

APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations.

Table 24: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Lap Held	-	A	6	-	06
	-	B	6	-	06
Tablet	1	A	6	-	06
	2	B	6	-	06
Secondary Landscape	3	A	6	-	06
	4	B	6	-	06
Primary Portrait	5	B	6	-	02
	6				06
	7				10

Table 25: 2450MHz System verification Plot

Plot 8	System verification 2450 MHz 13 th September 2010
Plot 9	System verification 2450 MHz 14 th September 2010



Test Date: 13 September 2010

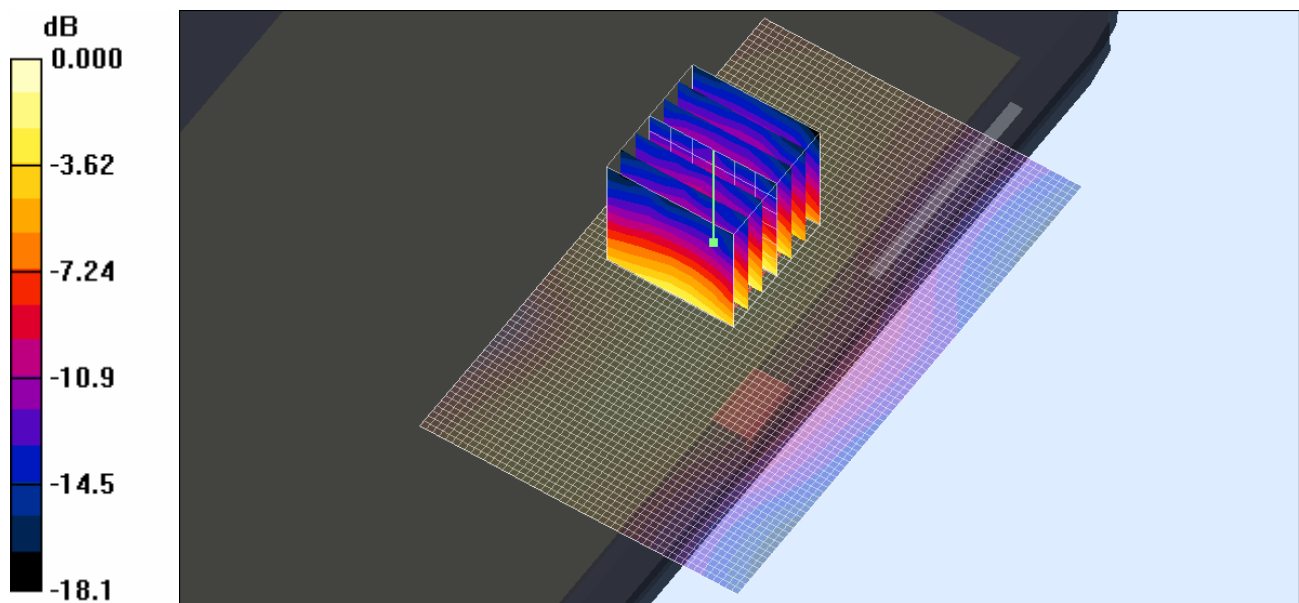
File Name: M100861 Tablet OFDM 2.4 GHz Antenna A (1) 13-09-10.da4

EUT: **Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.100 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 6.02 V/m; Power Drift = 0.393 dB
 Peak SAR (extrapolated) = 0.212 W/kg
SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.056 mW/g
 Maximum value of SAR (measured) = 0.114 mW/g

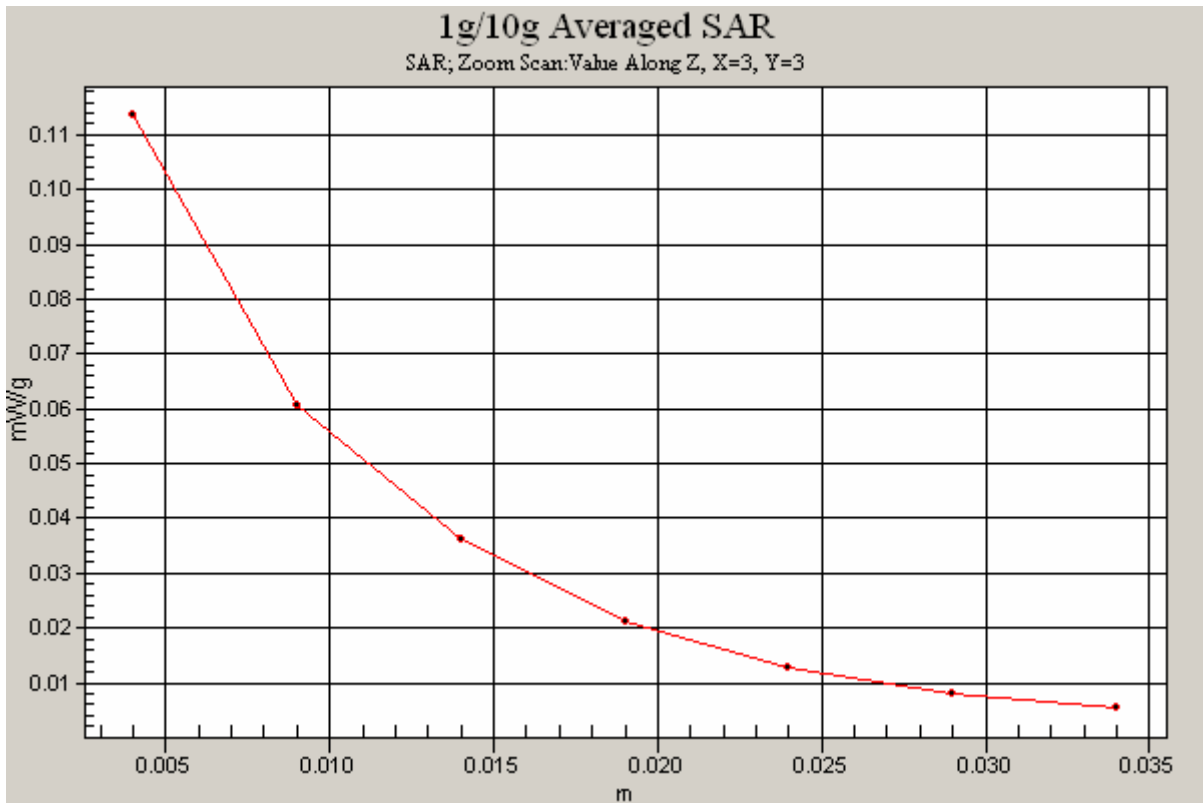


SAR MEASUREMENT PLOT 1

Ambient Temperature
 Liquid Temperature
 Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
43.0 %





