

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 19 2450 MHz DSSS Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Secondary Landscape	1	A	1	-	01
	2		1	-	06
	3		1	-	11
	4	B	1	-	06
Edge On Primary Portrait	5	B	1	-	06
Bystander	6	B	1	-	06

Table 20 2450MHz System verification Plot

Plot 7	System Verification 2450 MHz 7 th September 2012



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Test Date: 06 September 2012

File Name: M120827 Edge On Secondary Landscape DSSS 2450 MHz Antenna A (1) 07-09-12.da52:0

DUT: Fujitsu Tablet Turquoise with Atheros 11abgn and Bluetooth; Type: AR5BHB116; Serial: MAC: B4749F72213F

- * Communication System: DSSS 2450 MHz 1Mbps; Frequency: 2412 MHz; Duty Cycle: 1:1.53886
- * Medium parameters used: $f = 2412$ MHz; $\sigma = 1.926$ mho/m; $\epsilon_r = 52.24$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 1 Test/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.473 W/kg

Configuration/Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

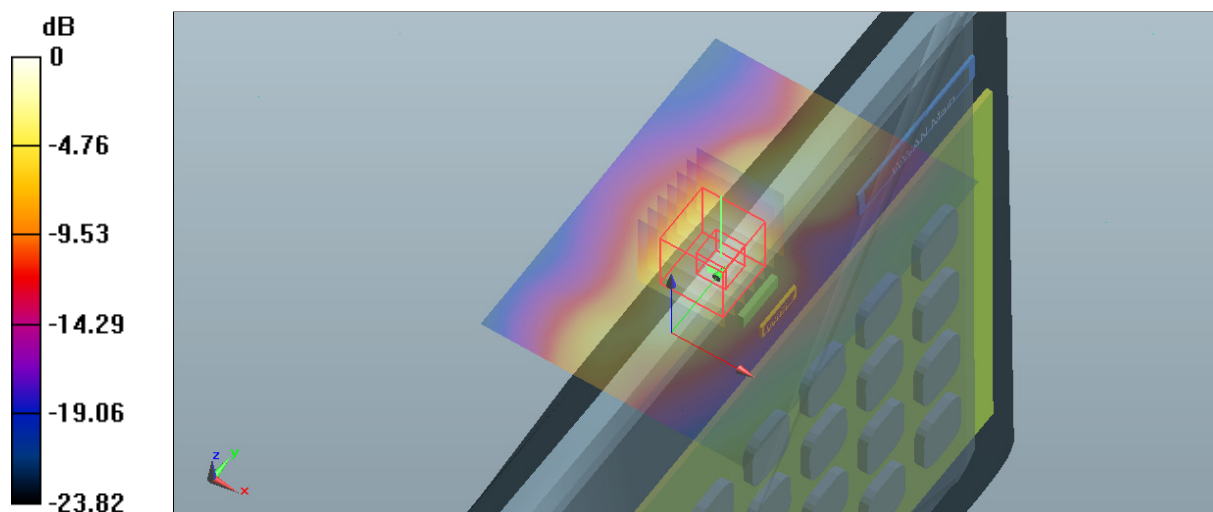
dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.157 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.940 mW/g

