

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 20: 5200 MHz Band SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position – Ant Aux	CH#36
Plot 2	Lap Arm Held Position – Ant Aux	CH#52
Plot 3	Lap Arm Held Position – Ant Aux	CH#64
Z-Axis graphs	Z-Axis graphs for Plots 1 to 3	
Plot 4	Tablet Position – Ant Main	CH#36
Plot 5	Tablet Position – Ant Main	CH#52
Plot 6	Tablet Position – Ant Main	CH#64
Z-Axis graphs	Z-Axis graphs for Plots 4 to 6	
Plot 7	Edge On Position – Ant Aux	CH#36
Plot 8	Edge On Position – Ant Aux	CH#52
Plot 9	Edge On Position – Ant Aux	CH#64
Z-Axis graphs	Z-Axis graphs for Plots 7 to 9	
Plot 10	Edge On Position – Ant Main	CH#36
Plot 11	Edge On Position – Ant Main	CH#52
Plot 12	Edge On Position – Ant Main	CH#64
Z-Axis graphs	Z-Axis graphs for Plots 10 to 12	
Plot 13	Edge On with Bluetooth	CH#52

Table 21: 5200MHz Validation Plot

Plot 14	Validation 5200 MHz 26 th August 2006
Z-Axis graphs	Z-Axis graphs for Plots 13 to 14

Test Date: 26 August 2006

File Name: [Arm Held OFDM 5.2 GHz Antenna Aux Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.24705$ mho/m, $\epsilon_r = 46.6769$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 036 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.702 mW/g

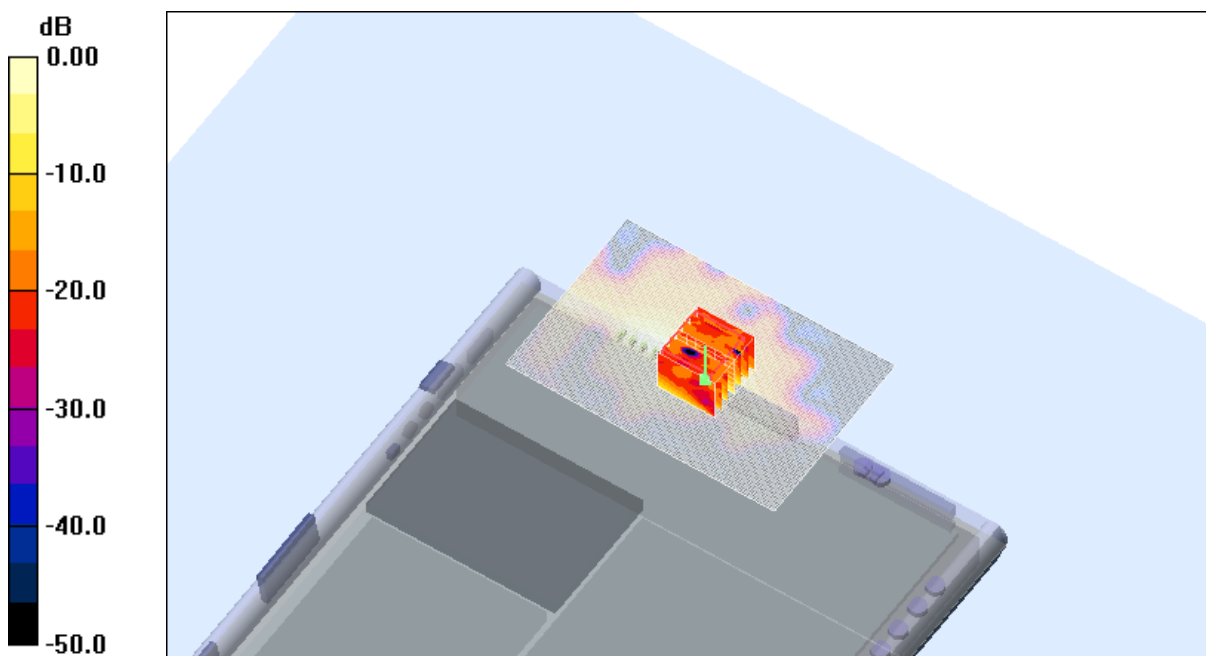
Channel 036 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.62 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.942 mW/g



0 dB = 0.942mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Test Date: 26 August 2006

File Name: [Arm Held OFDM 5.2 GHz Antenna Aux Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.42628$ mho/m, $\epsilon_r = 46.4873$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 052 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

