

Test Date: 18 May 2005

File Name: [Tablet OFDM 5.77 GHz Soriel Antenna B Bluetooth On Prescan 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

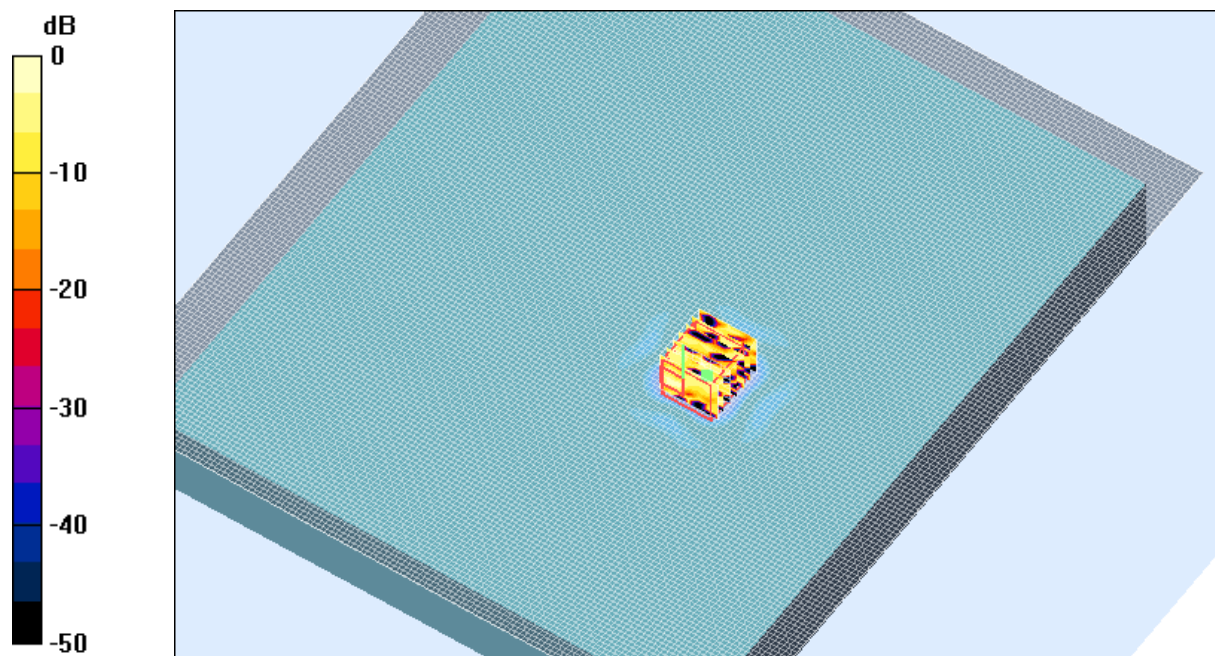
* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

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



SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 20 May 2005

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna A Bluetooth Off 20-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.22345$; mho/m, $\epsilon_r = 47.5527$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 52 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.96 mW/g

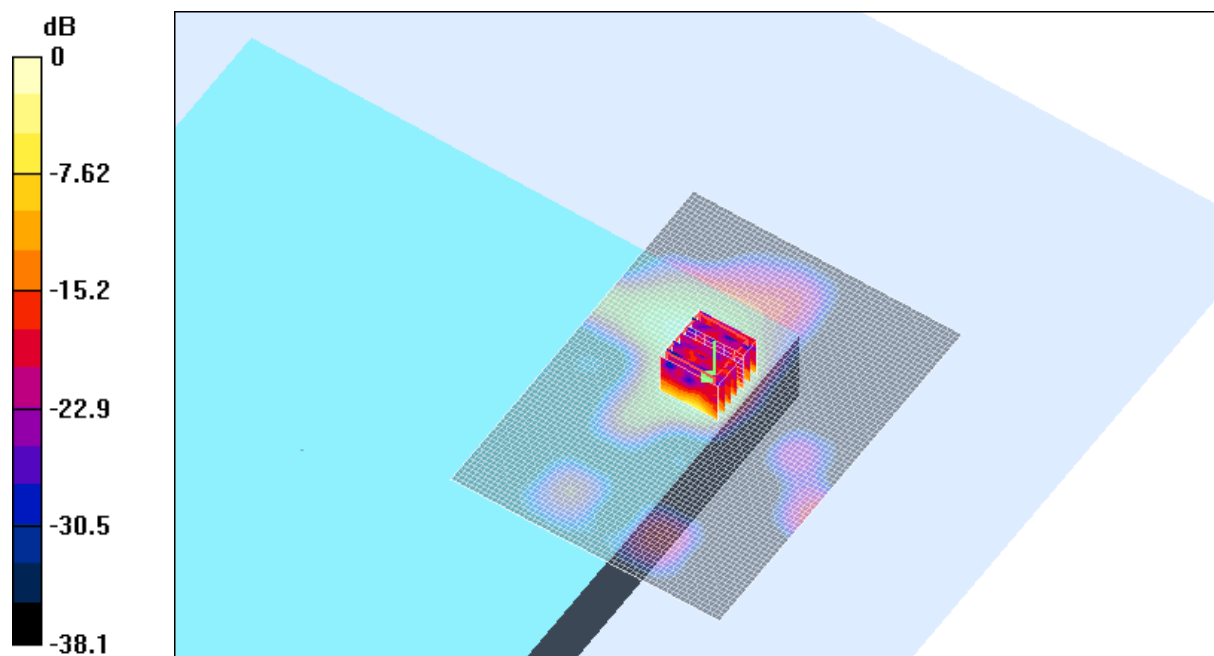
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 26.9 V/m; Power Drift = -0.3 dB

