

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

Table 30: 2450 MHz DSSS Band SAR Measurement Plot Numbers

Plot 1	Lap Arm Held Position – Ant Aux – Pre-scan	CH#06
Plot 2	Lap Arm Held Position – Ant Main – Pre-scan	CH#06
Plot 3	Lap Arm Held Position – Ant Aux	CH#01
Plot 4	Lap Arm Held Position – Ant Aux	CH#06
Plot 5	Lap Arm Held Position – Ant Aux	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 3 to 5	
Plot 6	Tablet Position – Ant A – Pre-scan	CH#06
Plot 7	Tablet Position – Ant Main	CH#01
Plot 8	Tablet Position – Ant Main	CH#06
Plot 9	Tablet Position – Ant Main	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 7 to 9	
Plot 10	Edge On Position – Ant Aux	CH#01
Plot 11	Edge On Position – Ant Aux	CH#06
Plot 12	Edge On Position – Ant Aux	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 10 – 12	
Plot 13	Edge On Position – Ant Main	CH#01
Plot 14	Edge On Position – Ant Main	CH#06
Plot 15	Edge On Position – Ant Main	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 13 – 15	

WLAN with Bluetooth On

Plot 16	Edge On Position With Blue tooth Ant Main	CH#06
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Table 31: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Plot 17	Tablet Position With Blue tooth Ant Main	CH#06
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Plot 18	Lap Arm Held Position With Blue tooth Ant Aux	CH#06
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Z-Axis Graphs	Z-Axis graphs for Plot 16 - 18	
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Table 32: 5800 MHz Band SAR Measurement Plot Numbers

Plot 19	Lap Arm Held Position – Ant Aux	CH#149
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Plot 20	Lap Arm Held Position – Ant Aux	CH#157
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Plot 21	Lap Arm Held Position – Ant Aux	CH#165
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Z-Axis graphs	Z-Axis graphs for Plots 19 to 21	
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Plot 22	Tablet Position – Ant Main	CH#149
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Plot 23	Tablet Position – Ant Main	CH#157
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Plot 24	Tablet Position – Ant Main	CH#165
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Z-Axis graphs	Z-Axis graphs for Plots 22 to 24	
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Plot 25	Edge On Position – Ant Aux	CH#157
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Plot 26	Edge On Position – Ant Main	CH#157
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Z-Axis graphs	Z-Axis graphs for Plots 25 to 26	
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Plot 27	Edge On Position – Ant Aux	CH#149
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Plot 28	Edge On Position – Ant Aux	CH#157
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Plot 29	Edge On Position – Ant Aux	CH#165
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Z-Axis graphs	Z-Axis graphs for Plots 27 – 29	
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Plot 30	Edge On Position – Ant Main	CH#149
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Plot 31	Edge On Position – Ant Main	CH#157
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Plot 32	Edge On Position – Ant Main	CH#165
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Z-Axis graphs	Z-Axis graphs for Plots 30 to 32	
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WLAN with Bluetooth On

Plot 33 Tablet Position With Blue tooth Ant Main CH#149

Plot 34 Edge On Position With Blue tooth Ant Aux CH#165

Plot 35 Edge On Position With Blue tooth Ant Main CH#165

Z-Axis graphs Z-Axis graphs for Plots 33 to 35

Table 33: Validation Plot

Plot 36 Validation 2450 MHz 2nd September 2006

Plot 37 Validation 2450 MHz 4th September 2006

Plot 38 Validation 5800 MHz 21st August 2006

Z-Axis graphs Z-Axis graphs for Plots 36 to 38

Plot 39 Validation 5800 MHz 22nd August 2006

Plot 40 Validation 5800 MHz 24th August 2006

Z-Axis Graphs Z-Axis graphs for Plots 39 to 40

Test Date: 04 September 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off Prescan 04-09-06.da4](#)

