

Appendix B

SAR measurement Data

of

Product Name

Notebook Personal Computer

Model

A790

1 835 MHz SAR measurement Data

FTAP_SAR Test Report

Report Date : 24-Oct-2006
Measurement Date : 24-Oct-2006

Product Data

Device Name : A790
Serial No. : side
Type : Other
Frequency : 835.00 MHz
Max. Transmit Pwr : 0.2 W
Drift Time : 0 min(s)
Length : 25 mm
Width : 140 mm
Depth : 2 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 835BODY
Frequency : 835.00 MHz
Last Calib. Date : 24-Oct-2006
Temperature : 23.60 °C
Ambient Temp. : 23.80 °C
Humidity : 53.00 RH%
Epsilon : 53.97 F/m
Sigma : 0.98 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

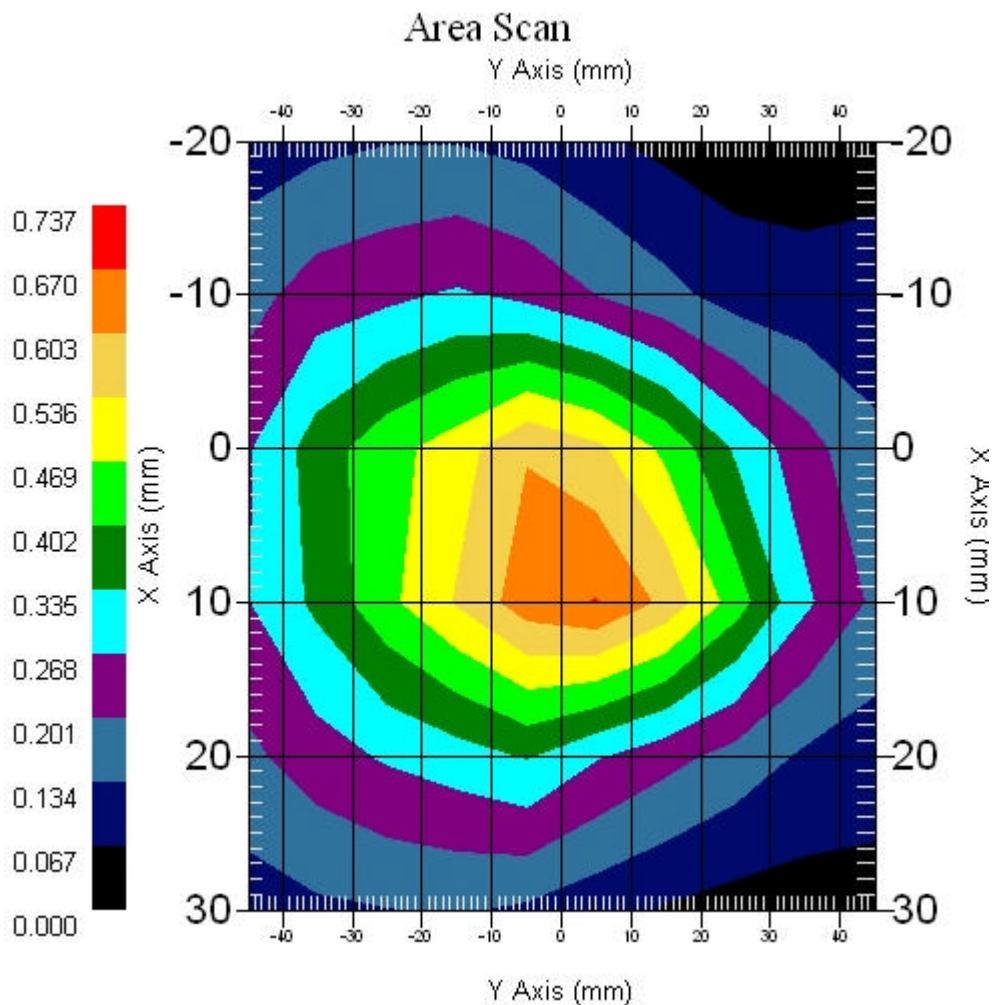
1.1 835 MHz, EUT Position: Side

Measurement Data

Crest Factor : 1
Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Low - 824.73MHz

Power Drift-Start : 0.563 W/kg
Power Drift-Finish: 0.558 W/kg
Power Drift (%) : -0.896



1 gram SAR value : 0.598 W/kg
10 gram SAR value : 0.343 W/kg
Area Scan Peak SAR : 0.673 W/kg
Zoom Scan Peak SAR : 1.010 W/kg

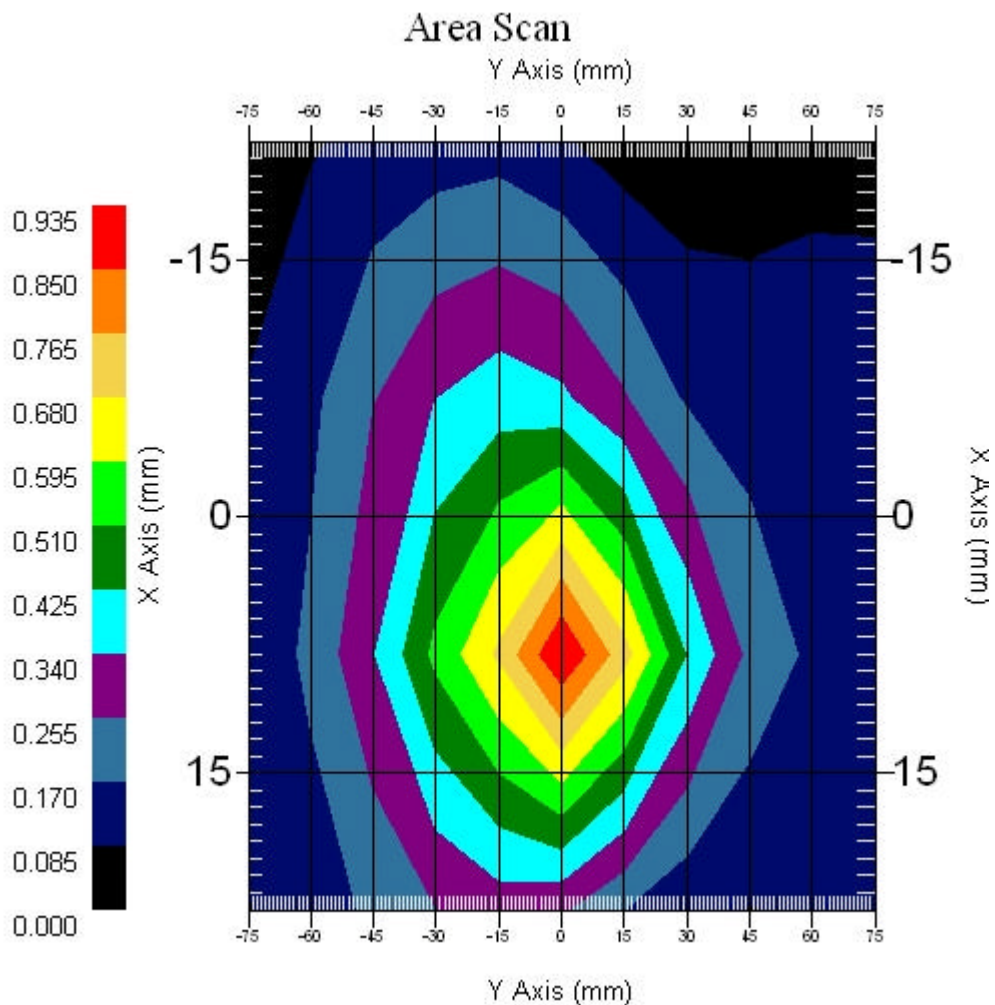
1.2 835 MHz, EUT Position: Side

Measurement Data

Crest Factor : 1
Area Scan : 4x11x1 : Measurement x=15mm, y=15mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Mid - 836.4MHz

