

APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for the “Lap Arm Held”, “Tablet” and “Edge On” tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table 15: 5800 MHz Band SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position – Ant Aux -- Prescan	CH#157
Plot 2	Lap Arm Held Position – Ant Main -- Prescan	CH#157
Plot 3	Lap Arm Held Position – Ant Aux	CH#149
Plot 4	Lap Arm Held Position – Ant Aux	CH#157
Plot 5	Lap Arm Held Position – Ant Aux	CH#165
Z-Axis graphs	Z-Axis graphs for Plots 3 to 5	
Plot 6	Lap Arm Held Position – Ant Main	CH#149
Plot 7	Lap Arm Held Position – Ant Main	CH#157
Plot 8	Lap Arm Held Position – Ant Main	CH#165
Z-axis graphs	Z-Axis graphs for Plots 6 to 8	
Plot 9	Edge On Position – Ant Main	CH#149
Plot 10	Edge On Position – Ant Main	CH#157
Plot 11	Edge On Position – Ant Main	CH#165
Plot 12	Edge On Position – Ant Aux	CH#157
Z-axis graphs	Z-Axis graphs for Plots 9 to 12	
	WLAN with Bluetooth On	
Plot 13	Lap Arm Held Position – Ant Main	CH#165
Plot 14	Lap Arm Held Position – Ant Aux	CH#157
Plot 15	Edge On Position – Ant Main	CH#157
Plot 16	Tablet Position – Ant Main	CH#157
Z-Axis graphs	Z-Axis graphs for Plots 13 to 16	

Table 16: 5200 MHz Band SAR Measurement Plot Numbers

Plot 17	Lap Arm Held Position – Ant Aux	CH#36
Plot 18	Lap Arm Held Position – Ant Aux	CH#52
Plot 19	Lap Arm Held Position – Ant Aux	CH#64
Z-axis graphs	Z-Axis graphs for Plots 17 to 19	
Plot 20	Lap Arm Held Position – Ant Main	CH#36
Plot 21	Lap Arm Held Position – Ant Main	CH#52
Plot 22	Lap Arm Held Position – Ant Main	CH#64
Z-axis graphs	Z-Axis graphs for Plots 20 to 22	
Plot 23	Edge On Position – Ant Main	CH#36
Plot 24	Edge On Position – Ant Main	CH#52
Plot 25	Edge On Position – Ant Main	CH#64
Plot 26	Edge On Position – Ant Aux	CH#52
Z-axis graphs	Z-Axis graphs for Plots 23 to 26	
	WLAN with Bluetooth On	
Plot 27	Lap Arm Position With Blue tooth Ant Aux BTCH#01	CH#64
Plot 28	Lap Arm Position With Blue tooth Ant Main BTCH#40	CH#36
Plot 29	Edge On Position With Blue tooth Ant Main BTCH#79	CH#36
Z-axis graphs	Z-Axis graphs for Plots 27 to 29	

Table 17: 2450MHz Validation Plot

Plot 30	Validation 5800 MHz 1 st March 2006
Plot 31	Validation 5800 MHz 2 nd March 2006
Plot 32	Validation 5800 MHz 3 rd March 2006
Z-Axis Graphs	Z-Axis graphs for Plots 30 & 32

Test Date: 1 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalius Antenna Aux Bluetooth Off Prescan 01-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

