

Test Date: 21 August 2006

File Name: [Edge On OFDM 5.6 GHz Antenna Main Bluetooth Off 21-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

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

* Medium parameters used: $\sigma = 5.99305$ mho/m, $\epsilon_r = 45.6397$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

Channel 149 Test 2/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.23 mW/g

Channel 149 Test 2/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm,

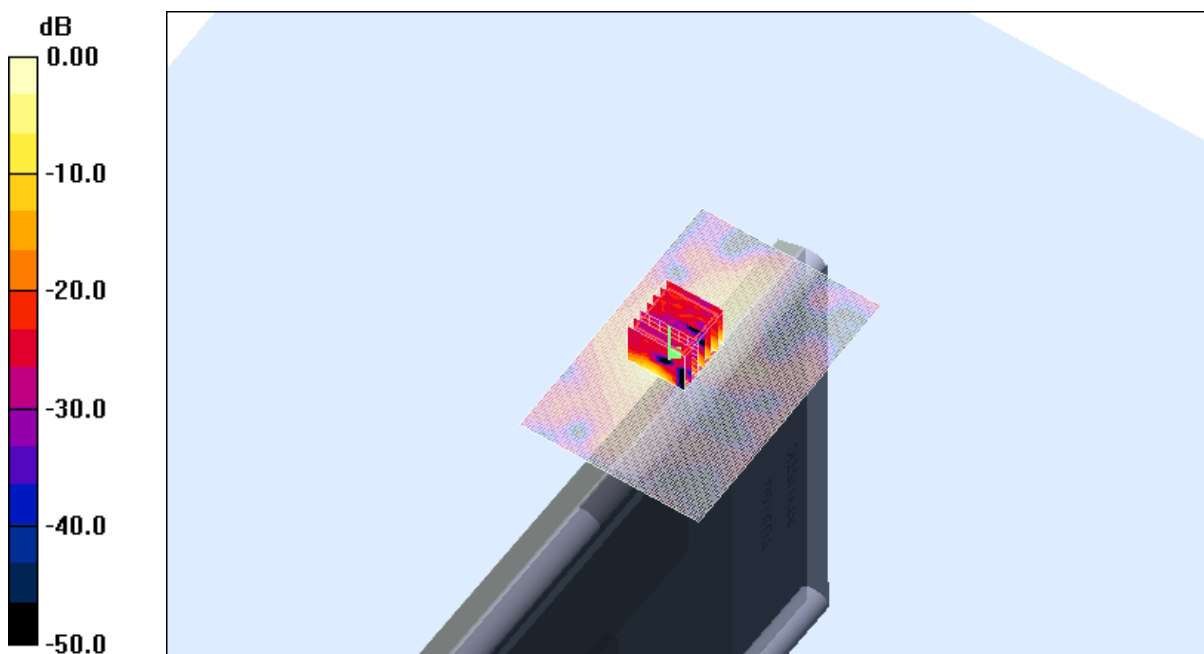
dy=4.3mm, dz=3mm

Reference Value = 5.30 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 5.59 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.241 mW/g

Maximum value of SAR (measured) = 2.53 mW/g



0 dB = 2.53mW/g

SAR MEASUREMENT PLOT 30

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.0 Degrees Celsius
36.0 %

Test Date: 21 August 2006

File Name: [Edge On OFDM 5.6 GHz Antenna Main Bluetooth Off 21-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

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

* Medium parameters used: $\sigma = 6.07791$ mho/m, $\epsilon_r = 45.4981$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

Channel 157 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.39 mW/g

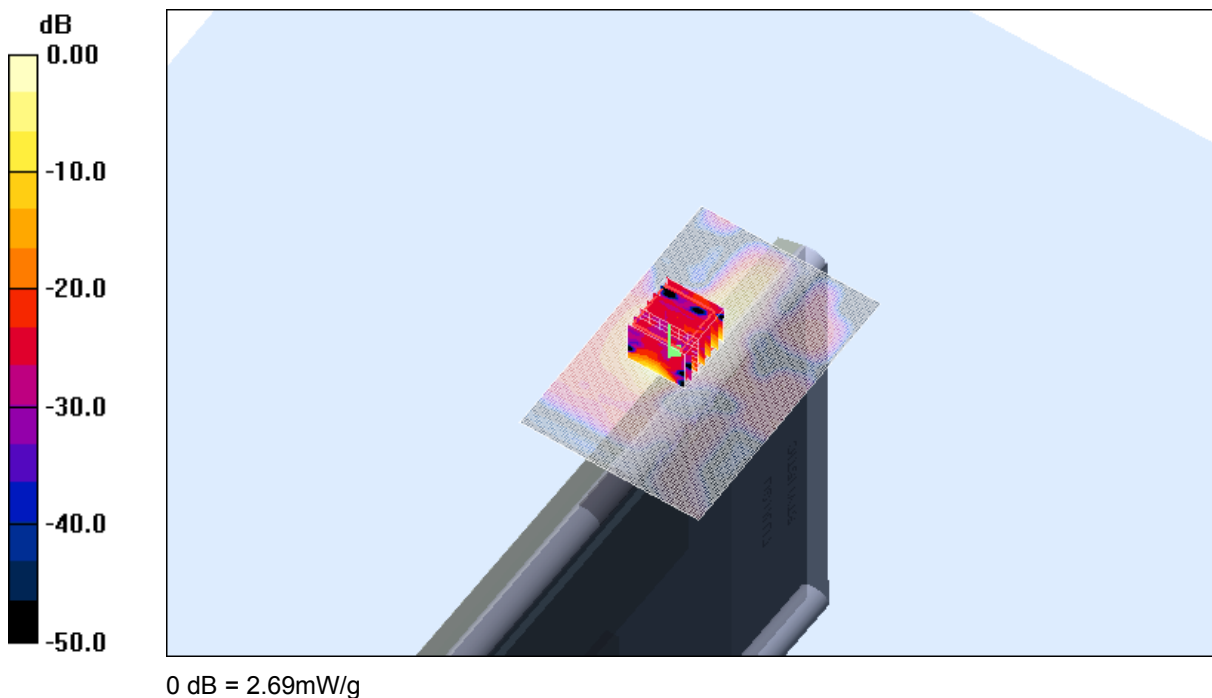
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 4.74 V/m; Power Drift = 0.391 dB