Power Drift-Start : 0.684 W/kg
Power Drift-Finish: 0.680 W/kg
Power Drift (%) : -0.537



1 gram SAR value : 0.762 W/kg
10 gram SAR value : 0.433 W/kg
Area Scan Peak SAR : 0.932 W/kg
Zoom Scan Peak SAR : 1.361 W/kg

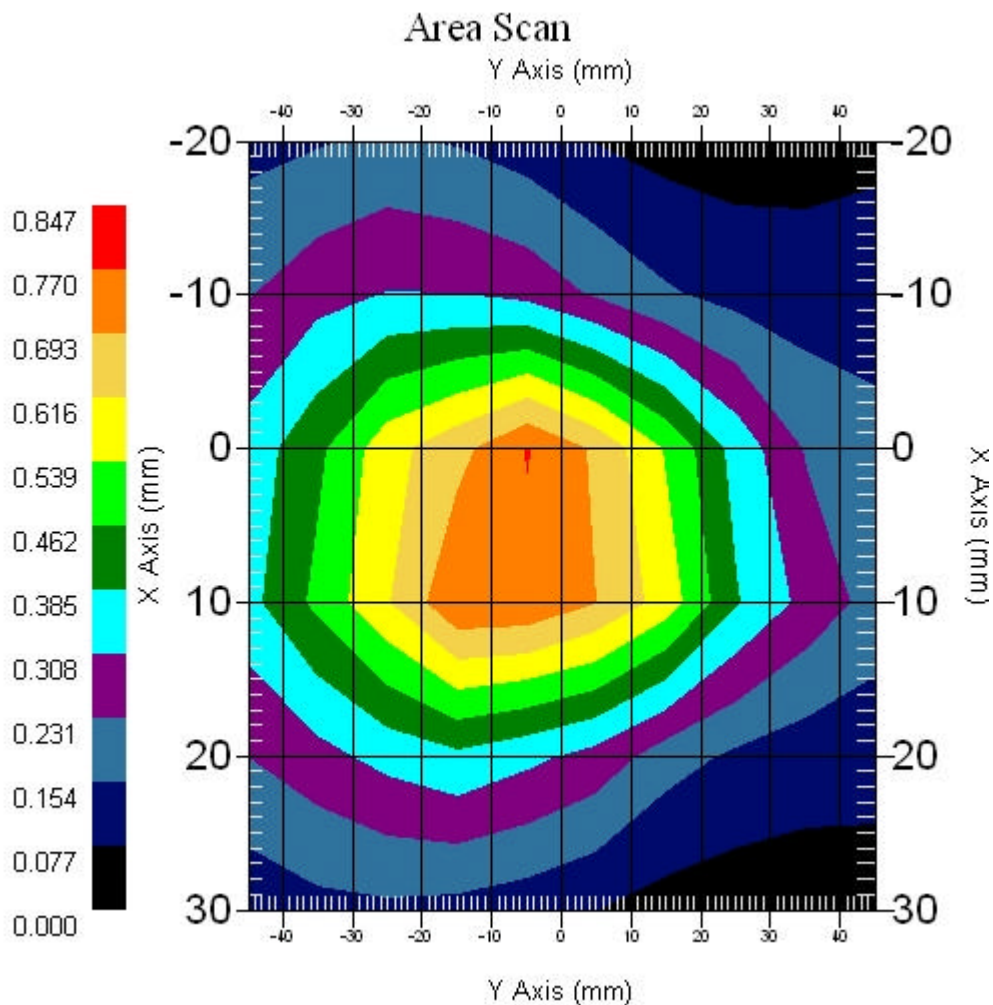
1.3 835 MHz, EUT Position: Side

Measurement Data

Crest Factor : 1
Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : High - 848.19MHz

Power Drift-Start : 0.699 W/kg
Power Drift-Finish: 0.714 W/kg
Power Drift (%) : 2.122



1 gram SAR value : 0.670 W/kg
10 gram SAR value : 0.367 W/kg
Area Scan Peak SAR : 0.773 W/kg
Zoom Scan Peak SAR : 1.231 W/kg

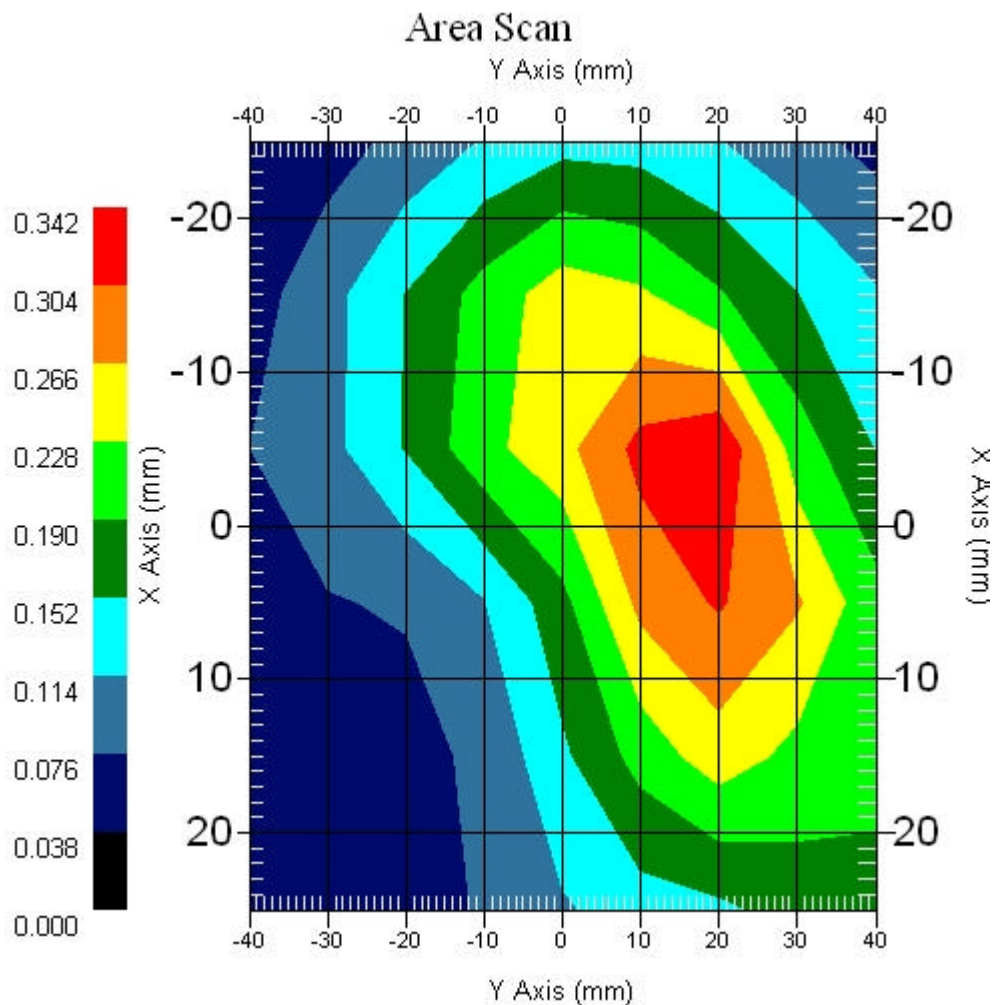
1.4 835 MHz, EUT Position: Back

Measurement Data

Crest Factor : 1
Area Scan : 6x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Low - 824.73MHz

