

APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table: 2450 MHz DSSS Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Right	1	B	1	-	06
Z-Axis graphs for Plots 1					

Table: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Right	2	B	6	-	06
Edge On Left	3	A	6	-	06
Z-Axis graphs for Plots 2 to 3					
Edge On Left	4	C	6	-	01
	5	C	6	-	06
	6	C	6	-	11
Z-Axis graphs for Plots 4 to 6					
Tablet	7	A	6	-	06
	8	B	6	-	06
	9	C	6	-	06
Z-Axis graphs for Plots 7 to 9					

Table: 2450 MHz BLUETOOTH (FHSS) Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Left	10	-	-	-	40
Z-Axis graph for Plot 10					

Table: 2450MHz Validation Plot

Plot 11	Validation 2450 MHz 30 th July 2008
Z-Axis graphs for Plots 12	



Test Date: 30 July 2008

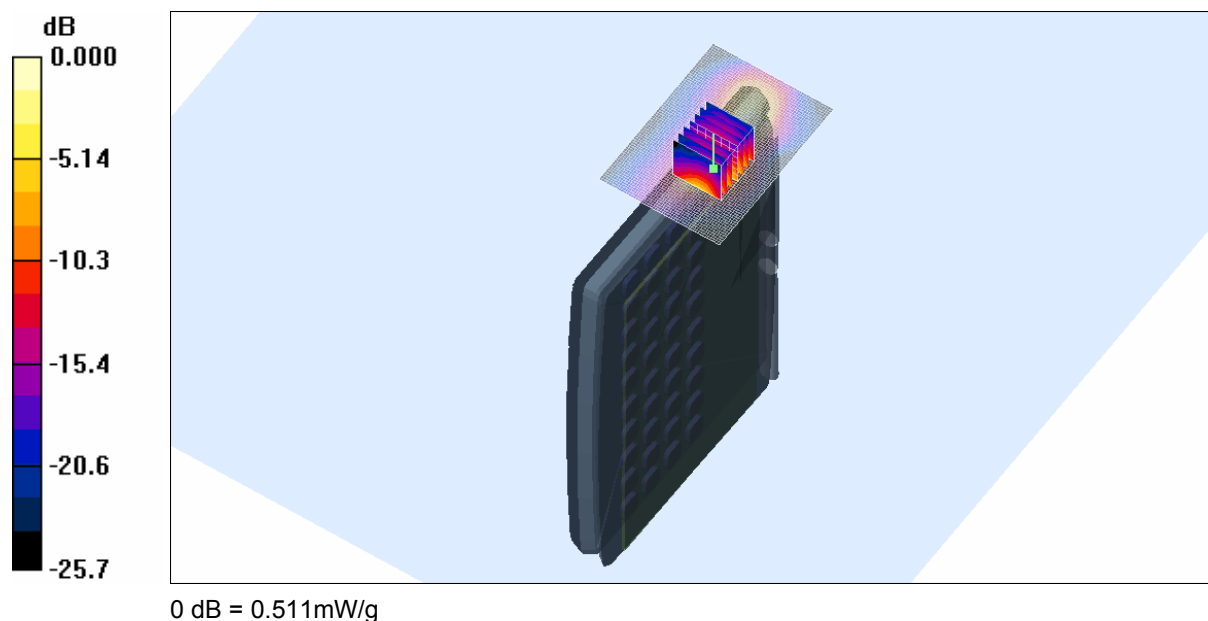
File Name: Edge On Right DSSS 2.4 GHz Antenna B 2dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.502 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.36 V/m; Power Drift = -0.478 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.179 mW/g
Maximum value of SAR (measured) = 0.511 mW/g