Peak SAR (extrapolated) = 6.19 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 2.69 mW/g



SAR MEASUREMENT PLOT 31

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.0 Degrees Celsius
36.0 %

Test Date: 21 August 2006

File Name: [Edge On OFDM 5.6 GHz Antenna Main Bluetooth Off 21-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

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

* Medium parameters used: $\sigma = 6.14707 \text{ mho/m}$, $\epsilon_r = 45.3835$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

Channel 165 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.76 mW/g

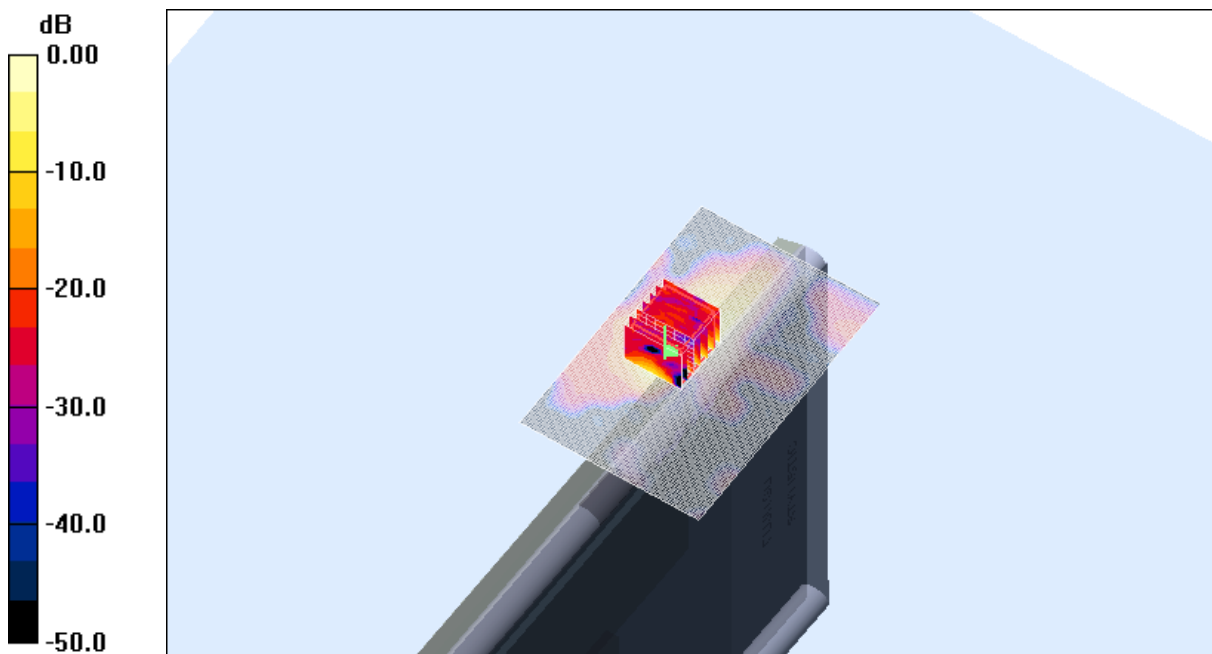
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 4.16 V/m; Power Drift = 0.227 dB

Peak SAR (extrapolated) = 6.57 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.255 mW/g

Maximum value of SAR (measured) = 2.68 mW/g



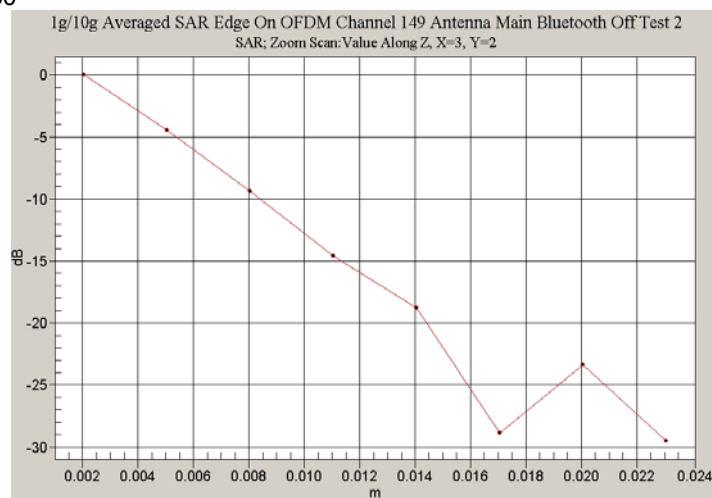
0 dB = 2.68mW/g

SAR MEASUREMENT PLOT 32

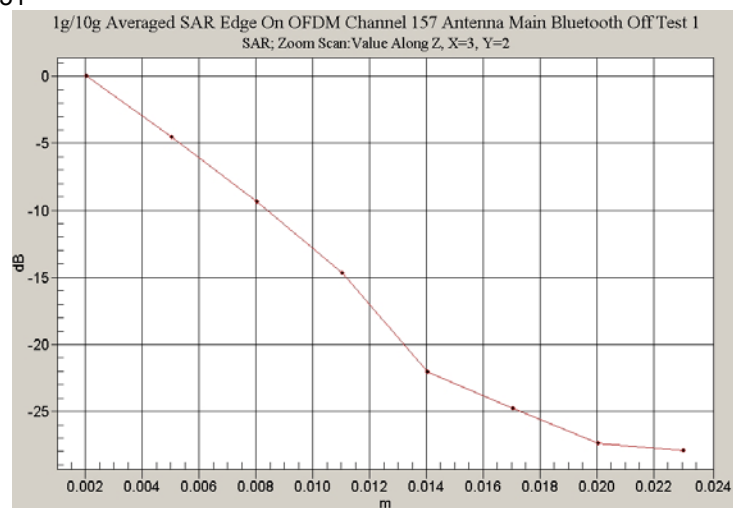
Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.0 Degrees Celsius
36.0 %