Power Drift-Start : 0.228 W/kg
Power Drift-Finish: 0.235 W/kg
Power Drift (%) : 2.900



1 gram SAR value : 0.293 W/kg
10 gram SAR value : 0.183 W/kg
Area Scan Peak SAR : 0.339 W/kg
Zoom Scan Peak SAR : 0.480 W/kg

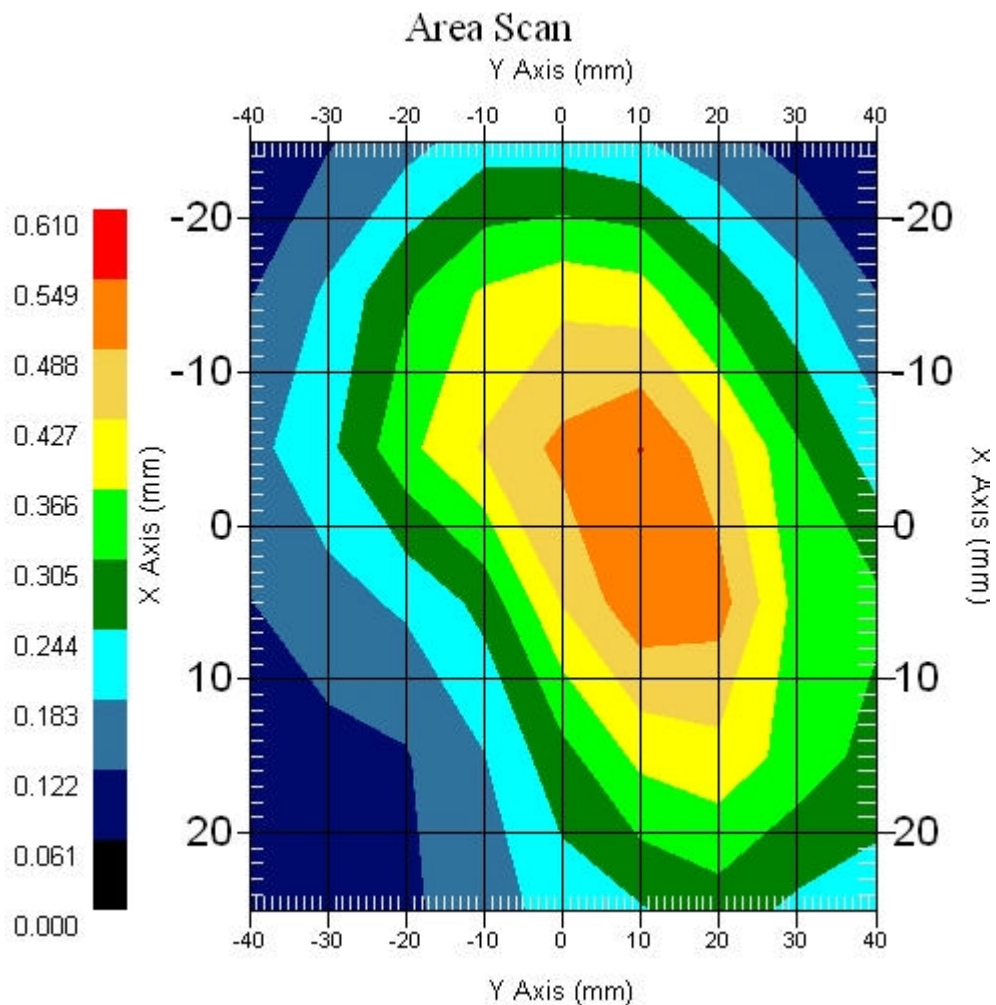
1.5 835 MHz, EUT Position: Back

Measurement Data

Crest Factor : 1
Area Scan : 6x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Mid - 836.4MHz

Power Drift-Start : 0.499 W/kg
Power Drift-Finish: 0.509 W/kg
Power Drift (%) : 1.907



1 gram SAR value : 0.530 W/kg
10 gram SAR value : 0.320 W/kg
Area Scan Peak SAR : 0.550 W/kg
Zoom Scan Peak SAR : 0.910 W/kg

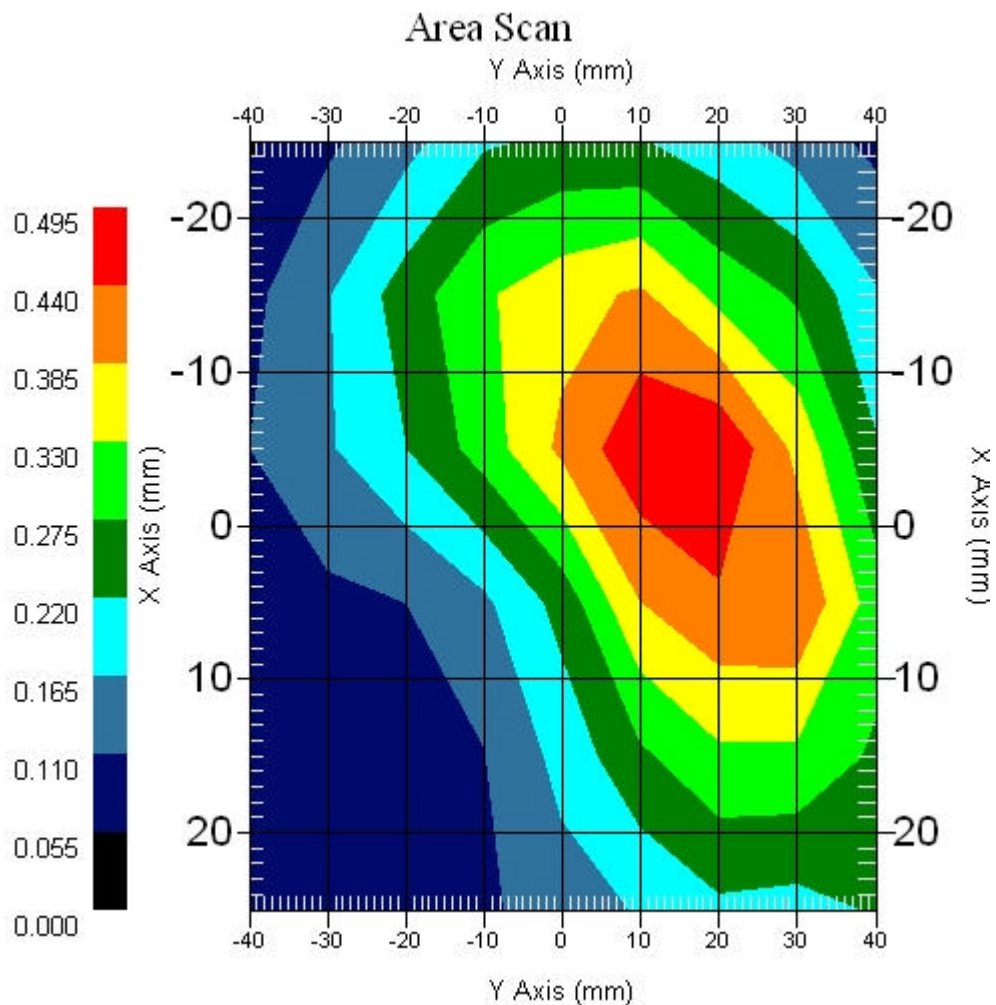
1.6 835 MHz, EUT Position: Back

Measurement Data

Crest Factor : 1
Area Scan : 6x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : High - 848.19MHz