Peak SAR (extrapolated) = 4.02 W/kg

SAR(1 g) = 0.986 mW/g; SAR(10 g) = 0.291 mW/g

Maximum value of SAR (measured) = 1.64 mW/g



0 dB = 1.64mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

Test Date: 20 May 2005

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth Off 20-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.08076$; mho/m, $\epsilon_r = 47.7781$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 36 Test/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.3 mW/g

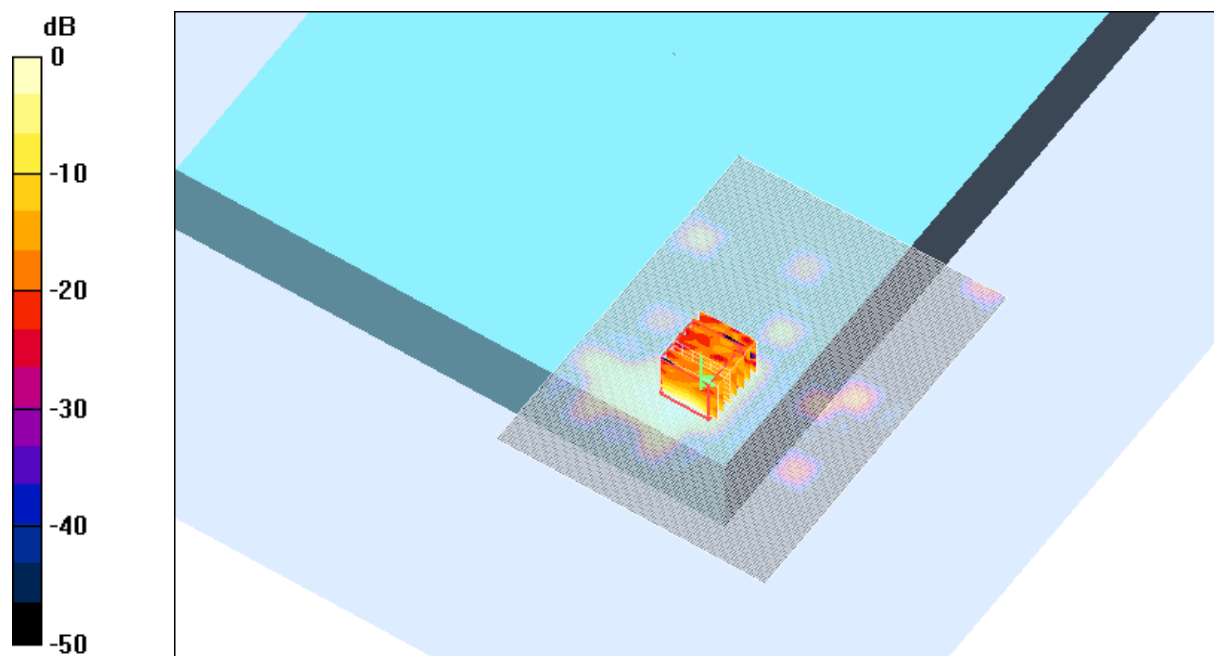
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.5 V/m; Power Drift = -0.3 dB

Peak SAR (extrapolated) = 115.8 W/kg

SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.165 mW/g

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



0 dB = 1.26mW/g

SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

Test Date: 20 May 2005

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth Off 20-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.22345$; mho/m, $\epsilon_r = 47.5527$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 52 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.888 mW/g

