

5800MHz System Validation Data

Measurement Date : 16-Aug-2006
 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
 Orientation : Touch
 Power Drift-Start : 69.439 W/kg
 Power Drift-Finish: 71.801 W/kg
 Power Drift (%) : 3.401
 Picture :

Phantom Data
 Name : APREL-Uni
 Type : Uni-Phantom
 Size (mm) : 280 x 280 x 200
 Serial No. : System Default
 Location : Center
 Description : uni_1

Tissue Data
 Type : HEAD
 Serial No. : 5800-H-AU-19
 Frequency : 5800.00 MHz
 Last Calib. Date : 16-Aug-2005
 Temperature : 22.40 °C
 Ambient Temp. : 22.90 °C
 Humidity : 44.00 RH%
 Epsilon : 36.42 F/m
 Sigma : 5.37 S/m
 Density : 1000.00 kg/cu. m

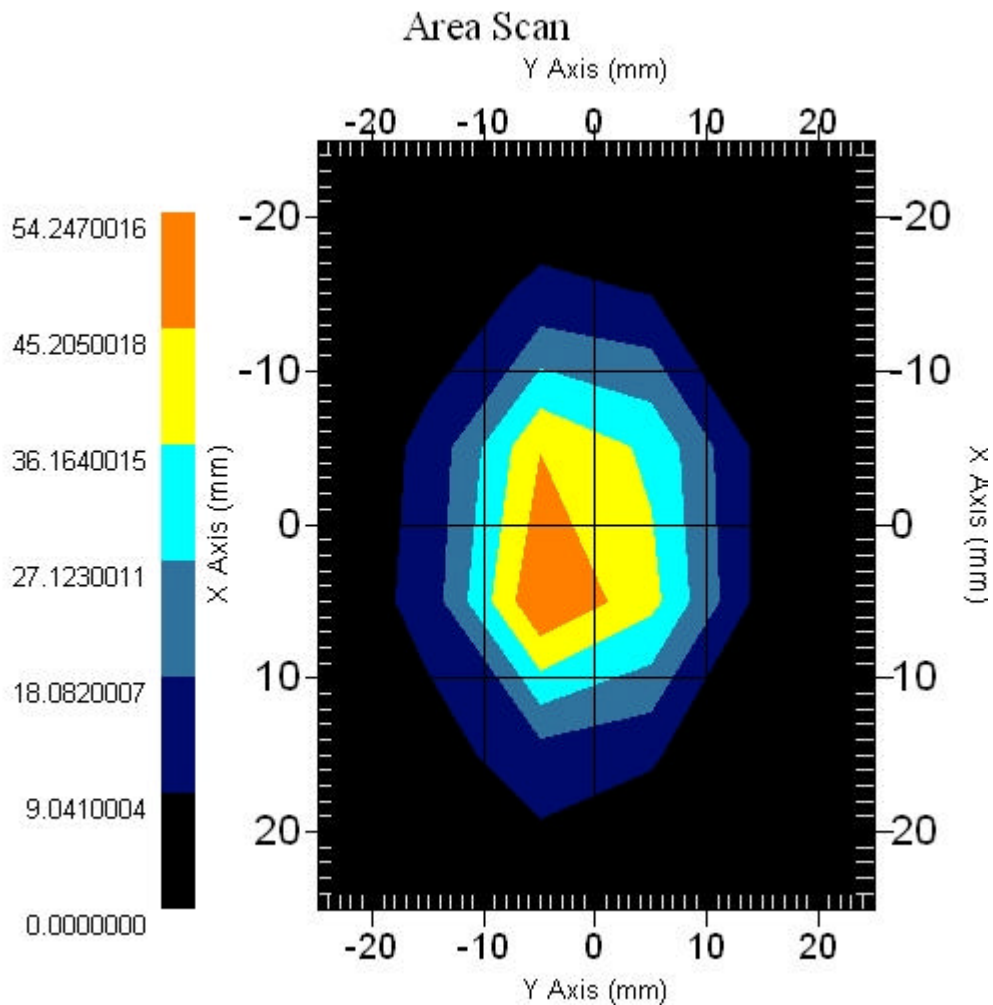
Probe Data
 Name : E-field Probe
 Model : ALS-E-020
 Type : E-Field Triangle
 Serial No. : 266
 Last Calib. Date : 22-Jun-2006
 Frequency : 5800.00 MHz
 Duty Cycle Factor: 1
 Conversion Factor: 3.72
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 22.40 °C
 Ambient Temp. : 22.90 °C
 Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

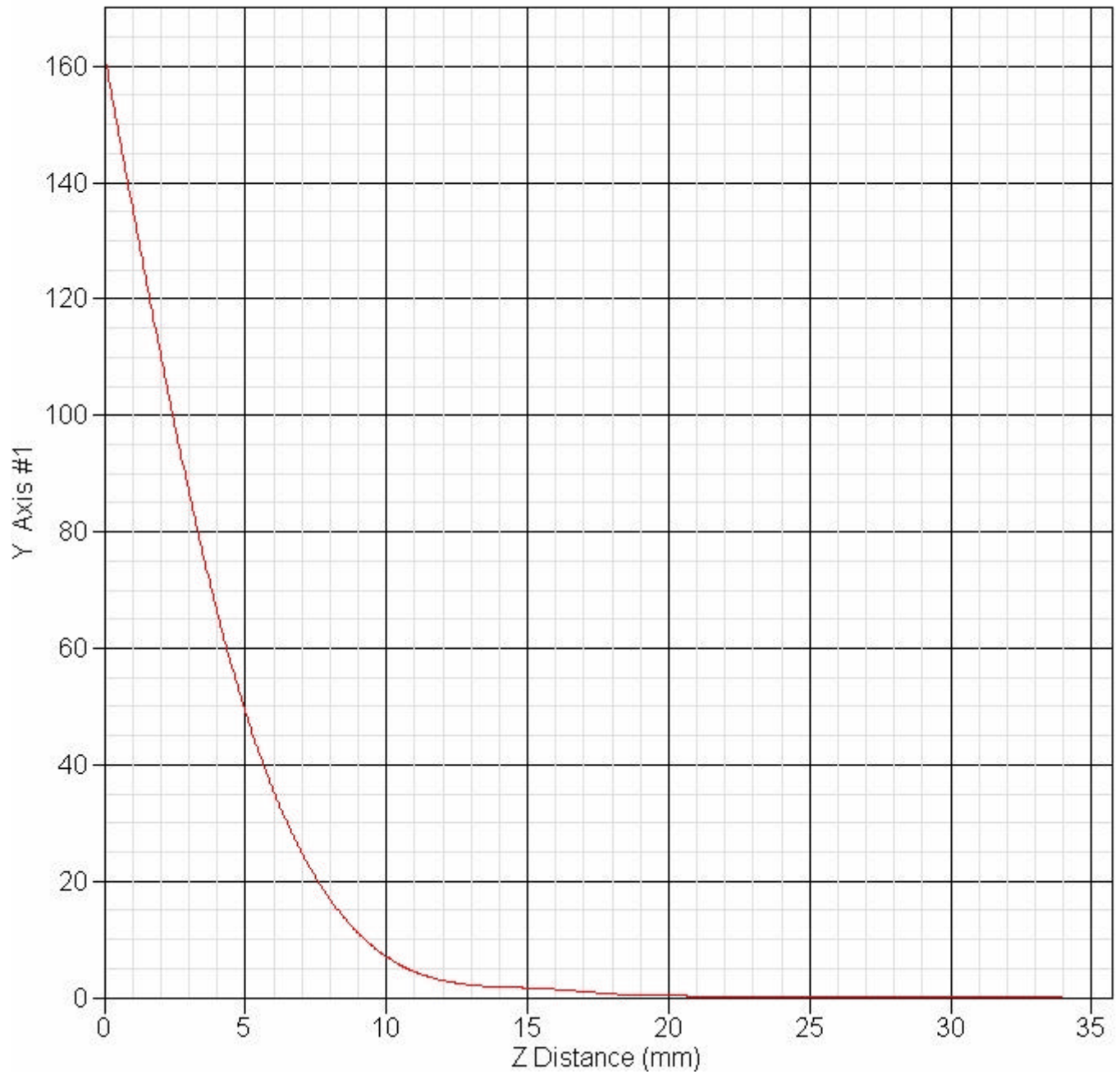
Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5800MHz



1 gram SAR value : 61.540 W/kg
 10 gram SAR value : 18.462 W/kg
 Area Scan Peak SAR : 54.247 W/kg
 Zoom Scan Peak SAR : 162.132 W/kg

SAR-Z Axis
at Hotspot x:1.30 y:-7.20



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Measurement Date : 18-Aug-2006
 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
 Orientation : Touch
 Power Drift-Start : 70.899 W/kg
 Power Drift-Finish: 70.901 W/kg
 Power Drift (%) : 0.003
 Picture :

Phantom Data
 Name : APREL-Uni
 Type : Uni-Phantom
 Size (mm) : 280 x 280 x 200
 Serial No. : System Default
 Location : Center
 Description : uni_1

Tissue Data
 Type : HEAD
 Serial No. : 5800-H-AU-19
 Frequency : 5800.00 MHz
 Last Calib. Date : 18-Aug-2005
 Temperature : 22.30 °C
 Ambient Temp. : 22.70 °C
 Humidity : 48.00 RH%
 Epsilon : 36.25 F/m
 Sigma : 5.39 S/m
 Density : 1000.00 kg/cu. m