Test Date: 13 September 2010

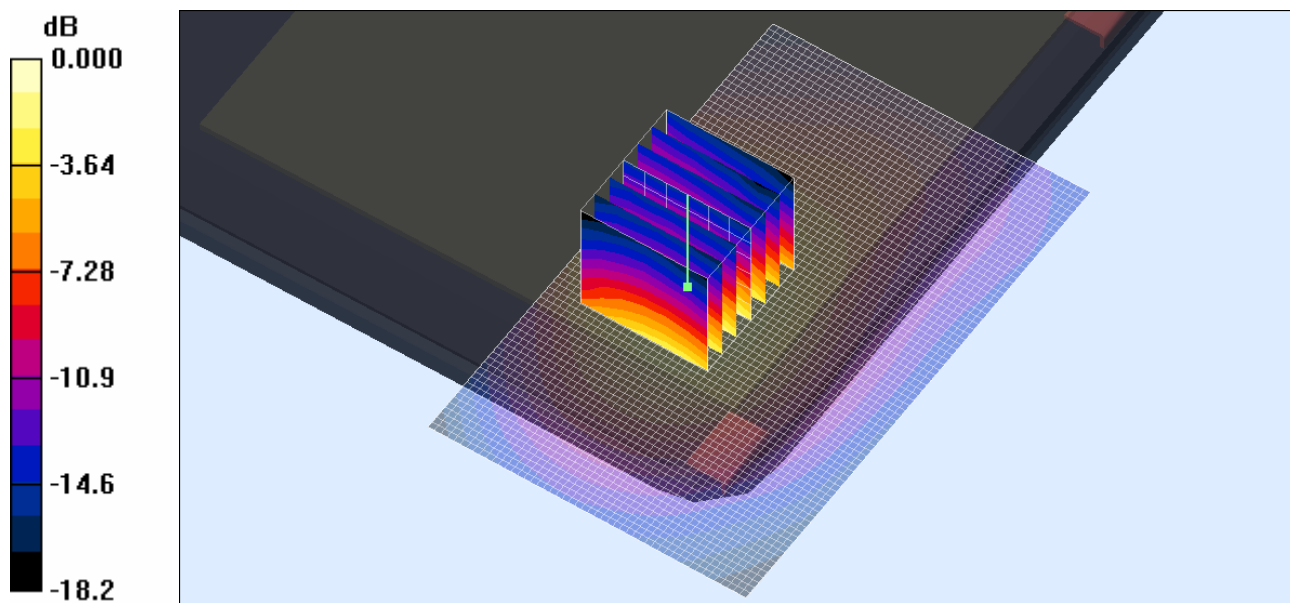
File Name: M100861 Tablet OFDM 2.4 GHz Antenna B (2) 13-09-10.da4

EUT: **Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.274 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 9.13 V/m; Power Drift = -0.072 dB
 Peak SAR (extrapolated) = 0.570 W/kg
SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.138 mW/g
 Maximum value of SAR (measured) = 0.285 mW/g

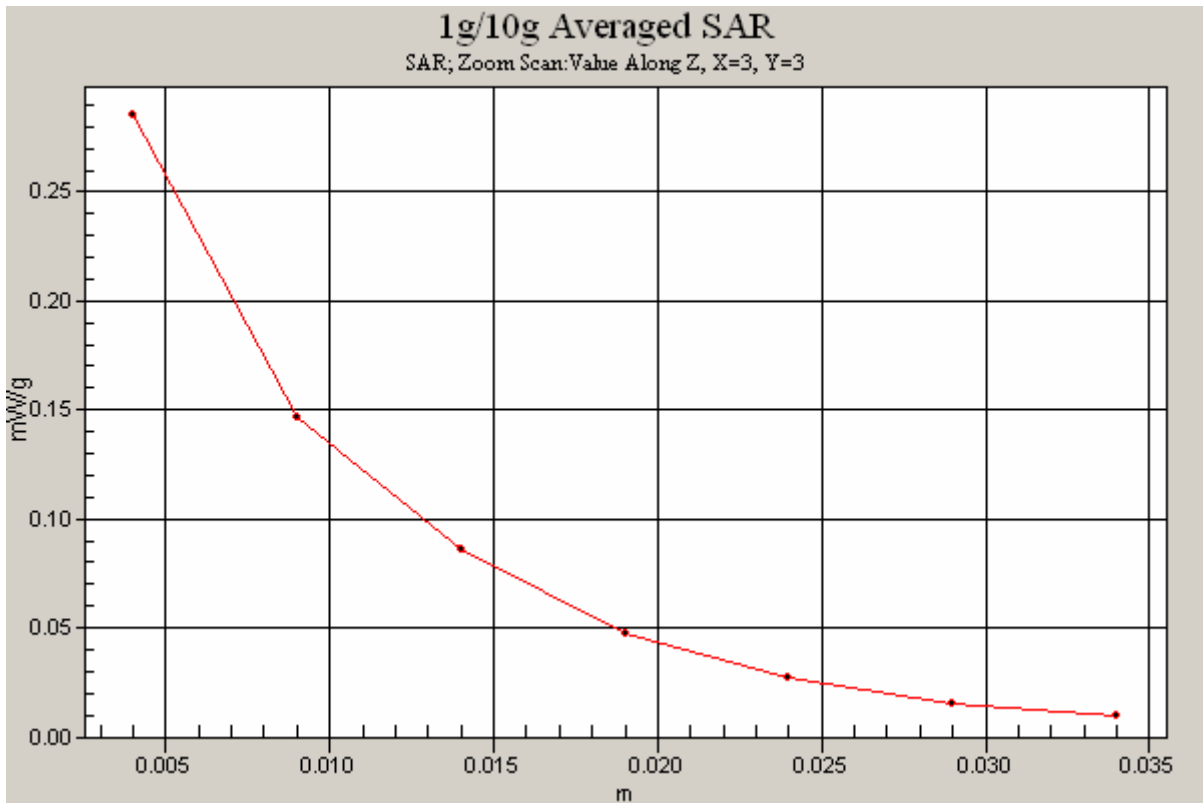


SAR MEASUREMENT PLOT 2

Ambient Temperature
 Liquid Temperature
 Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
43.0 %