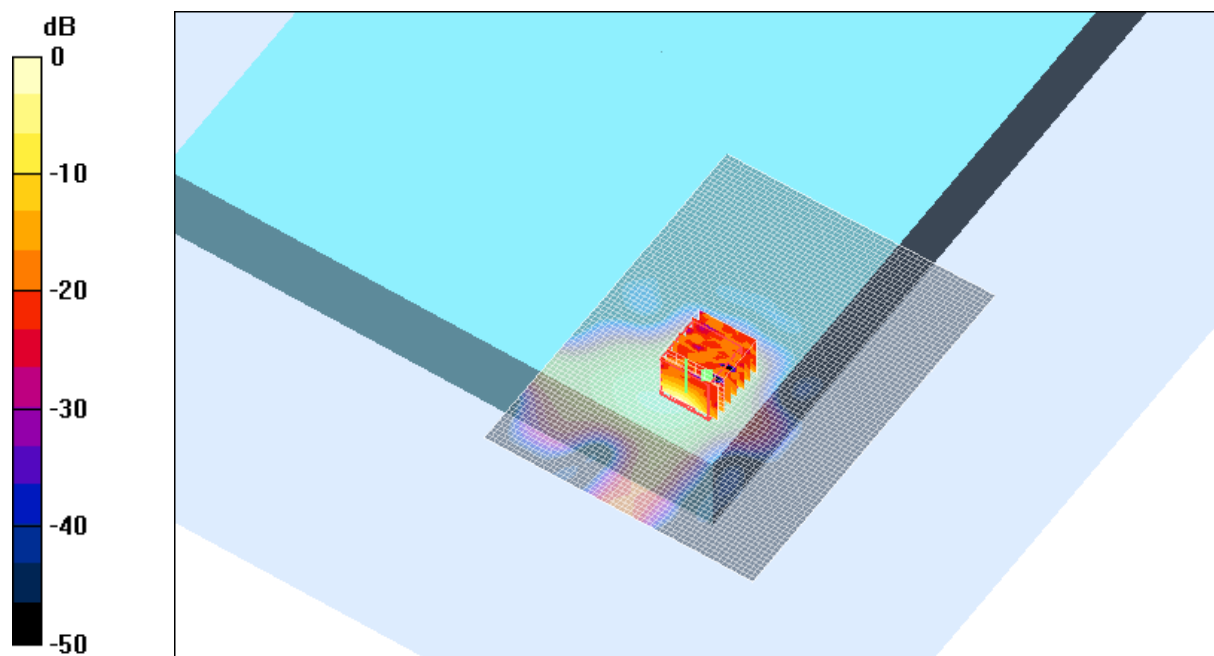
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 26.6 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 6.49 W/kg

SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.387 mW/g

Maximum value of SAR (measured) = 2.42 mW/g



0 dB = 2.42mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

Test Date: 20 May 2005

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth Off 20-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.33294$; mho/m, $\epsilon_r = 47.4429$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 64 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.806 mW/g

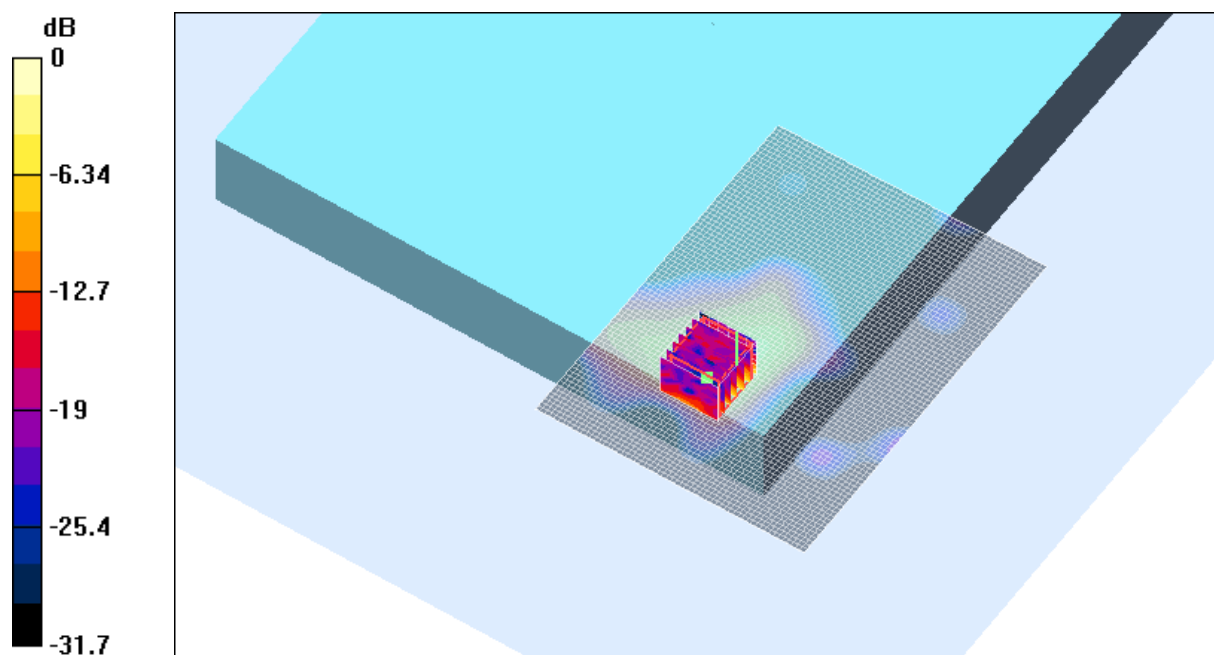
Channel 64 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 25.2 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.299 mW/g

