

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” and “Tablet” tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

NOTE on SAR Graphs: The Z-axis scans listed in this appendix do not always show a consistent decay over distance. This is not due to an incorrect liquid level but is due to the very steep field gradients in the 5-6 GHz band. At distances of greater than 20mm, the SAR levels are in the noise floor, and the calculated levels should be ignored. This is an artefact caused by the DASY4 SEMCAD software algorithms.

According to the DASY4 manufacturer the artifact is “...due to the very rapid decay of the fields within the liquid at this frequency, the values far away from the phantom's surface are so low, that SEMCAD currently identifies them as noise.” SPEAG has advised that this problem will be rectified in the next build of the software.

Table 22: SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position – Ant B – Pre-scan	CH#157
Plot 2	Lap Arm Held Position – Ant A	CH#149
Plot 3	Lap Arm Held Position – Ant A	CH#157
Plot 4	Lap Arm Held Position – Ant A	CH#161
Plot 5	Lap Arm Held Position – Ant B	CH#149
Plot 6	Lap Arm Held Position – Ant B	CH#157
Plot 7	Lap Arm Held Position – Ant B	CH#161
Z-axis graphs	Z-Axis graphs for Plots 2 to 7	
Plot 8	Tablet Position – Ant A	CH#157

Table 23: 5800 MHz Band SAR Measurement Plot Numbers

Plot 9	Lap Arm Held Position – Ant A	CH#36
Plot 10	Lap Arm Held Position – Ant A	CH#48
Plot 11	Lap Arm Held Position – Ant A	CH#64
Plot 12	Lap Arm Held Position – Ant B	CH#36
Plot 13	Lap Arm Held Position – Ant B	CH#48
Plot 14	Lap Arm Held Position – Ant B	CH#64
Z-axis graphs	Z-Axis graphs for Plots 10 to 12	

Table 24: 2450MHz Validation Plot

Plot 15	Validation 5800MHz
Plot 16	Validation 5800MHz
Plot 17	Validation 5200MHz
Z-axis graphs	Z-Axis graphs for Plots 15 to 17

Test Date: 21 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna B Bluetooth On Prescan 21-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 6.28072$; mho/m, $\epsilon_r = 43.5905$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 157 Bluetooth at 2441 MHz Test/Area Scan (141x161x1): Measurement

grid: dx=20mm, dy=20mm

Reference Value = 15 V/m; Power Drift = -0.4 dB

Maximum value of SAR (interpolated) = 0.912 mW/g

Channel 157 Bluetooth at 2441 MHz Test/Zoom Scan (7x7x8)/Cube 0:

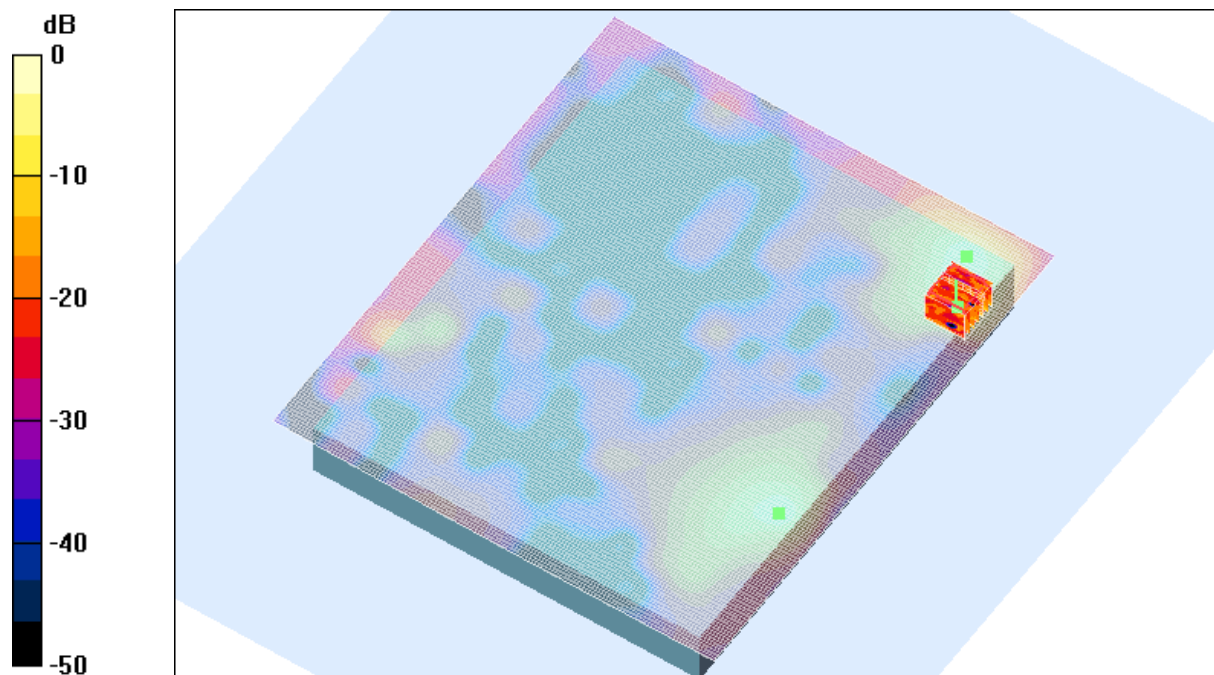
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15 V/m; Power Drift = -0.4 dB

Maximum value of SAR (measured) = 2.09 mW/g

Peak SAR (extrapolated) = 5.58 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.311 mW/g



0 dB = 2.09mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 22 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna A Bluetooth Off 22-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 6.03976$; mho/m, $\epsilon_r = 43.5689$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 149 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 16.9 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.659 mW/g

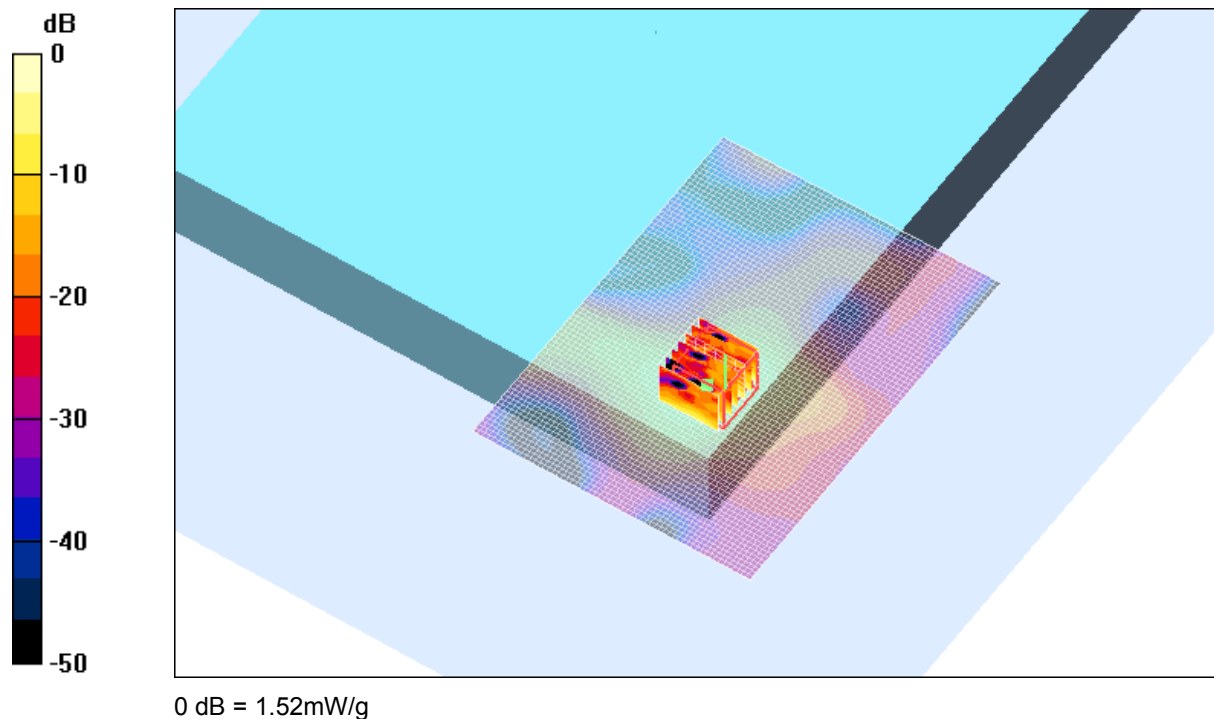
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.9 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 1.52 mW/g

Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.258 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
40 %

Test Date: 21 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna A Bluetooth Off 21-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 6.28072$; mho/m, $\epsilon_r = 43.5905$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 157 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 17.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.954 mW/g