Test Date: 14 September 2010

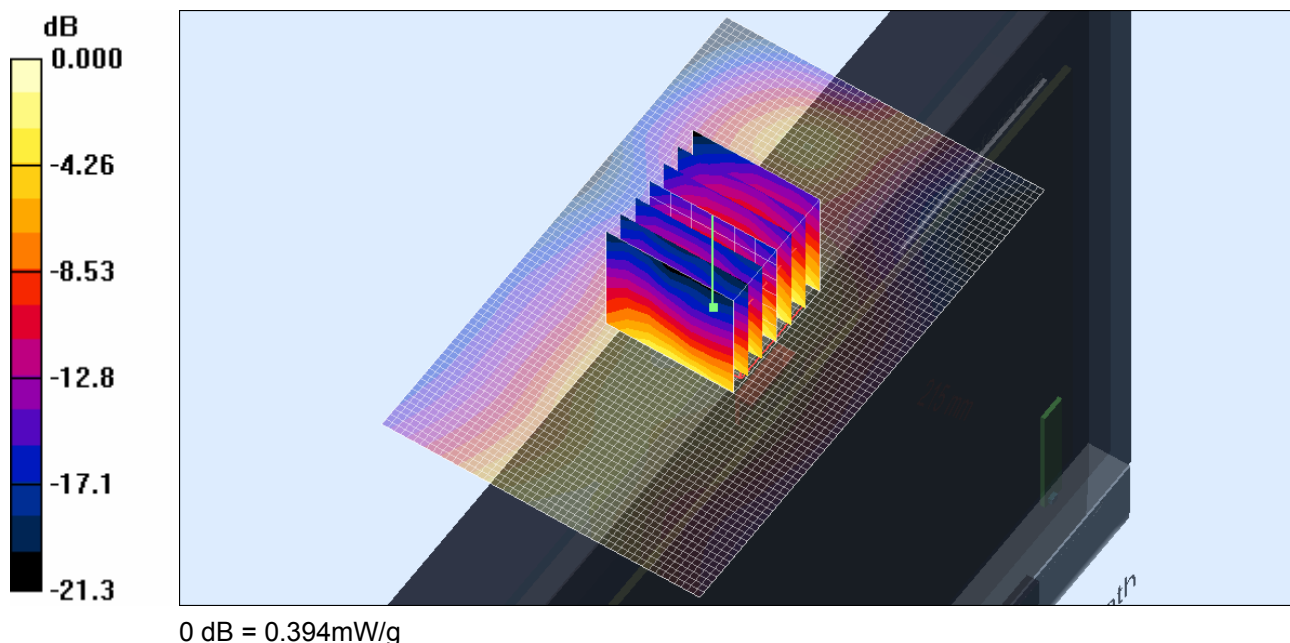
File Name: M100861_Secundary_Landscape_OFDM_2.4_GHz_Antenna_A_(1)_14-09-10.da4

EUT: **Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.419 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 12.1 V/m; Power Drift = 0.090 dB
 Peak SAR (extrapolated) = 0.761 W/kg
SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.189 mW/g
 Maximum value of SAR (measured) = 0.394 mW/g

