

Test Date: 3 March 2006

File Name: [Arm Held OFDM 5.25 GHz Versalius Antenna Main Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.41532$ mho/m, $\epsilon_r = 50.4286$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 36 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.32 mW/g

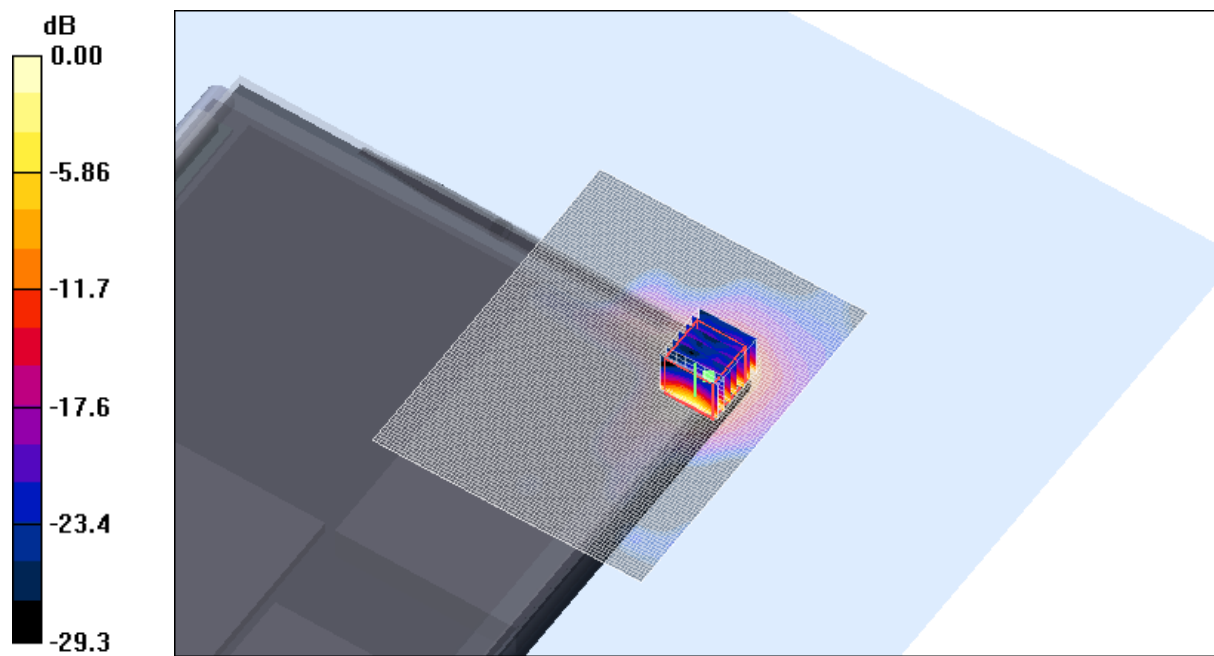
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.7 V/m; Power Drift = -0.264 dB

Peak SAR (extrapolated) = 4.25 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.361 mW/g

Maximum value of SAR (measured) = 2.28 mW/g



SAR MEASUREMENT PLOT 19

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Arm Held OFDM 5.25 GHz Versalius Antenna Main Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.60158$ mho/m, $\epsilon_r = 50.1824$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 52 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.25 mW/g

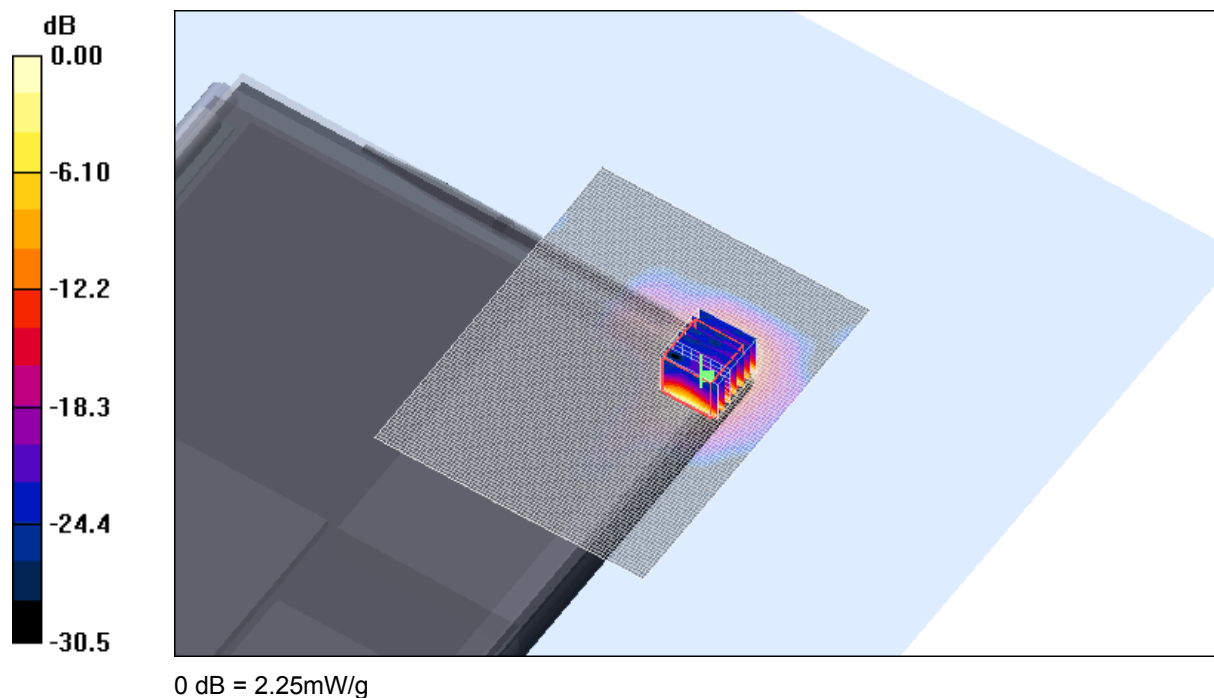
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.7 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 4.06 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.316 mW/g

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



SAR MEASUREMENT PLOT 20

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Arm Held OFDM 5.25 GHz Versalius Antenna Main Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.71477$ mho/m, $\epsilon_r = 49.994$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 64 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.33 mW/g