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 0.425 W/kg

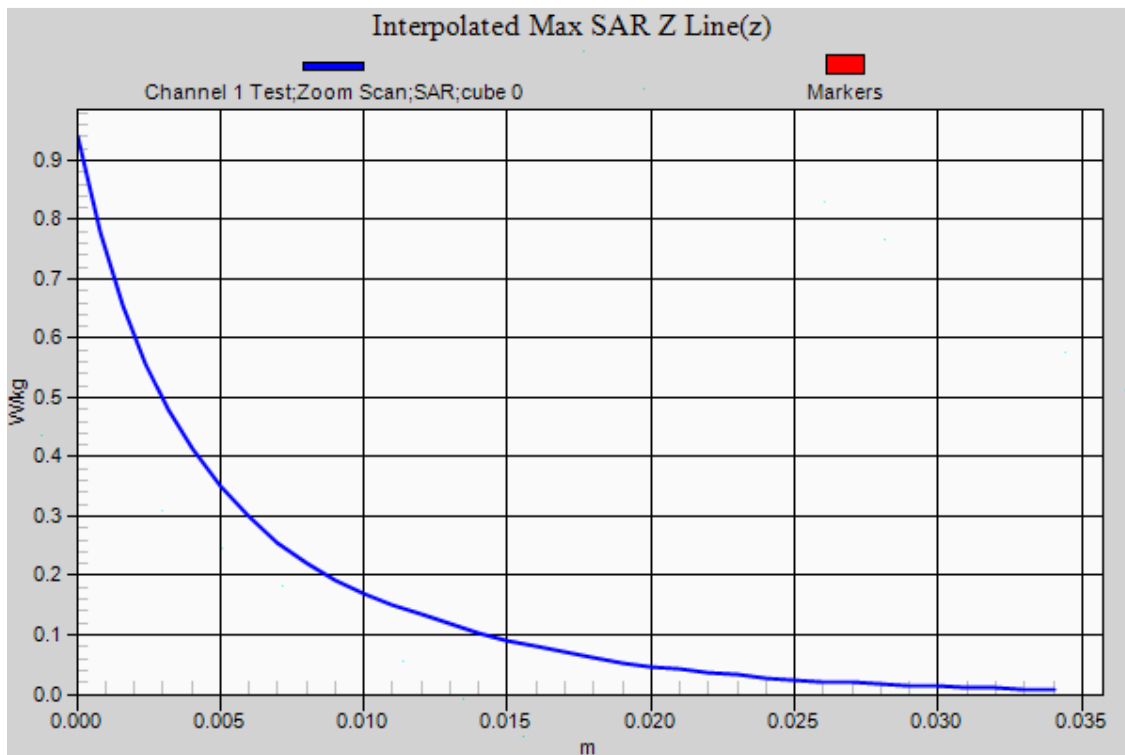


0 dB = 0.473 W/kg = -6.50 dB W/kg

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
38.0%



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Test Date: 06 September 2012

File Name: M120827 Edge On Secondary Landscape DSSS 2450 MHz Antenna A (1) 07-09-12.da52:0

DUT: Fujitsu Tablet Turquoise with Atheros 11abgn and Bluetooth; Type: AR5BHB116; Serial: MAC: B4749F72213F

- * Communication System: DSSS 2450 MHz 1Mbps; Frequency: 2437 MHz; Duty Cycle: 1:1.53886
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.956$ mho/m; $\epsilon_r = 52.137$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.424 W/kg

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

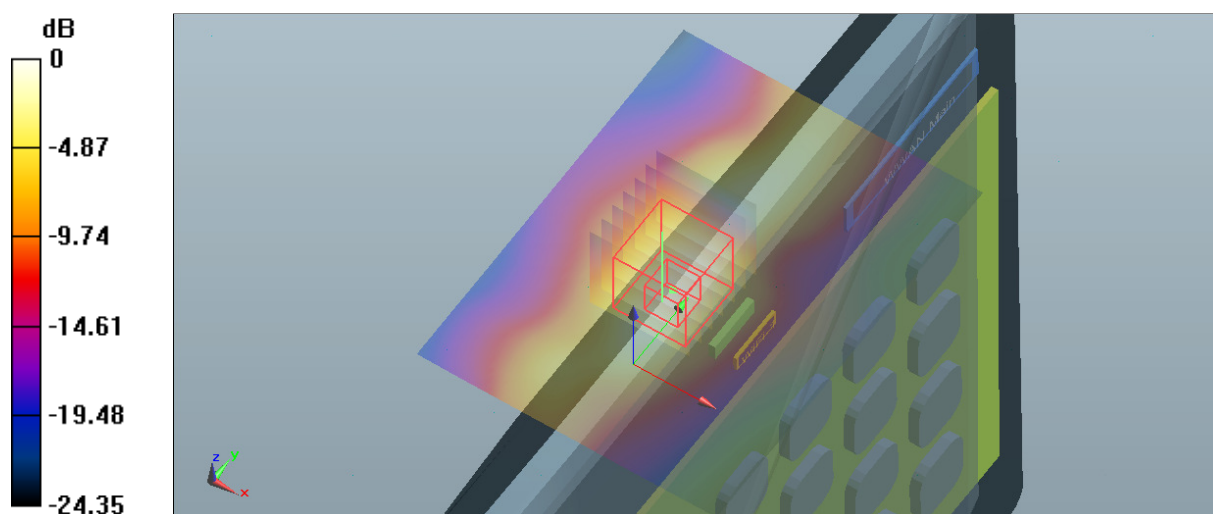
dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.833 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.795 mW/g