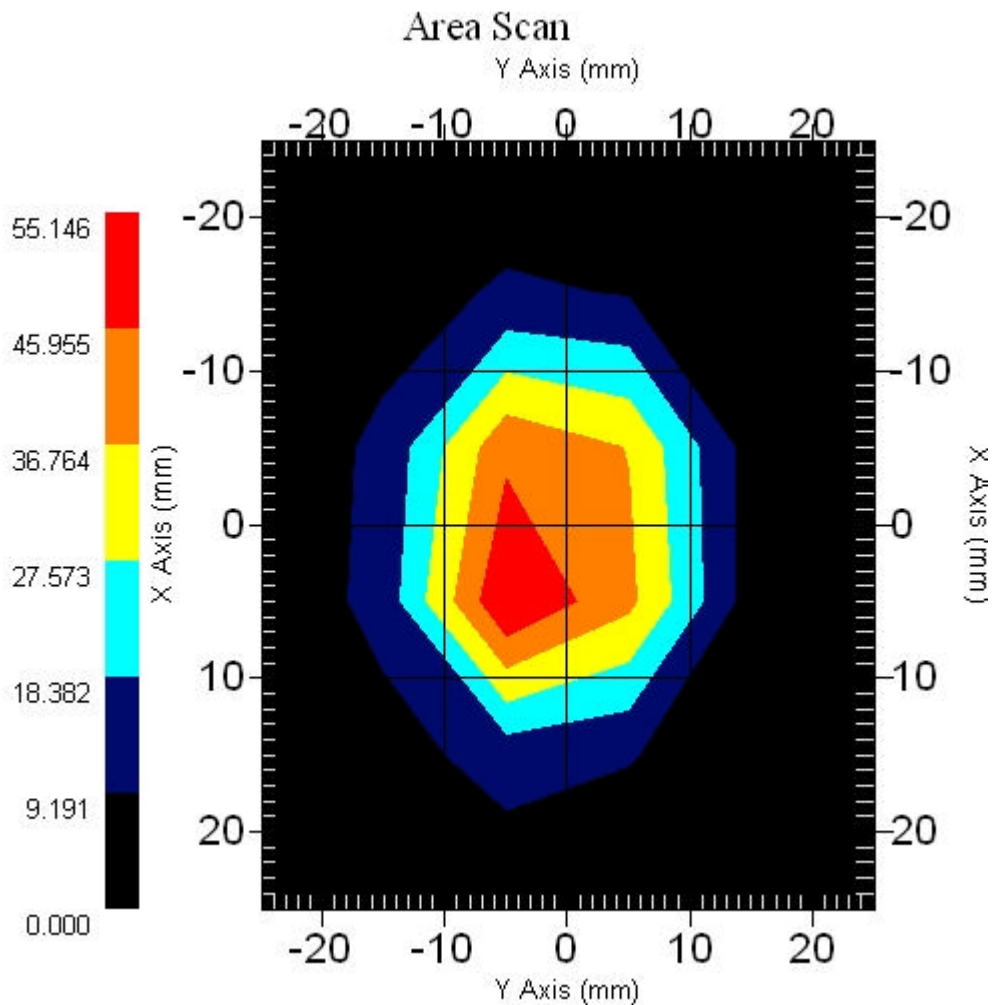
Probe Data
 Name : E-field Probe
 Model : ALS-E-020
 Type : E-Field Triangle
 Serial No. : 266
 Last Calib. Date : 22-Jun-2006
 Frequency : 5800.00 MHz
 Duty Cycle Factor: 1
 Conversion Factor: 3.72
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 22.30 °C
 Ambient Temp. : 22.70 °C
 Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

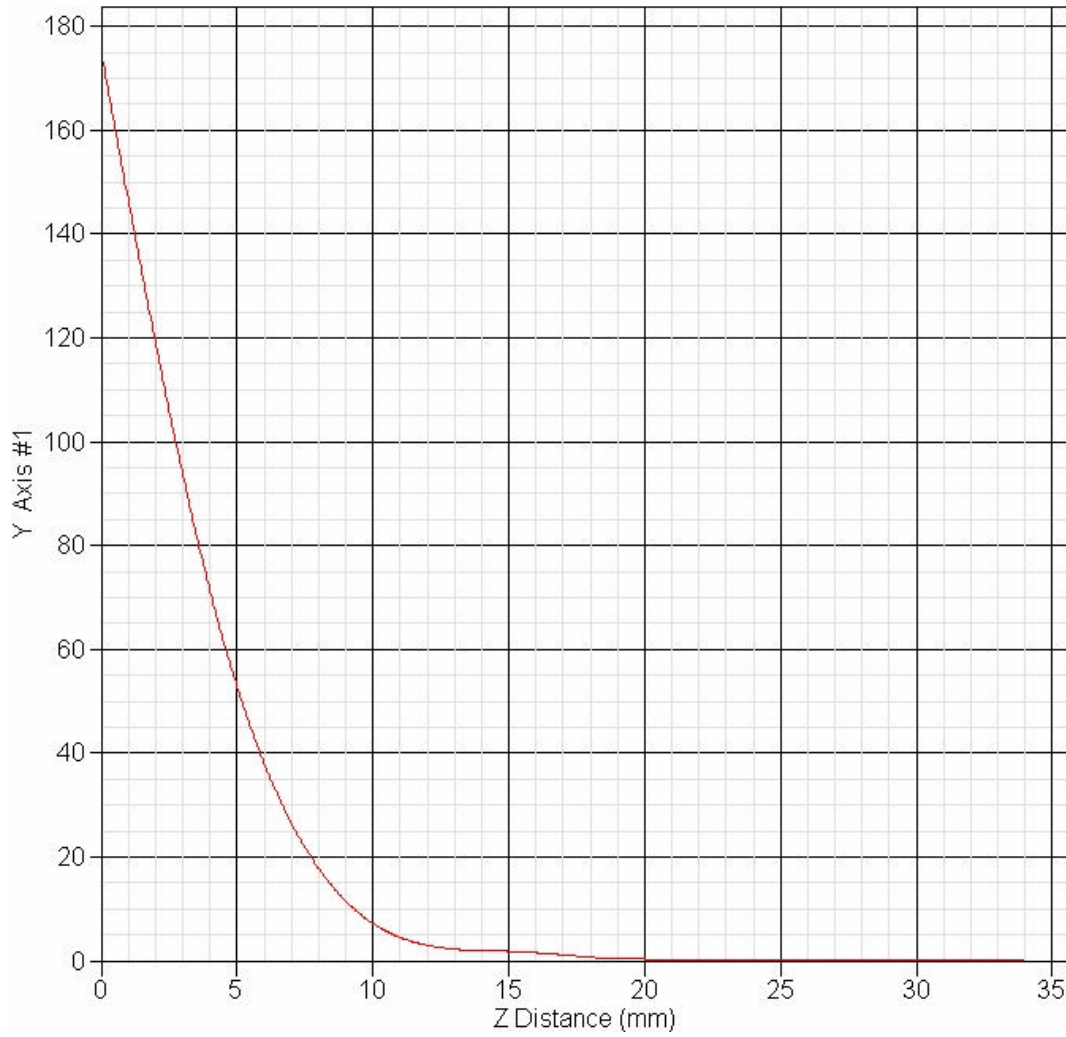
Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5800MHz



1 gram SAR value : 63.893 W/kg
 10 gram SAR value : 19.156 W/kg
 Area Scan Peak SAR : 55.146 W/kg
 Zoom Scan Peak SAR : 175.143 W/kg

SAR-Z Axis
at Hotspot x:1.40 y:-7.10



10.4 835MHz System Validation Data

Measurement Date : 16-Aug-2006

Product Data

Device Name : Dipole-835
 Serial No. : Validation
 Type : Dipole
 Model : Standard
 Frequency : 835.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 161 mm
 Width : 3.6 mm
 Depth : 89.8 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 10.628 W/kg
 Power Drift-Finish: 10.719 W/kg
 Power Drift (%) : 0.856
 Picture :

Phantom Data

Name : APREL-Uni
 Type : Uni-Phantom
 Size (mm) : 280 x 280 x 200
 Serial No. : System Default
 Location : Center
 Description : uni_1

Tissue Data

Type : HEAD
 Serial No. : 835HEAD
 Frequency : 835.00 MHz
 Last Calib. Date : 16-Aug-2006
 Temperature : 21.20 °C
 Ambient Temp. : 21.50 °C
 Humidity : 51.00 RH%
 Epsilon : 40.65 F/m
 Sigma : 0.92 S/m
 Density : 1000.00 kg/cu. m

Probe Data

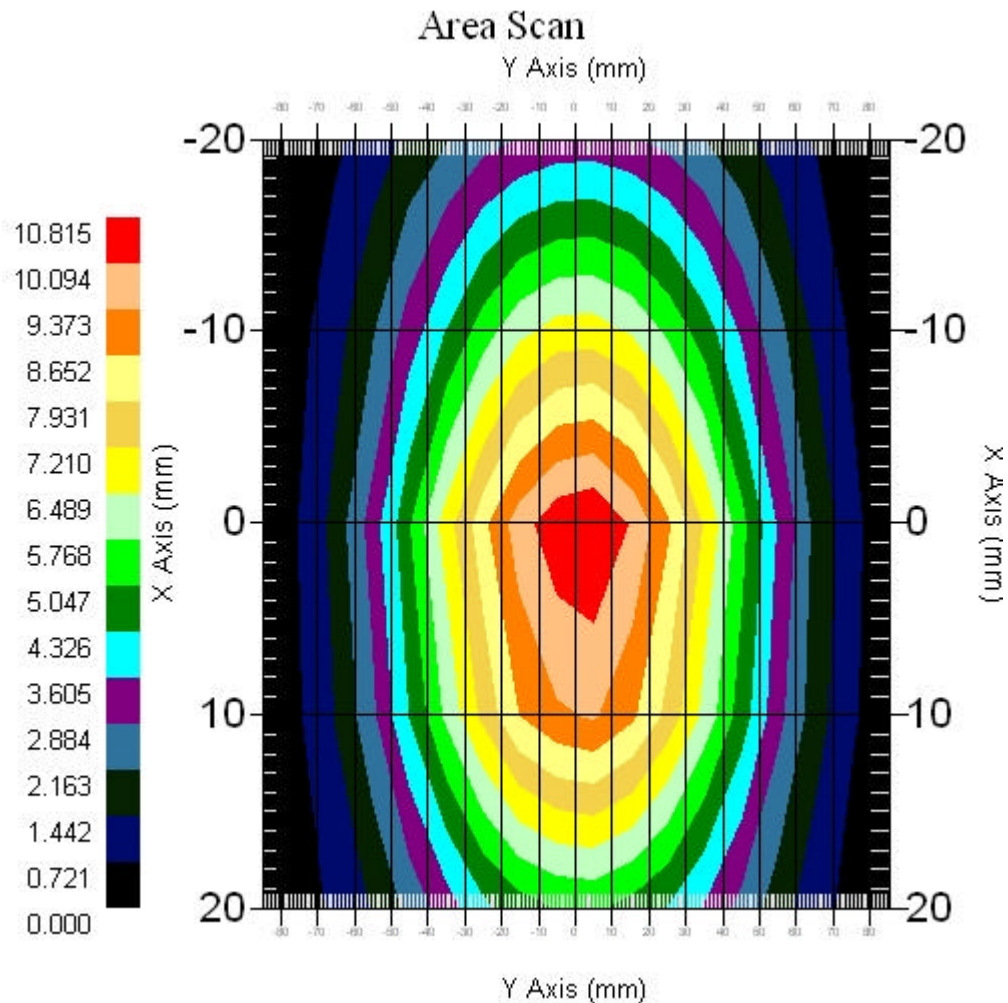
Name : E-field Probe
 Model : ALS-E-020
 Type : E-Field Triangle
 Serial No. : 266
 Last Calib. Date : 22-Jun-2006
 Frequency : 835.00 MHz
 Duty Cycle Factor: 1
 Conversion Factor: 6.9
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V/m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 21.50 °C
 Area Scan : 5x18x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