Power Drift-Start : 0.311 W/kg
Power Drift-Finish: 0.315 W/kg
Power Drift (%) : 1.286



1 gram SAR value : 0.423 W/kg
10 gram SAR value : 0.265 W/kg
Area Scan Peak SAR : 0.493 W/kg
Zoom Scan Peak SAR : 0.670 W/kg

1.7 835 MHz, EUT Position: Side

RTAP_SAR Test Report

Report Date : 24-Oct-2006
Measurement Date : 24-Oct-2006

Product Data

Device Name : A790
Serial No. : side
Type : Other
Model : 1
Frequency : 835.00 MHz
Max. Transmit Pwr : 0.21 W
Drift Time : 0 min(s)
Length : 25 mm
Width : 140 mm
Depth : 2 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 835BODY
Frequency : 835.00 MHz
Last Calib. Date : 24-Oct-2006
Temperature : 23.60 °C
Ambient Temp. : 23.80 °C
Humidity : 55.00 RH%
Epsilon : 53.97 F/m
Sigma : 0.98 S/m
Density : 1000.00 kg/cu. m

Probe Data

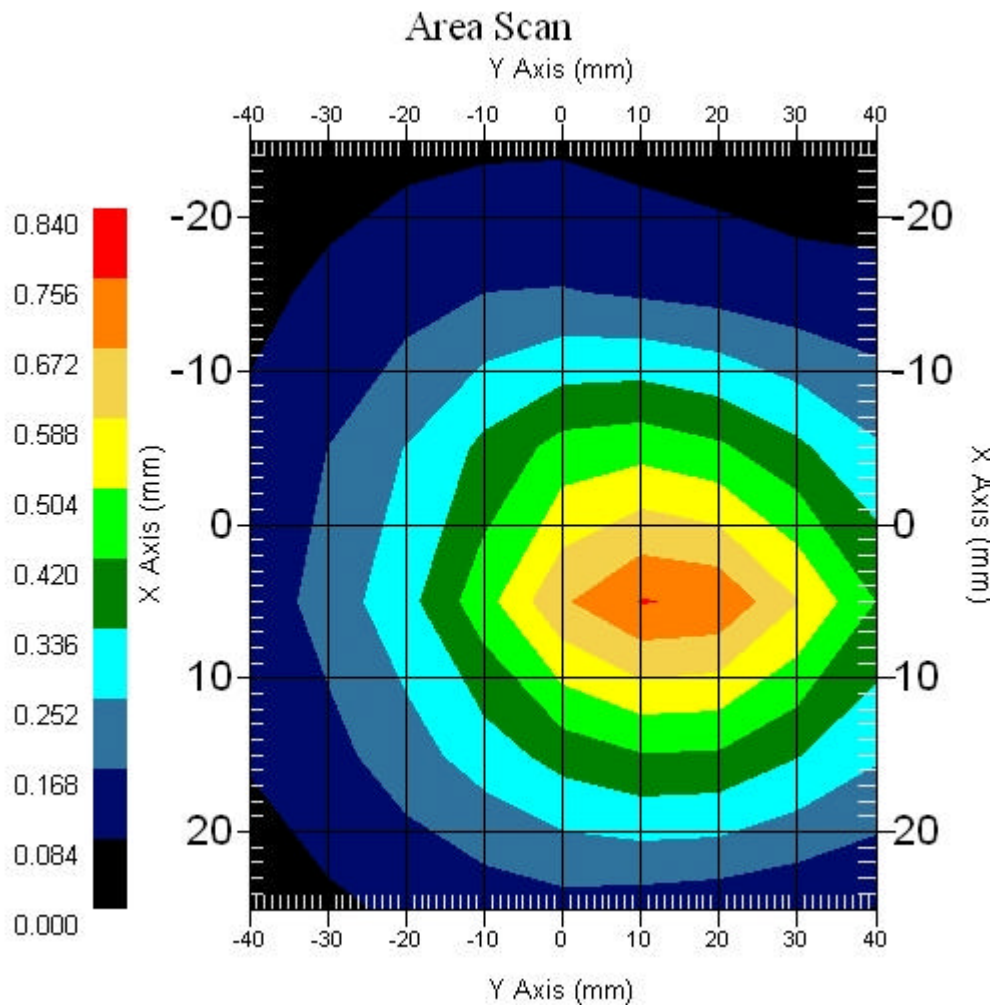
Name : E-field Probe
Model : ALS-E-020
Type : E-Field Triangle
Serial No. : 266
Last Calib. Date : 22-Jun-2006
Frequency : 835.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 6.9
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Area Scan : 6x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Mid - 836.4MHz

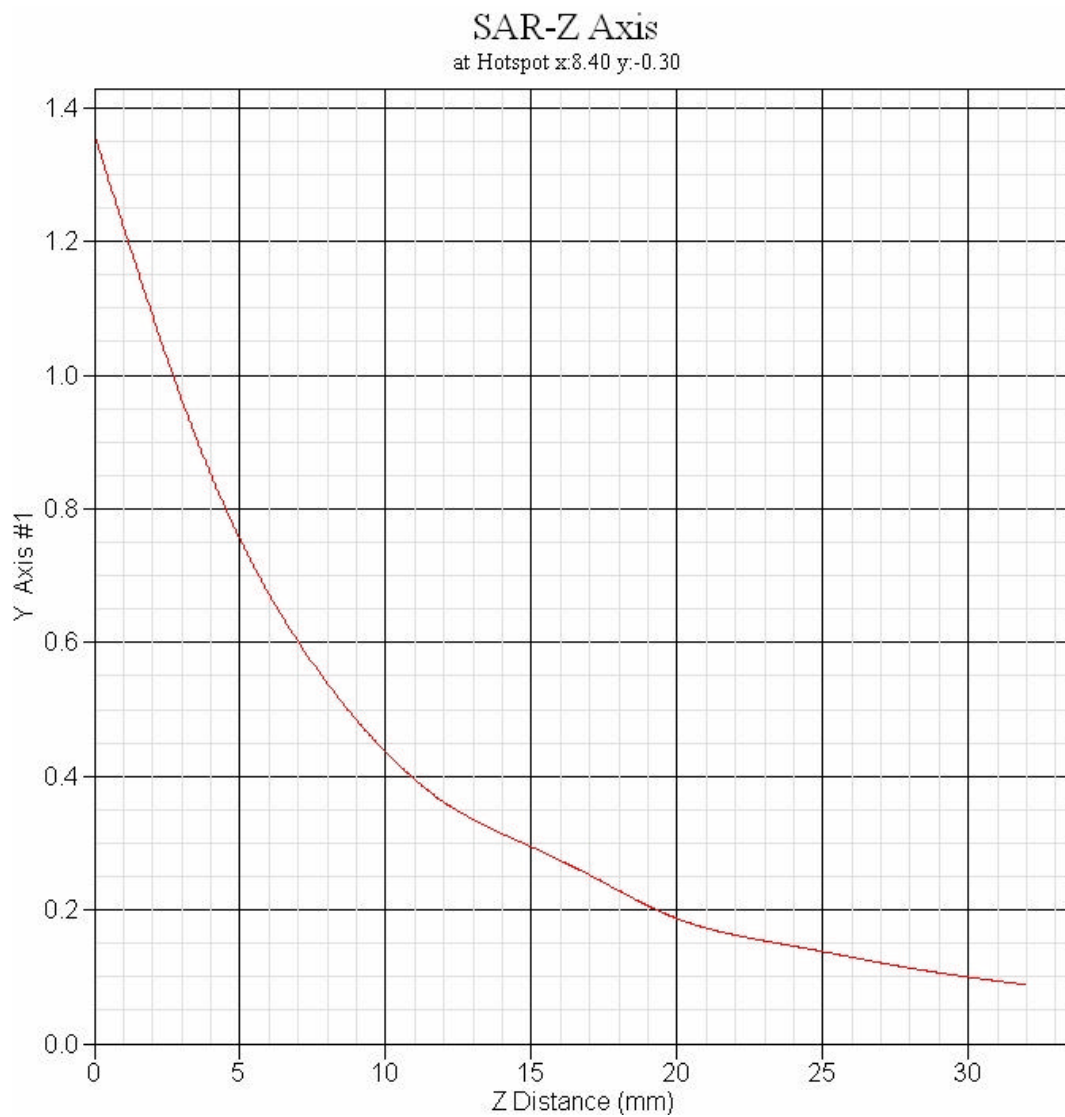
Power Drift-Start : 0.585 W/kg
Power Drift-Finish: 0.591 W/kg
Power Drift (%) : 1.025