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.382 W/kg

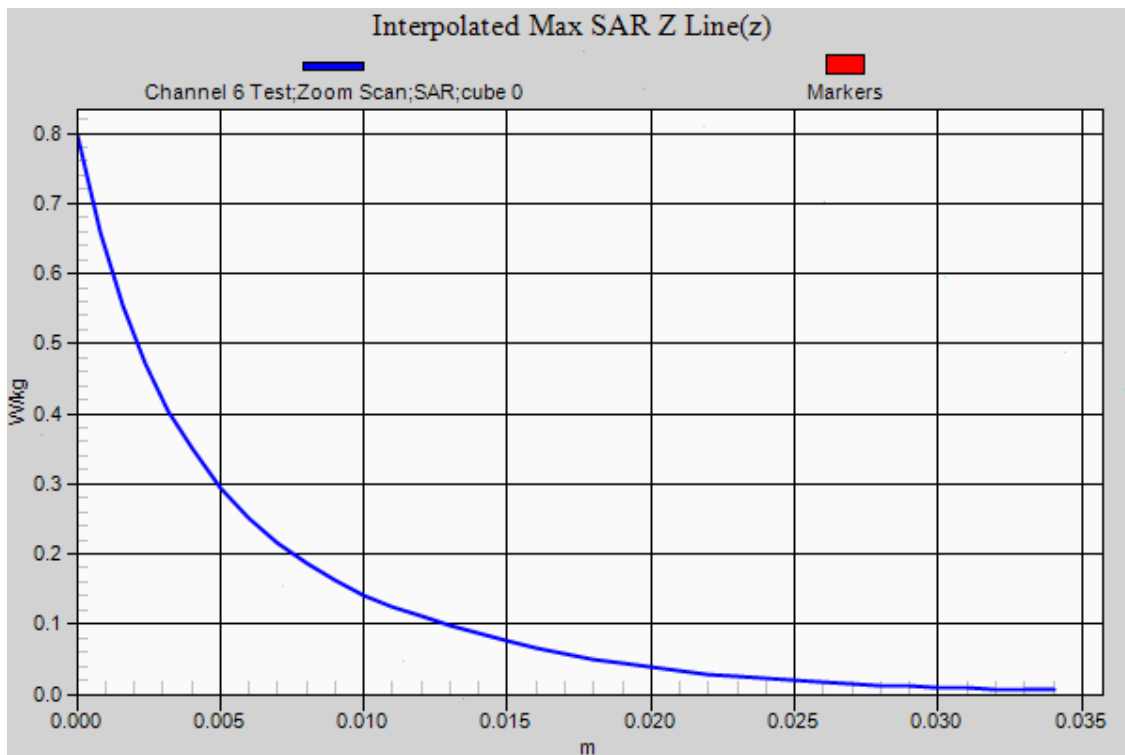


0 dB = 0.424 W/kg = -7.45 dB W/kg

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
38.0%



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Test Date: 06 September 2012

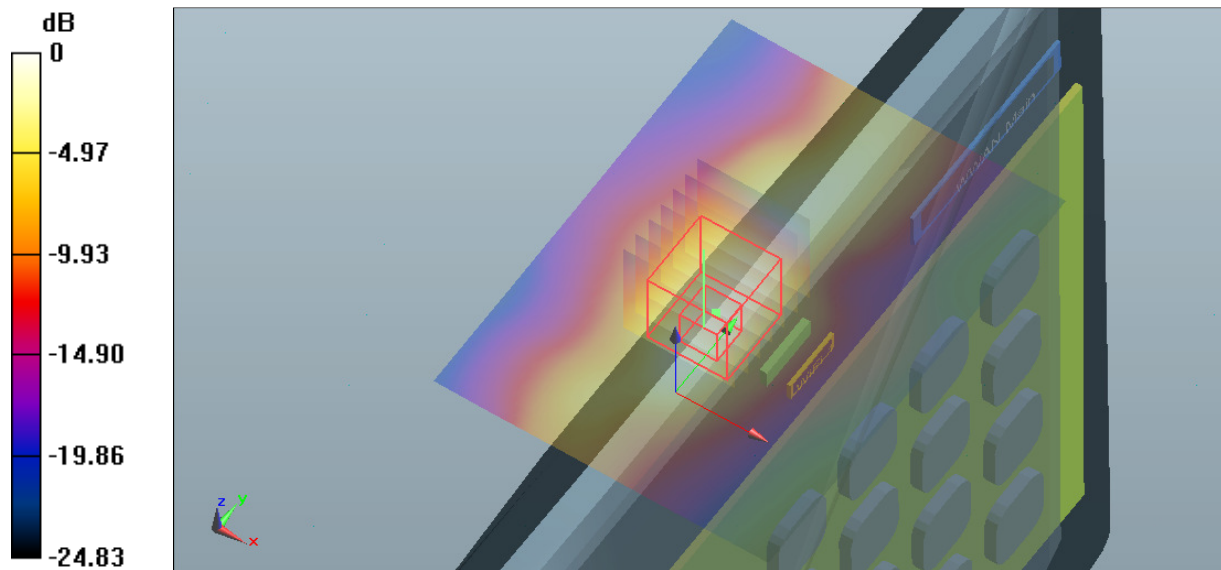
File Name: M120827 Edge On Secondary Landscape DSSS 2450 MHz Antenna A (1) 07-09-12.da52:0

DUT: Fujitsu Tablet Turquoise with Atheros 11abgn and Bluetooth; Type: AR5BHB116; Serial: MAC: B4749F72213F

- * Communication System: DSSS 2450 MHz 1Mbs; Frequency: 2462 MHz; Duty Cycle: 1:1.53886
- * Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.992 \text{ mho/m}$; $\epsilon_r = 52.026$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 11 Test/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.520 W/kg

Configuration/Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 14.945 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 0.966 mW/g
SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.211 mW/g
 Maximum value of SAR (measured) = 0.468 W/kg