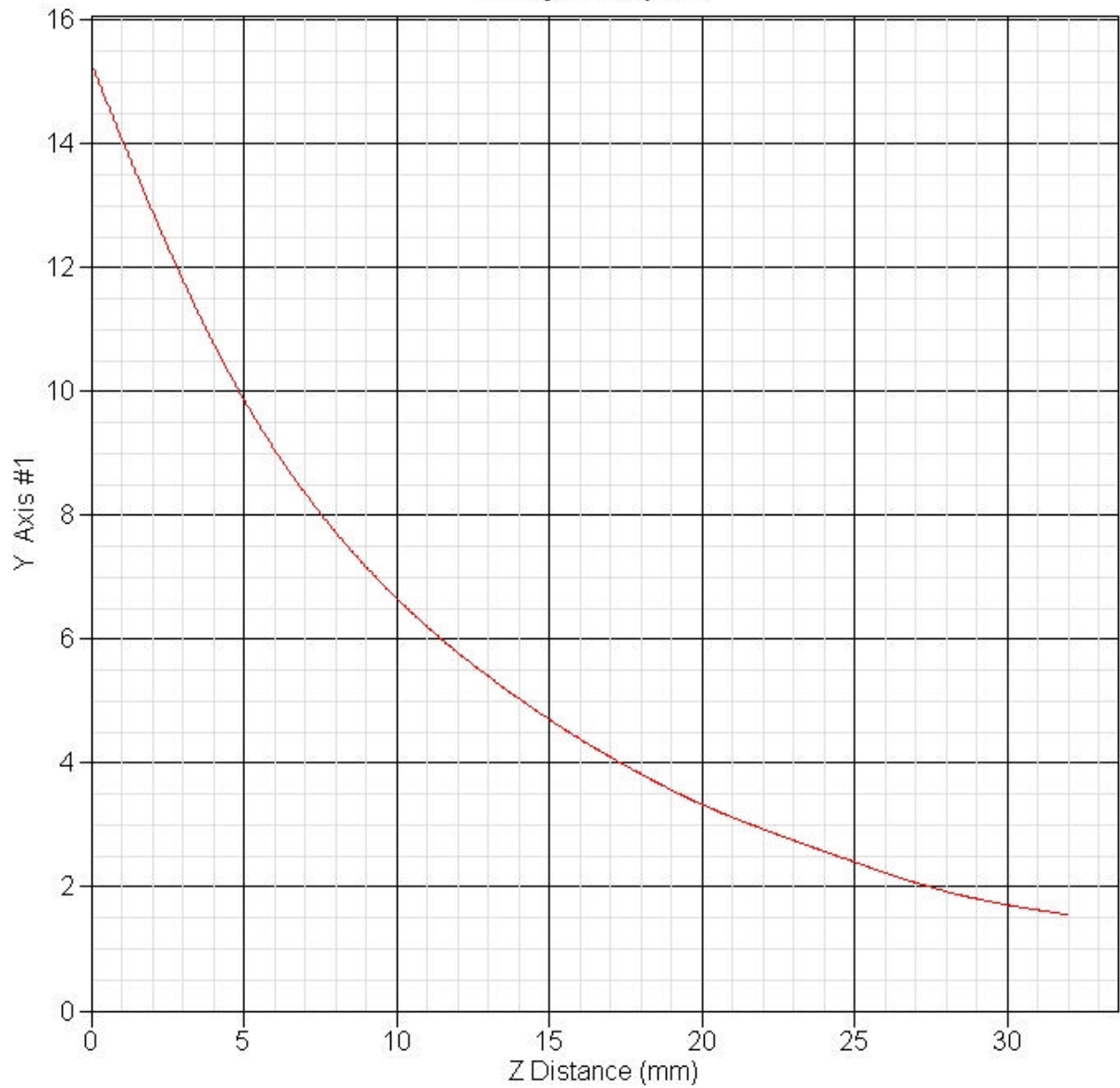
Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 835



1 gram SAR value : 10.066 W/kg
 10 gram SAR value : 6.444 W/kg
 Area Scan Peak SAR : 10.808 W/kg
 Zoom Scan Peak SAR : 15.314 W/kg

SAR-Z Axis
at Hotspot x:0.40 y:2.60



835MHz System Validation Data

Measurement Date : 21-Aug-2006
 Product Data
 Device Name : Dipole-835
 Serial No. : Validation
 Type : Dipole
 Model : Standard
 Frequency : 835.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 161 mm
 Width : 3.6 mm
 Depth : 89.8 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 9.379 W/kg
 Power Drift-Finish : 9.513 W/kg
 Power Drift (%) : 1.424
 Picture :

Phantom Data
 Name : APREL-Uni
 Type : Uni-Phantom
 Size (mm) : 280 x 280 x 200
 Serial No. : System Default
 Location : Center
 Description : uni_1

Tissue Data
 Type : HEAD
 Serial No. : 835HEAD
 Frequency : 835.00 MHz
 Last Calib. Date : 21-Aug-2006
 Temperature : 21.40 °C
 Ambient Temp. : 21.90 °C
 Humidity : 51.00 RH%
 Epsilon : 40.83 F/m
 Sigma : 0.91 S/m
 Density : 1000.00 kg/cu. m

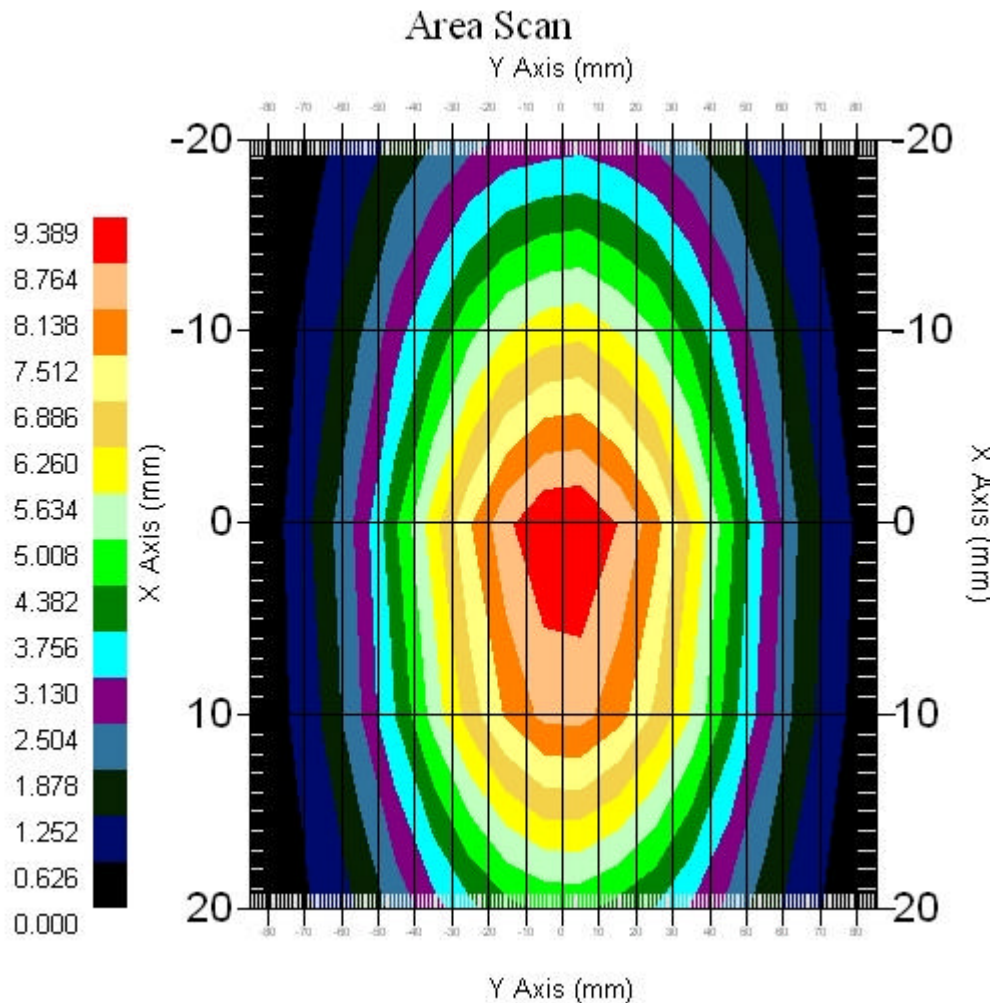
Probe Data
 Name : E-field Probe
 Model : ALS-E-020
 Type : E-Field Triangle
 Serial No. : 266
 Last Calib. Date : 22-Jun-2006
 Frequency : 835.00 MHz
 Duty Cycle Factor : 1
 Conversion Factor : 6.9
 Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
 Compression Point : 95.00 mV
 Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 21.40 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 5x18x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

