

Appendix D: SAR Measurement Data

WLAN

Data No.	Band	Mode	Test Position	Separation Distance (cm)	Channel	SAR 1g(W/kg)
1	2.4G	802.11b	Bottom	0	1	0.007
2	2.4G	802.11b	Bottom	0	6	0.008
3	2.4G	802.11b	Bottom	0	11	0.001
4	2.4G	802.11n20	Bottom	0	1	0.001
5	2.4G	802.11n20	Bottom	0	6	0.001
6	2.4G	802.11n20	Bottom	0	11	0.001
7	2.4G	BT LE	Bottom	0	39	0.001

Data No. 1:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 08:24:53 AM
End Time : 05-Dec-2013 08:45:04 AM
Scanning Time : 1211 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

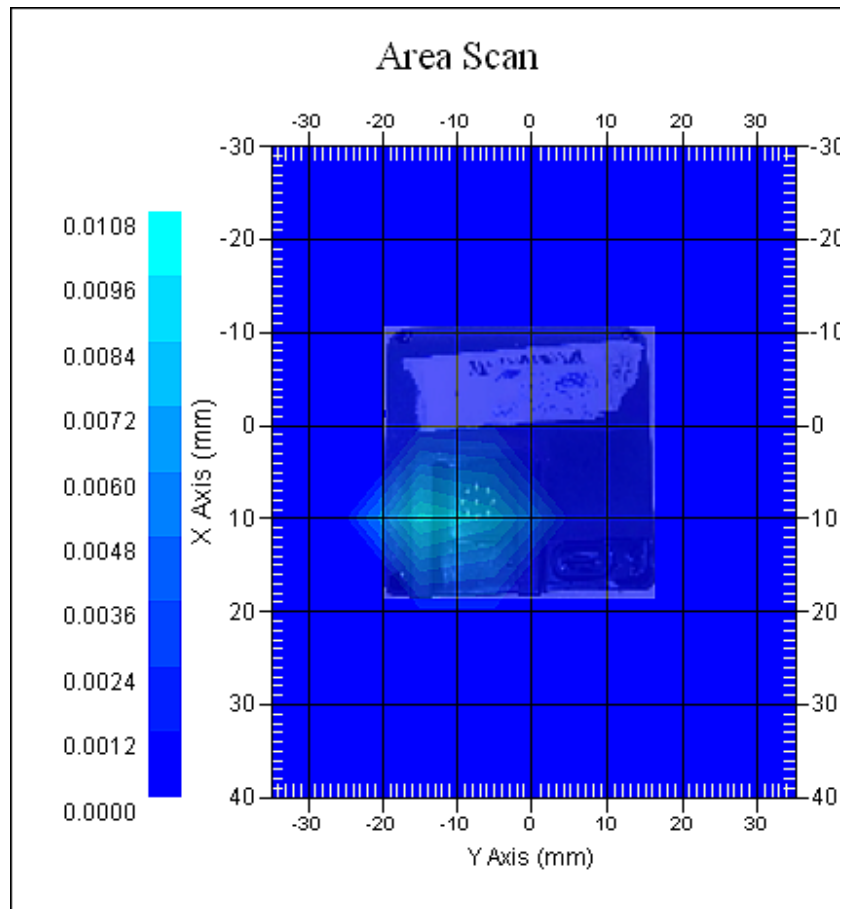
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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 : Low



The system detected 1 maxima.
Selected highest maxima # = 1.
Maxima #1 coordinates: X = 10.090, Y = -7.000
1 gram SAR value : 0.007 W/kg
10 gram SAR value : 0.002 W/kg
Area Scan Peak SAR : 0.010 W/kg
Zoom Scan Peak SAR : 0.020 W/kg

Maxima Summary:
Maxima #1
Maxima coordinates: X = 10.090, Y = -7.000
1 gram SAR value : 0.007 W/kg
10 gram SAR value : 0.002 W/kg
Area Scan Peak SAR : 0.010 W/kg
Zoom Scan Peak SAR : 0.020 W/kg