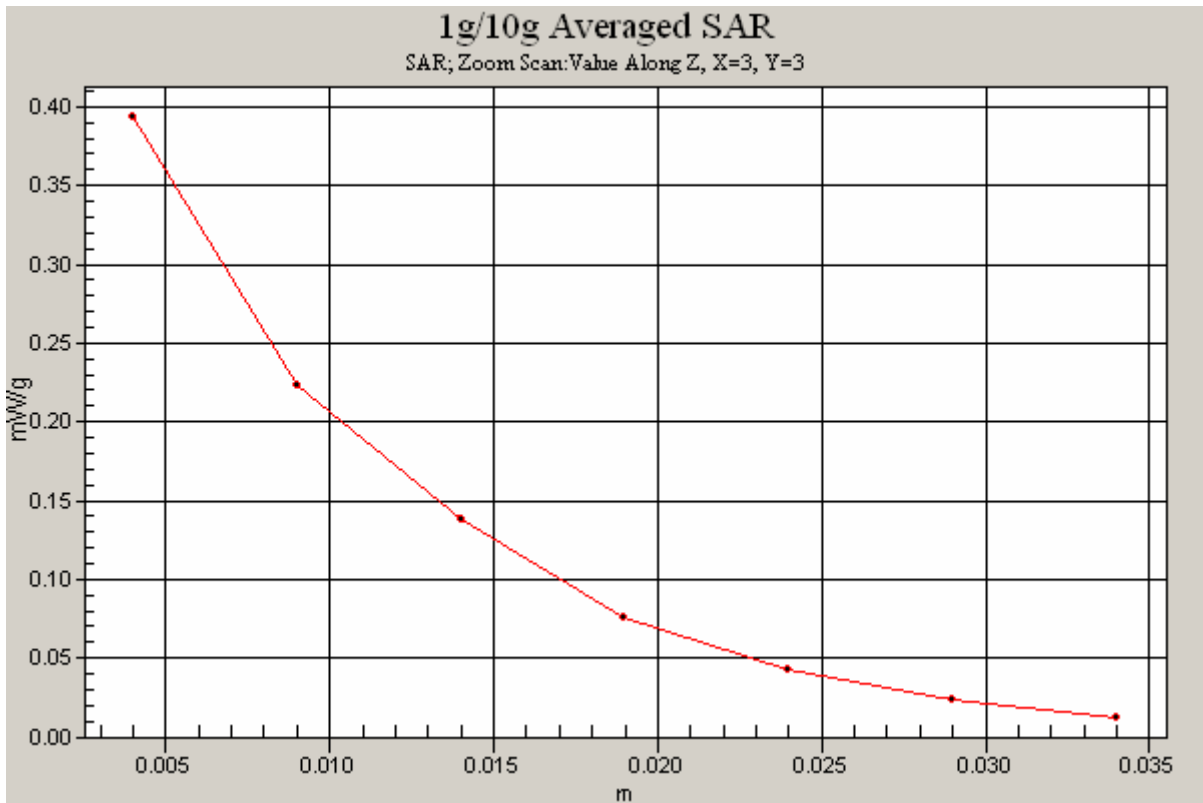


SAR MEASUREMENT PLOT 3

Ambient Temperature
 Liquid Temperature
 Humidity

21.3 Degrees Celsius
21.0 Degrees Celsius
38.0 %





Test Date: 14 September 2010

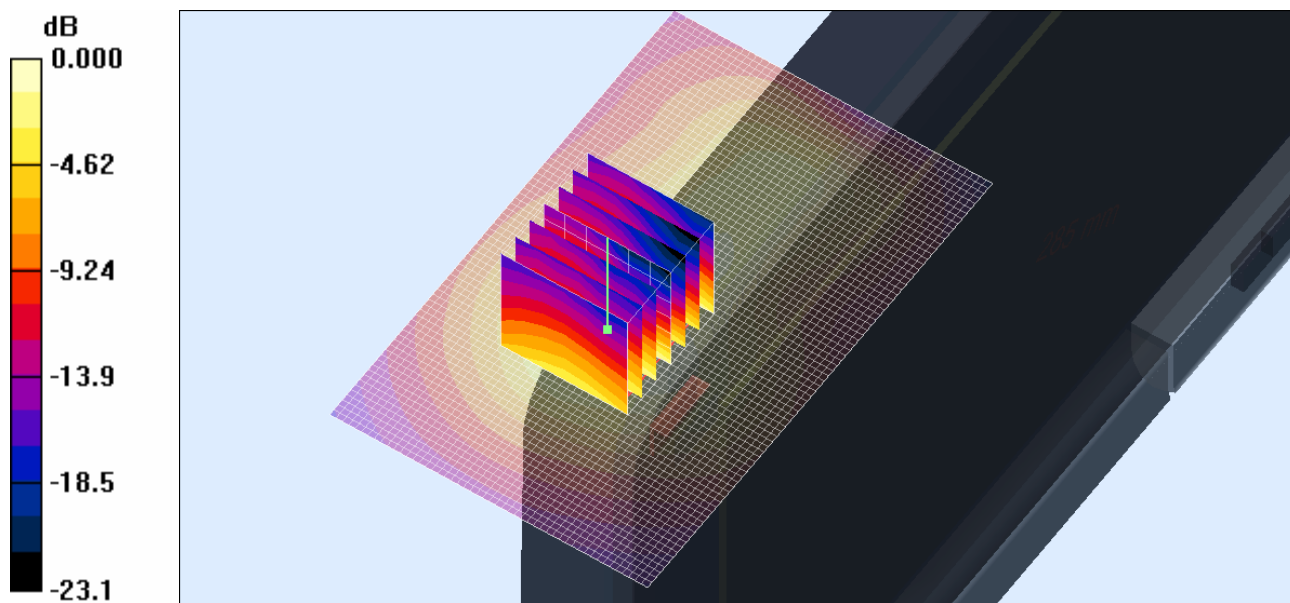
File Name: M100861_Secundary_Landscape_OFDM_2.4_GHz_Antenna_B_(2)_14-09-10.da4

EUT: **Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.321 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 10.5 V/m; Power Drift = -0.052 dB
 Peak SAR (extrapolated) = 0.759 W/kg
SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.149 mW/g
 Maximum value of SAR (measured) = 0.326 mW/g



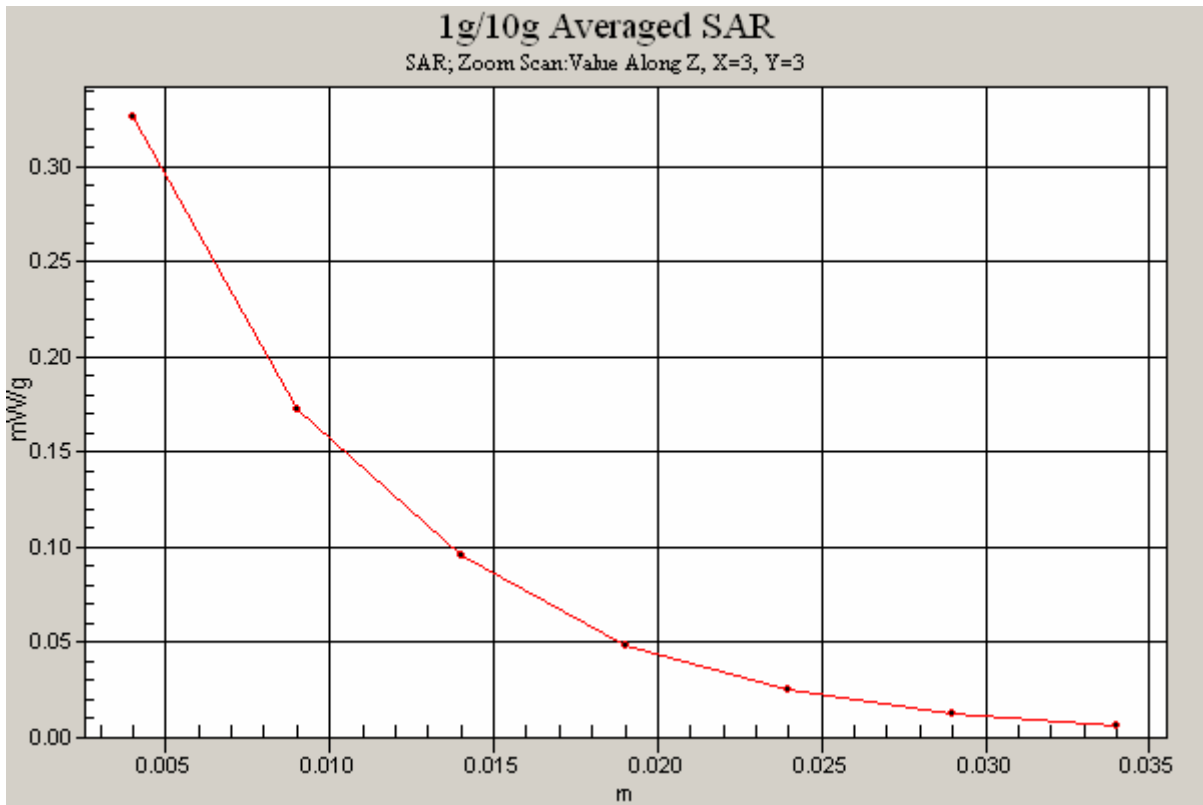
0 dB = 0.326mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
 Liquid Temperature
 Humidity