Maximum value of SAR (measured) = 2.17 mW/g



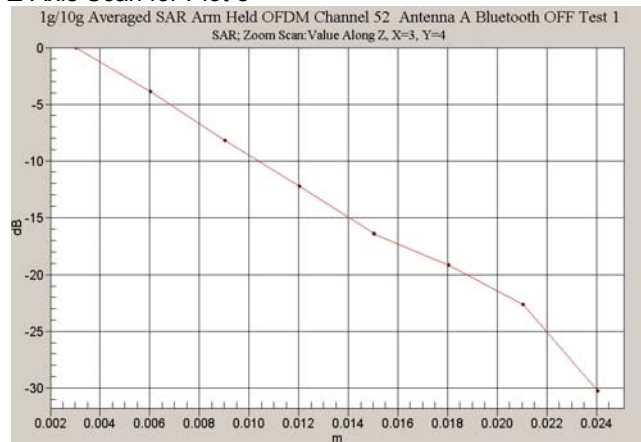
0 dB = 2.17mW/g

SAR MEASUREMENT PLOT 11

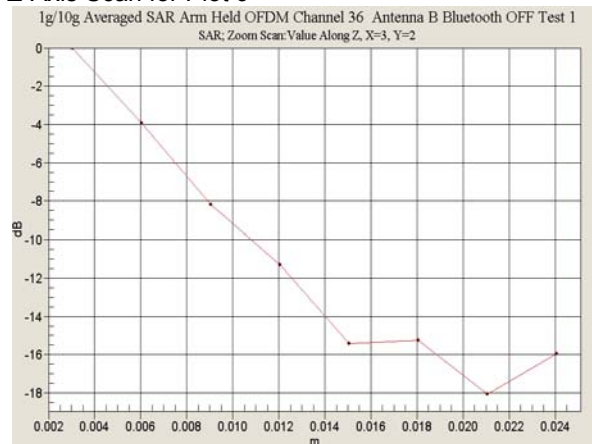
Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

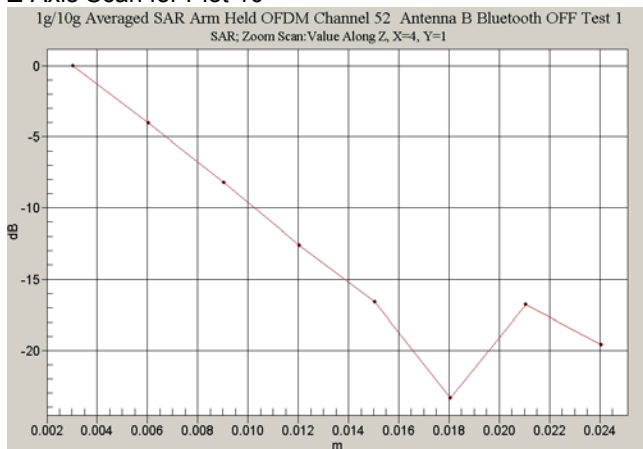
Z-Axis Scan for Plot 8



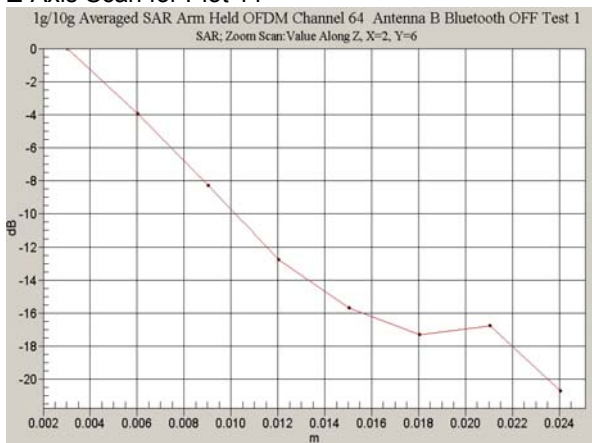
Z-Axis Scan for Plot 9



Z-Axis Scan for Plot 10



Z-Axis Scan for Plot 11



Test Date: 20 May 2005

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth On 20-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.22345$; mho/m, $\epsilon_r = 47.5527$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 52 Test/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.42 mW/g