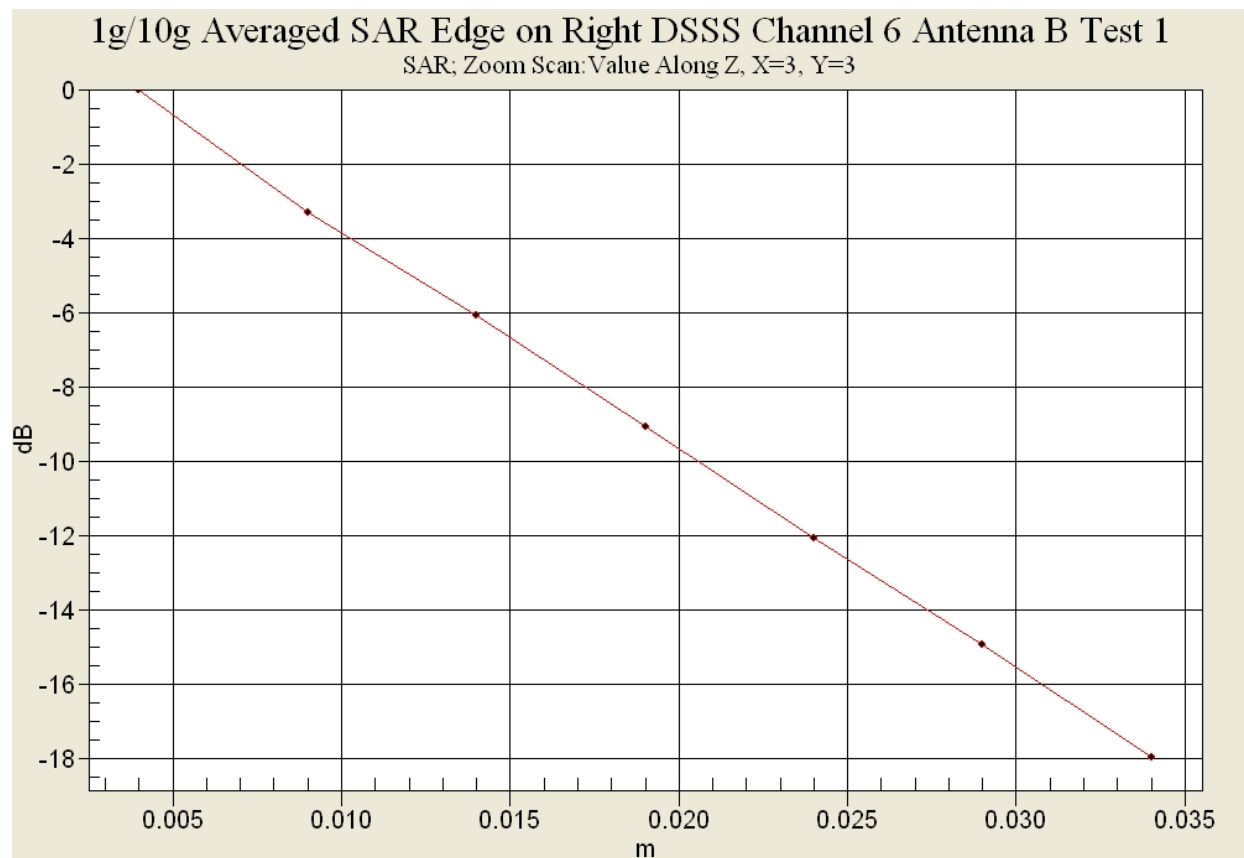


SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %





Test Date: 30 July 2008

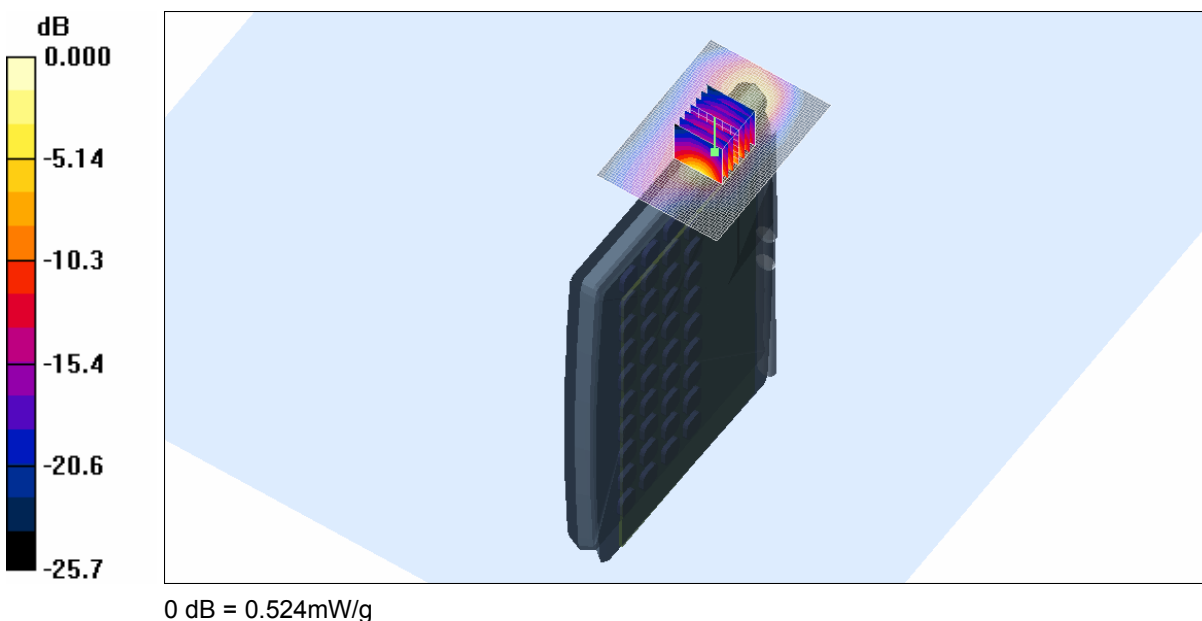
File Name: Edge On Right OFDM 2.4 GHz Antenna B 2dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.559 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.5 V/m; Power Drift = -0.338 dB
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.180 mW/g
Maximum value of SAR (measured) = 0.524 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %



Test Date: 30 July 2008

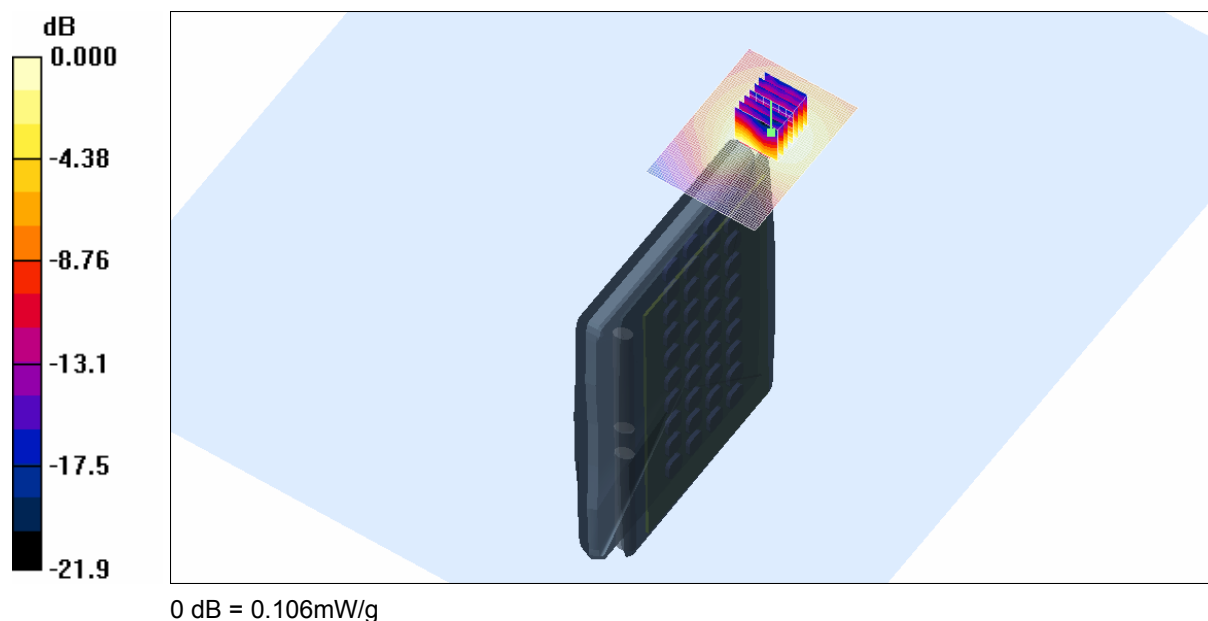
File Name: Edge On Left OFDM 2.4 GHz Antenna A 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.107 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.70 V/m; Power Drift = -0.366 dB
Peak SAR (extrapolated) = 0.233 W/kg
SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.106 mW/g



SAR MEASUREMENT PLOT 3

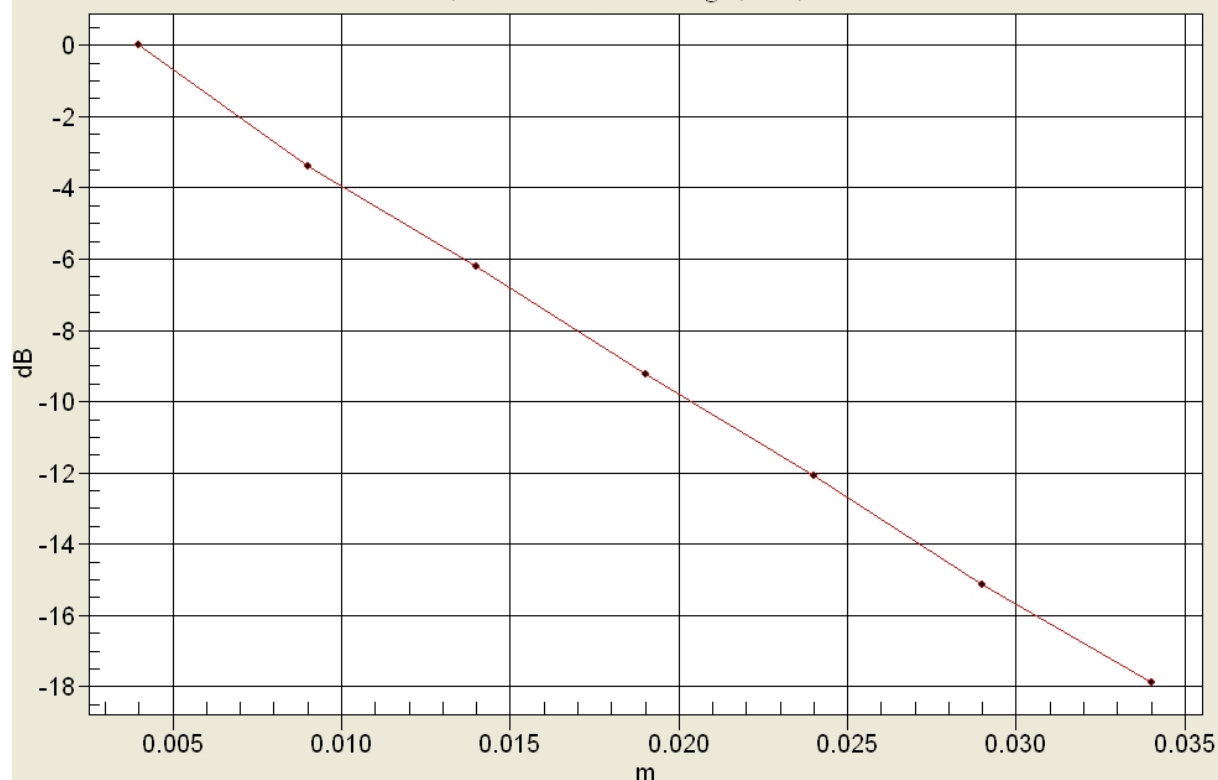
Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %



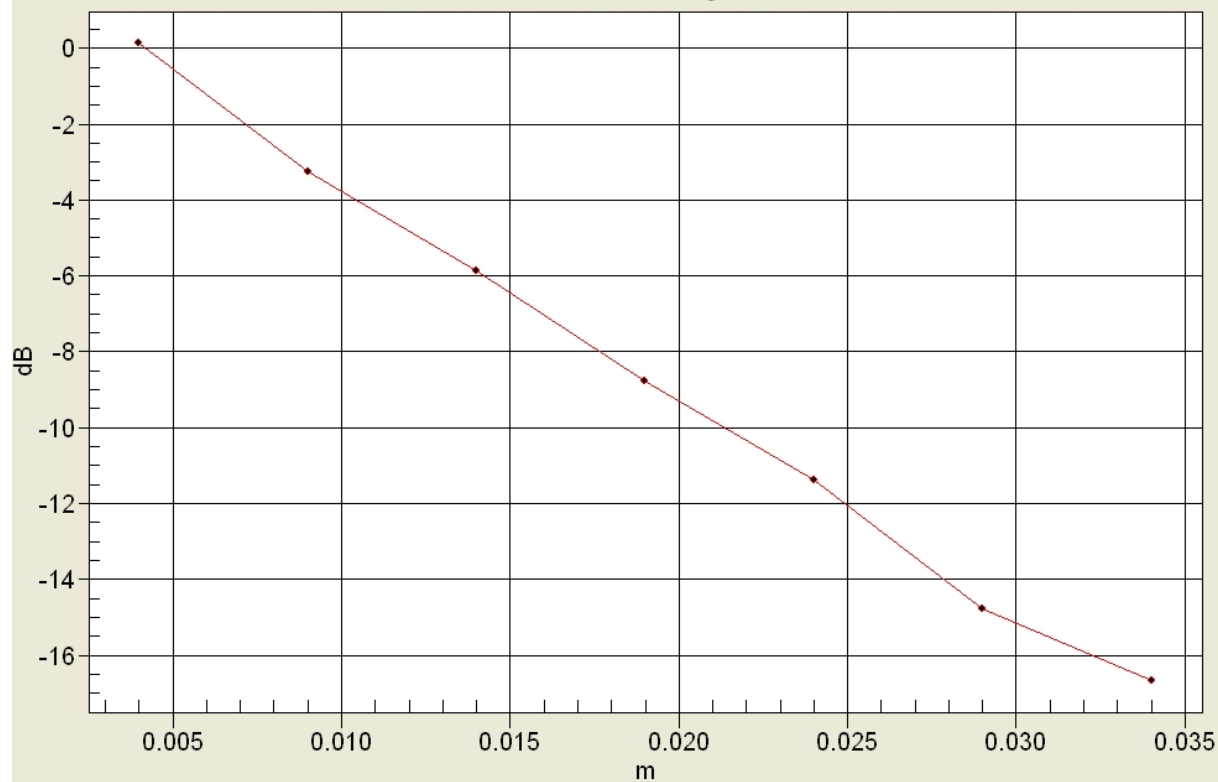
1g/10g Averaged SAR Edge on Right OFDM Channel 6 Antenna B Test 1

SAR; Zoom Scan: Value Along Z, X=3, Y=3



1g/10g Averaged SAR Edge On Left OFDM Channel 6 Antenna A Test 1

SAR; Zoom Scan: Value Along Z, X=3, Y=3



Test Date: 30 July 2008

File Name: Edge On Left OFDM 2.4 GHz Antenna C 1dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

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

* Medium parameters used: $f = 2412$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

Channel 1 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.545 mW/g

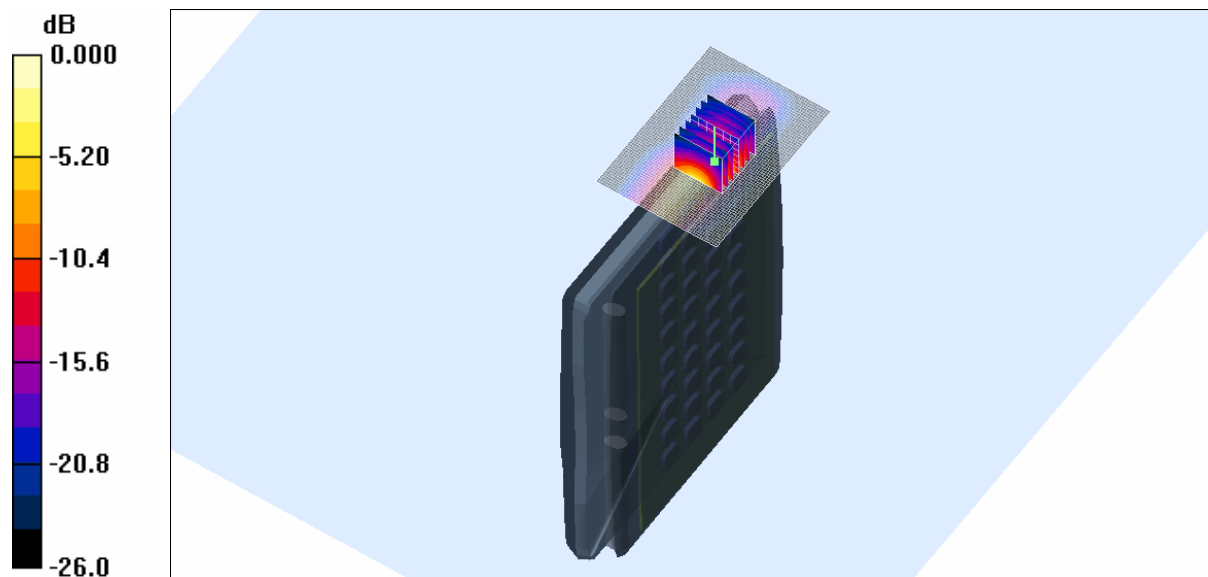
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.502 mW/g



0 dB = 0.502mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

48.0 %



Test Date: 30 July 2008

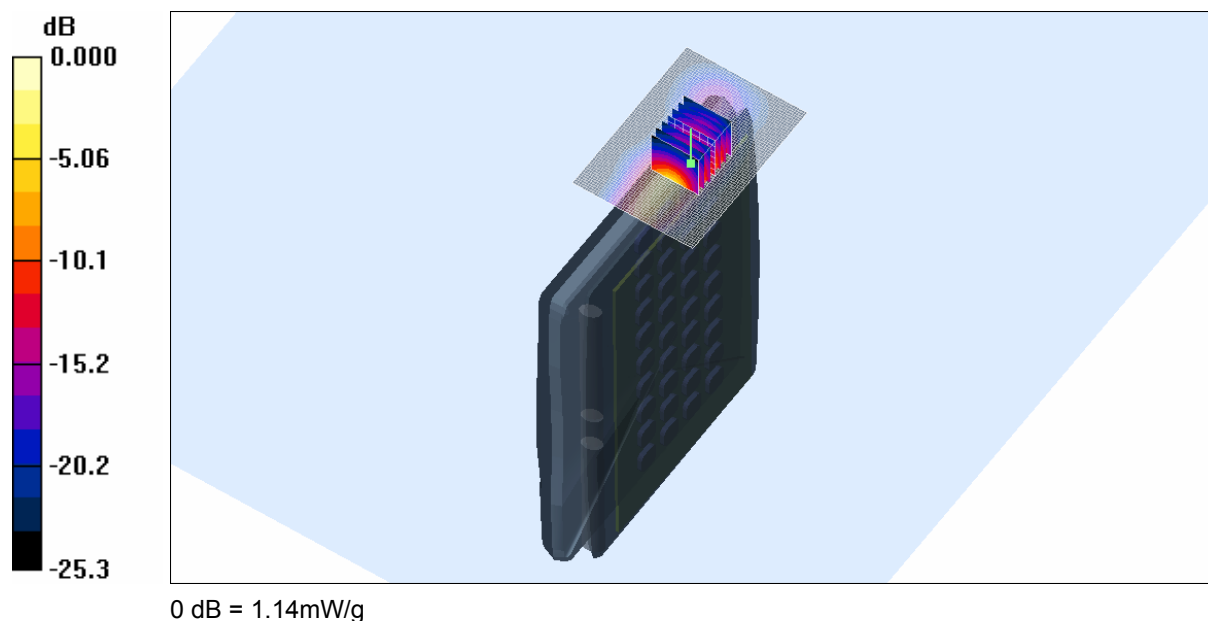
File Name: Edge On Left OFDM 2.4 GHz Antenna C 1dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.13 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = 0.466 dB
Peak SAR (extrapolated) = 2.79 W/kg
SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.341 mW/g
Maximum value of SAR (measured) = 1.14 mW/g