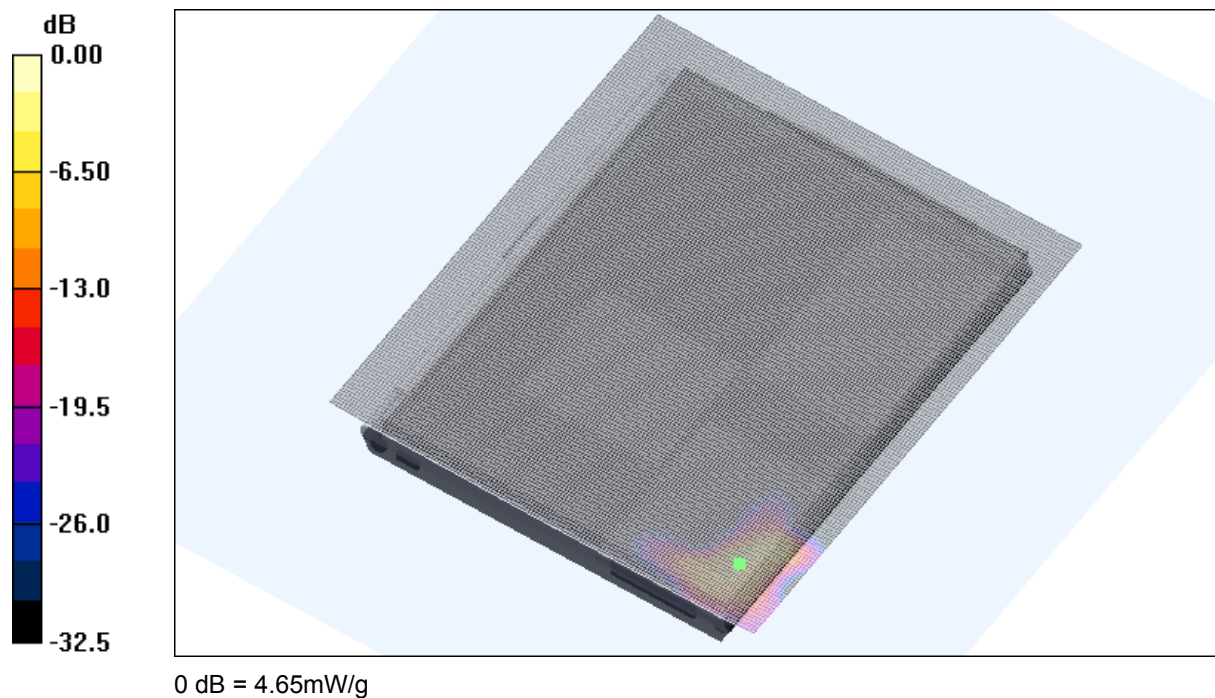
* Medium parameters used: $\sigma = 6.17624$ mho/m, $\epsilon_r = 47.5805$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 157 Test/Area Scan (141x161x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.82 mW/g



SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
56.0 %

Test Date: 1 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalius Antenna Main Bluetooth Off Prescan 01-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

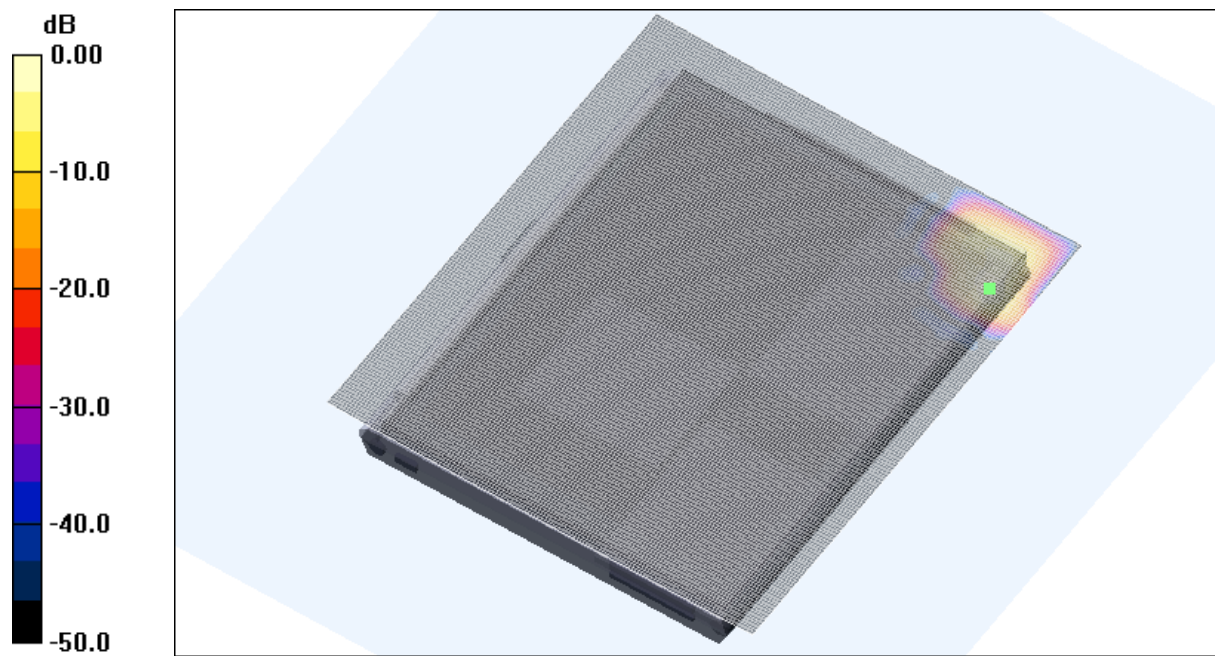
* Medium parameters used: $\sigma = 6.17624$ mho/m, $\epsilon_r = 47.5805$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 157 Test/Area Scan (141x161x1): Measurement grid: dx=20mm, dy=20mm