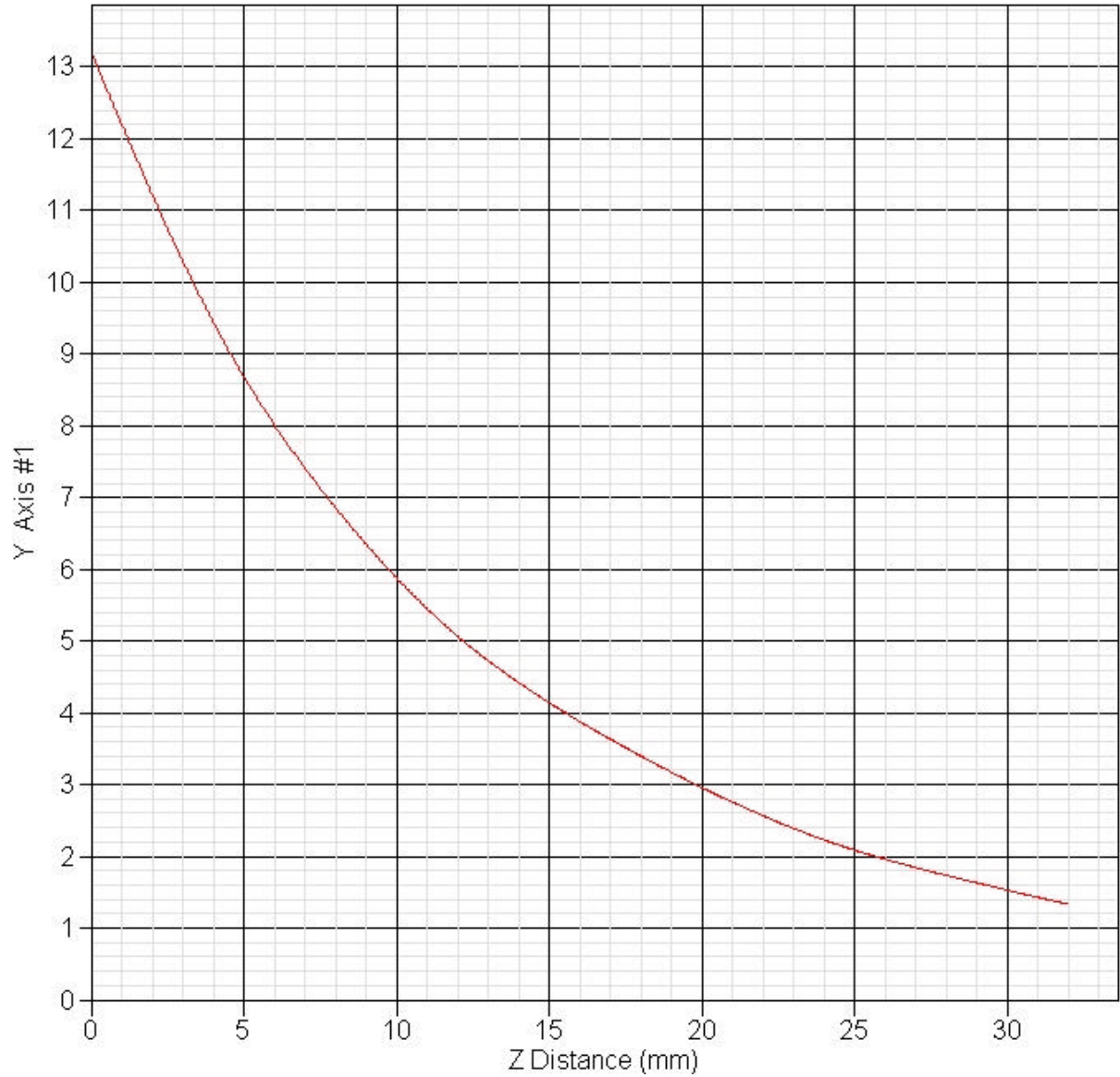
Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 835MHz



1 gram SAR value : 8.808 W/kg
 10 gram SAR value : 5.677 W/kg
 Area Scan Peak SAR : 9.389 W/kg
 Zoom Scan Peak SAR : 13.212 W/kg

SAR-Z Axis
at Hotspot x:0.40 y:-5.20



11. 802.11b SAR measurement Data

SAR Test Report

Measurement Date : 01-Aug-2006

Product Data

Device Name : Golan
Serial No. : 11.b-Botton-GSM800
Type : Other
Model : 1
Frequency : 2437.00 MHz
Max. Transmit Pwr : 0.103 W
Drift Time : 0 min(s)
Length : 230 mm
Width : 270 mm
Depth : 22 mm
Antenna Type : Internal
Orientation : Touch

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : uni_1

Tissue Data

Type : BODY
Serial No. : 2450BODY
Frequency : 2450.00 MHz
Last Calib. Date : 01-Aug-2006
Temperature : 22.10 °C
Ambient Temp. : 22.40 °C
Humidity : 51.00 RH%
Epsilon : 53.95 F/m
Sigma : 1.99 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: 5.02
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

11.1. 802.11b + Karafuto (GSM, EGSM, UMTS) : FCCID N7NMC8765 +Bluetooth

■ 2437 MHz, EUT Position: Laptop 836 GSM

International Standards Laboratory

Report Number: ISL-06LR019SAR-F

HC LAB: NVLAP:200234-0; VCCI: R-341, C-354; NEMKO: ELA 113A; BSMI: SL2-IN-E-0037; SL2-R1-E-0037; CNLA: 1178; IC: IC4067
LT LAB: NVLAP:200234-0; VCCI: R-1435, C-1440; NEMKO: ELA 113B; CNLA: 0997; IC: IC4164-1

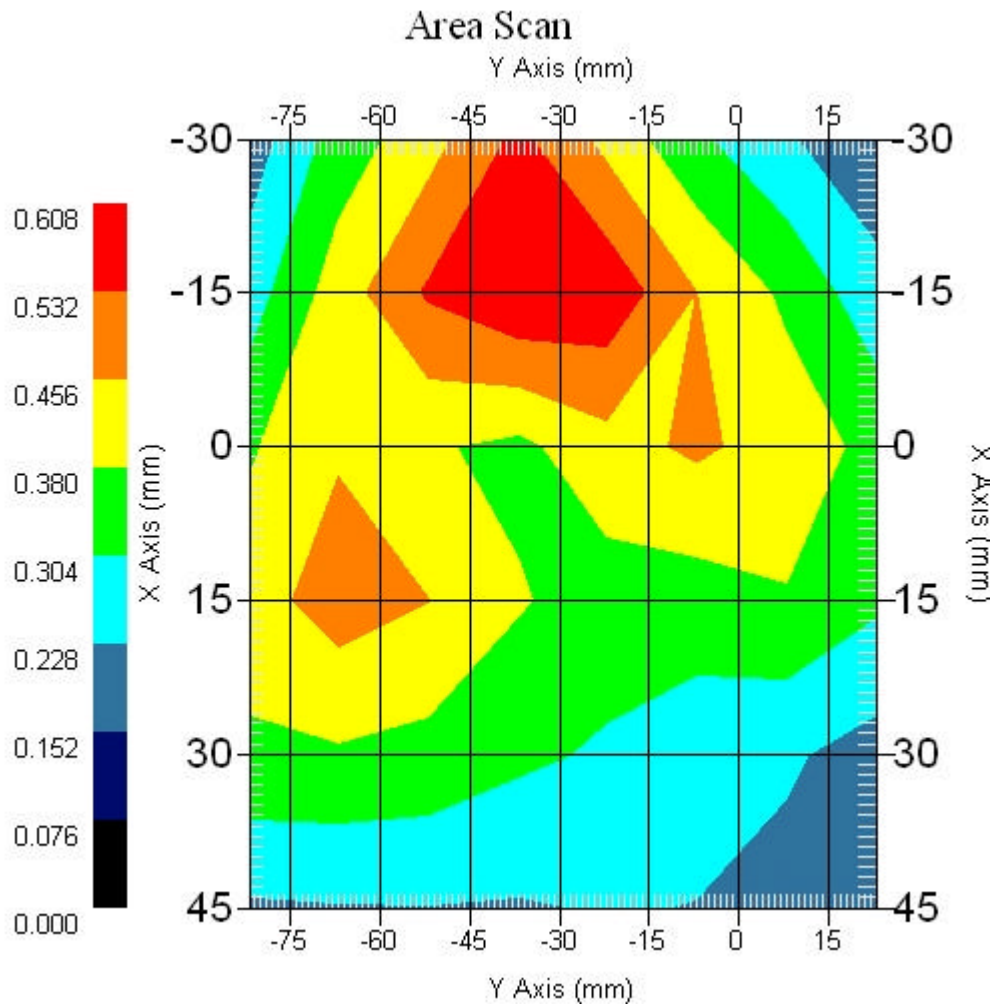
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.458 W/kg
 Power Drift-Finish: 0.439 W/kg
 Power Drift (%) : -4.124



1 gram SAR value : 0.590 W/kg
 10 gram SAR value : 0.457 W/kg
 Area Scan Peak SAR : 0.606 W/kg
 Zoom Scan Peak SAR : 0.720 W/kg

