

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.	Mod. Type	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Primary Portrait	1	DSSS	1	-	01
	2				06
	3				11
	4	OFDM	6	-	06
	5	MCS0	-	20	06
	6	MCS0	-	40	06
Primary Portrait*	7	DSSS	1	-	01
Tablet	8	DSSS	1	-	06
Secondary Landscape	9	DSSS	1	-	01
	10	DSSS	1	-	06
	11	DSSS	1	-	11

Table: 2450MHz Validation Plot

Plot 12	Validation 2450 MHz 30/07/2009
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Test Date: 30 July 2009

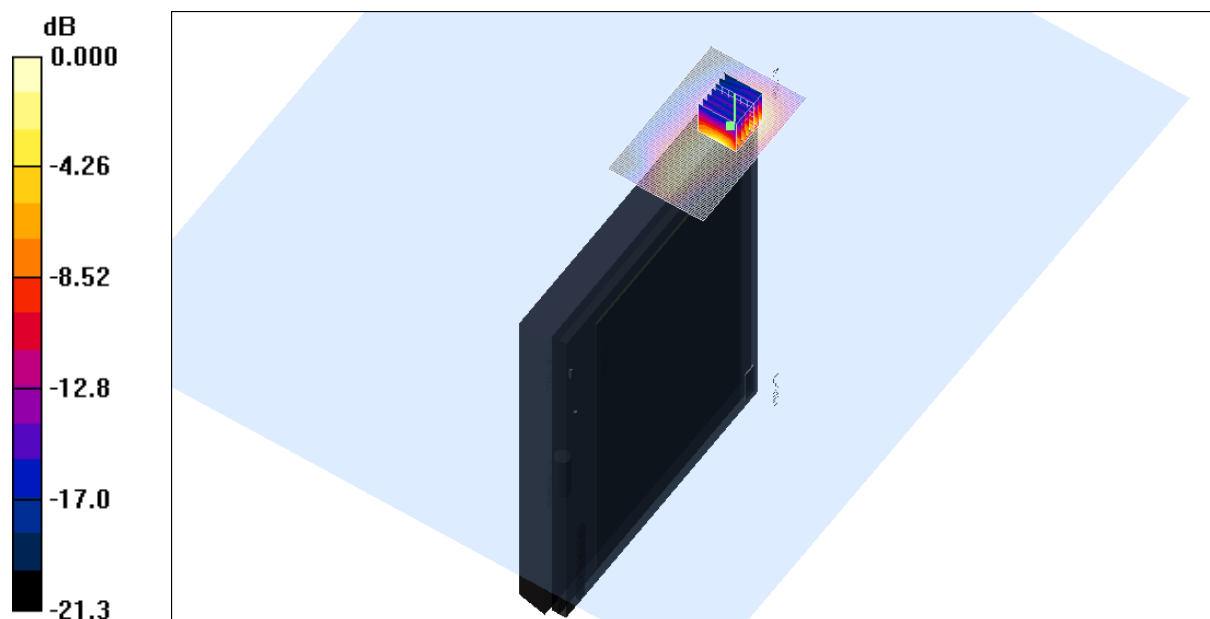
File Name: M090735 Primary Portrait DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321

- * Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2410$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.400 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 15.3 V/m; Power Drift = -0.170 dB
 Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.164 mW/g
 Maximum value of SAR (measured) = 0.427 mW/g



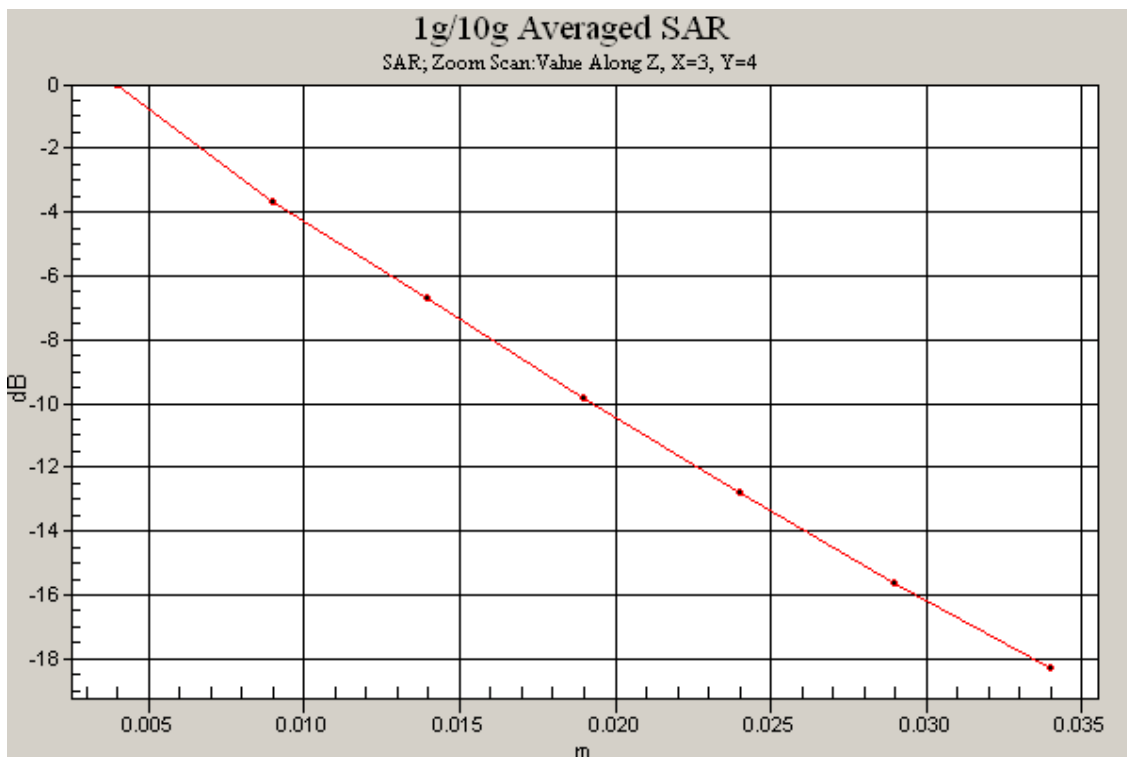
0 dB = 0.427mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





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Test Date: 30 July 2009

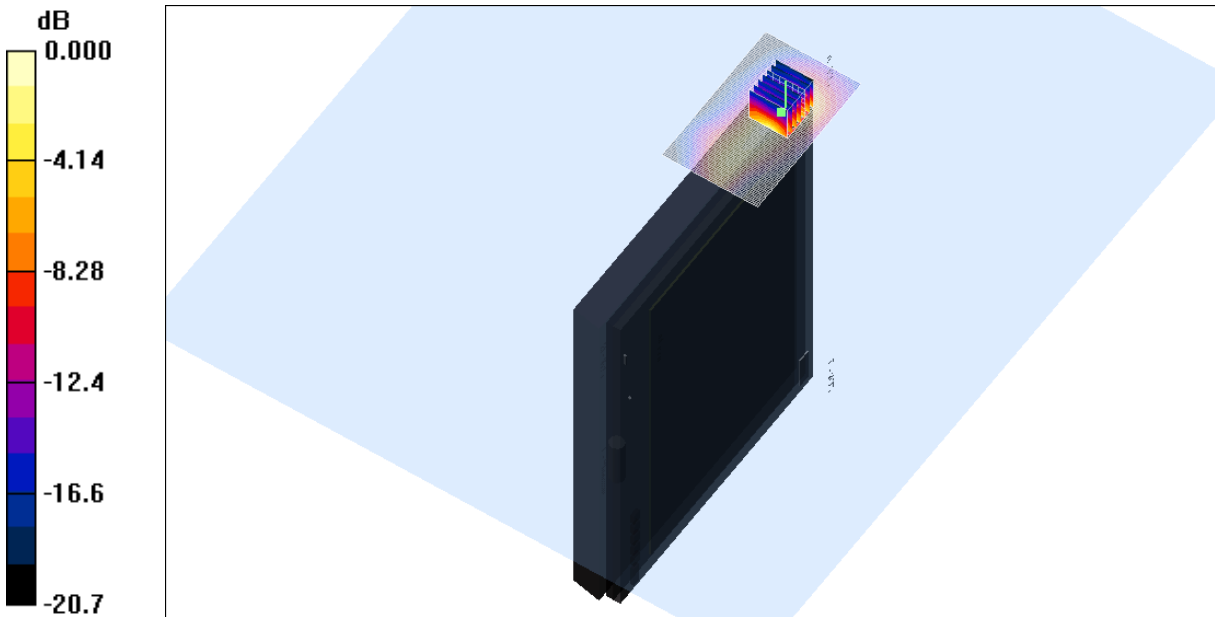
File Name: M090735 Primary Portrait DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321

- * Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.371 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 13.0 V/m; Power Drift = 0.028 dB
 Peak SAR (extrapolated) = 0.900 W/kg
SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.140 mW/g
 Maximum value of SAR (measured) = 0.361 mW/g

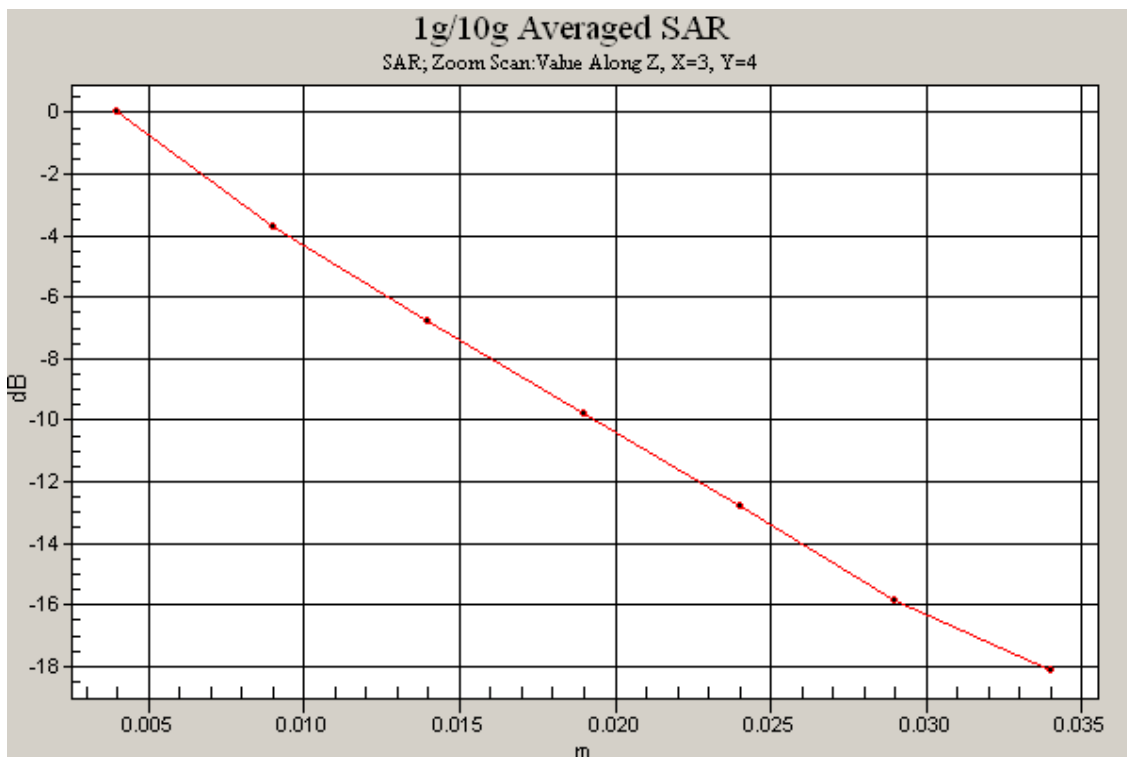


SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





Test Date: 30 July 2009

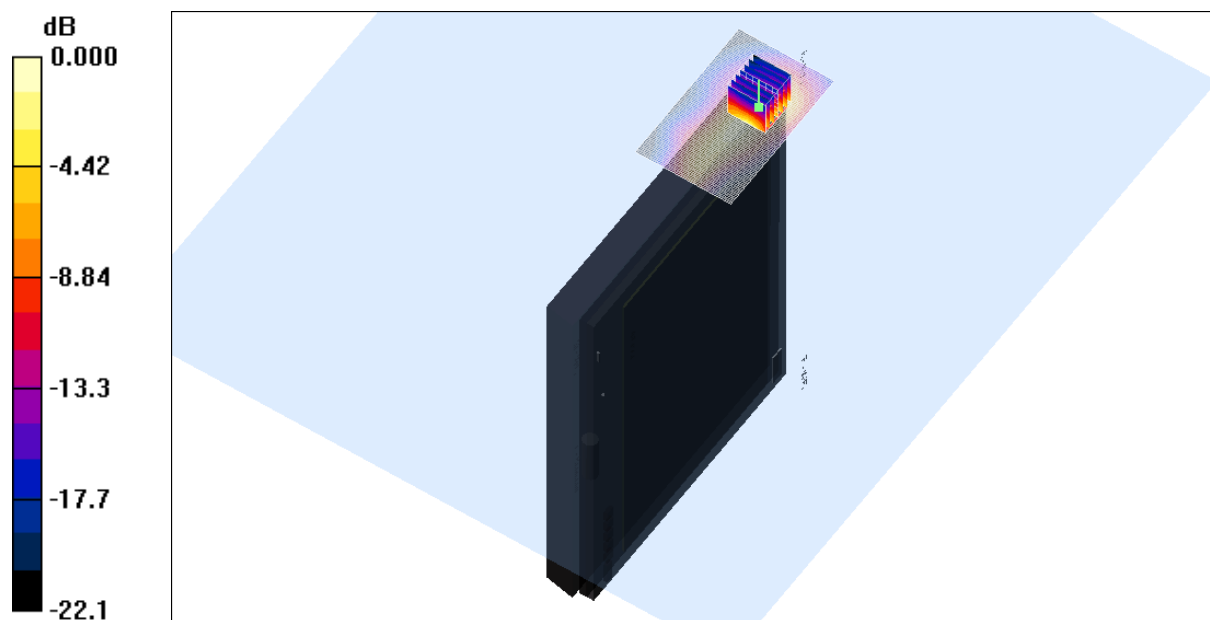
File Name: M090735 Primary Portrait DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321

- * Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2462$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 11 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.389 mW/g

Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 14.8 V/m; Power Drift = -0.063 dB
 Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.157 mW/g
 Maximum value of SAR (measured) = 0.408 mW/g