Data No. 2:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 10:12:18 AM
End Time : 05-Dec-2013 10:32:33 AM
Scanning Time : 1215 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

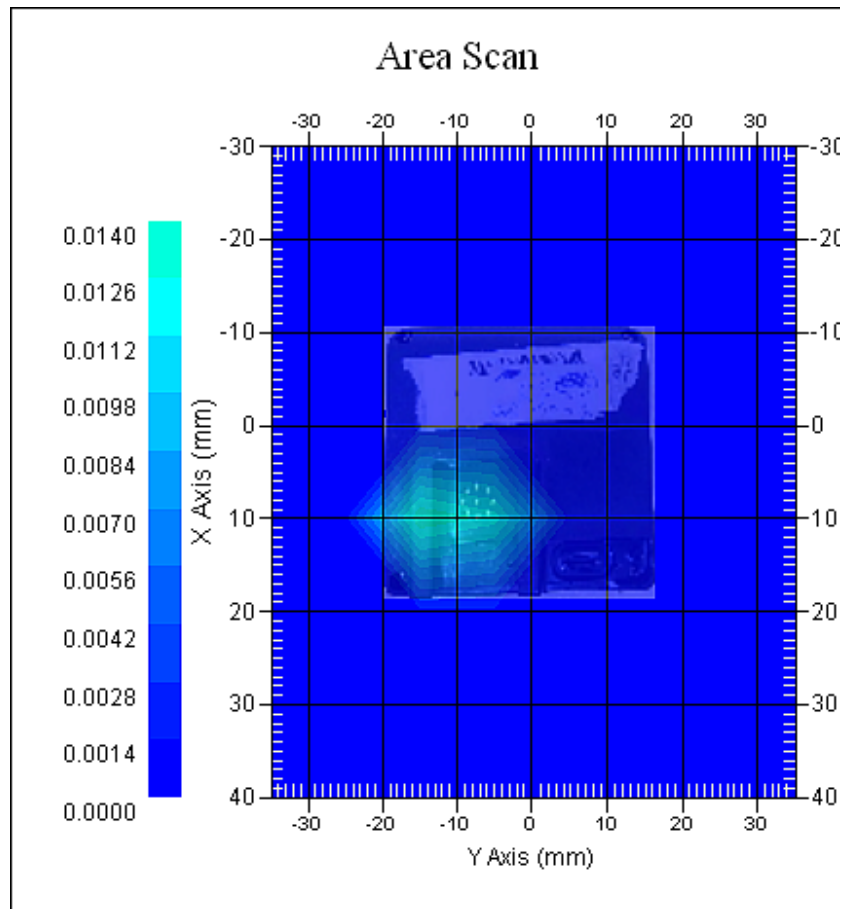
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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



The system detected 1 maxima.
 Selected highest maxima # = 1.
 Maxima #1 coordinates: X = 10.120, Y = -7.000
 1 gram SAR value : 0.008 W/kg
 10 gram SAR value : 0.003 W/kg
 Area Scan Peak SAR : 0.014 W/kg
 Zoom Scan Peak SAR : 0.030 W/kg

Maxima Summary:
 Maxima #1
 Maxima coordinates: X = 10.120, Y = -7.000
 1 gram SAR value : 0.008 W/kg
 10 gram SAR value : 0.003 W/kg
 Area Scan Peak SAR : 0.014 W/kg
 Zoom Scan Peak SAR : 0.030 W/kg

Data No. 3:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 09:49:15 AM
End Time : 05-Dec-2013 10:09:42 AM
Scanning Time : 1227 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

