

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna B Bluetooth Off 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.88135$ mho/m, $\epsilon_r = 51.8829$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 1 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.71 mW/g

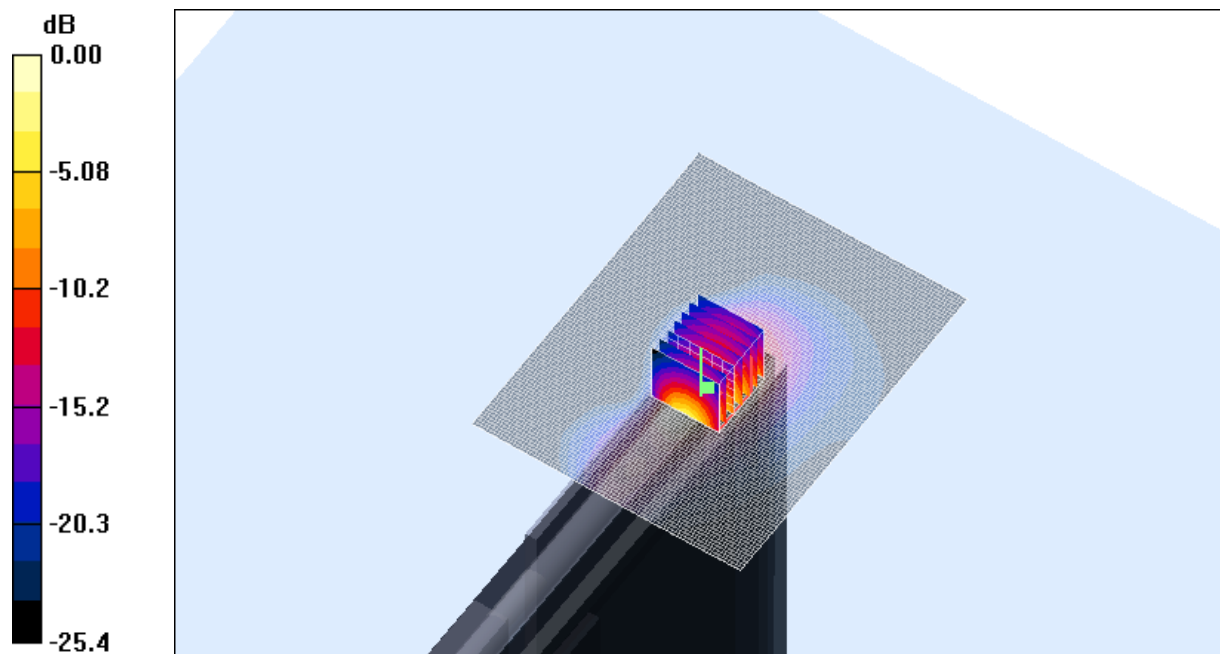
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.4 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 1.53 mW/g; SAR(10 g) = 0.619 mW/g

Maximum value of SAR (measured) = 1.81 mW/g



0 dB = 1.81mW/g

SAR MEASUREMENT PLOT 13

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

This document shall not be copied or reproduced, except in full without the written permission of the Technical Director, EMC Technologies Pty. Ltd.

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna B Bluetooth Off 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.92142$ mho/m, $\epsilon_r = 51.7615$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 6 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.956 mW/g

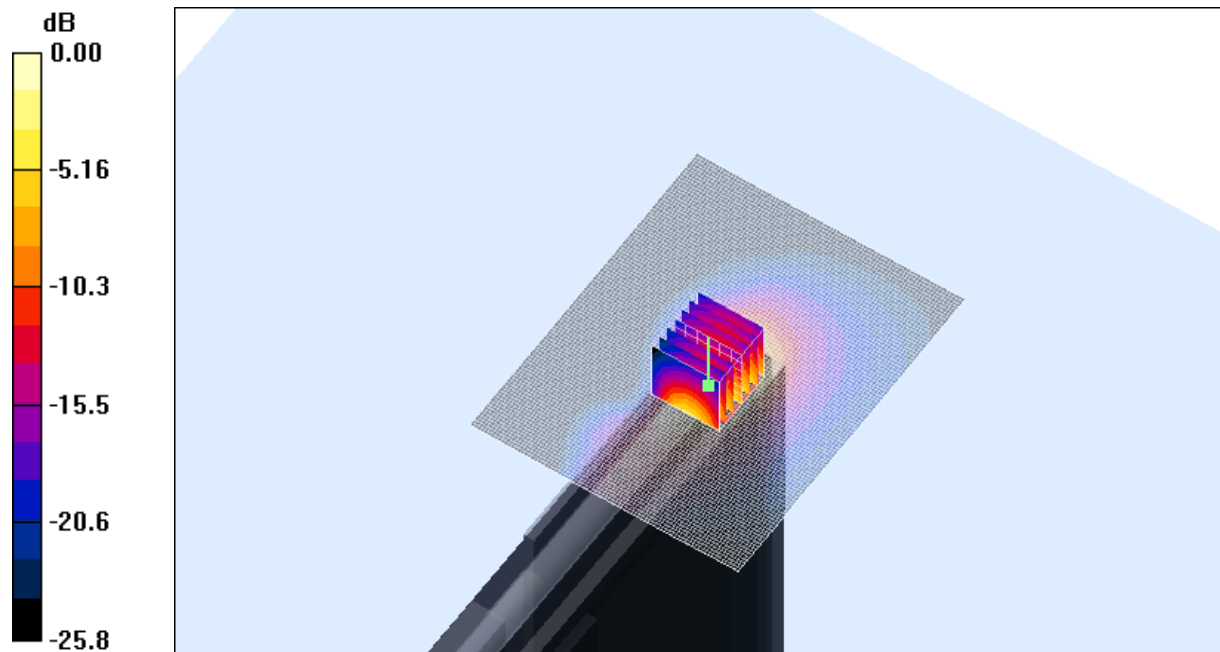
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.367 mW/g

Maximum value of SAR (measured) = 0.968 mW/g



0 dB = 0.968mW/g

SAR MEASUREMENT PLOT 14

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna B Bluetooth Off 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.95906$ mho/m, $\epsilon_r = 51.6165$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 11 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.961 mW/g

