

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

Table 24: 5800 MHz Band SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position – Ant A -- Prescan	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#165
Z-Axis graphs	Z-Axis graphs for Plots 2 to 4	
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#165
Z-axis graphs	Z-Axis graphs for Plots 5 to 7	
Plot 8	Edge On Side Position – Ant A	CH#157
Plot 9	Edge On Side Position – Ant B	CH#149
Z-axis graphs	Z-Axis graphs for Plots 8 to 9	
Plot 10	Edge On Side Position – Ant B	CH#157
Plot 11	Edge On Side Position – Ant B	CH#165
Z-axis graphs	Z-Axis graphs for Plots 10 to 11	
	WLAN with Bluetooth On	
Plot 12	Lap Arm Held Position With Blue tooth Ant A	CH#157
Plot 13	Lap Arm Held Position With Blue tooth Ant B	CH#149
Plot 14	Edge On Side Position With Blue tooth Ant B	CH#149
Z-axis graphs	Z-Axis graphs for Plots 14 to 16	
Plot 15	Tablet Position With Blue tooth Ant A - Prescan	CH#157
Plot 16	Lap Arm Held Position With Bluetooth – Ant B -- Prescan	CH#157

Table 25: 5800 MHz Band SAR Measurement Plot Numbers

Plot 17	Lap Arm Held Position – Ant A	CH#100
Plot 18	Lap Arm Held Position – Ant A	CH#120
Plot 19	Lap Arm Held Position – Ant A	CH#140
Z-axis graphs	Z-axis graphs for Plots 17 – 19	
Plot 20	Lap Arm Held Position – Ant B	CH#100
Plot 21	Lap Arm Held Position – Ant B	CH#120
Plot 22	Lap Arm Held Position – Ant B	CH#140
Z-axis graphs	Z-axis graphs for Plots 20 – 21	
Plot 23	Edge On Side Position – Ant B	CH#100
Plot 24	Edge On Side Position – Ant B	CH#120
Plot 25	Edge On Side Position – Ant B	CH#140
Z-axis graphs	Z-axis graphs for Plots 23 – 25	
	WLAN with Bluetooth On	
Plot 26	Lap Arm Held Position With Blue tooth Ant A	CH#140
Plot 27	Edge On Side Position With Blue tooth Ant B	CH#140
Z-axis graphs	Z-axis graphs for Plots 26 – 27	

Table 26: 5200 MHz Band SAR Measurement Plot Numbers

Plot 28	Lap Arm Held Position – Ant A	CH#36
Plot 29	Lap Arm Held Position – Ant A	CH#52
Plot 30	Lap Arm Held Position – Ant A	CH#64
Z-axis graphs	Z-Axis graphs for Plots 28 to 30	
Plot 31	Lap Arm Held Position – Ant B	CH#36
Plot 32	Lap Arm Held Position – Ant B	CH#52
Plot 33	Lap Arm Held Position – Ant B	CH#64
Z-axis graphs	Z-Axis graphs for Plots 31 to 33	
Plot 34	Edge On Side Position – Ant B	CH#36
Plot 35	Edge On Side Position – Ant B	CH#52

Plot 36	Edge On Side Position – Ant B	CH#64
Z-axis graphs	Z-Axis graphs for Plots 34 to 36 WLAN with Bluetooth On	
Plot 37	Lap Arm Held Position With Blue tooth Ant A	CH#64
Plot 38	Edge On Side Position With Blue tooth Ant B	CH#36
Z-axis graphs	Z-Axis graphs for Plots 37 to 38	

Table 27: 2450MHz Validation Plot

Plot 39	Validation 5200 MHz 7 th August 2006
Plot 40	Validation 5800 MHz 1 st August 2006
Z-Axis Graphs	Z-Axis graphs for Plots 39 & 40
Plot 41	Validation 5800 MHz 2 nd August 2006
Plot 42	Validation 5800 MHz 3 rd August 2006
Plot 43	Validation 5800 MHz 4 th August 2006
Z-Axis Graphs	Z-Axis graphs for Plots 41 & 43