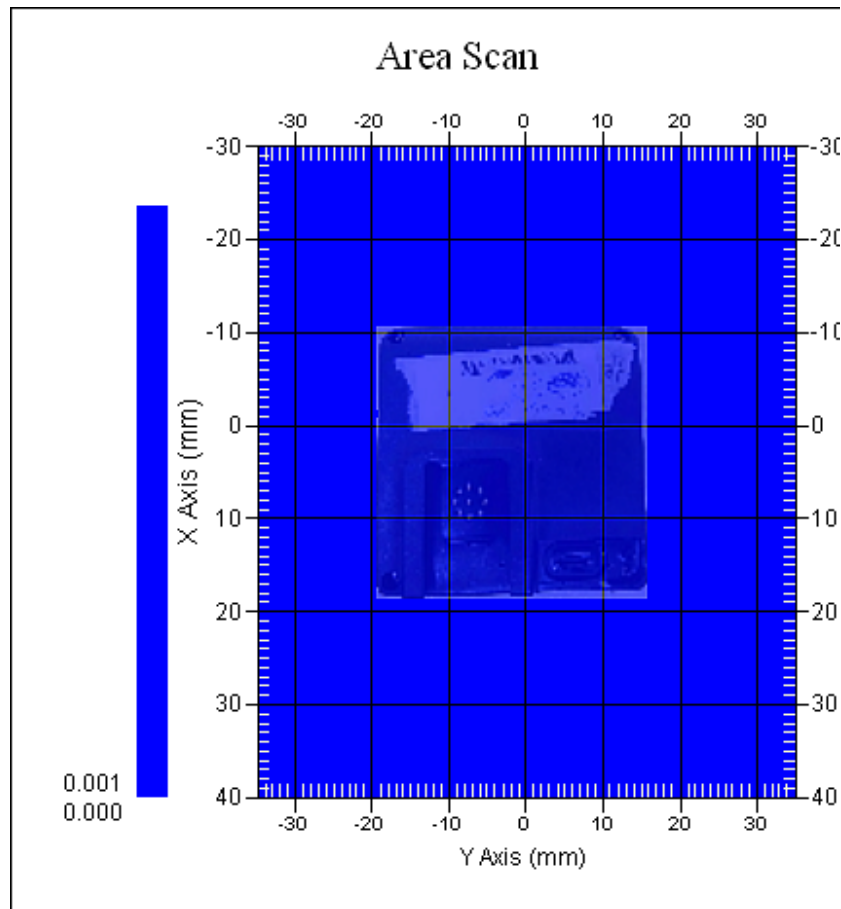
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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 : High



The system detected 1 maxima.
 Selected highest maxima # = 1.
 Maxima #1 coordinates: X = 23.120, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Maxima Summary:
 Maxima #1
 Maxima coordinates: X = 23.120, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Data No. 4:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 11:11:07 AM
End Time : 05-Dec-2013 11:31:31 AM
Scanning Time : 1224 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

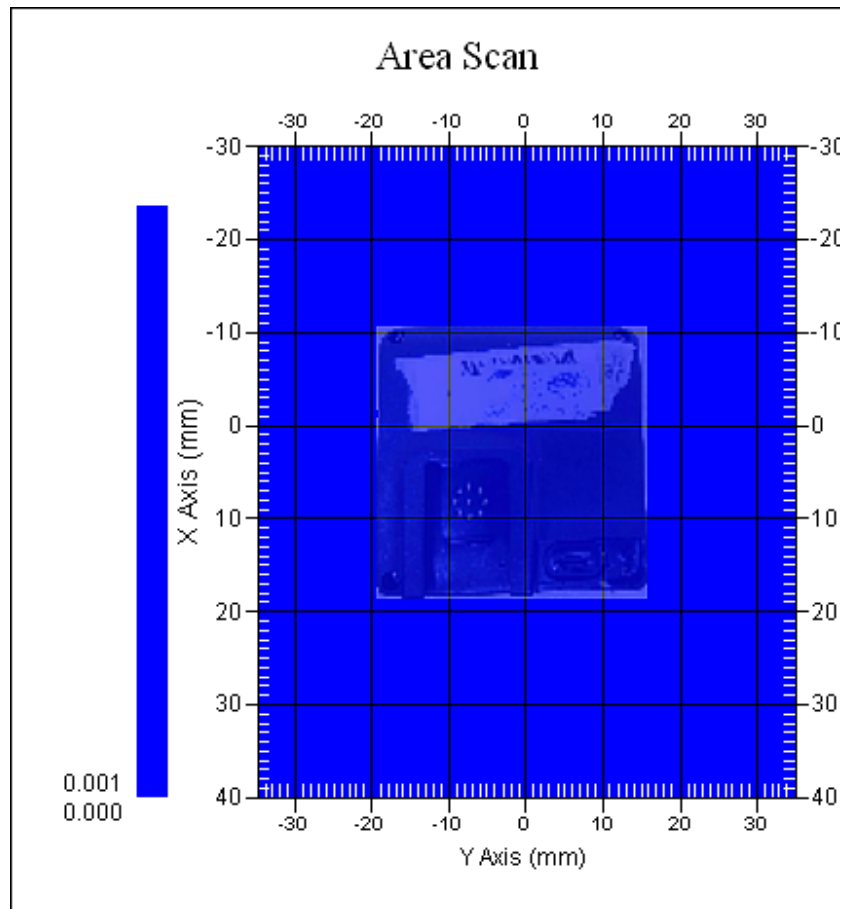
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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 : Low