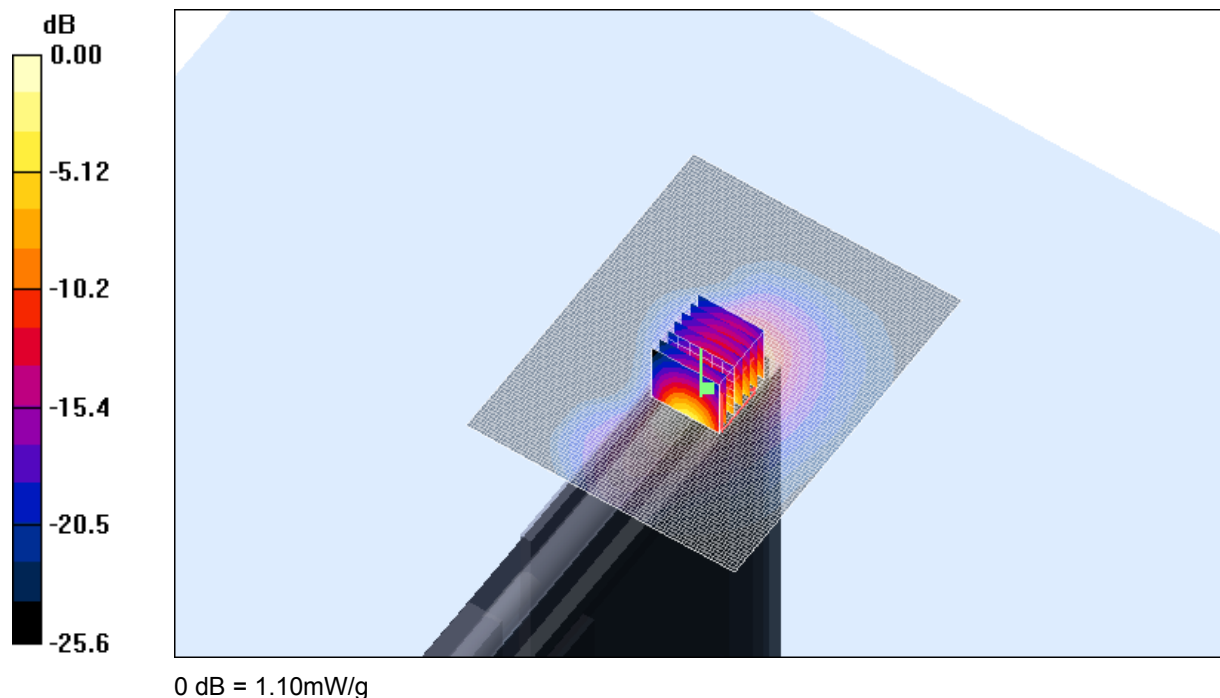
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = -0.186 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.403 mW/g

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

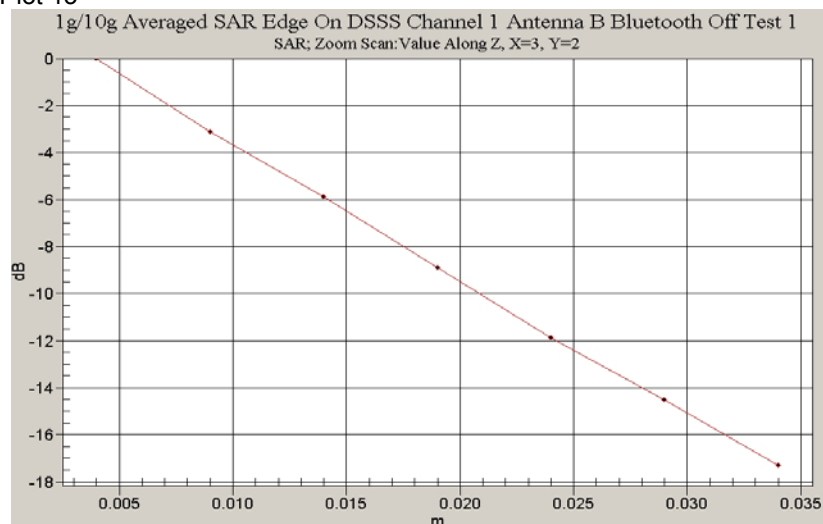


SAR MEASUREMENT PLOT 15

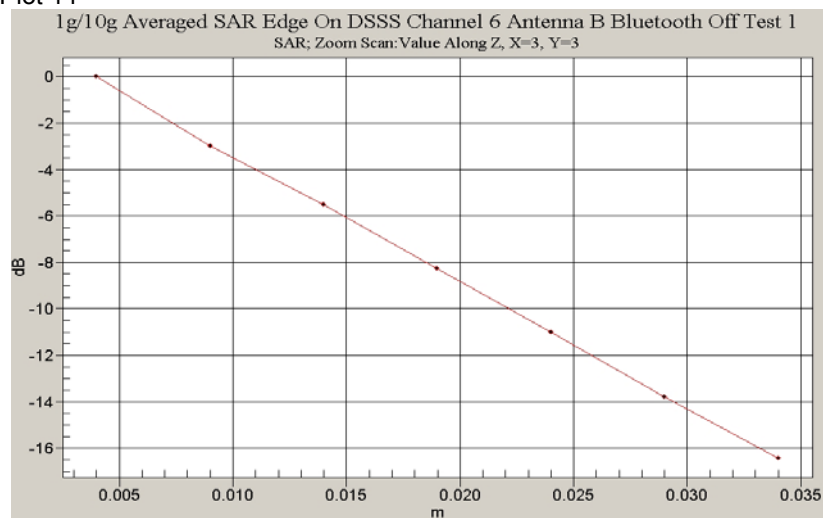
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

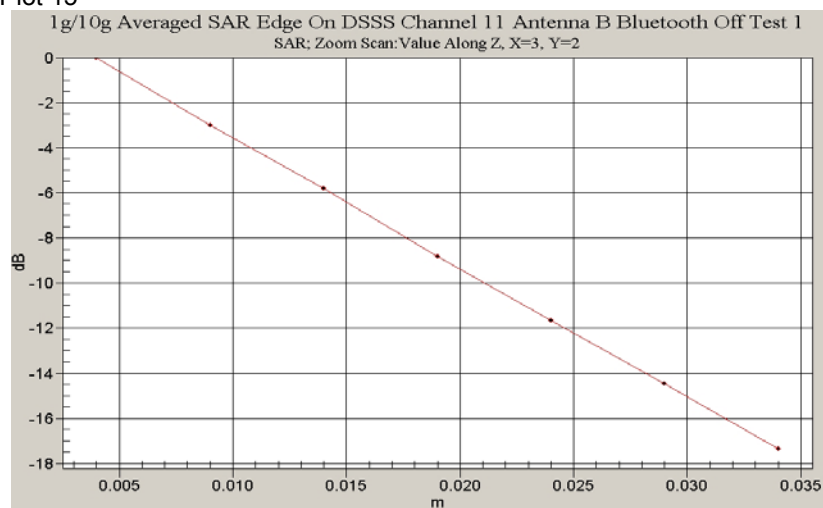
Z-Axis Graph for Plot 13



Z-Axis Graph for Plot 14



Z-Axis Graph for Plot 15



This document shall not be copied or reproduced, except in full without the written permission of the Technical Director , EMC Technologies Pty. Ltd.