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %



Test Date: 30 July 2008

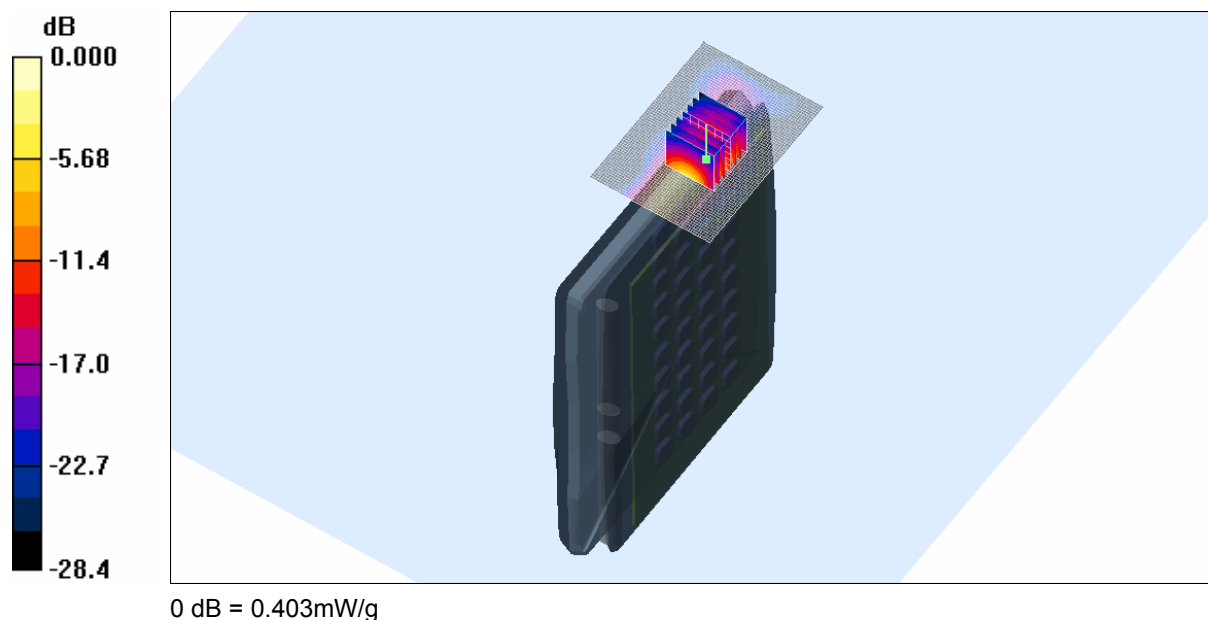
File Name: Edge On Left OFDM 2.4 GHz Antenna C 1dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 11 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.408 mW/g

Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.52 V/m; Power Drift = 0.231 dB
Peak SAR (extrapolated) = 0.949 W/kg
SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.120 mW/g
Maximum value of SAR (measured) = 0.403 mW/g