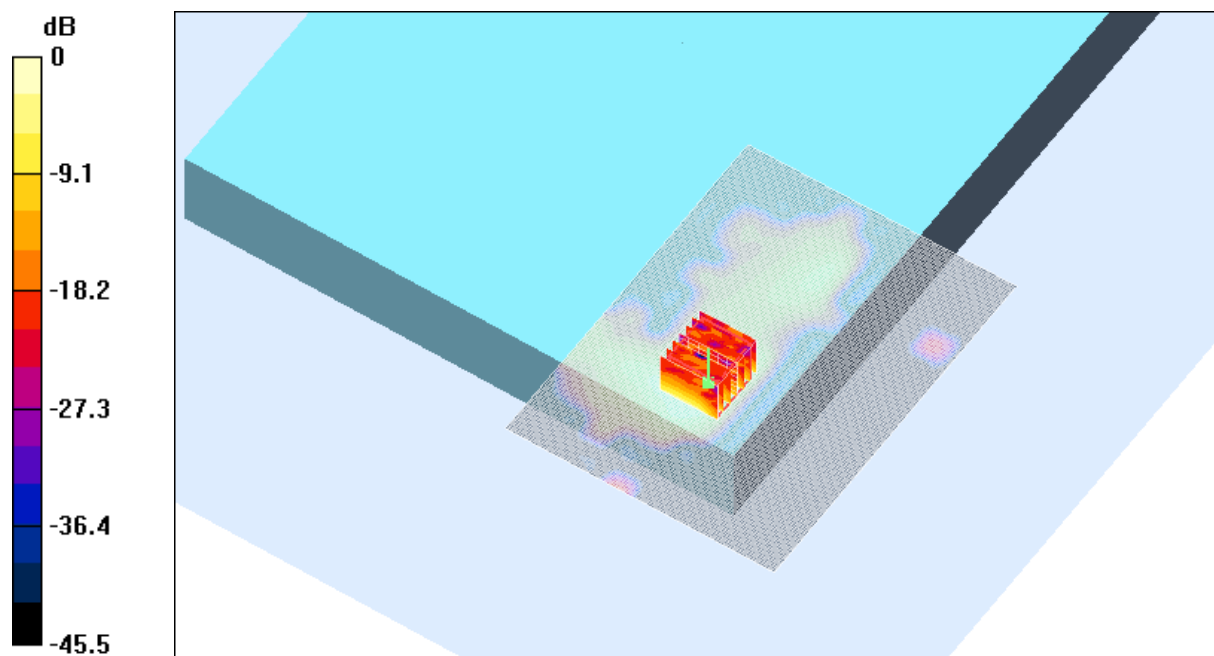
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 26.8 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 6.37 W/kg

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.402 mW/g

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



0 dB = 2.33mW/g

SAR MEASUREMENT PLOT 12

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna B Bluetooth On 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

- 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) = 1.38 mW/g

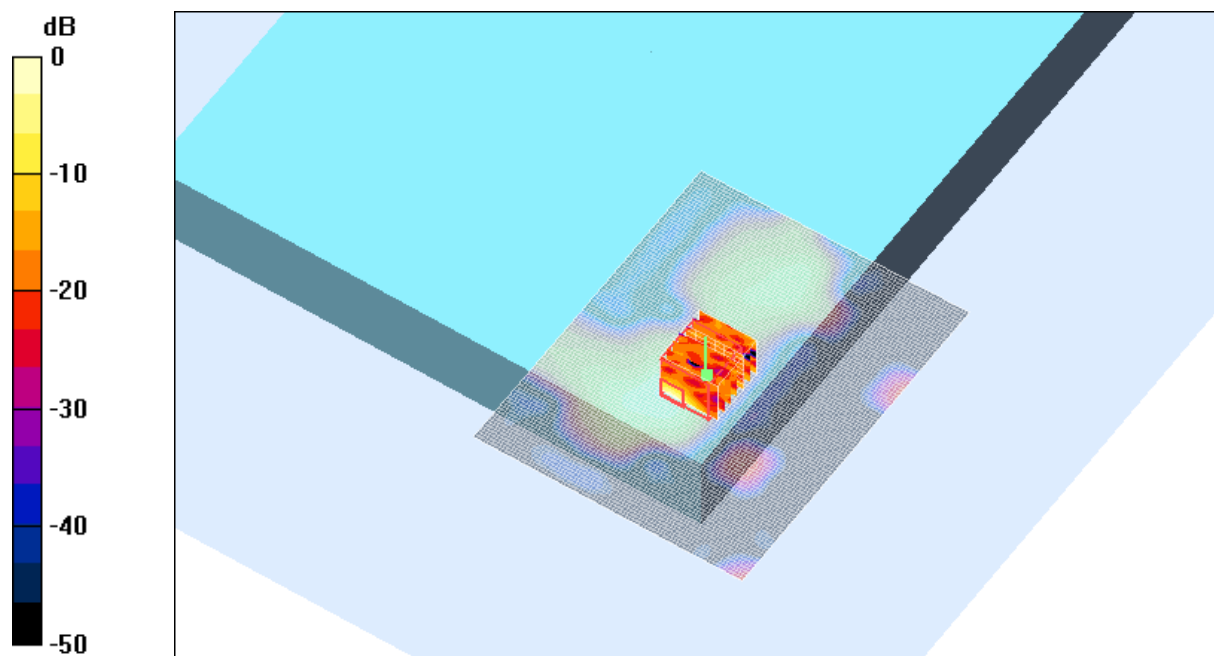
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.8 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 37 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.419 mW/g

