

APPENDIX A1 TEST SETUP PHOTOGRAPHS

Tablet Position



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. The spatial peak SAR values were assessed with the procedure described in this report.

Table: 5200 MHz Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Tablet	1	B	6	-	52
	2	A	6	-	36
Tablet	3	A	6	-	52
	4	A	6	-	64
Z-Axis graphs for Plots 1 to 4					

Table: 5600 MHz Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Tablet	5	B	6	-	120
Tablet	6	A	6	-	100
	7	A	6	-	120
	8	A	6	-	140
Z-Axis graphs for Plots 5 to 8					

Table: 5800 MHz Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Tablet	9	A	6	-	157
Tablet	10	B	6	-	149
	11	B	6	-	157
	12	B	6	-	165
Z-Axis graphs for Plots 9 to 12					

Table: Validation Plots

Plot 13	Validation 5200 MHz 6 th September 2008
Plot 14	Validation 5500 MHz 4 th September 2008
Plot 15	Validation 5800 MHz 4 th September 2008
	Z-Axis graphs for Plots 13 to 15



Test Date: 06 September 2008

File Name: Tablet_OFDM 5.2 GHz Antenna B 06-09-08.da4

DUT: **Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:**

* Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5260.6$ MHz; $\sigma = 5.6$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)

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

Channel 52 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.556 mW/g

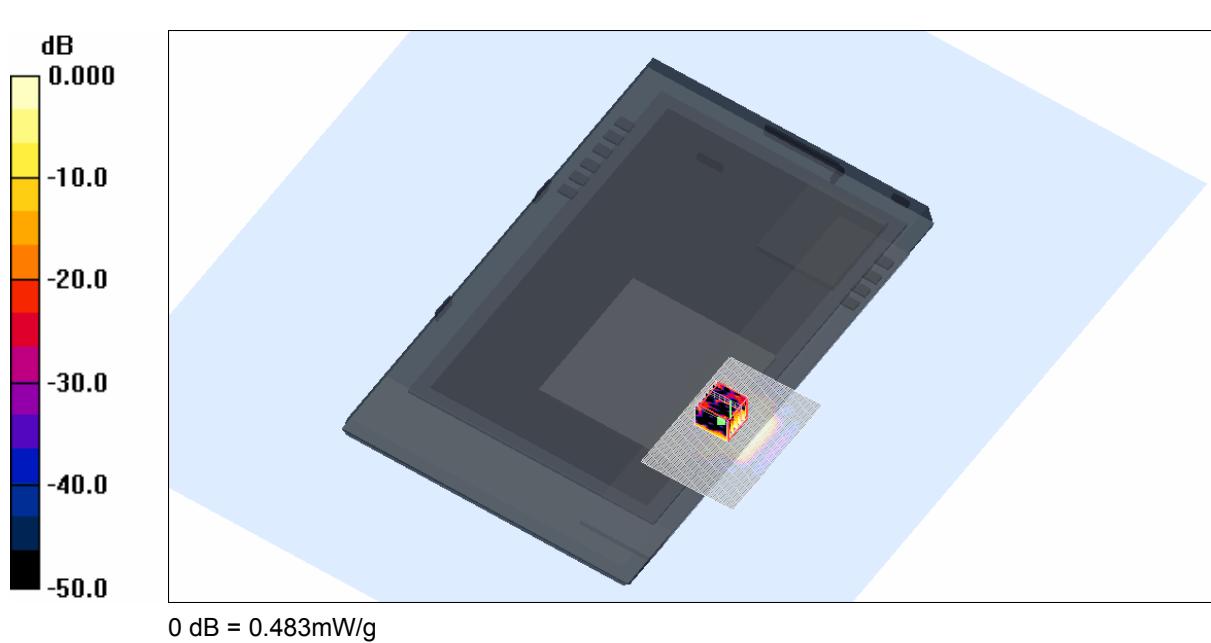
Channel 52 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 6.56 V/m; Power Drift = -0.242 dB

Peak SAR (extrapolated) = 0.830 W/kg

SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.088 mW/g

Maximum value of SAR (measured) = 0.483 mW/g



Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
39.0 %



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Test Date: 06 September 2008

File Name: Tablet_OFDM_5.2_GHz_Antenna_A_06-09-08.da4

DUT: Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:

* Communication System: OFDM 5250 MHz; Frequency: 5180 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5173$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 44.9$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)