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



0 dB = 2.38mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
56.0 %

Test Date: 2 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalium Antenna Aux Bluetooth Off 02-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5745 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.35218$ mho/m, $\epsilon_r = 48.8522$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 149 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.06 mW/g

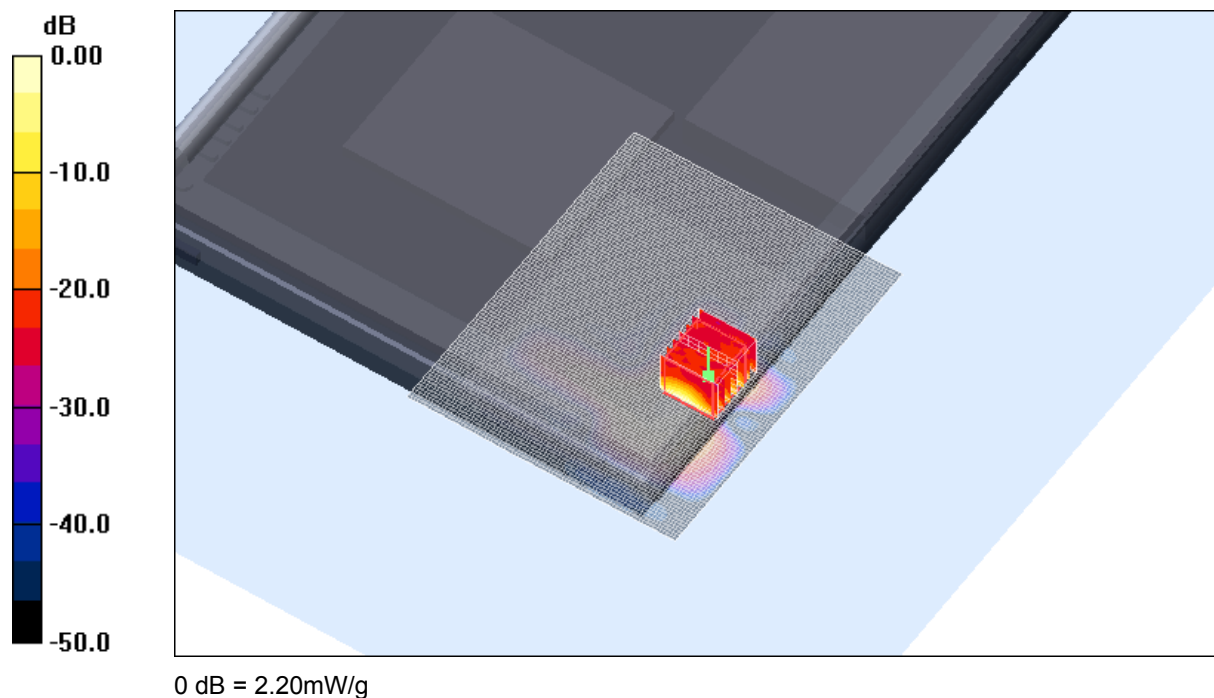
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.4 V/m; Power Drift = -0.172 dB

Peak SAR (extrapolated) = 4.76 W/kg

SAR(1 g) = 0.884 mW/g; SAR(10 g) = 0.239 mW/g

Maximum value of SAR (measured) = 2.20 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.9 Degrees Celsius
58.0 %

Test Date: 2 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalium Antenna Aux Bluetooth Off 02-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.42636$ mho/m, $\epsilon_r = 48.6973$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 157 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.967 mW/g