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalium Antenna A Bluetooth On 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.95143$ mho/m, $\epsilon_r = 51.6131$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 11 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.27 mW/g

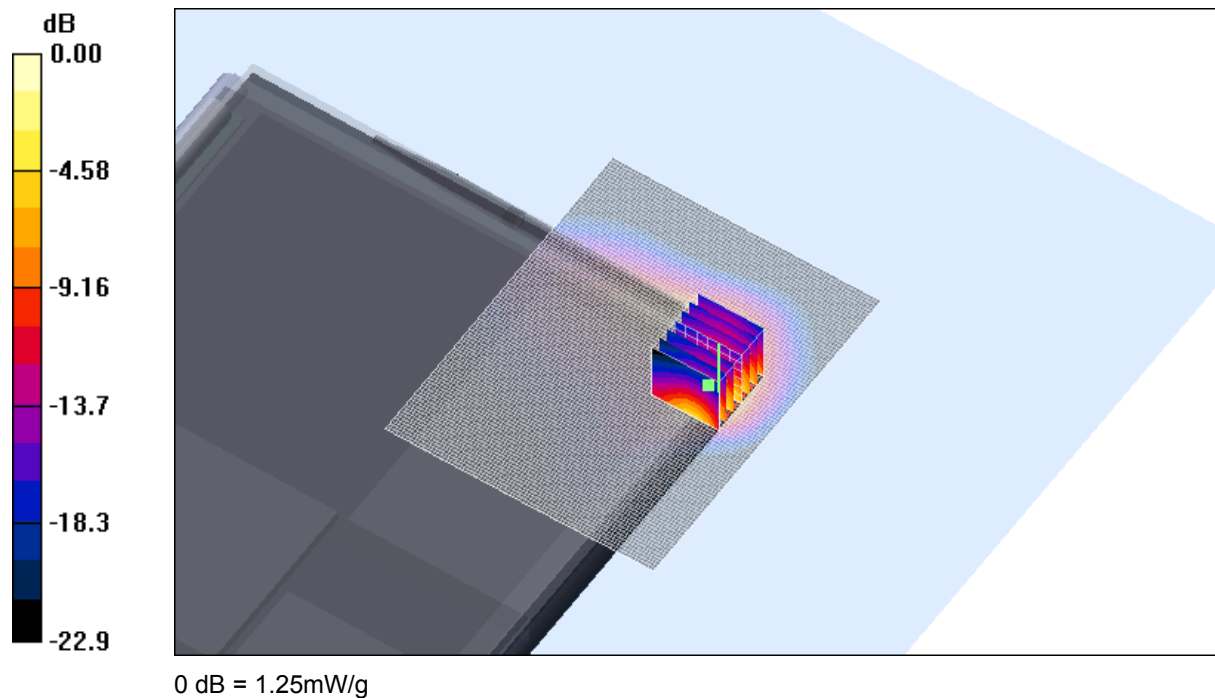
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.7 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.498 mW/g

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



SAR MEASUREMENT PLOT 16

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalium Antenna B Bluetooth On 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.86728$ mho/m, $\epsilon_r = 51.8863$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 1 Test/Area Scan 2 (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.61 mW/g

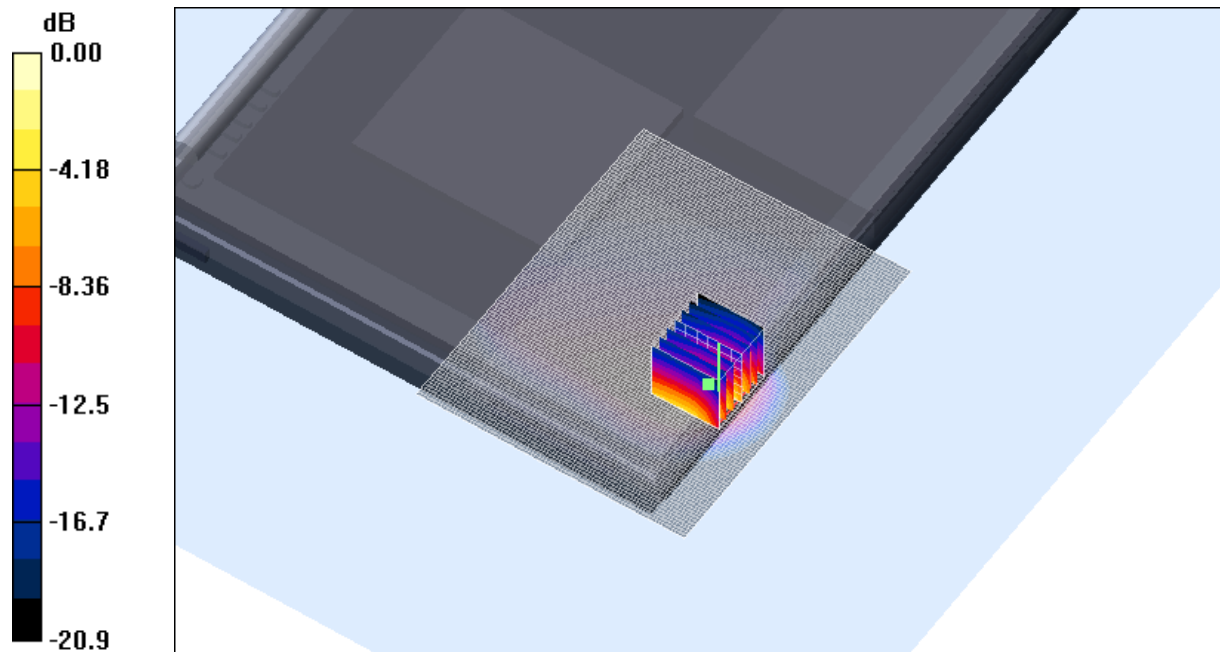
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.7 V/m; Power Drift = -0.249 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.586 mW/g

Maximum value of SAR (measured) = 1.46 mW/g



SAR MEASUREMENT PLOT 17

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna A Bluetooth On 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.95906$ mho/m, $\epsilon_r = 51.6165$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 11 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.42 mW/g

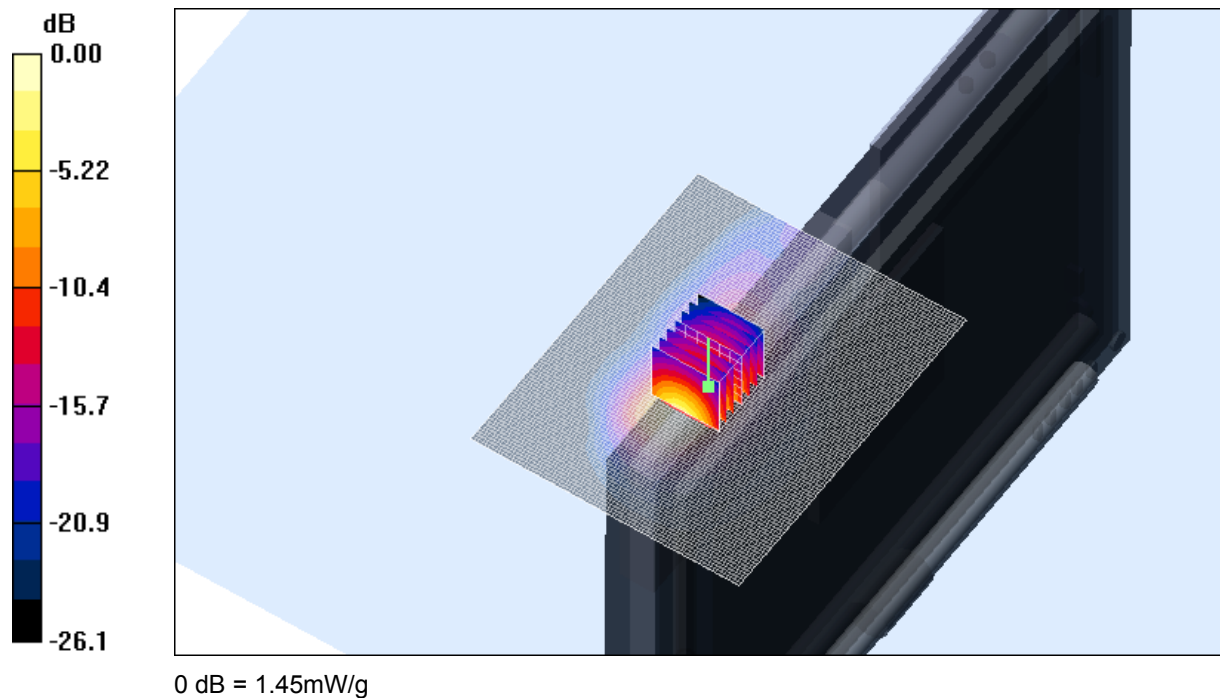
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.6 V/m; Power Drift = 0.211 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.510 mW/g

