp. : 22.60 °C
Humidity : 50.00 RH%
Epsilon : 35.12 F/m
Sigma : 4.68 S/m
Density : 1000.00 kg/cu. m

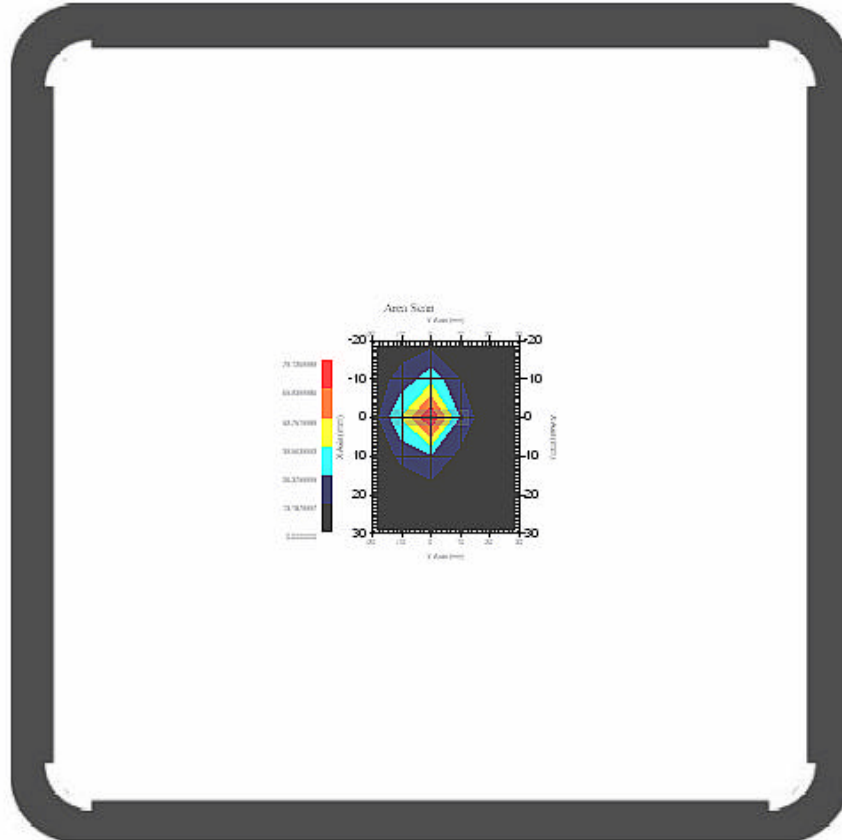
Probe Data

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

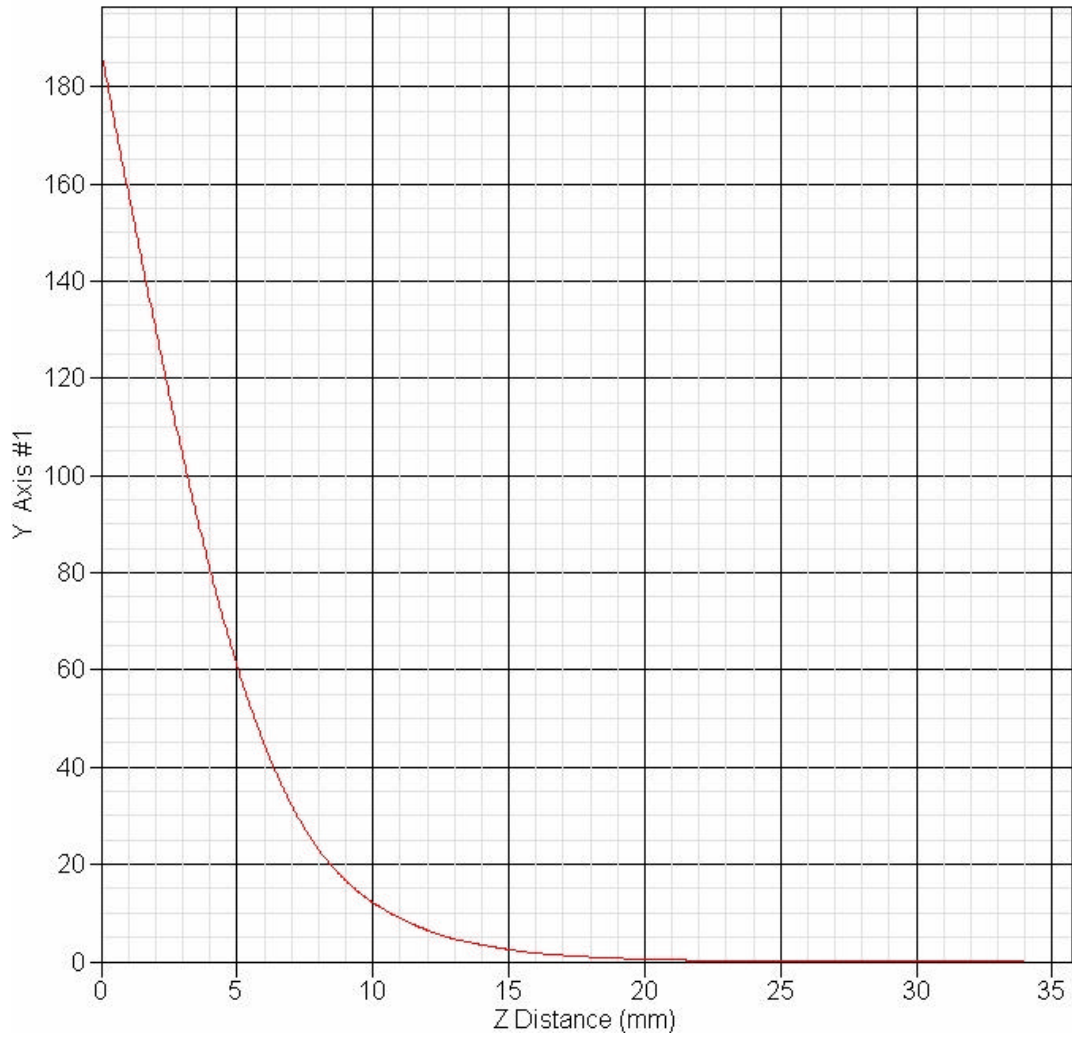
Crest Factor : 1
Tissue Temp. : 22.30 °C
Ambient Temp. : 22.60 °C
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Channel : Mid - 5200MHz