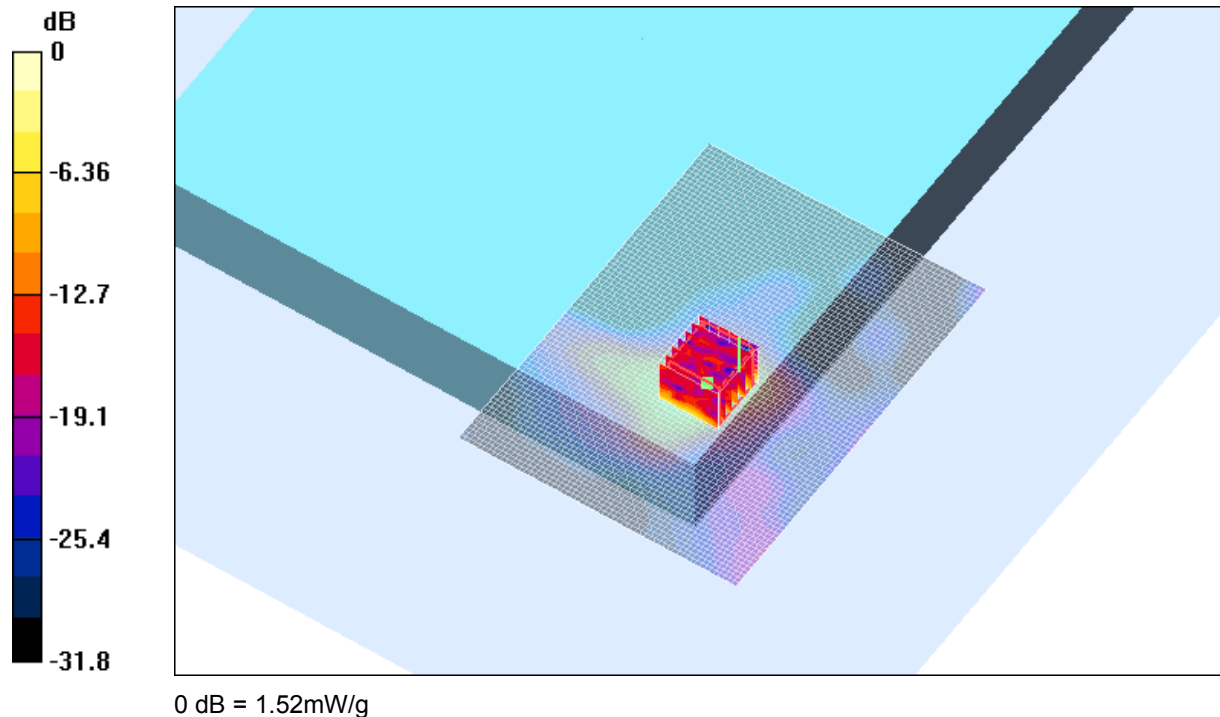
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 17.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 1.52 mW/g

Peak SAR (extrapolated) = 5.53 W/kg

SAR(1 g) = 0.980 mW/g; SAR(10 g) = 0.300 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 22 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna A Bluetooth Off 22-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

* Communication System: OFDM 5770 MHz; Frequency: 5805 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.16423$; mho/m, $\epsilon_r = 43.4243$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 161 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 17.4 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 1.16 mW/g

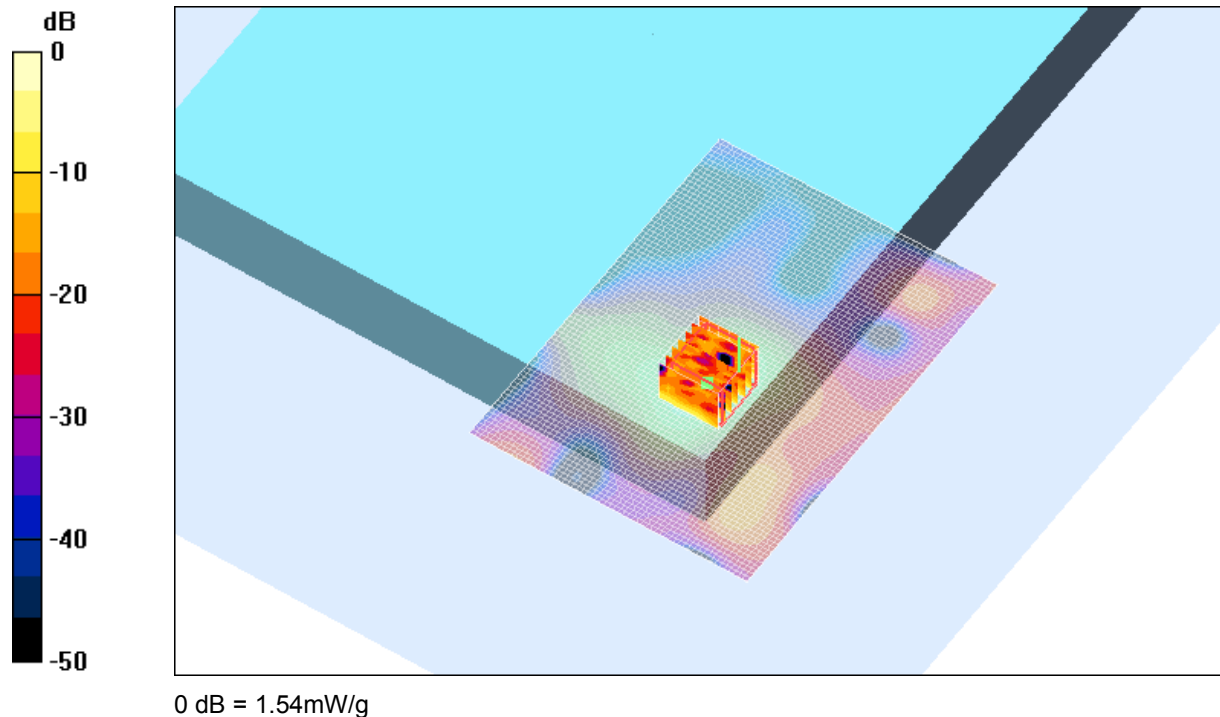
Channel 161 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 17.4 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 1.54 mW/g

Peak SAR (extrapolated) = 4.75 W/kg

SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.274 mW/g



SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
40 %

Test Date: 21 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna B Bluetooth Off 21-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 6.20808$; mho/m, $\epsilon_r = 43.7024$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 149 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 17.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 1.57 mW/g

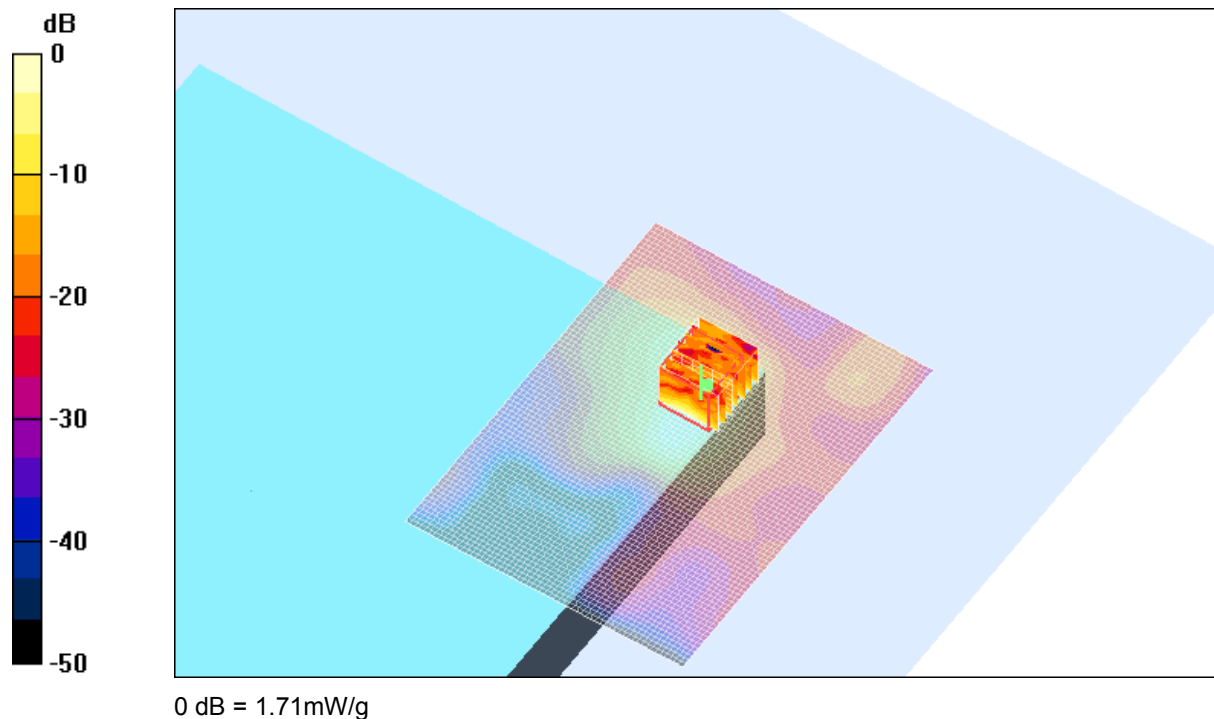
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 17.2 V/m; Power Drift = -0.1 dB