1 gram SAR value : 0.654 W/kg
10 gram SAR value : 0.370 W/kg
Area Scan Peak SAR : 0.760 W/kg
Zoom Scan Peak SAR : 1.141 W/kg

1.8 Z-Axis plot

Frequency: 835MHz FTAP, EUT Side



2 1900 MHz SAR measurement Data

FTAP_SAR Test Report

Report Date : 24-Oct-2006
Measurement Date : 24-Oct-2006

Product Data

Device Name : A790
Serial No. : side
Type : Other
Frequency : 1900.00 MHz
Max. Transmit Pwr : 0.21 W
Drift Time : 0 min(s)
Length : 25 mm
Width : 140 mm
Depth : 2 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 1900BODY
Frequency : 1900.00 MHz
Last Calib. Date : 24-Oct-2006
Temperature : 23.60 °C
Ambient Temp. : 23.80 °C
Humidity : 56.00 RH%
Epsilon : 53.02 F/m
Sigma : 1.53 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 : 1900.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 5.41
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

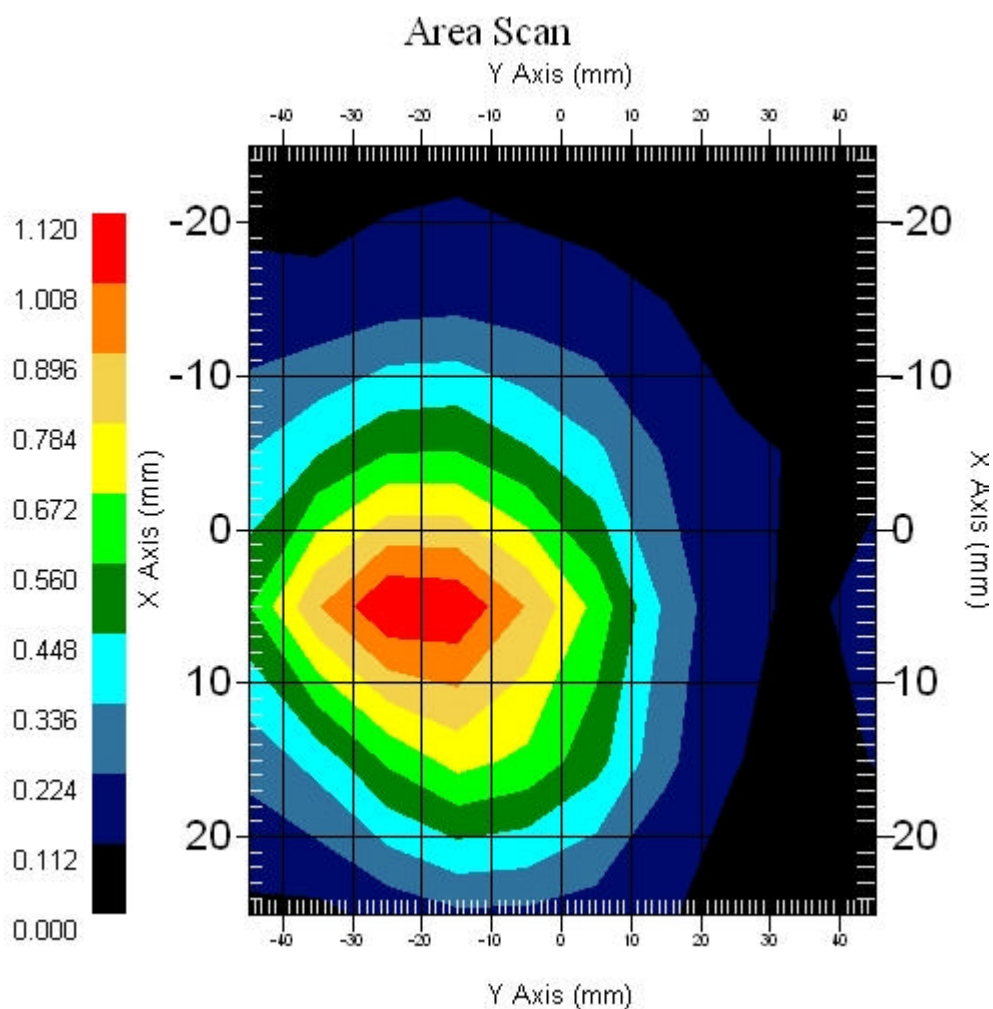
2.1 1900 MHz, EUT Position: Side

Measurement Data

Crest Factor : 1
Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Low - 1851.25MHz

Power Drift-Start : 0.645 W/kg
Power Drift-Finish: 0.655 W/kg
Power Drift (%) : 3.007



1 gram SAR value : 1.036 W/kg
10 gram SAR value : 0.551 W/kg
Area Scan Peak SAR : 1.115 W/kg
Zoom Scan Peak SAR : 1.931 W/kg