■ 2437 MHz, EUT Position: Laptop 836 GSM

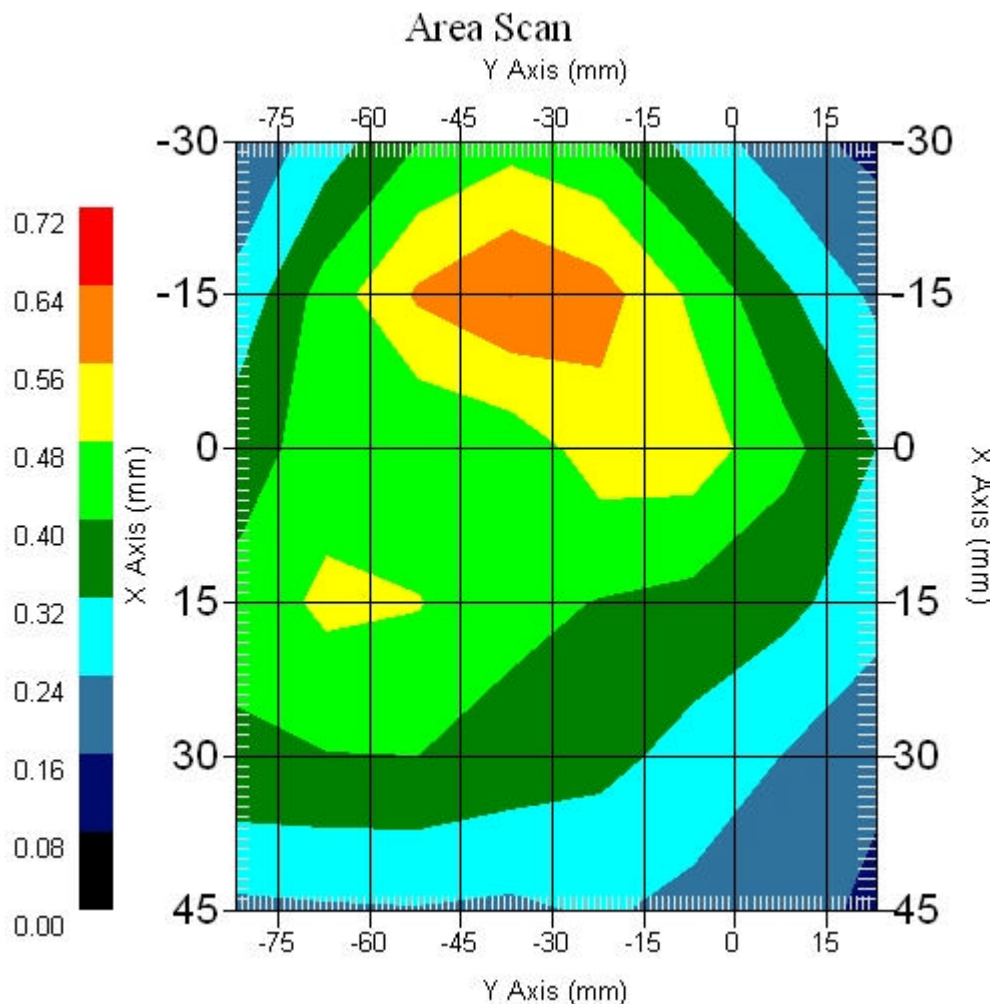
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.459 W/kg
 Power Drift-Finish: 0.457 W/kg
 Power Drift (%) : -0.426
 Picture :



1 gram SAR value : 0.607 W/kg
 10 gram SAR value : 0.459 W/kg
 Area Scan Peak SAR : 0.641 W/kg
 Zoom Scan Peak SAR : 0.800 W/kg

■ 2437 MHz, EUT Position: Tablet, PL 836 GSM

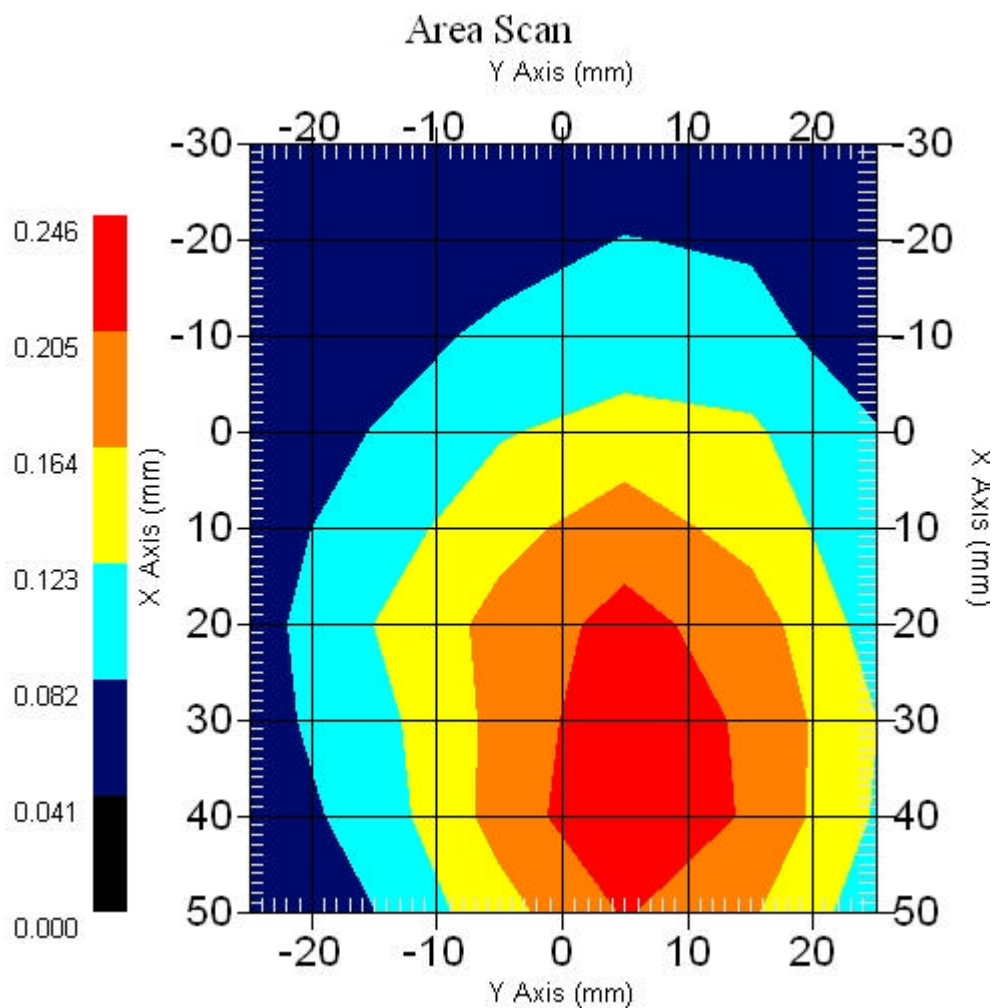
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.147 W/kg
 Power Drift-Finish: 0.147 W/kg
 Power Drift (%) : 0.113
 Picture :



1 gram SAR value : 0.242 W/kg
 10 gram SAR value : 0.177 W/kg
 Area Scan Peak SAR : 0.246 W/kg
 Zoom Scan Peak SAR : 0.360 W/kg

■ **2437 MHz, EUT Position: Tablet,PP 836 GSM**

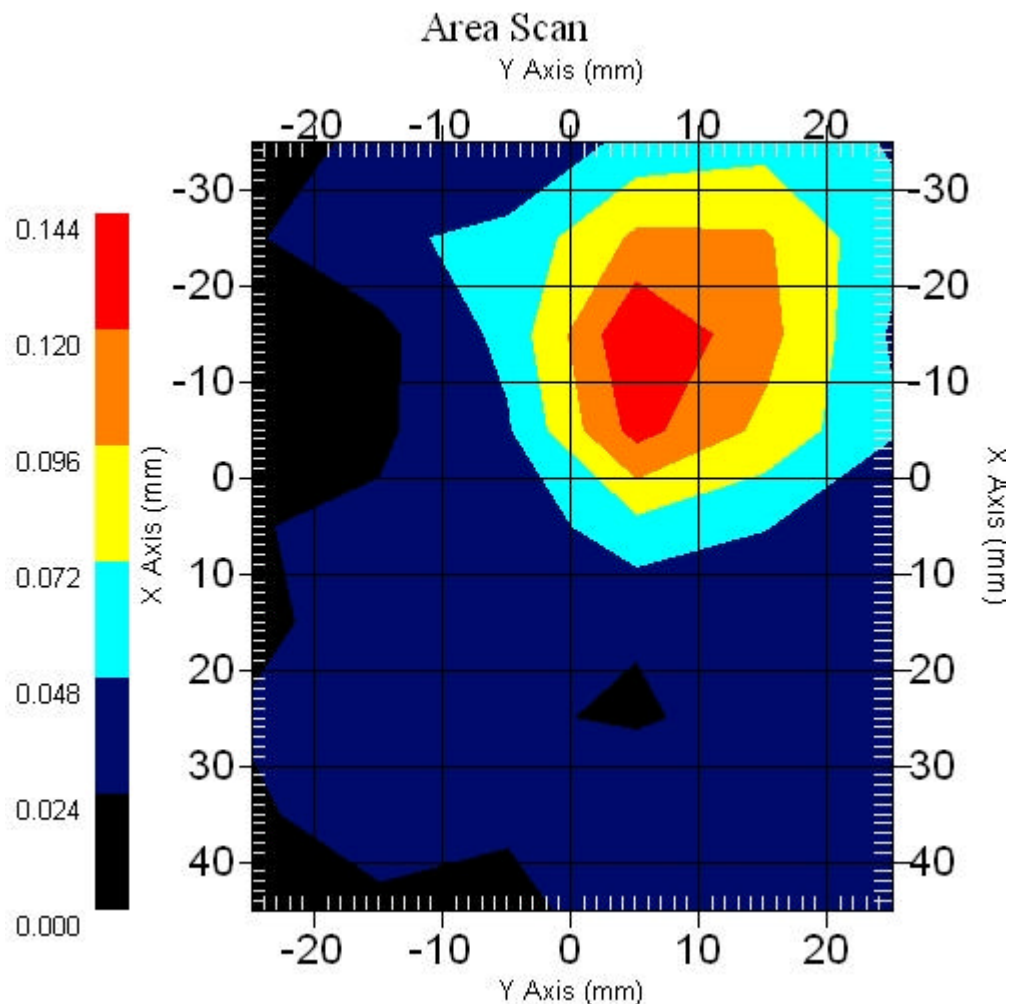
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.063 W/kg
 Power Drift-Finish: 0.066 W/kg
 Power Drift (%) : 4.761
 Picture :