0 dB = 0.520 W/kg = -5.68 dB W/kg

SAR MEASUREMENT PLOT 3

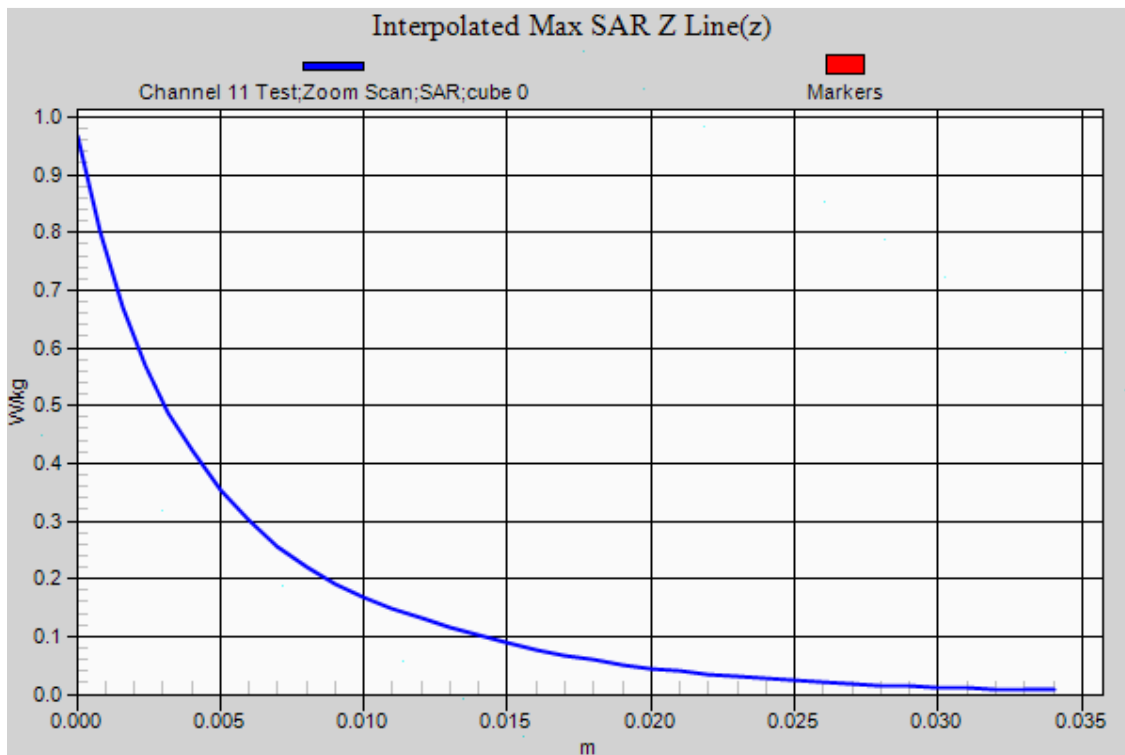
Ambient Temperature
 Liquid Temperature
 Humidity

20.9 Degrees Celsius
 20.5 Degrees Celsius
 38.0%



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Test Date: 06 September 2012

File Name: M120827 Edge On Secondary Landscape DSSS 2450 MHz Antenna B (2) 07-09-12.da52:0

DUT: Fujitsu Tablet Turquoise with Atheros 11abgn and Bluetooth; Type: AR5BHB116; Serial: MAC: B4749F72213F

* Communication System: DSSS 2450 MHz 1Mbs; Frequency: 2437 MHz; Duty Cycle: 1:1.53886

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.956$ mho/m; $\epsilon_r = 52.137$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.282 W/kg

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

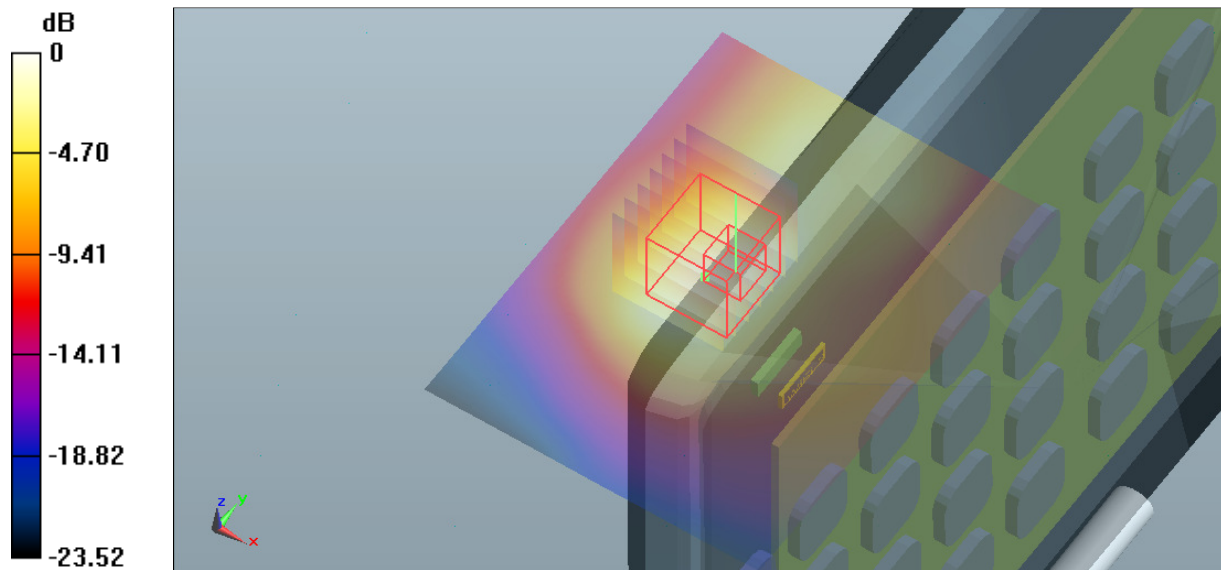
dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.705 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.639 mW/g

SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.303 W/kg



0 dB = 0.282 W/kg = -11.00 dB W/kg

SAR MEASUREMENT PLOT 4

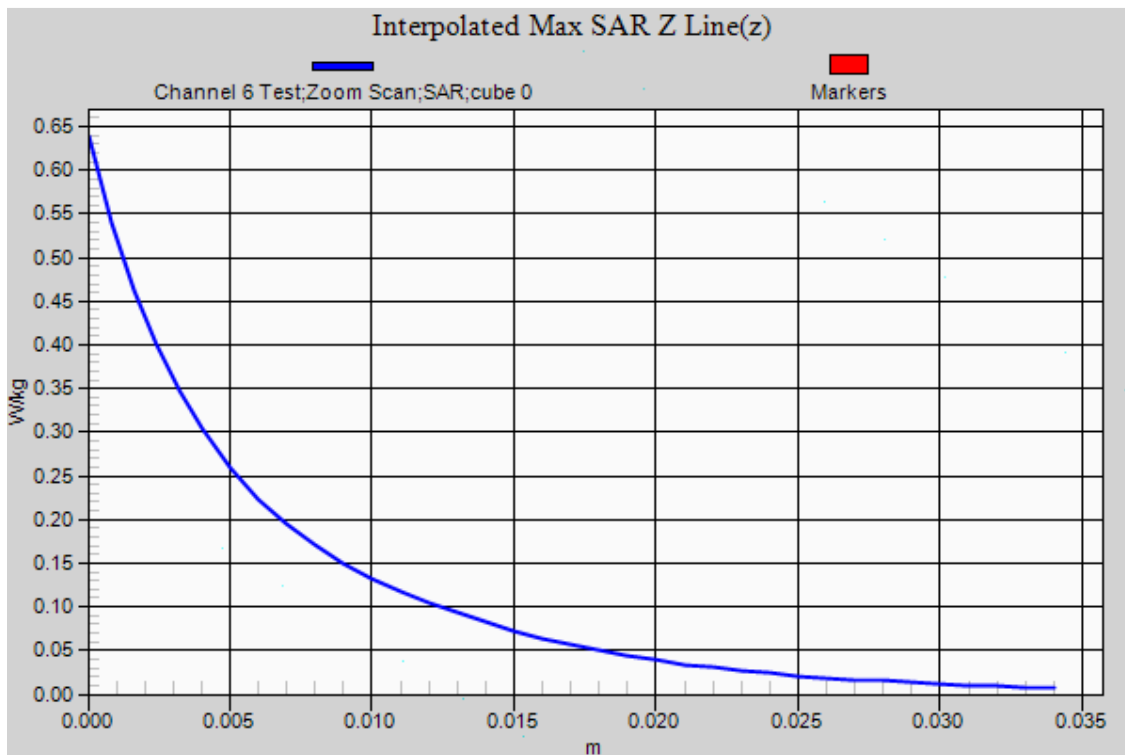
Ambient Temperature
Liquid Temperature
Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
38.0%



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Test Date: 06 September 2012

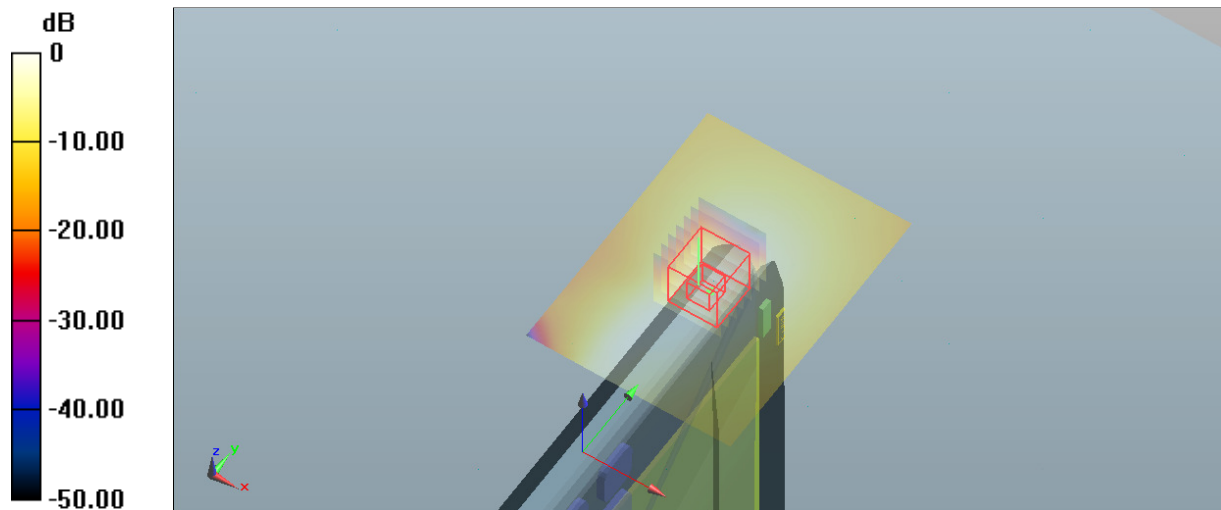
File Name: M120827 Edge On Primary Portrait DSSS 2450 MHz Antenna B (2) 07-09-12.da52:0