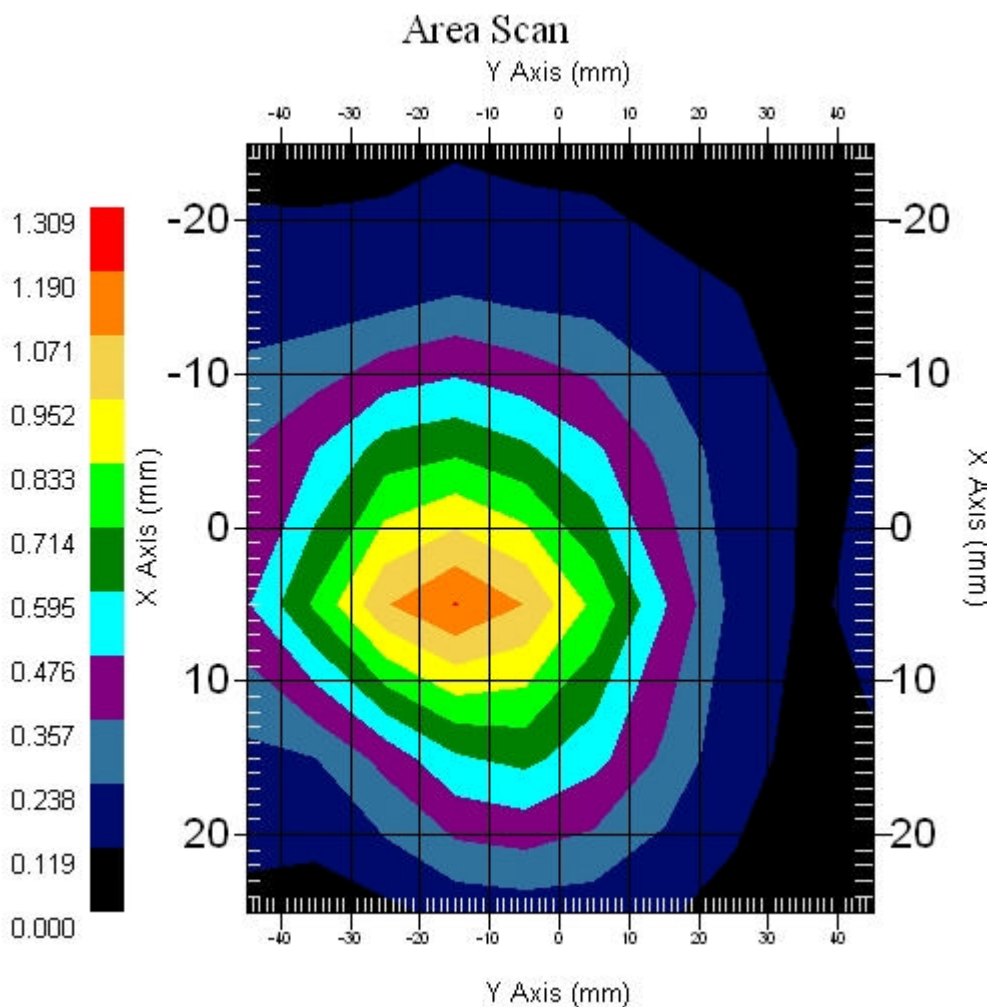
2.2 1900 MHz, EUT Position: Side

Measurement Data

Crest Factor : 1
Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Mid - 1880MHz

Power Drift-Start : 0.817 W/kg
Power Drift-Finish: 0.804 W/kg
Power Drift (%) : -1.591



1 gram SAR value : 0.951 W/kg
10 gram SAR value : 0.491 W/kg
Area Scan Peak SAR : 1.194 W/kg
Zoom Scan Peak SAR : 1.741 W/kg

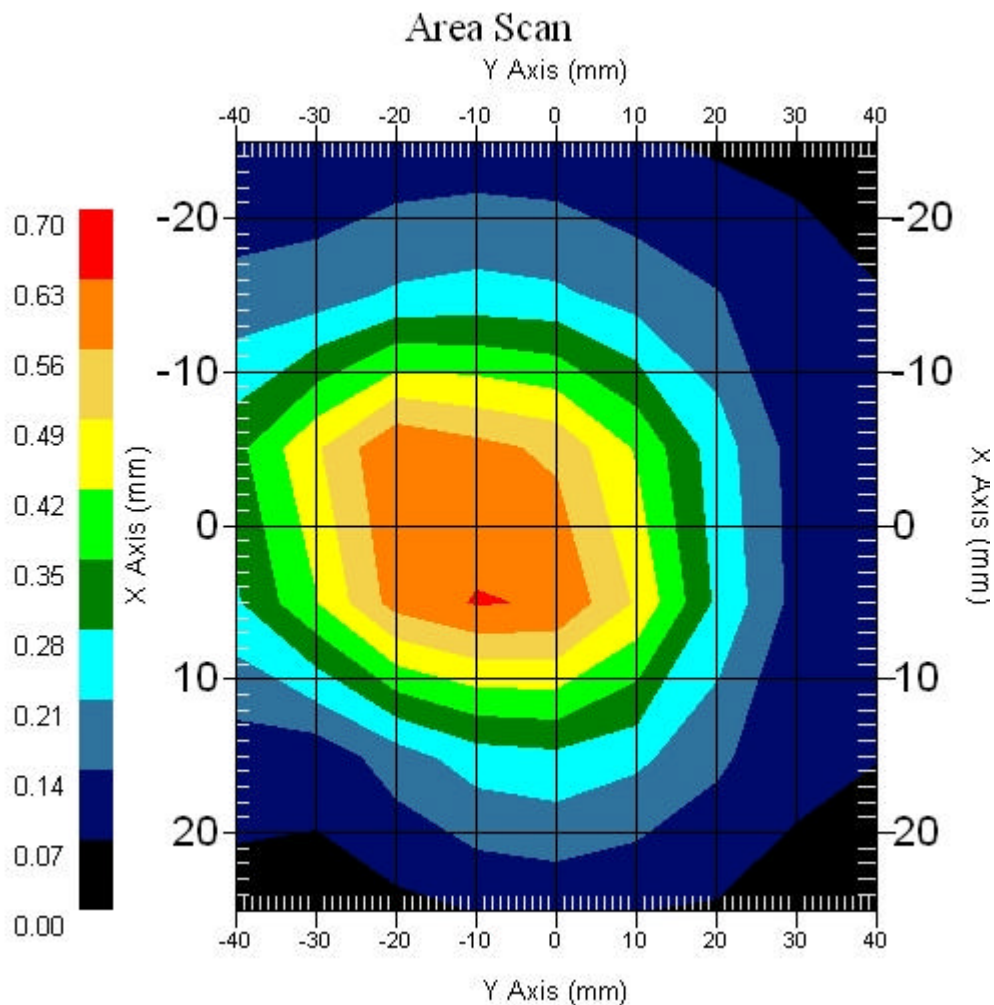
2.3 1900 MHz, EUT Position: Side

Measurement Data

Crest Factor : 1
Area Scan : 6x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : High - 1908.75MHz

Power Drift-Start : 0.660 W/kg
Power Drift-Finish: 0.649 W/kg
Power Drift (%) : -1.667



1 gram SAR value : 0.661 W/kg
10 gram SAR value : 0.336 W/kg
Area Scan Peak SAR : 0.634 W/kg
Zoom Scan Peak SAR : 1.291 W/kg