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

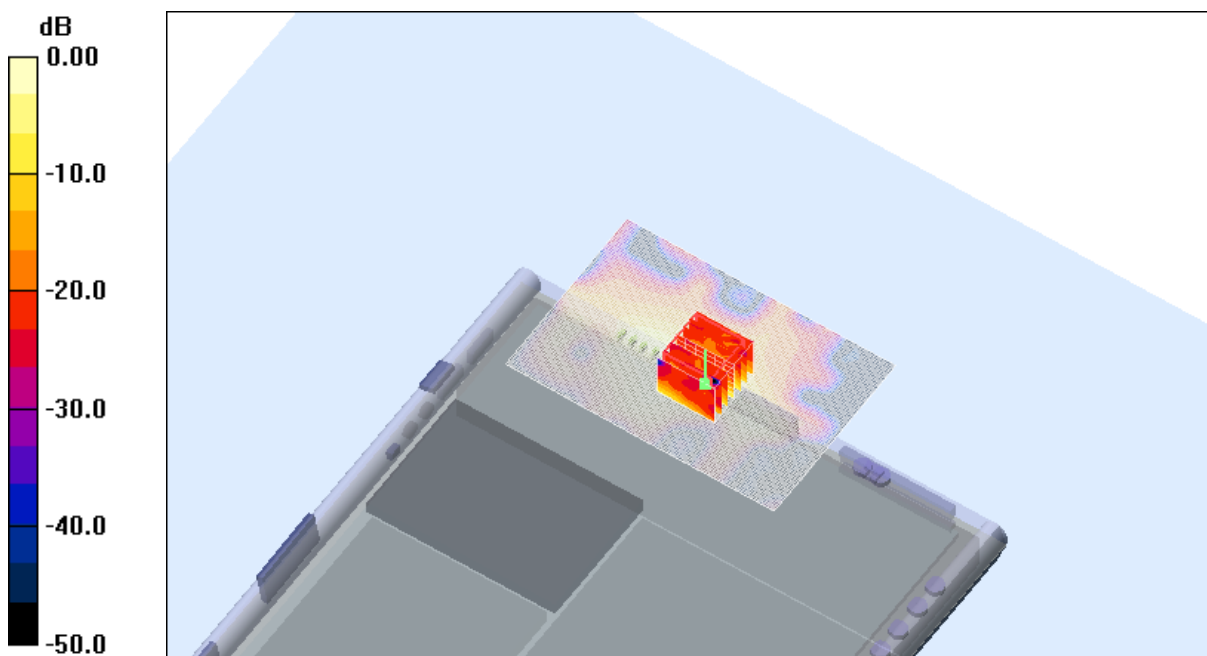
Channel 052 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 11.1 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.183 mW/g

Maximum value of SAR (measured) = 1.50 mW/g



0 dB = 1.50mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Test Date: 26 August 2006

File Name: [Arm Held OFDM 5.2 GHz Antenna Aux Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.53862$ mho/m, $\epsilon_r = 46.3195$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 064 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.34 mW/g

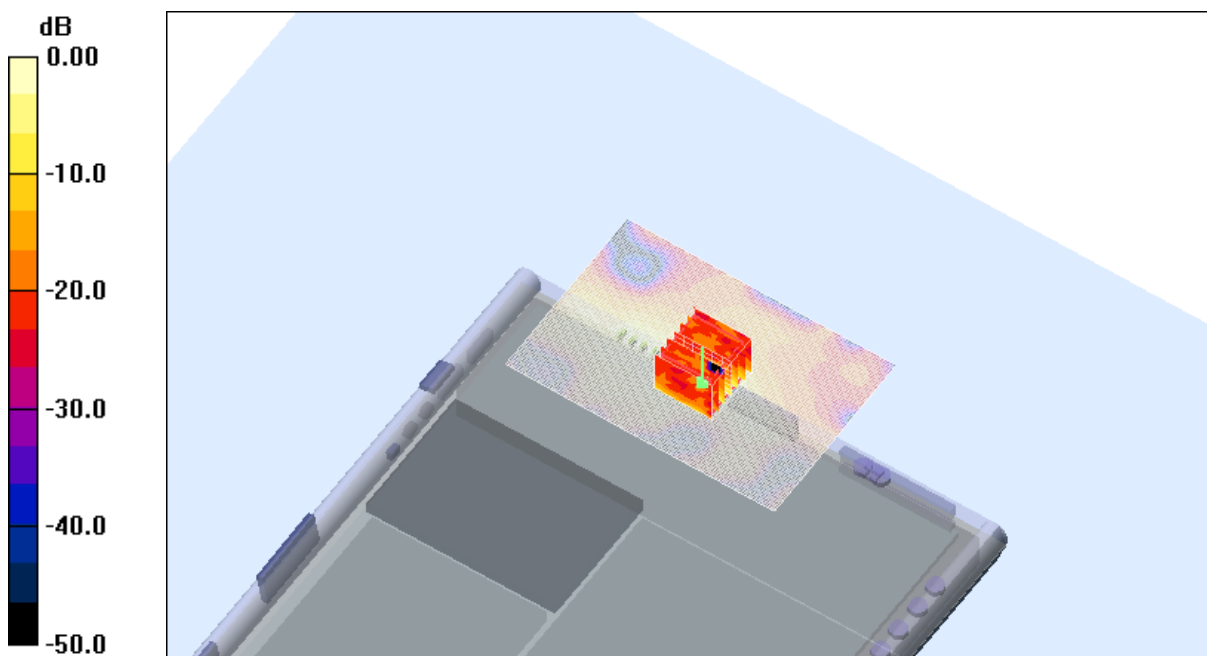
Channel 064 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 11.0 V/m; Power Drift = -0.300 dB