Test Date: 01 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna A Bluetooth Off Prescan 01-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

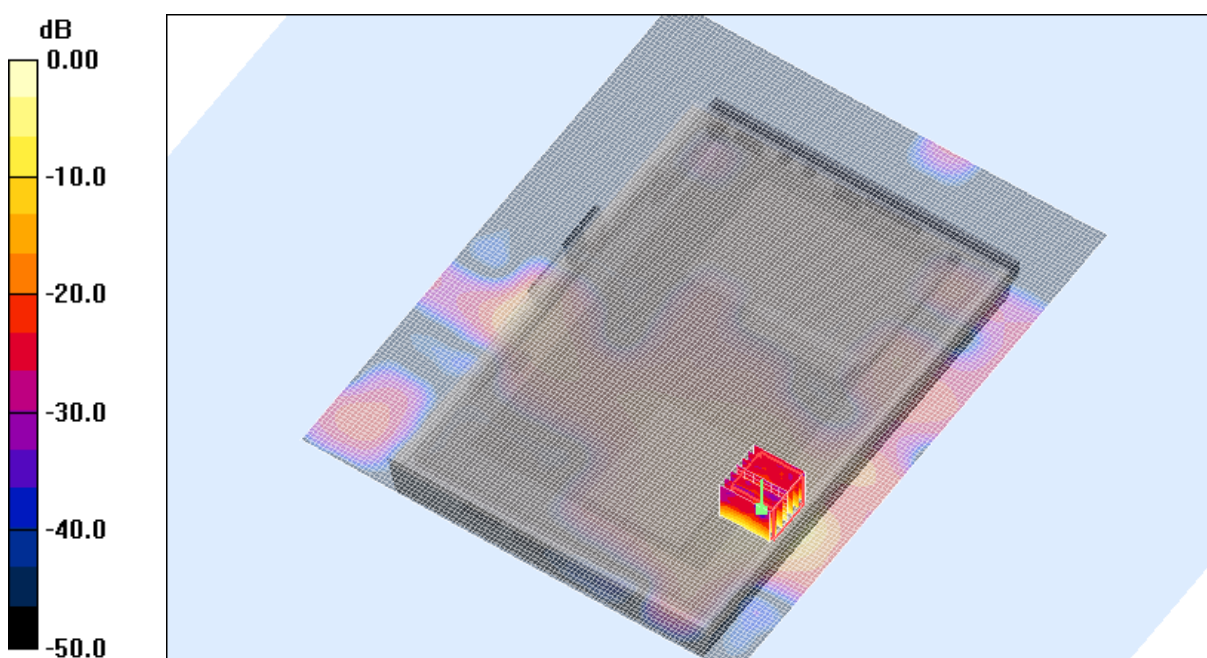
* Medium parameters used: $\sigma = 6.45822$ mho/m, $\epsilon_r = 46.1503$; $\rho = 1000$ kg/m³

- 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 (111x141x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 3.74 mW/g



0 dB = 3.80mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

19.4 Degrees Celsius
19.2 Degrees Celsius
43.0 %

Test Date: 02 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna A Bluetooth Off 02-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

* Medium parameters used: $\sigma = 6.40231$ mho/m, $\epsilon_r = 46.1801$; $\rho = 1000$ 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 (101x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 3.05 mW/g