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

Channel 36 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.314 mW/g

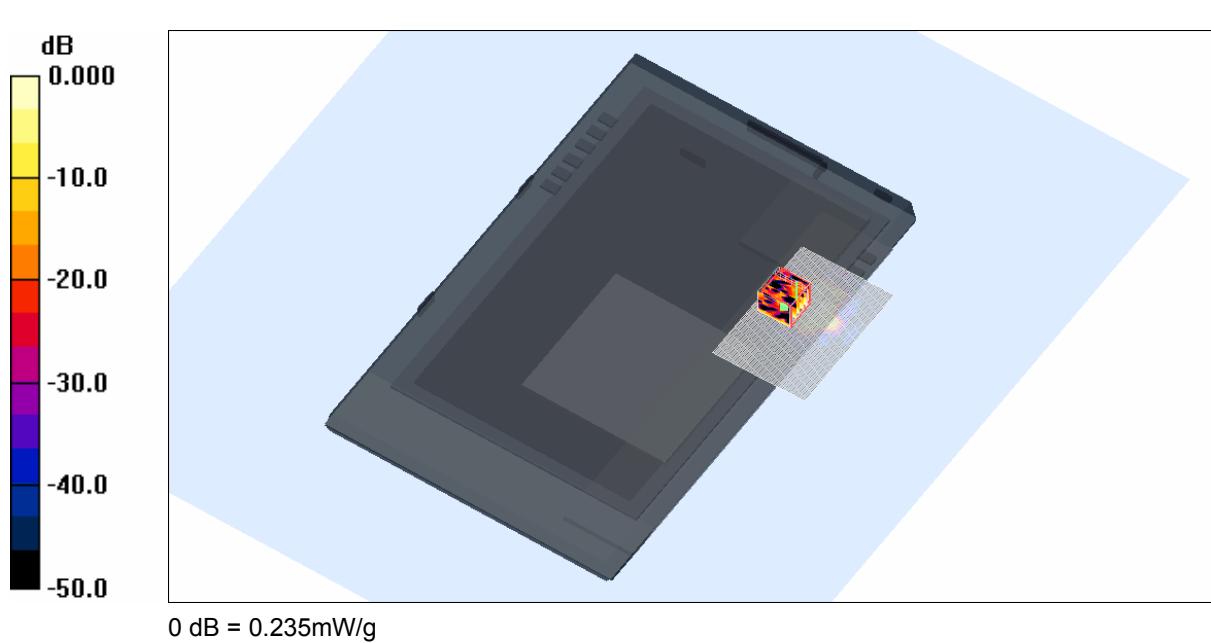
Channel 36 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.69 V/m; Power Drift = -0.205 dB

Peak SAR (extrapolated) = 0.413 W/kg

SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.235 mW/g



Ambient Temperature
Liquid Temperature
Humidity

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Test Date: 06 September 2008

File Name: Tablet_OFDM_5.2_GHz_Antenna_A_06-09-08.da4

DUT: Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:

* Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5260.6$ MHz; $\sigma = 5.6$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)

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

Channel 52 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.775 mW/g

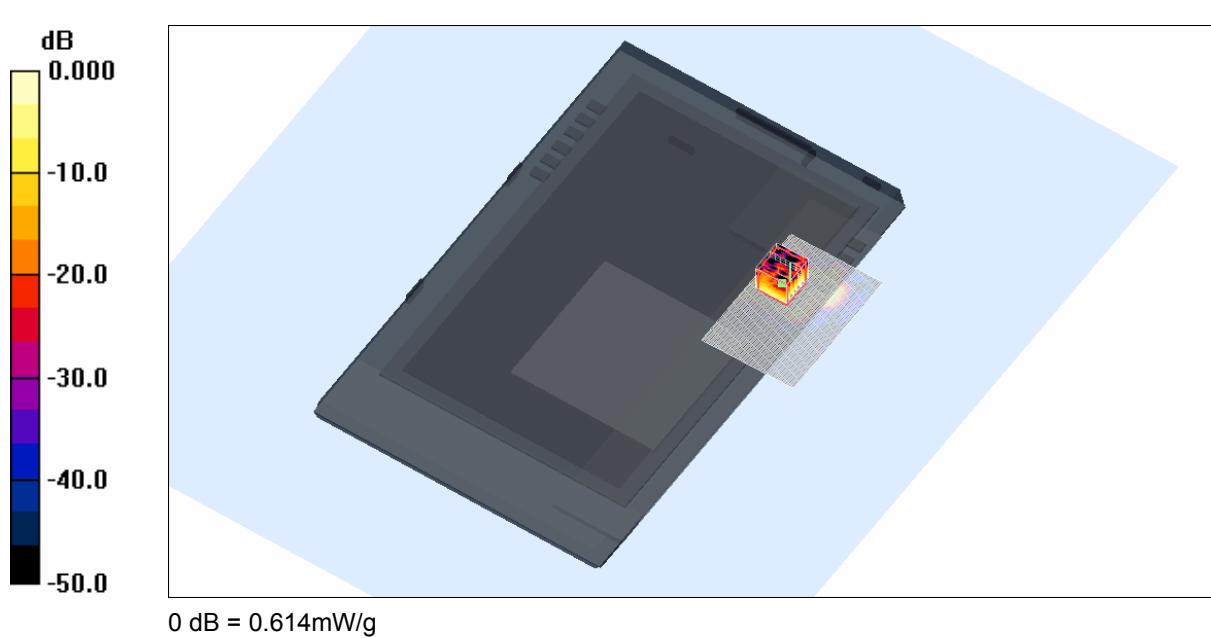
Channel 52 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.53 V/m; Power Drift = -0.465 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.614 mW/g