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



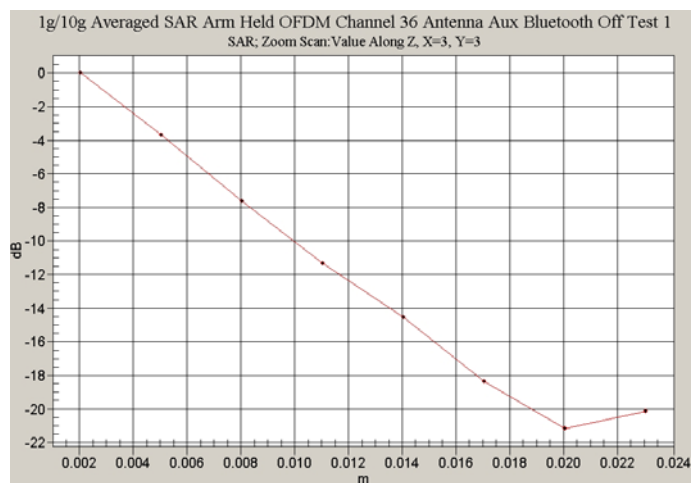
0 dB = 1.03mW/g

SAR MEASUREMENT PLOT 3

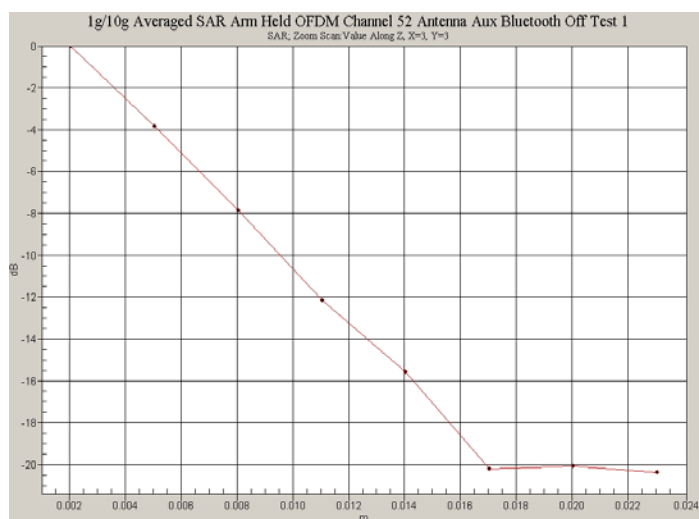
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

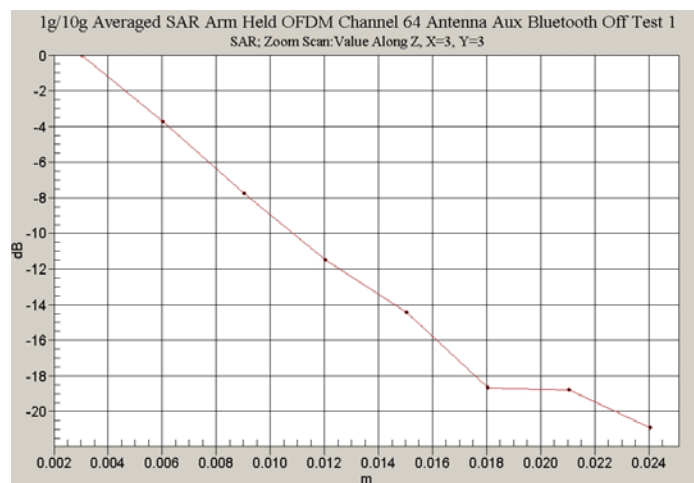
Z-Axis Graph for Plot 1



Z-Axis Graph for Plot 2



Z-Axis Graph for Plot 3



Test Date: 26 August 2006

File Name: [Tablet OFDM 5.2 GHz Ant Main Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.24705$ mho/m, $\epsilon_r = 46.6769$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 036 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

