

### 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 18 2450 MHz DSSS Band SAR Measurement Plot Numbers**

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Lap Held	1	A	6	-	01
	2		6	-	06
	3		6	-	11
	4	B	6	-	01
	5		6	-	06
	6		6	-	11
Edge On Primary Portrait	7	A	6	-	06
	8	B	6	-	06

**Table 19 2450MHz System verification Plot**

Plot 9	System verification 2450 MHz 13 <sup>th</sup> August 2012
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**Test Date:** 13 August 2012

**File Name:** M120812 Lap Held DSSS 2450 MHz Antenna A (1) 13-08-12.da52:0

**DUT:** Fujitsu Tablet Quattro with HB116 11abgn and Bluetooth; **Type:** AR5BHB116; **Serial:** MAC: B4749F72213F

- \* Communication System: DSSS 2450 MHz 1Mbs; Frequency: 2412 MHz; Duty Cycle: 1:1.53886
- \* Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.868$  mho/m;  $\epsilon_r = 51.943$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.826 mW/g

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

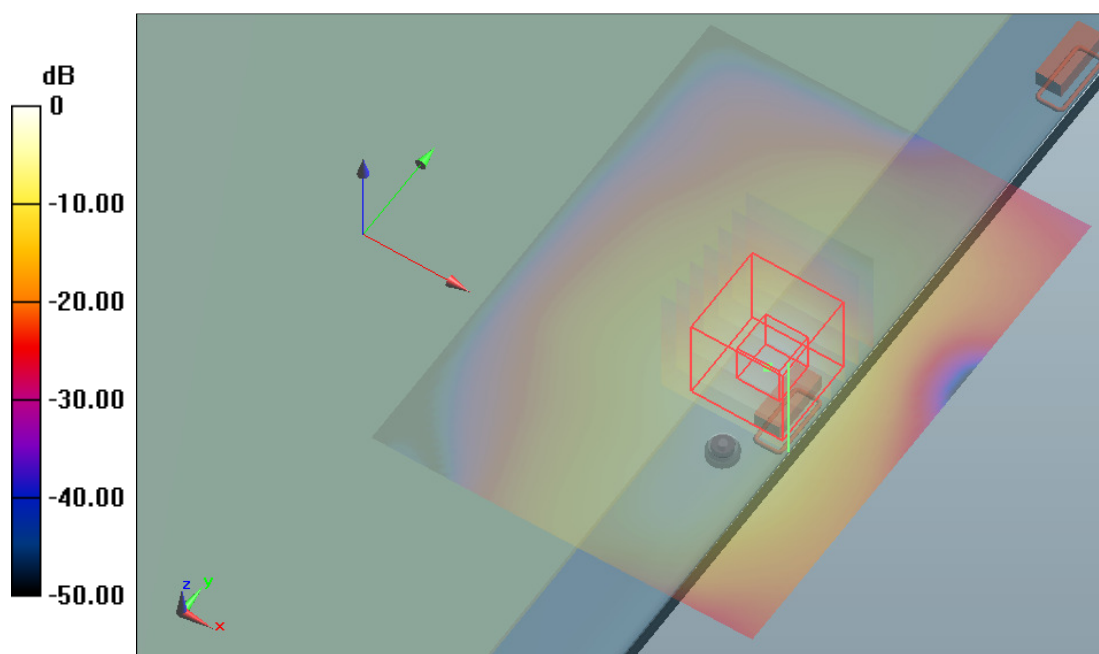
dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.599 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.901 mW/g

**SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.290 mW/g**

Maximum value of SAR (measured) = 0.796 mW/g



0 dB = 0.826 mW/g = -1.66 dB mW/g

**SAR MEASUREMENT PLOT 1**

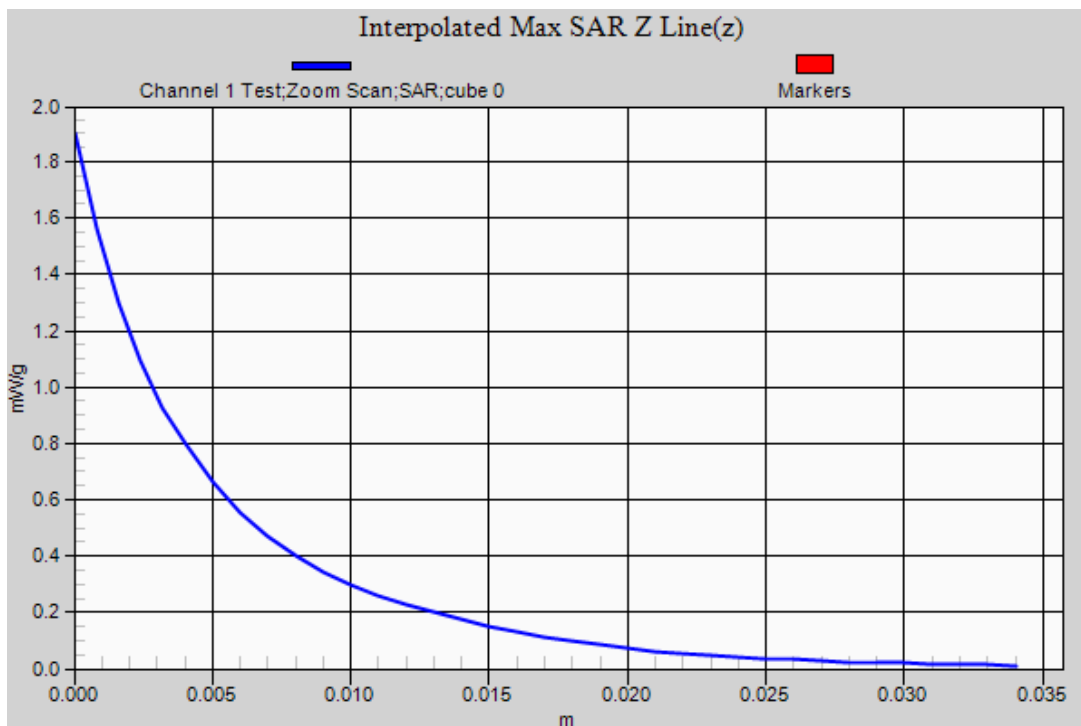
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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**Test Date: 13 August 2012**