Ambient Temperature
Liquid Temperature
Humidity

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Test Date: 06 September 2008

File Name: Tablet_OFDM_5.2_GHz_Antenna_A_06-09-08.da4

DUT: **Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:**

* Communication System: OFDM 5250 MHz; Frequency: 5320 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5319$ MHz; $\sigma = 5.7$ mho/m; $\epsilon_r = 44.4$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)

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

Channel 64 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.834 mW/g

Channel 64 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

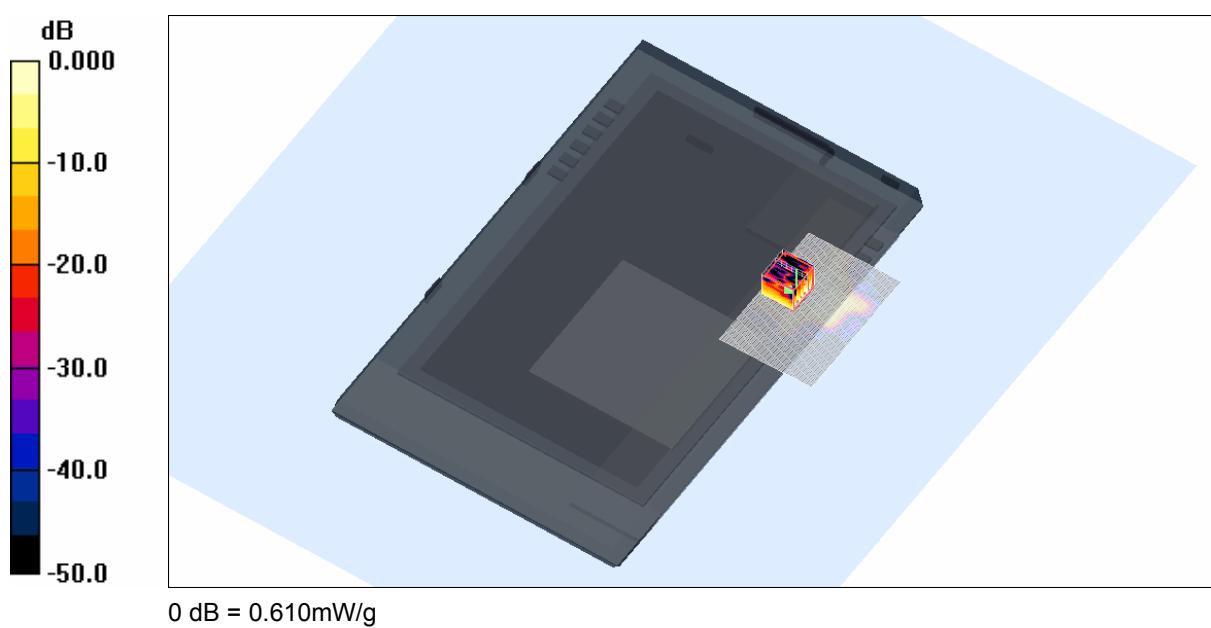
dz=2.5mm

Reference Value = 5.20 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.116 mW/g