The system detected 1 maxima.
 Selected highest maxima # = 1.
 Maxima #1 coordinates: X = 23.090, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Maxima Summary:
 Maxima #1
 Maxima coordinates: X = 23.090, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Data No. 5:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 12:02:09 PM
End Time : 05-Dec-2013 12:22:28 PM
Scanning Time : 1219 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

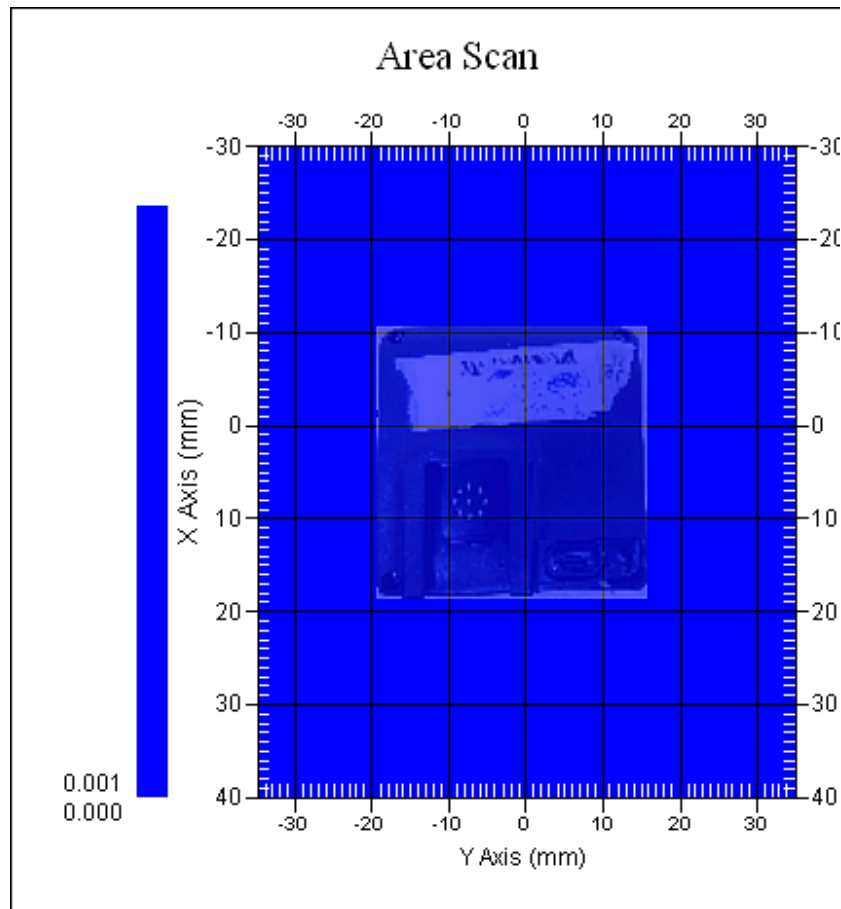
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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