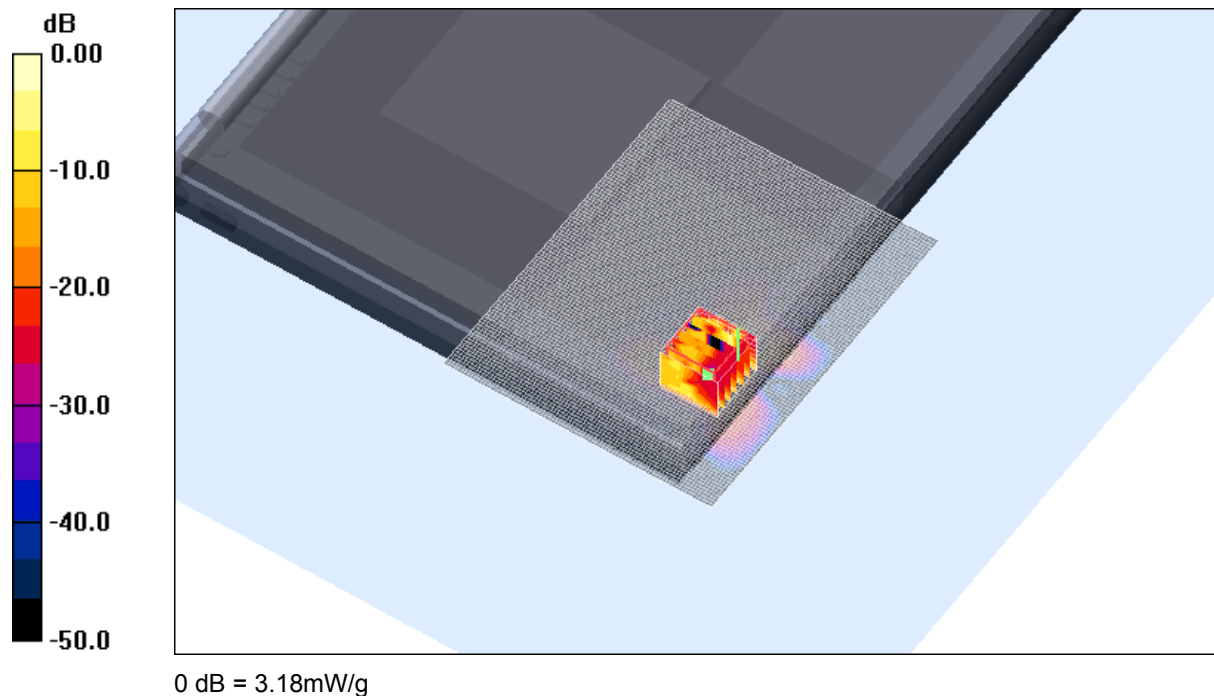
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13.3 V/m; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 7.39 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.345 mW/g

Maximum value of SAR (measured) = 3.18 mW/g



SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.9 Degrees Celsius
58.0 %

Test Date: 2 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalium Antenna Aux Bluetooth Off 02-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5825 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.4944$ mho/m, $\epsilon_r = 48.4501$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 165 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