1 gram SAR value : 0.120 W/kg
 10 gram SAR value : 0.064 W/kg
 Area Scan Peak SAR : 0.142 W/kg
 Zoom Scan Peak SAR : 0.230 W/kg

■ 2437 MHz, EUT Position: Tablet,SL 836 GSM

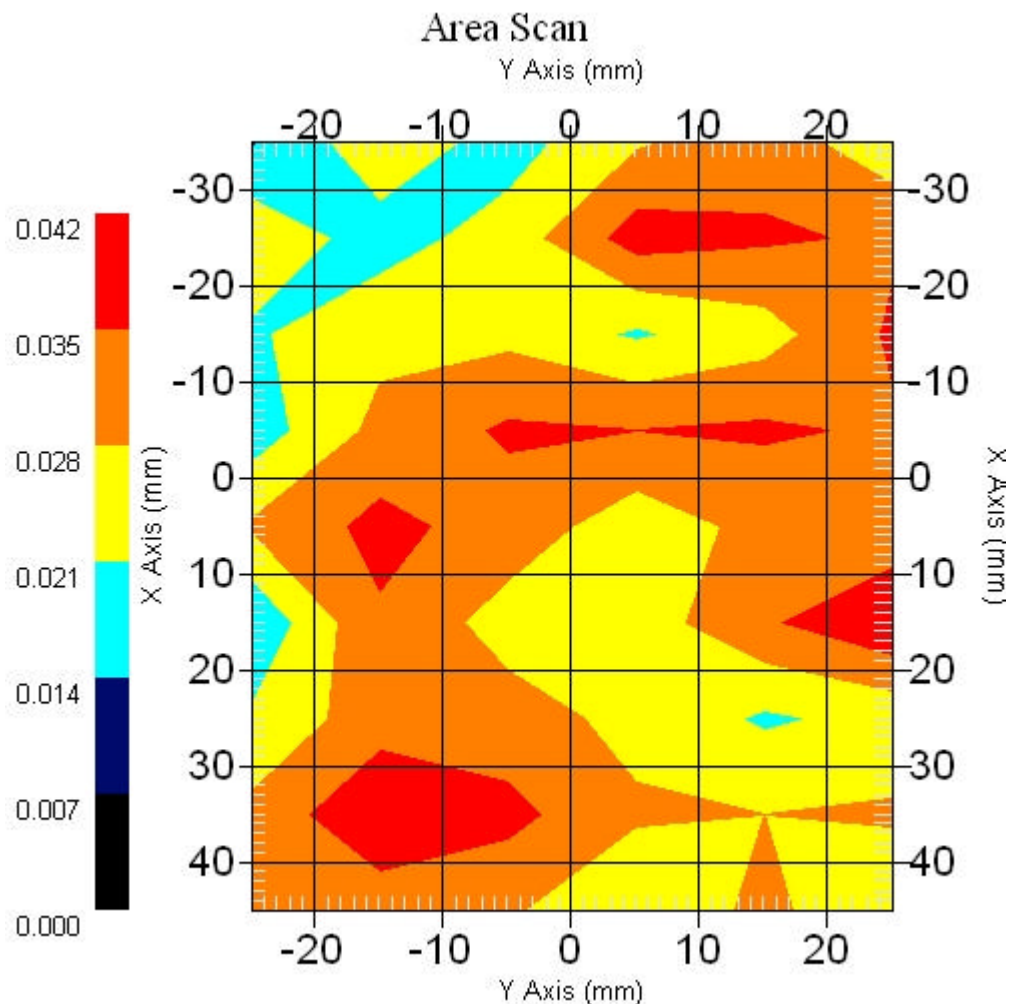
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.025 W/kg
 Power Drift-Finish: 0.026 W/kg
 Power Drift (%) : 4.184
 Picture :



1 gram SAR value : 0.065 W/kg
 10 gram SAR value : 0.047 W/kg
 Area Scan Peak SAR : 0.041 W/kg
 Zoom Scan Peak SAR : 0.100 W/kg

■ 2437 MHz, EUT Position: Tablet, SP 836 GSM

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

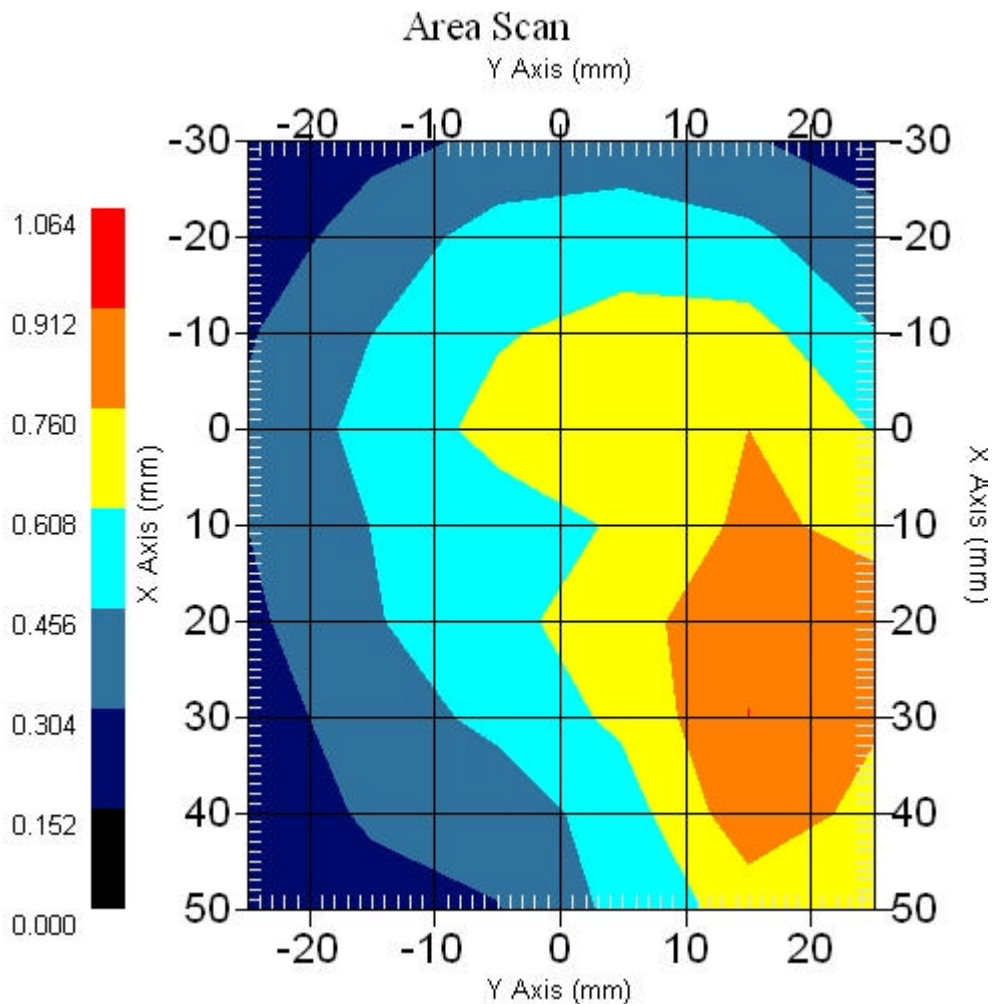
DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.684 W/kg

Power Drift-Finish: 0.712 W/kg

Power Drift (%) : 4.138

Picture :



1 gram SAR value : 0.765 W/kg

10 gram SAR value : 0.577 W/kg

Area Scan Peak SAR : 0.913 W/kg

Zoom Scan Peak SAR : 1.000 W/kg

■ **2437 MHz, EUT Position: Laptop 836 EGSM**

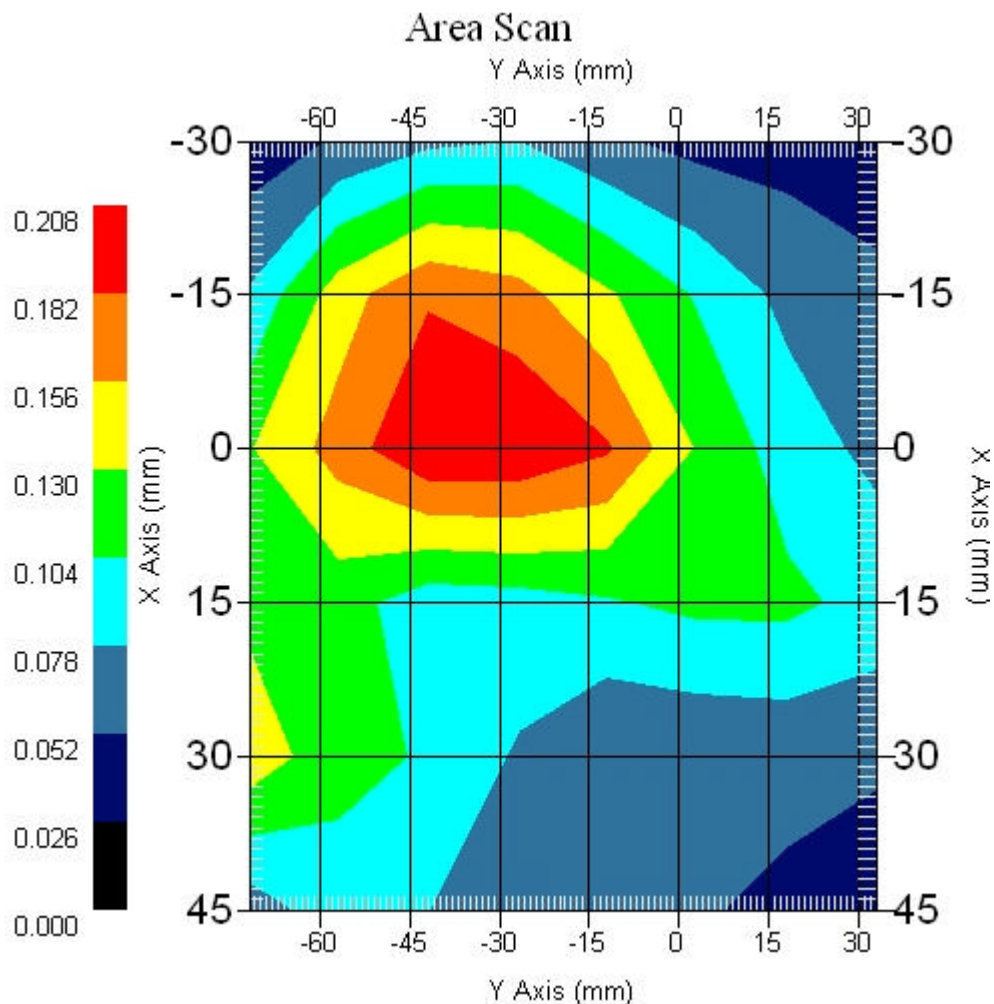
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.134 W/kg
 Power Drift-Finish: 0.140 W/kg
 Power Drift (%) : 4.477
 Picture :