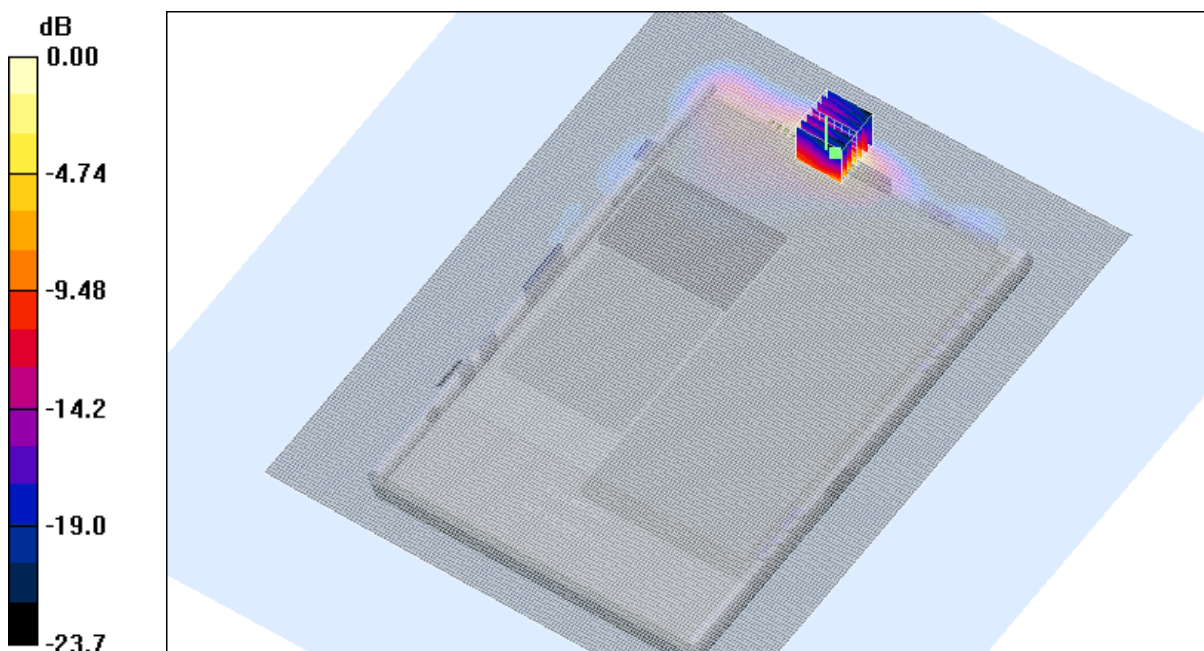
DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.90878$ mho/m, $\epsilon_r = 54.1369$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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



0 dB = 0.693mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

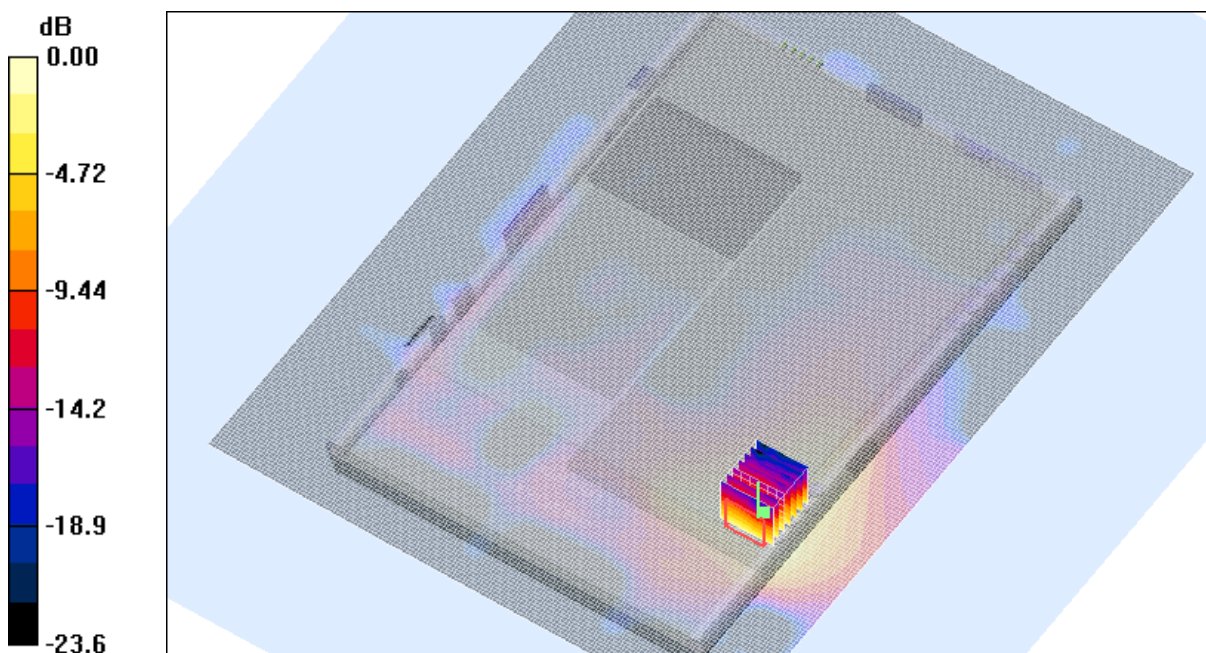
21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