File Name: M120812 Lap Held DSSS 2450 MHz Antenna A (1) 13-08-12.da52:0

**DUT: Fujitsu Tablet Quattro with HB116 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;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 51.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.672 mW/g

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

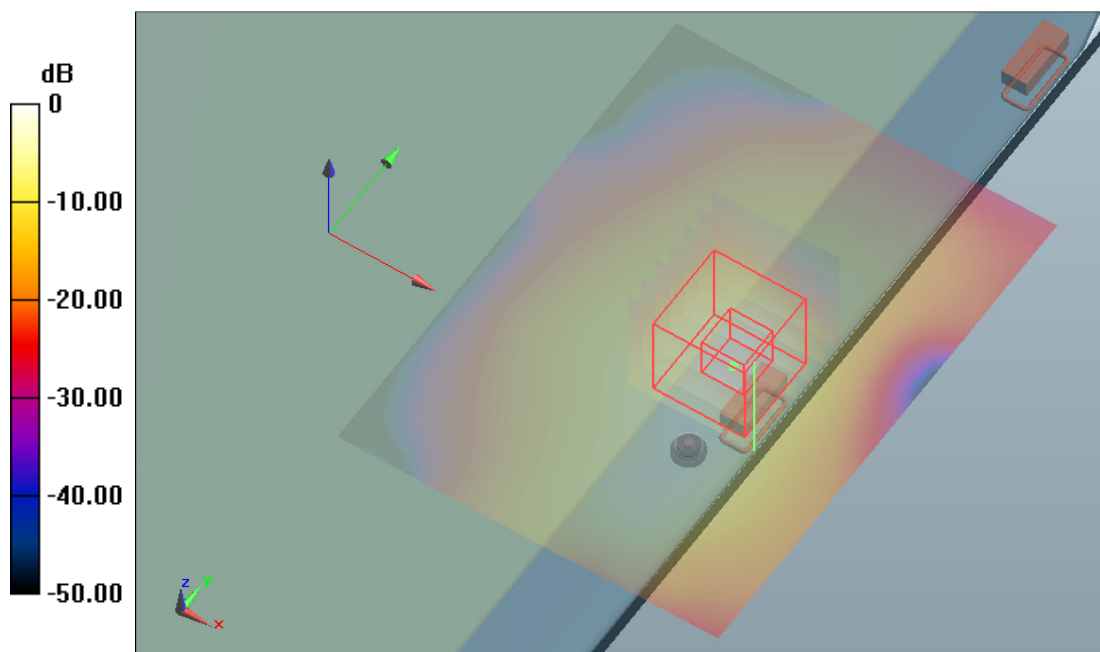
dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.419 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.475 mW/g

**SAR(1 g) = 0.551 mW/g; SAR(10 g) = 0.226 mW/g**

Maximum value of SAR (measured) = 0.605 mW/g



0 dB = 0.672 mW/g = -3.45 dB mW/g

**SAR MEASUREMENT PLOT 2**

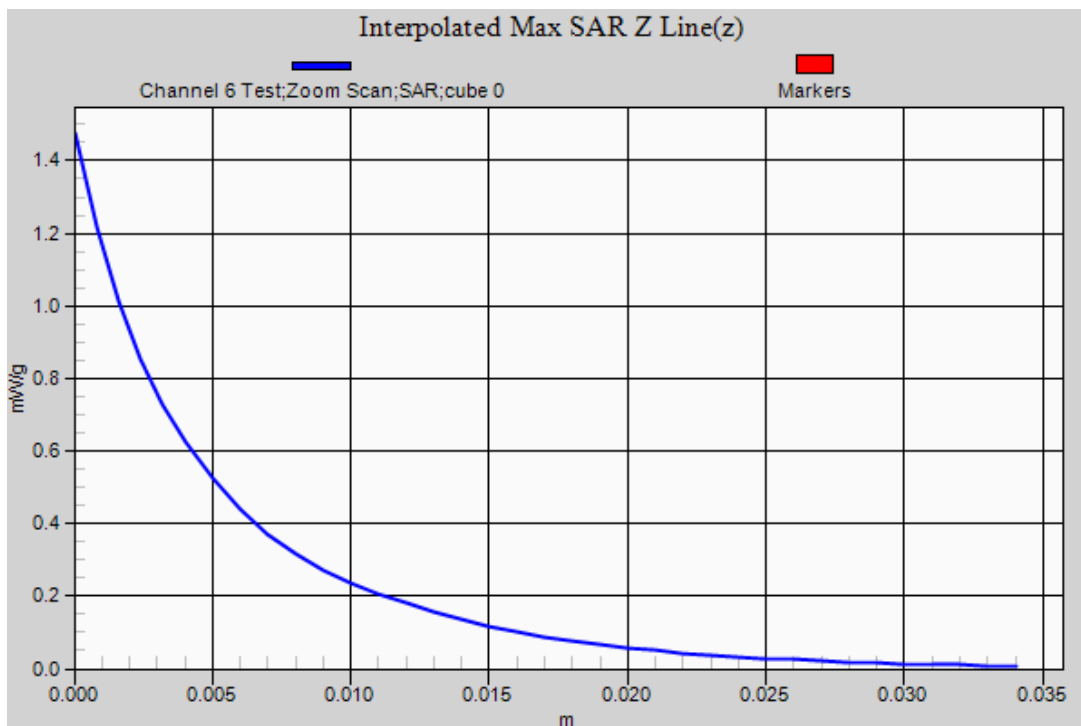
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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**Test Date: 13 August 2012**

File Name: M120812 Lap Held DSSS 2450 MHz Antenna A (1) 13-08-12.da52:0

**DUT: Fujitsu Tablet Quattro with HB116 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:  $f = 2462$  MHz;  $\sigma = 1.935$  mho/m;  $\epsilon_r = 51.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.581 mW/g