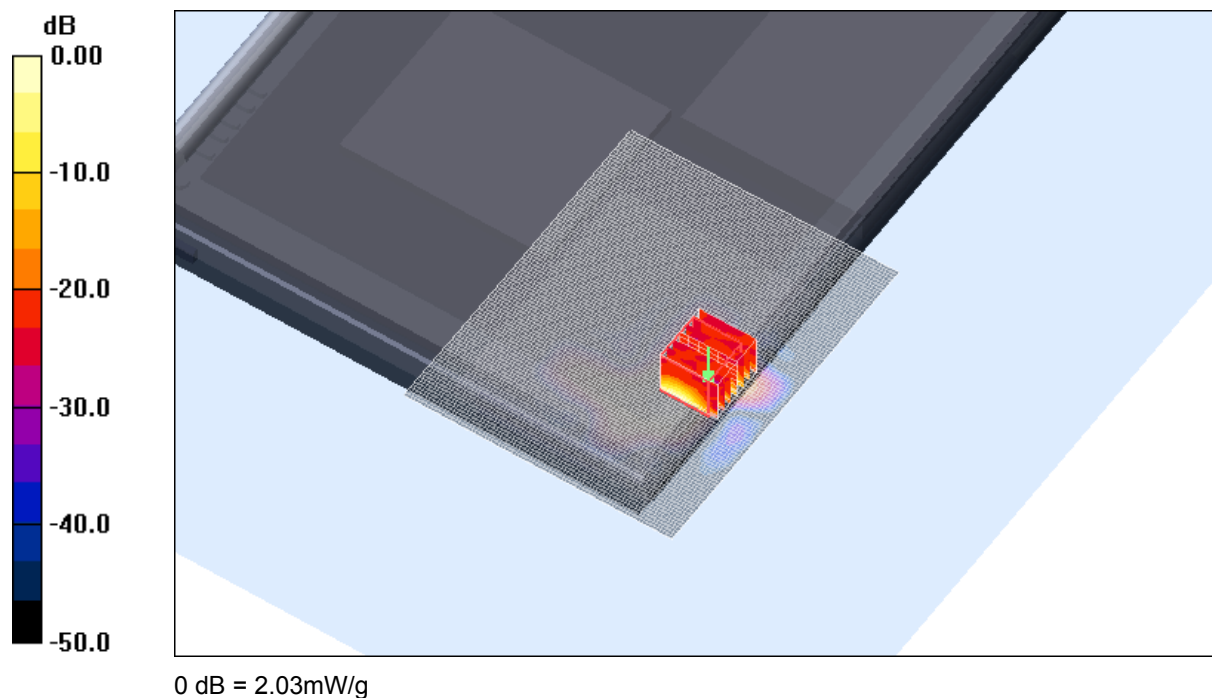
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.7 V/m; Power Drift = -0.313 dB

Peak SAR (extrapolated) = 5.00 W/kg

SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 2.03 mW/g

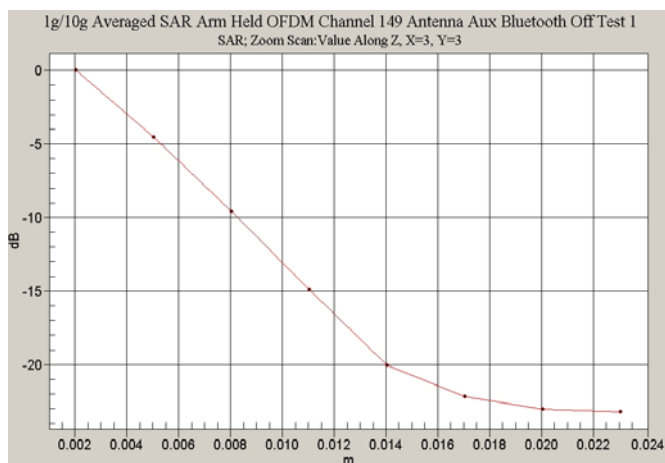


SAR MEASUREMENT PLOT 5

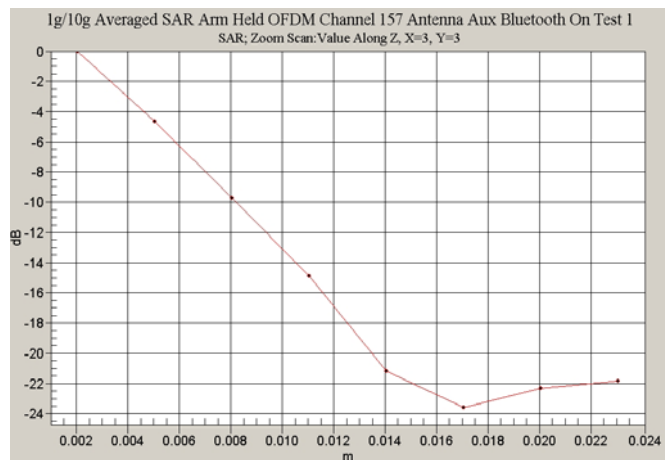
Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.9 Degrees Celsius
58.0 %