21.3 Degrees Celsius
21.0 Degrees Celsius
38.0 %





Test Date: 14 September 2010

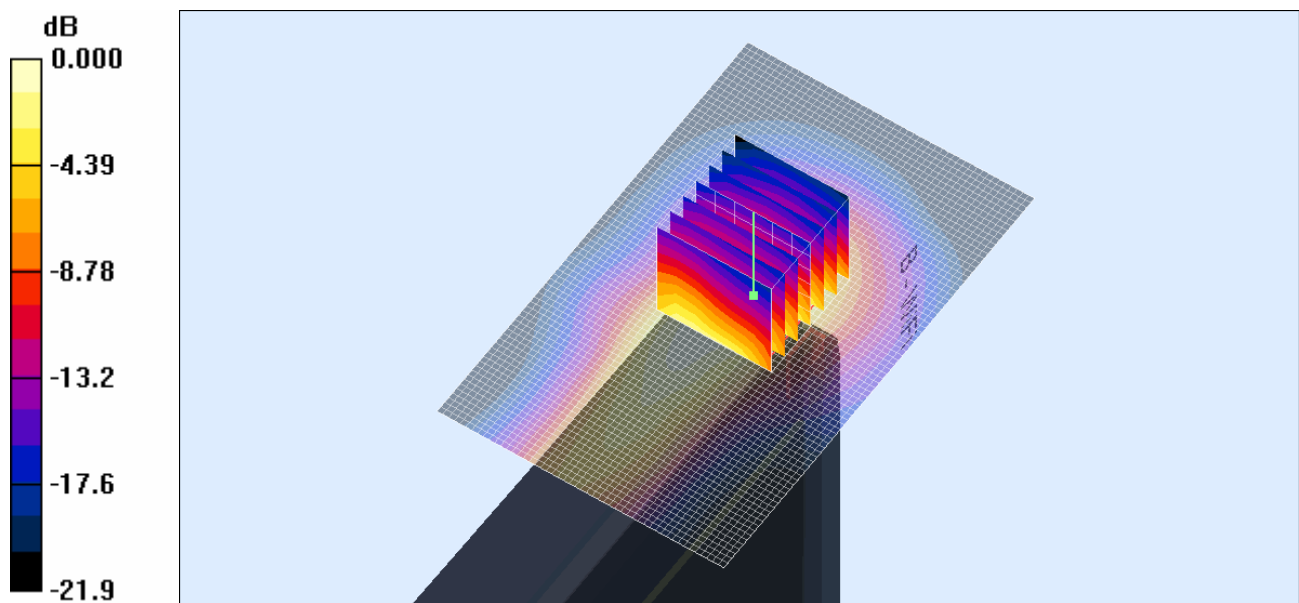
File Name: M100861 Primary Portrait OFDM 2.4 GHz Antenna B (2) 14-09-10.da4

EUT: **Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz; Frequency: 2417 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2418$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 2 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.07 mW/g

Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 18.9 V/m; Power Drift = 0.089 dB
 Peak SAR (extrapolated) = 2.25 W/kg
SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.430 mW/g
 Maximum value of SAR (measured) = 0.983 mW/g

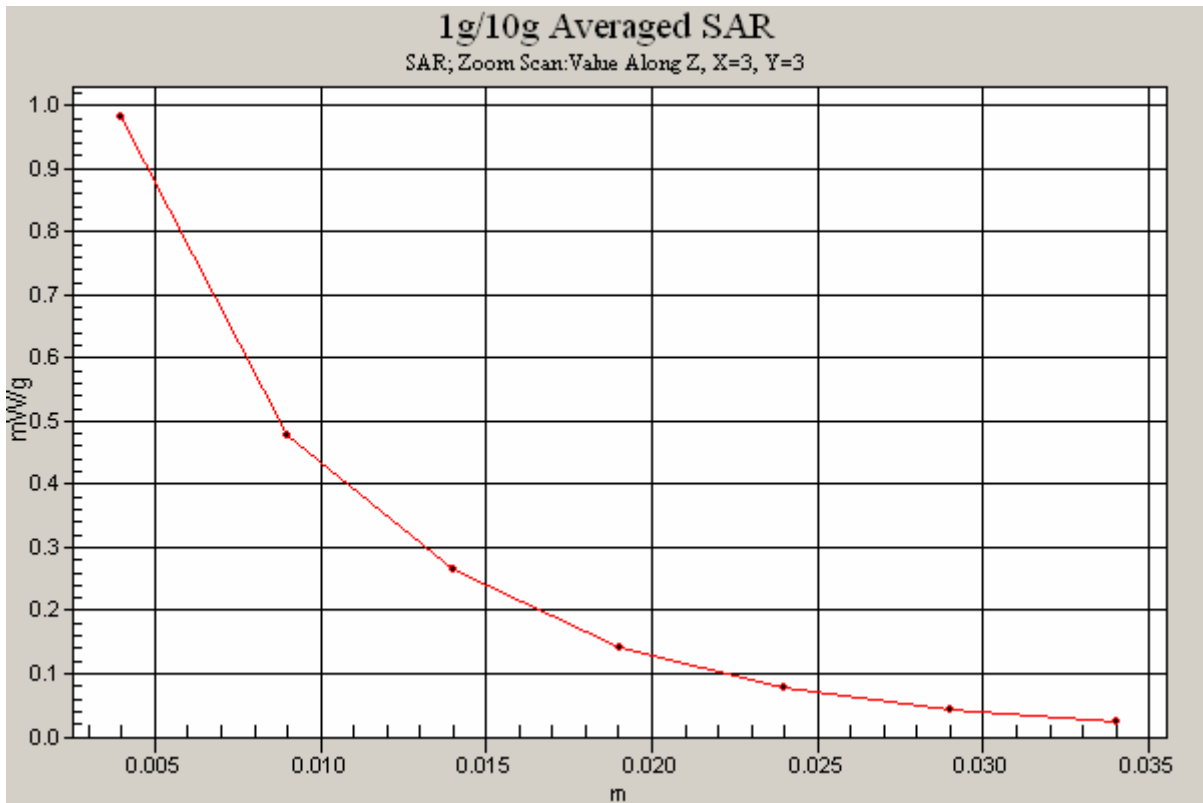


SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

21.3 Degrees Celsius
21.0 Degrees Celsius
38.0 %





Test Date: 14 September 2010

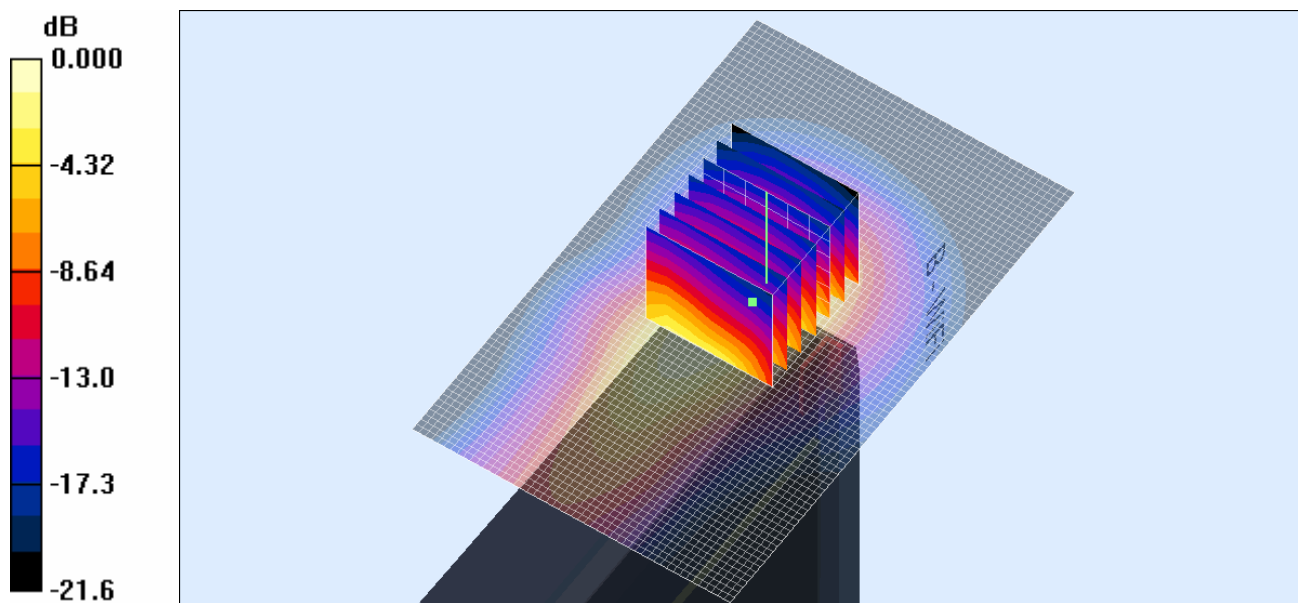
File Name: M100861 Primary Portrait OFDM 2.4 GHz Antenna B (2) 14-09-10.da4