**Configuration/Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

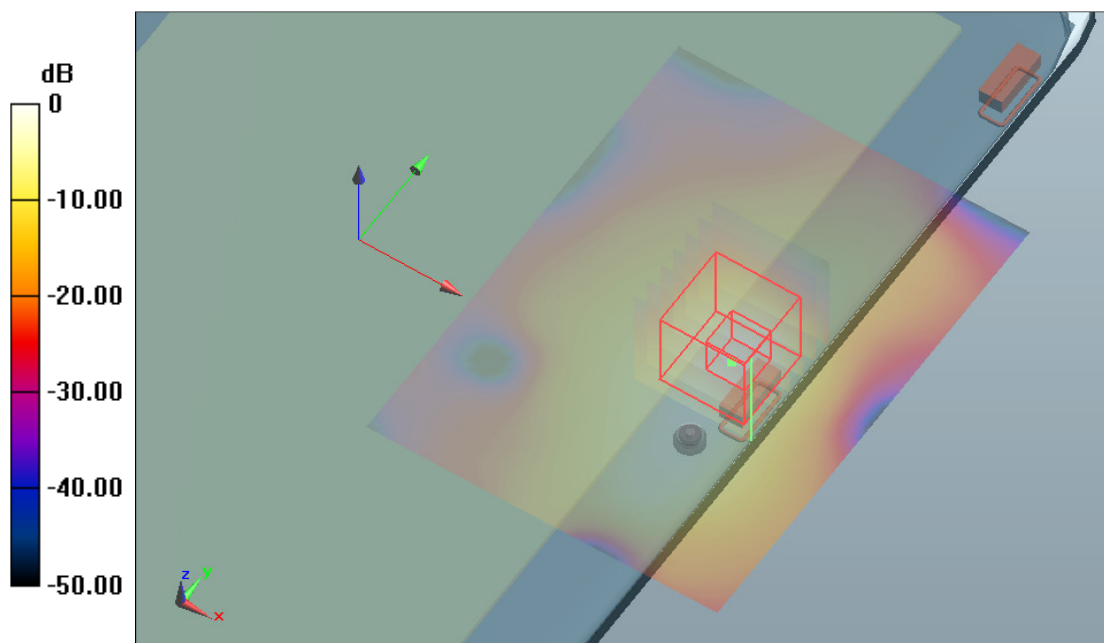
dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.999 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.257 mW/g

**SAR(1 g) = 0.464 mW/g; SAR(10 g) = 0.191 mW/g**

Maximum value of SAR (measured) = 0.525 mW/g



0 dB = 0.581 mW/g = -4.72 dB mW/g

**SAR MEASUREMENT PLOT 3**

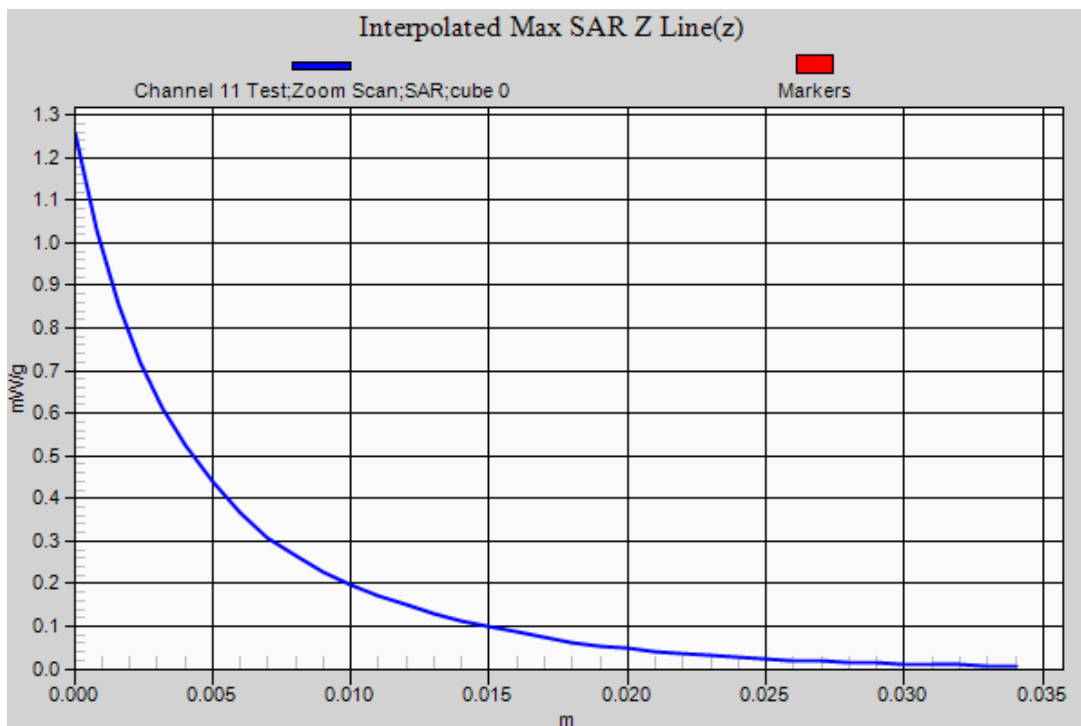
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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**Test Date:** 13 August 2012

**File Name:** M120812 Lap Held DSSS 2450 MHz Antenna B (2) 13-08-12.da52:0

**DUT:** Fujitsu Tablet Quattro with HB116 11abgn and Bluetooth; **Type:** AR5BHB116; **Serial:** MAC: B4749F72213F

- \* Communication System: DSSS 2450 MHz 1Mbs; Frequency: 2412 MHz; Duty Cycle: 1:1.53886
- \* Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.868$  mho/m;  $\epsilon_r = 51.943$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.966 mW/g