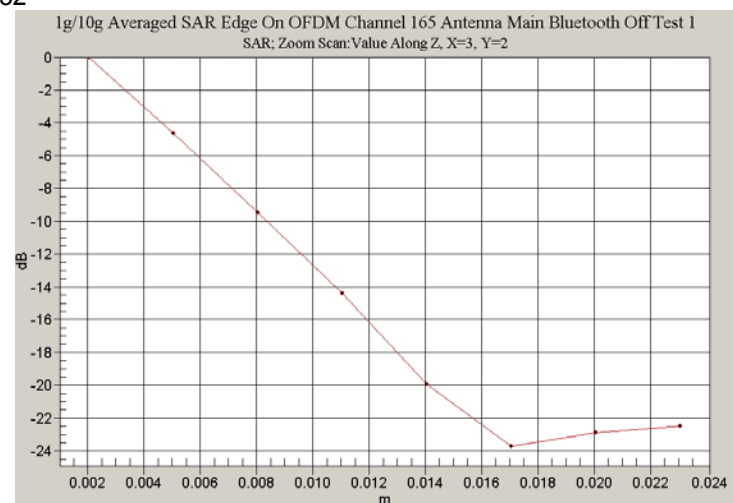
Z-Axis Graph for Plot 30



Z-Axis Graph for Plot 31



Z-Axis Graph for Plot 32



Test Date: 24 August 2006

File Name: [Tablet OFDM 5.6 GHz Antenna Main Bluetooth On 24-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

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

* Medium parameters used: $\sigma = 6.12553$ mho/m, $\epsilon_r = 44.8094$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

Channel 149 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.89 mW/g

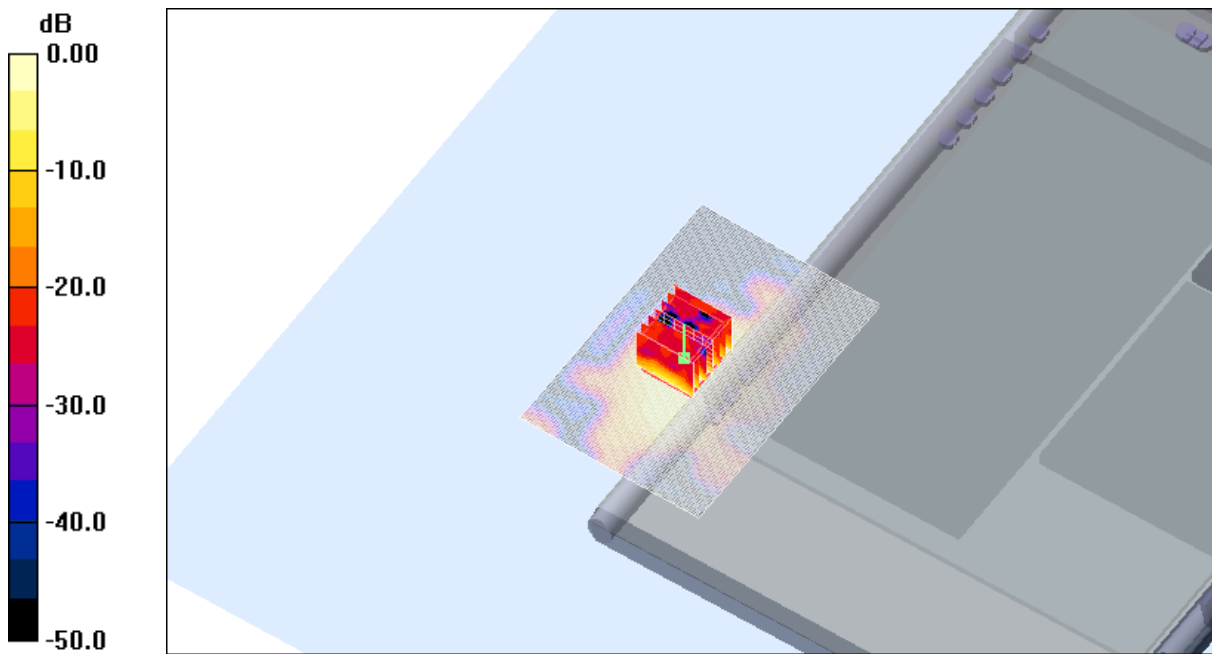
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 18.1 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 4.82 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 2.27 mW/g



0 dB = 2.27mW/g

SAR MEASUREMENT PLOT 33

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.1 Degrees Celsius
47.0 %

Test Date: 21 August 2006

File Name: [Edge On OFDM 5.6 GHz Antenna Aux Bluetooth On 21-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

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

* Medium parameters used: $\sigma = 6.14707$ mho/m, $\epsilon_r = 45.3835$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

Channel 165 Test/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm

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

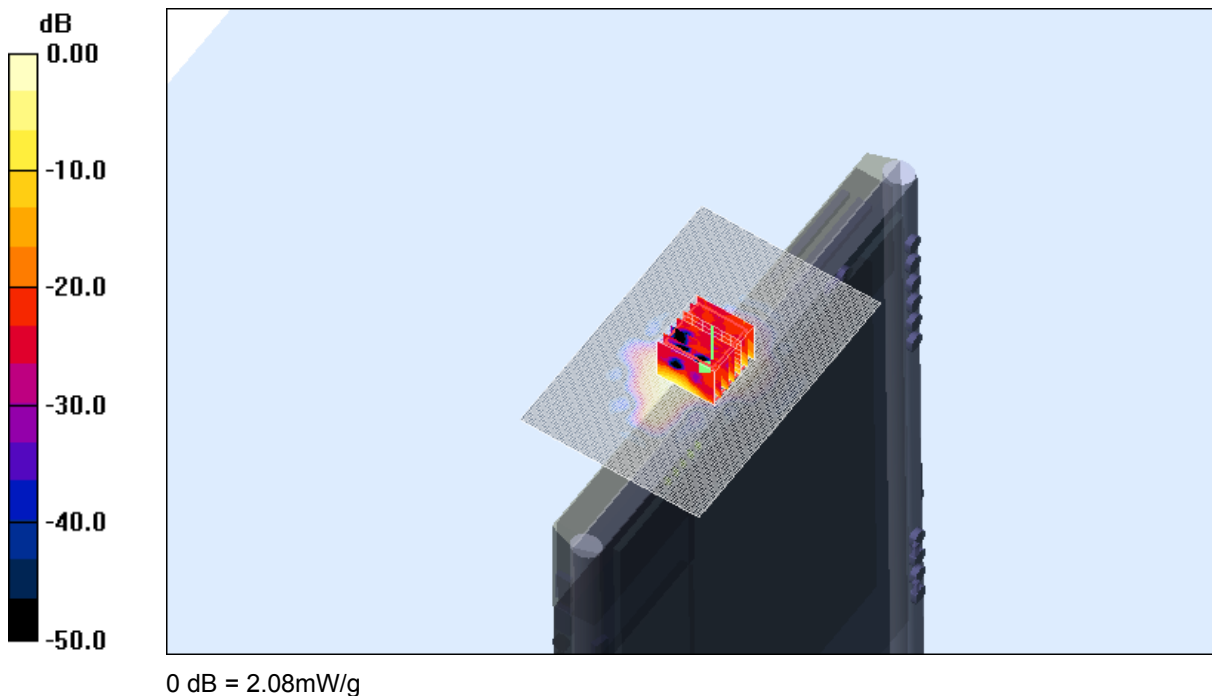
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 12.4 V/m; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 4.85 W/kg