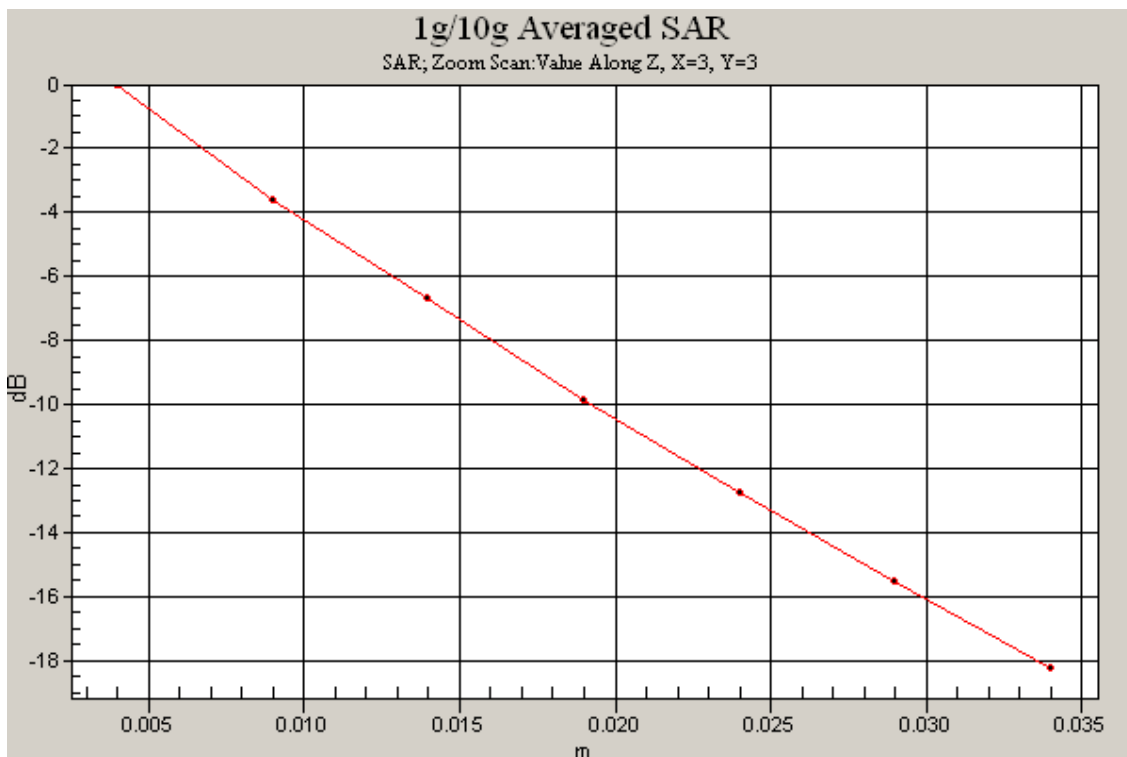


SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





Test Date: 30 July 2009

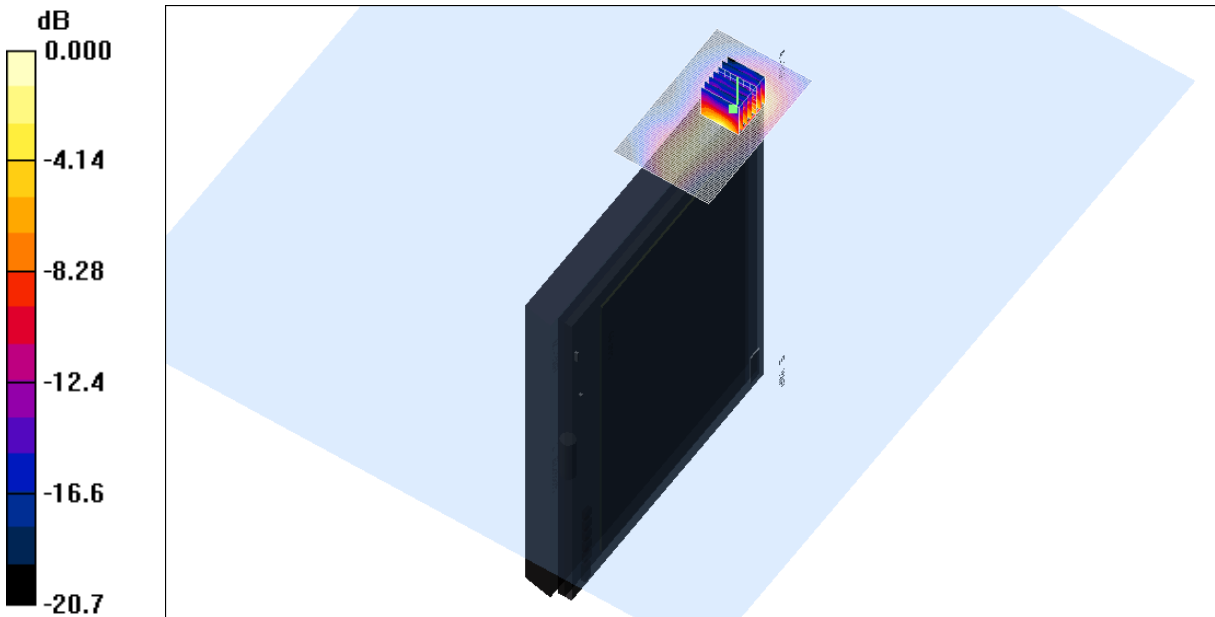
File Name: M090735 Primary Portrait OFDM 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: **Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321**

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.279 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 11.6 V/m; Power Drift = -0.119 dB
 Peak SAR (extrapolated) = 0.684 W/kg
SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.106 mW/g
 Maximum value of SAR (measured) = 0.272 mW/g



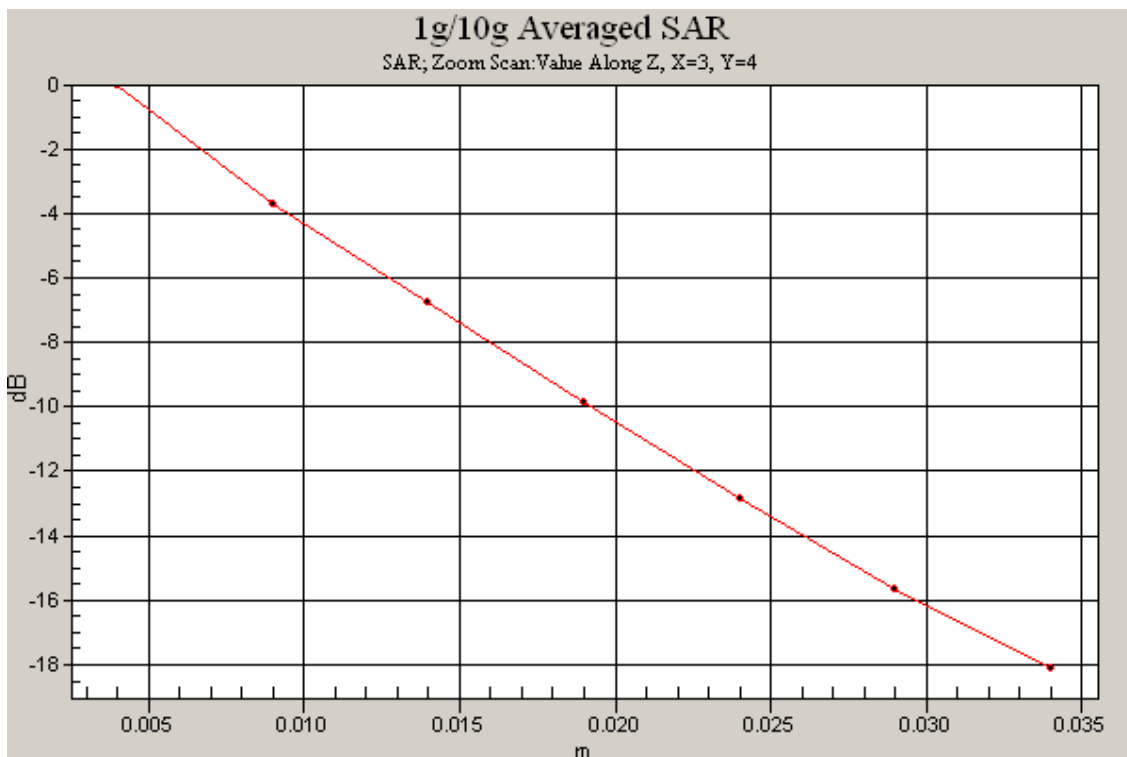
0 dB = 0.272mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
 Liquid Temperature
 Humidity

20.4 Degrees Celsius
 20.1 Degrees Celsius
 44.0 %





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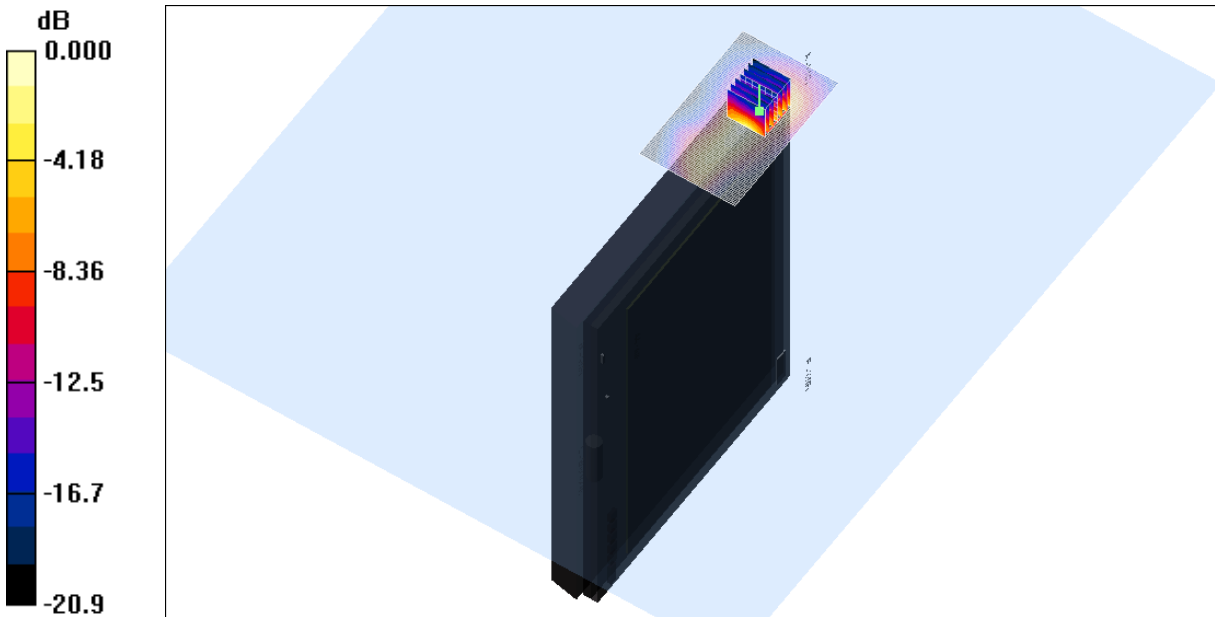
File Name: M090735 Primary Portrait MCS0-20MHz 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.274 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 11.3 V/m; Power Drift = -0.007 dB
 Peak SAR (extrapolated) = 0.673 W/kg
SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.105 mW/g
 Maximum value of SAR (measured) = 0.273 mW/g