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

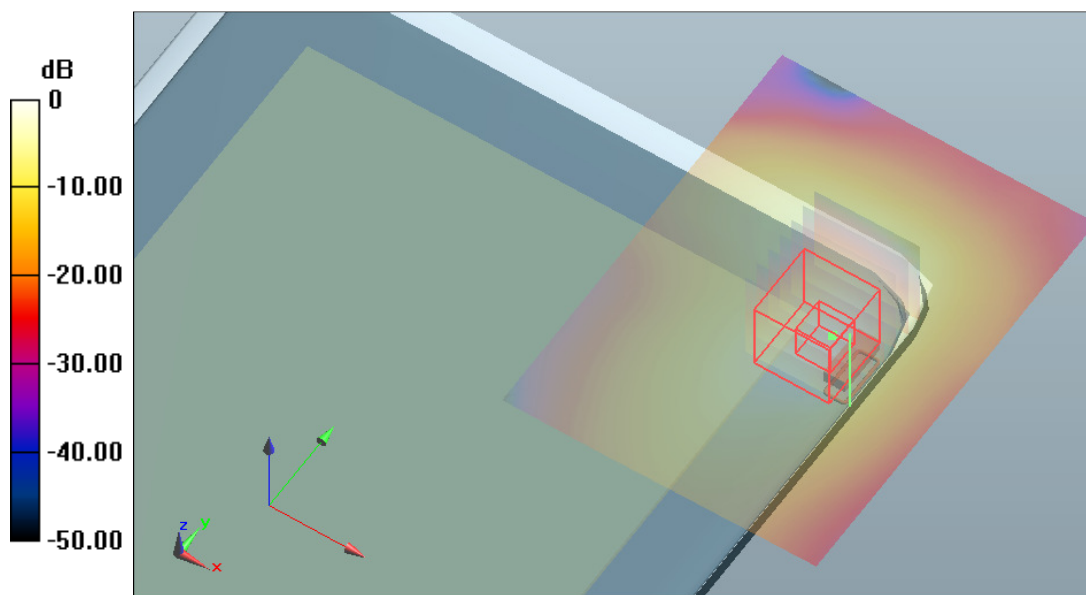
dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.046 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.440 mW/g

**SAR(1 g) = 0.841 mW/g; SAR(10 g) = 0.344 mW/g**

Maximum value of SAR (measured) = 0.940 mW/g



0 dB = 0.966 mW/g = -0.30 dB mW/g

**SAR MEASUREMENT PLOT 4**

**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

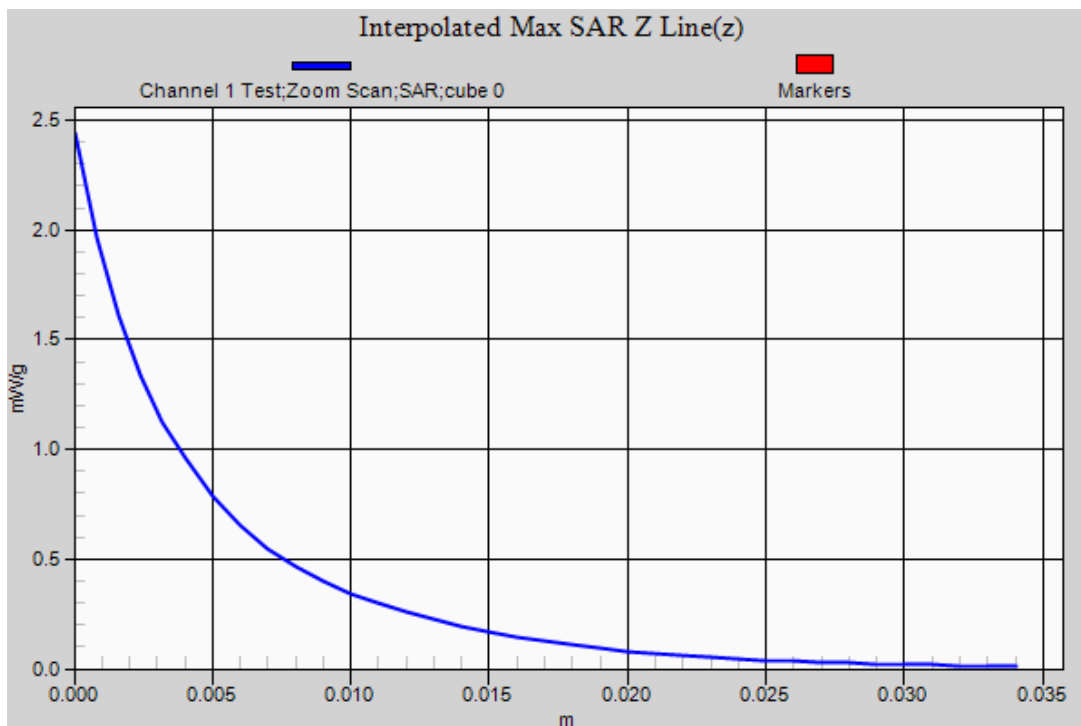
**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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Test Date: 13 August 2012

File Name: M120812 Lap Held DSSS 2450 MHz Antenna B (2) 13-08-12.da52:0

**DUT: Fujitsu Tablet Quattro with HB116 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;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 51.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.885 mW/g

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

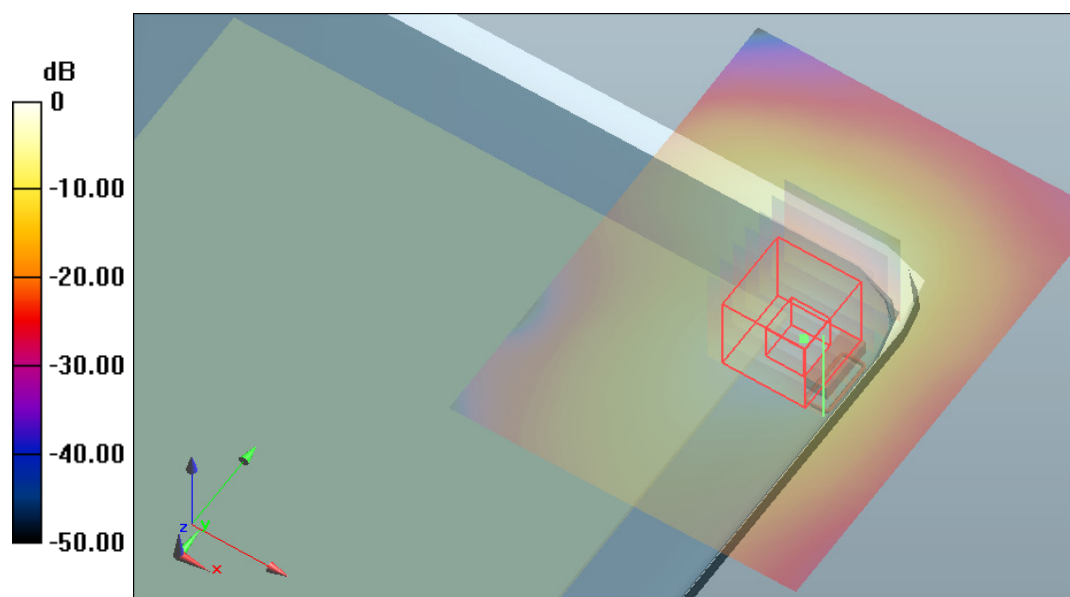
dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.301 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.554 mW/g