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

Peak SAR (extrapolated) = 5.07 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.335 mW/g



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 21 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna B Bluetooth Off 21-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 6.28072$; mho/m, $\epsilon_r = 43.5905$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 157 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 20.1 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 2 mW/g

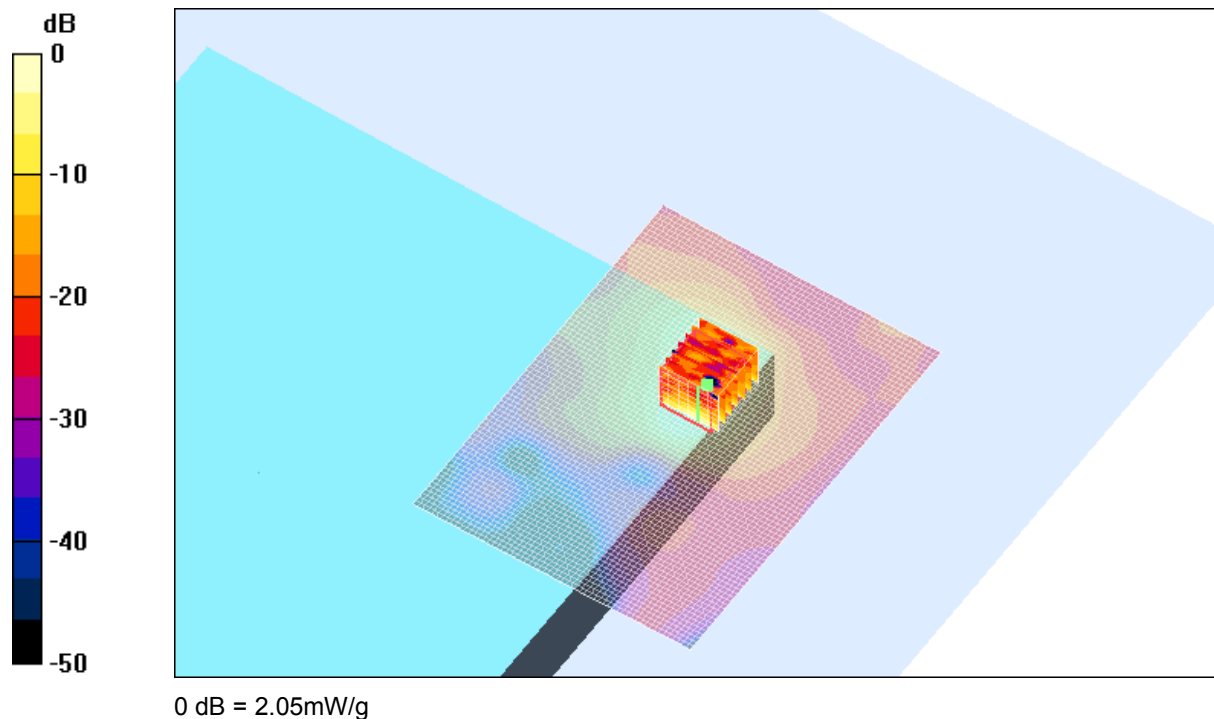
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 20.1 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 2.05 mW/g

Peak SAR (extrapolated) = 6.68 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.413 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 21 July 2004

File Name: [Arm Held OFDM 5.77 GHz Soriel Antenna B Bluetooth Off 21-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

* Communication System: OFDM 5770 MHz; Frequency: 5805 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.31855$; mho/m, $\epsilon_r = 43.5171$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 161 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 16.9 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 2.01 mW/g

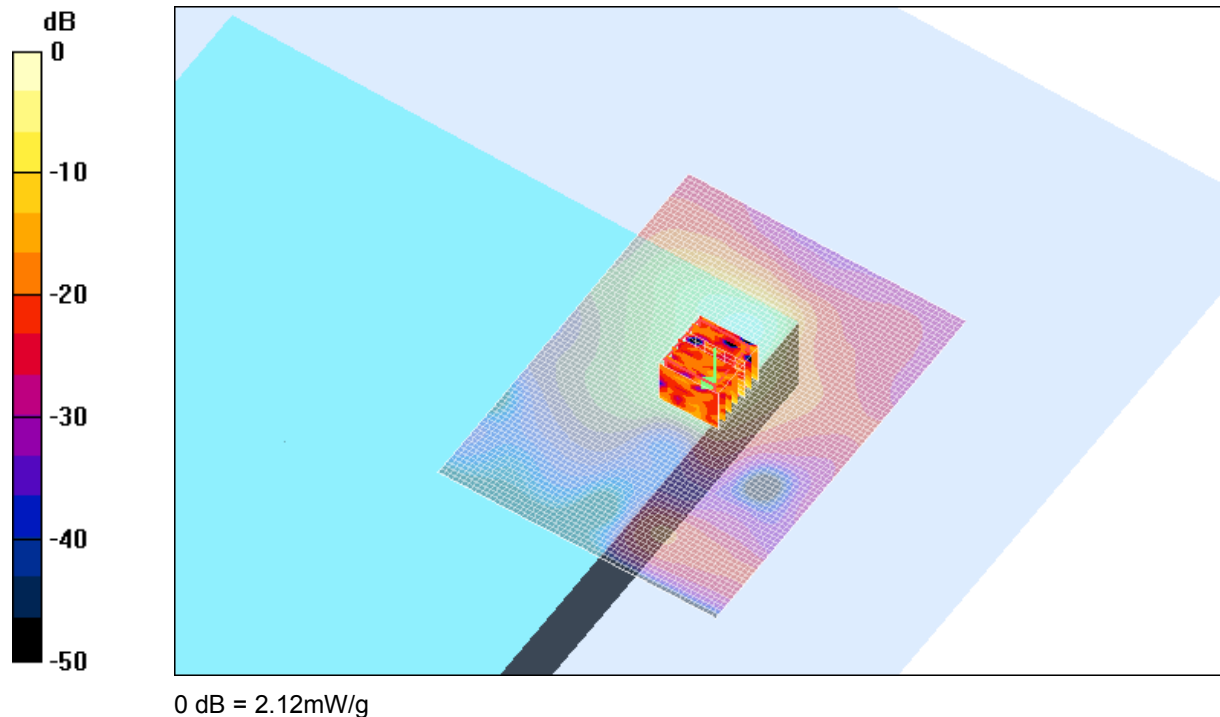
Channel 161 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.9 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 2.12 mW/g

Peak SAR (extrapolated) = 6.9 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.345 mW/g

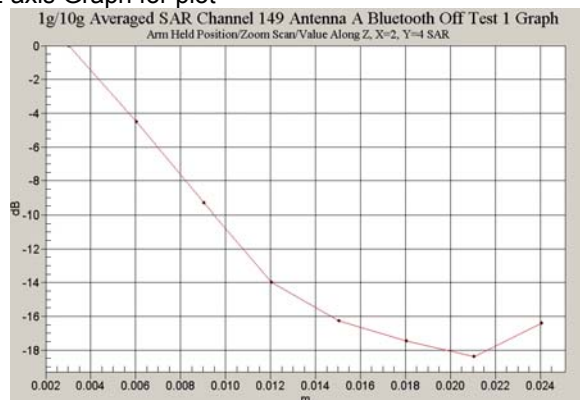


SAR MEASUREMENT PLOT 7

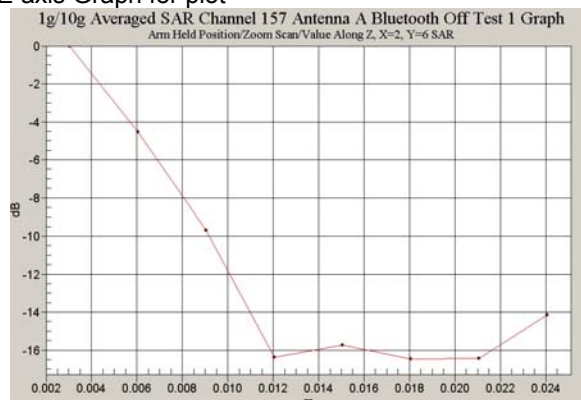
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