EUT: Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.11 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 15.7 V/m; Power Drift = 0.138 dB
 Peak SAR (extrapolated) = 2.55 W/kg
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.463 mW/g
 Maximum value of SAR (measured) = 1.14 mW/g

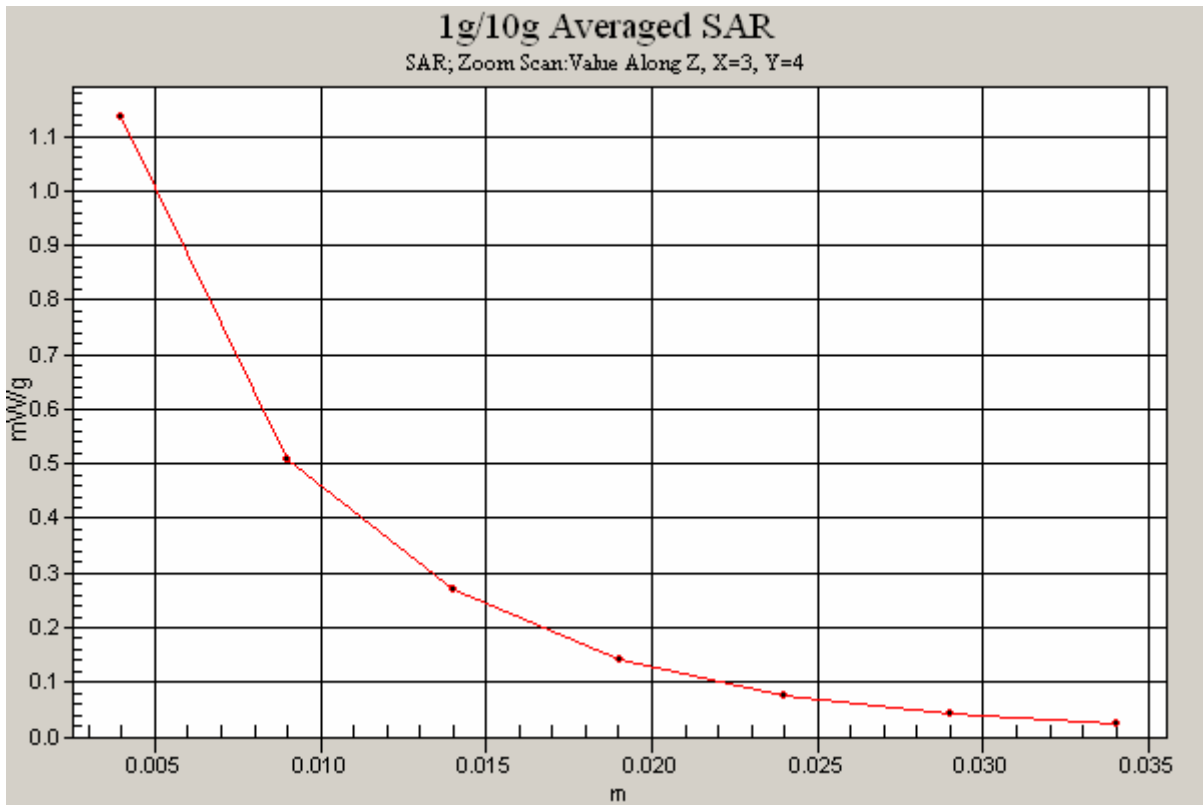


SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

21.3 Degrees Celsius
21.0 Degrees Celsius
38.0 %





Test Date: 14 September 2010

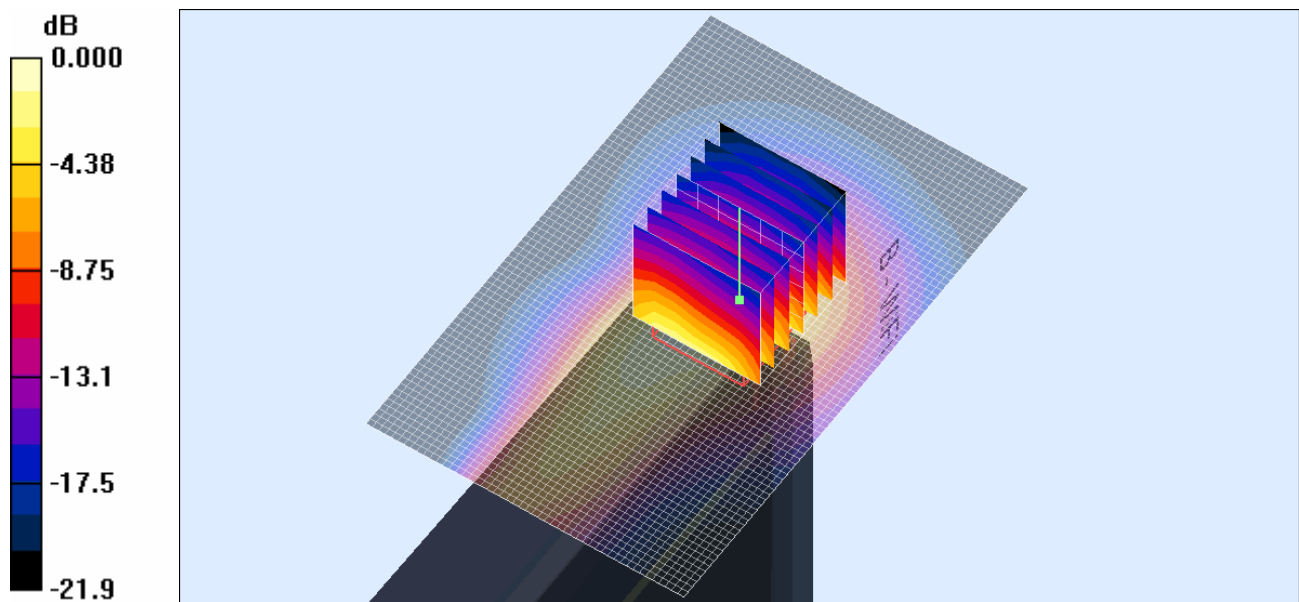
File Name: M100861 Primary Portrait OFDM 2.4 GHz Antenna B (2) 14-09-10.da4