Test Date: 04 September 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna Main Bluetooth On Prescan 04-09-06.da4](#)

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

- * Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $\sigma = 1.90878$ mho/m, $\epsilon_r = 54.1369$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section



0 dB = 0.086mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

Test Date: 04 September 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off 04-09-06.da4](#)

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

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.87495$ mho/m, $\epsilon_r = 54.2574$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 01 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.306 mW/g

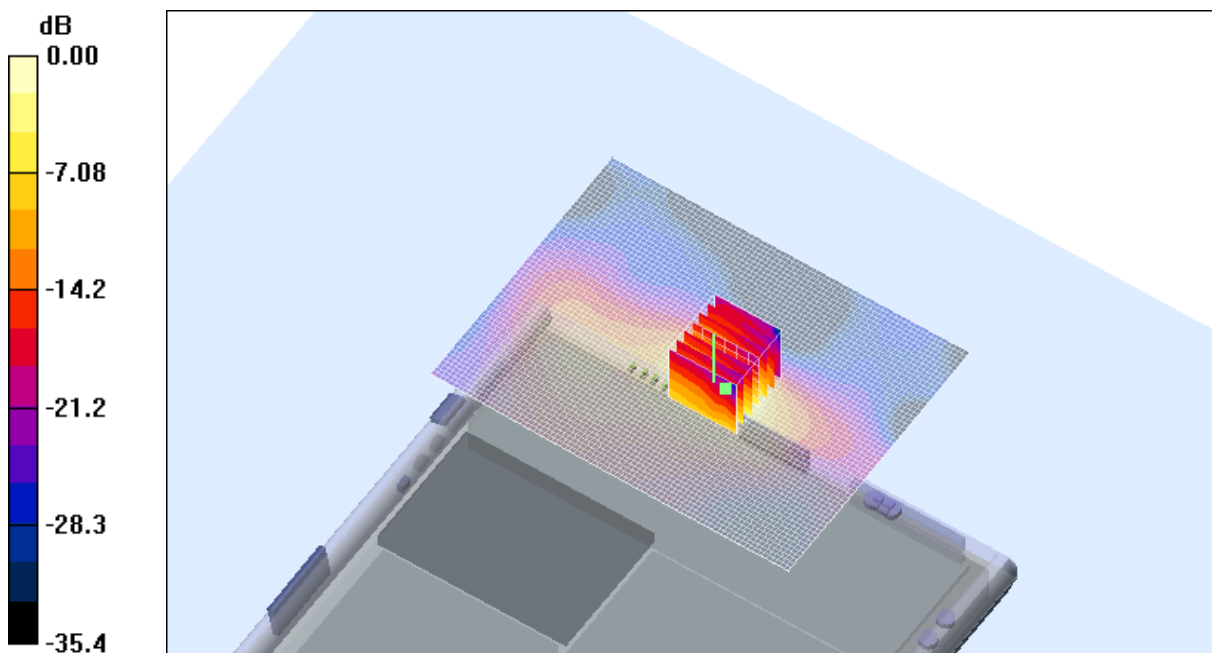
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 0.907 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.412 mW/g



0 dB = 0.412mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

Test Date: 02 September 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off 02-09-06.da4](#)

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

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.96174$ mho/m, $\epsilon_r = 51.093$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.482 mW/g

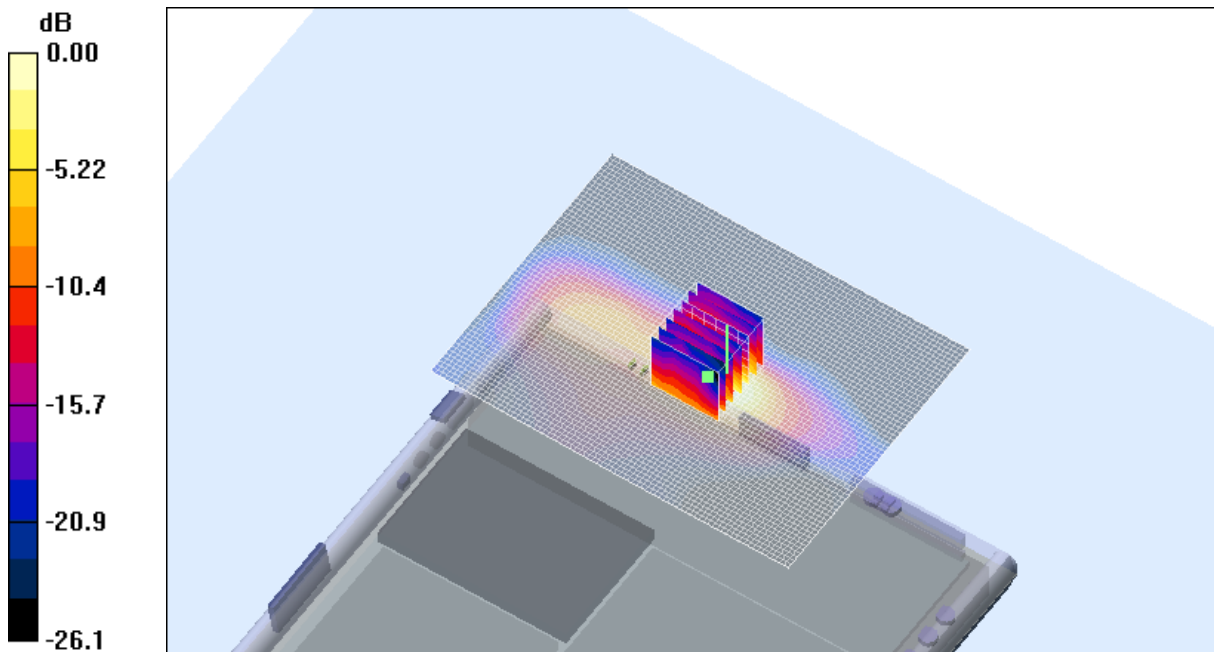
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.351 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.481 mW/g