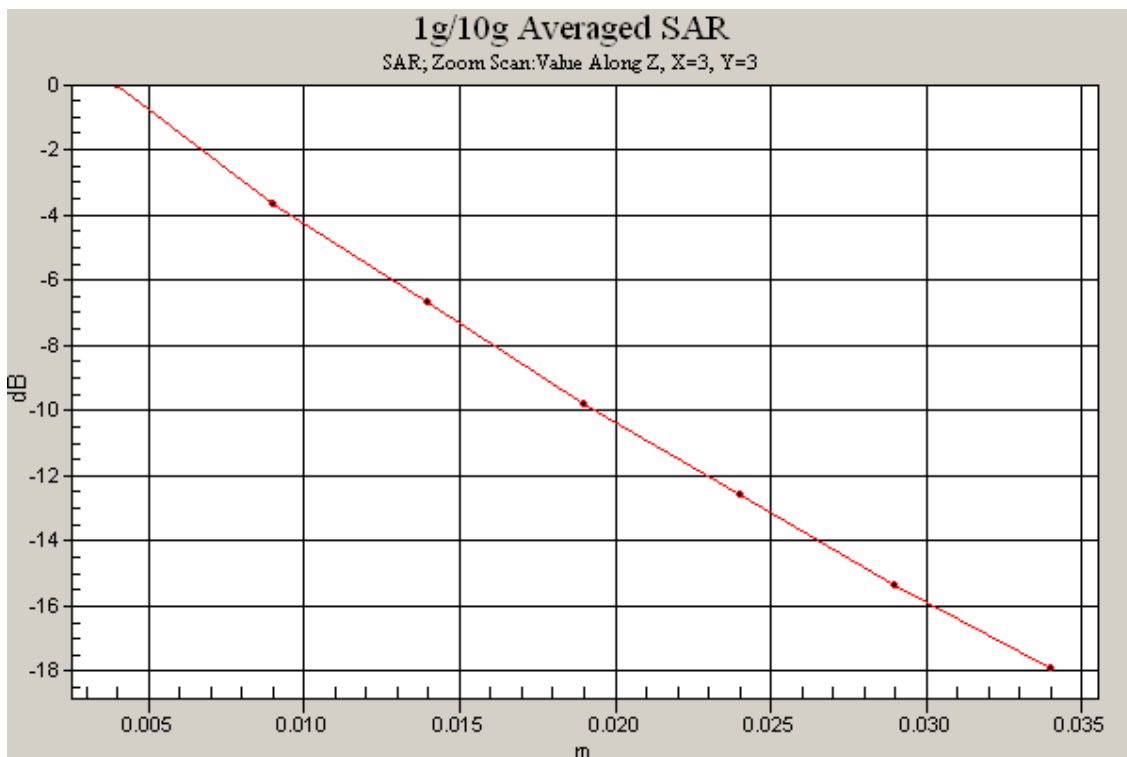
0 dB = 0.273mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





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Test Date: 30 July 2009

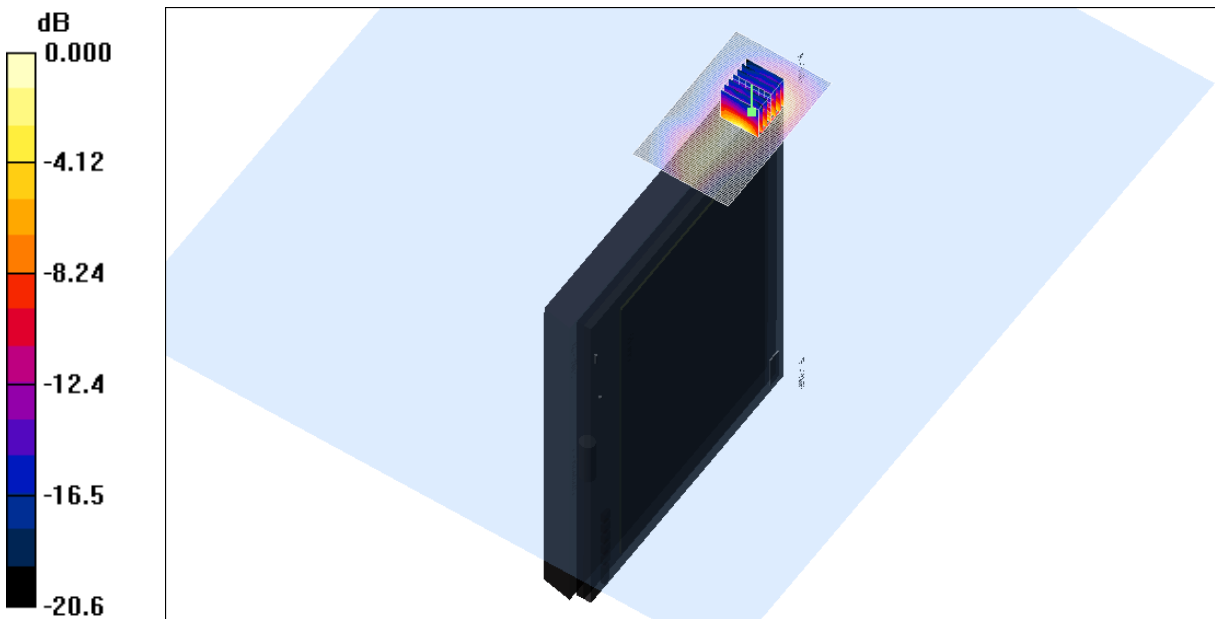
File Name: M090735 Primary Portrait MCS0-40MHz 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: **Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321**

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.232 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 10.6 V/m; Power Drift = -0.085 dB
 Peak SAR (extrapolated) = 0.568 W/kg
SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.088 mW/g
 Maximum value of SAR (measured) = 0.230 mW/g