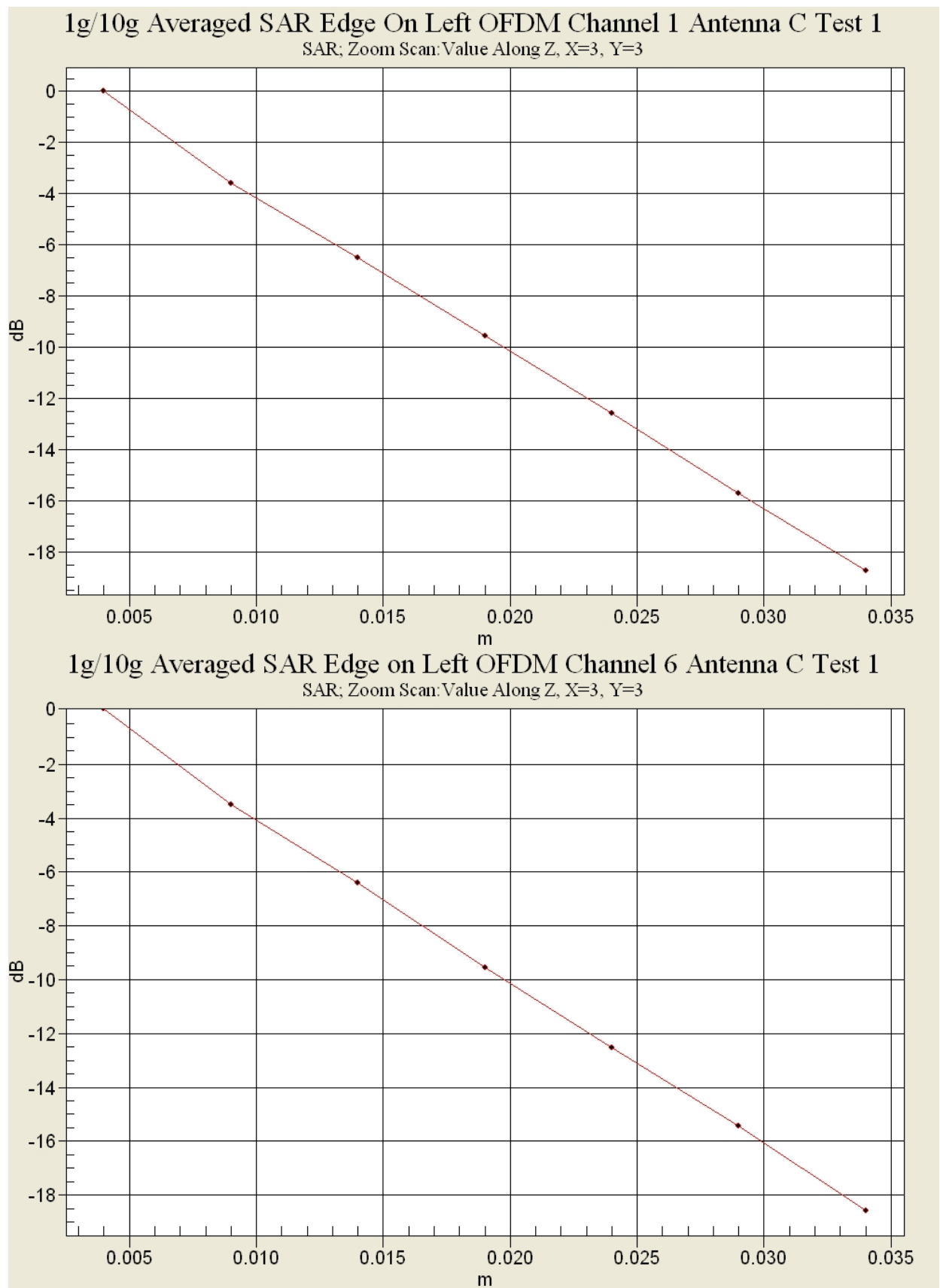


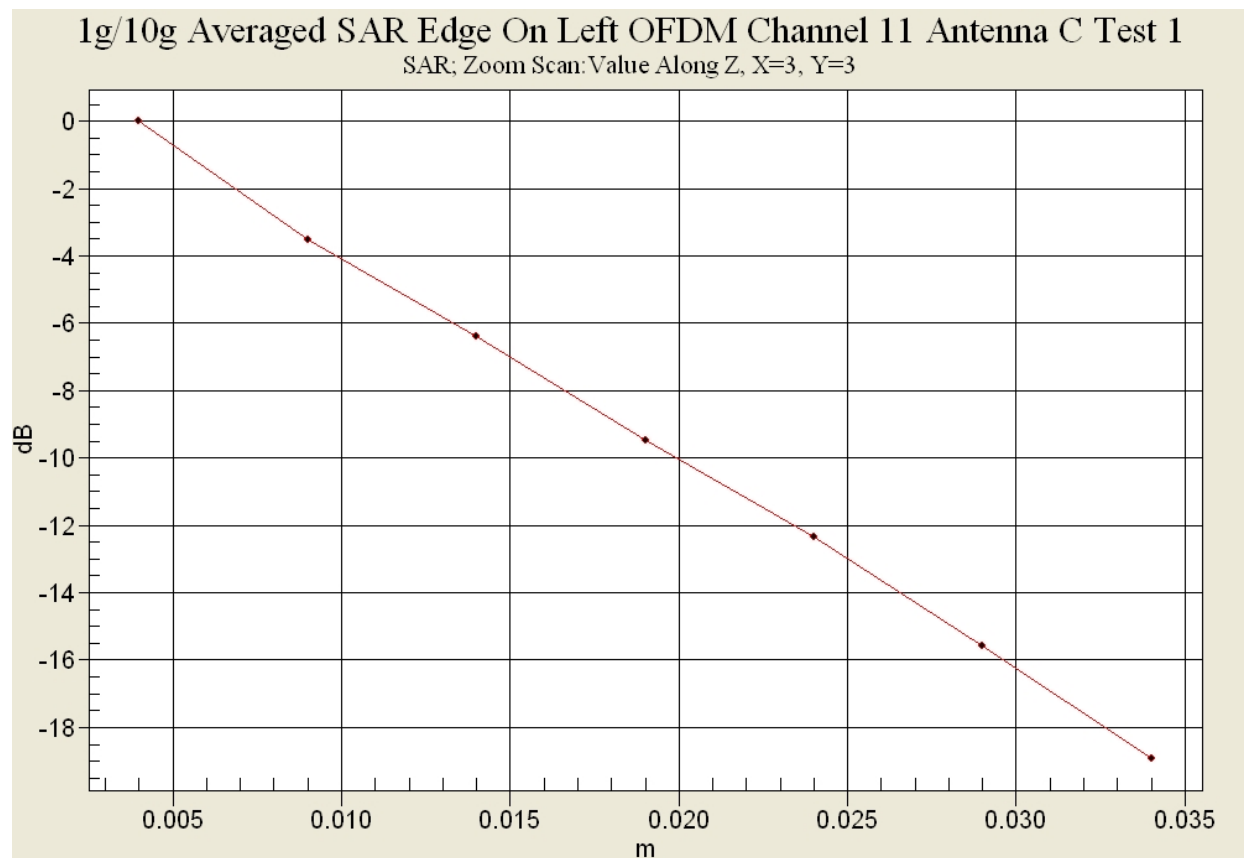
SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %







Test Date: 30 July 2008

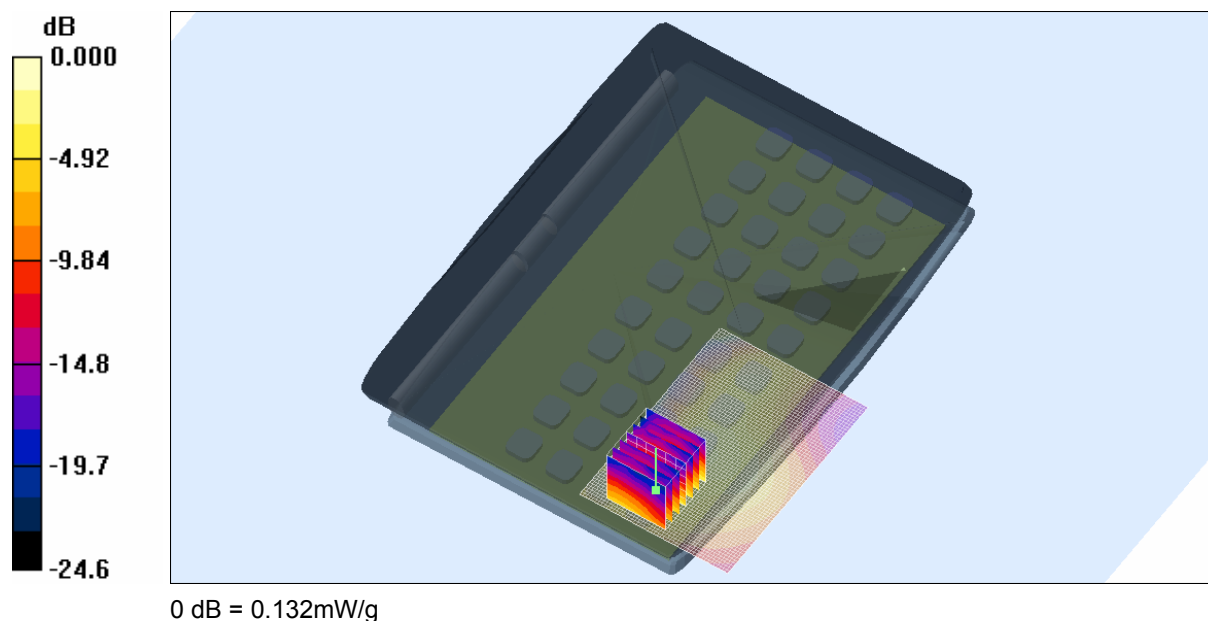
File Name: Tablet OFDM 2.4 GHz Antenna A 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.109 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.62 V/m; Power Drift = 0.305 dB
Peak SAR (extrapolated) = 0.276 W/kg
SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.054 mW/g
Maximum value of SAR (measured) = 0.132 mW/g



SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au

Test Date: 30 July 2008

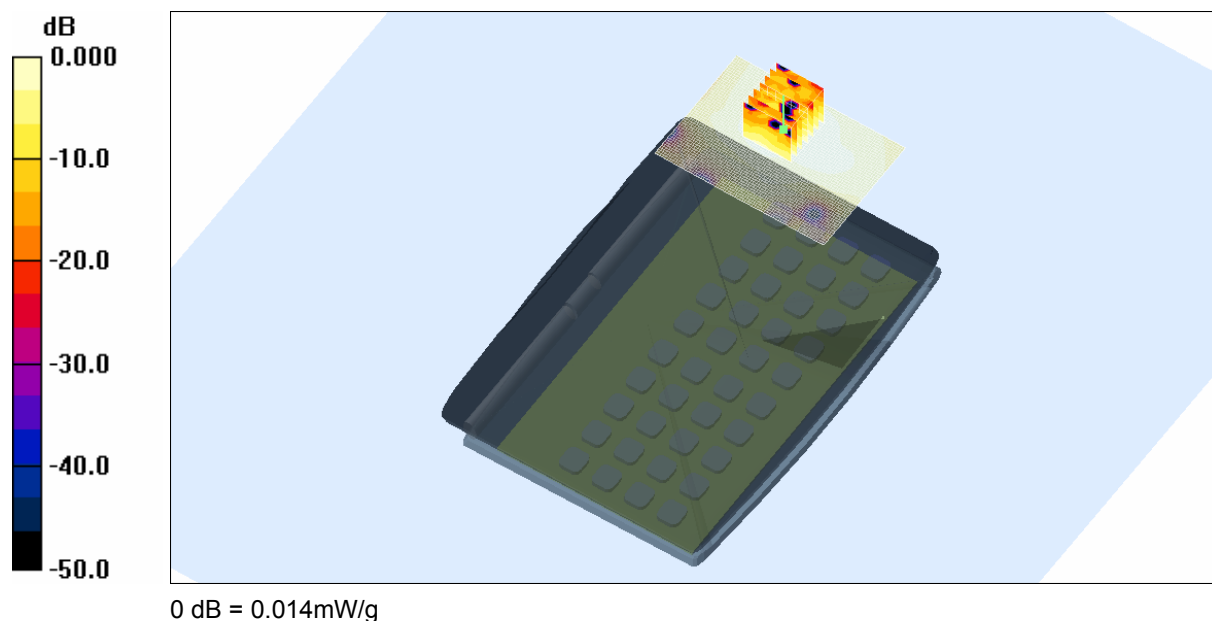
File Name: Tablet OFDM 2.4 GHz Antenna B 2dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (71x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.014 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.14 V/m; Power Drift = -0.100 dB
Peak SAR (extrapolated) = 0.029 W/kg
SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00723 mW/g
Maximum value of SAR (measured) = 0.014 mW/g



SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au

Test Date: 30 July 2008

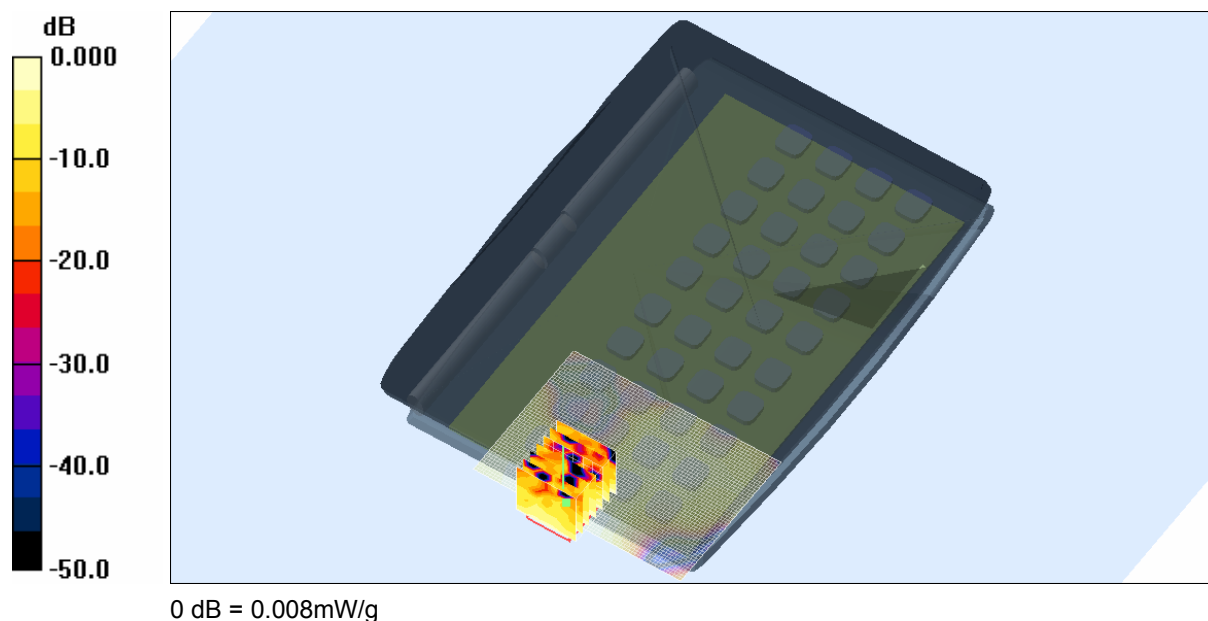
File Name: Tablet OFDM 2.4 GHz Antenna C 1dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (71x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.008 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.20 V/m; Power Drift = 0.131 dB
Peak SAR (extrapolated) = 0.021 W/kg
SAR(1 g) = 0.00663 mW/g; SAR(10 g) = 0.00325 mW/g
Maximum value of SAR (measured) = 0.008 mW/g