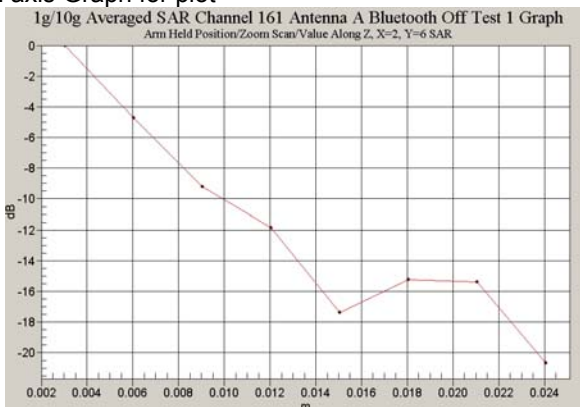
Z-axis Graph for plot



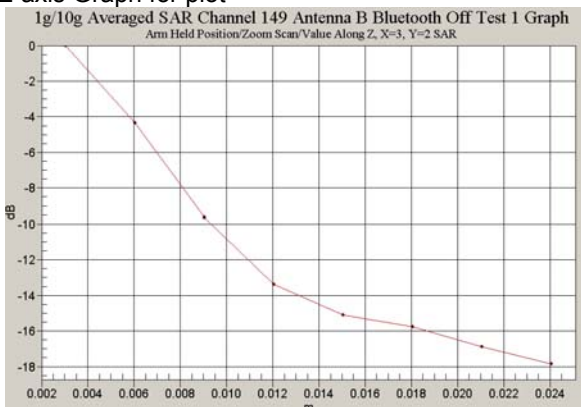
Z-axis Graph for plot



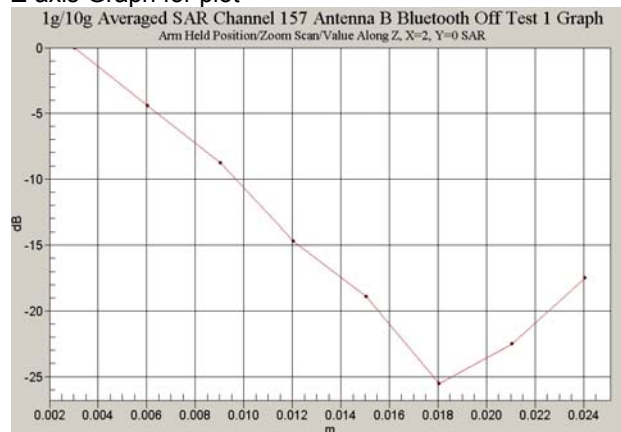
Z-axis Graph for plot



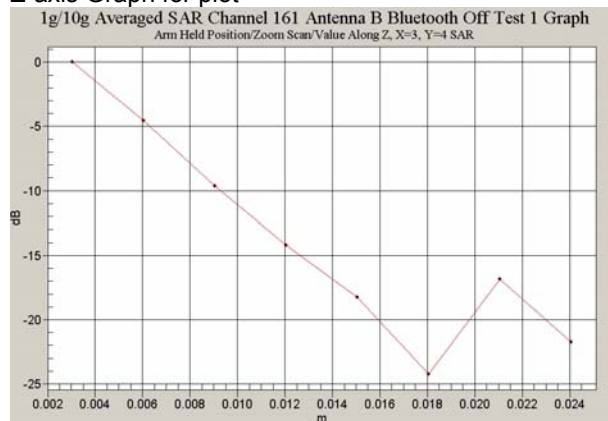
Z-axis Graph for plot



Z-axis Graph for plot



Z-axis Graph for plot



Test Date: 21 July 2004

File Name: [Tablet OFDM 5.77 GHz Soriel Antenna A Bluetooth On Prescan 21-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 6.28072$; mho/m, $\epsilon_r = 43.5905$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

Channel 157 Bluetooth at 2441 MHz Test/Area Scan (141x161x1): Measurement

grid: dx=20mm, dy=20mm

Reference Value = 0.372 V/m; Power Drift = 1e+001 dB

Maximum value of SAR (interpolated) = 0.067 mW/g

Channel 157 Bluetooth at 2441 MHz Test/Zoom Scan (7x7x8)/Cube 0:

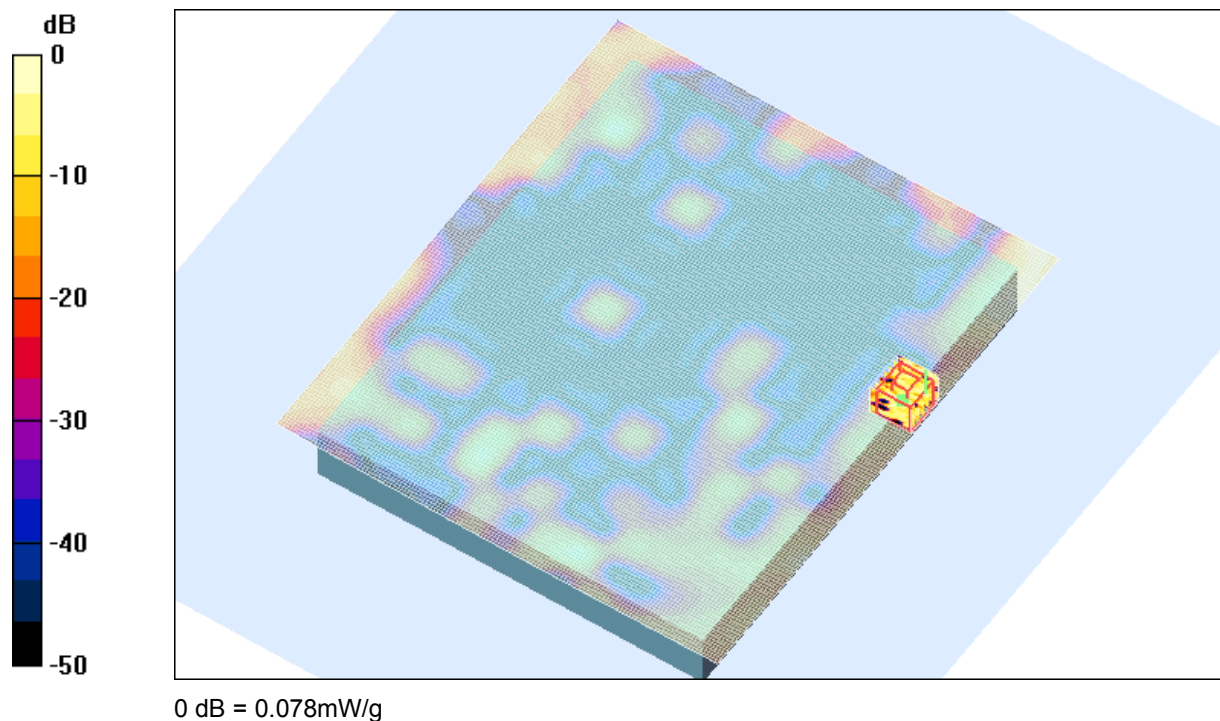
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 0.372 V/m; Power Drift = 1e+001 dB

Maximum value of SAR (measured) = 0.078 mW/g

Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.016 mW/g



SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 23 July 2004

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna A Bluetooth Off 23-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 5.39874$; mho/m, $\epsilon_r = 44.6755$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

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

Channel 36 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 14.9 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.726 mW/g

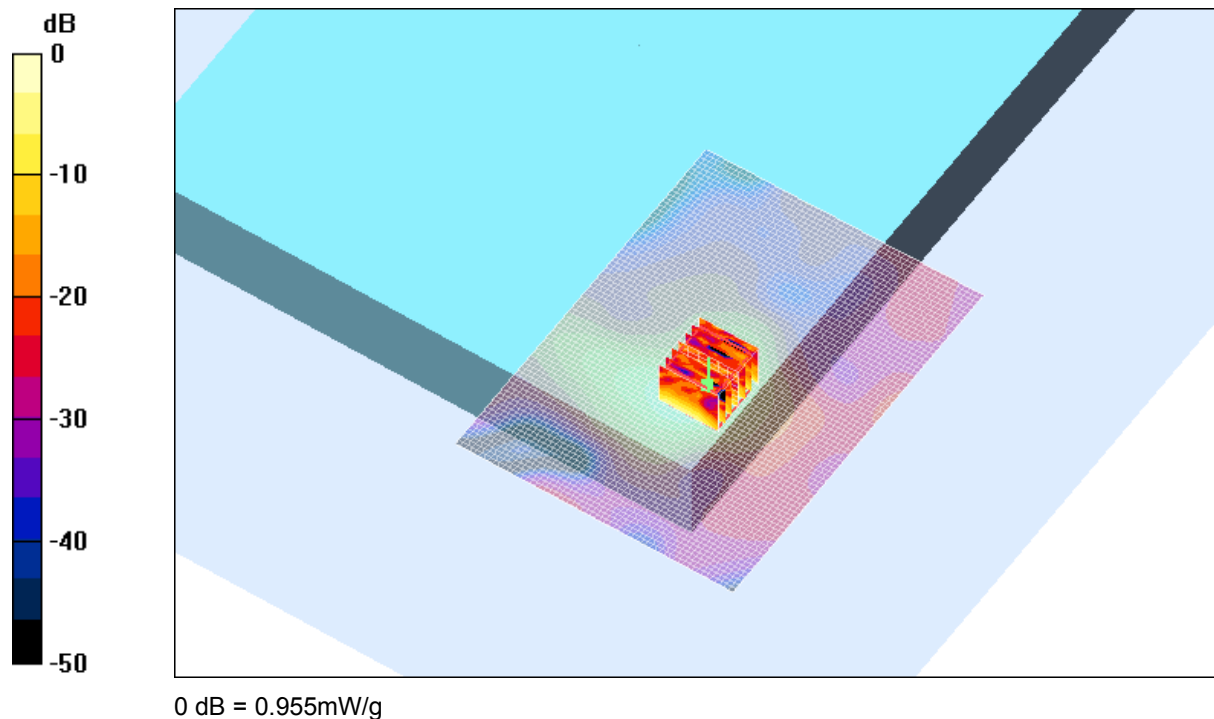
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.9 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.955 mW/g