Maximum value of SAR (measured) = 0.610 mW/g



Ambient Temperature
Liquid Temperature
Humidity

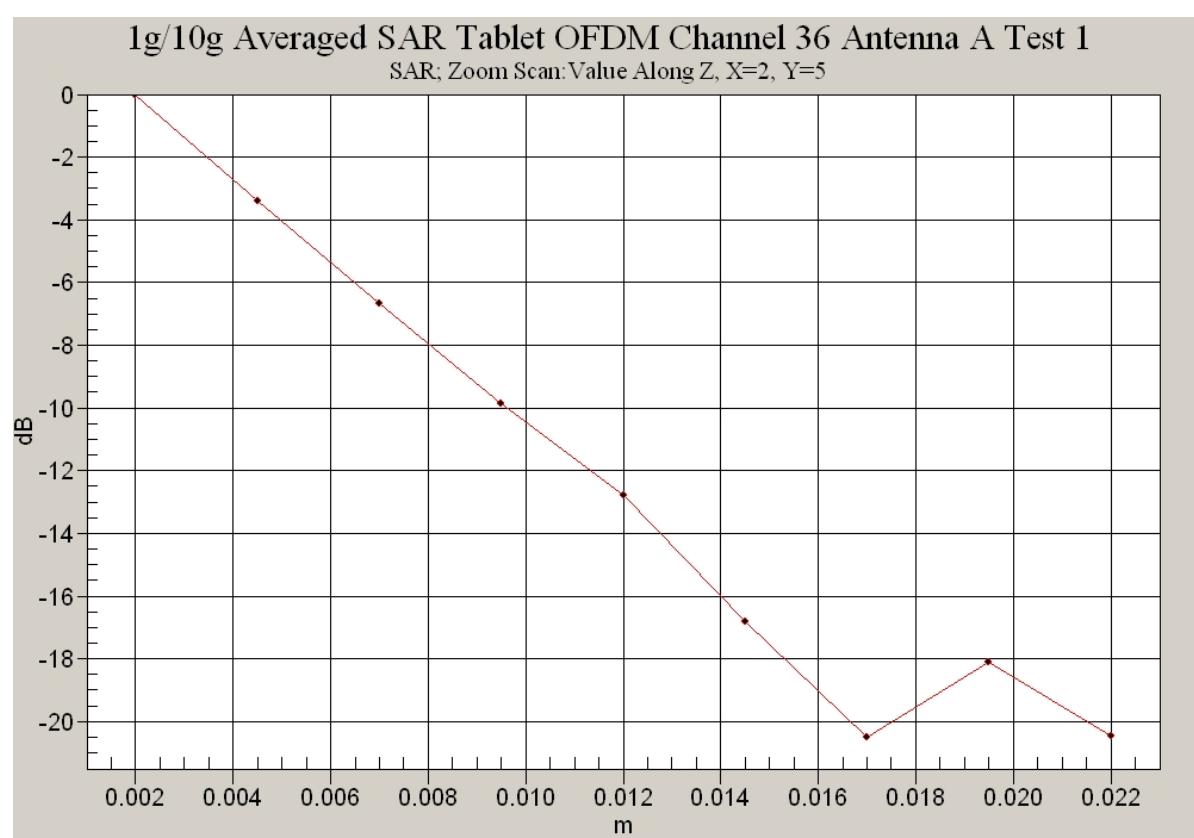
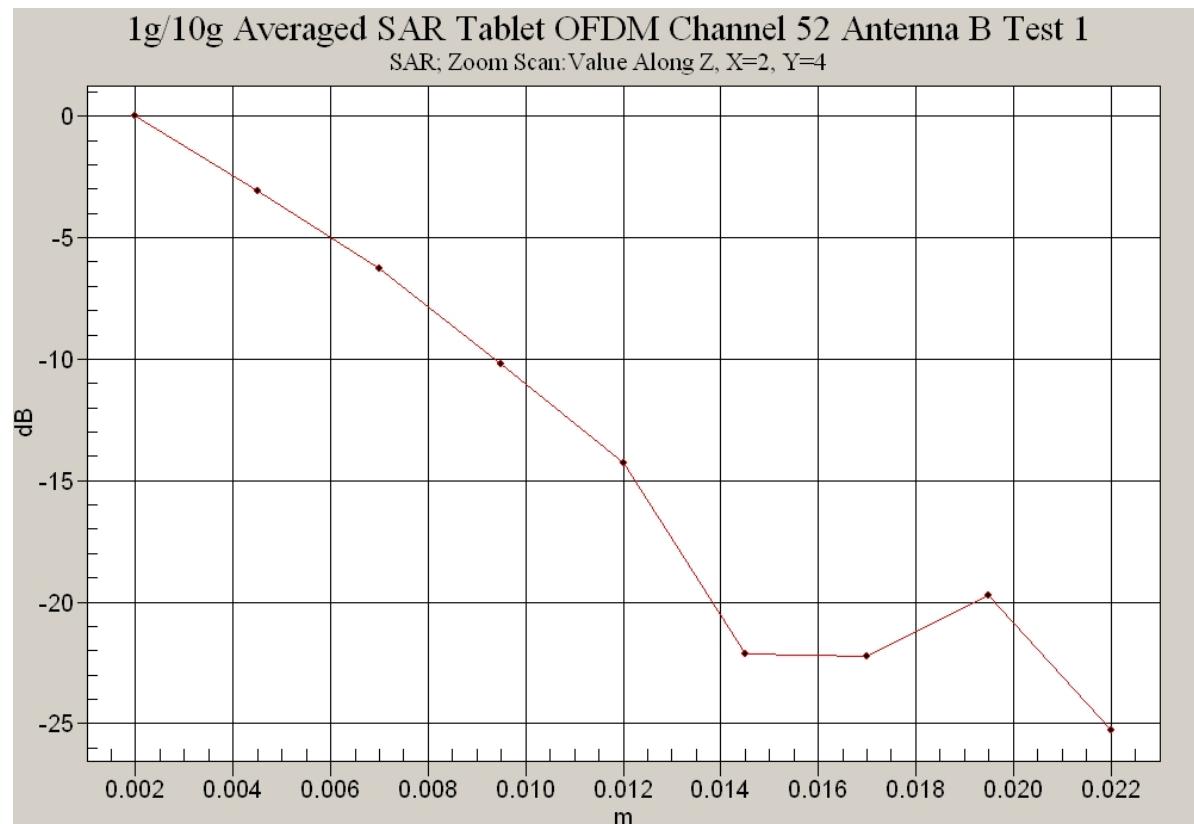
20.3 Degrees Celsius
20.1 Degrees Celsius
39.0 %