SAR(1 g) = 0.862 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR (measured) = 2.08 mW/g



SAR MEASUREMENT PLOT 34

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.0 Degrees Celsius
36.0 %

Test Date: 21 August 2006

File Name: [Edge On OFDM 5.6 GHz Antenna Main Bluetooth On 21-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

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

* Medium parameters used: $\sigma = 6.14707$ mho/m, $\epsilon_r = 45.3835$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

Channel 165 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.81 mW/g

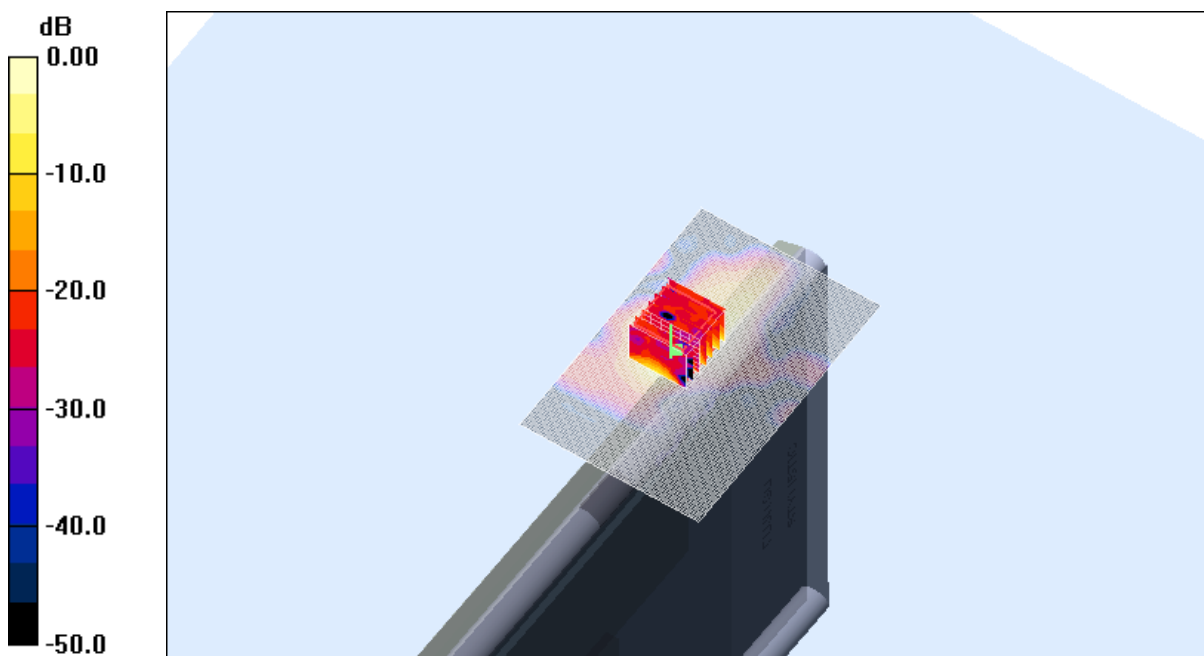
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 3.50 V/m; Power Drift = -0.394 dB

Peak SAR (extrapolated) = 6.24 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.245 mW/g

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



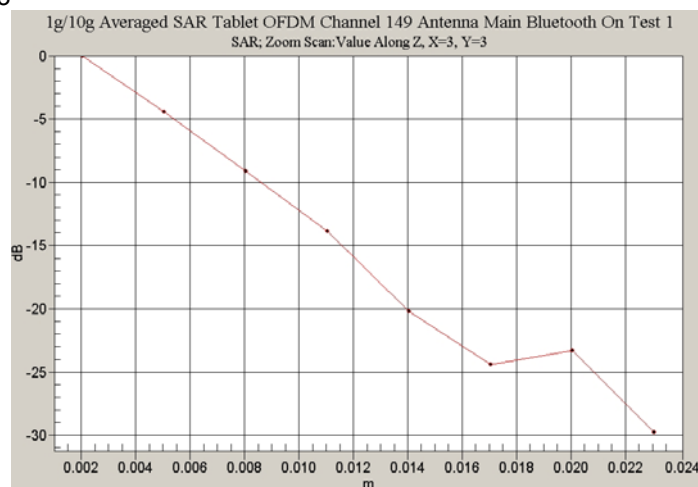
0 dB = 2.56mW/g

SAR MEASUREMENT PLOT 35

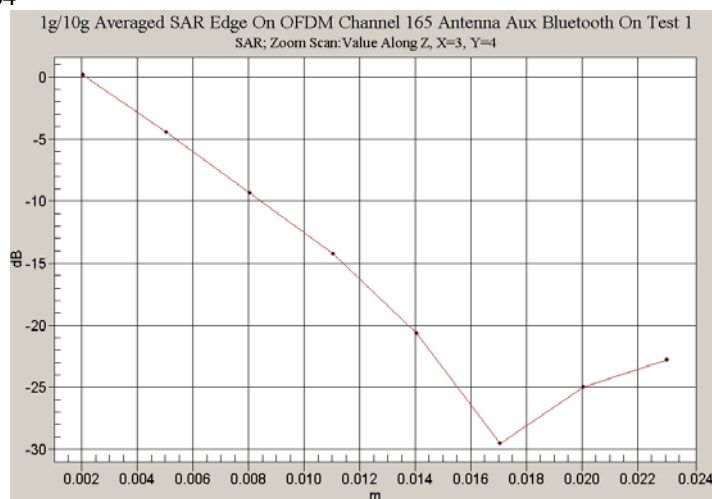
Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.0 Degrees Celsius
36.0 %