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.182 mW/g



SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

Test Date: 23 July 2004

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna A Bluetooth Off 23-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

* Communication System: OFDM 5250 MHz; Frequency: 5240 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.4997$; mho/m, $\epsilon_r = 44.5375$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

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

Channel 48 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 16.8 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.869 mW/g

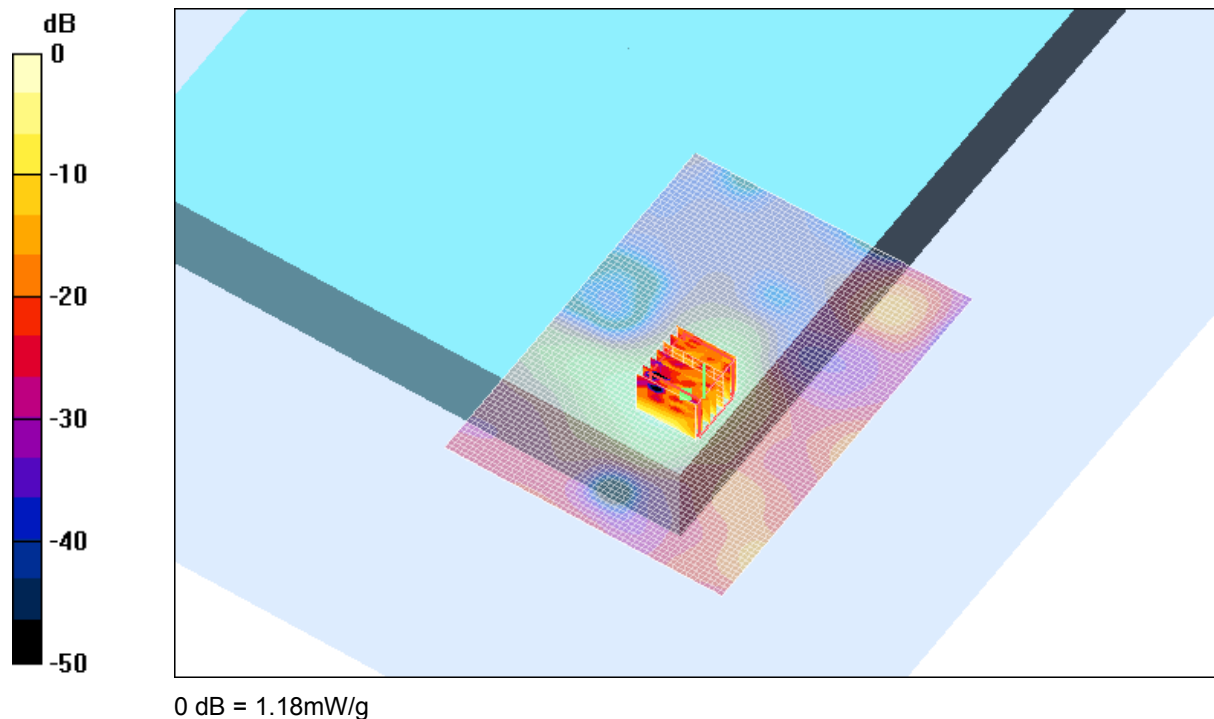
Channel 48 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.8 V/m; Power Drift = 0.1 dB

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

Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.231 mW/g



SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

Test Date: 23 July 2004

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna A Bluetooth Off 23-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 5.64903$; mho/m, $\epsilon_r = 44.2947$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

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

Channel 64 Test 2/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 18.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 1.21 mW/g

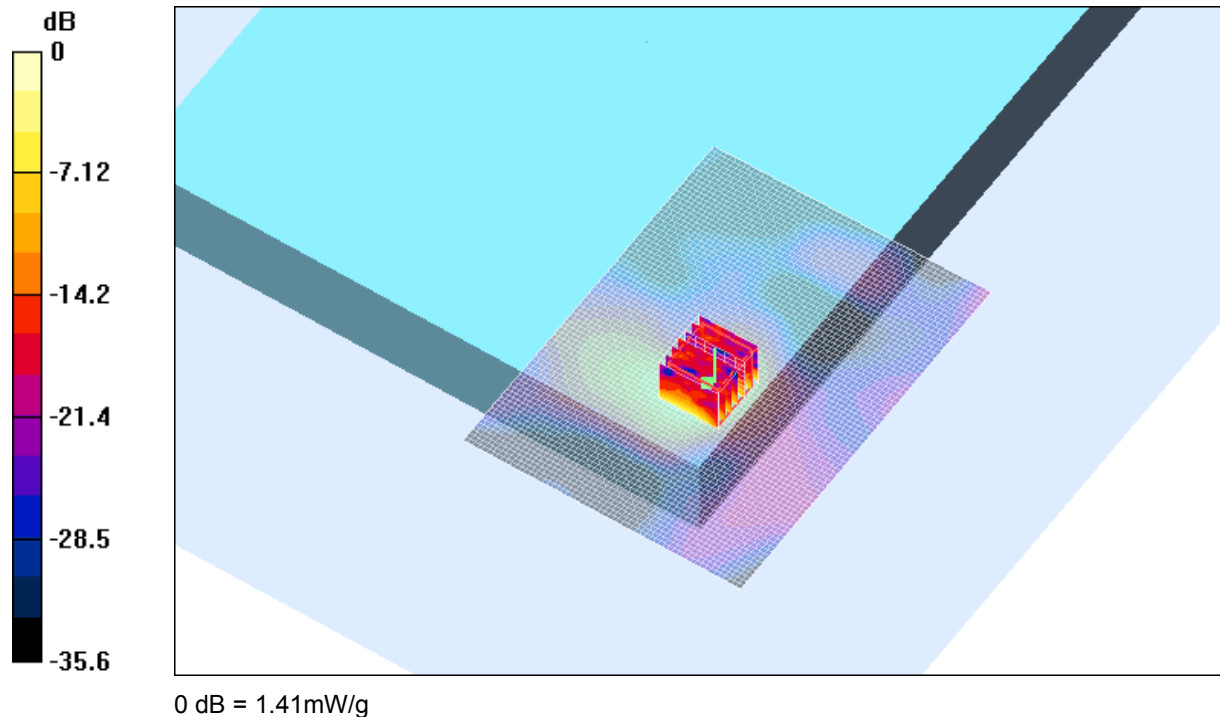
Channel 64 Test 2/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 18.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 1.41 mW/g

Peak SAR (extrapolated) = 4.42 W/kg

SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.285 mW/g



SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

Test Date: 23 July 2004

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth Off 23-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 5.39874$; mho/m, $\epsilon_r = 44.6755$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

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

Channel 36 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 10.8 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 1.41 mW/g

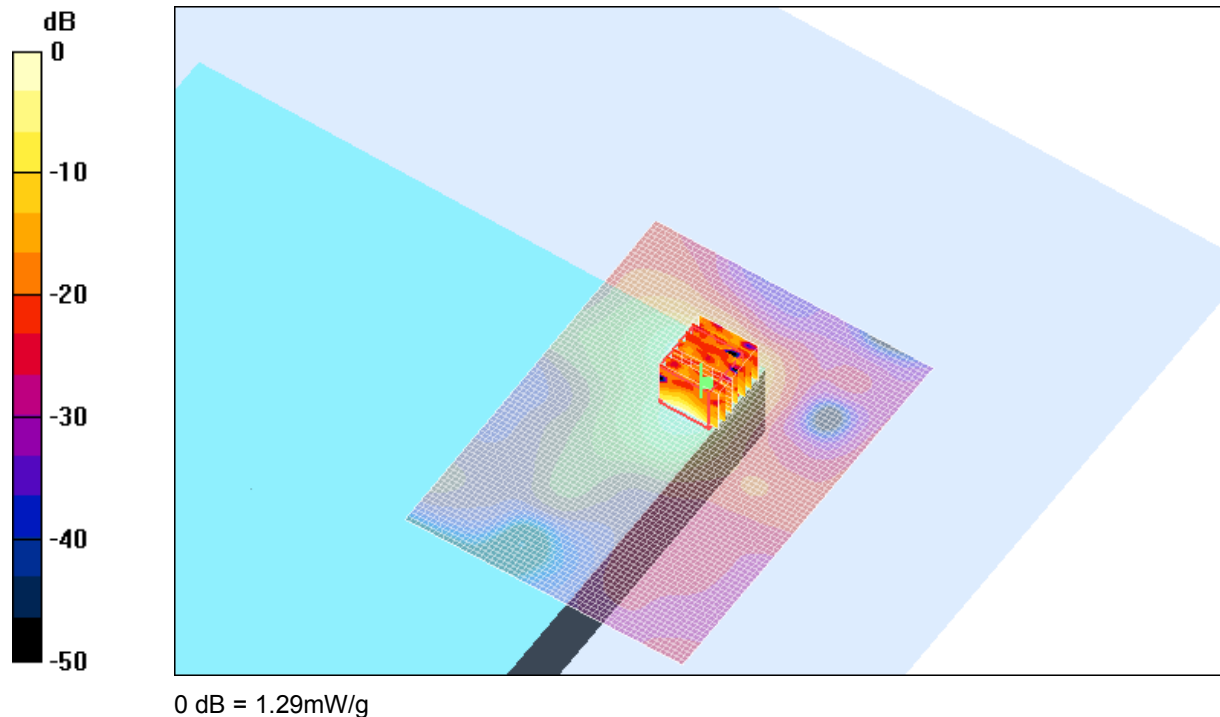
Channel 36 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.8 V/m; Power Drift = -0.3 dB