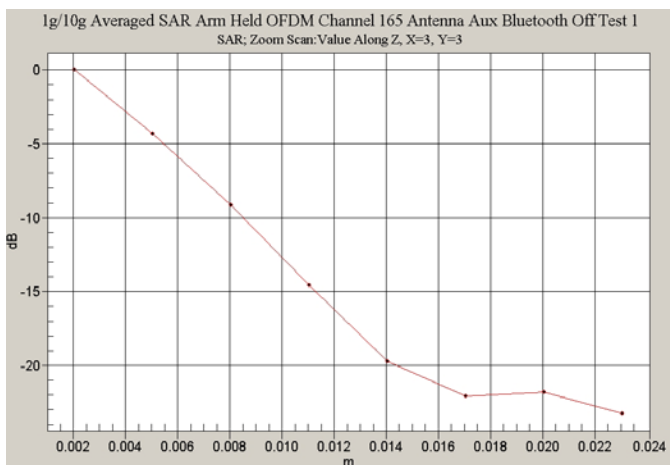
Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Test Date: 1 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalius Antenna Main Bluetooth Off 01-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5745 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.1055$ mho/m, $\epsilon_r = 47.6788$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 149 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.981 mW/g

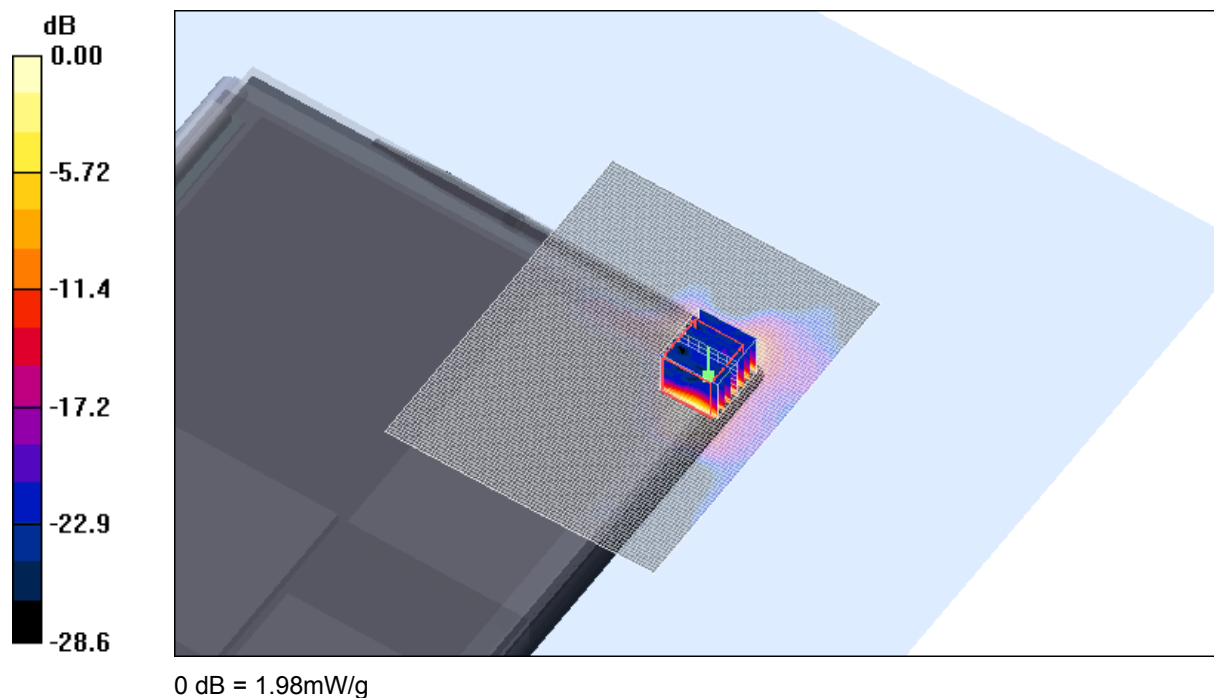
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 12.8 V/m; Power Drift = -0.204 dB

Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 1.98 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
56.0 %

Test Date: 1 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalius Antenna Main Bluetooth Off 01-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.17624$ mho/m, $\epsilon_r = 47.5805$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 157 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.11 mW/g