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

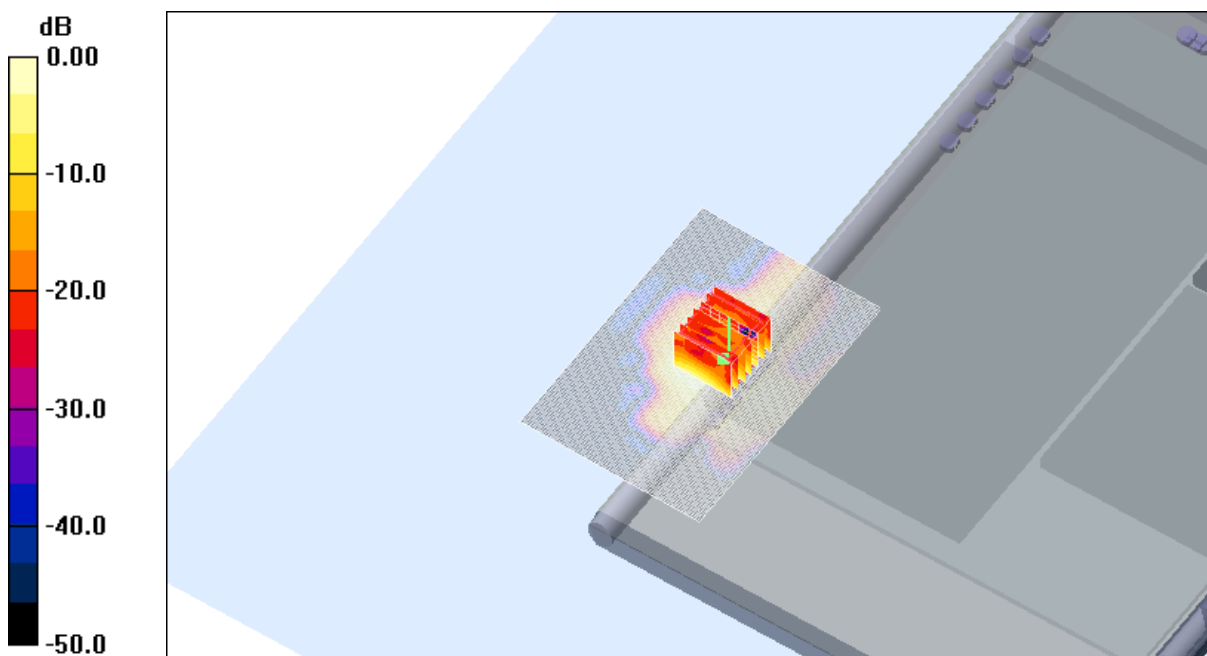
Channel 036 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 12.4 V/m; Power Drift = 0.246 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.600 mW/g; SAR(10 g) = 0.213 mW/g

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



SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Test Date: 26 August 2006

File Name: [Tablet OFDM 5.2 GHz Ant Main Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.42628$ mho/m, $\epsilon_r = 46.4873$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 052 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.56 mW/g

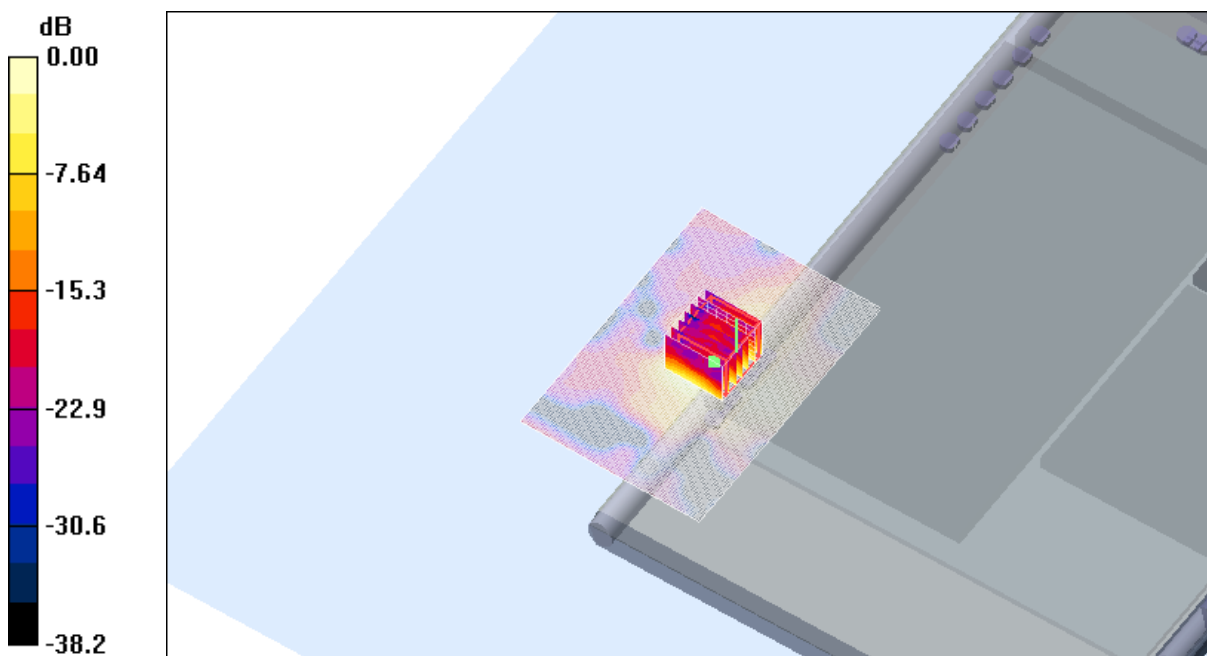
Channel 052 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.1 V/m; Power Drift = -0.251 dB

Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.273 mW/g

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



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Test Date: 26 August 2006

File Name: [Tablet OFDM 5.2 GHz Ant Main Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.53862$ mho/m, $\epsilon_r = 46.3195$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 064 Test/Area Scan (121x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.36 mW/g

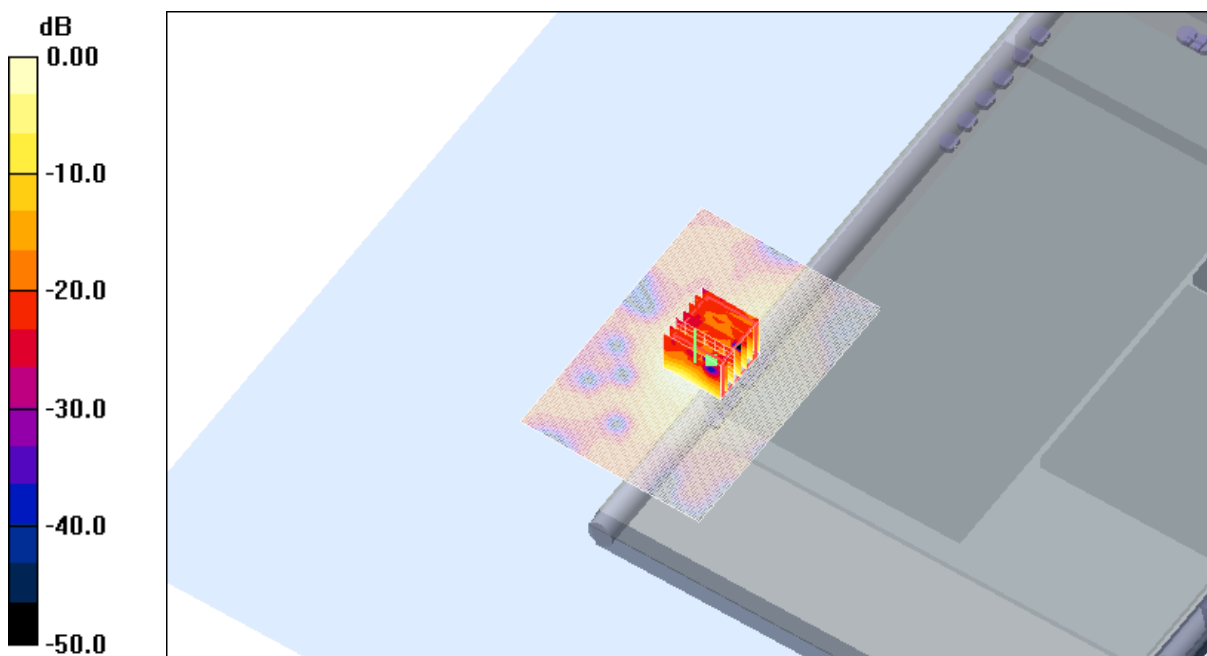
Channel 064 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.5 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.239 mW/g