1 gram SAR value : 0.201 W/kg
 10 gram SAR value : 0.142 W/kg
 Area Scan Peak SAR : 0.206 W/kg
 Zoom Scan Peak SAR : 0.250 W/kg

■ 2437 MHz, EUT Position: Laptop 836 EGSM

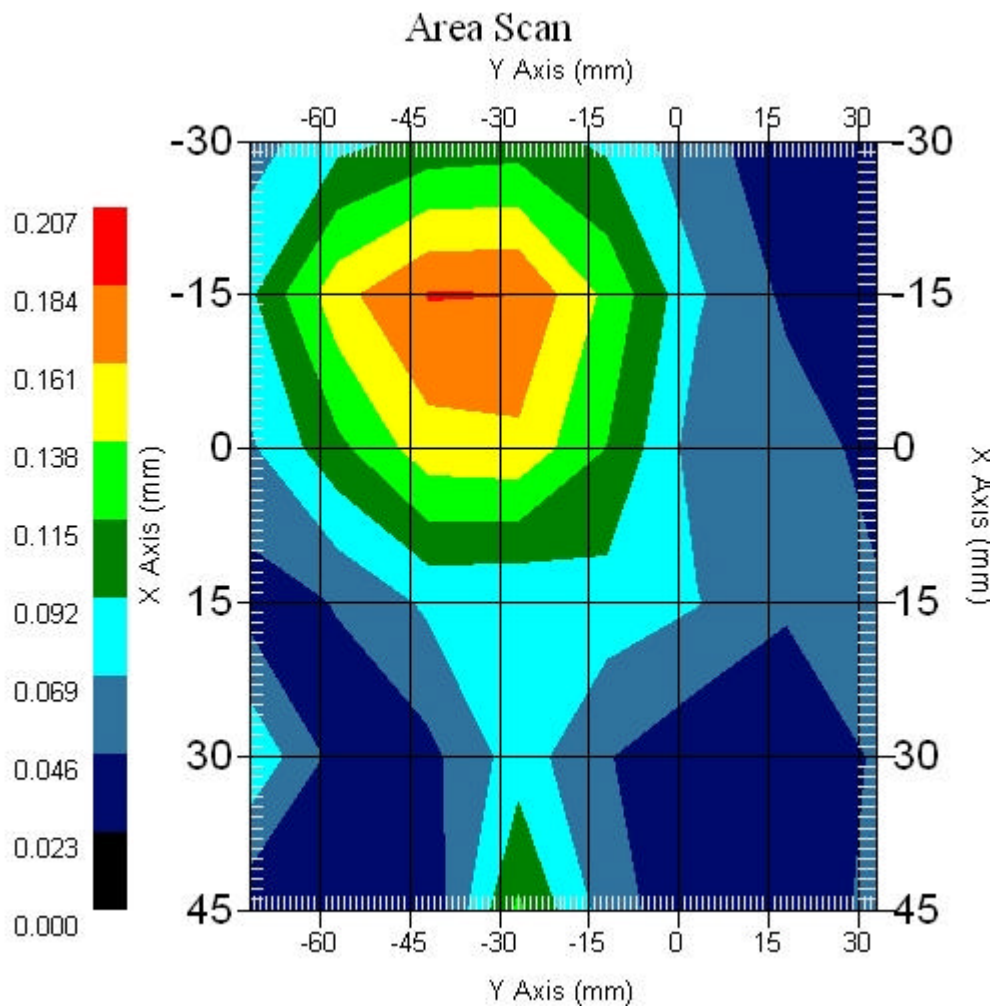
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.077 W/kg
 Power Drift-Finish: 0.077 W/kg
 Power Drift (%) : -0.112
 Picture :



1 gram SAR value : 0.193 W/kg
 10 gram SAR value : 0.119 W/kg
 Area Scan Peak SAR : 0.185 W/kg
 Zoom Scan Peak SAR : 0.330 W/kg

■ **2437 MHz, EUT Position: Tablet PL 836 EGSM**

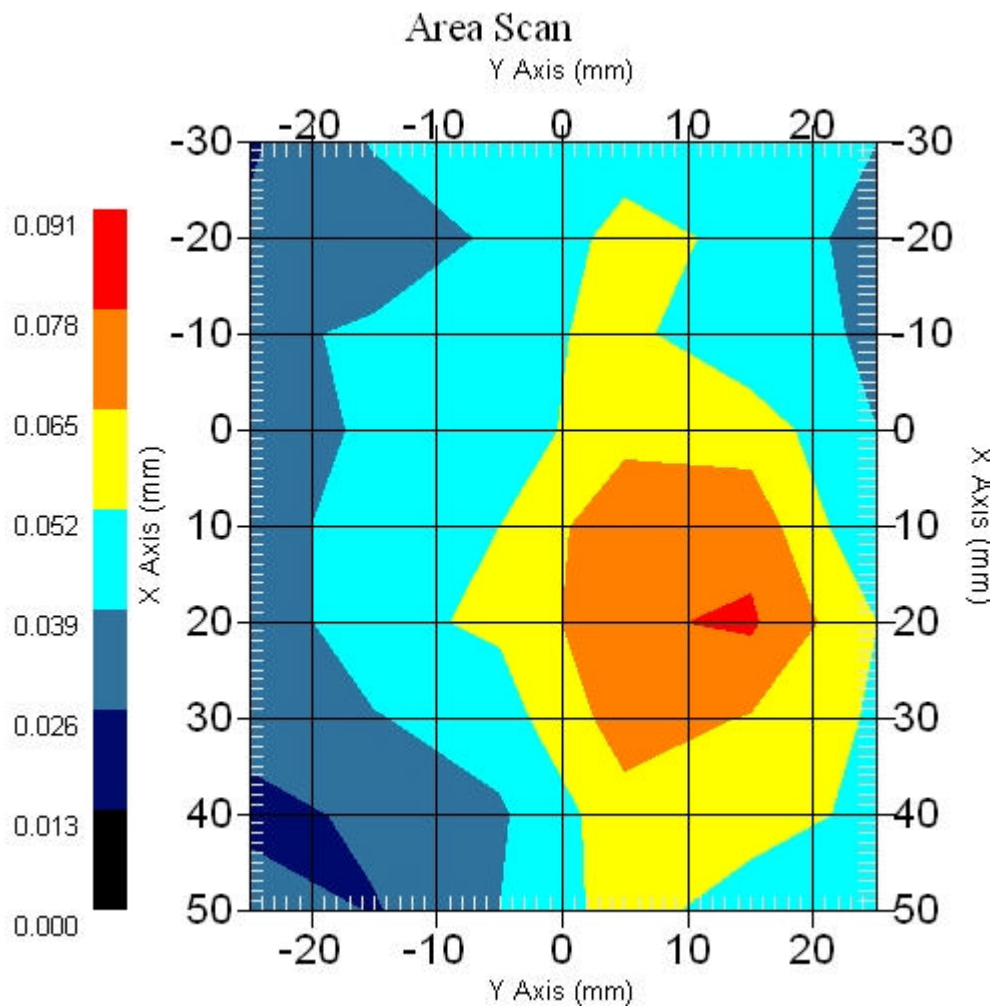
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.062 W/kg
 Power Drift-Finish: 0.066 W/kg
 Power Drift (%) : 4.838
 Picture :



1 gram SAR value : 0.089 W/kg
 10 gram SAR value : 0.061 W/kg
 Area Scan Peak SAR : 0.080 W/kg
 Zoom Scan Peak SAR : 0.160 W/kg