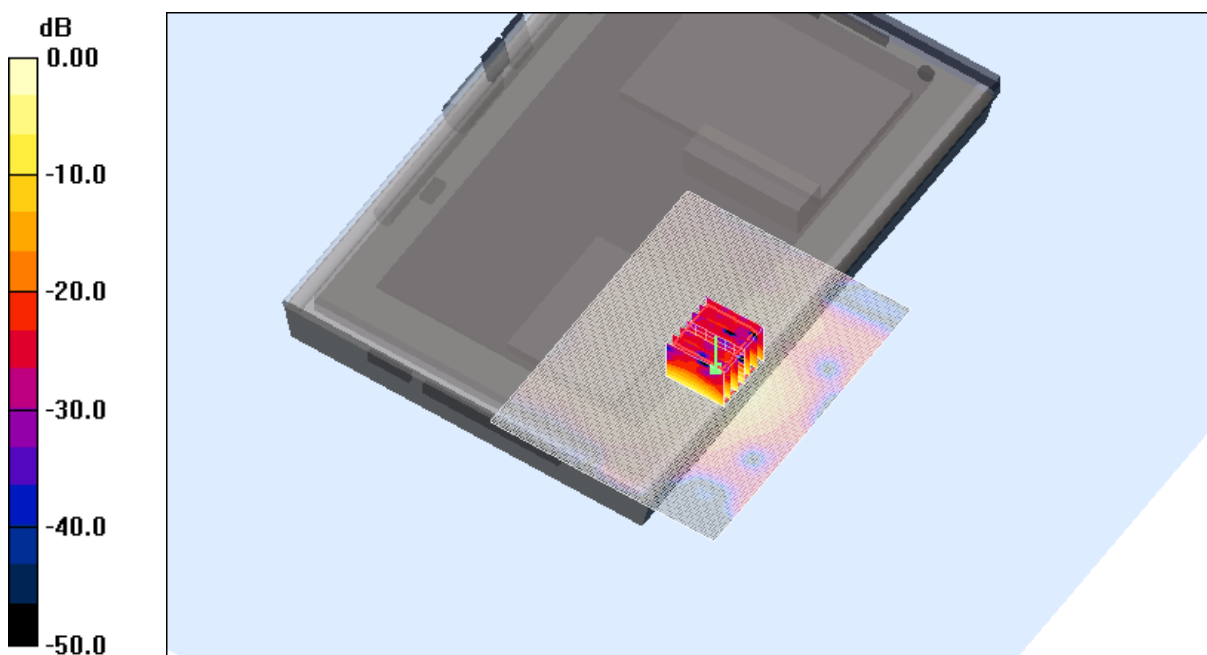
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13.8 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 6.40 W/kg

SAR(1 g) = 1.52 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 3.14 mW/g



0 dB = 3.14mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

19.7 Degrees Celsius
19.4 Degrees Celsius
37.0 %

Test Date: 01 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna A Bluetooth Off 01-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

* Medium parameters used: $\sigma = 6.45822$ mho/m, $\epsilon_r = 46.1503$; $\rho = 1000$ 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 (101x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 3.06 mW/g

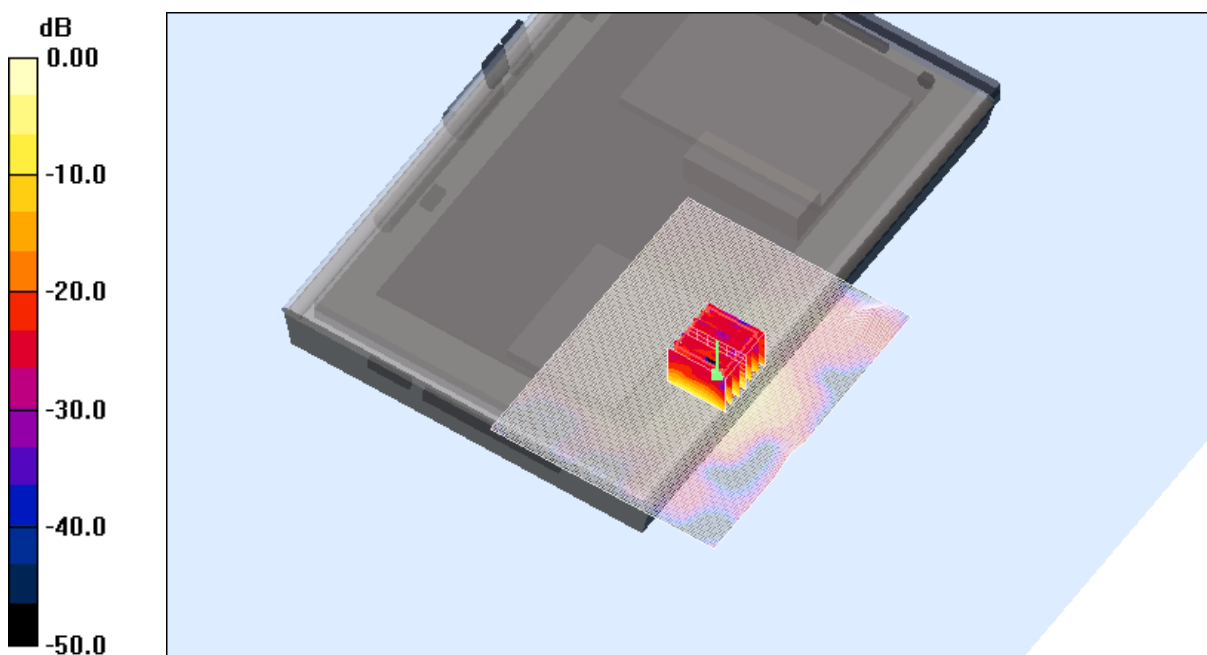
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.2 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 6.77 W/kg