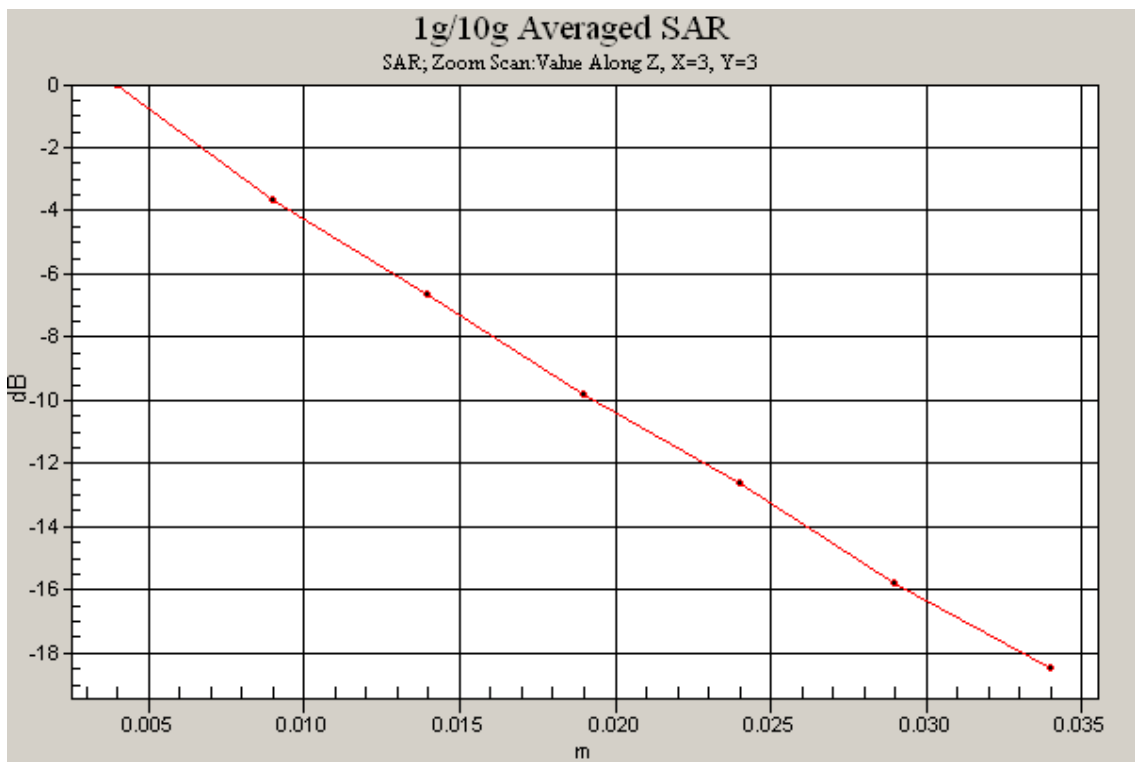


SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





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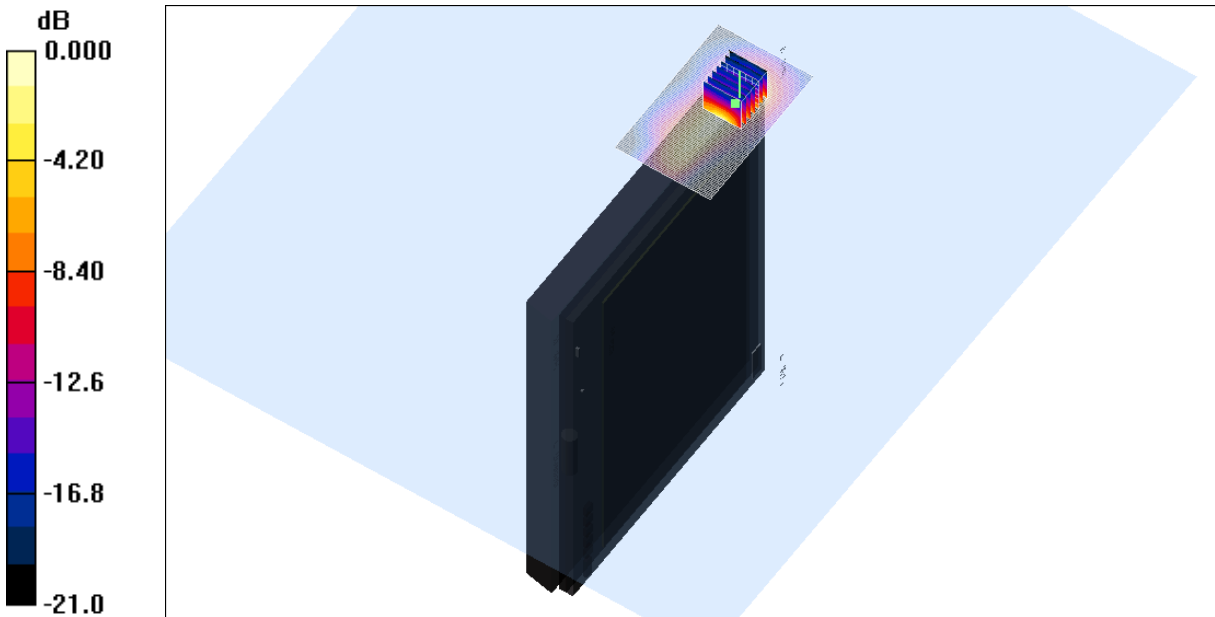
File Name: M090735 Primary Portrait DSSS 2.4 GHz Antenna A (1) Battery 5.2 Ah 30-07-09.da4

DUT: **Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321**

- * Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2410 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.411 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 12.7 V/m; Power Drift = 0.108 dB
 Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.156 mW/g
 Maximum value of SAR (measured) = 0.416 mW/g

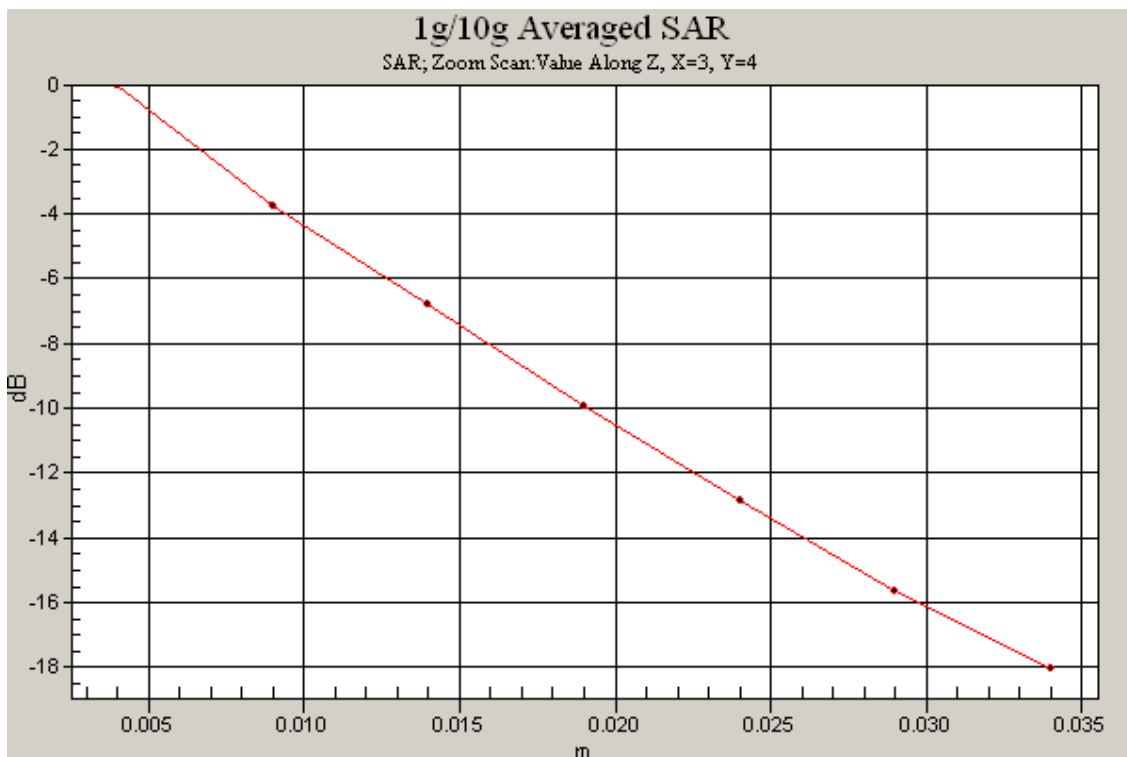


SAR MEASUREMENT PLOT 7

Ambient Temperature
 Liquid Temperature
 Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





Test Date: 30 July 2009

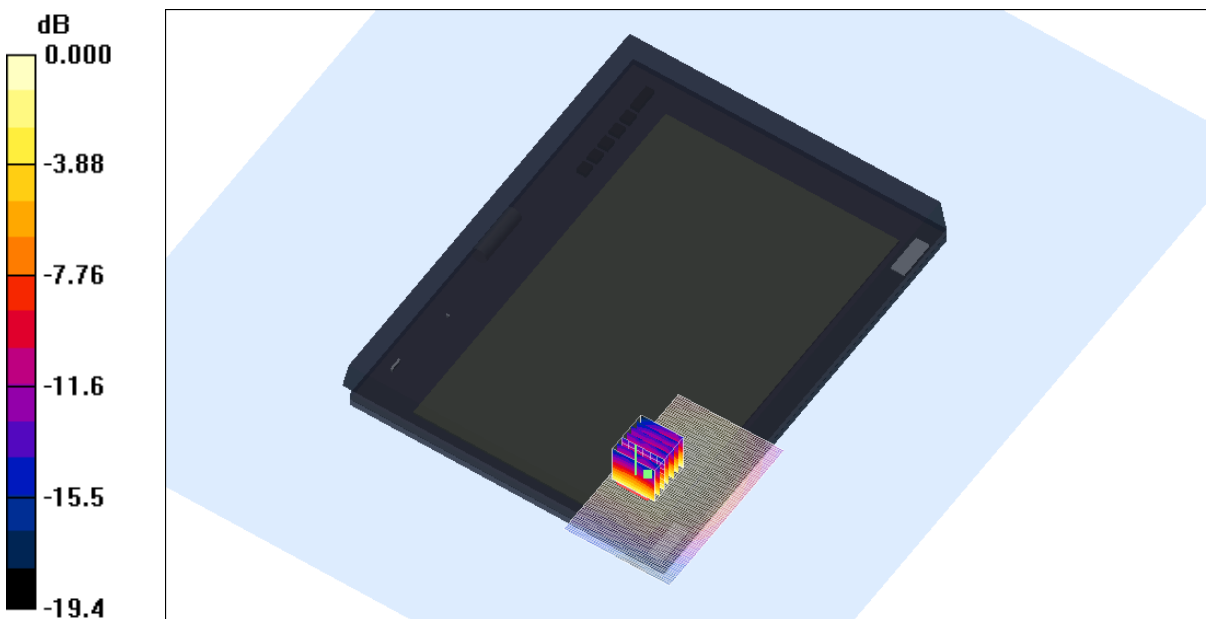
File Name: M090735 Tablet DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321

- * Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.106 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.06 V/m; Power Drift = 0.089 dB
Peak SAR (extrapolated) = 0.229 W/kg
SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.115 mW/g



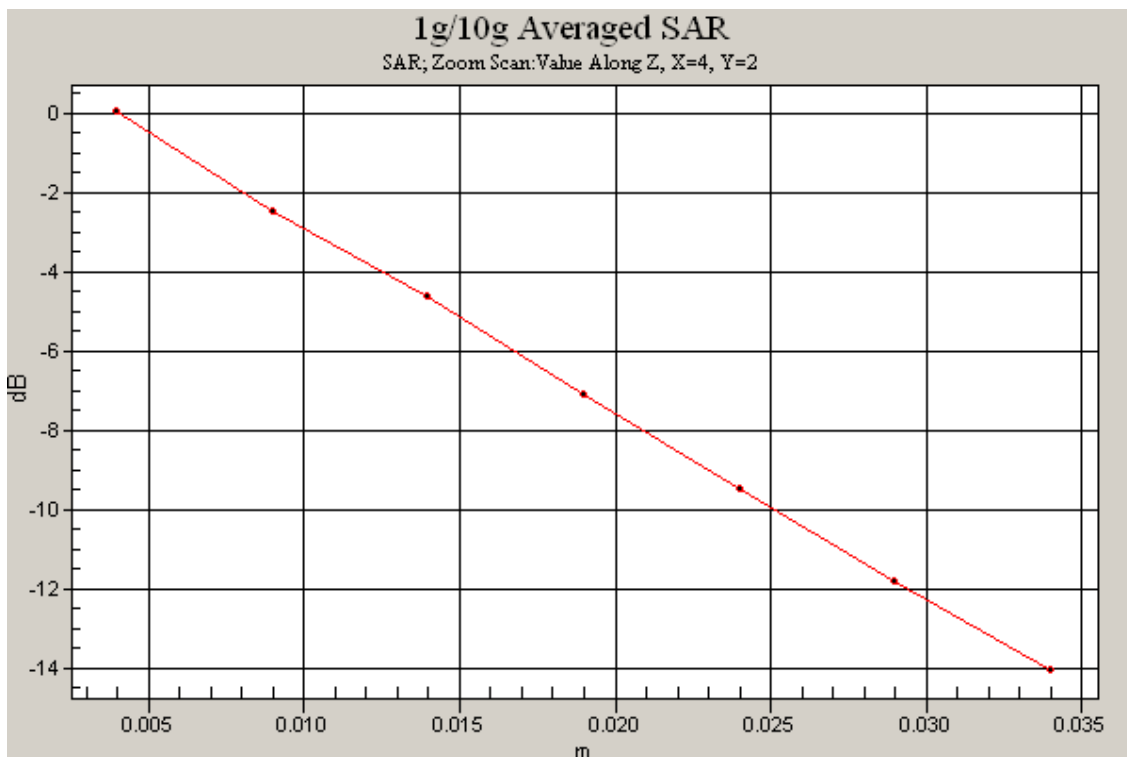
0 dB = 0.115mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





Test Date: 30 July 2009

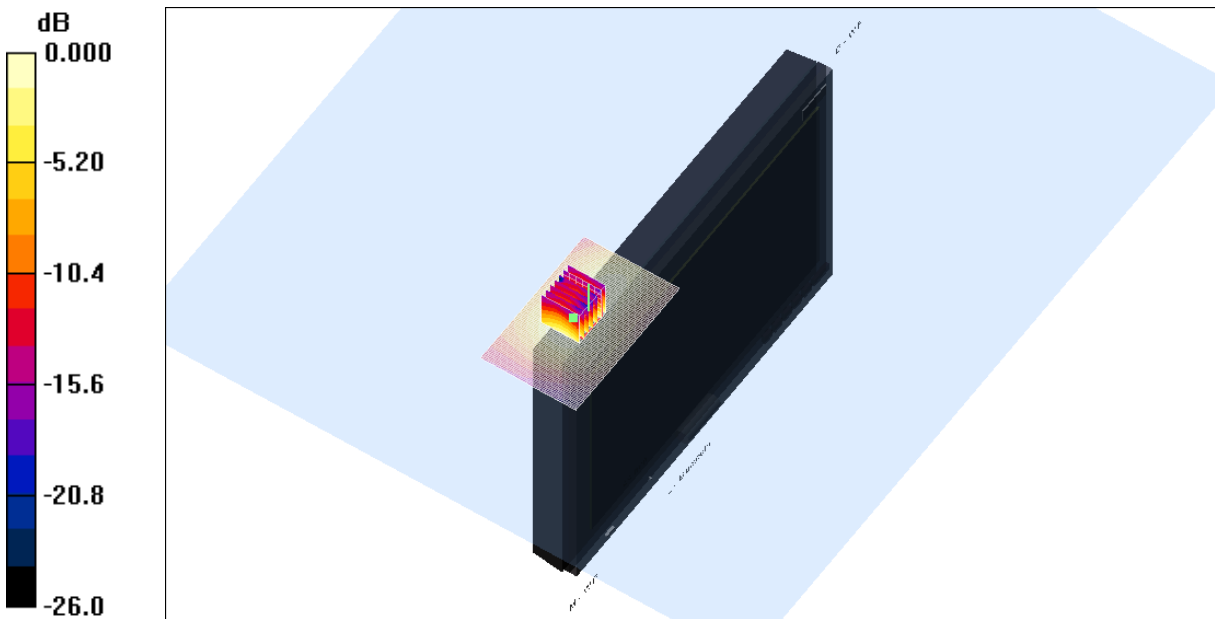
File Name: M090735 Secondary Landscape DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: **Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321**

- * Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2410$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.177 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 6.24 V/m; Power Drift = -0.136 dB
 Peak SAR (extrapolated) = 0.368 W/kg
SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.091 mW/g
 Maximum value of SAR (measured) = 0.183 mW/g