Maximum value of SAR (measured) = 1.22 mW/g

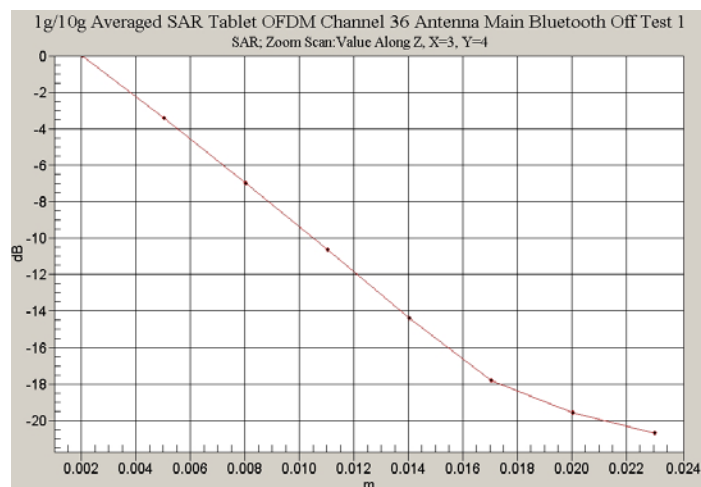


SAR MEASUREMENT PLOT 6

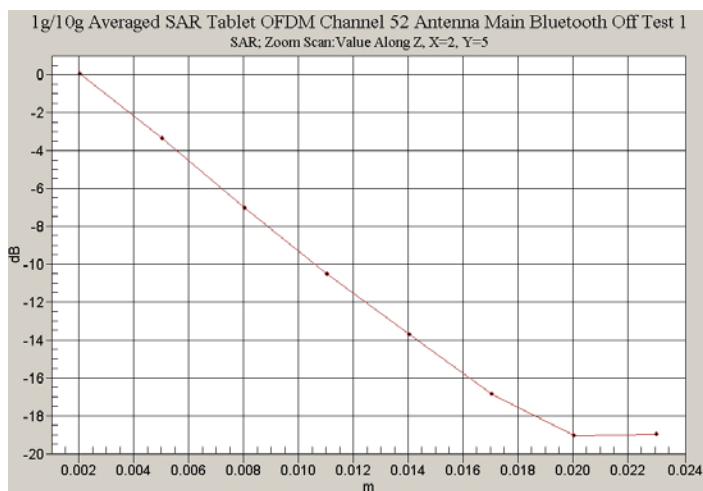
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

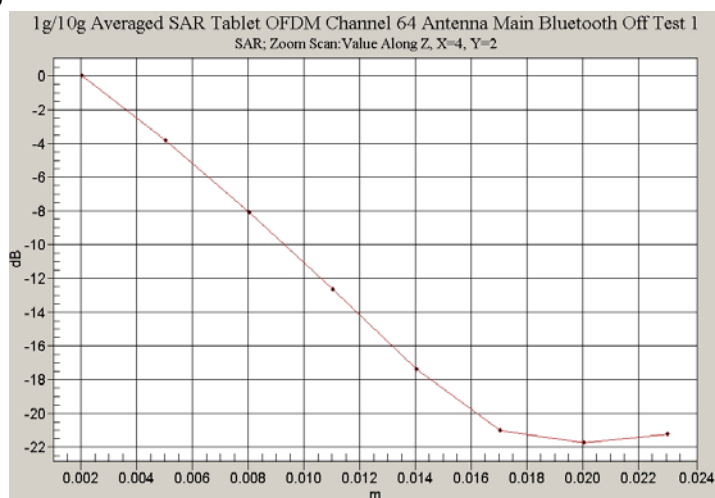
Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



Test Date: 26 August 2006

File Name: [Edge On OFDM 5.2 GHz Antenna Aux Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.24705$ mho/m, $\epsilon_r = 46.6769$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 036 Test/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.85 mW/g

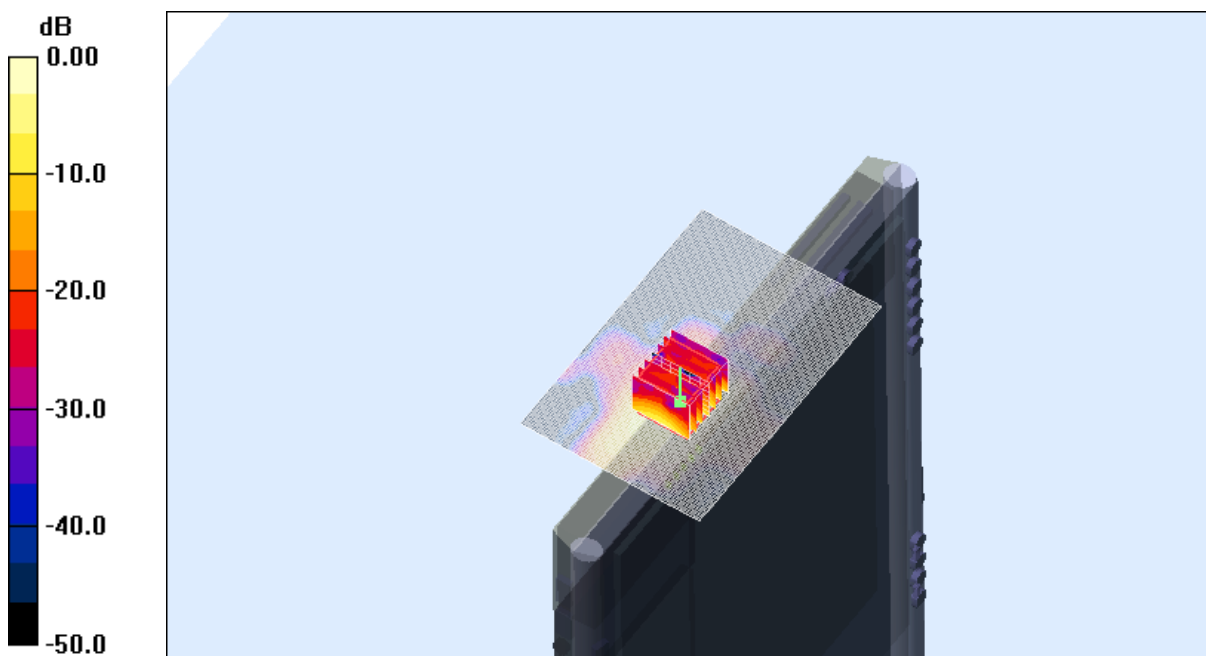
Channel 036 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.1 V/m; Power Drift = 0.475 dB