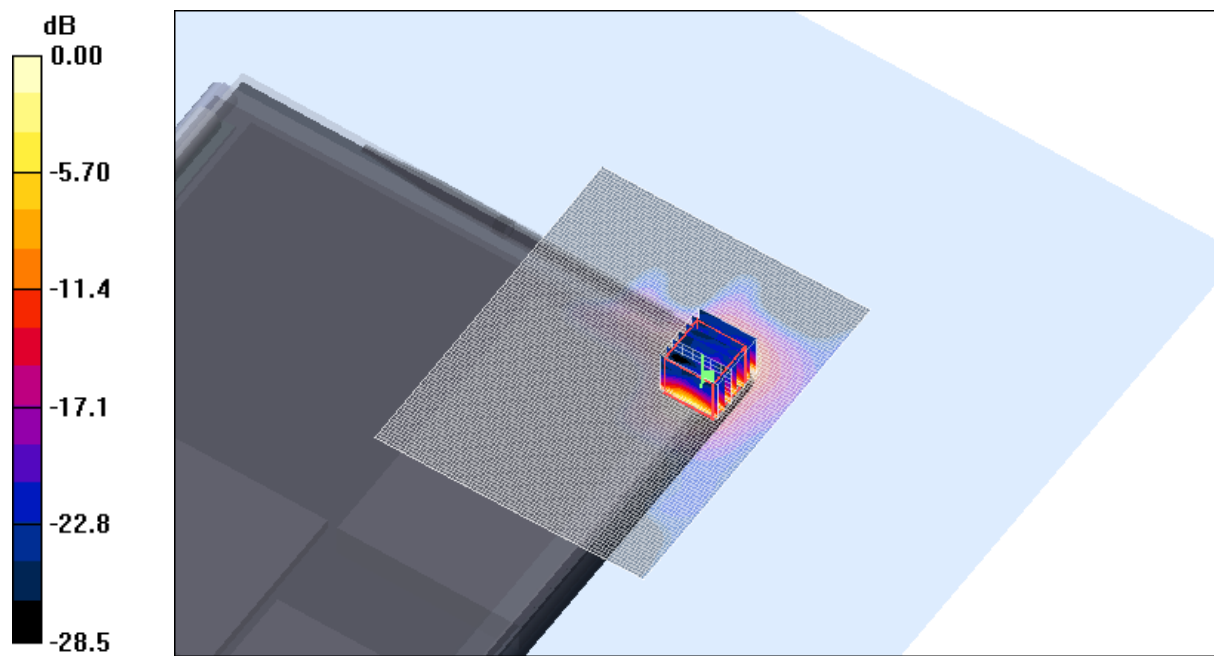
Channel 64 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.9 V/m; Power Drift = -0.255 dB

Peak SAR (extrapolated) = 4.32 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.333 mW/g

Maximum value of SAR (measured) = 2.34 mW/g



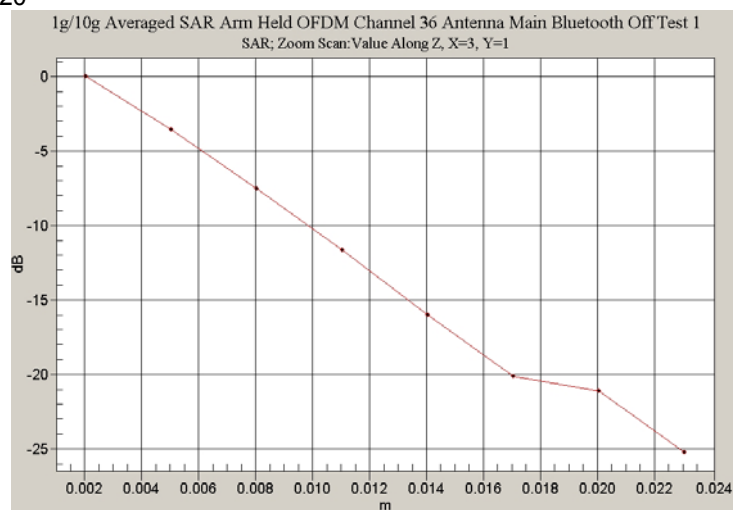
0 dB = 2.34mW/g

SAR MEASUREMENT PLOT 21

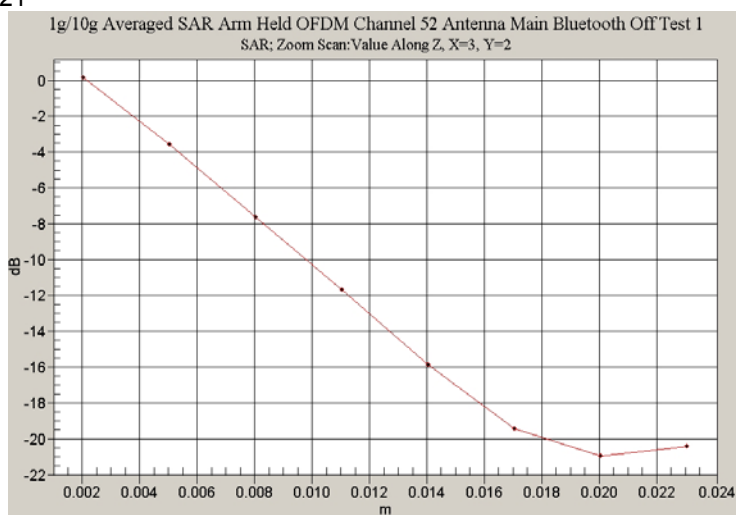
Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

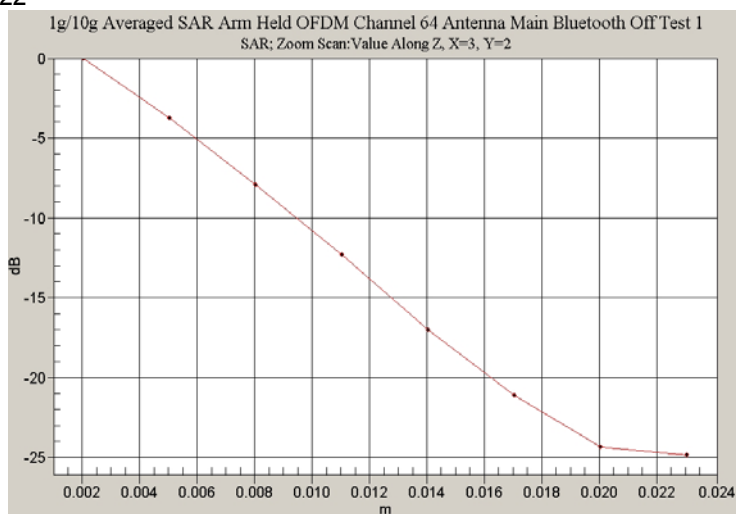
Z-Axis Graph for Plot 20



Z-Axis Graph for Plot 21



Z-Axis Graph for Plot 22



Test Date: 3 March 2006

File Name: [Edge On OFDM 5.25 GHz versalius Antenna Main Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.41532$ mho/m, $\epsilon_r = 50.4286$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 36 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.44 mW/g