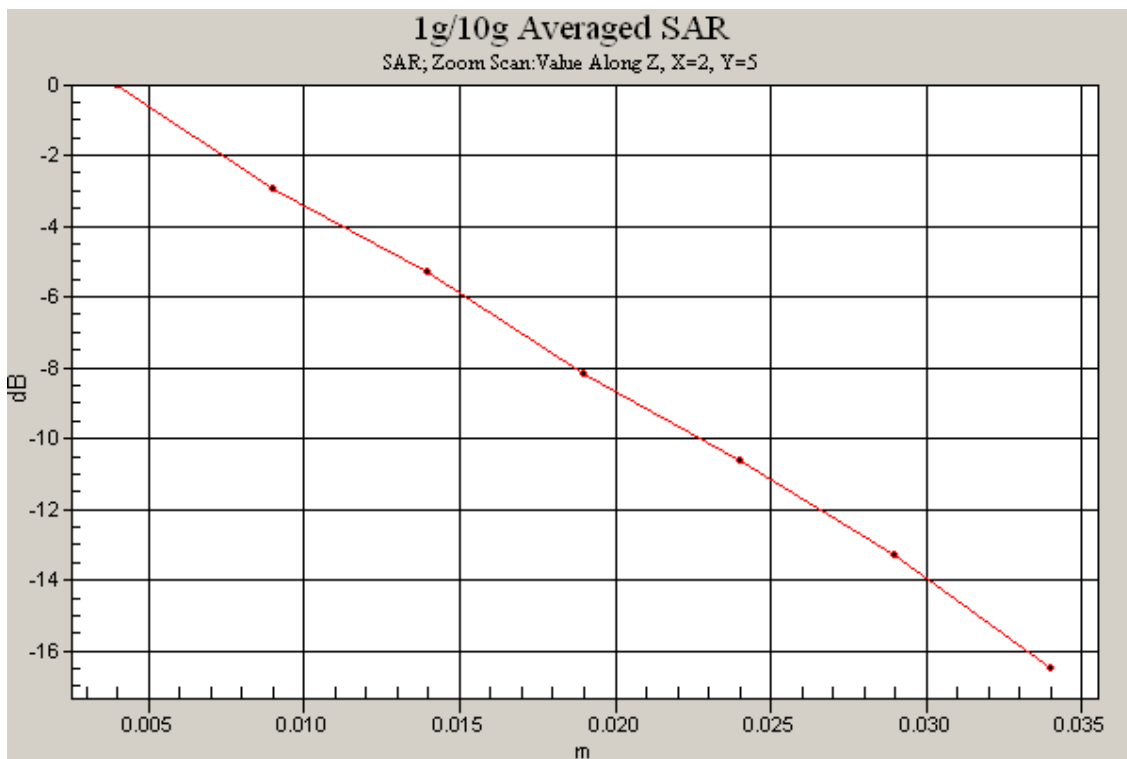


SAR MEASUREMENT PLOT 9

Ambient Temperature
 Liquid Temperature
 Humidity

20.4 Degrees Celsius
20.1 Degrees Celsius
44.0 %





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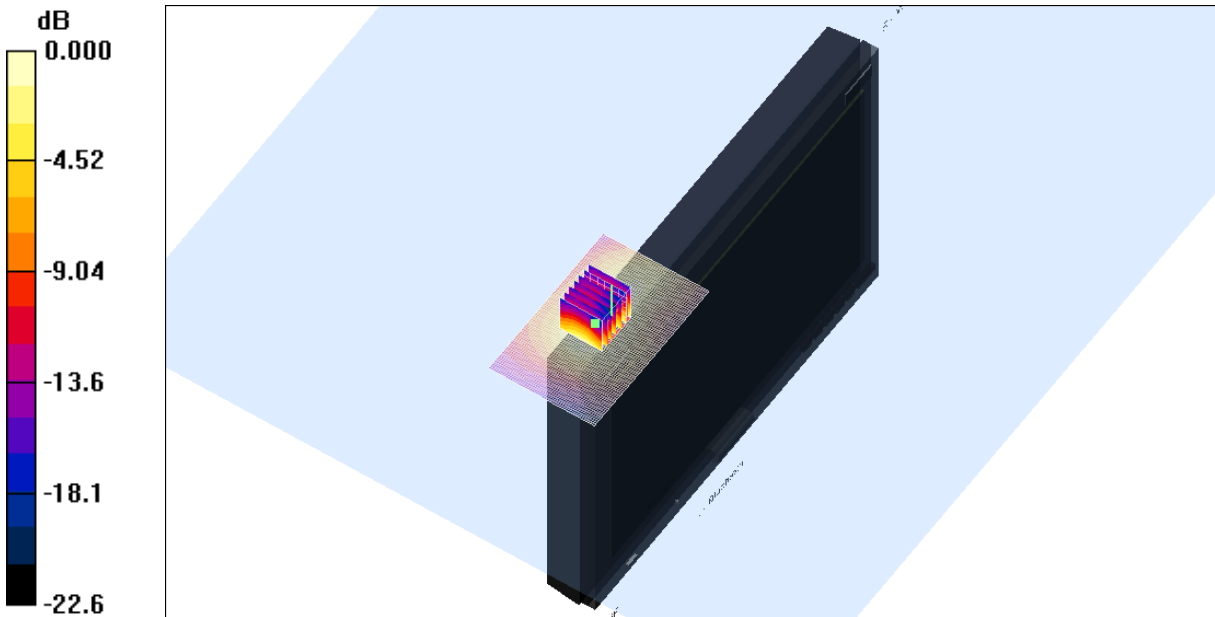
File Name: M090735 Secondary Landscape DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: **Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321**

- * Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.168 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 6.15 V/m; Power Drift = -0.360 dB
 Peak SAR (extrapolated) = 0.379 W/kg
SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.092 mW/g
 Maximum value of SAR (measured) = 0.186 mW/g



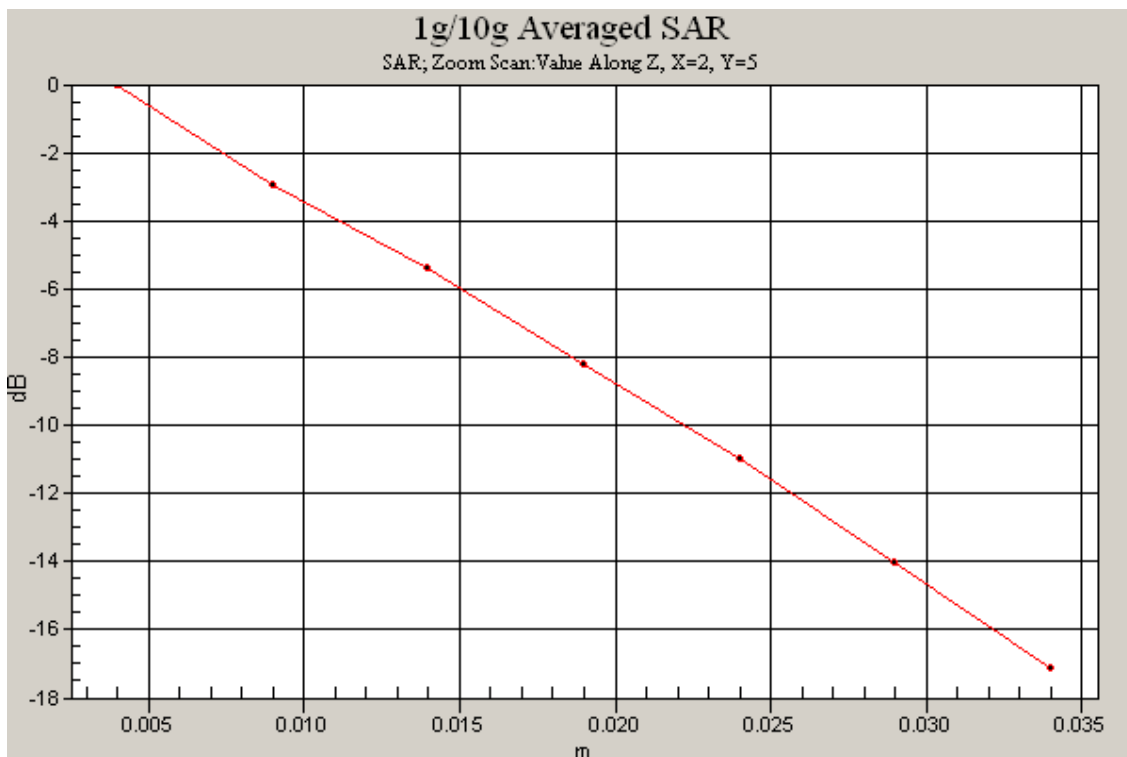
0 dB = 0.186mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature
 Liquid Temperature
 Humidity