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



SAR MEASUREMENT PLOT 18

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna B Bluetooth On 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.88135$ mho/m, $\epsilon_r = 51.8829$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 1 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

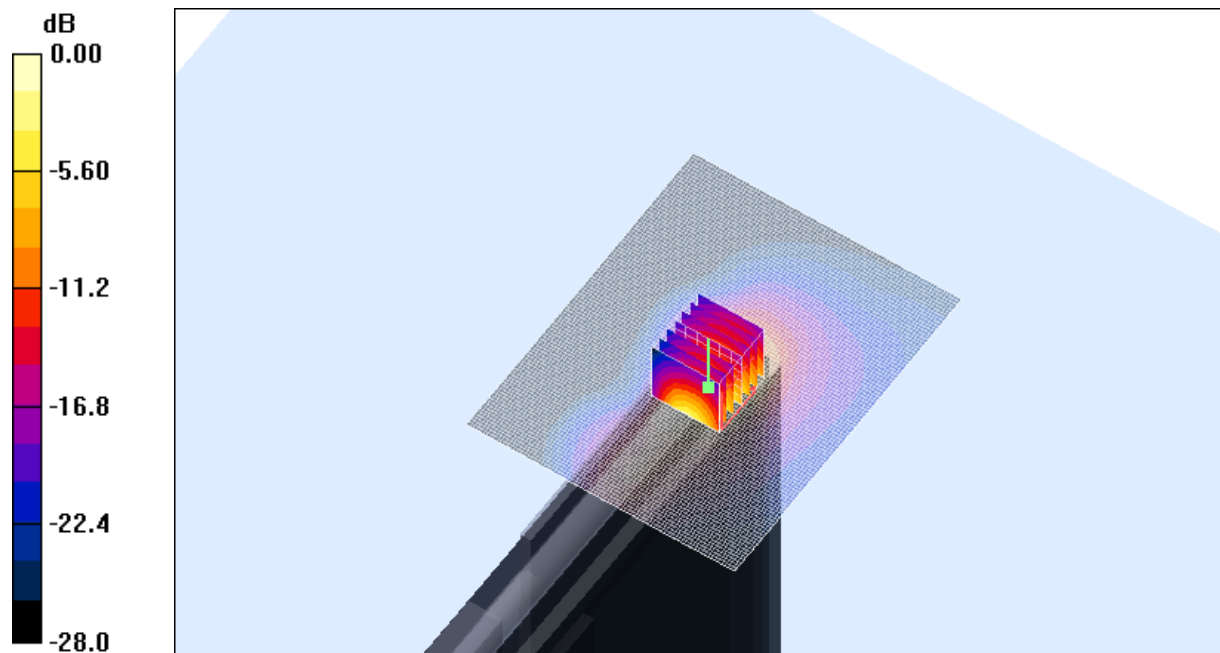
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.459 mW/g