0 dB = 0.481mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.1 Degrees Celsius
47.0 %

Test Date: 04 September 2006

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off 04-09-06.da4](#)

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

* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.94436$ mho/m, $\epsilon_r = 54.0332$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 11 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.402 mW/g

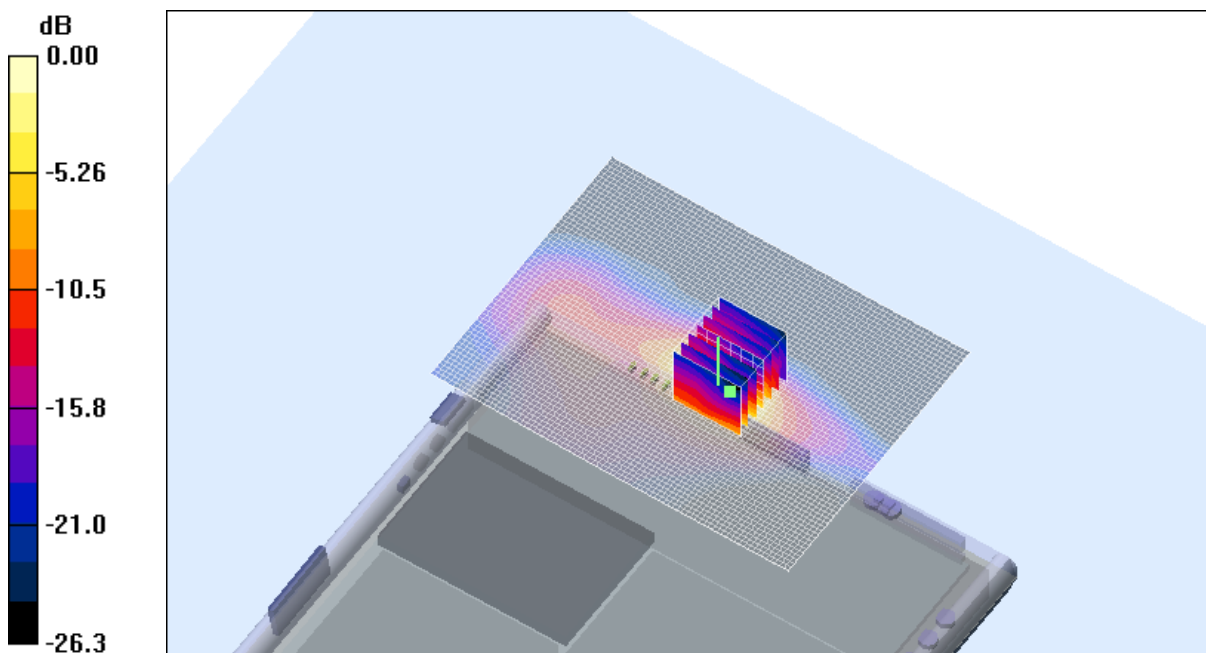
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.5 V/m; Power Drift = 0.352 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.458 mW/g