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



0 dB = 2.34mW/g

SAR MEASUREMENT PLOT 13

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 18 May 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 18-05-05.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: $\sigma = 6.05451$; mho/m, $\epsilon_r = 44.8875$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

- 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) = 30.2 mW/g

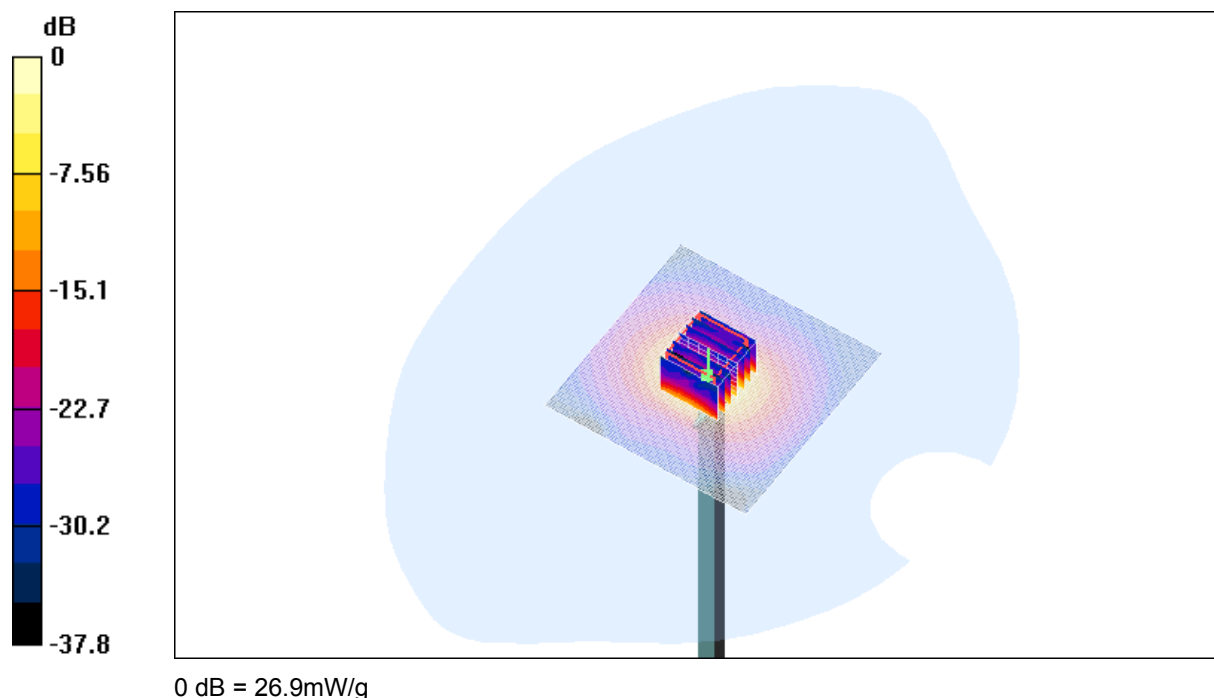
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 74.3 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 67.8 W/kg

SAR(1 g) = 18.3 mW/g; SAR(10 g) = 5.13 mW/g

Maximum value of SAR (measured) = 26.9 mW/g



SAR MEASUREMENT PLOT 14

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 19th February 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 19-05-05.da4](#)

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

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

* Medium: 5200_5800MHz Validation; Medium parameters used: $\sigma = 6.08823$; mho/m, $\epsilon_r = 44.6616$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