**SAR(1 g) = 0.871 mW/g; SAR(10 g) = 0.348 mW/g**

Maximum value of SAR (measured) = 0.998 mW/g



0 dB = 0.885 mW/g = -1.06 dB mW/g

**SAR MEASUREMENT PLOT 5**

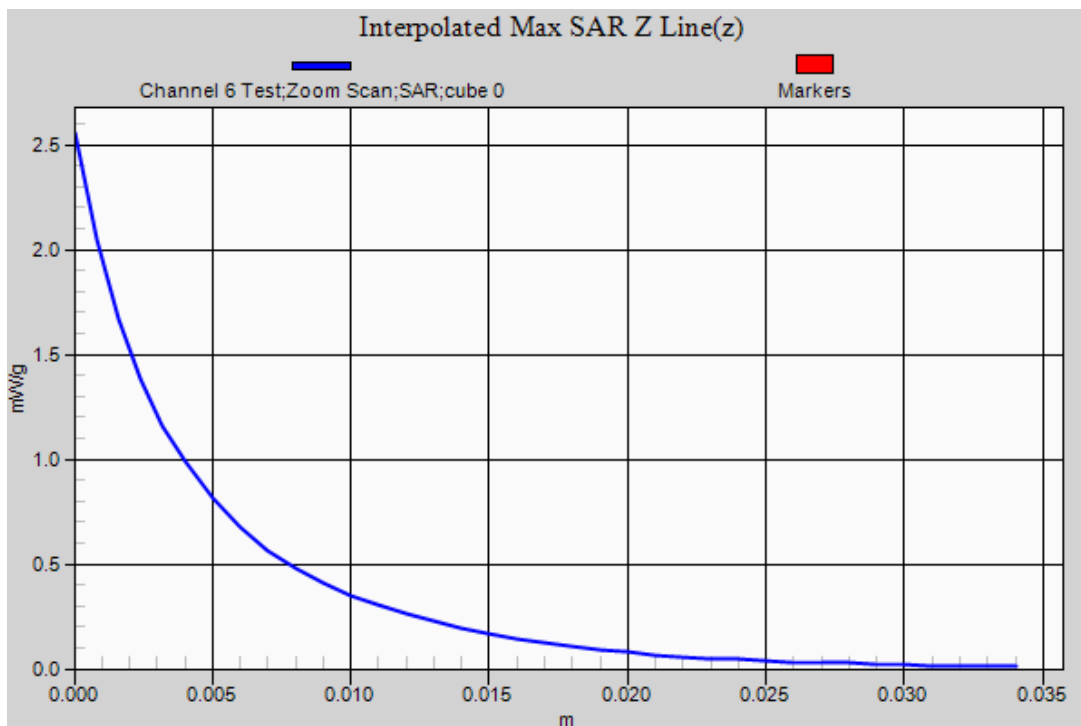
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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**Test Date: 13 August 2012**

File Name: M120812 Lap Held DSSS 2450 MHz Antenna B (2) 13-08-12.da52:0

**DUT: Fujitsu Tablet Quattro with HB116 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:  $f = 2462$  MHz;  $\sigma = 1.935$  mho/m;  $\epsilon_r = 51.756$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.18 mW/g

**Configuration/Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

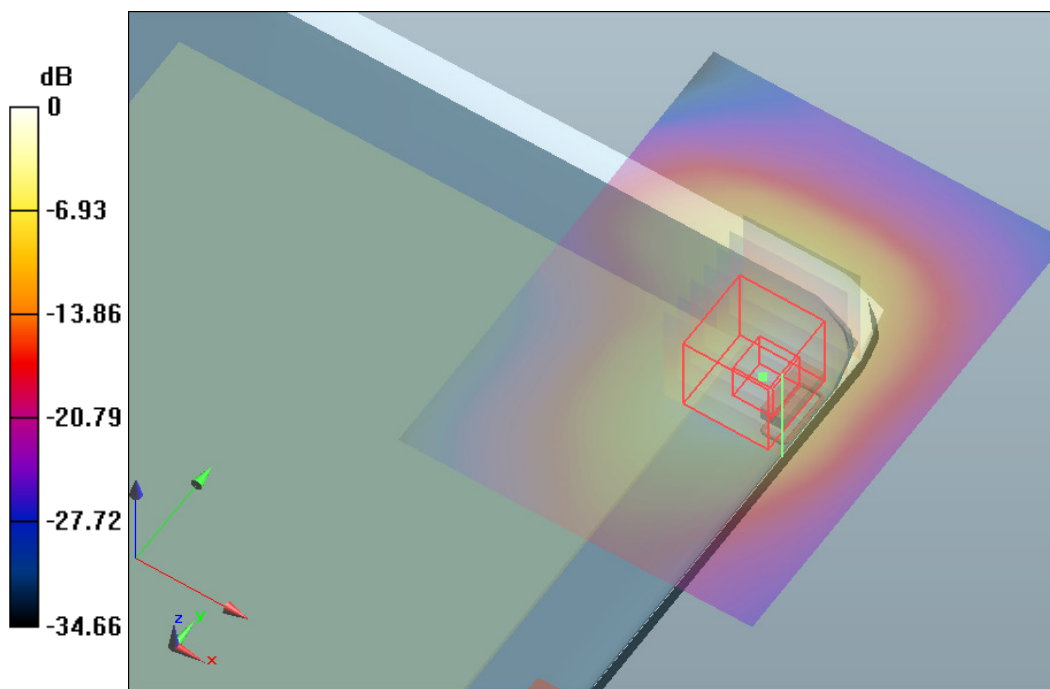
dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.841 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 3.277 mW/g