DUT: Fujitsu Tablet Turquoise with Atheros 11abgn and Bluetooth; Type: AR5BHB116; Serial: MAC: B4749F72213F

- * Communication System: DSSS 2450 MHz 1Mbps; Frequency: 2437 MHz; Duty Cycle: 1:1.53886
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.956$ mho/m; $\epsilon_r = 52.137$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.170 W/kg

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 7.380 V/m; Power Drift = -0.07 dB
 Peak SAR (extrapolated) = 0.398 mW/g
SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.089 mW/g
 Maximum value of SAR (measured) = 0.179 W/kg



0 dB = 0.170 W/kg = -15.39 dB W/kg

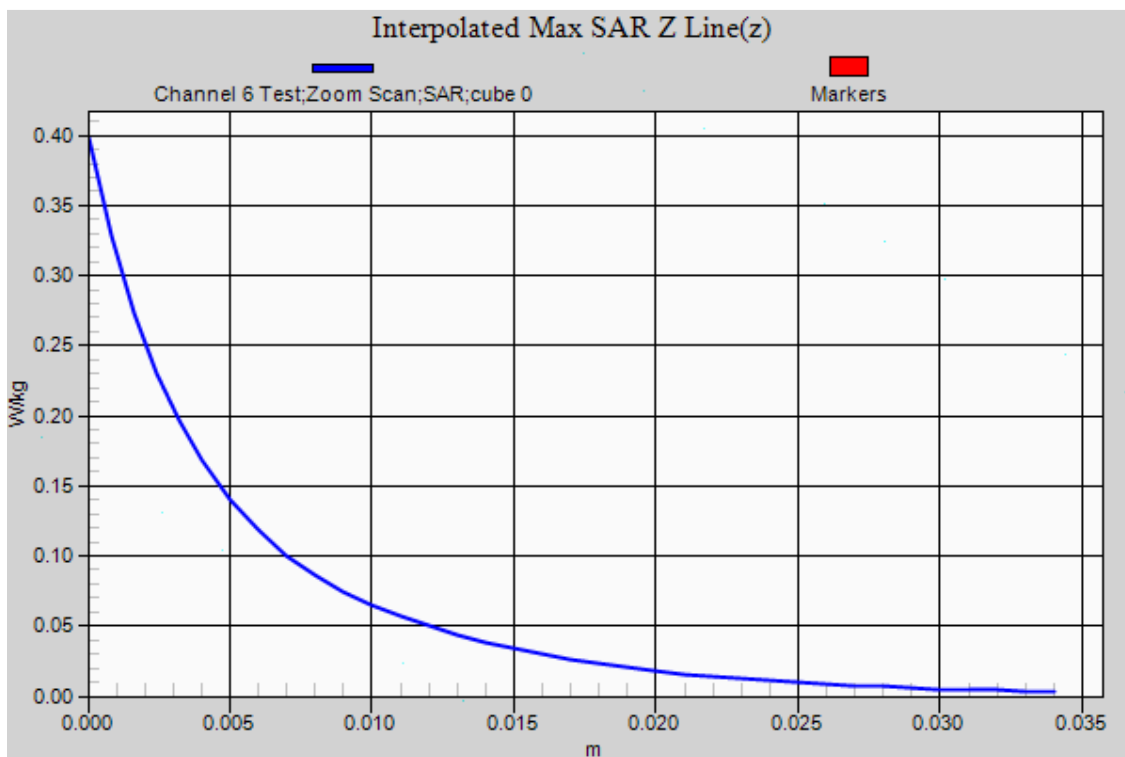
SAR MEASUREMENT PLOT 5

Ambient Temperature	20.9 Degrees Celsius
Liquid Temperature	20.5 Degrees Celsius
Humidity	38.0%



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Test Date: 06 September 2012

File Name: M120827 Bystander 25mm Spacing DSSS 2450 MHz Antenna B (2) 07-09-12.da52:0

DUT: Fujitsu Tablet Turquoise with Atheros 11abgn and Bluetooth; Type: AR5BHB116; Serial: MAC: B4749F72213F

* Communication System: DSSS 2450 MHz 1Mbps; Frequency: 2437 MHz; Duty Cycle: 1:1.53886

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.956$ mho/m; $\epsilon_r = 52.137$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0567 W/kg