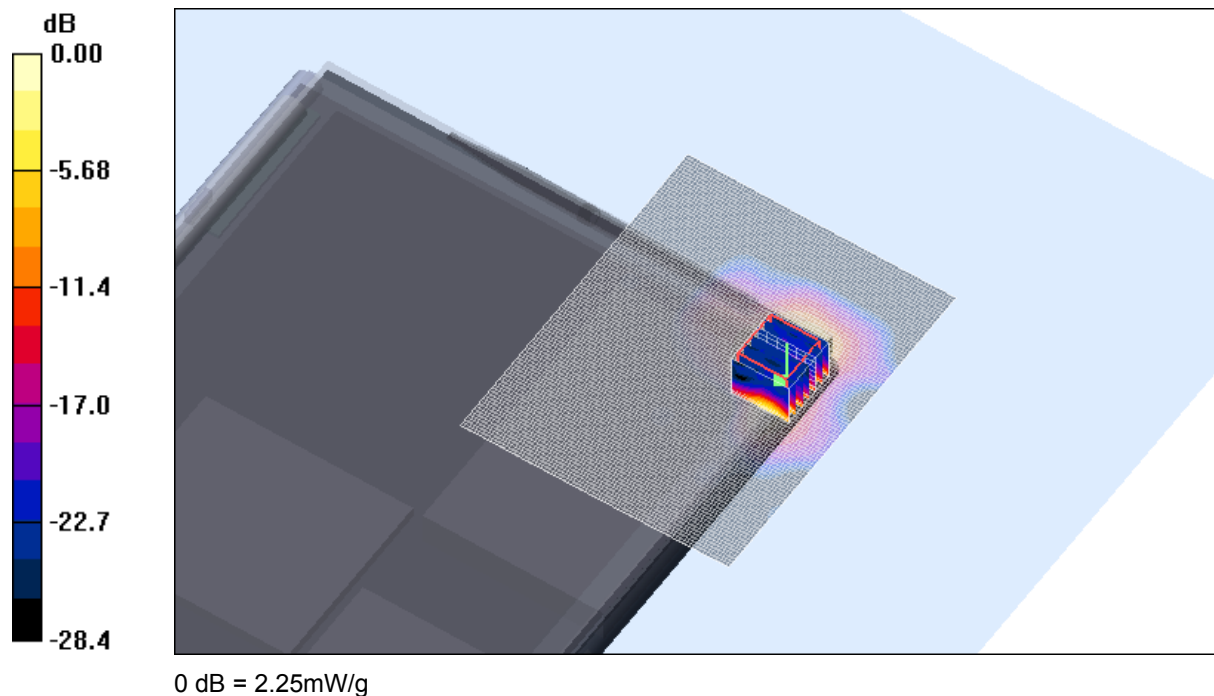
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.0 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 4.81 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.321 mW/g

Maximum value of SAR (measured) = 2.25 mW/g



SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
56.0 %

Test Date: 1 March 2006

File Name: [Arm Held OFDM 5.77 GHz Versalium Antenna Main Bluetooth Off 01-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

* Communication System: OFDM 5770 MHz; Frequency: 5825 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.21696$ mho/m, $\epsilon_r = 47.4207$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.99, 3.99, 3.99)