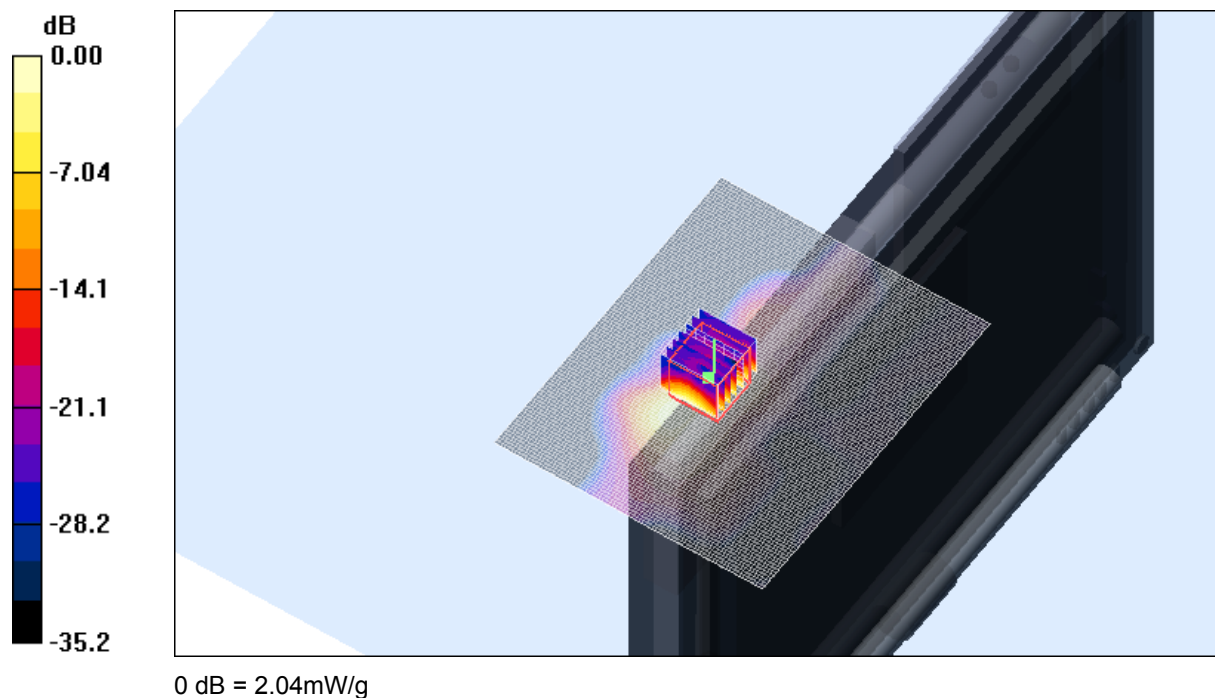
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 11.7 V/m; Power Drift = 0.396 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.348 mW/g

Maximum value of SAR (measured) = 2.04 mW/g



SAR MEASUREMENT PLOT 22

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Edge On OFDM 5.25 GHz versalius Antenna Main Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.60158$ mho/m, $\epsilon_r = 50.1824$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 52 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.23 mW/g

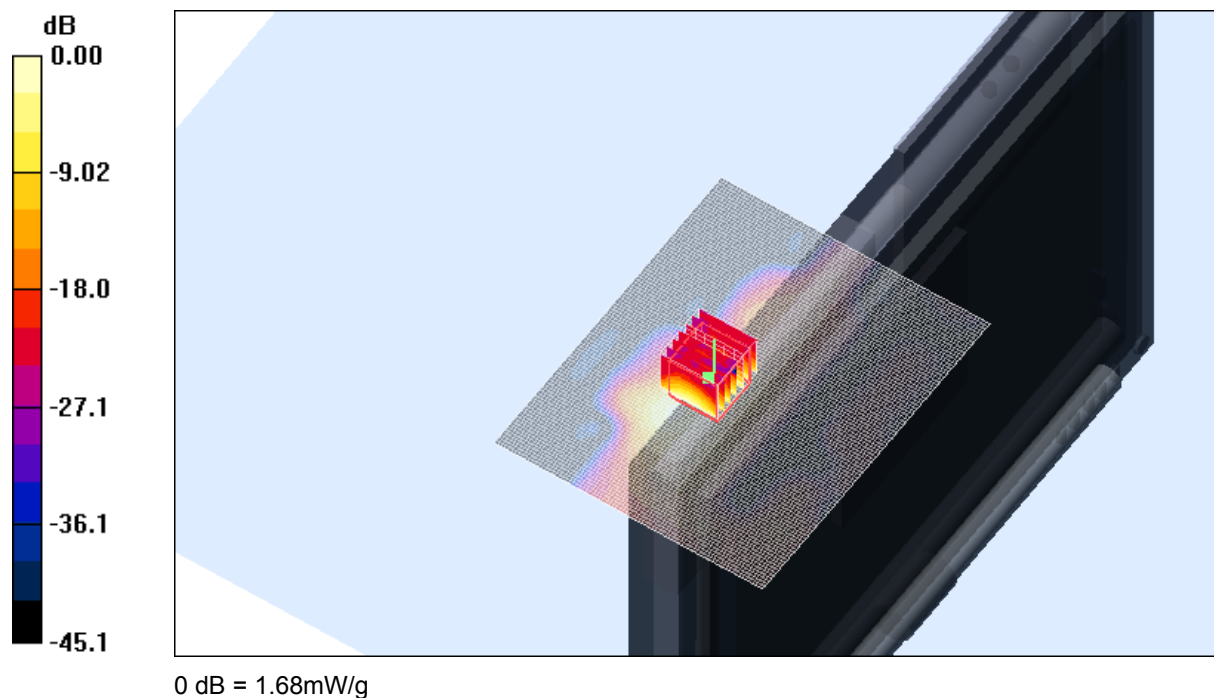
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.64 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 0.859 mW/g; SAR(10 g) = 0.290 mW/g

Maximum value of SAR (measured) = 1.68 mW/g



SAR MEASUREMENT PLOT 23

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Edge On OFDM 5.25 GHz versalius Antenna Main Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.71477$ mho/m, $\epsilon_r = 49.994$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 64 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.29 mW/g