SAR(1 g) = 1.57 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (measured) = 3.26 mW/g



0 dB = 3.26mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

19.4 Degrees Celsius
19.2 Degrees Celsius
43.0 %

Test Date: 02 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna A Bluetooth Off 02-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

* Medium parameters used: $\sigma = 6.52235$ mho/m, $\epsilon_r = 45.8729$; $\rho = 1000$ 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 (101x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.32 mW/g

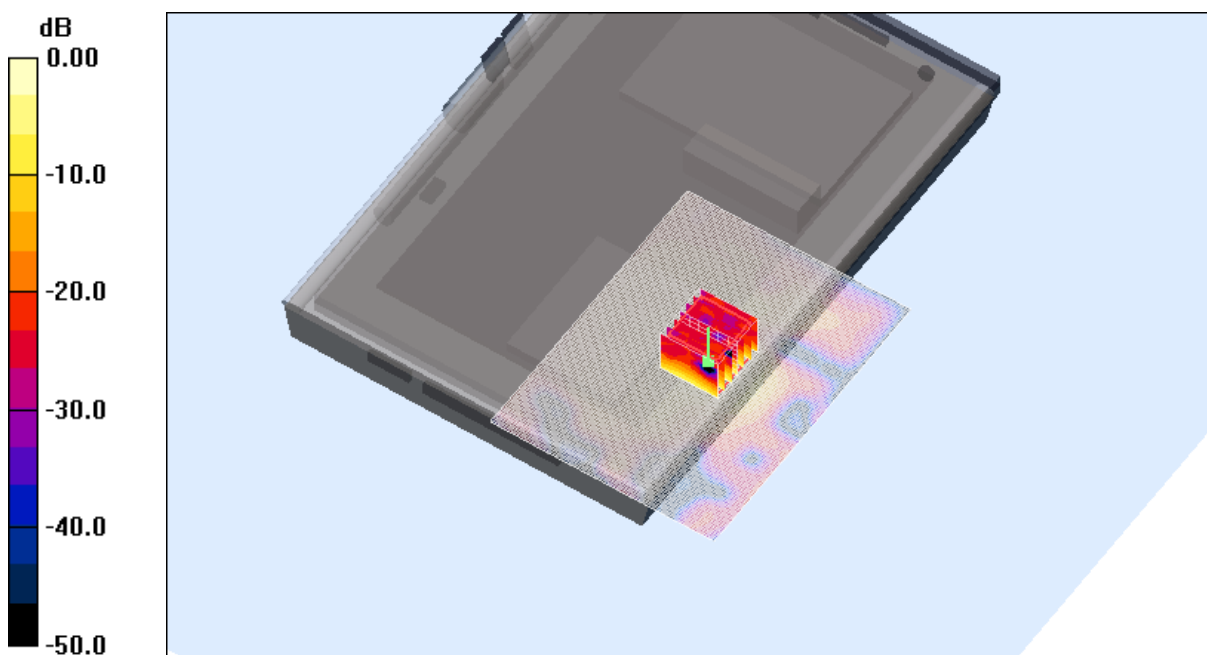
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.1 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 4.99 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.360 mW/g