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

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.817 mW/g; SAR(10 g) = 0.273 mW/g



SAR MEASUREMENT PLOT 12

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

Test Date: 23 July 2004

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth Off 23-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

* Communication System: OFDM 5250 MHz; Frequency: 5240 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.4997$; mho/m, $\epsilon_r = 44.5375$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

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

Channel 48 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 9.15 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 1.13 mW/g

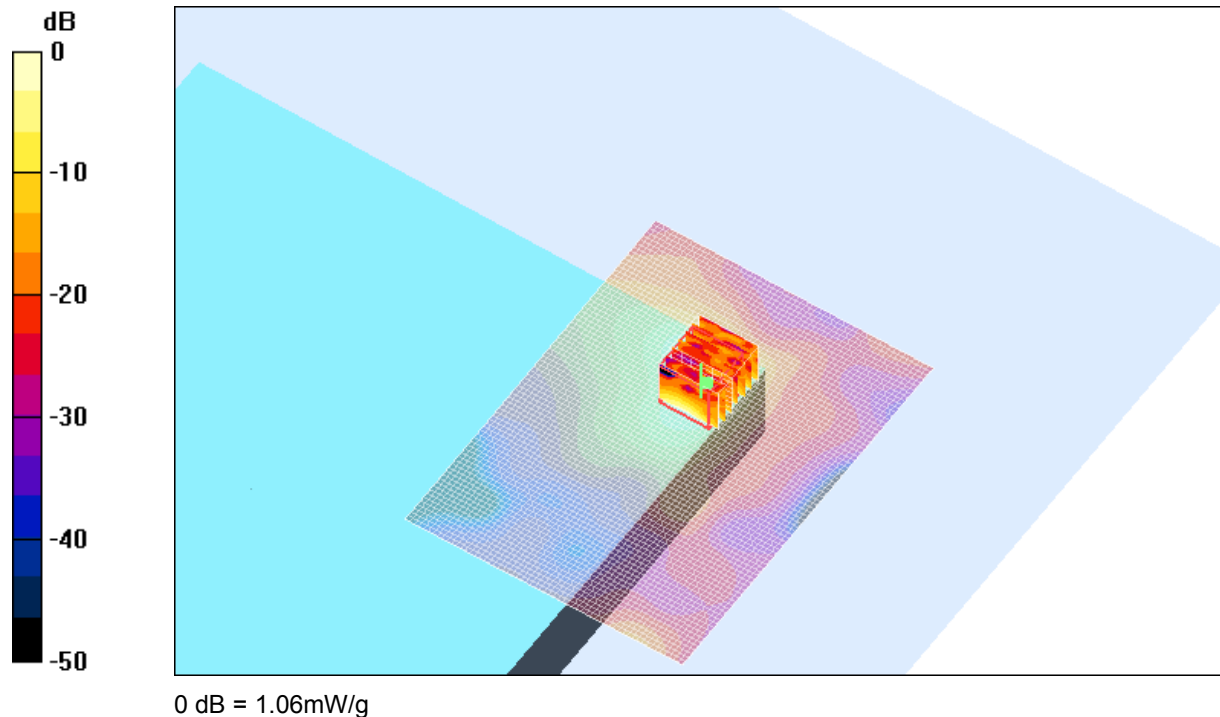
Channel 48 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.15 V/m; Power Drift = -0.2 dB

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

Peak SAR (extrapolated) = 2.7 W/kg

SAR(1 g) = 0.679 mW/g; SAR(10 g) = 0.225 mW/g



SAR MEASUREMENT PLOT 13

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

Test Date: 23 July 2004

File Name: [Arm Held OFDM 5.25 GHz Soriel Antenna B Bluetooth Off 23-07-04.da4](#)

DUT: Fujitsu Tablet Soriel with Atheros 11abg and Bluetooth; Type: WLL 4030-D50; Serial: MAC: 009096-6CAE3F

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

* Medium parameters used: $\sigma = 5.64903$; mho/m, $\epsilon_r = 44.2947$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

- 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

Reference Value = 9.62 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 1.35 mW/g

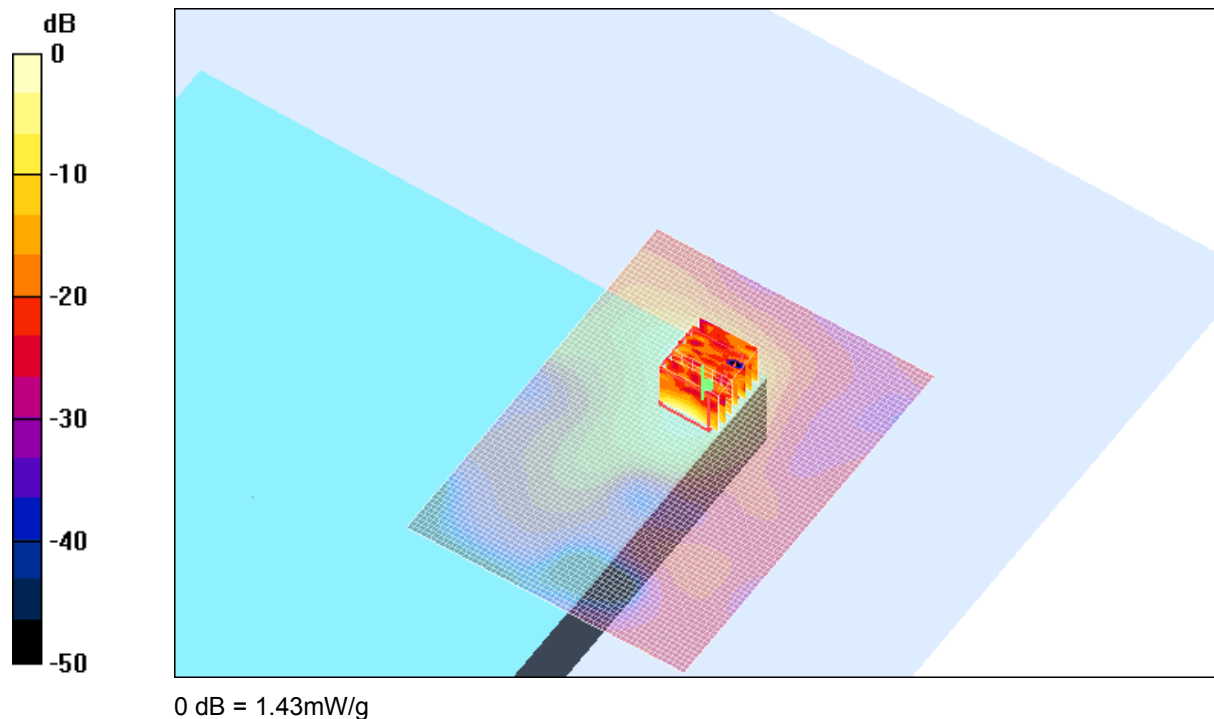
Channel 64 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.62 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 1.43 mW/g

Peak SAR (extrapolated) = 4.01 W/kg

SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.296 mW/g

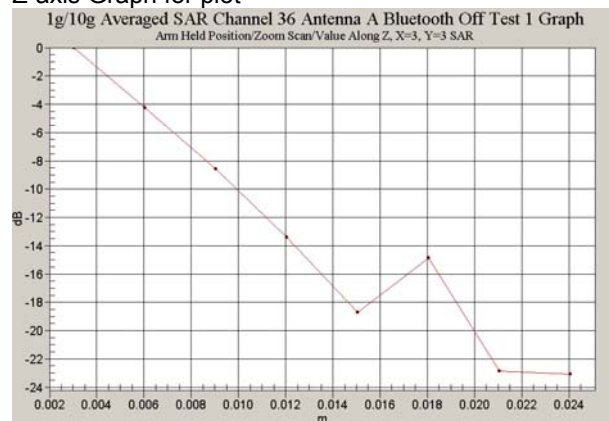


SAR MEASUREMENT PLOT 14

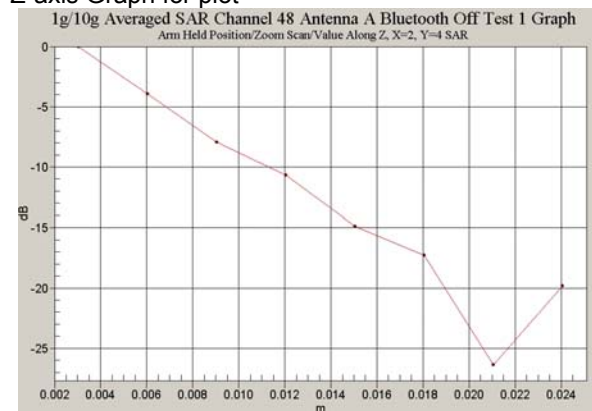
Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