- 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) = 31.1 mW/g

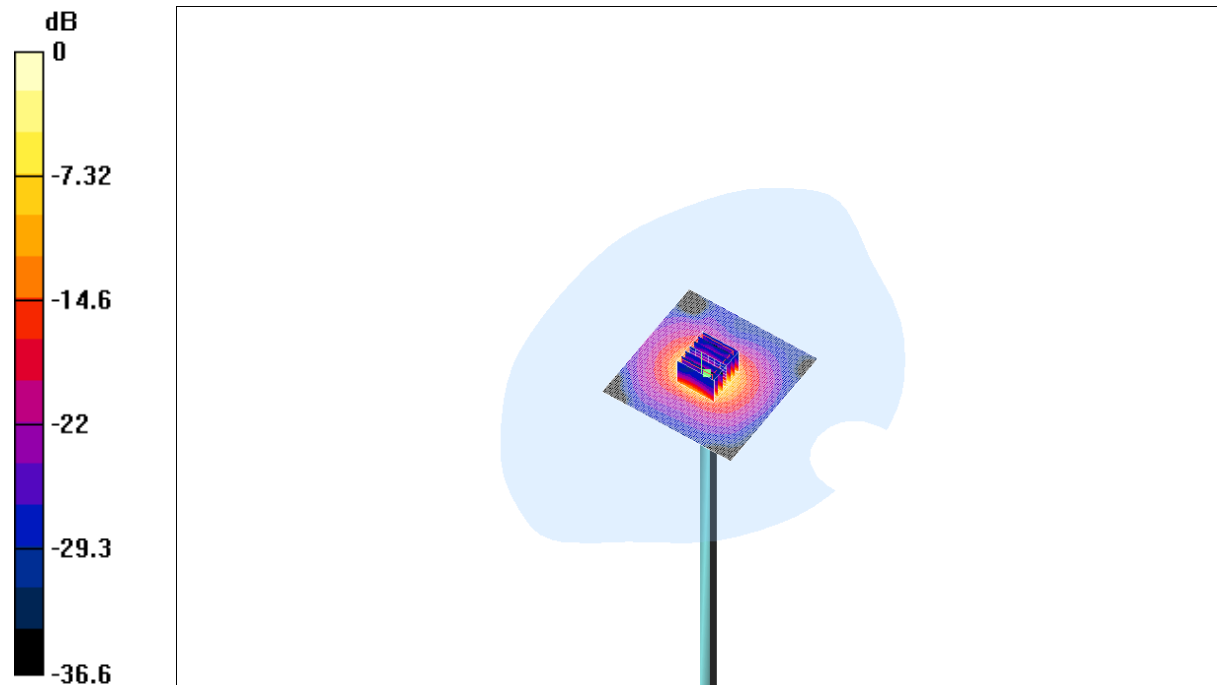
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 77.3 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 71.7 W/kg

SAR(1 g) = 18.9 mW/g; SAR(10 g) = 5.29 mW/g

Maximum value of SAR (measured) = 27.6 mW/g



0 dB = 27.6mW/g

SAR MEASUREMENT PLOT 15

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.1 Degrees Celsius
47 %

Test Date: 20 May 2005

File Name: [Validation 5200MHz \(DAE 442 Probe ES3DV3\) 20-05-05.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: $\sigma = 5.12152$; mho/m, $\epsilon_r = 47.746$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