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

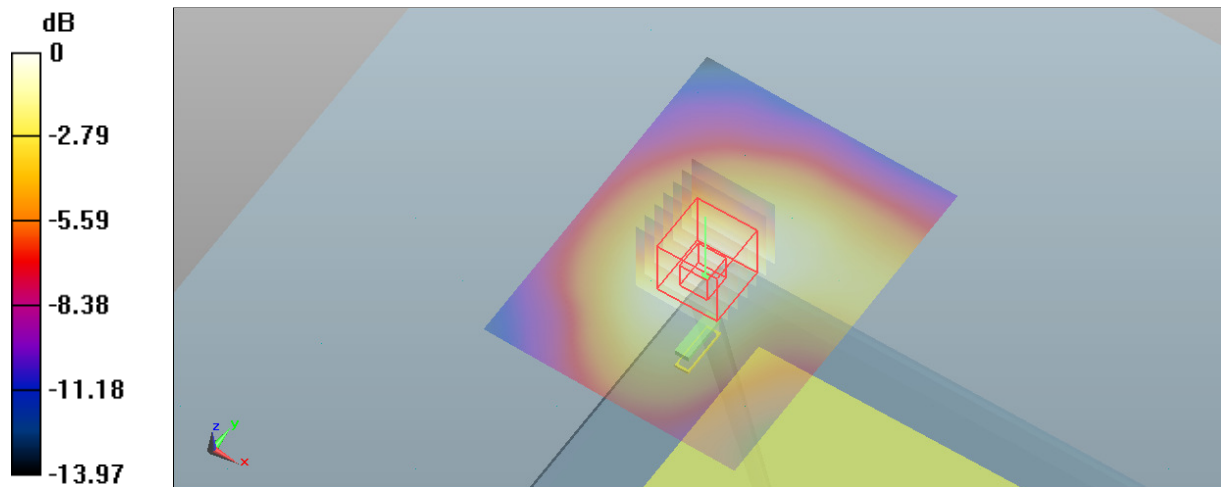
dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.954 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.110 mW/g

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.0561 W/kg



0 dB = 0.0567 W/kg = -24.93 dB W/kg

SAR MEASUREMENT PLOT 6

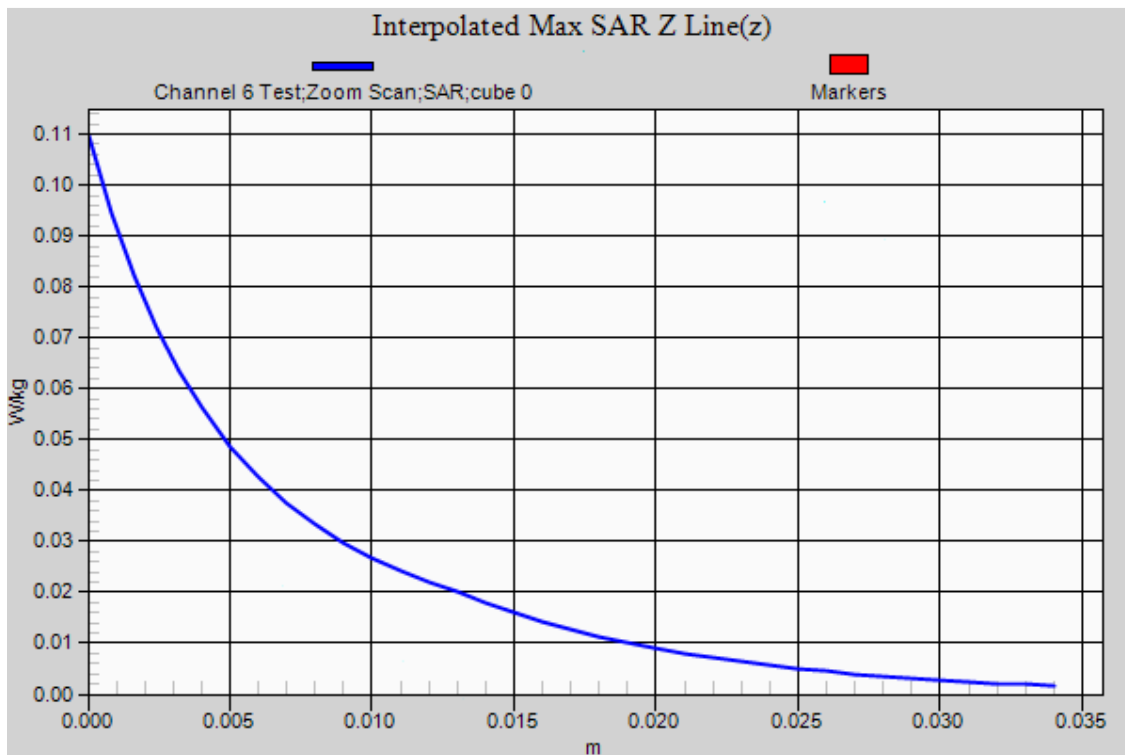
Ambient Temperature
Liquid Temperature
Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
38.0%



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Test Date: 06 September 2012 11:46 p.m.