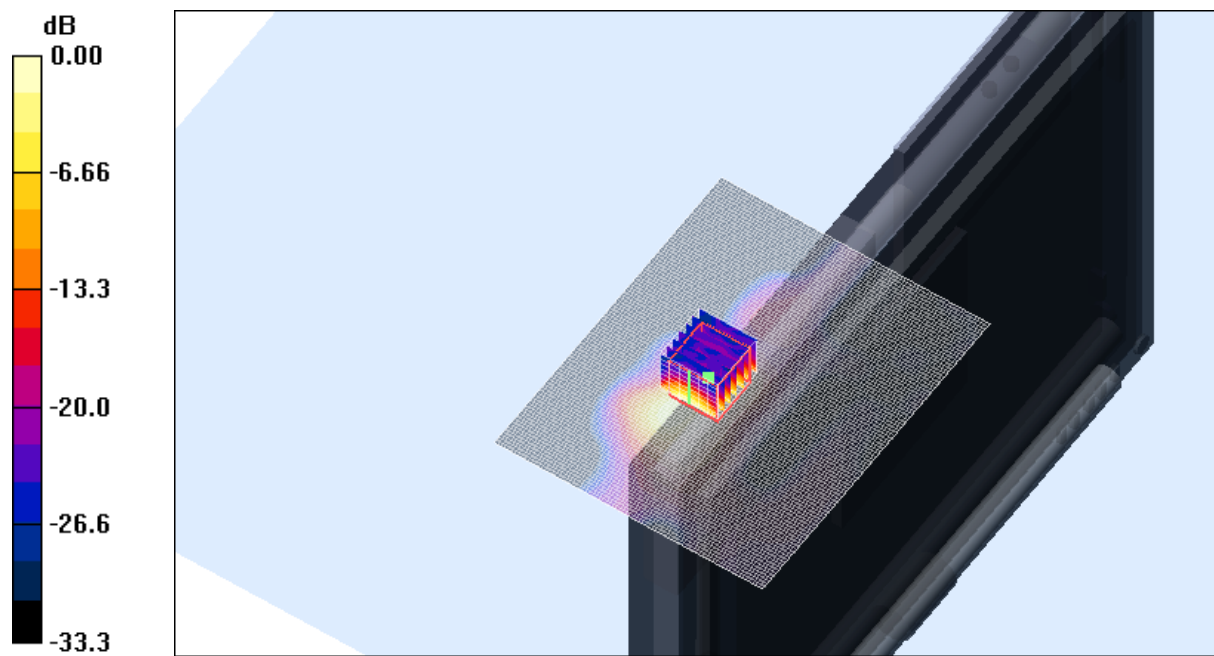
Channel 64 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.50 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 0.865 mW/g; SAR(10 g) = 0.295 mW/g

Maximum value of SAR (measured) = 1.74 mW/g



0 dB = 1.74mW/g

SAR MEASUREMENT PLOT 24

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Edge On OFDM 5.25 GHz versalius Antenna Aux Bluetooth Off 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.60158$ mho/m, $\epsilon_r = 50.1824$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 52 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.535 mW/g

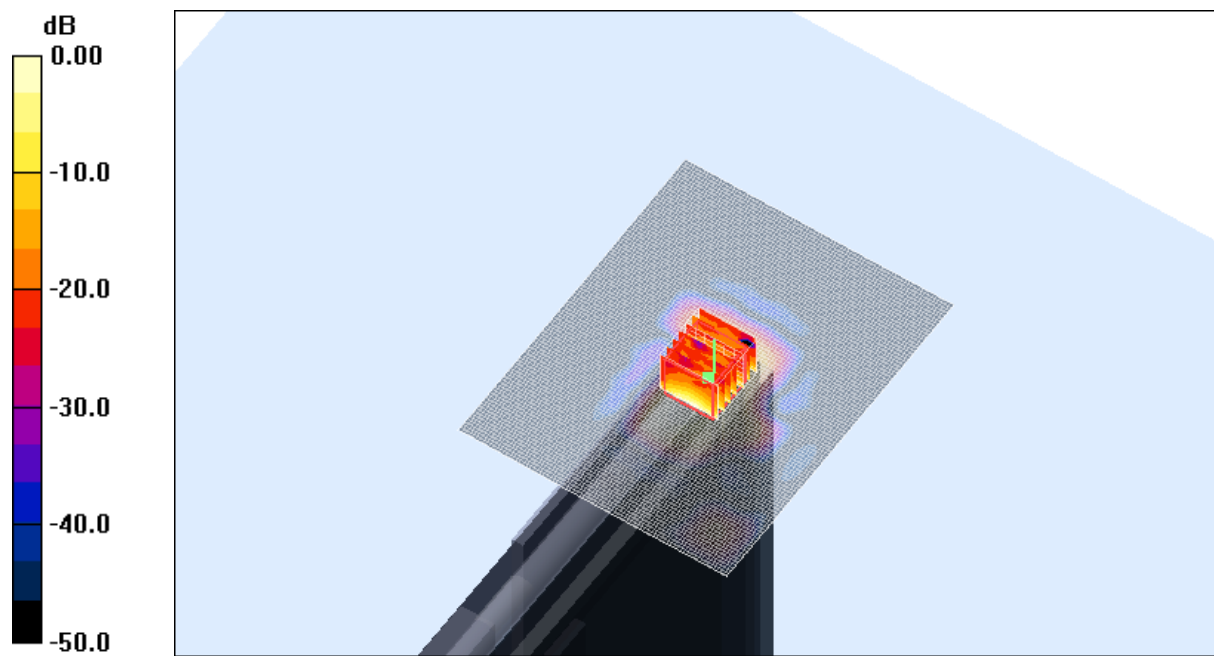
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.0 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.764 mW/g



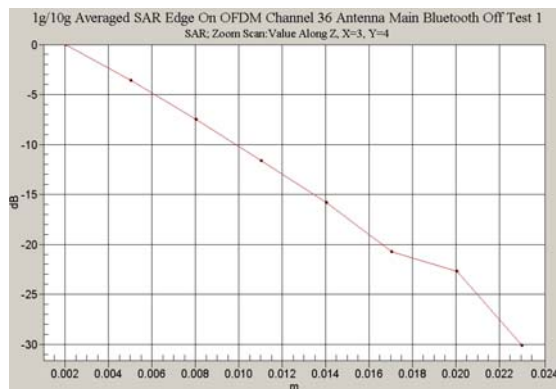
0 dB = 0.764mW/g

SAR MEASUREMENT PLOT 25

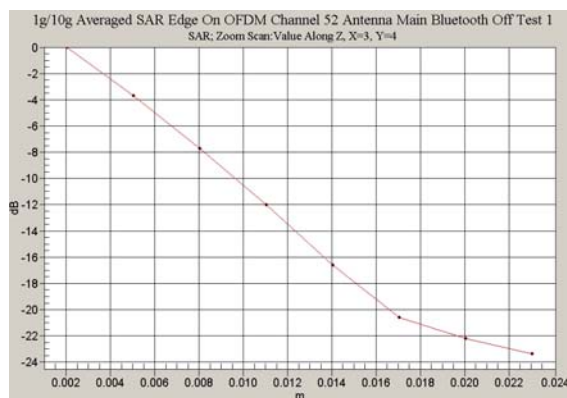
Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