**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.451 mW/g**

Maximum value of SAR (measured) = 1.28 mW/g



0 dB = 1.18 mW/g = 1.44 dB mW/g

**SAR MEASUREMENT PLOT 6**

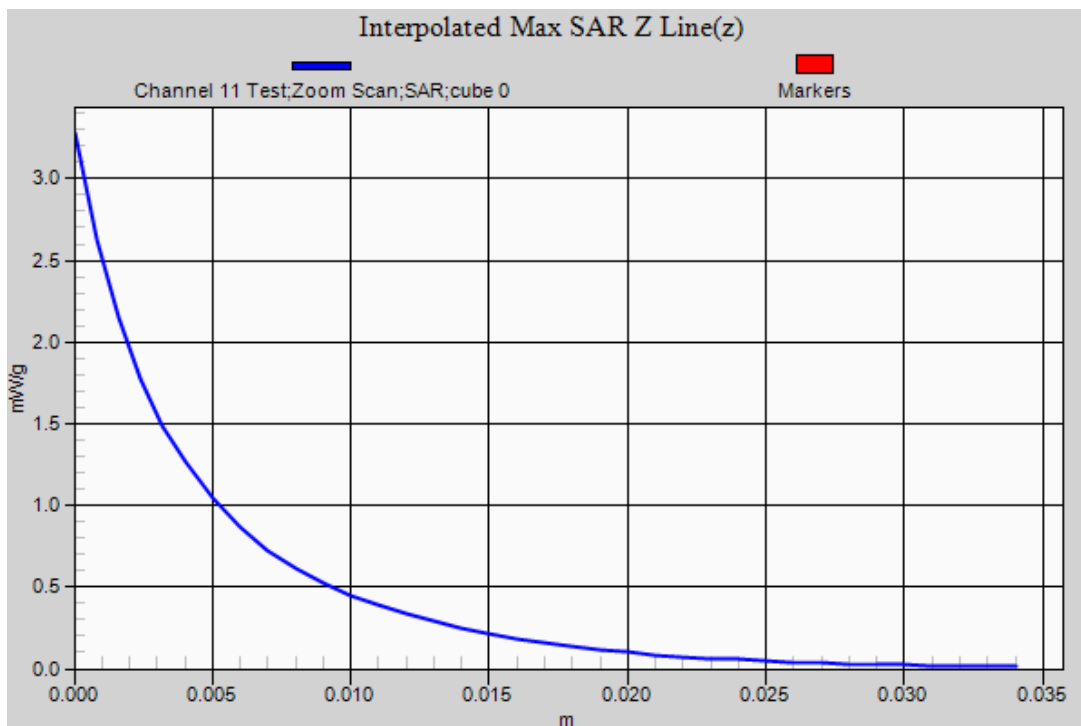
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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Test Date: 13 August 2012

File Name: M120812 Edge On Primary Portrait DSSS 2450 MHz Antenna A (1) 13-08-12.da52:0

**DUT: Fujitsu Tablet Quattro with HB116 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;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 51.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.0228 mW/g

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

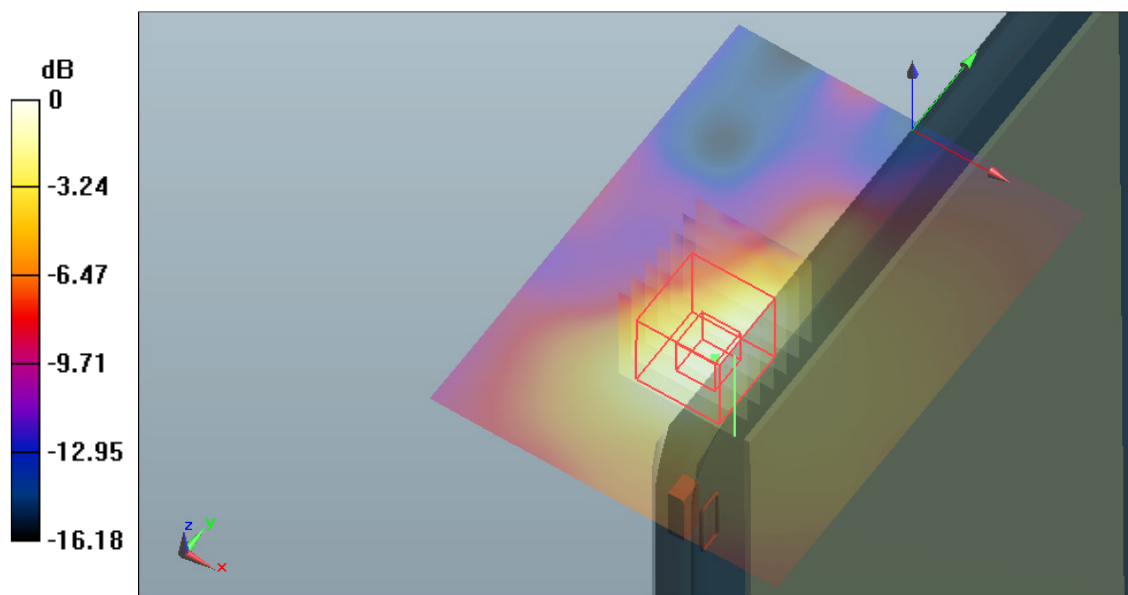
dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.084 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.045 mW/g