The system detected 1 maxima.
 Selected highest maxima # = 1.
 Maxima #1 coordinates: X = 23.140, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Maxima Summary:
 Maxima #1
 Maxima coordinates: X = 23.140, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Data No. 6:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 12:25:56 PM
End Time : 05-Dec-2013 12:46:22 PM
Scanning Time : 1226 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

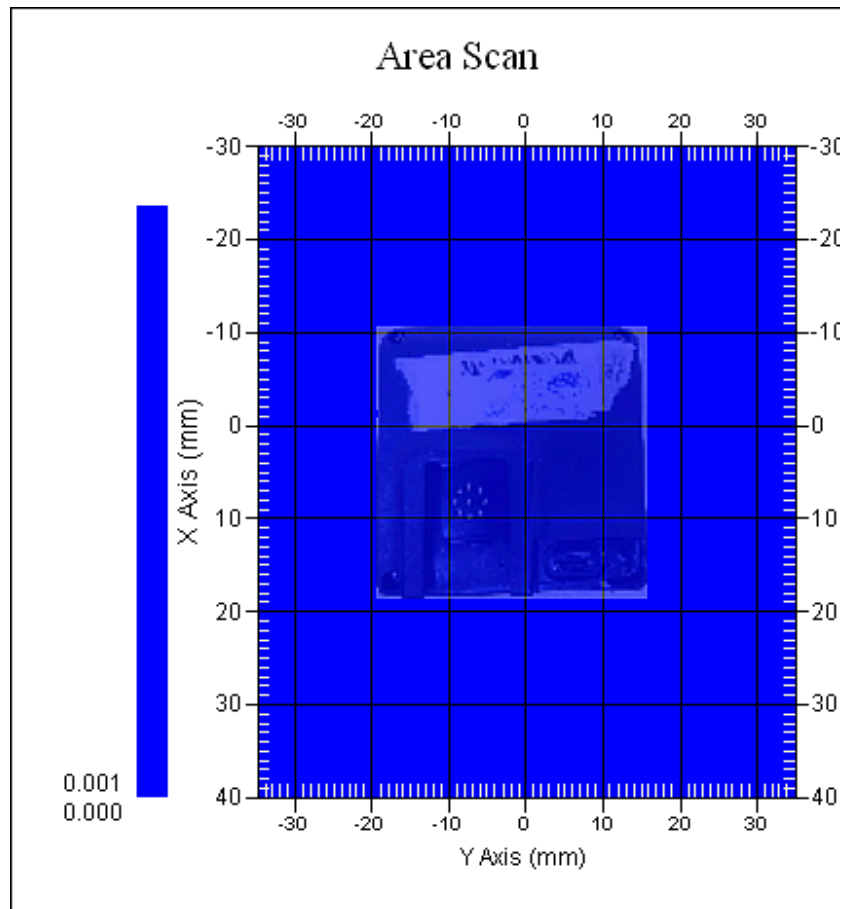
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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 : High



The system detected 1 maxima.
Selected highest maxima # = 1.
Maxima #1 coordinates: X = 23.090, Y = 17.900
1 gram SAR value : 0.001 W/kg
10 gram SAR value : 0.001 W/kg
Area Scan Peak SAR : 0.001 W/kg
Zoom Scan Peak SAR : 0.000 W/kg

Maxima Summary:
Maxima #1
Maxima coordinates: X = 23.090, Y = 17.900
1 gram SAR value : 0.001 W/kg
10 gram SAR value : 0.001 W/kg
Area Scan Peak SAR : 0.001 W/kg
Zoom Scan Peak SAR : 0.000 W/kg

Data No. 7:

Report Date : 05-Dec-2013
By Operator : 123
Measurement Date : 05-Dec-2013
Starting Time : 05-Dec-2013 11:32:41 AM
End Time : 05-Dec-2013 11:53:07 AM
Scanning Time : 1226 secs
Product Data
Device Name : 13LR243
Serial No. : NA
Type : Other
Model : SGX-CA500
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 1 min(s)
Length : 55 mm
Width : 55 mm
Depth : 2.5 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.001 W/kg
Power Drift-Finish: 0.000 W/kg
Power Drift (%) : 0.000
Picture : C:\alsas\bitmap\Device-3.bmp