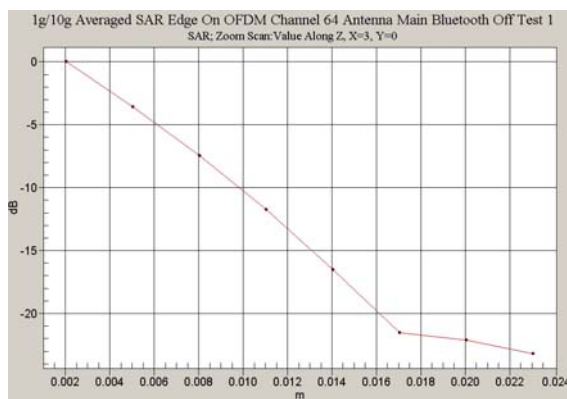
Z-Axis Graph for Plot 23



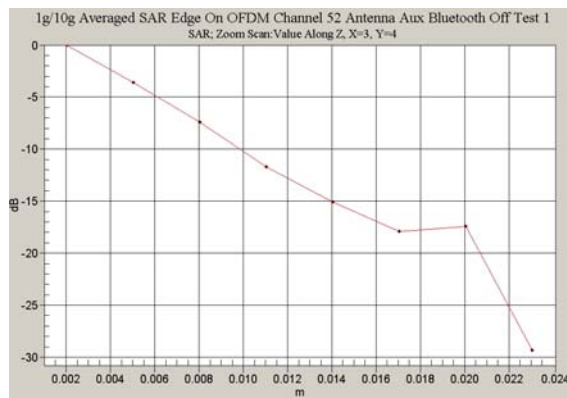
Z-Axis Graph for Plot 24



Z-Axis Graph for Plot 25



Z-Axis Graph for Plot 26



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Test Date: 3 March 2006

File Name: [Arm Held OFDM 5.25 GHz versalius Antenna Aux Bluetooth On 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.71477$ mho/m, $\epsilon_r = 49.994$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 64 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.14 mW/g

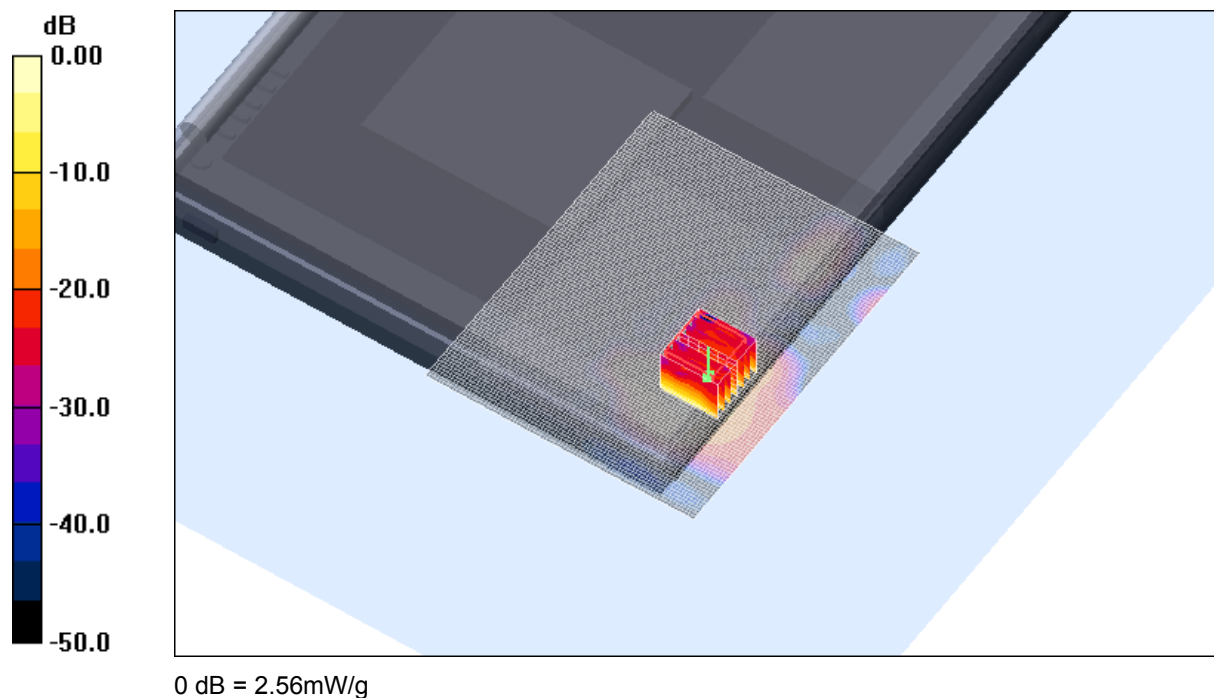
Channel 64 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.8 V/m; Power Drift = -0.277 dB

Peak SAR (extrapolated) = 4.70 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.333 mW/g

Maximum value of SAR (measured) = 2.56 mW/g



SAR MEASUREMENT PLOT 26

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Arm Held OFDM 5.25 GHz Versalium Antenna Main Bluetooth On 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.41532$ mho/m, $\epsilon_r = 50.4286$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 36 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.45 mW/g

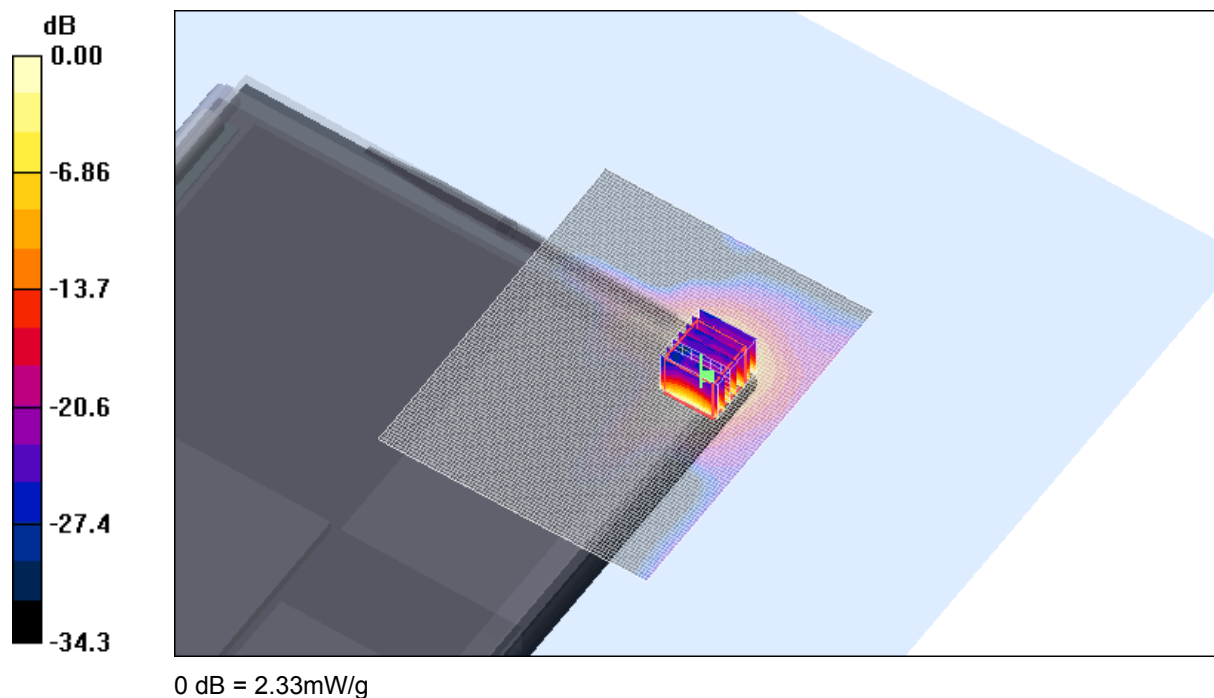
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.8 V/m; Power Drift = -0.348 dB