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

Channel 165 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.10 mW/g

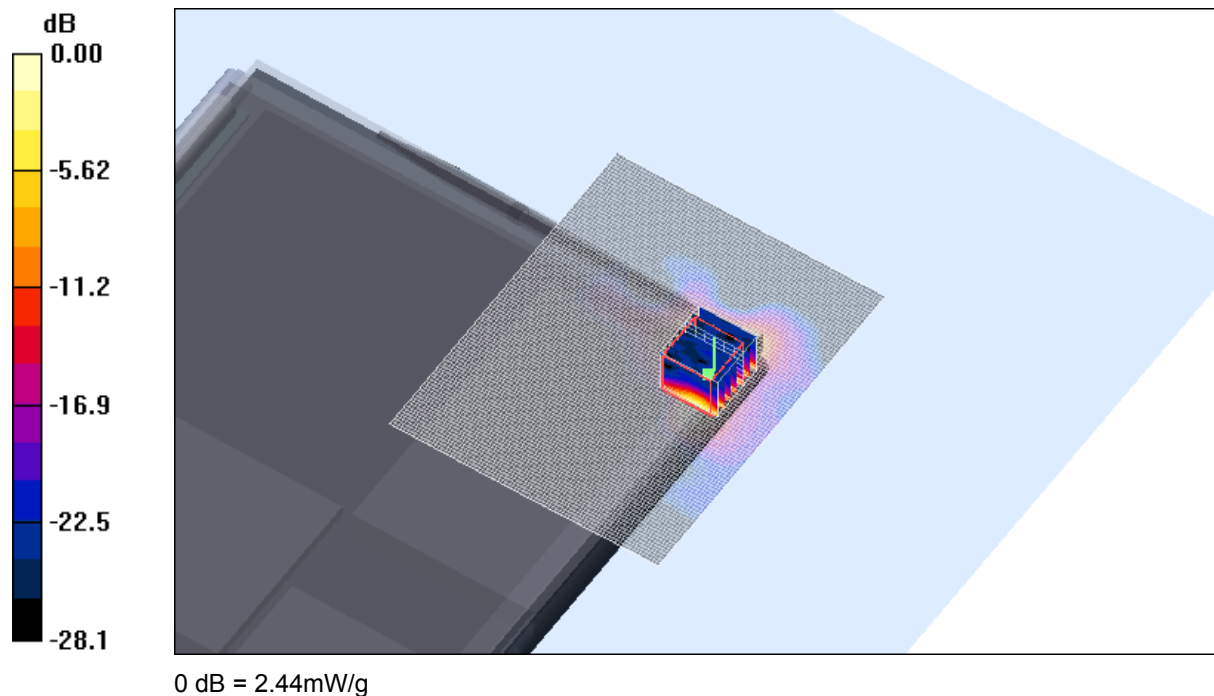
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13.9 V/m; Power Drift = -0.224 dB

Peak SAR (extrapolated) = 5.00 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.326 mW/g

Maximum value of SAR (measured) = 2.44 mW/g

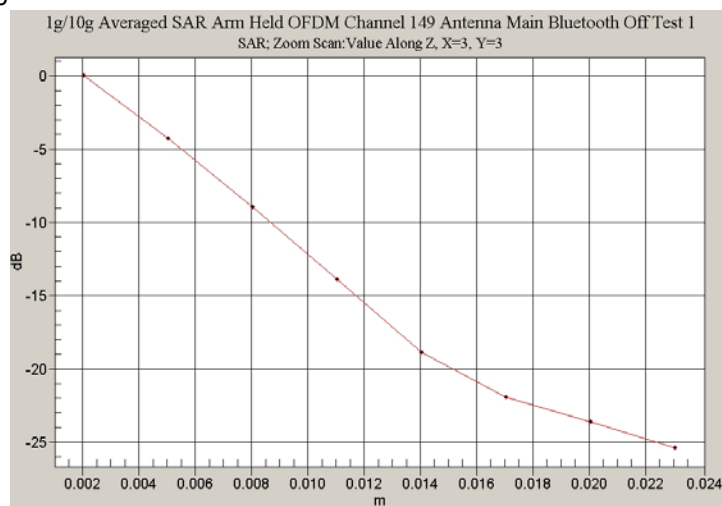


SAR MEASUREMENT PLOT 8

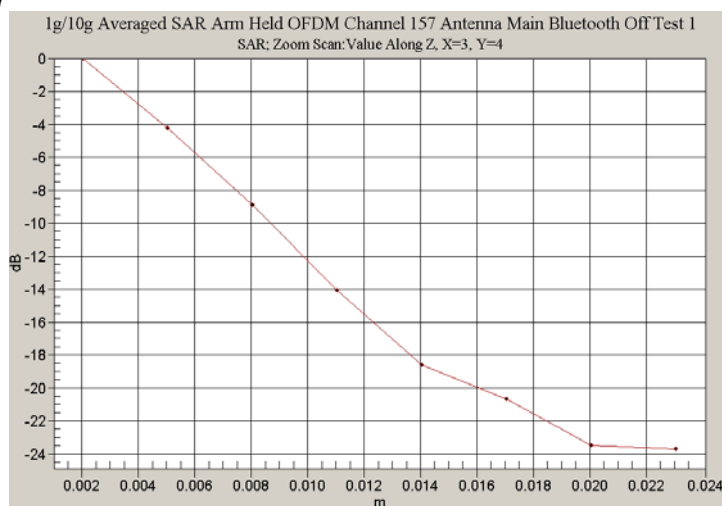
Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
56.0 %

Z-Axis Graph for Plot 6



Z-Axis Graph for Plot 7



Z-Axis Graph for Plot 8