Maximum value of SAR (measured) = 1.26 mW/g



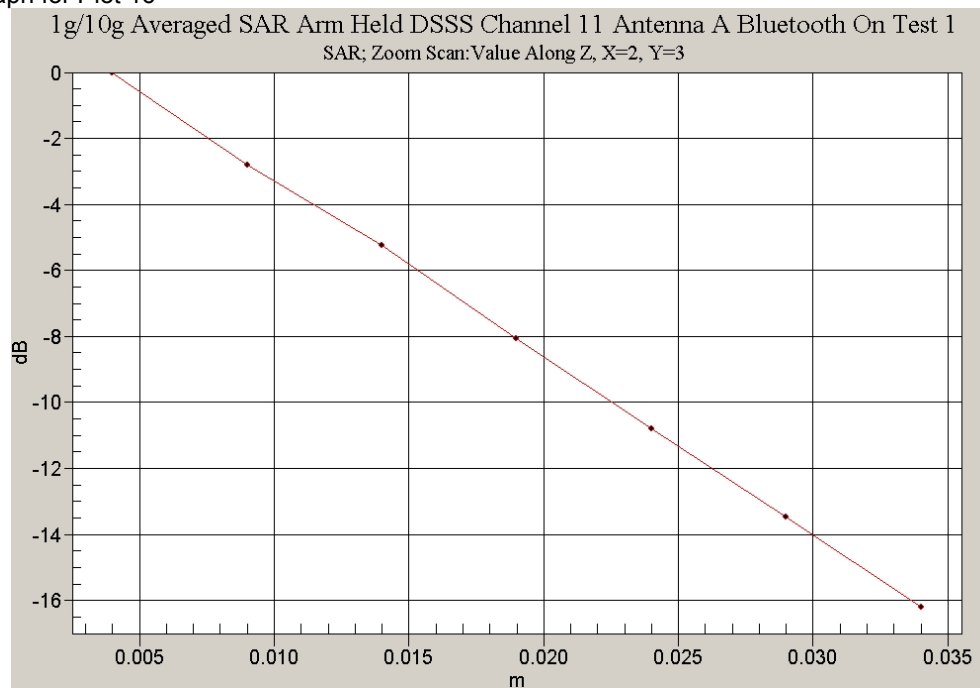
0 dB = 1.26mW/g

SAR MEASUREMENT PLOT 19

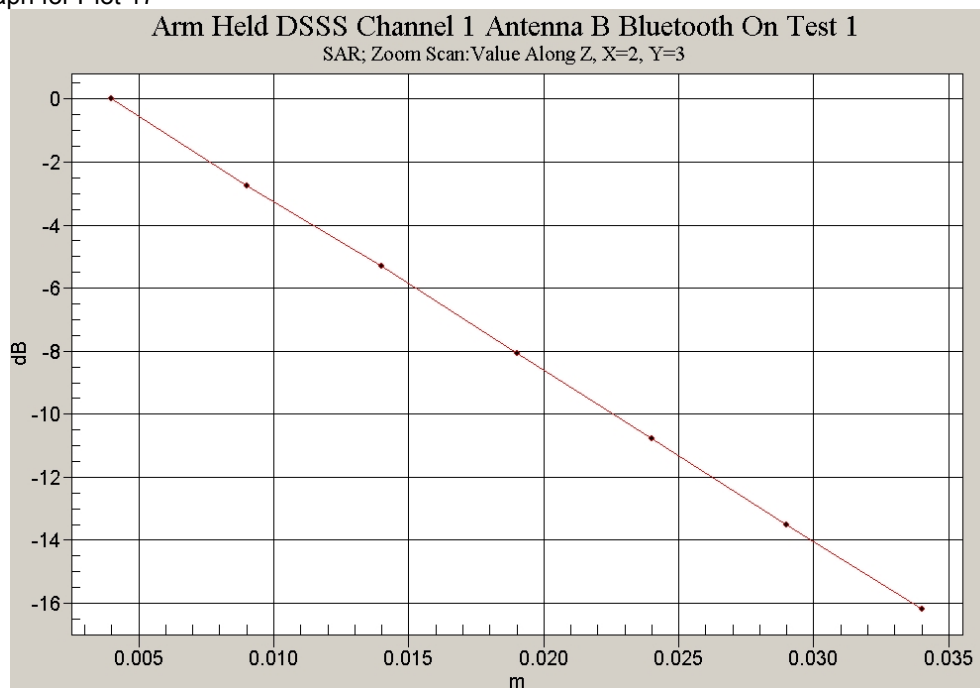
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

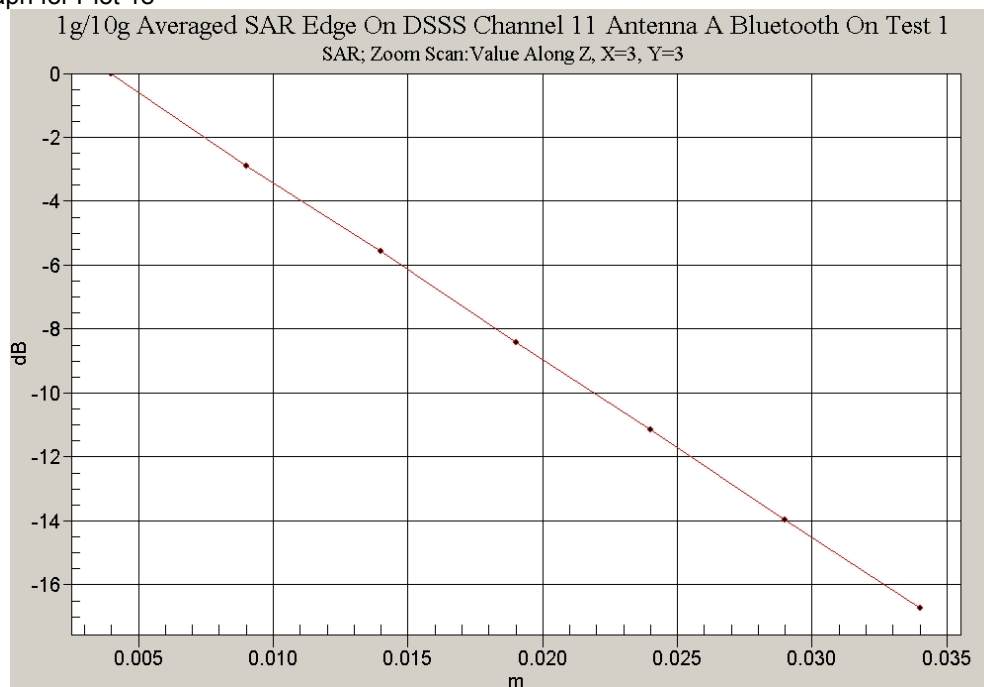
Z-Axis Graph for Plot 16



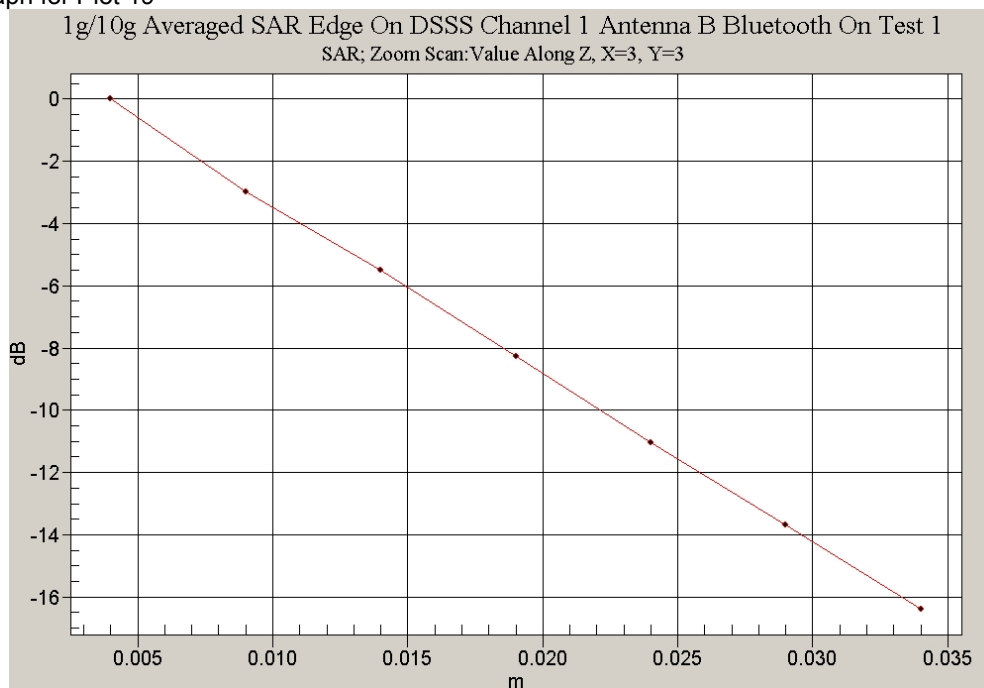
Z-Axis Graph for Plot 17



Z-Axis Graph for Plot 18



Z-Axis Graph for Plot 19



Test Date: 21 March 2006

File Name: [Arm Held OFDM 2450 MHz Versalium Antenna A Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 6 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