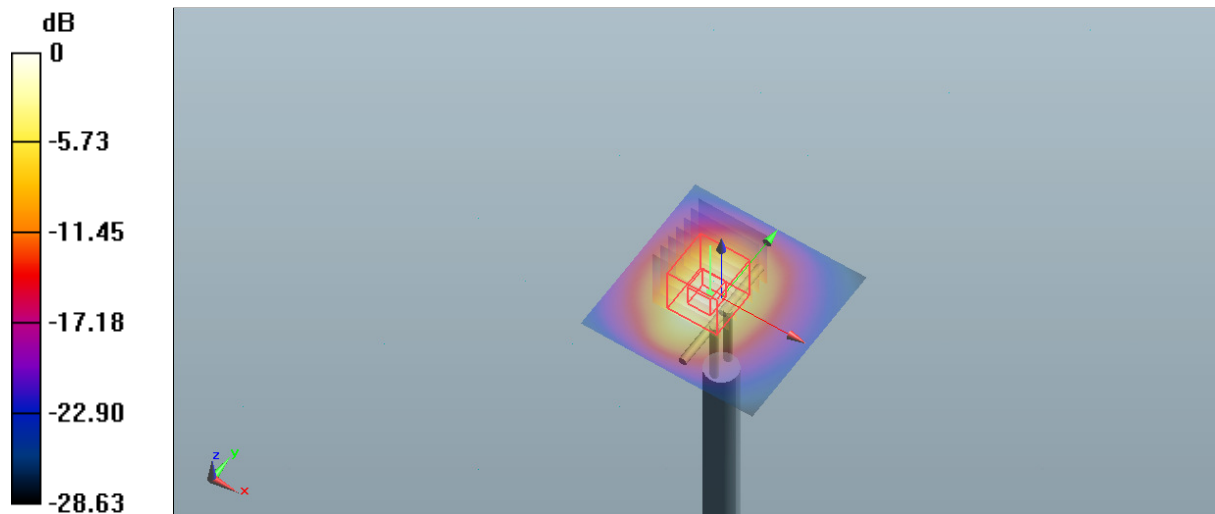
File Name: System Check 2450 MHz 06-09-12.da52:0

DUT: 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; $\sigma = 1.975$ mho/m; $\epsilon_r = 52.073$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.15, 4.15, 4.15); Calibrated: 12/12/2011
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 18.1 W/kg

Configuration/Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 87.081 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 32.421 mW/g
SAR(1 g) = 14 mW/g; SAR(10 g) = 6.55 mW/g
 Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 18.1 W/kg = 25.15 dB W/kg

SAR MEASUREMENT PLOT 7

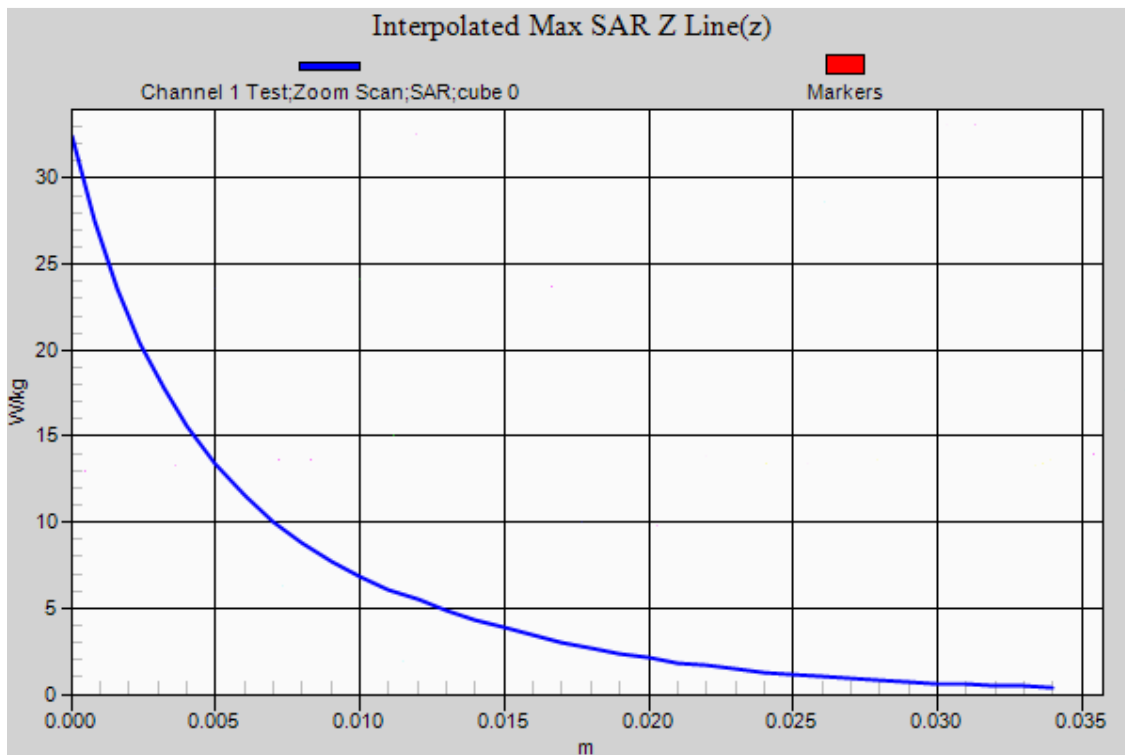
Ambient Temperature
 Liquid Temperature
 Humidity

20.9 Degrees Celsius
20.5 Degrees Celsius
38.0%



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