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00994 mW/g**

Maximum value of SAR (measured) = 0.0225 mW/g



0 dB = 0.0228 mW/g = -32.84 dB mW/g

**SAR MEASUREMENT PLOT 7**

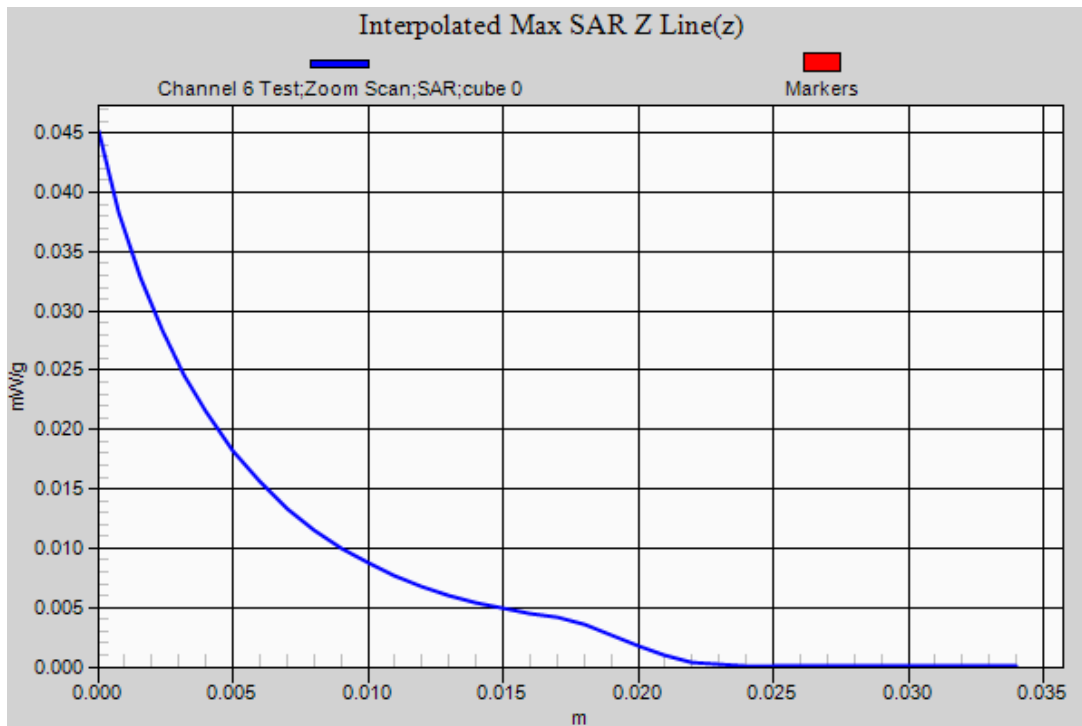
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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Test Date: 13 August 2012

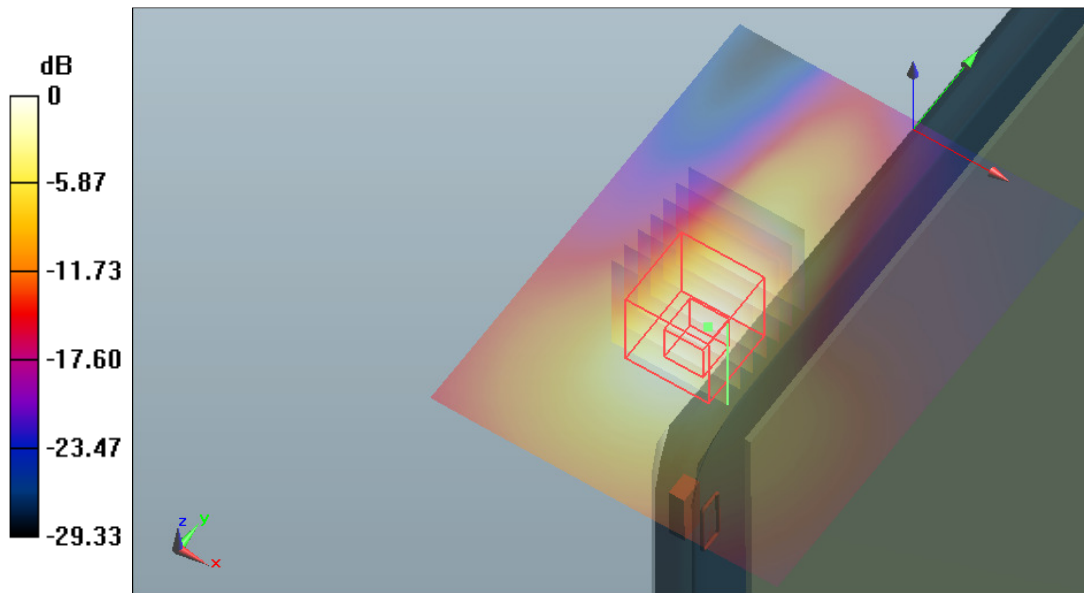
File Name: M120812 Edge On Primary Portrait DSSS 2450 MHz Antenna B (2) 13-08-12.da52:0

**DUT: Fujitsu Tablet Quattro with HB116 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;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 51.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.427 mW/g

**Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 11.283 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 0.809 mW/g  
**SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.171 mW/g**  
 Maximum value of SAR (measured) = 0.383 mW/g



0 dB = 0.427 mW/g = -7.39 dB mW/g

**SAR MEASUREMENT PLOT 8**

**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

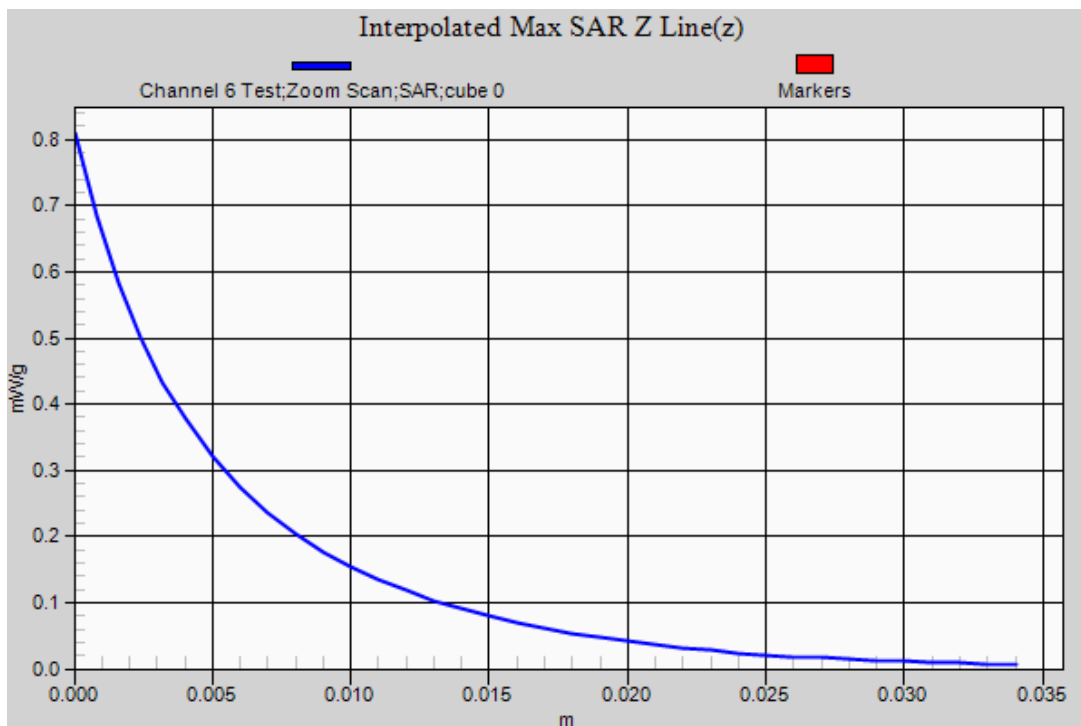
**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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**Test Date: 13 August 2012**