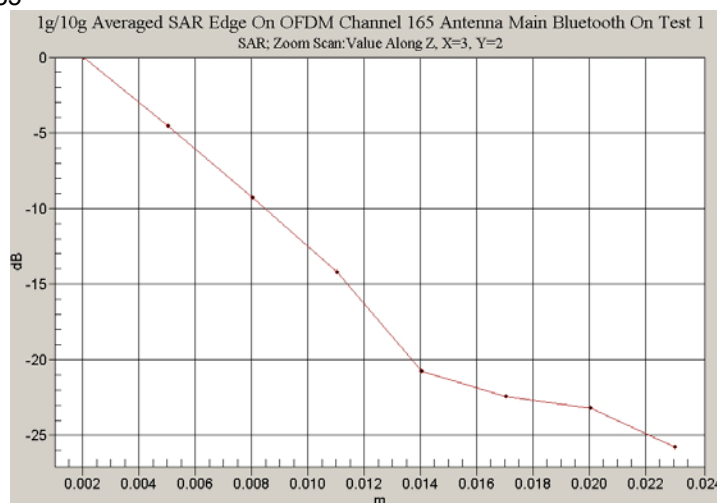
Z-Axis Graph for Plot 33



Z-Axis Graph for Plot 34



Z-Axis Graph for Plot 35



Test Date: 02 September 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 02-09-06.da4](#)

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

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

* Medium parameters used: $\sigma = 1.73108$ mho/m, $\epsilon_r = 40.827$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.49, 4.49, 4.49)

- 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) = 17.6 mW/g

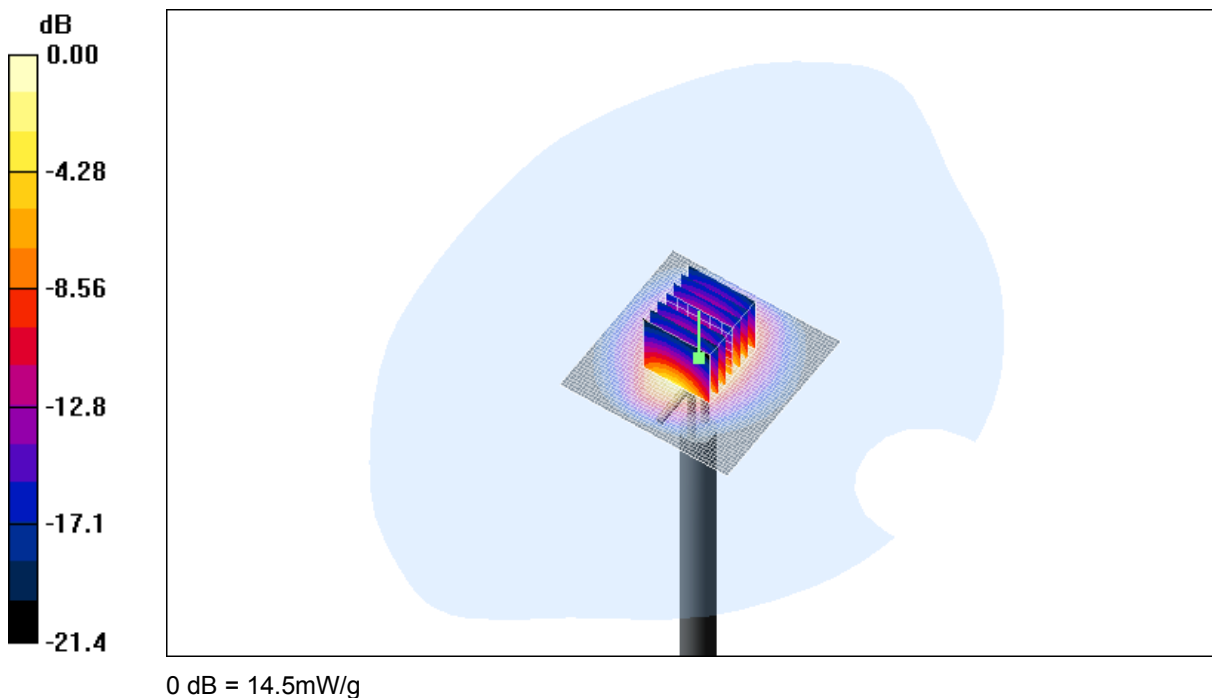
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.5 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.2 mW/g

Maximum value of SAR (measured) = 14.5 mW/g



SAR MEASUREMENT PLOT 36

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.1 Degrees Celsius
47.0 %

Test Date: 04 September 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 04-09-06.da4](#)

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

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

* Medium parameters used: $\sigma = 1.77687$ mho/m, $\epsilon_r = 39.8324$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.49, 4.49, 4.49)

- 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) = 18.7 mW/g

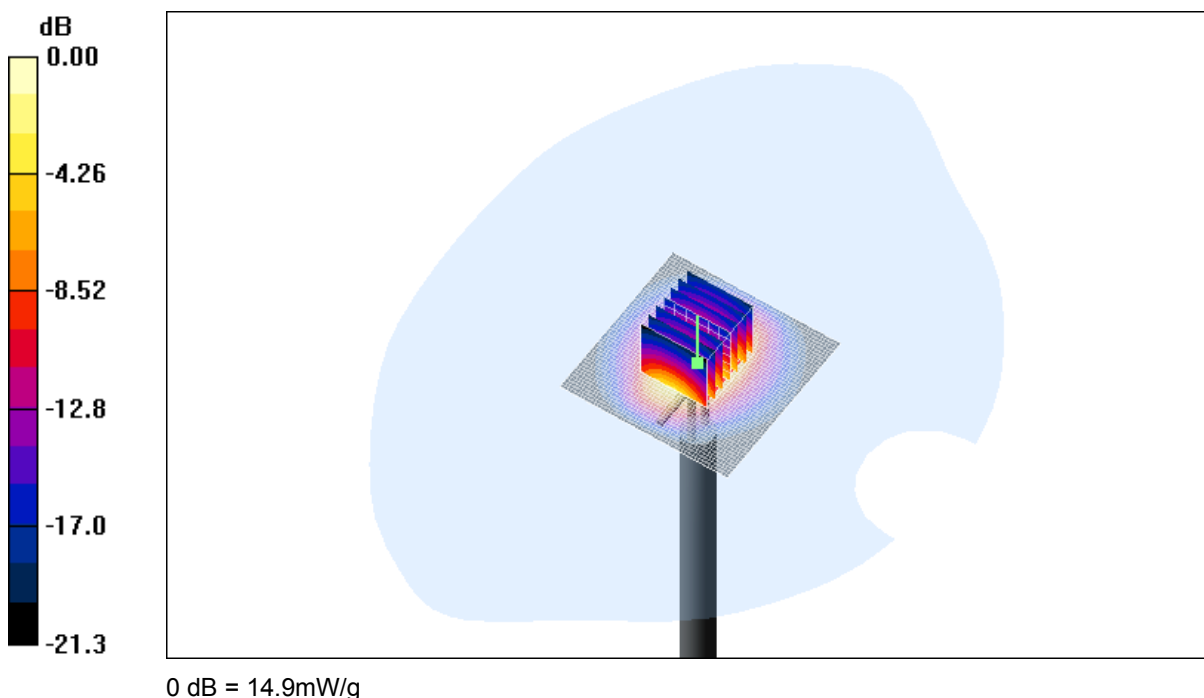
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.5 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.26 mW/g