Peak SAR (extrapolated) = 4.24 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.365 mW/g

Maximum value of SAR (measured) = 2.33 mW/g



SAR MEASUREMENT PLOT 27

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

Test Date: 3 March 2006

File Name: [Edge On OFDM 5.25 GHz versalius Antenna Main Bluetooth On 03-03-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.41532$ mho/m, $\epsilon_r = 50.4286$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.36, 4.36, 4.36)

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

Channel 36 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.08 mW/g

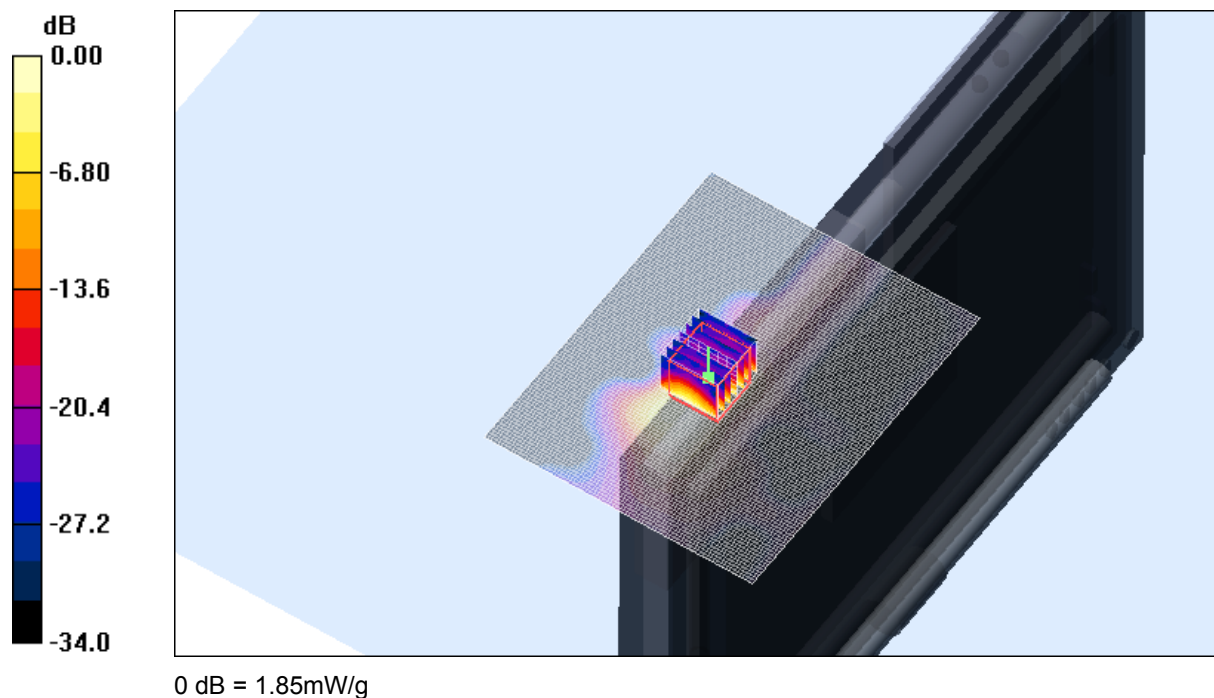
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.6 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 1.85 mW/g

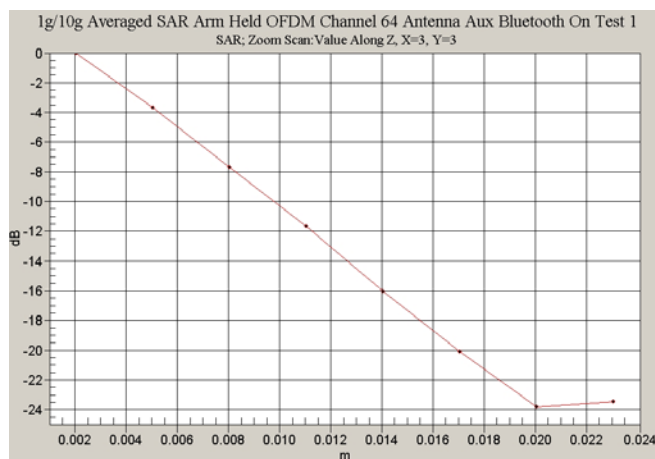


SAR MEASUREMENT PLOT 28

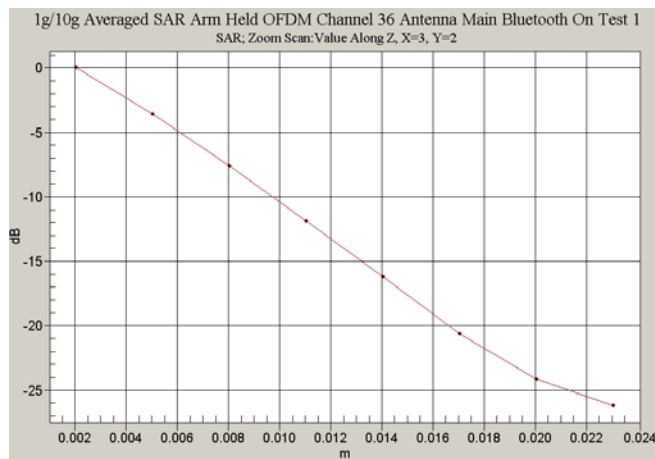
Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

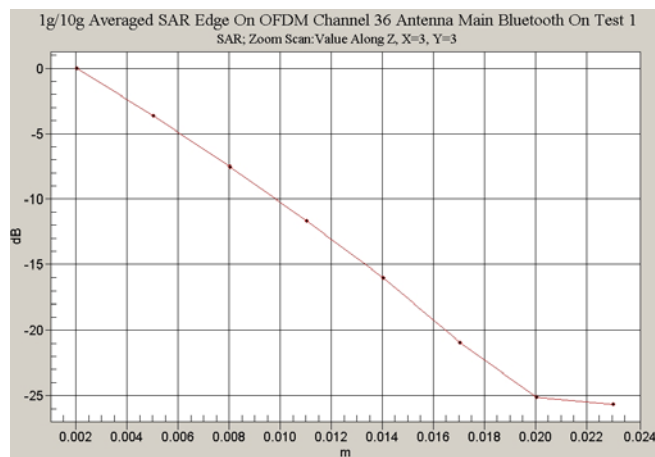
Z-Axis Graph for Plot 27



Z-Axis Graph for Plot 28



Z-Axis Graph for Plot 29



Test Date: 1 March 2006

File Name: [Validation 5800MHz \(DAE 442 Probe EX3DV4\) 01-03-06.da4](#)

DUT: Dipole 5200_5800 MHz; Type: D5GHzV2; Serial: 1008

* Communication System: CW 5800 MHz; Frequency: 5800 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.16152$ mho/m, $\epsilon_r = 33.6301$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.04, 4.04, 4.04)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 44.4 mW/g