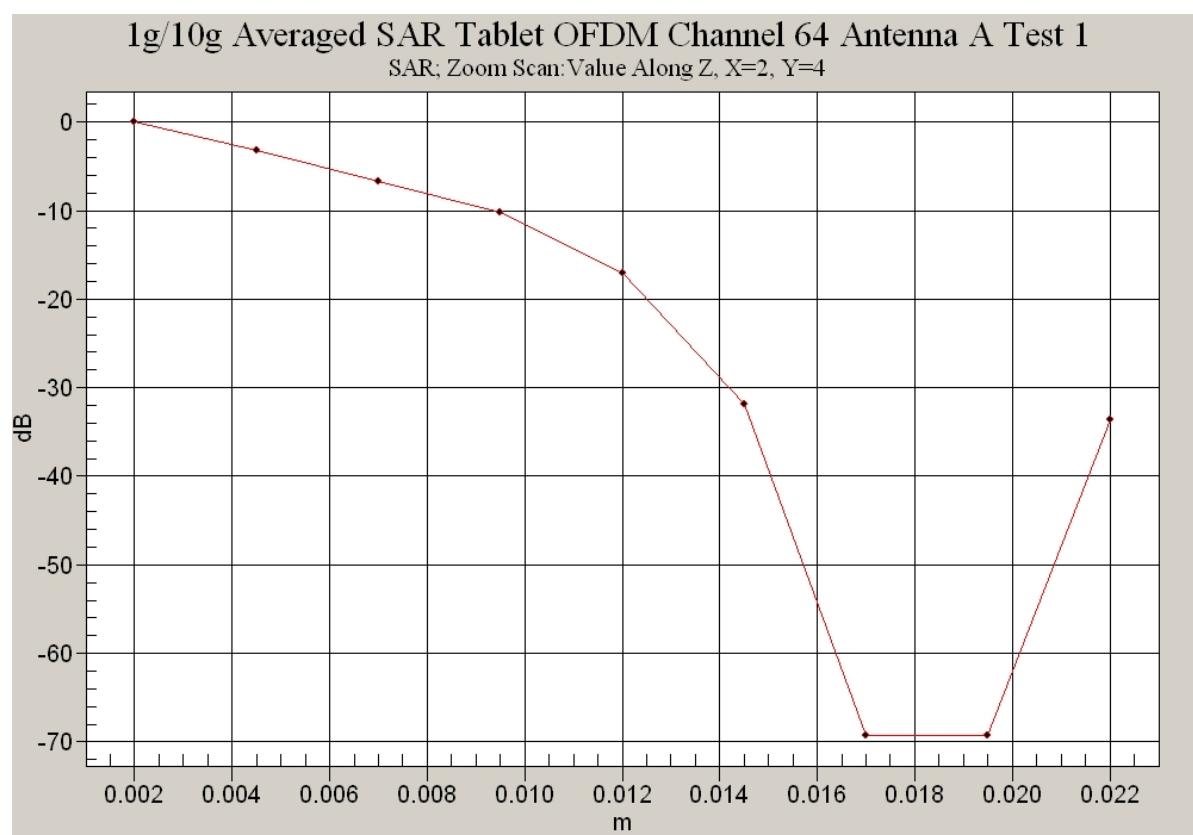
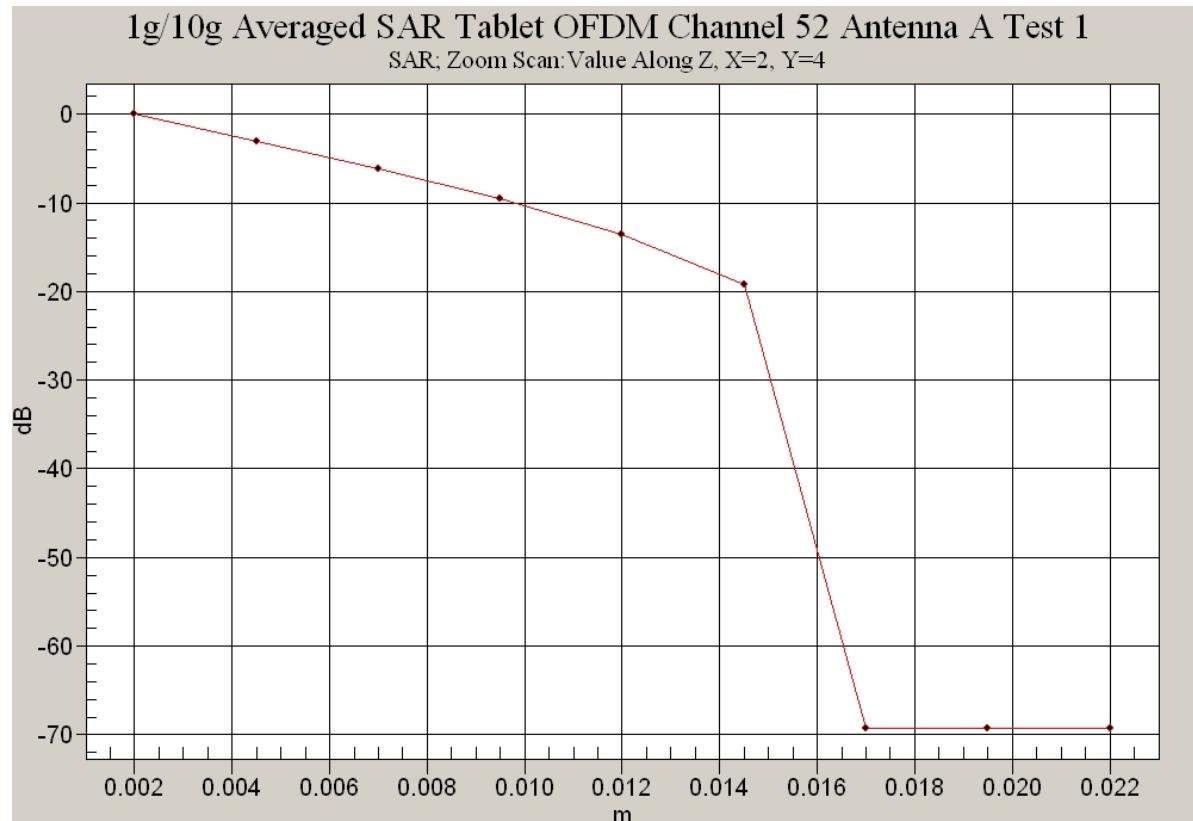
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Test Date: 04 September 2008