- 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) = 32.9 mW/g

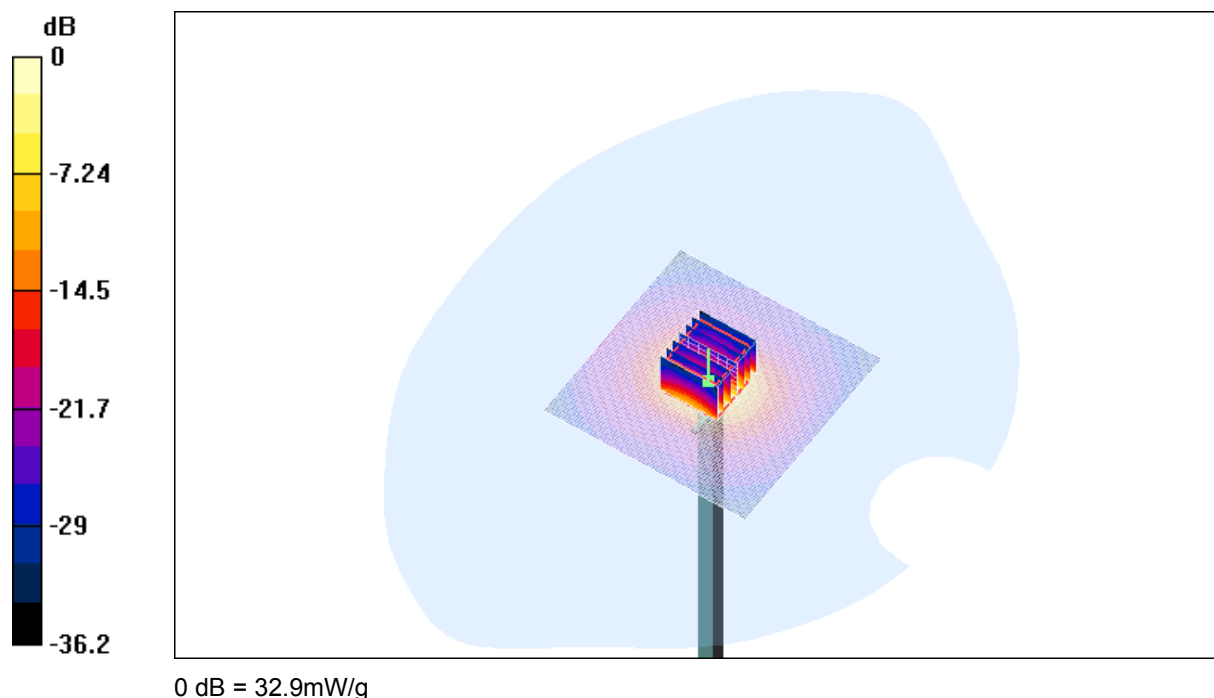
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 84.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 78.2 W/kg

SAR(1 g) = 20.6 mW/g; SAR(10 g) = 5.69 mW/g

Maximum value of SAR (measured) = 32.9 mW/g

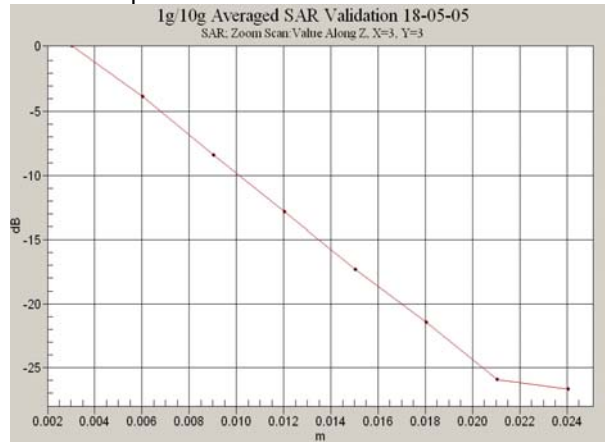


SAR MEASUREMENT PLOT 16

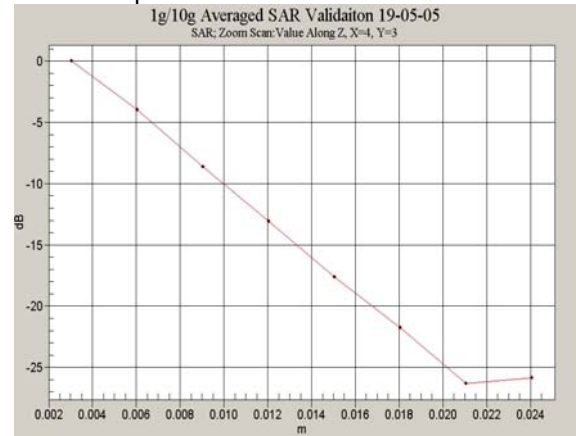
Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

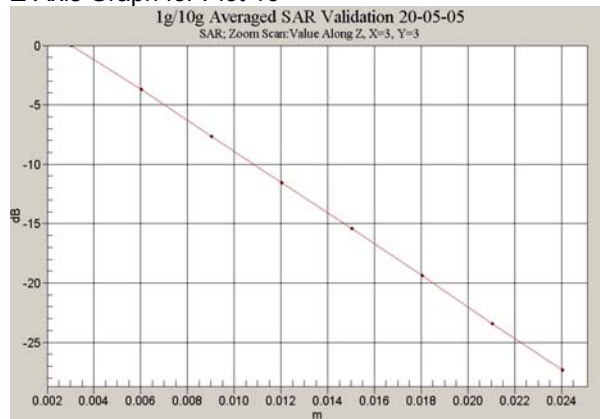
Z-Axis Graph for Plot 14



Z-Axis Graph for Plot 15



Z-Axis Graph for Plot 16



APPENDIX C

SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

- | | |
|---|---------|
| 1. 5200/5800GHz E-Field Probe Calibration Sheet | 9 Pages |
| 2. 5200/5800MHz Dipole Calibration Sheet | 6 pages |