Maximum value of SAR (measured) = 2.38 mW/g



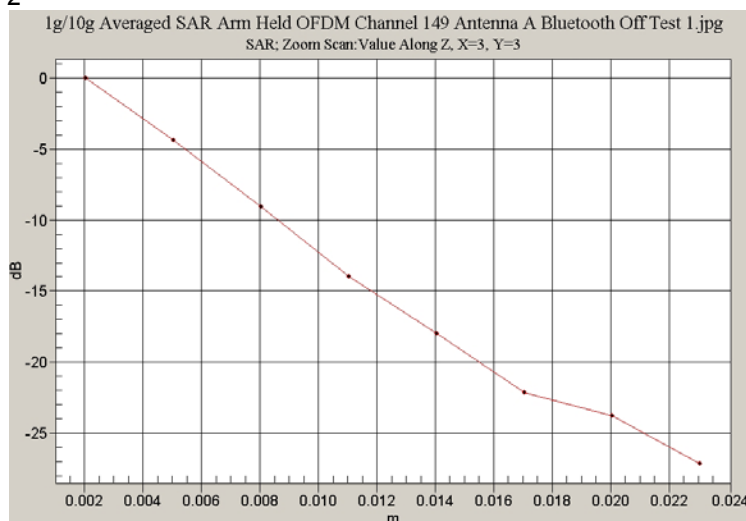
0 dB = 2.38mW/g

SAR MEASUREMENT PLOT 4

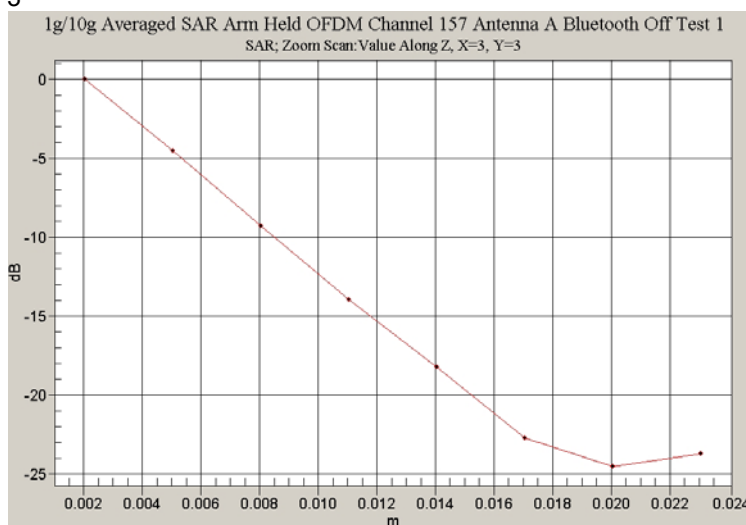
Ambient Temperature
Liquid Temperature
Humidity

19.7 Degrees Celsius
19.4 Degrees Celsius
37.0 %

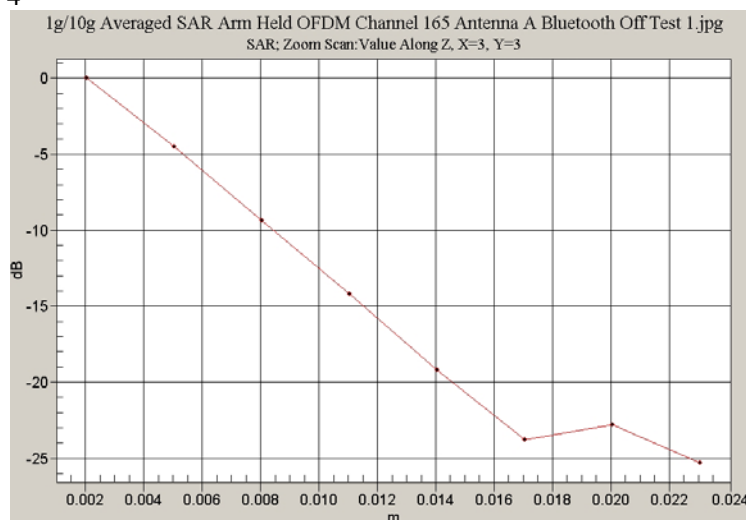
Z-Axis Graph for Plot 2



Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Test Date: 02 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off 02-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