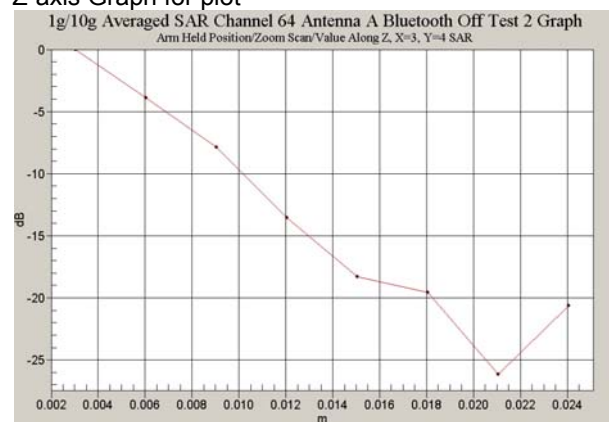
Z-axis Graph for plot



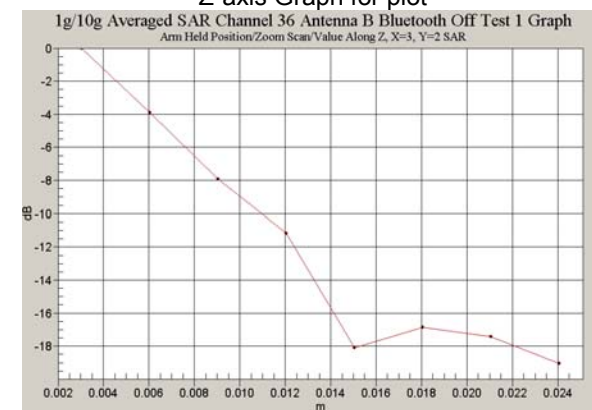
Z-axis Graph for plot



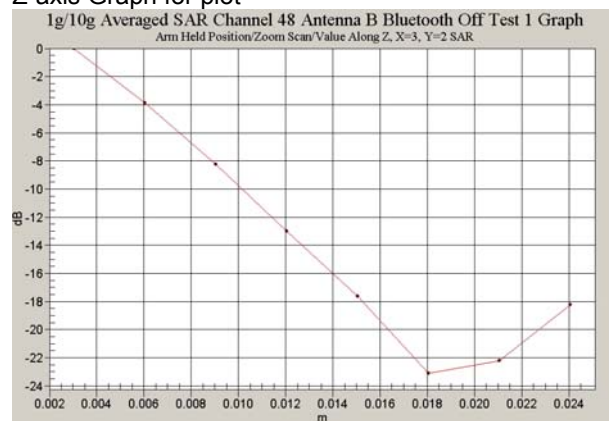
Z-axis Graph for plot



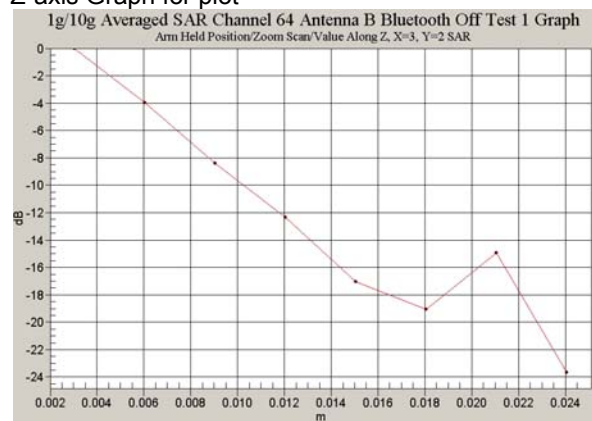
Z-axis Graph for plot



Z-axis Graph for plot



Z-axis Graph for plot



Test Date: 21 July 2004

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 21-07-04.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: $\sigma = 6.2453$; mho/m, $\epsilon_r = 47.3882$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

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

Reference Value = 79.8 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 33.1 mW/g

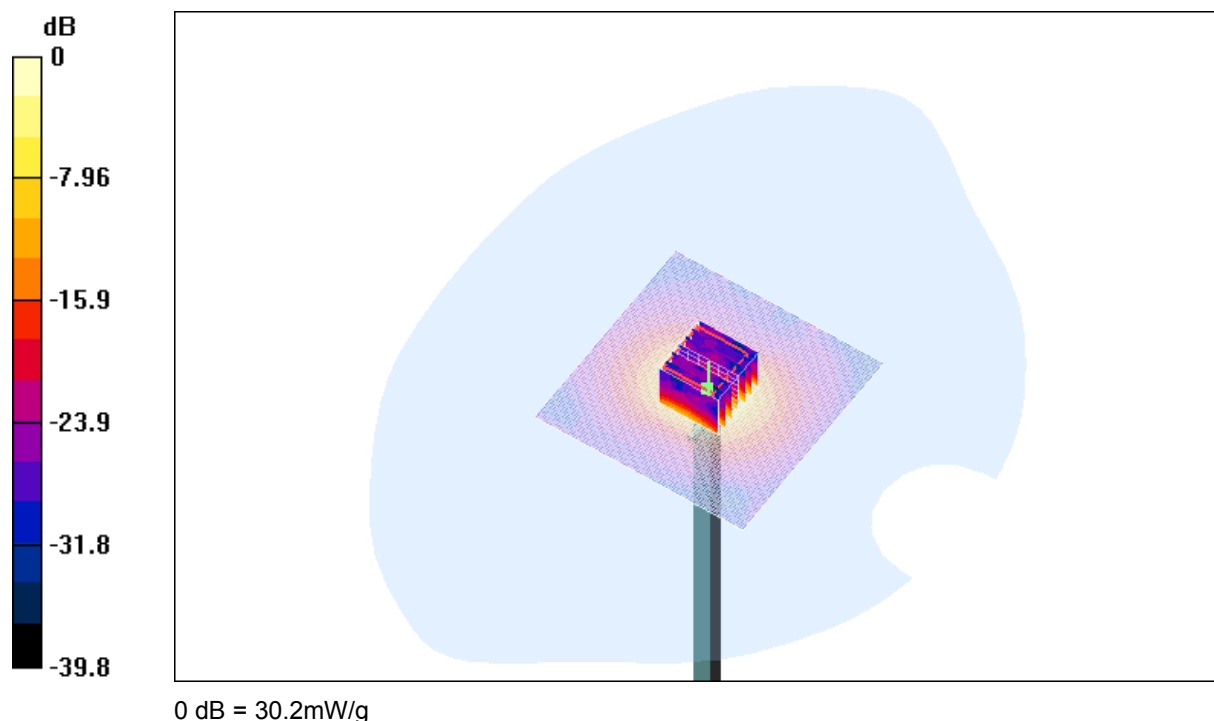
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 79.8 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 30.2 mW/g

Peak SAR (extrapolated) = 95.4 W/kg

SAR(1 g) = 21 mW/g; SAR(10 g) = 5.74 mW/g



SAR MEASUREMENT PLOT 15

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 22 July 2004

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 22-07-04.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: $\sigma = 6.36781$; mho/m, $\epsilon_r = 47.9933$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.8, 1.8, 1.8)

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

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

Reference Value = 79.5 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 33.1 mW/g