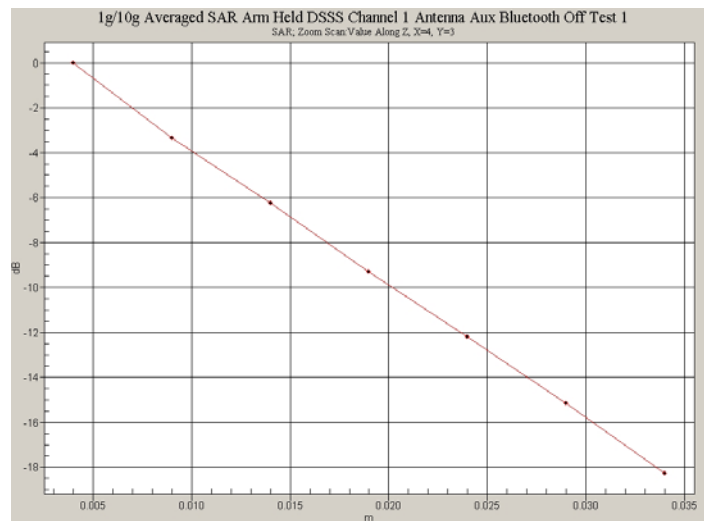
0 dB = 0.458mW/g

SAR MEASUREMENT PLOT 5

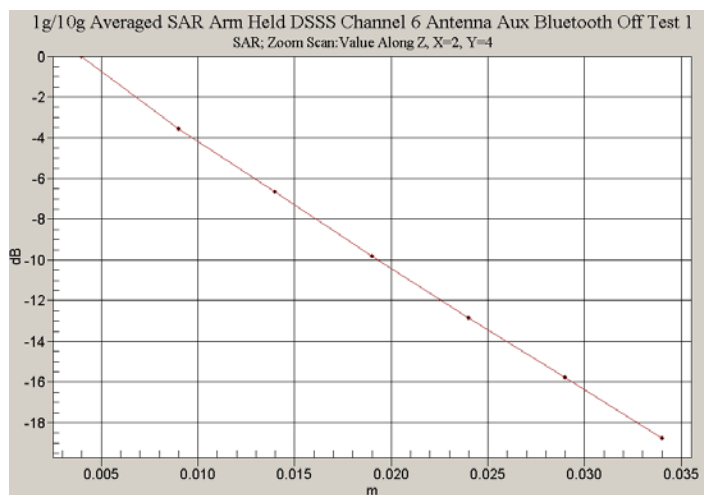
Ambient Temperature
Liquid Temperature
Humidity

21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

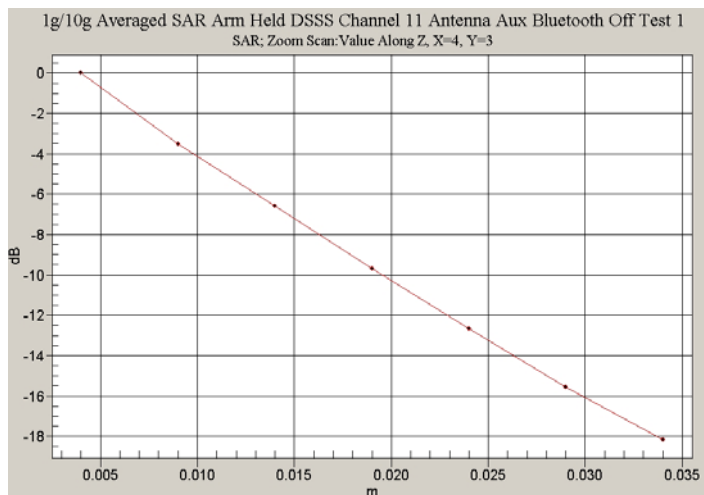
Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Test Date: 04 September 2006

File Name: [Tablet DSSS 2.45 GHz Antenna Aux Bluetooth Off Prescan 04-09-06.da4](#)