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

Tissue Data
Type : BODY
Serial No. : 2450B
Frequency : 2450.00 MHz
Last Calib. Date : 05-Dec-2013
Temperature : 20.30 °C
Ambient Temp. : 20.30 °C
Humidity : 61.00 RH%
Epsilon (Dielectric Constant): 53.57
Sigma : 1.96 S/m
Density : 1000.00 kg/cu. m

Probe Data

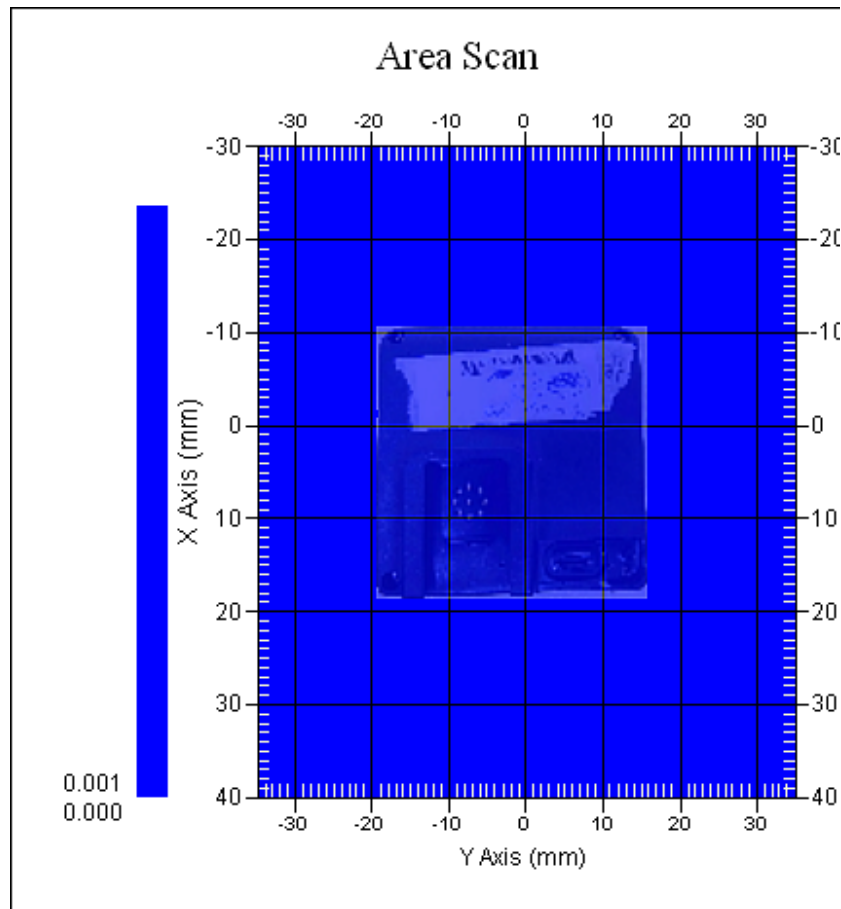
Name : E-field
Model : E-020
Type : E-Field Triangle
Serial No. : 500-00283
Last Calib. Date : 08-Oct-2013
Frequency : 2450.00 MHz
Duty Cycle Factor (CreF) : 1
Conversion Factor : 4.3
Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point : 9.50 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.30 °C
Ambient Temp. : 20.30 °C
Set-up Date : 05-Dec-2013
Set-up Time : 8:10:24 AM
Area Scan : 8x8x1 : 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



The system detected 1 maxima.
 Selected highest maxima # = 1.
 Maxima #1 coordinates: X = 23.090, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

Maxima Summary:
 Maxima #1
 Maxima coordinates: X = 23.090, Y = 17.900
 1 gram SAR value : 0.001 W/kg
 10 gram SAR value : 0.001 W/kg
 Area Scan Peak SAR : 0.001 W/kg
 Zoom Scan Peak SAR : 0.000 W/kg

SAR-Z Axis
at Hotspot x:10.09 y:-7.07