EUT: **Fujitsu Tablet Sparrow with HB97 11bgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz; Frequency: 2457 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2458$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 10 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 1.19 mW/g

Channel 10 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 18.3 V/m; Power Drift = 0.311 dB
 Peak SAR (extrapolated) = 2.60 W/kg
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.506 mW/g
 Maximum value of SAR (measured) = 1.20 mW/g

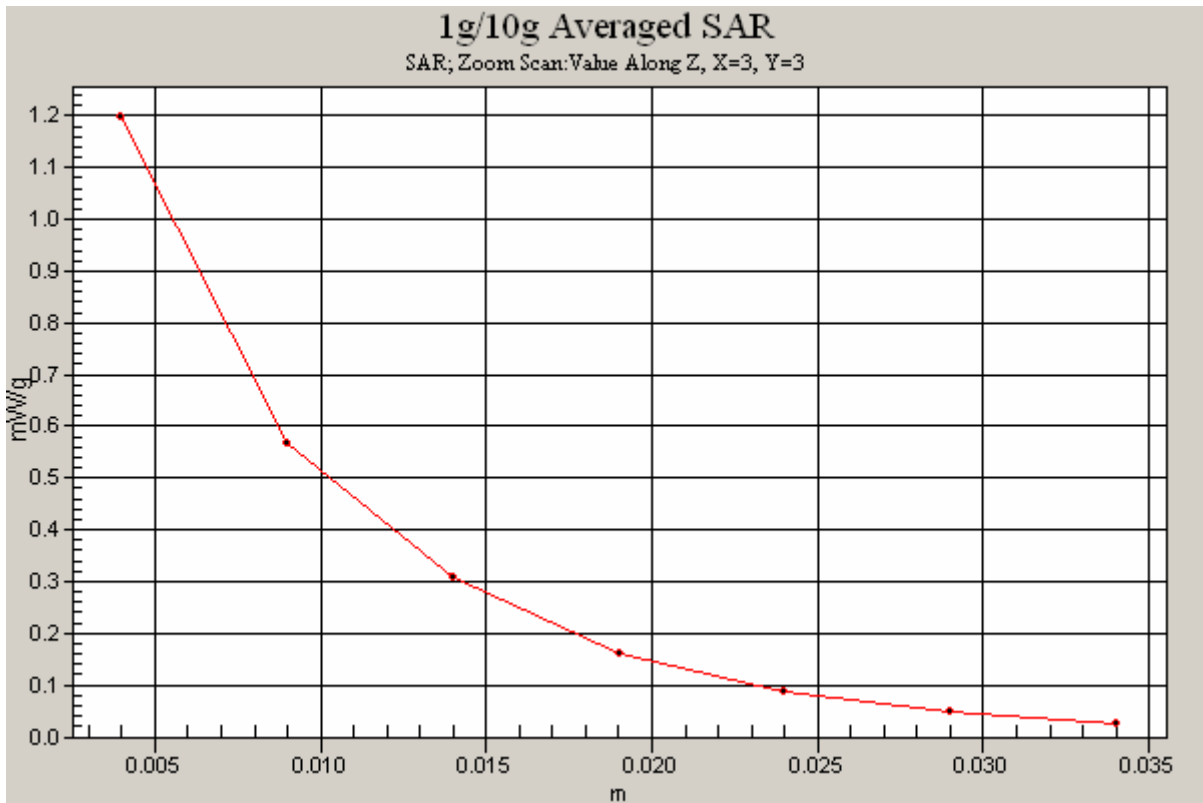


SAR MEASUREMENT PLOT 7

Ambient Temperature
 Liquid Temperature
 Humidity

21.3 Degrees Celsius
21.0 Degrees Celsius
38.0 %





Test Date: 13 September 2010

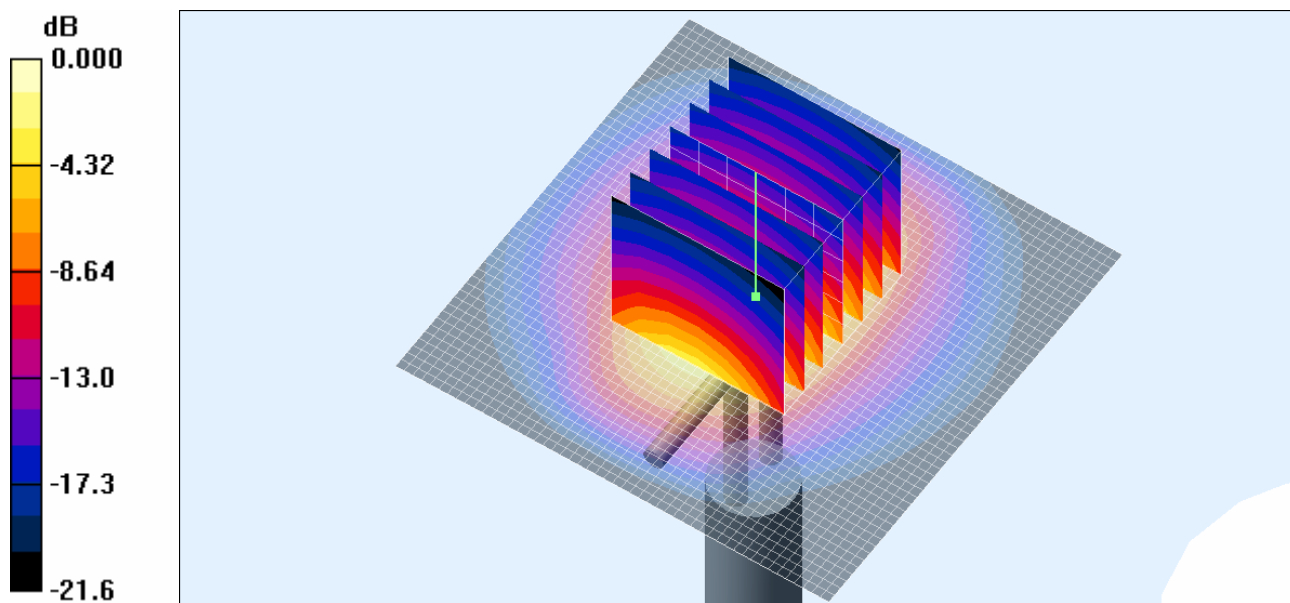
File Name: System Check 2450 MHz (DAE442 Probe1380) 13-09-10.da4

EUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

- * Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.44, 4.44, 4.44)
- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 19.6 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 98.7 V/m; Power Drift = -0.026 dB
 Peak SAR (extrapolated) = 30.5 W/kg
SAR(1 g) = 14.2 mW/g; SAR(10 g) = 6.65 mW/g
 Maximum value of SAR (measured) = 15.7 mW/g



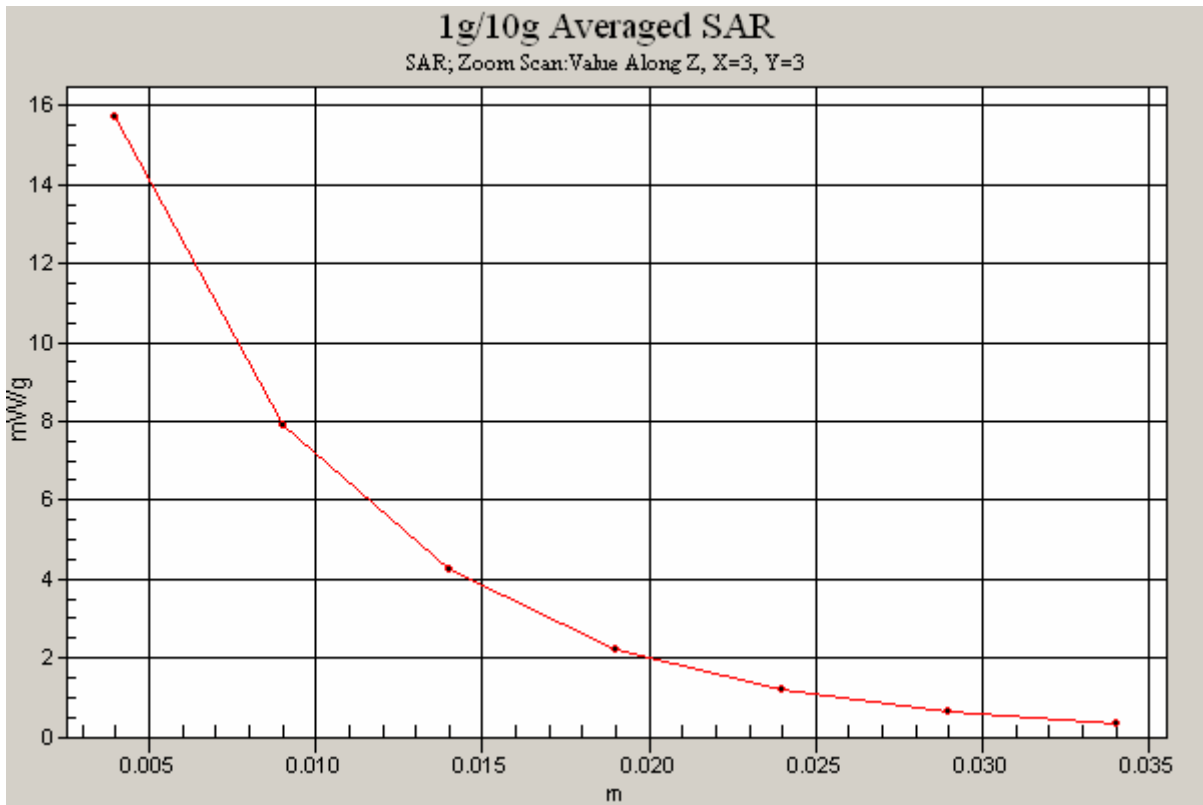
0 dB = 15.7mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
43.0 %





Test Date: 14 September 2010

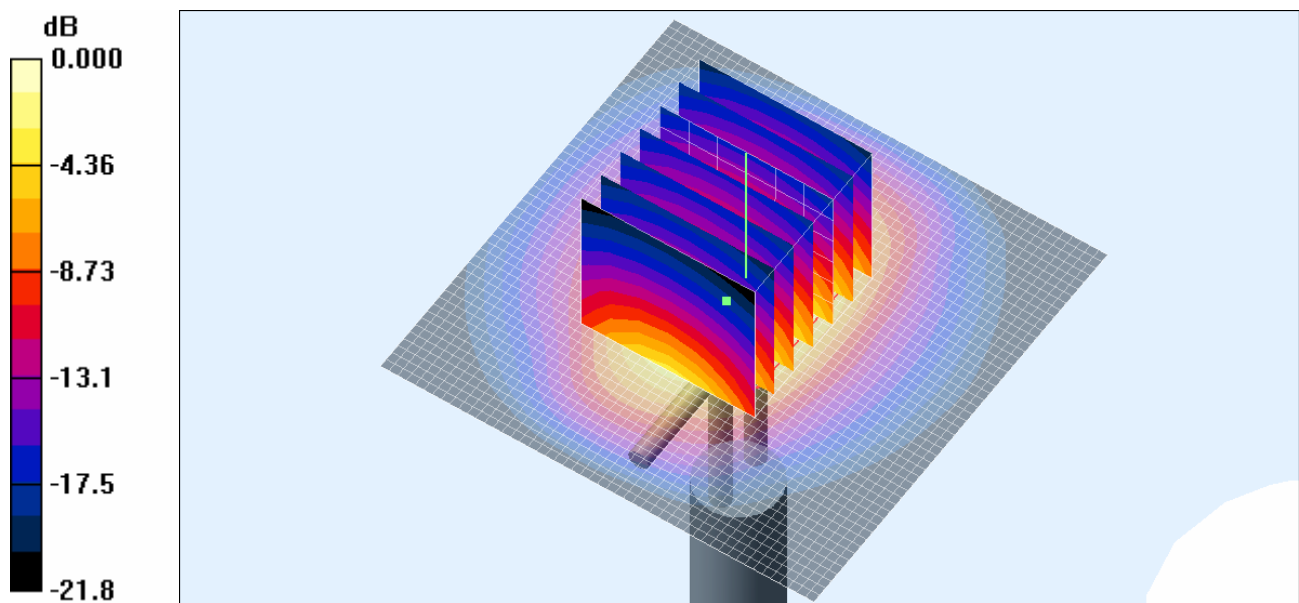
File Name: System Check 2450 MHz (DAE442 Probe1380) 14-09-10.da4

EUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

- * Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2450$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.44, 4.44, 4.44)
- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 19.1 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 96.9 V/m; Power Drift = 0.080 dB
 Peak SAR (extrapolated) = 29.2 W/kg
SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.4 mW/g
 Maximum value of SAR (measured) = 15.2 mW/g



0 dB = 15.2mW/g

SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

21.3 Degrees Celsius
21.0 Degrees Celsius
38.0 %