Peak SAR (extrapolated) = 6.07 W/kg

SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 3.18 mW/g



SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Test Date: 26 August 2006

File Name: [Edge On OFDM 5.2 GHz Antenna Aux Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.42628$ mho/m, $\epsilon_r = 46.4873$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 052 Test 3/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.95 mW/g

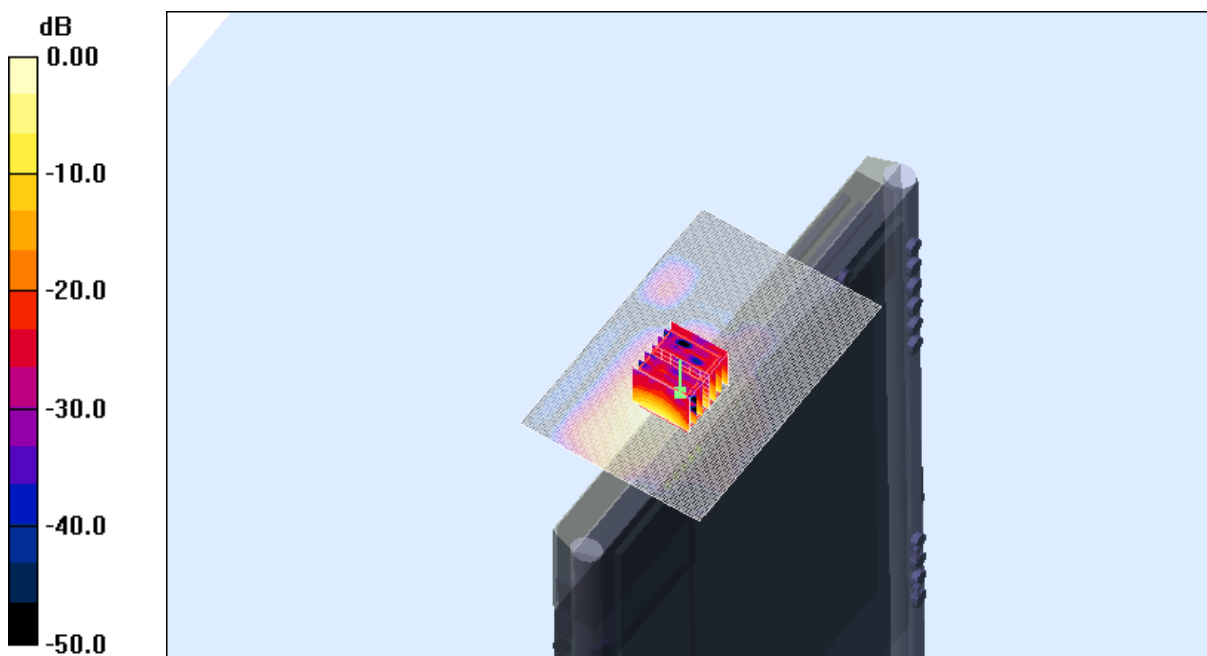
Channel 052 Test 3/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.8 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 6.09 W/kg

SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.413 mW/g

Maximum value of SAR (measured) = 3.22 mW/g



0 dB = 3.22mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Test Date: 26 August 2006

File Name: [Edge On OFDM 5.2 GHz Antenna Aux Bluetooth Off 26-08-06.da4](#)

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

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

* Medium parameters used: $\sigma = 5.53862$ mho/m, $\epsilon_r = 46.3195$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.84, 3.84, 3.84)