Maximum value of SAR (measured) = 14.9 mW/g



SAR MEASUREMENT PLOT 37

Ambient Temperature
Liquid Temperature
Humidity

21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

Test Date: 21 August 2006

File Name: [Validation 5800MHz \(DAE 442 Probe EX3DV4\) 21-08-06.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: $\sigma = 5.37141$ mho/m, $\epsilon_r = 34.7828$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.66, 3.66, 3.66)

- 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) = 42.8 mW/g

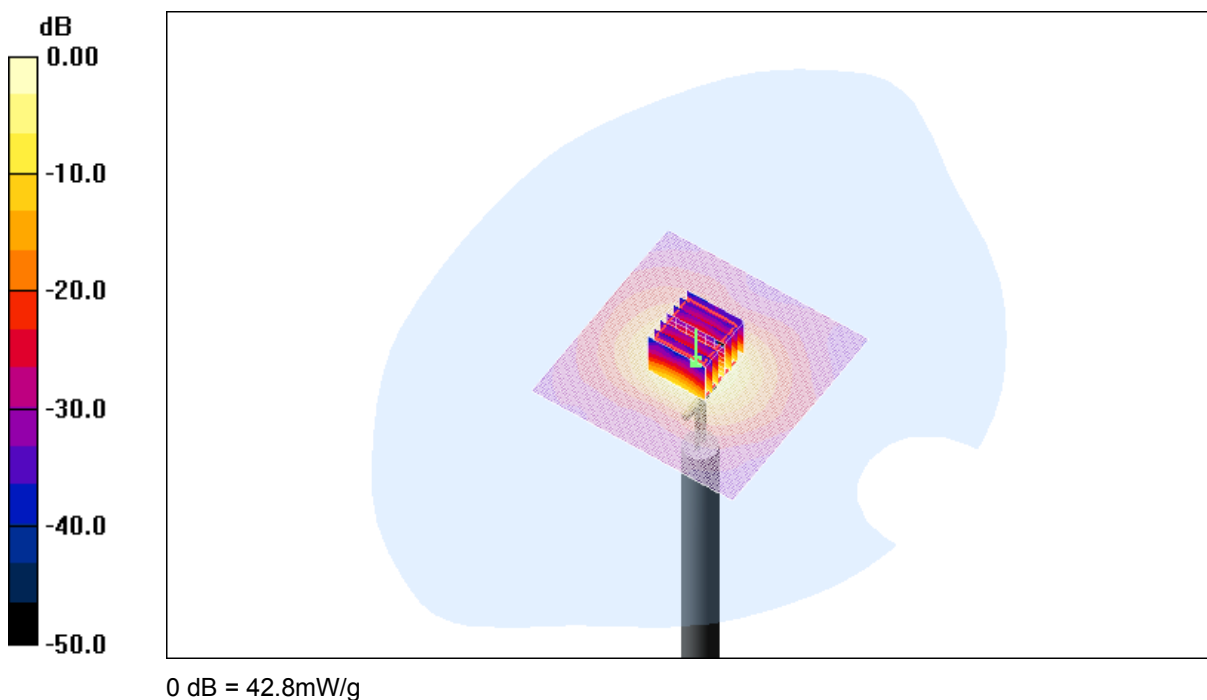
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 92.4 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 90.1 W/kg

SAR(1 g) = 19.9 mW/g; SAR(10 g) = 5.55 mW/g

Maximum value of SAR (measured) = 42.8 mW/g

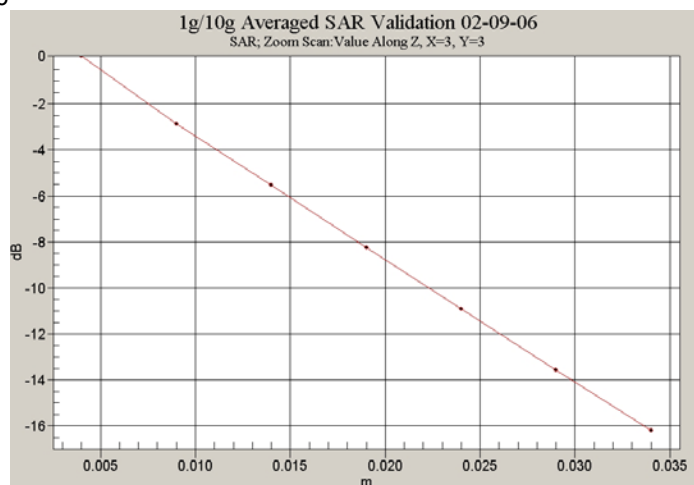


SAR MEASUREMENT PLOT 38

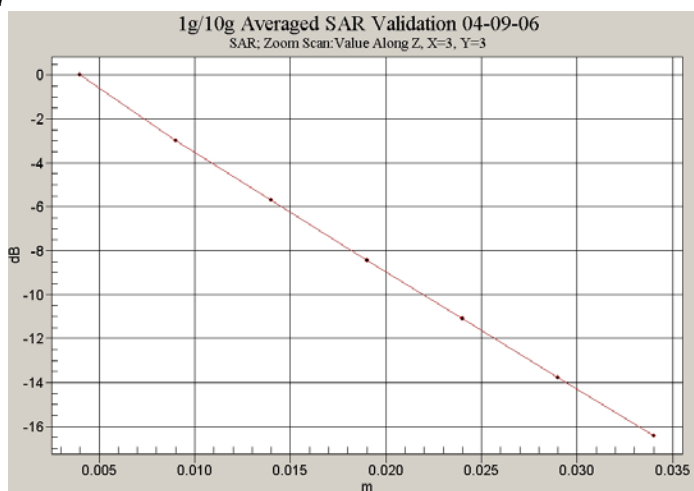
Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.0 Degrees Celsius
36.0 %