File Name: Tablet_OFDM_5.6_GHz_Antenna_B_04-09-08.da4

DUT: Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:

* Communication System: OFDM 5770 MHz; Frequency: 5600 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5596.4$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 120 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.584 mW/g

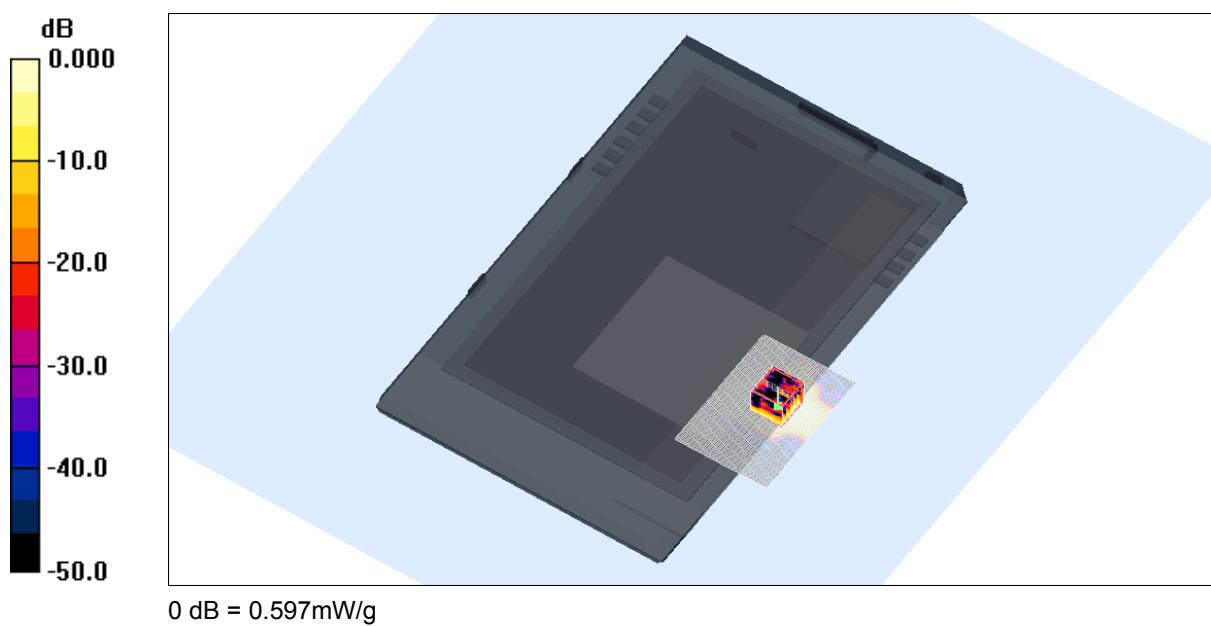
Channel 120 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.69 V/m; Power Drift = -0.400 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.597 mW/g



Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
36.0 %



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Test Date: 04 September 2008

File Name: Tablet_OFDM_5.6_GHz_Antenna_A_04-09-08.da4

DUT: Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:

* Communication System: OFDM 5770 MHz; Frequency: 5500 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5494.2$ MHz; $\sigma = 5.68$ mho/m; $\epsilon_r = 44.8$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 100 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.508 mW/g

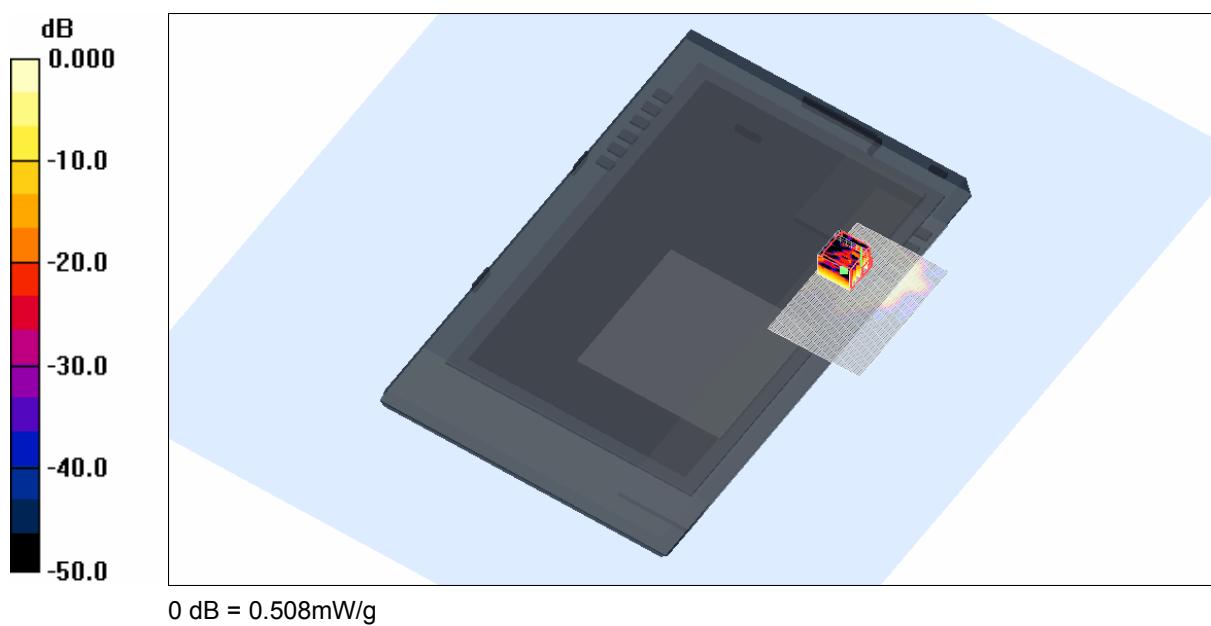
Channel 100 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.93 V/m; Power Drift = -0.357 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.508 mW/g



Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
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Test Date: 04 September 2008

File Name: Tablet_OFDM_5.6_GHz_Antenna_A_04-09-08.da4

DUT: Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:

* Communication System: OFDM 5770 MHz; Frequency: 5600 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5596.4$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 120 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.660 mW/g