* Medium parameters used: $\sigma = 6.40231$ mho/m, $\epsilon_r = 46.1801$; $\rho = 1000$ 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 (101x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.89 mW/g

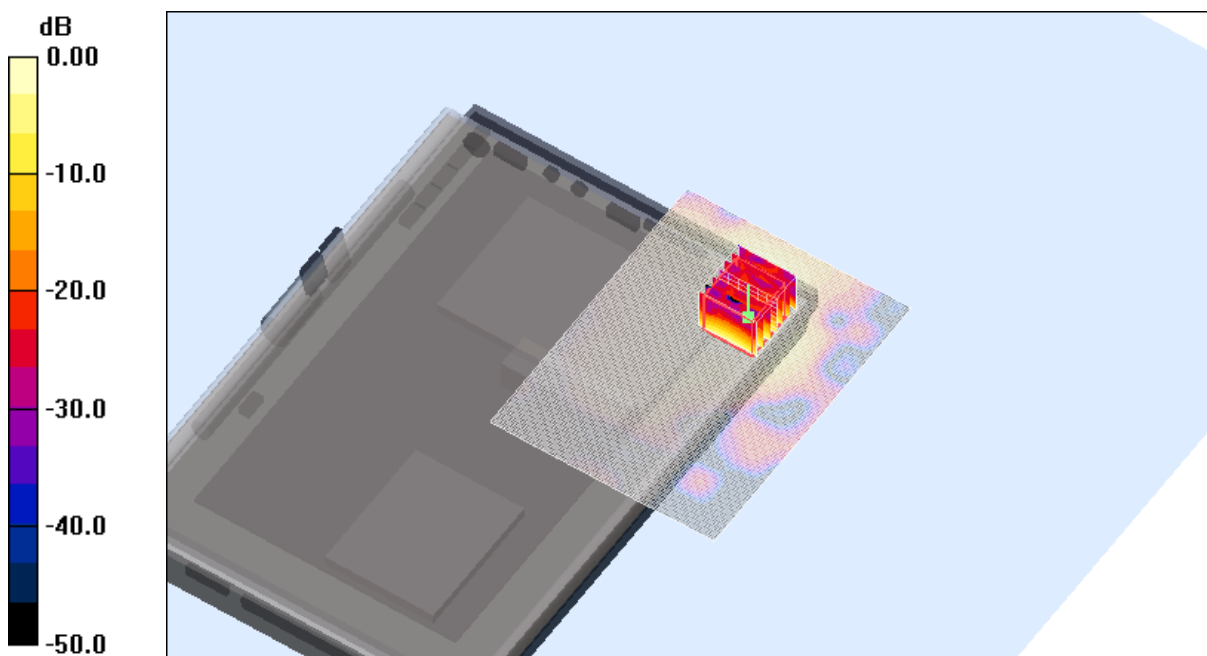
Channel 149 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.6 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 6.48 W/kg

SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.519 mW/g

Maximum value of SAR (measured) = 3.11 mW/g



0 dB = 3.11mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

19.7 Degrees Celsius
19.4 Degrees Celsius
37.0 %

Test Date: 02 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off 02-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

* Medium parameters used: $\sigma = 6.47242$ mho/m, $\epsilon_r = 46.0717$; $\rho = 1000$ 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 (101x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.36 mW/g