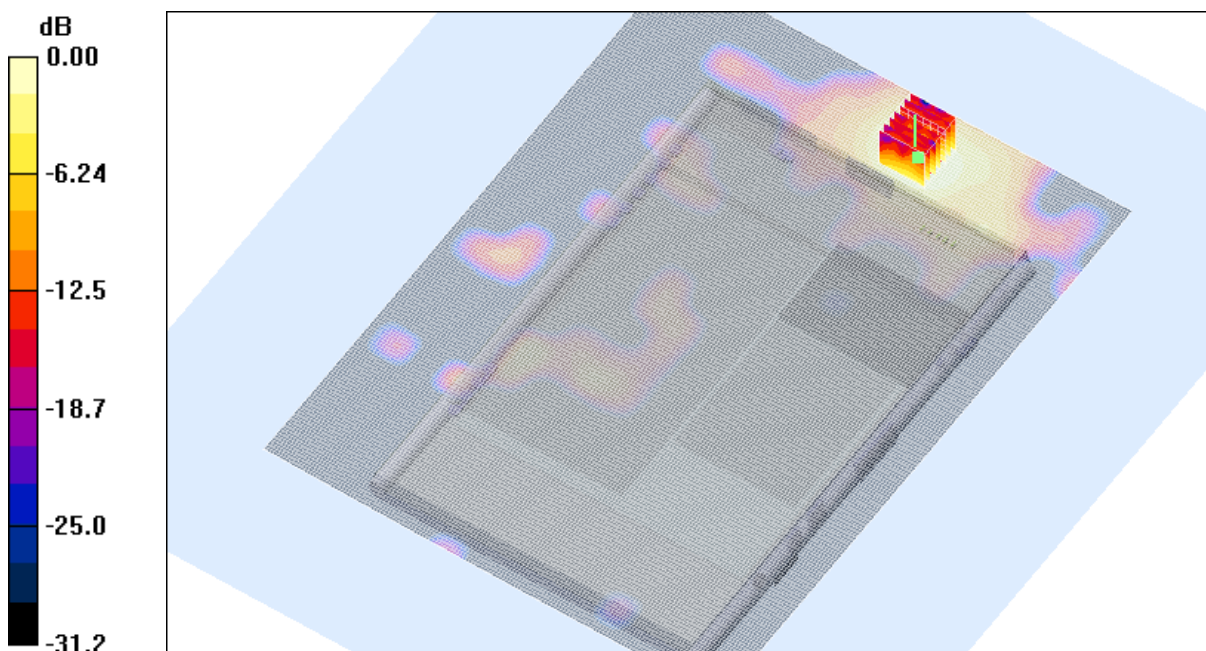
DUT: Fujitsu Tablet Osian with Golan 11abg Module; Type: 3945 AG; Serial: 00EFAF365CVD26533002

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.90878$ mho/m, $\epsilon_r = 54.1369$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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



0 dB = 0.026mW/g

SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

Test Date: 02 September 2006

File Name: [Tablet DSSS 2.45 GHz Ant Main Bluetooth Off 02-09-06.da4](#)

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

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.92277$ mho/m, $\epsilon_r = 51.2123$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 01 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.347 mW/g

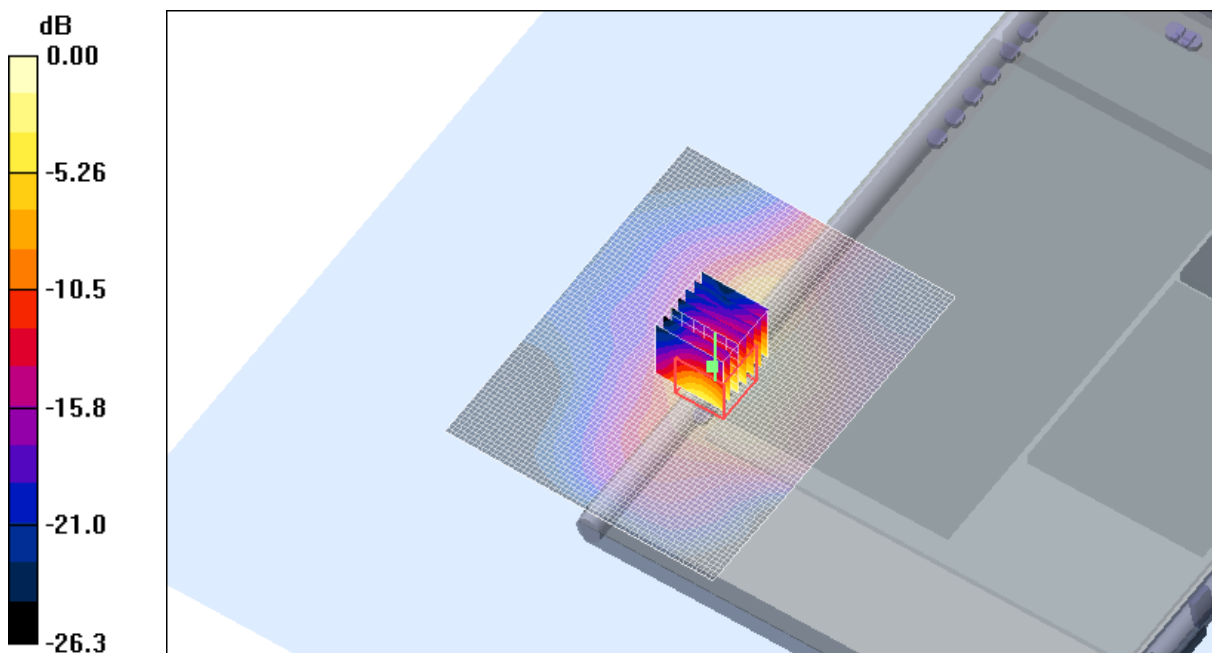
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.75 V/m; Power Drift = 0.268 dB