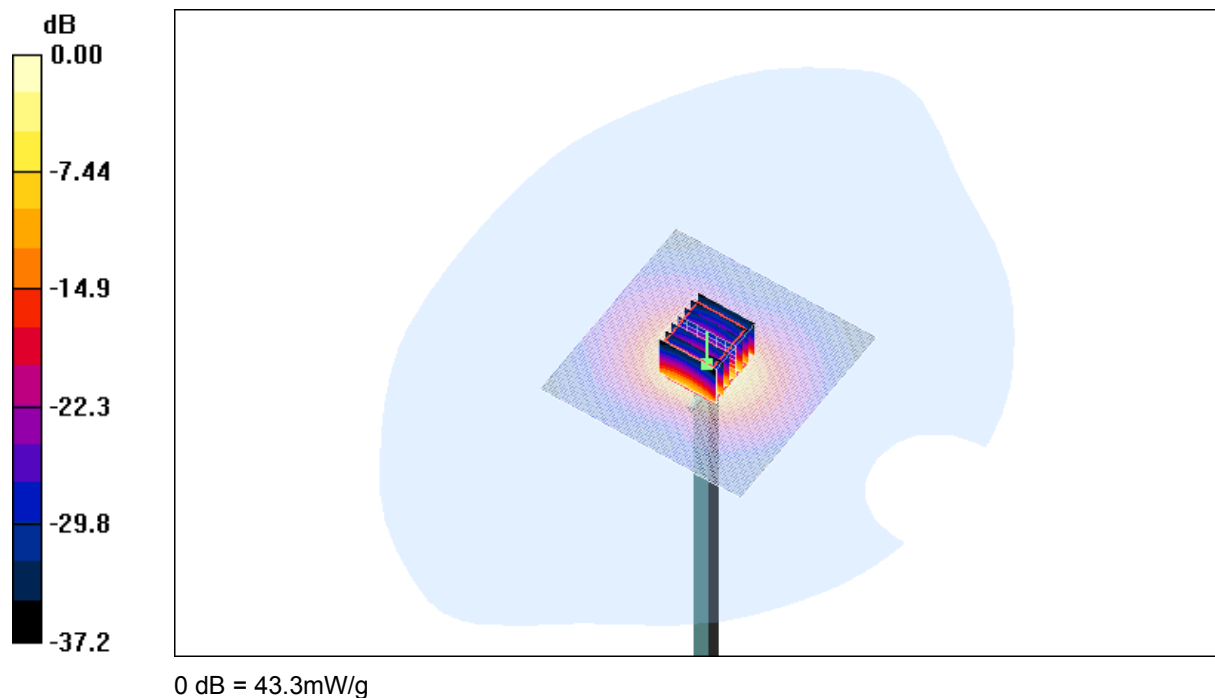
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 98.4 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 84.8 W/kg

SAR(1 g) = 20.8 mW/g; SAR(10 g) = 5.88 mW/g

Maximum value of SAR (measured) = 43.3 mW/g



SAR MEASUREMENT PLOT 29

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
56.0 %

Test Date: 2 March 2006

File Name: [Validation 5800MHz \(DAE 442 Probe EX3DV4\) 02-03-06.da4](#)

DUT: Dipole 5200_5800 MHz; Type: D5GHzV2; Serial: 1008

* Communication System: CW 5800 MHz; Frequency: 5800 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.18324$ mho/m, $\epsilon_r = 34.2194$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.04, 4.04, 4.04)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 43.2 mW/g

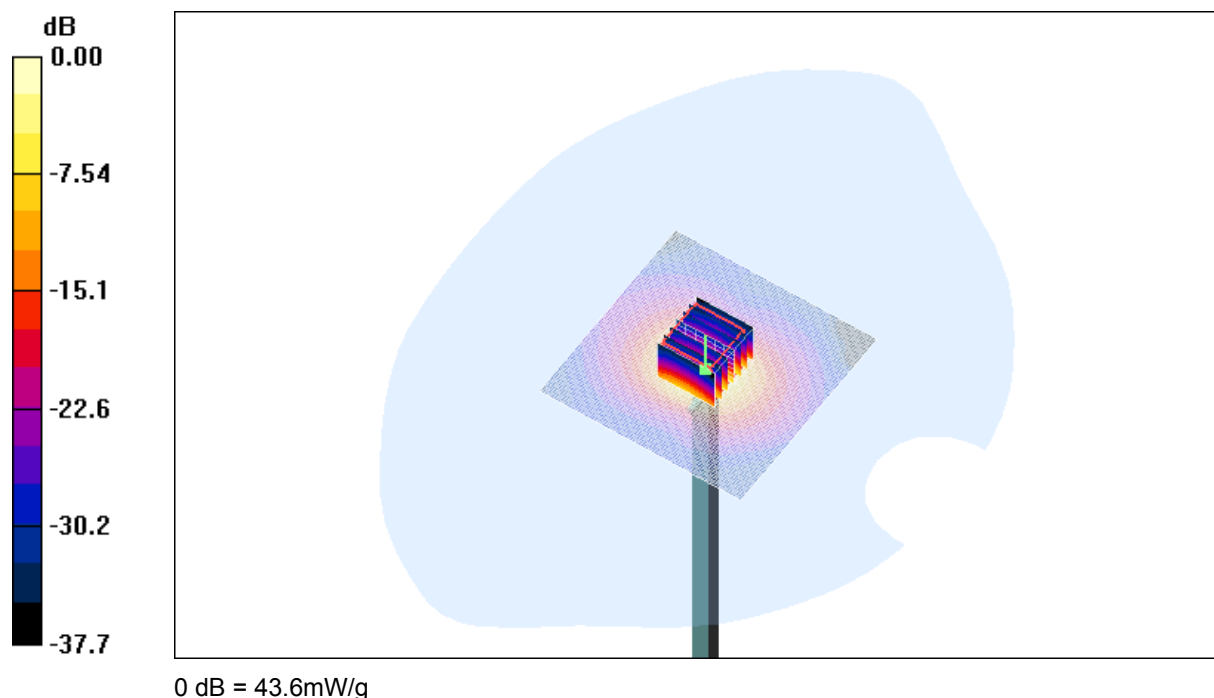
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 97.5 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 83.1 W/kg

SAR(1 g) = 20.4 mW/g; SAR(10 g) = 5.81 mW/g

Maximum value of SAR (measured) = 43.6 mW/g



SAR MEASUREMENT PLOT 30

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.9 Degrees Celsius
58.0 %

Test Date: 3 March 2006

File Name: [Validation 5200MHz \(DAE 442 Probe EX3DV4\) 03-03-06.da4](#)

DUT: Dipole 5200_5800 MHz; Type: D5GHzV2; Serial: 1008

* Communication System: CW 5200 MHz; Frequency: 5200 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 4.77192$ mho/m, $\epsilon_r = 36.7924$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(4.46, 4.46, 4.46)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test 2/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 40.7 mW/g