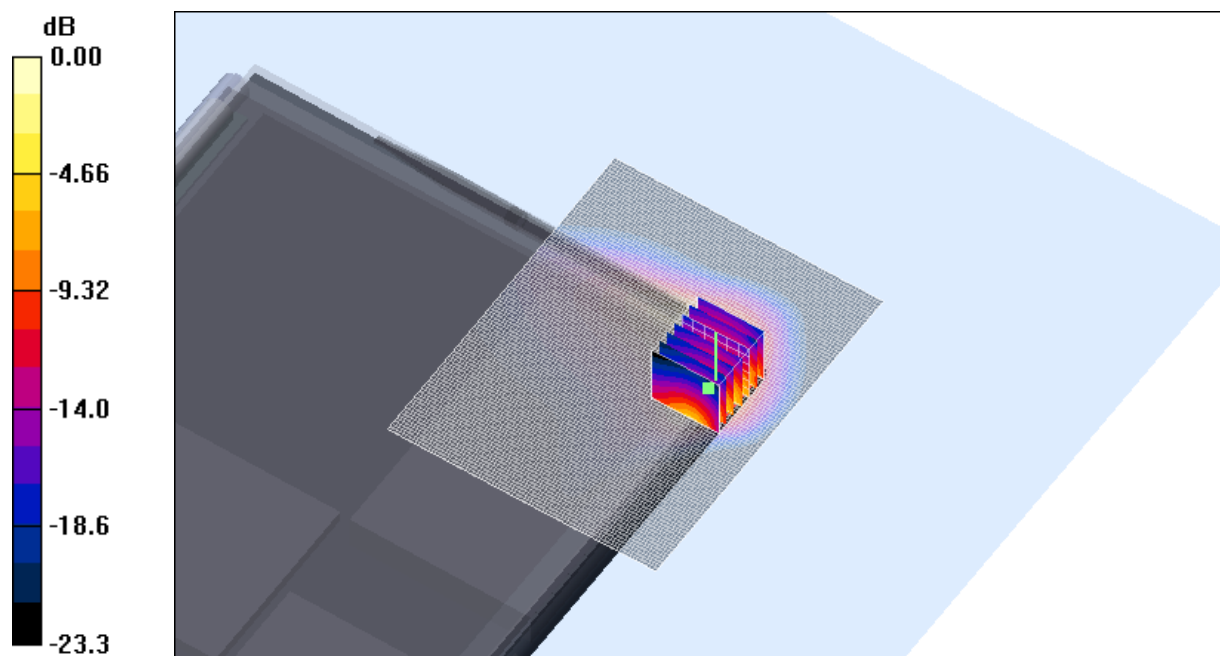
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.8 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.840 mW/g; SAR(10 g) = 0.374 mW/g

Maximum value of SAR (measured) = 0.949 mW/g



SAR MEASUREMENT PLOT 20

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held OFDM 2450 MHz Versalium Antenna B Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

Channel 6 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.31 mW/g

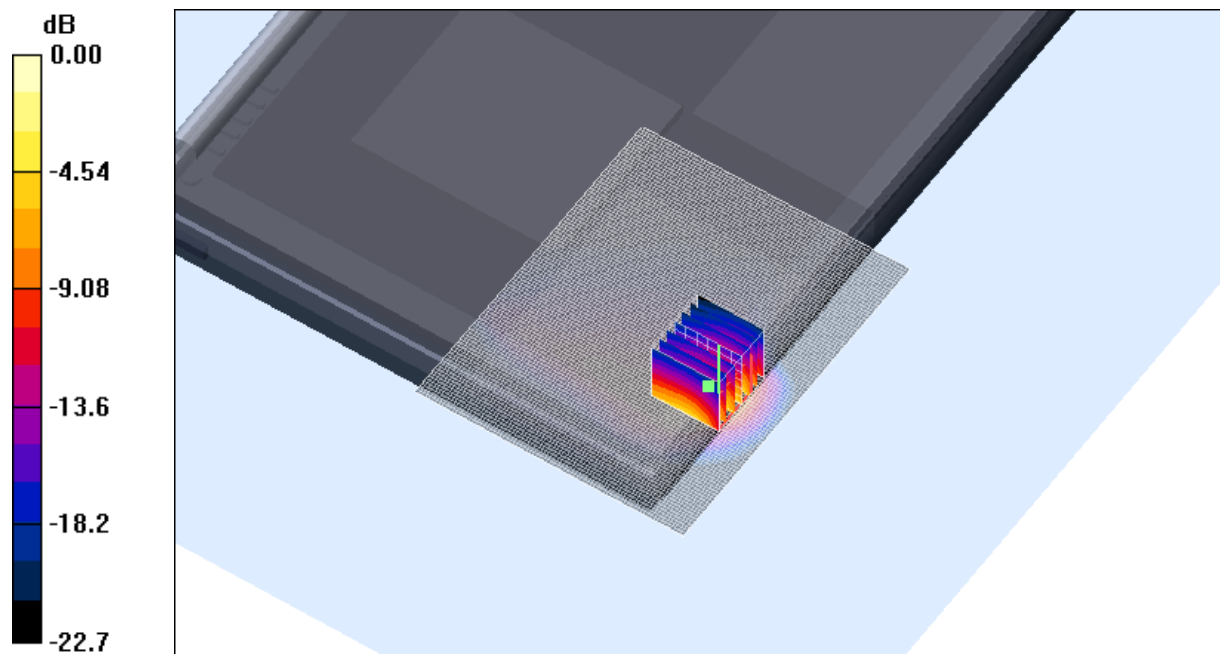
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = 0.277 dB

Peak SAR (extrapolated) = 2.41 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.447 mW/g