Peak SAR (extrapolated) = 0.850 W/kg

SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.370 mW/g



0 dB = 0.370mW/g

SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.1 Degrees Celsius
47.0 %

Test Date: 02 September 2006

File Name: [Tablet DSSS 2.45 GHz Ant Main Bluetooth Off 02-09-06.da4](#)

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

* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.96174$ mho/m, $\epsilon_r = 51.093$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 06 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.661 mW/g

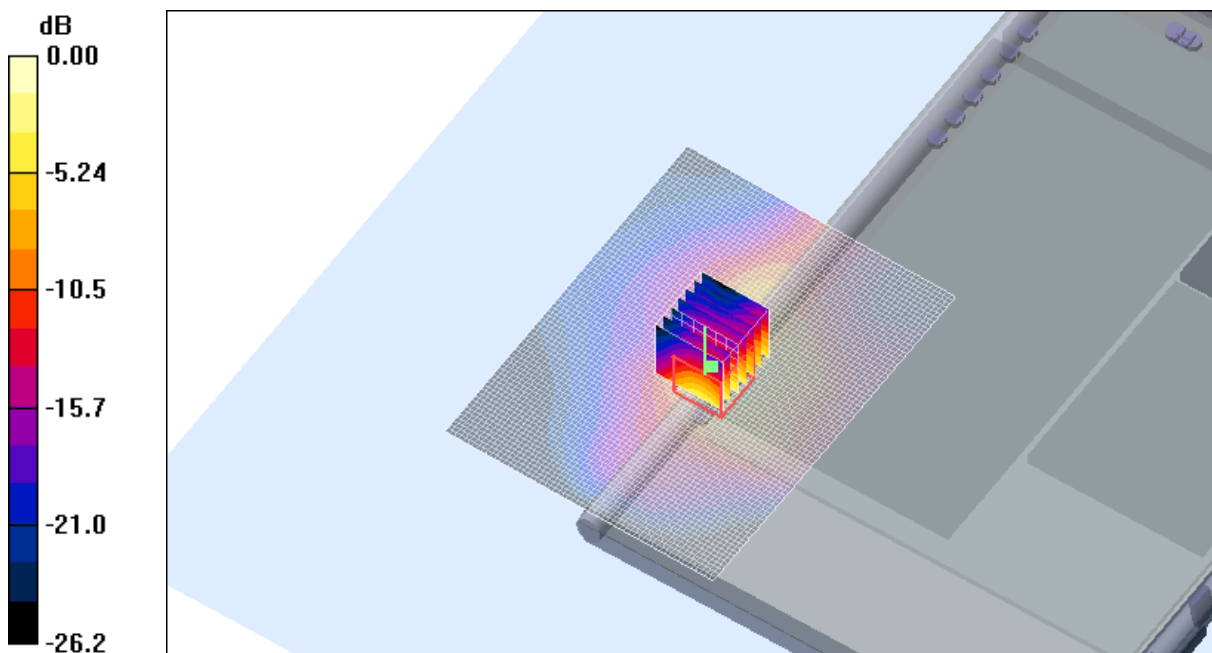
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.247 mW/g

Maximum value of SAR (measured) = 0.693 mW/g



0 dB = 0.693mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.1 Degrees Celsius
47.0 %

Test Date: 04 September 2006

File Name: [Tablet DSSS 2.45 GHz Ant Main Bluetooth Off 04-09-06.da4](#)

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

* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.94436$ mho/m, $\epsilon_r = 54.0332$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