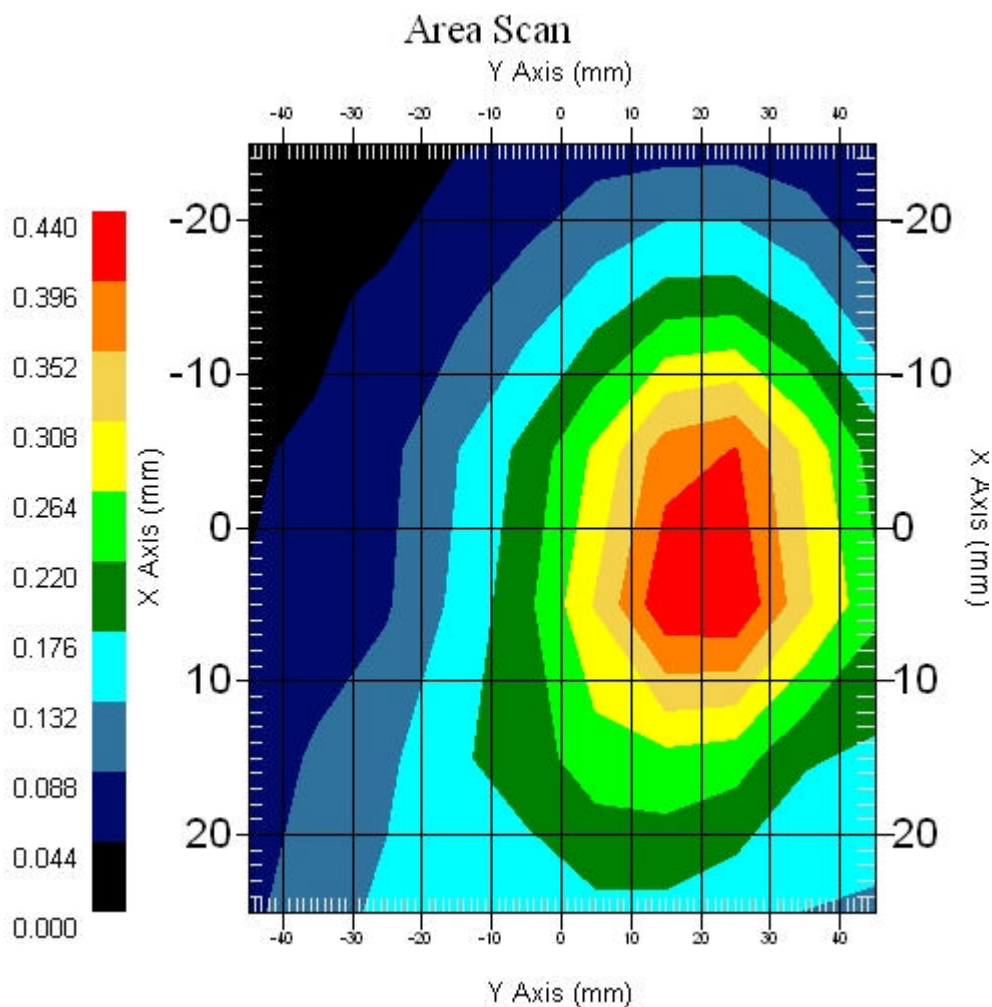
2.4 1900 MHz, EUT Position: Back

Measurement Data

Crest Factor : 1
 Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
 Channel : Low - 1851.25MHz

Power Drift-Start : 0.251 W/kg
 Power Drift-Finish: 0.256 W/kg
 Power Drift (%) : 1.992



1 gram SAR value : 0.392 W/kg
 10 gram SAR value : 0.222 W/kg
 Area Scan Peak SAR : 0.439 W/kg
 Zoom Scan Peak SAR : 0.720 W/kg

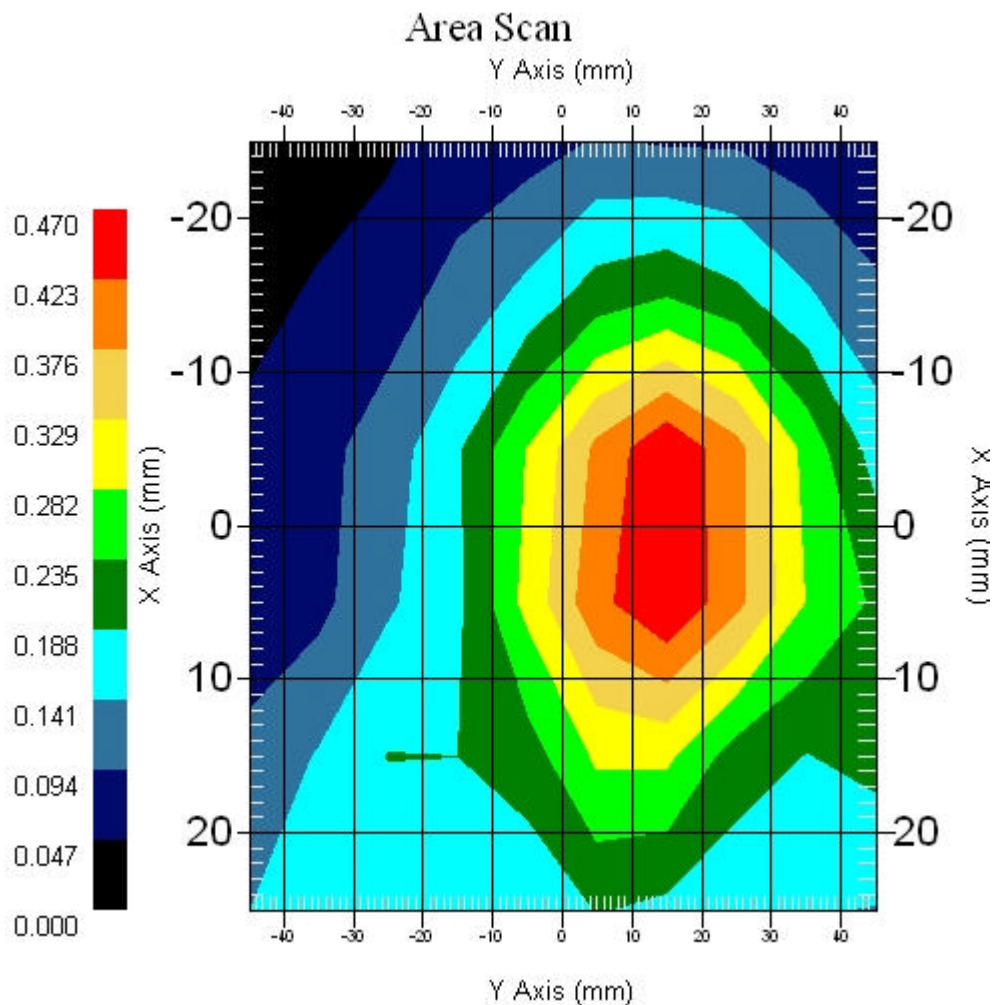
2.5 1900 MHz, EUT Position: Back

Measurement Data

Crest Factor : 1
Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Mid - 1880MHz

Power Drift-Start : 0.389 W/kg
Power Drift-Finish: 0.381 W/kg
Power Drift (%) : -2.056



1 gram SAR value : 0.452 W/kg
10 gram SAR value : 0.256 W/kg
Area Scan Peak SAR : 0.469 W/kg
Zoom Scan Peak SAR : 0.780 W/kg