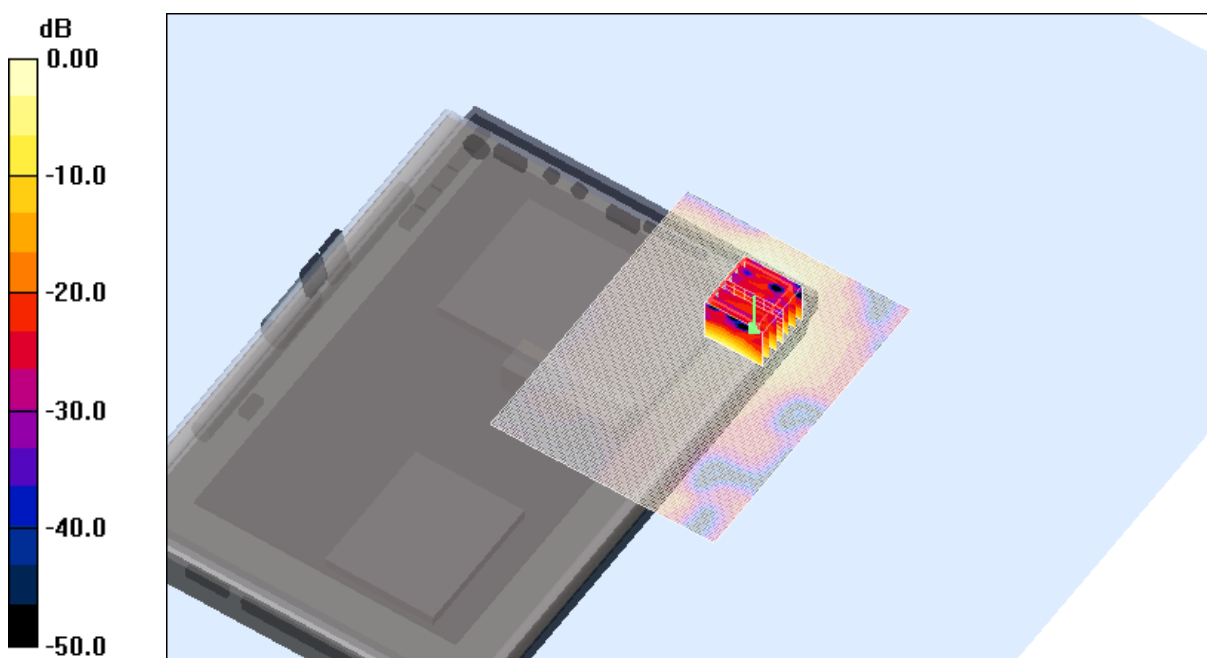
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.7 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 5.34 W/kg

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.402 mW/g

Maximum value of SAR (measured) = 2.48 mW/g



0 dB = 2.48mW/g

SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

19.7 Degrees Celsius
19.4 Degrees Celsius
37.0 %

Test Date: 02 August 2006

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth Off 02-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

* Medium parameters used: $\sigma = 6.52235$ mho/m, $\epsilon_r = 45.8729$; $\rho = 1000$ 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 (101x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.76 mW/g

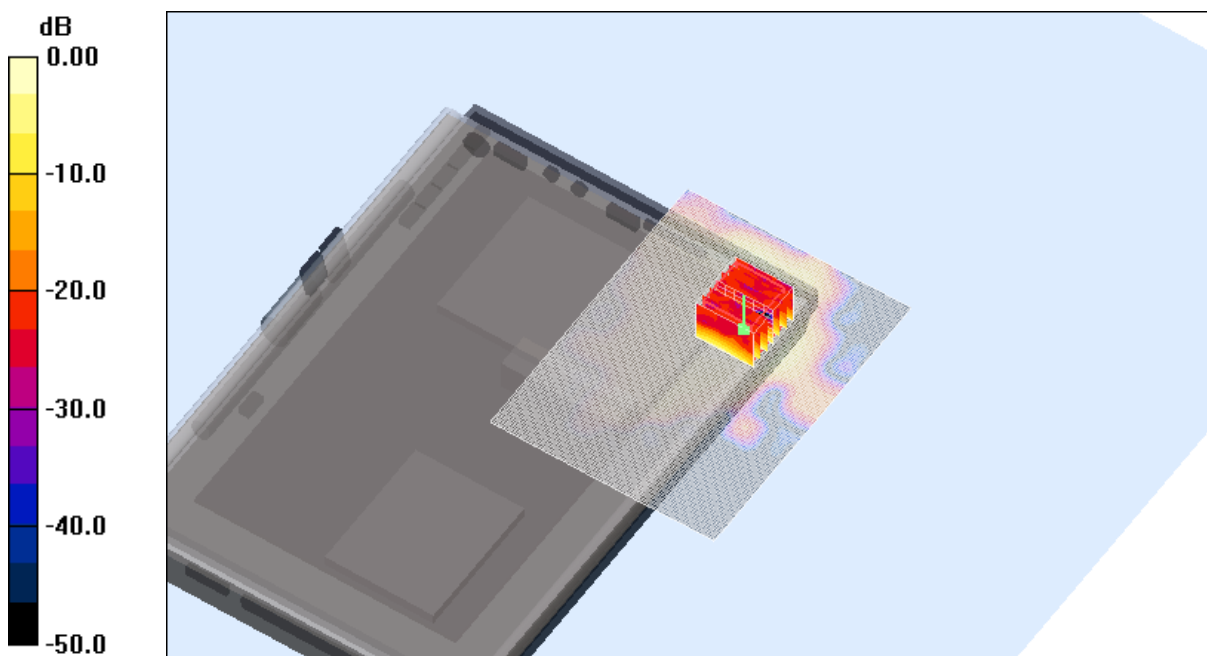
Channel 165 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.7 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 4.07 W/kg

SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.314 mW/g

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



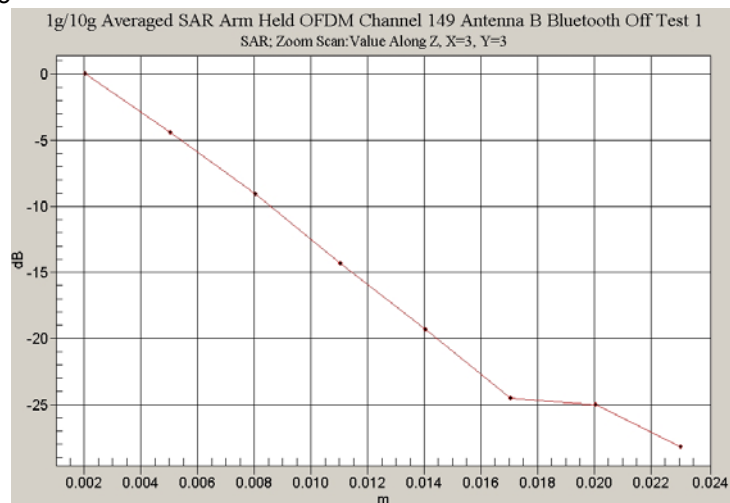
0 dB = 1.89mW/g

SAR MEASUREMENT PLOT 7

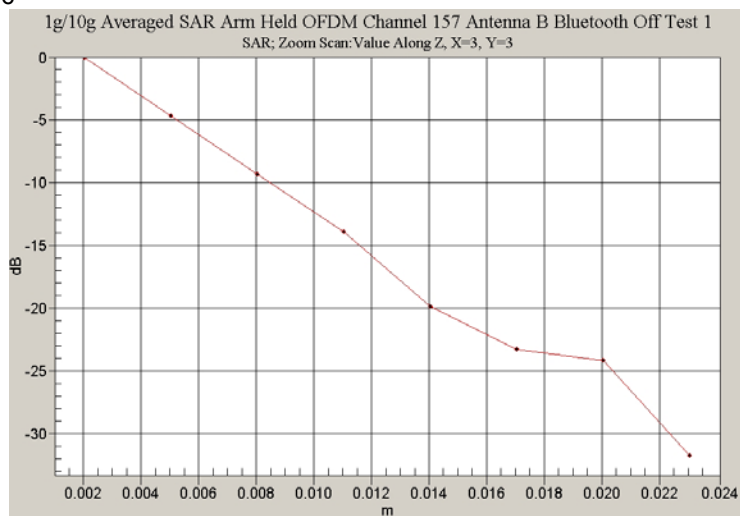
Ambient Temperature
Liquid Temperature
Humidity

19.7 Degrees Celsius
19.4 Degrees Celsius
37.0 %

Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



Z-Axis Graph for Plot 7