Maximum value of SAR (measured) = 1.19 mW/g



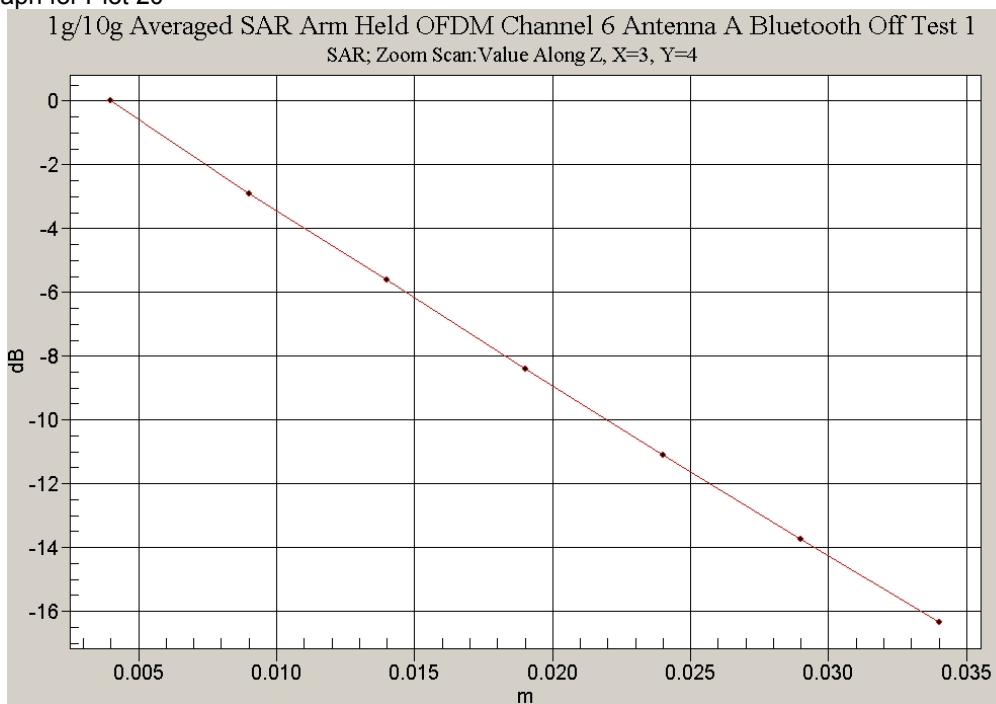
0 dB = 1.19mW/g

SAR MEASUREMENT PLOT 21

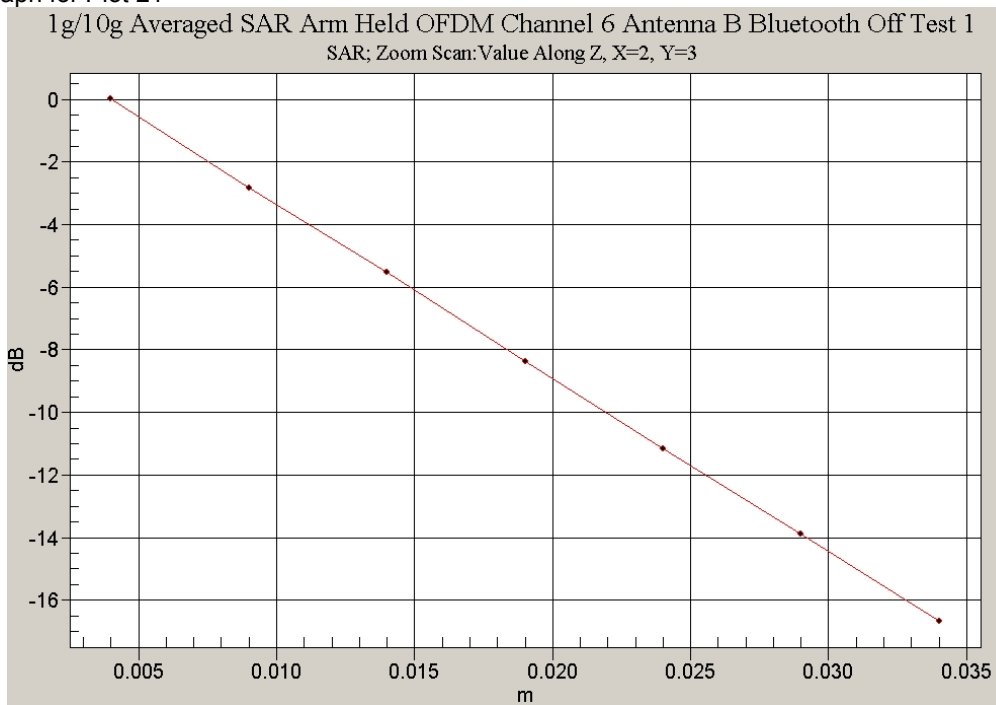
Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Z-Axis Graph for Plot 20



Z-Axis Graph for Plot 21



Test Date: 20 March 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 20-03-06.da4](#)

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

* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.76219$ mho/m, $\epsilon_r = 39.1302$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.57, 4.57, 4.57)

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

Channel 1 Test/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 19.3 mW/g

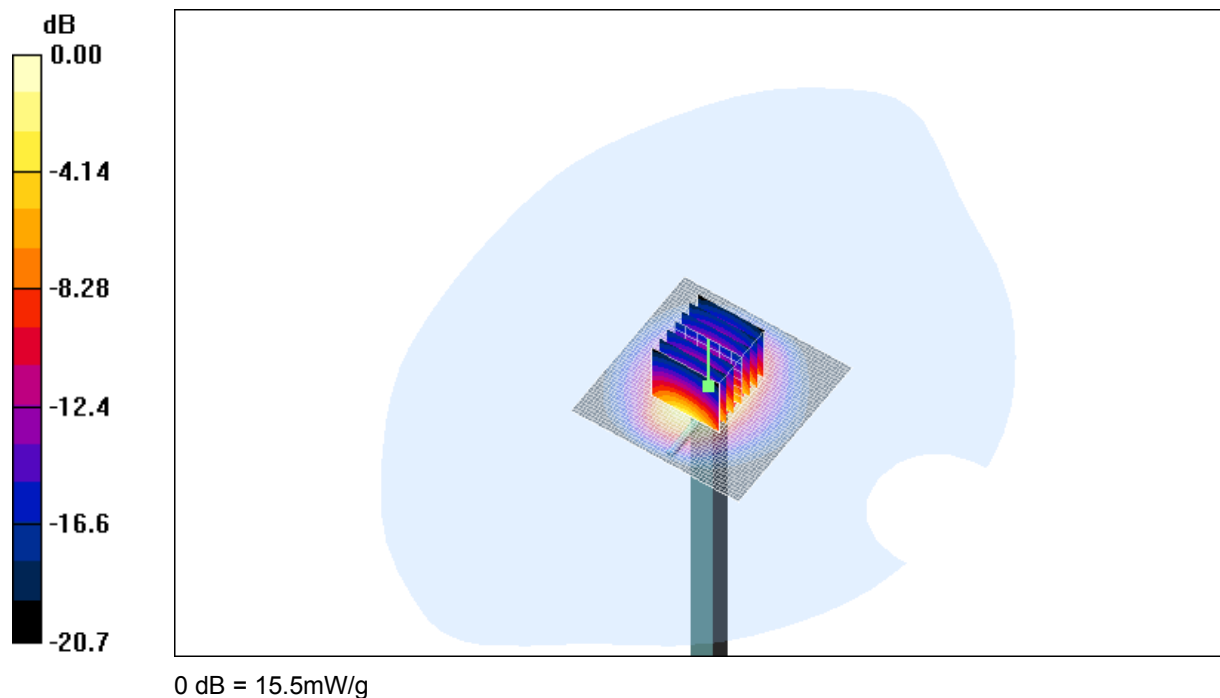
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.7 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13.6 mW/g; SAR(10 g) = 6.51 mW/g

Maximum value of SAR (measured) = 15.5 mW/g



SAR MEASUREMENT PLOT 22

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

Test Date: 21 March 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 21-03-06.da4](#)

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

* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.75621$ mho/m, $\epsilon_r = 38.9157$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.57, 4.57, 4.57)