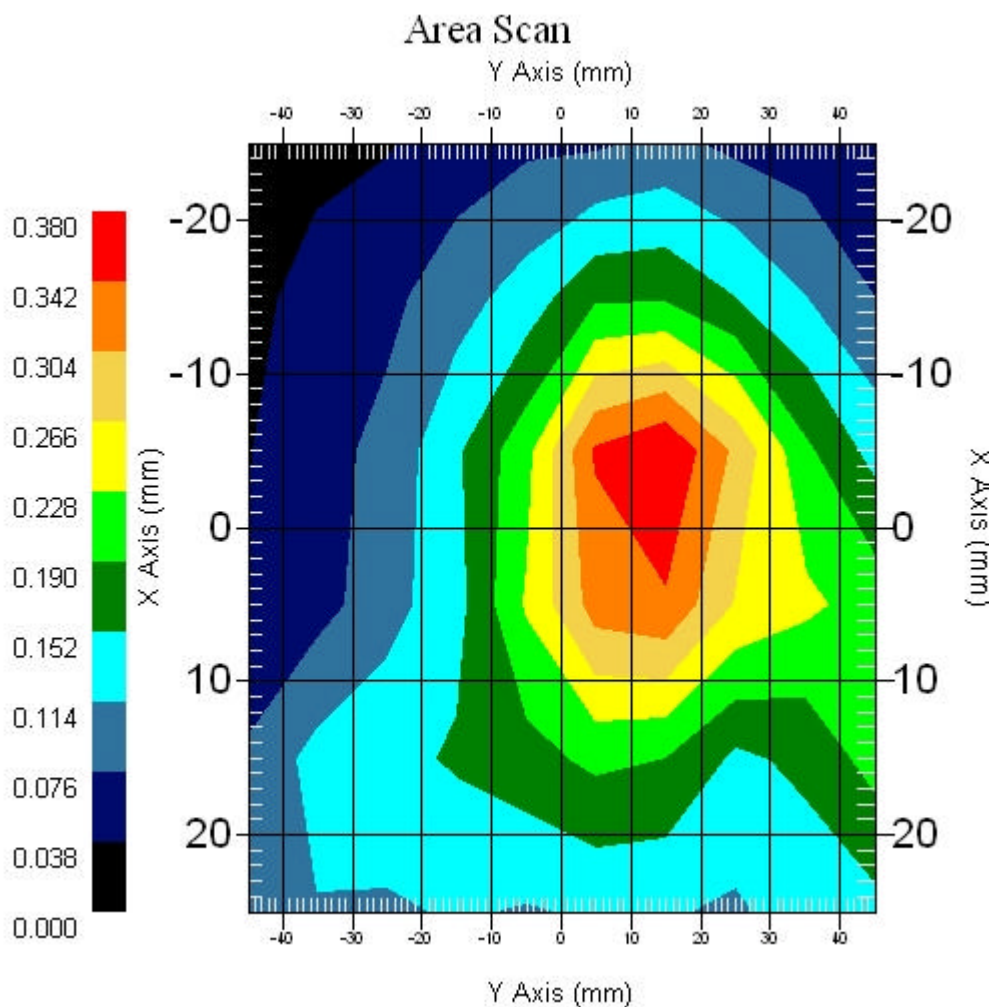
2.6 1900 MHz, EUT Position: Back

Measurement Data

Crest Factor : 1
Area Scan : 6x10x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : High - 1908.75MHz

Power Drift-Start : 0.325 W/kg
Power Drift-Finish: 0.321 W/kg
Power Drift (%) : -1.230



1 gram SAR value : 0.331 W/kg
10 gram SAR value : 0.190 W/kg
Area Scan Peak SAR : 0.377 W/kg
Zoom Scan Peak SAR : 0.550 W/kg

2.7 1900 MHz, EUT Position: Side

RTAP_SAR Test Report

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Measurement Date : 24-Oct-2006

Product Data

Device Name : A790
Serial No. : side
Type : Other
Frequency : 1900.00 MHz
Max. Transmit Pwr : 0.21 W
Drift Time : 0 min(s)
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Antenna Type : Internal

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
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Location : Center

Tissue Data

Type : BODY
Serial No. : 1900BODY
Frequency : 1900.00 MHz
Last Calib. Date : 24-Oct-2006
Temperature : 23.60 °C
Ambient Temp. : 23.80 °C
Humidity : 56.00 RH%
Epsilon : 53.02 F/m
Sigma : 1.53 S/m
Density : 1000.00 kg/cu. m

Probe Data

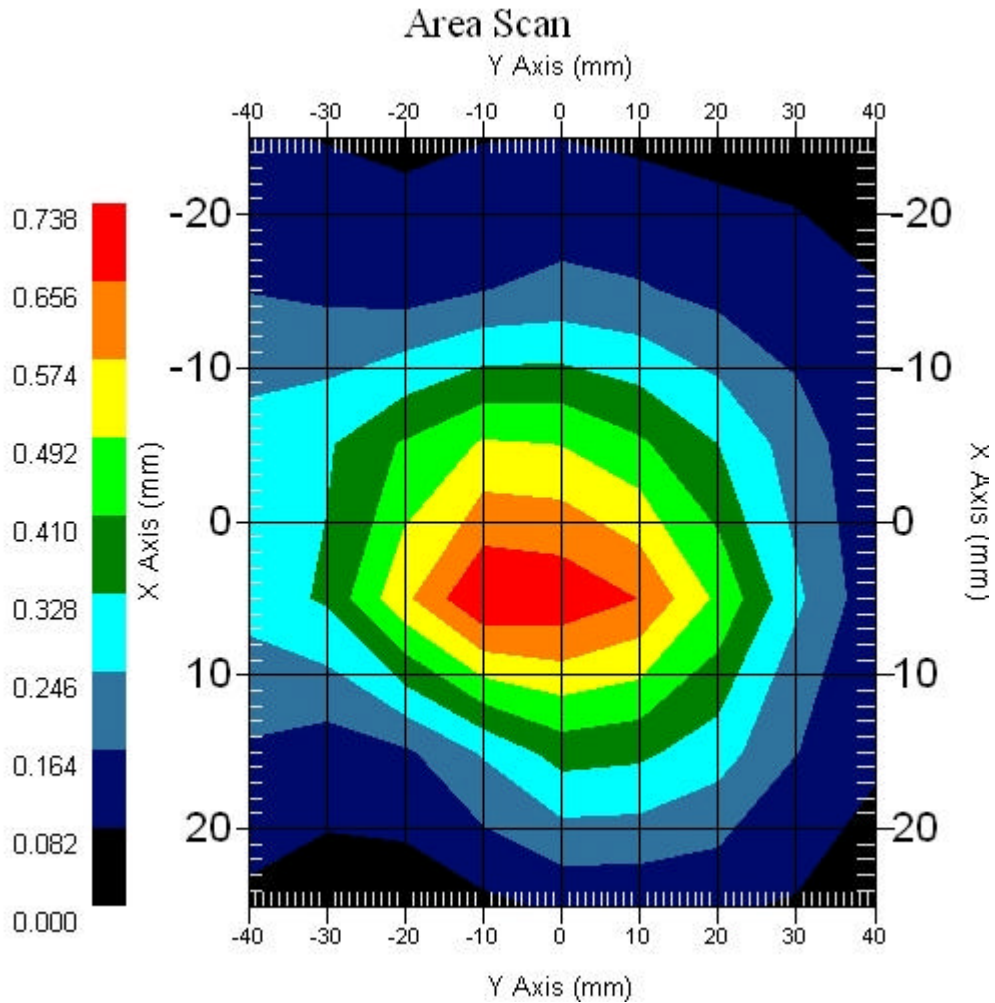
Name : E-field Probe
Model : ALS-E-020
Type : E-Field Triangle
Serial No. : 266
Last Calib. Date : 22-Jun-2006
Frequency : 1900.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 5.41
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Area Scan : 6x9x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

DUT Position : Touch
Channel : Mid - 1880MHz

Power Drift-Start : 0.700 W/kg
Power Drift-Finish: 0.693 W/kg
Power Drift (%) : -1.105



1 gram SAR value : 0.678 W/kg
10 gram SAR value : 0.359 W/kg
Area Scan Peak SAR : 0.737 W/kg
Zoom Scan Peak SAR : 1.251 W/kg

2.8 Z-Axis plot

Frequency: 1900MHz FTAP, EUT Side

SAR-Z Axis
at Hotspot x:5.30 y:-17.00