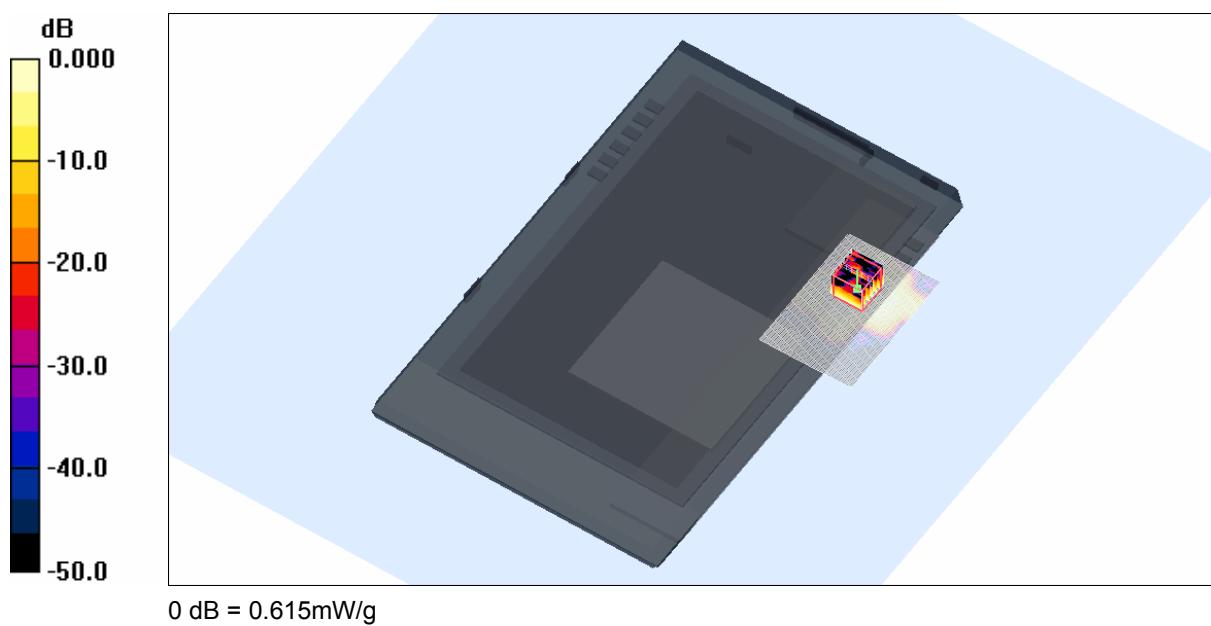
Channel 120 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 5.52 V/m; Power Drift = -0.410 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.615 mW/g



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Test Date: 04 September 2008

File Name: Tablet_OFDM_5.6_GHz_Antenna_A_04-09-08.da4

DUT: Fujitsu Tablet Oneya with HB92 2x2 abgn; Type: AR5BHB92; Serial: MAC:

* Communication System: OFDM 5770 MHz; Frequency: 5700 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5698.6$ MHz; $\sigma = 6.03$ mho/m; $\epsilon_r = 44.2$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 140 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.409 mW/g

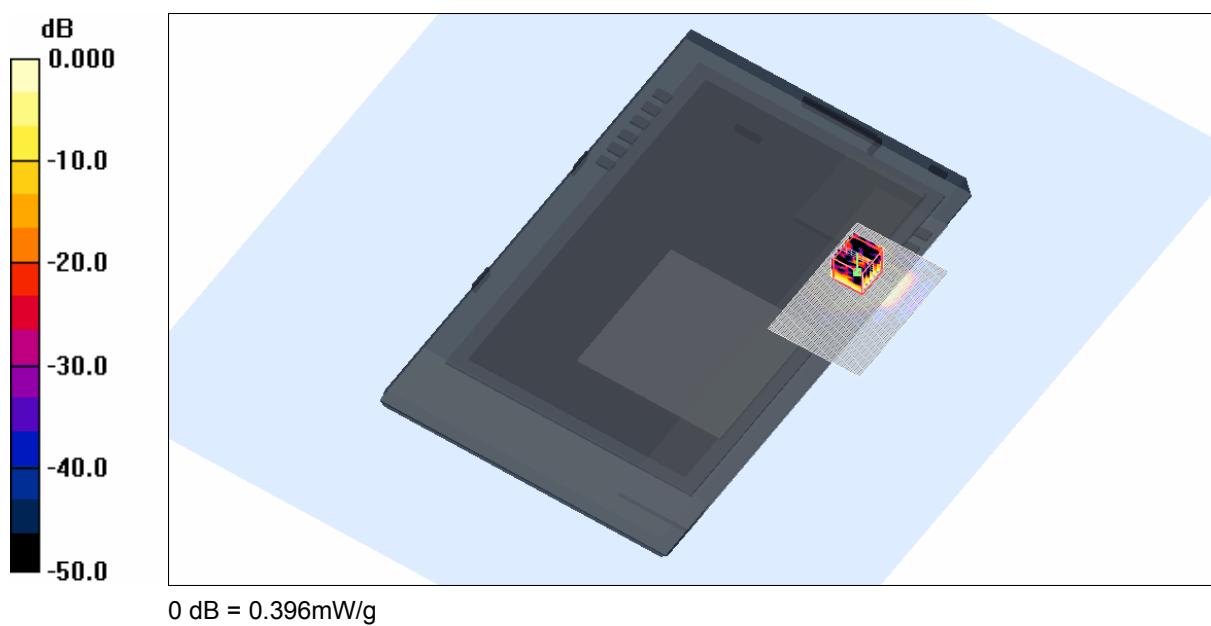
Channel 140 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.97 V/m; Power Drift = 0.057 dB

Peak SAR (extrapolated) = 0.717 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.396 mW/g



Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
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36.0 %



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