1 gram SAR value : 61.924 W/kg
10 gram SAR value : 18.927 W/kg
Area Scan Peak SAR : 79.127 W/kg
Zoom Scan Peak SAR : 187.154 W/kg

SAR-Z Axis
at Hotspot x:0.30 y:-2.20



3 5800 MHz System Validation Data

Report Date : 29-Jan-2007
Measurement Date : 29-Jan-2007

Product Data

Device Name : Dipole-5800
Serial No. : 240-00852
Type : Dipole
Model : ALS-D-5800-S-2
Frequency : 5800.00 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 : 70.882 W/kg
Power Drift-Finish: 69.931 W/kg
Power Drift (%) : -1.341

Phantom Data

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

Tissue Data

Type : HEAD
Serial No. : 5800-H-AU-19
Frequency : 5800.00 MHz
Last Calib. Date : 29-Jan-2007
Temperature : 22.30 °C
Ambient Temp. : 22.60 °C
Humidity : 50.00 RH%
Epsilon : 35.80 F/m
Sigma : 5.43 S/m
Density : 1000.00 kg/cu. m

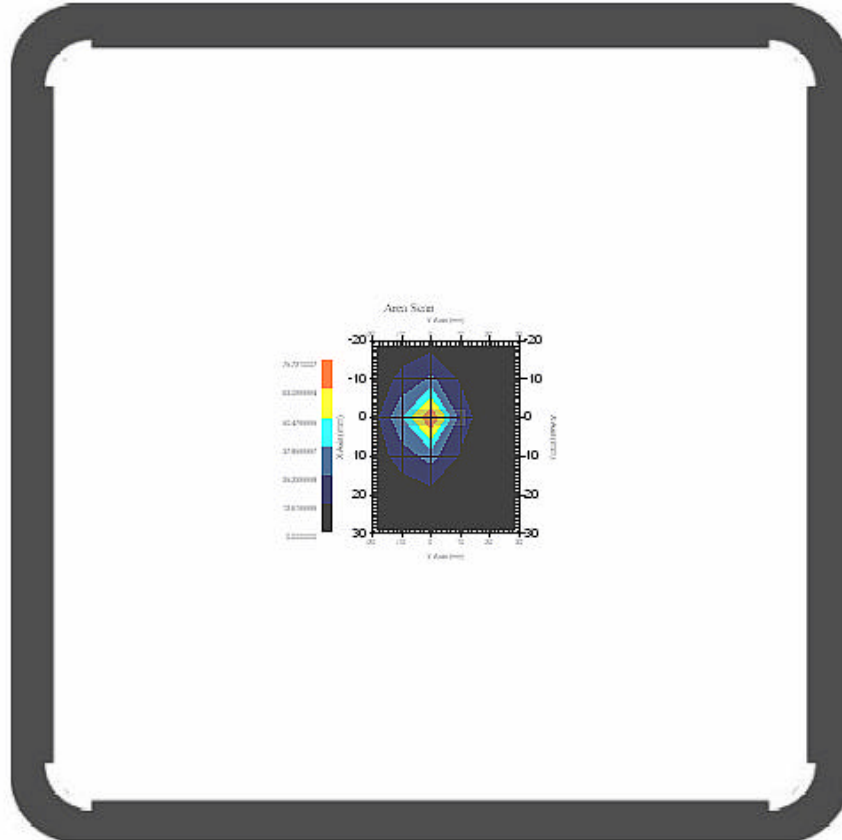
Probe Data

Name : E-field Probe
Model : ALS-E-020
Type : E-Field Triangle
Serial No. : 266
Last Calib. Date : 22-Jun-2006
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.72
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. : 22.30 °C
Ambient Temp. : 22.60 °C
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Channel : Mid - 5800MHz



1 gram SAR value : 57.710 W/kg
10 gram SAR value : 18.255 W/kg
Area Scan Peak SAR : 75.721 W/kg
Zoom Scan Peak SAR : 182.148 W/kg

SAR-Z Axis
at Hotspot x:0.30 y:-2.30