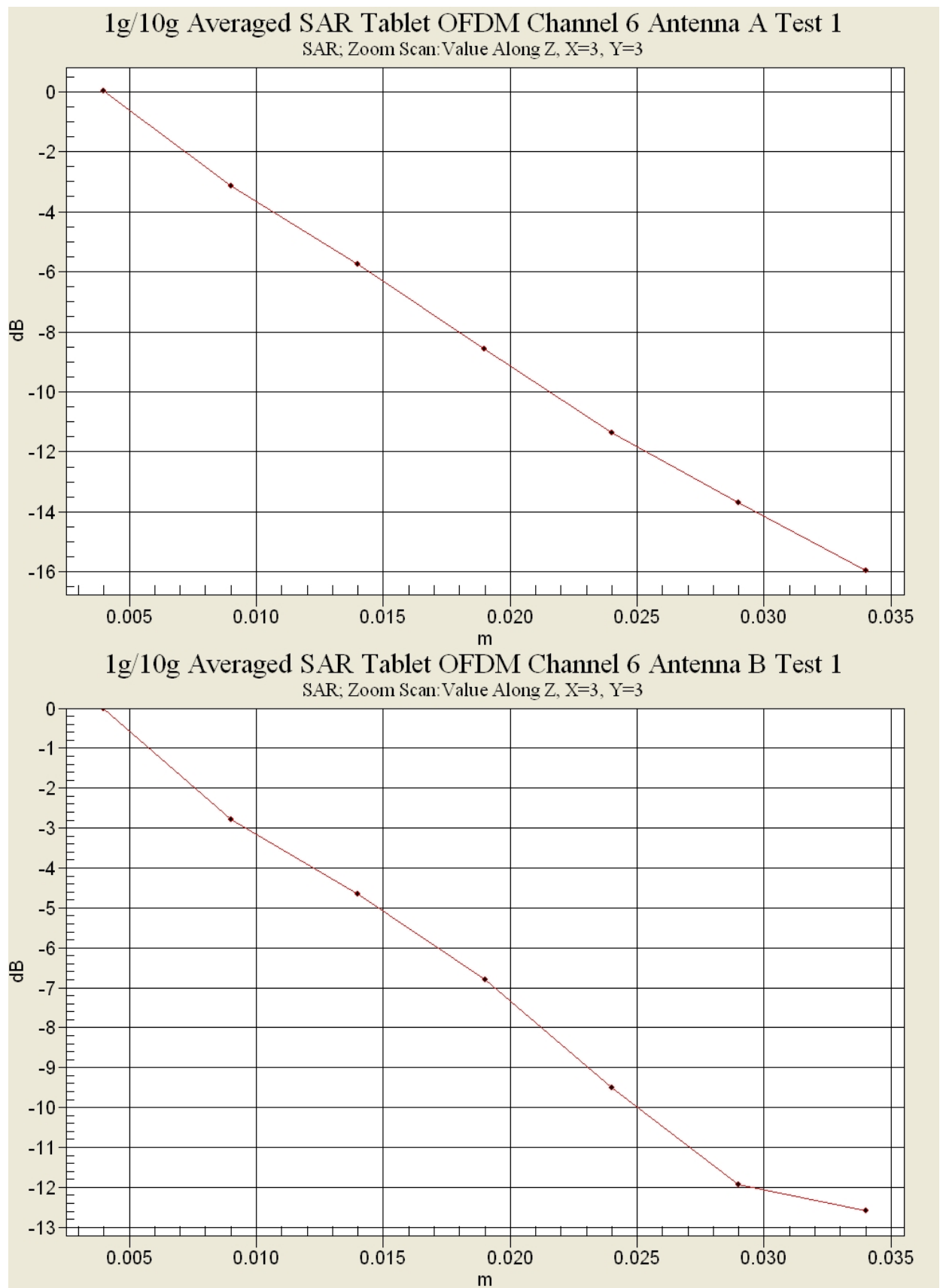


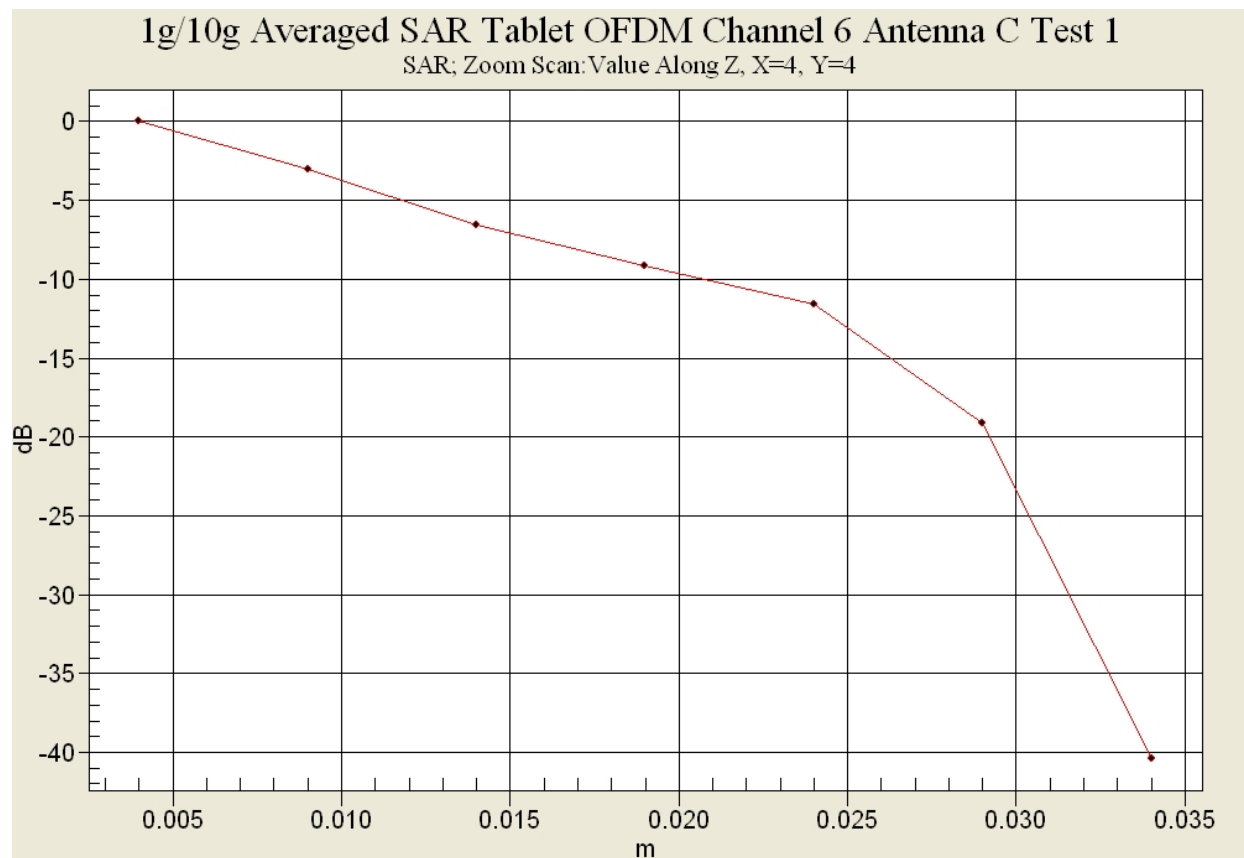
SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %







Test Date: 30 July 2008

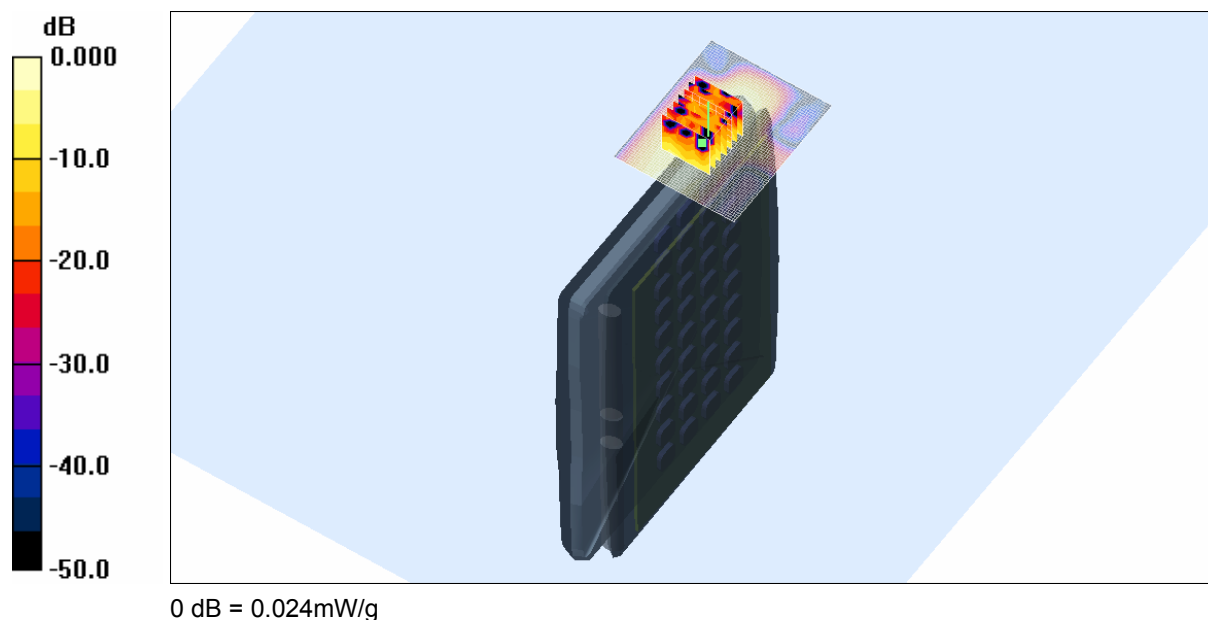
File Name: Edge On Left FHSS 2.45 GHz Bluetooth 30-07-08.da4

DUT: **Fujitsu Tablet Hibiki with Bluetooth; Type: EYTF3CSF; Serial: 00037A842FA1**

- * Communication System: FHSS 2450 MHz; Frequency: 2441 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2440$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 40 Test/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.021 mW/g

Channel 40 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.32 V/m; Power Drift = -0.429 dB
Peak SAR (extrapolated) = 0.057 W/kg
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00785 mW/g
Maximum value of SAR (measured) = 0.024 mW/g