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

Channel 064 Test/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm

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

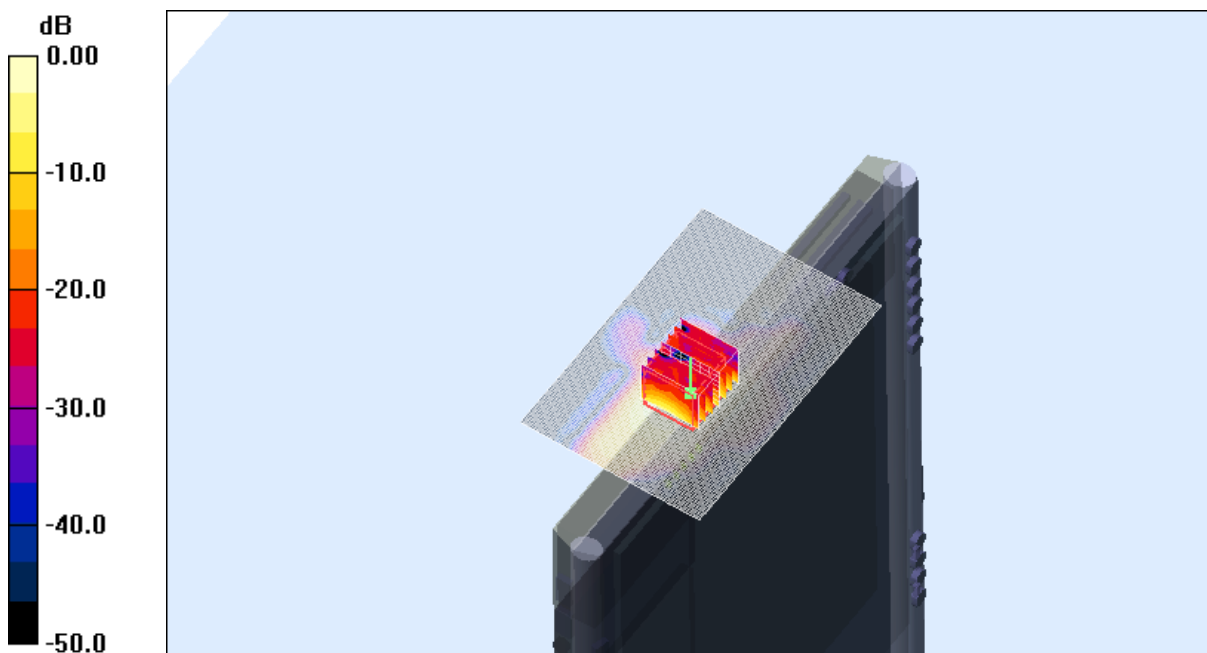
Channel 064 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.8 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 5.41 W/kg

SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.383 mW/g

Maximum value of SAR (measured) = 2.21 mW/g



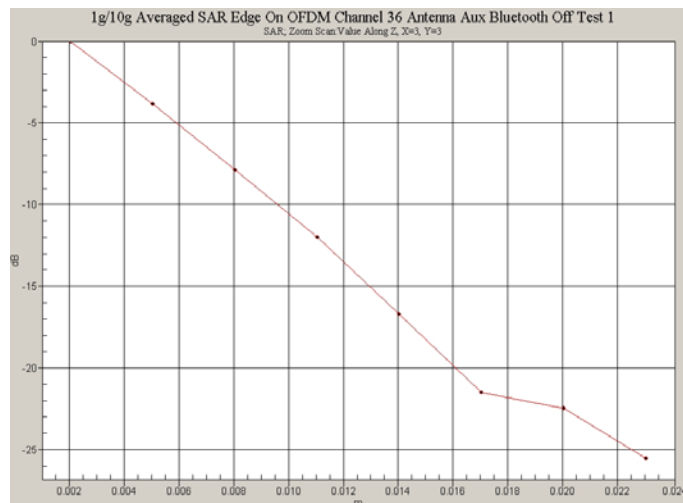
0 dB = 2.21mW/g

SAR MEASUREMENT PLOT 9

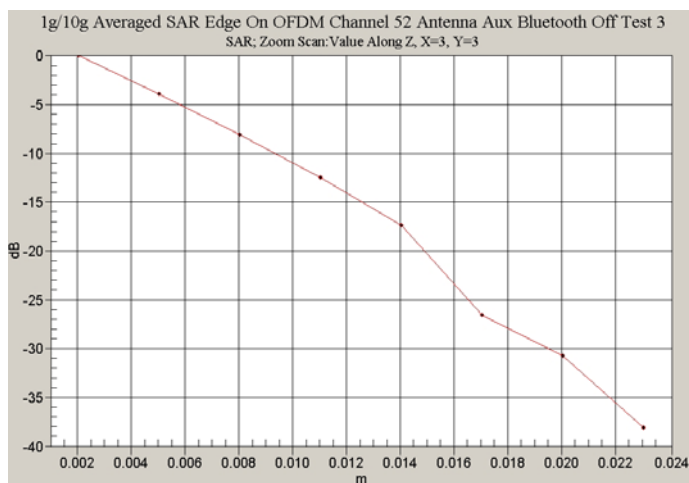
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.1 Degrees Celsius
40.0 %

Z-Axis Graph for Plot 7



Z-Axis Graph for Plot 8



Z-Axis Graph for Plot 9