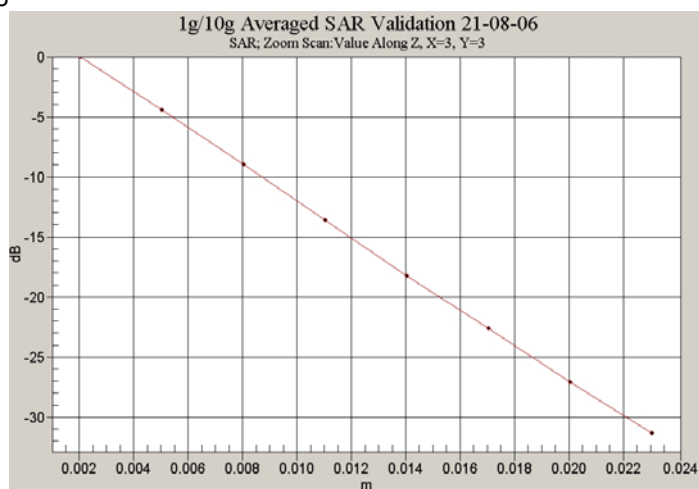
Z-Axis Graph for Plot 36



Z-Axis Graph for Plot 37



Z-Axis Graph for Plot 38



Test Date: 22 August 2006

File Name: [Validation 5800MHz \(DAE 442 Probe EX3DV4\) 22-08-06.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: $\sigma = 5.44893$ mho/m, $\epsilon_r = 34.5049$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.66, 3.66, 3.66)

- 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) = 40.7 mW/g

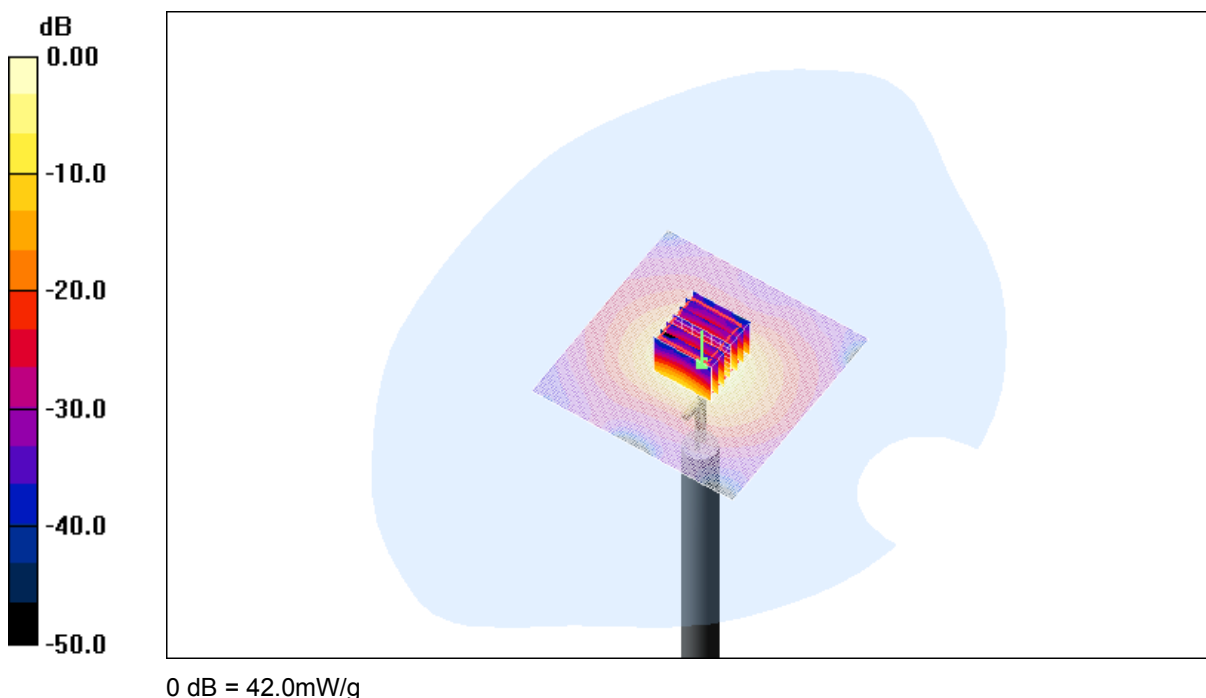
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 92.2 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 88.3 W/kg

SAR(1 g) = 19.7 mW/g; SAR(10 g) = 5.52 mW/g

Maximum value of SAR (measured) = 42.0 mW/g



SAR MEASUREMENT PLOT 39

Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.8 Degrees Celsius
43.0 %

Test Date: 24 August 2006

File Name: [Validation 5800MHz \(DAE 442 Probe EX3DV4\) 24-08-06.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: $\sigma = 5.1916$ mho/m, $\epsilon_r = 33.6727$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.66, 3.66, 3.66)