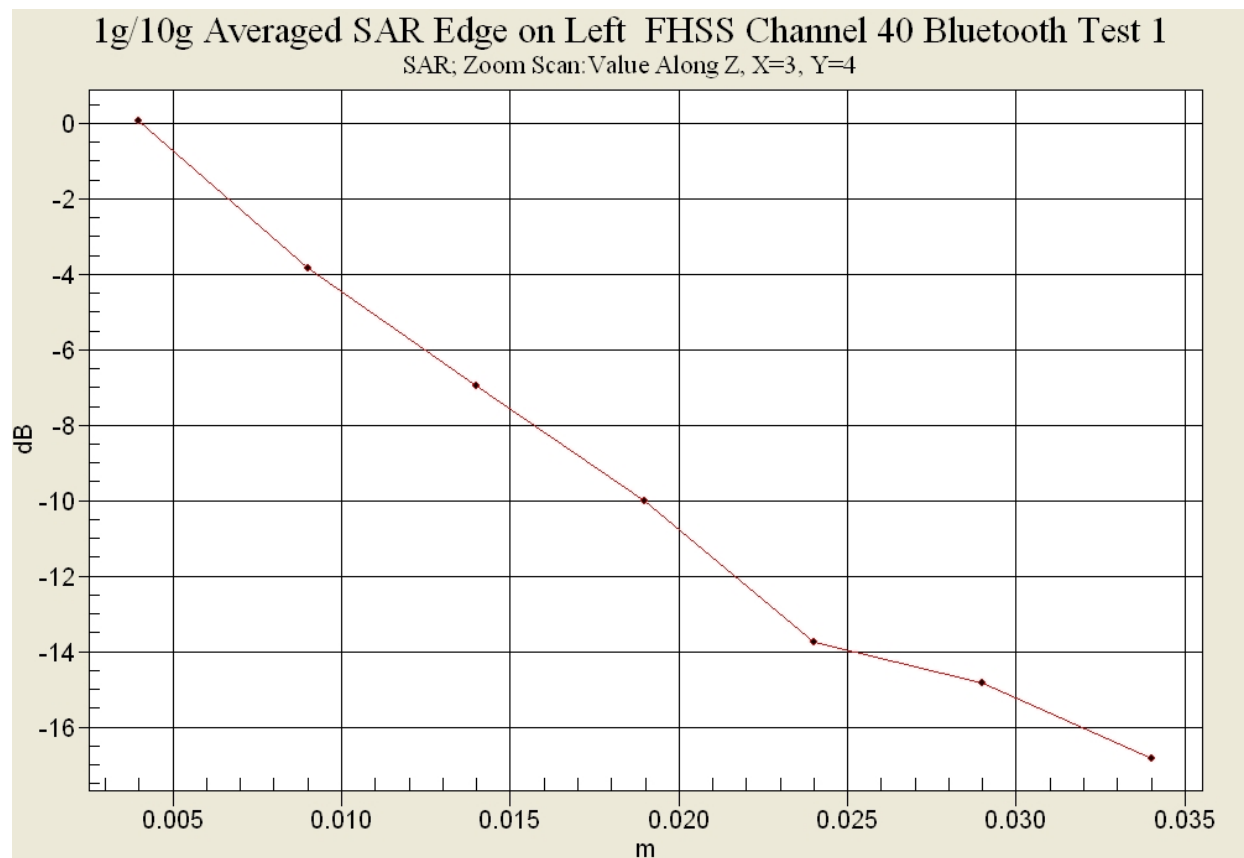


SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %





Test Date: 30 July 2008

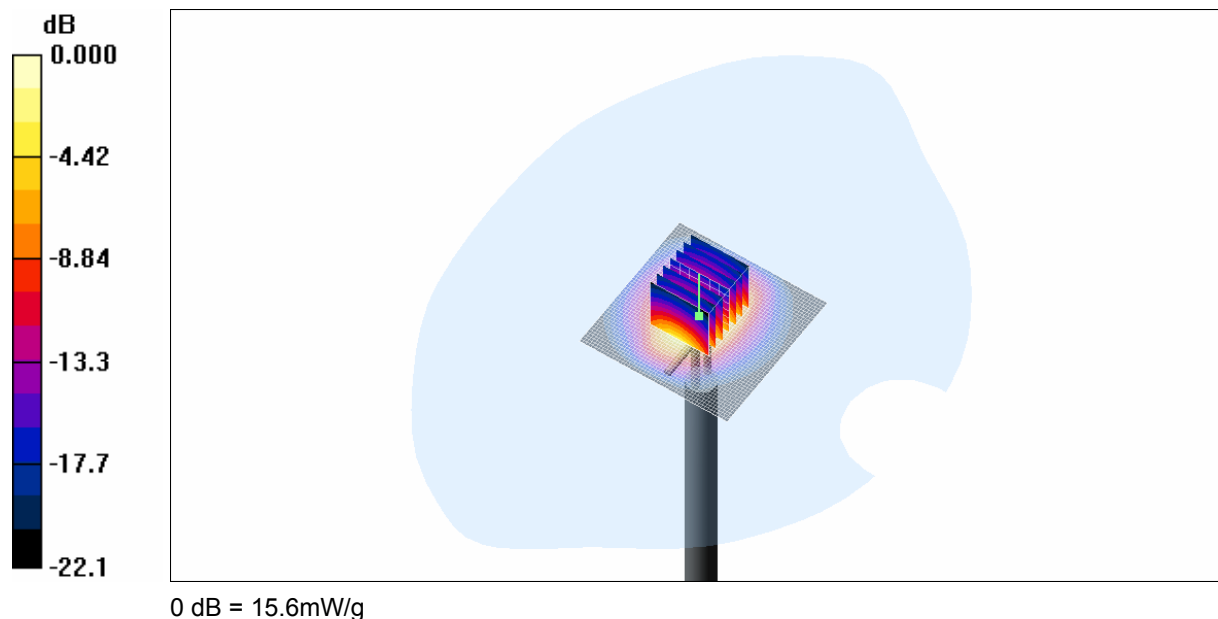
File Name: Validation 2450 MHz (DAE442 Probe1380) 30-07-08.da4

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

- * Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2450$ MHz; $\sigma = 1.8$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.55, 4.55, 4.55)
- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 19.1 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 98.0 V/m; Power Drift = -0.045 dB
Peak SAR (extrapolated) = 30.6 W/kg
SAR(1 g) = 14 mW/g; SAR(10 g) = 6.54 mW/g
Maximum value of SAR (measured) = 15.6 mW/g

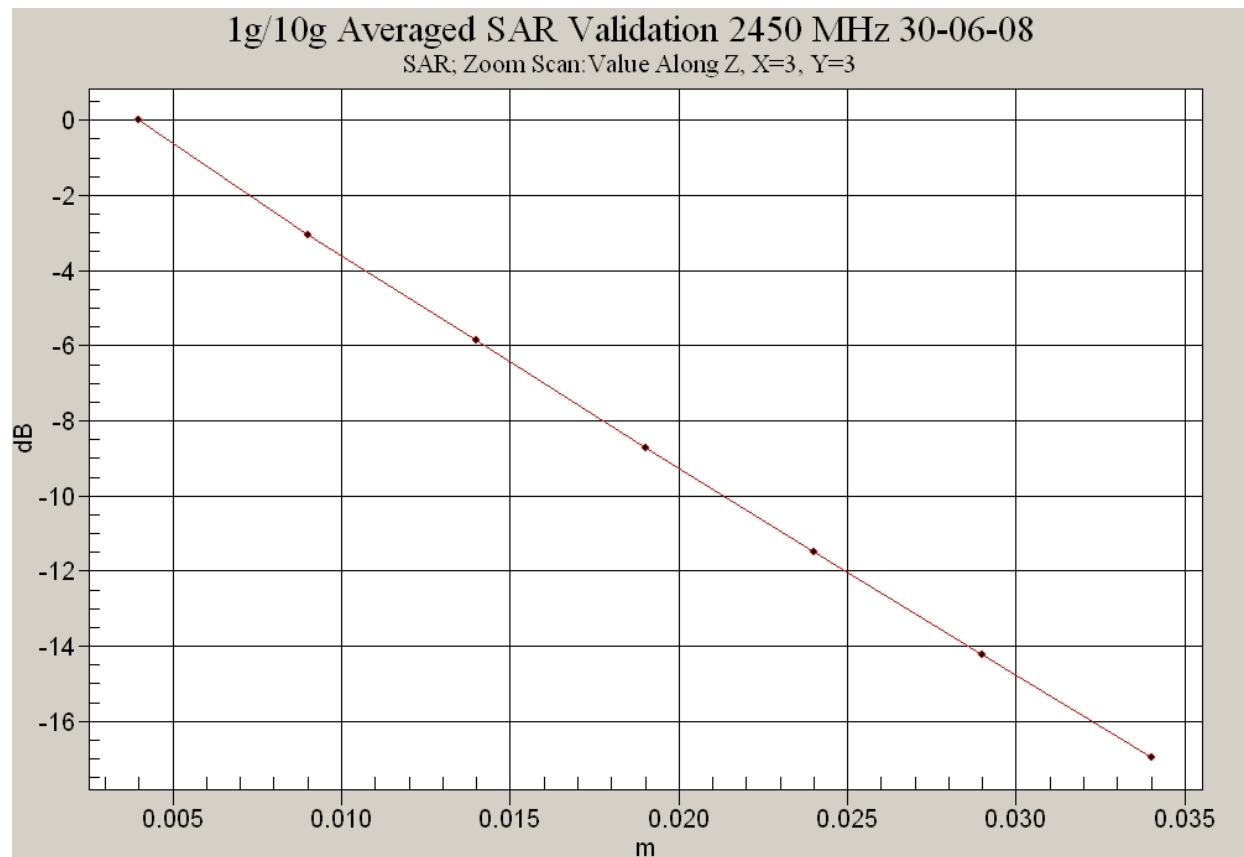


SAR MEASUREMENT PLOT 12

Ambient Temperature
Liquid Temperature
Humidity

19.5 Degrees Celsius
19.4 Degrees Celsius
48.0 %





This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au