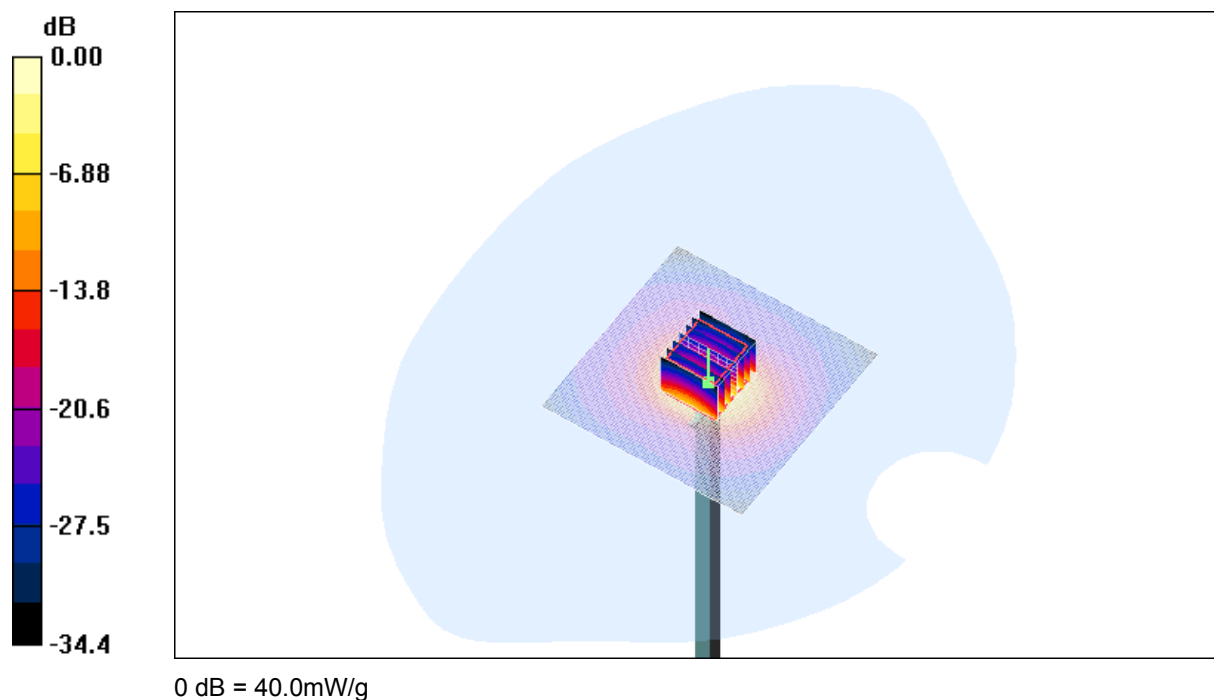
Channel 1 Test 2/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 98.9 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 70.6 W/kg

SAR(1 g) = 20 mW/g; SAR(10 g) = 5.77 mW/g

Maximum value of SAR (measured) = 40.0 mW/g

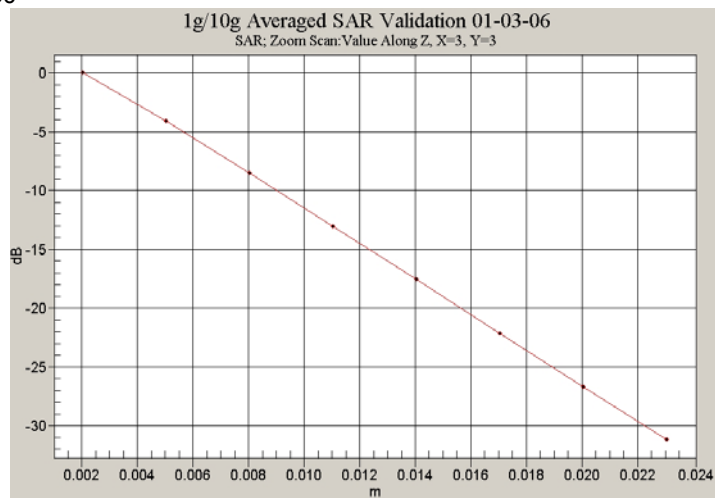


SAR MEASUREMENT PLOT 31

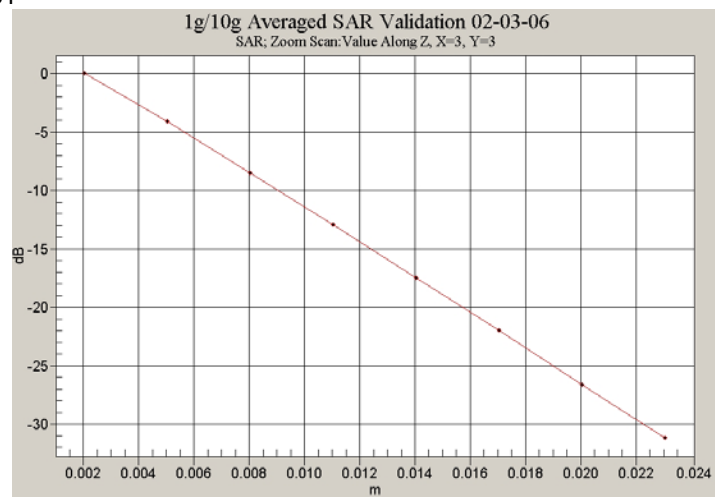
Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.8 Degrees Celsius
57.0 %

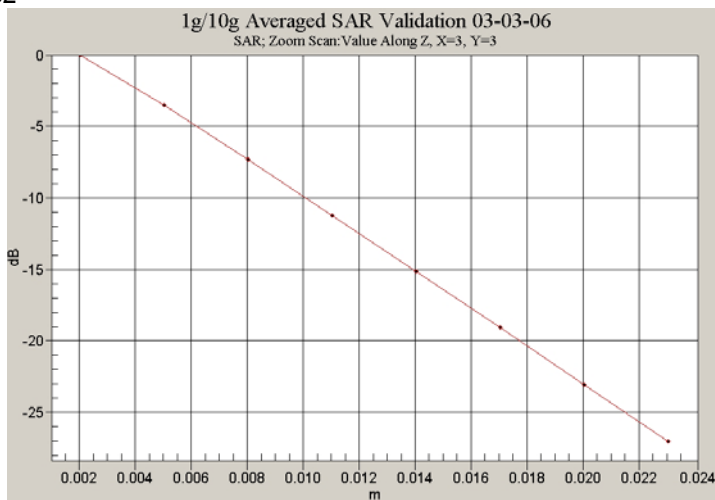
Z-Axis Graph for Plot 30



Z-Axis Graph for Plot 31



Z-Axis Graph for Plot 32



APPENDIX C

SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

- | | |
|--|----------|
| 1. 5GHz E-Field Probe Calibration Sheet | 10 Pages |
| 2. 5800/5200MHz Dipole Calibration Sheet | 7 pages |