Channel 11 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.539 mW/g

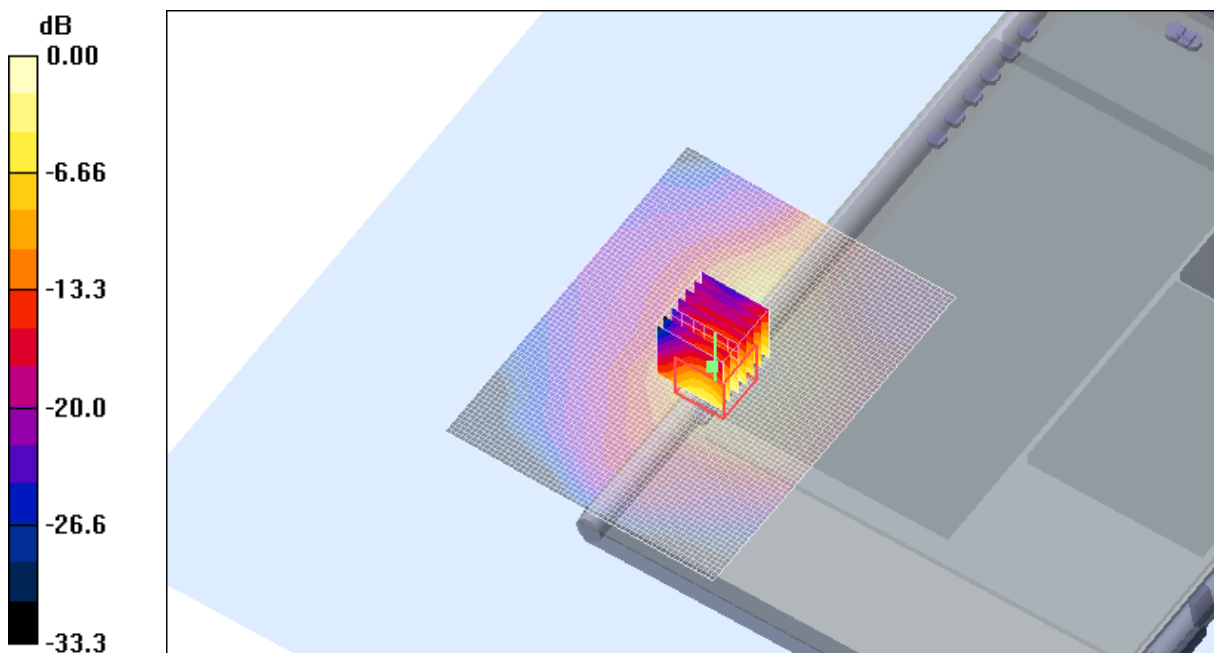
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.86 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.613 mW/g



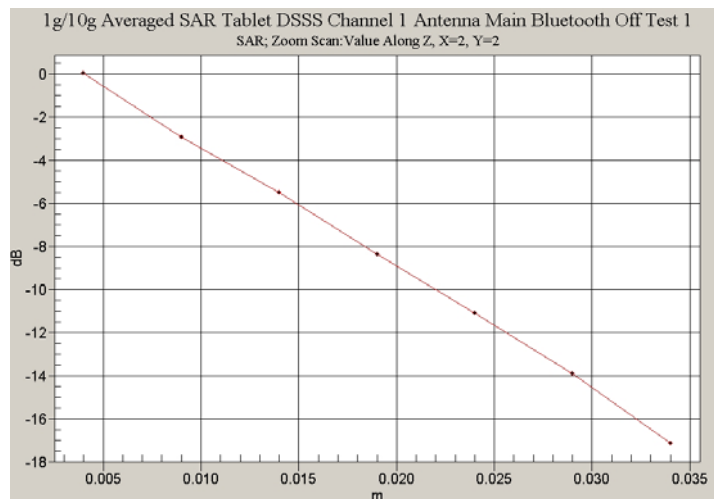
0 dB = 0.613mW/g

SAR MEASUREMENT PLOT 9

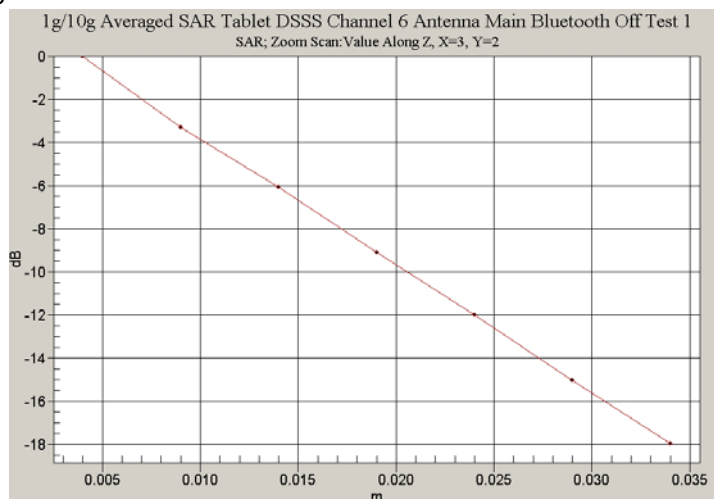
Ambient Temperature
Liquid Temperature
Humidity

21.5 Degrees Celsius
21.2 Degrees Celsius
40.0 %

Z-Axis Graph for Plot 7



Z-Axis Graph for Plot 8



Z-Axis Graph for Plot 9