- 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) = 41.2 mW/g

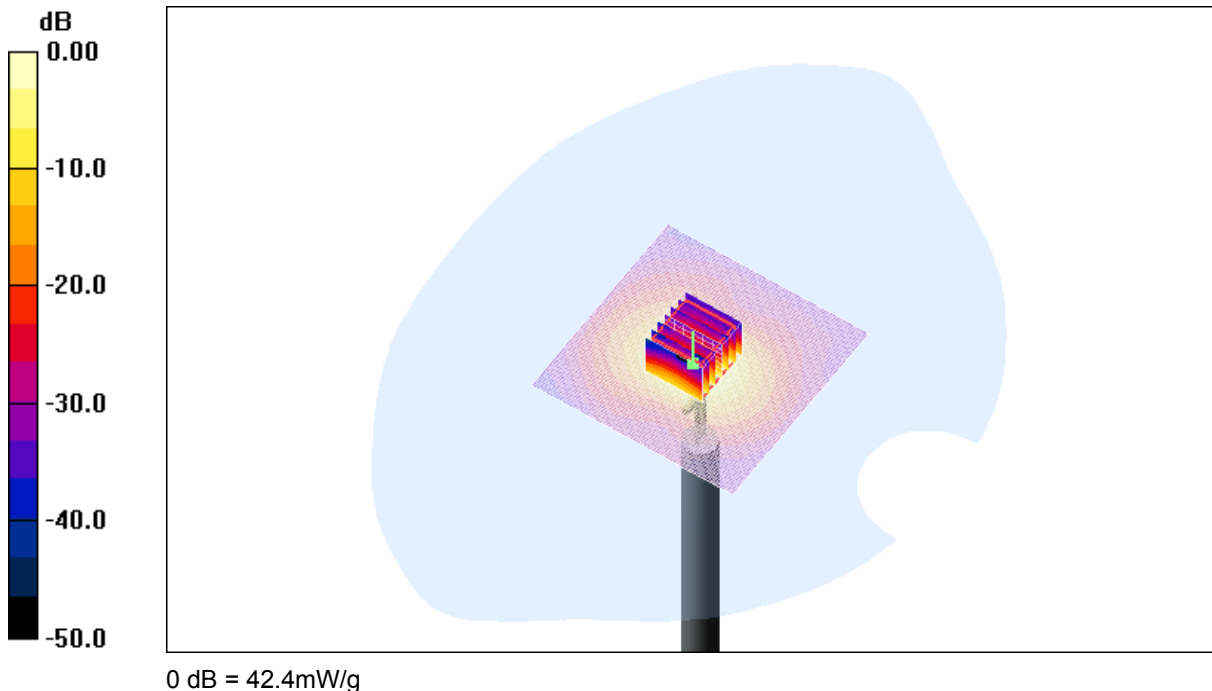
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 89.9 V/m; Power Drift = 0.169 dB

Peak SAR (extrapolated) = 89.0 W/kg

SAR(1 g) = 19.7 mW/g; SAR(10 g) = 5.46 mW/g

Maximum value of SAR (measured) = 42.4 mW/g

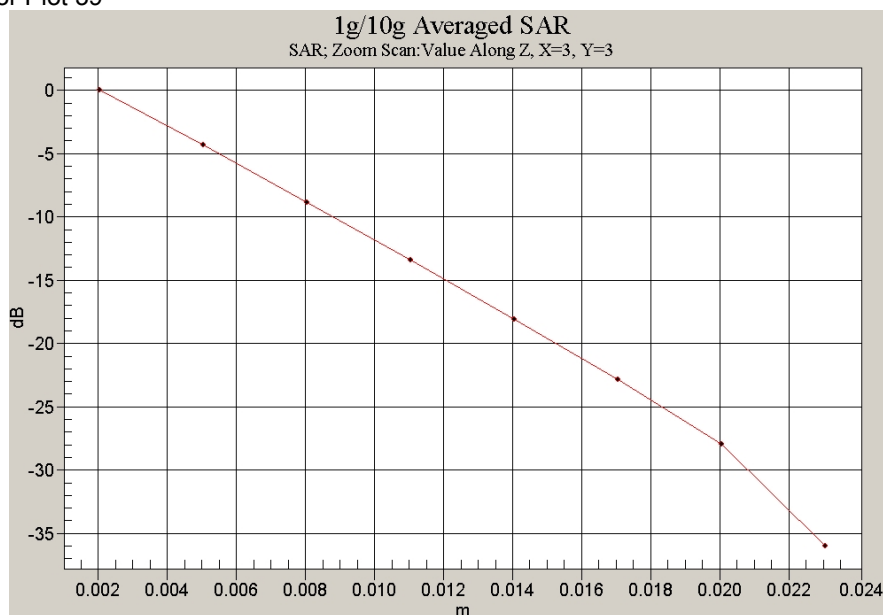


SAR MEASUREMENT PLOT 40

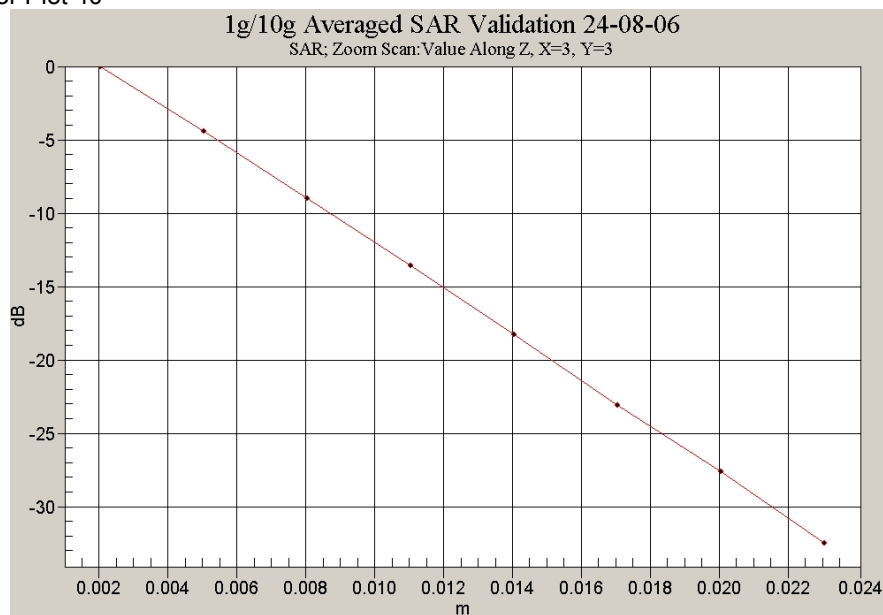
Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.1 Degrees Celsius
47.0 %

Z-Axis Graph for Plot 39



Z-Axis Graph for Plot 40



APPENDIX C

SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

1. 5800MHz E-Field Probe Calibration Sheet
2. 5GHz Dipole Calibration Sheet
3. 2450MHz E-Field Probe Calibration Sheet
4. 2.5GHz Dipole Calibration Sheet