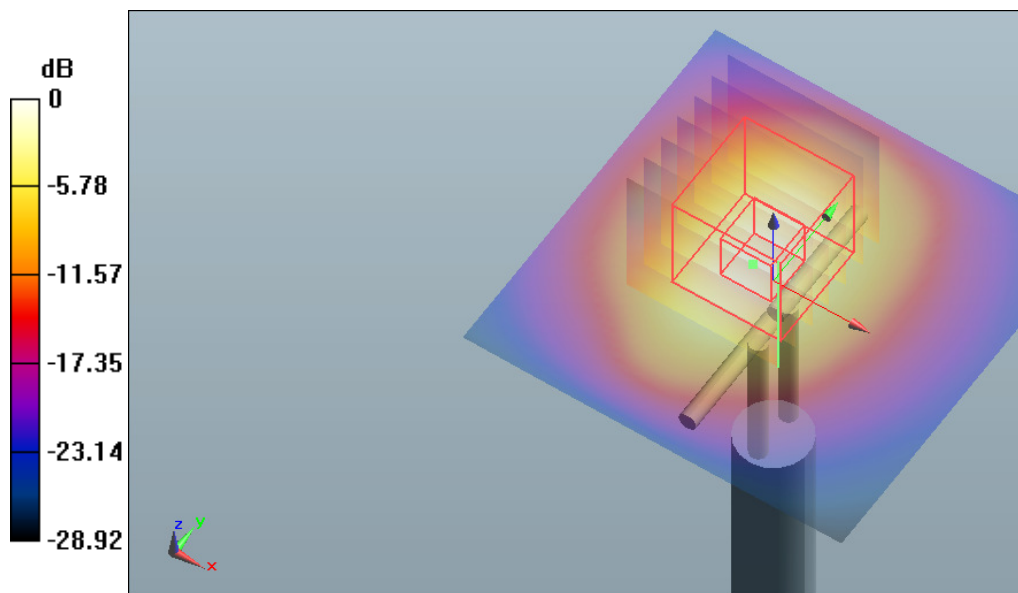
File Name: System Check 2450 MHz 13-08-12.da52:0

**DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724**

- \* Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
- \* Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.918$  mho/m;  $\epsilon_r = 51.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>
- 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):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 17.8 mW/g

**Configuration/Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 92.121 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 33.620 mW/g  
**SAR(1 g) = 14.6 mW/g; SAR(10 g) = 6.84 mW/g**  
 Maximum value of SAR (measured) = 16.1 mW/g



0 dB = 17.8 mW/g = 25.01 dB mW/g

**SAR MEASUREMENT PLOT 9**

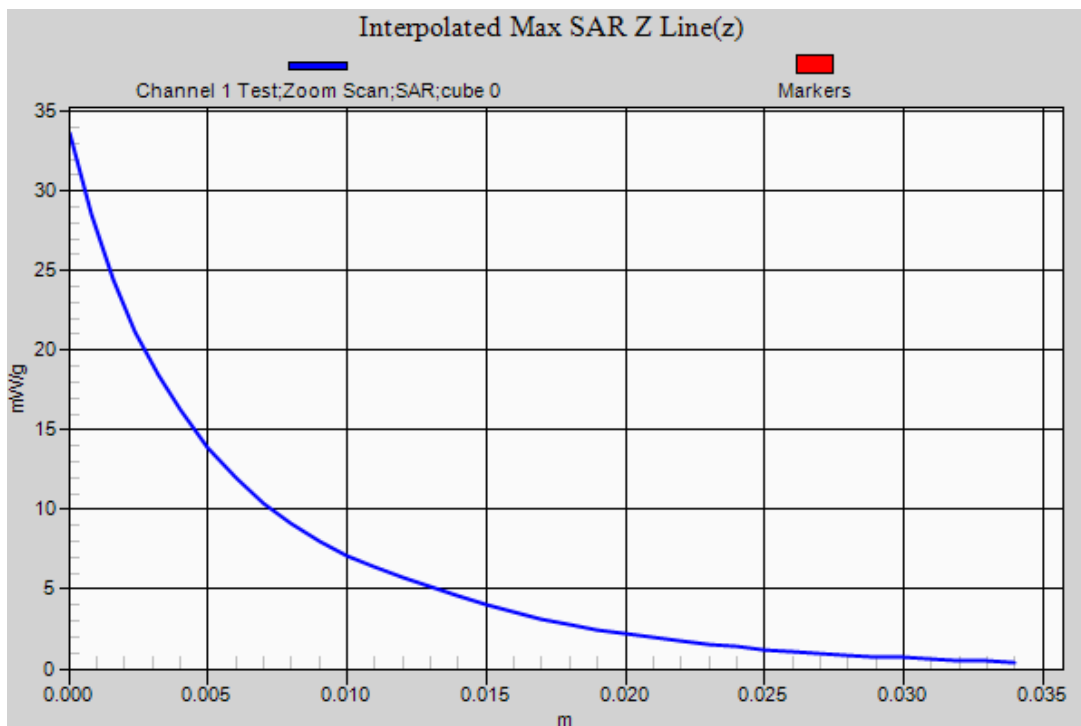
**Ambient Temperature**  
**Liquid Temperature**  
**Humidity**

**20.1 Degrees Celsius**  
**20.0 Degrees Celsius**  
**41.0%**



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