■ **2437 MHz, EUT Position: Tablet PP 836 EGSM**

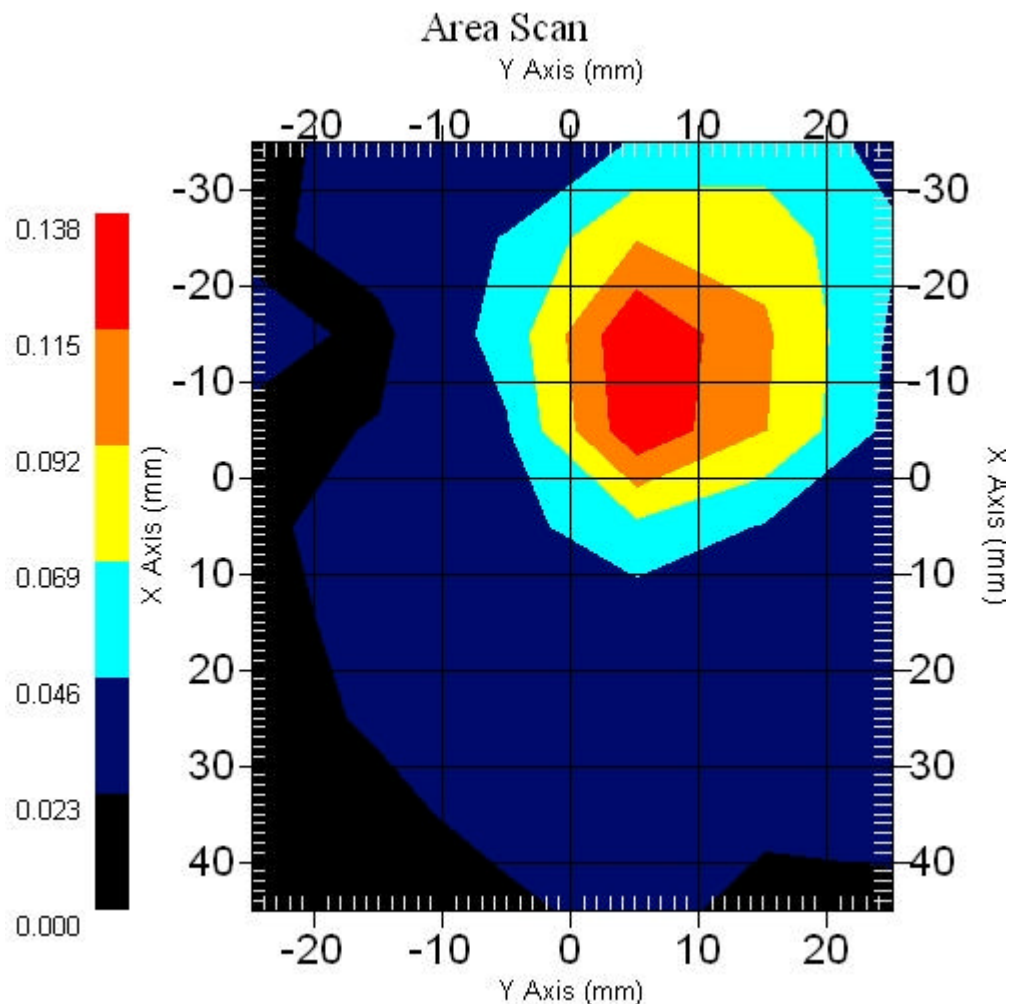
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.066 W/kg
 Power Drift-Finish: 0.067 W/kg
 Power Drift (%) : 1.165
 Picture :



1 gram SAR value : 0.128 W/kg
 10 gram SAR value : 0.063 W/kg
 Area Scan Peak SAR : 0.136 W/kg
 Zoom Scan Peak SAR : 0.290 W/kg

■ **2437 MHz, EUT Position: Tablet SL 836 EGSM**

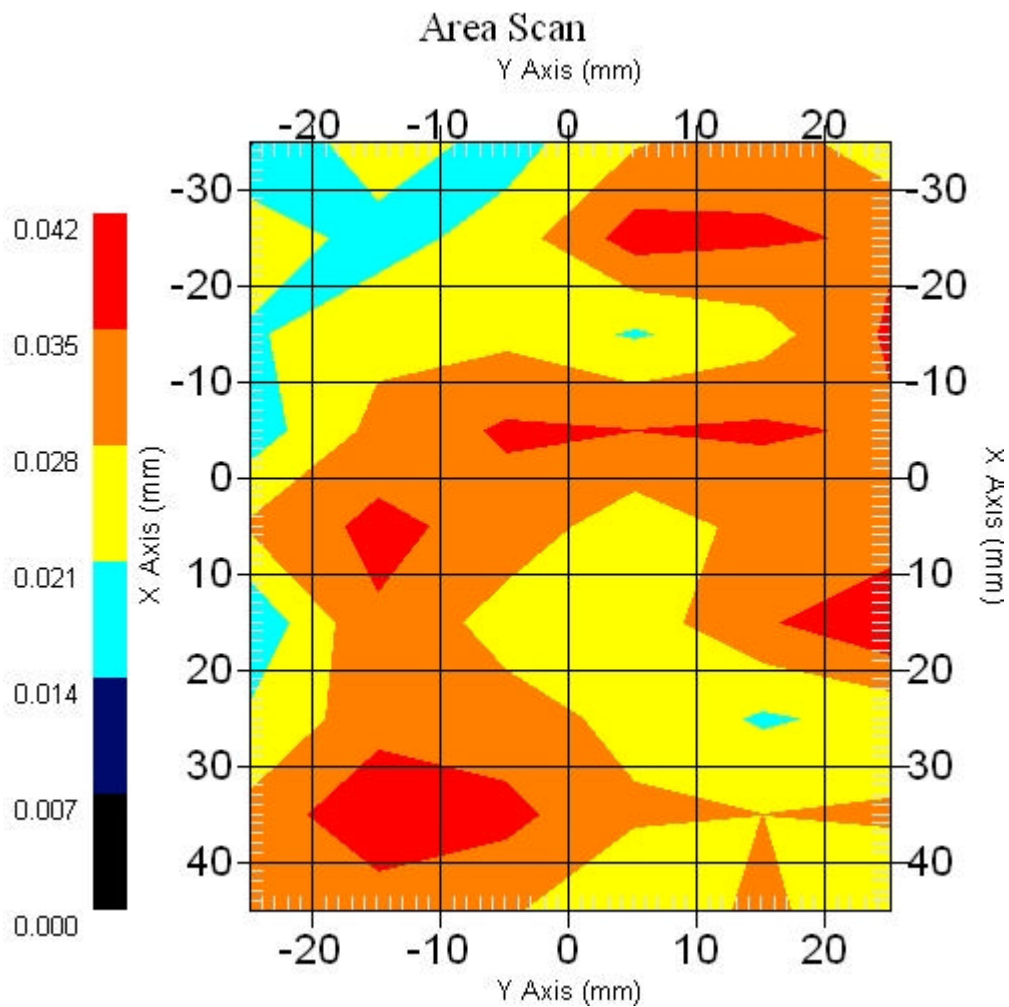
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.025 W/kg
 Power Drift-Finish: 0.026 W/kg
 Power Drift (%) : 4.184
 Picture :



1 gram SAR value : 0.065 W/kg
 10 gram SAR value : 0.047 W/kg
 Area Scan Peak SAR : 0.041 W/kg
 Zoom Scan Peak SAR : 0.100 W/kg

■ **2437 MHz, EUT Position: Tablet SP 836 EGSM**

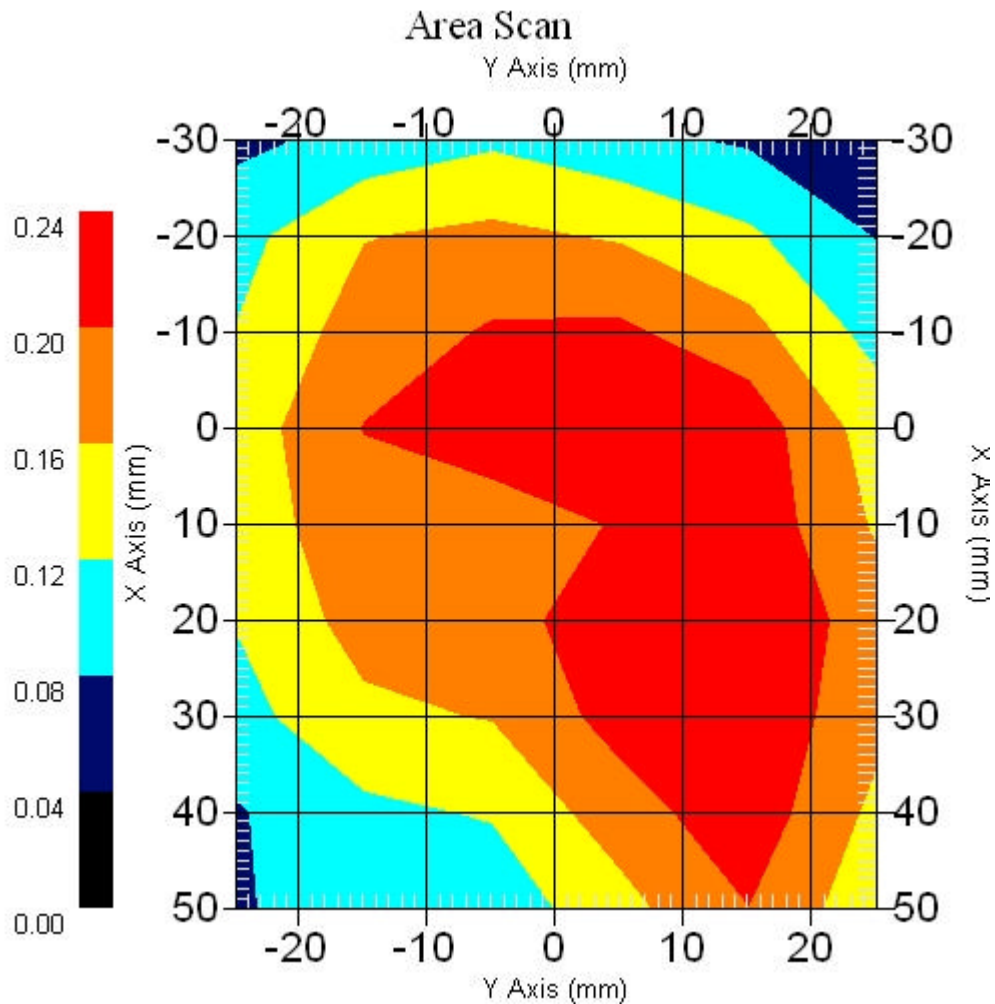
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.240 W/kg
 Power Drift-Finish: 0.241 W/kg
 Power Drift (%) : 4.166
 Picture :



1 gram SAR value : 0.260 W/kg
 10 gram SAR value : 0.199 W/kg
 Area Scan Peak SAR : 0.237 W/kg
 Zoom Scan Peak SAR : 0.230 W/kg