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

Channel 1 Test/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 18.5 mW/g

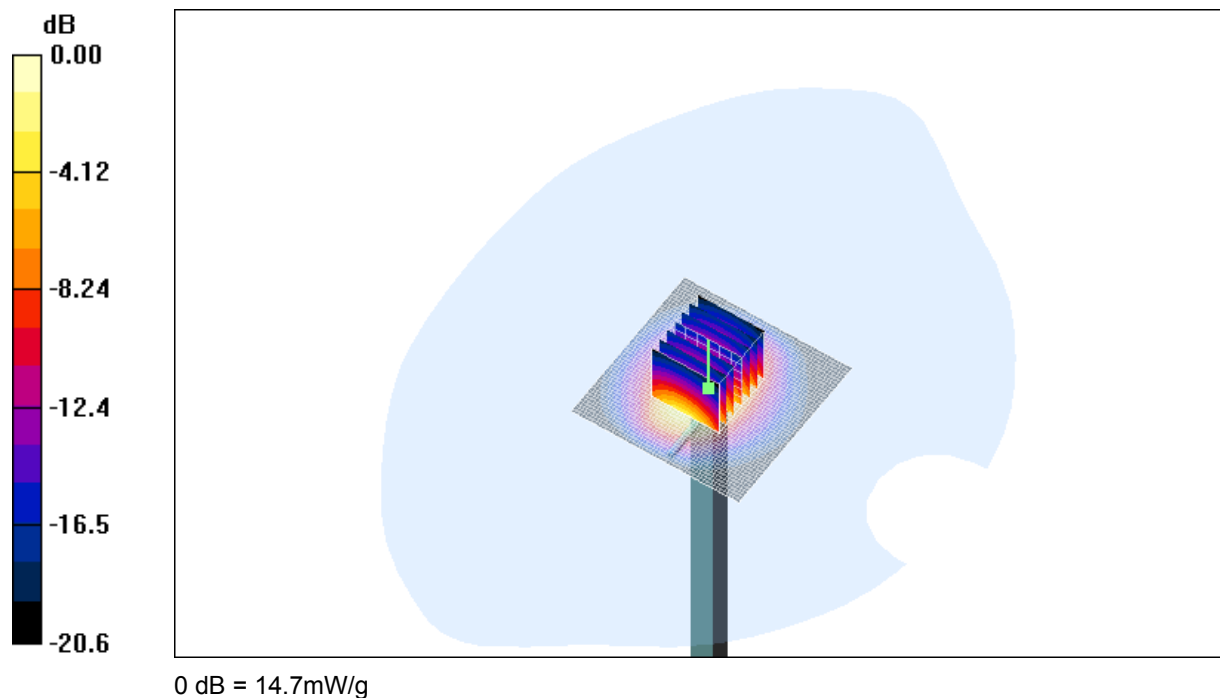
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.6 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.29 mW/g

Maximum value of SAR (measured) = 14.7 mW/g

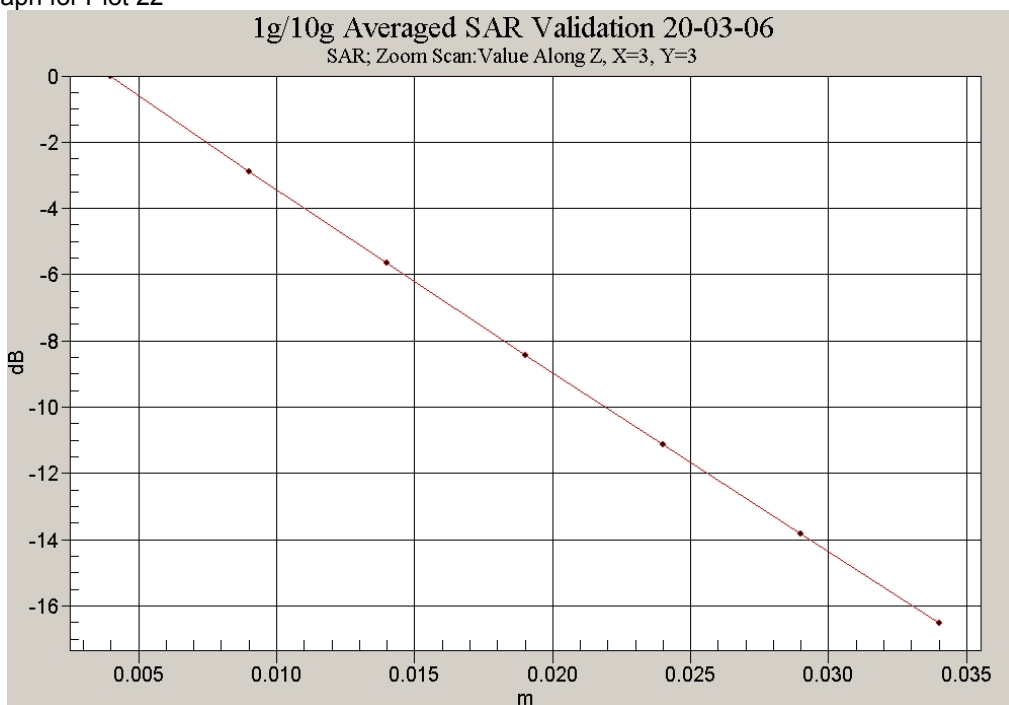


SAR MEASUREMENT PLOT 23

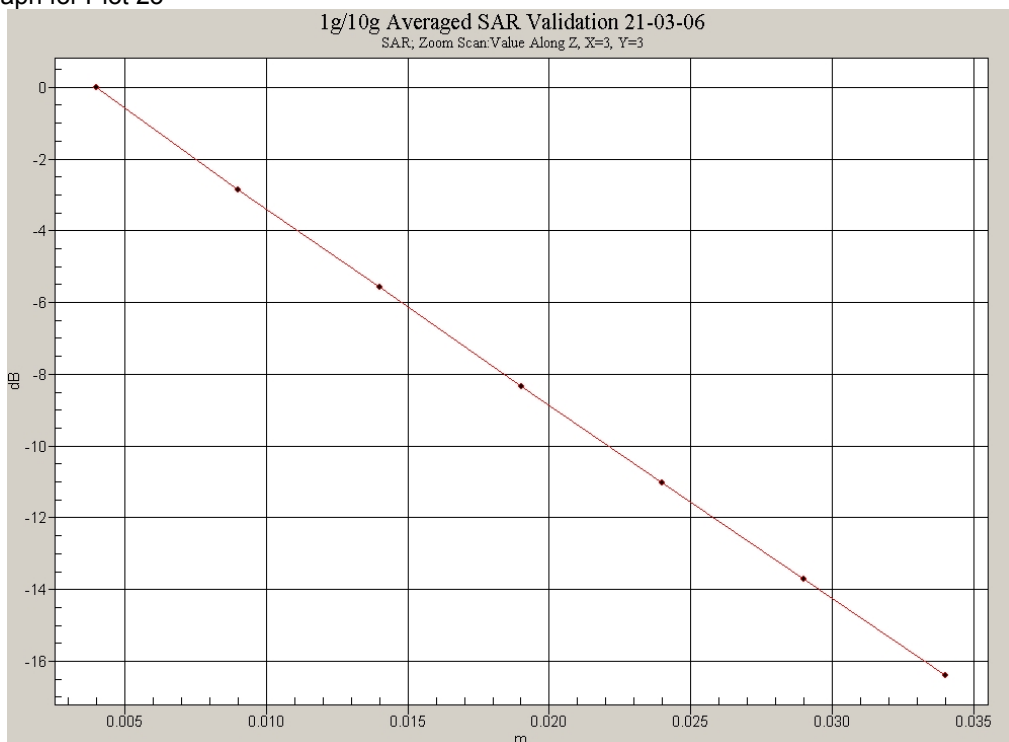
Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Z-Axis Graph for Plot 22



Z-Axis Graph for Plot 23



APPENDIX C

SAR testing equipment calibration certificate Attachments

Calibration Certificate Attachments

- | | |
|---|---------|
| 1. 2.5GHz E-Field Probe Calibration Sheet | 9 Pages |
| 2. 2.5GHz Dipole Calibration Sheet | 5 pages |