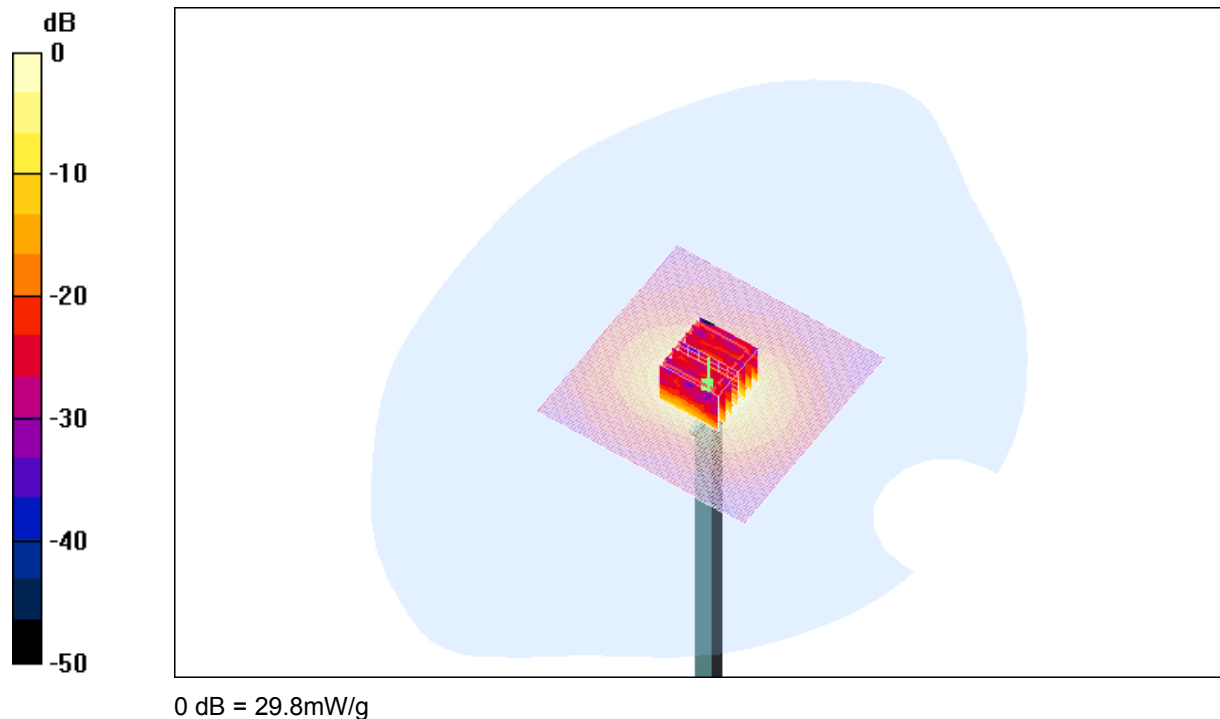
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 79.5 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 29.8 mW/g

Peak SAR (extrapolated) = 94.3 W/kg

SAR(1 g) = 21.1 mW/g; SAR(10 g) = 5.81 mW/g



SAR MEASUREMENT PLOT 16

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
19.8 Degrees Celsius
40 %

Test Date: 23 July 2004

File Name: [Validation 5200MHz \(DAE 442 Probe ES3DV3\) 23-07-04.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: $\sigma = 5.52305$; mho/m, $\epsilon_r = 49.1434$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(2.05, 2.05, 2.05)

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

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

Reference Value = 82.9 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 33 mW/g

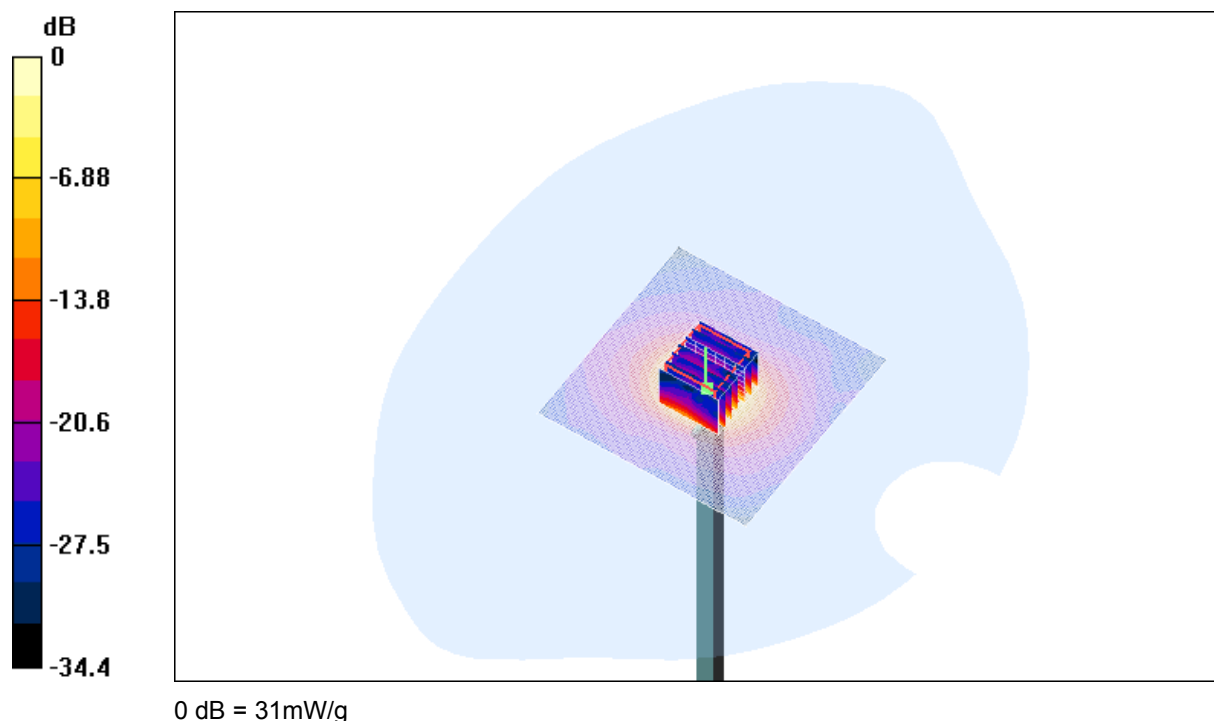
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 82.9 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 31 mW/g

Peak SAR (extrapolated) = 89.2 W/kg

SAR(1 g) = 21.7 mW/g; SAR(10 g) = 5.96 mW/g

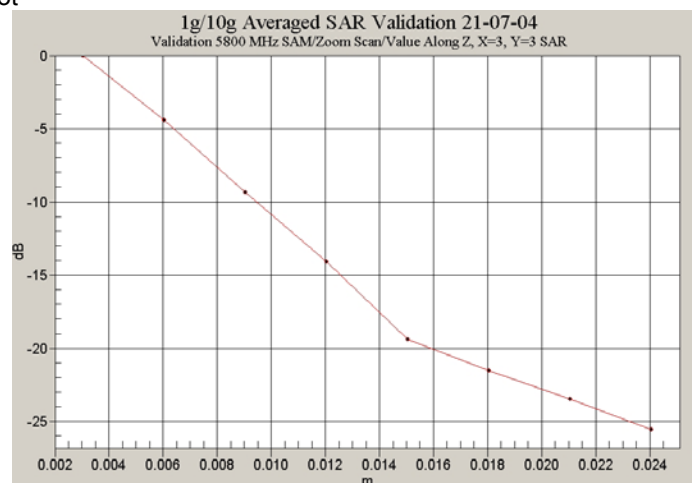


SAR MEASUREMENT PLOT 17

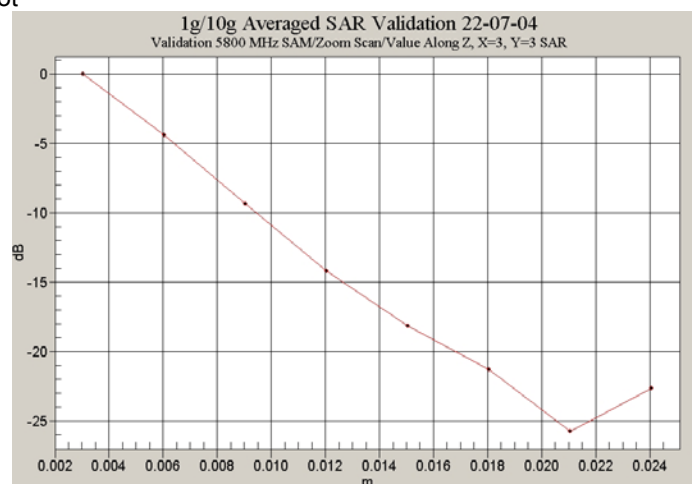
Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.2 Degrees Celsius
36 %

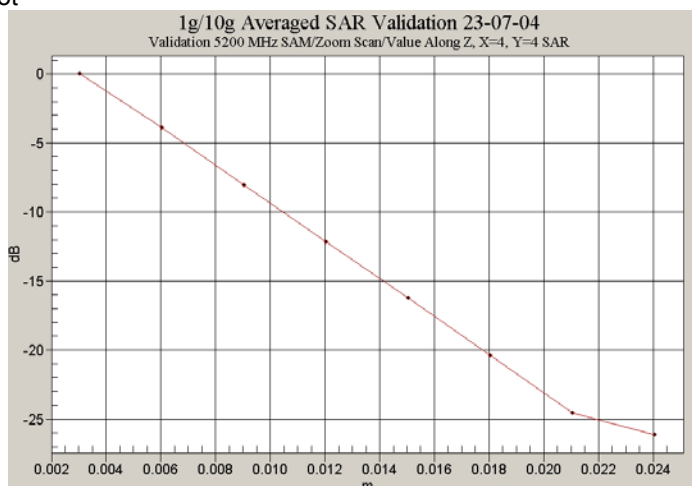
Z-axis Graph for plot



Z-axis Graph for plot



Z-axis Graph for plot



APPENDIX C

SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

- | | |
|--|---------|
| 1. 5GHz E-Field Probe Calibration Sheet | 9 Pages |
| 2. 5200_5800MHz Dipole Calibration Sheet | 6 pages |