20.4 Degrees Celsius
 20.1 Degrees Celsius
 44.0 %





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Test Date: 30 July 2009

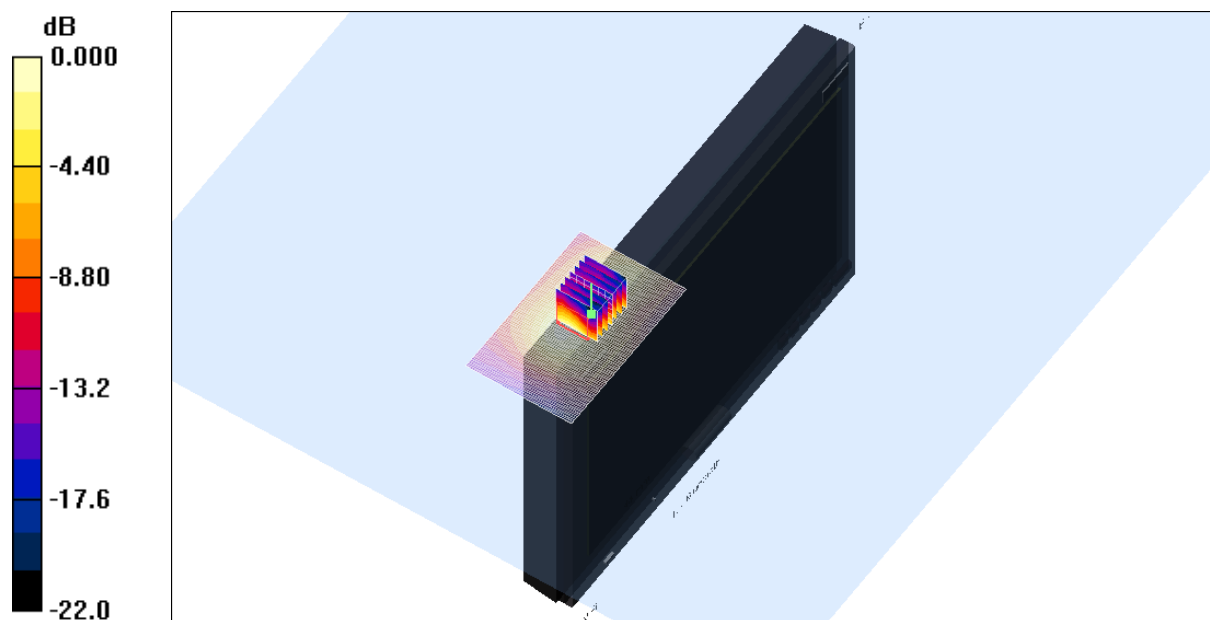
File Name: M090735 Secondary Landscape DSSS 2.4 GHz Antenna A (1) 30-07-09.da4

DUT: Fujitsu Tablet Chaldea with HB91 bgn; Type: AR5B91; Serial: ZX9583321

- * Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2462$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(3.96, 3.96, 3.96)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 11 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.189 mW/g

Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 5.96 V/m; Power Drift = -0.329 dB
 Peak SAR (extrapolated) = 0.393 W/kg
SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.091 mW/g
 Maximum value of SAR (measured) = 0.191 mW/g



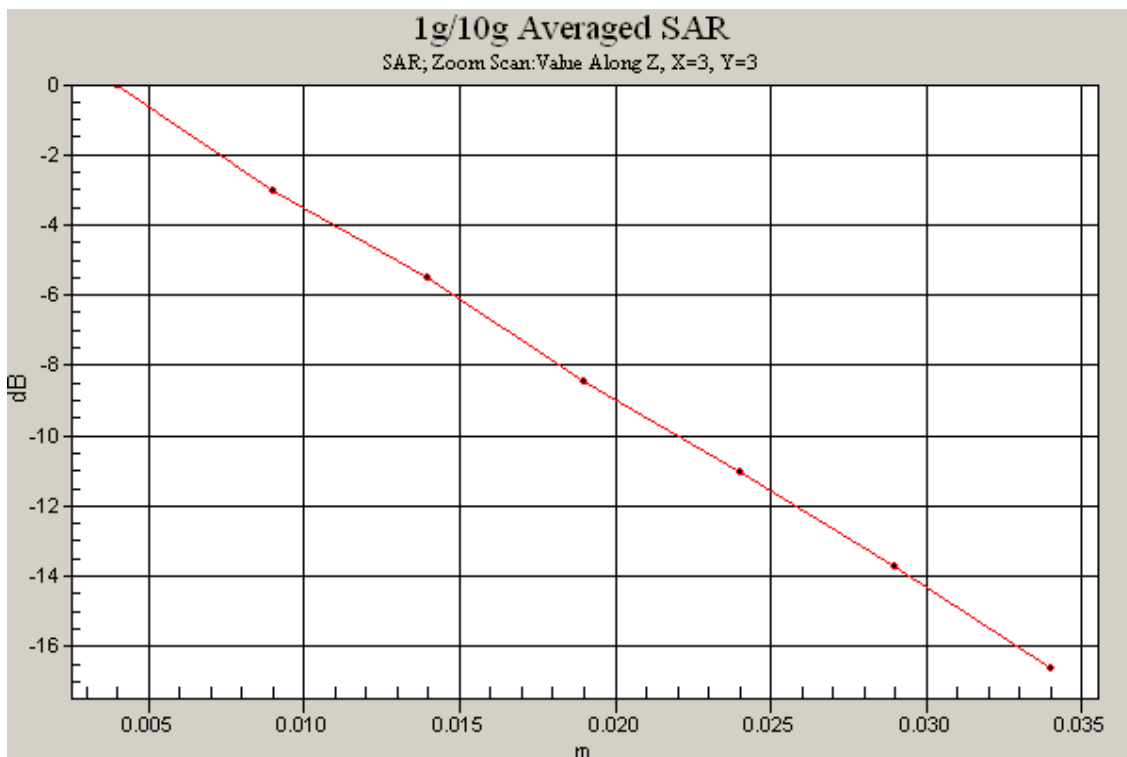
0 dB = 0.191mW/g

SAR MEASUREMENT PLOT 11

Ambient Temperature
 Liquid Temperature
 Humidity

20.4 Degrees Celsius
 20.1 Degrees Celsius
 44.0 %





Test Date: 30 July 2009

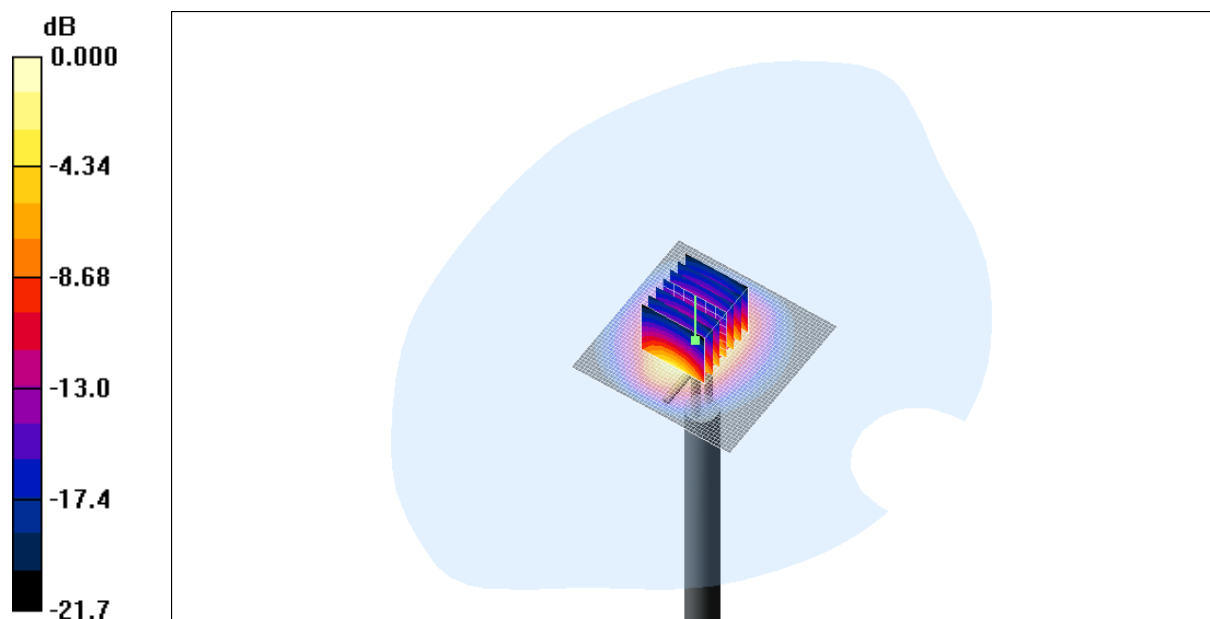
File Name: Validation 2450 MHz (DAE442 Probe1380) 30-07-09.da4

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; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.52, 4.52, 4.52)
- 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) = 18.2 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 93.6 V/m; Power Drift = 0.009 dB
 Peak SAR (extrapolated) = 30.2 W/kg
SAR(1 g) = 13.6 mW/g; SAR(10 g) = 6.28 mW/g
 Maximum value of SAR (measured) = 15.3 mW/g



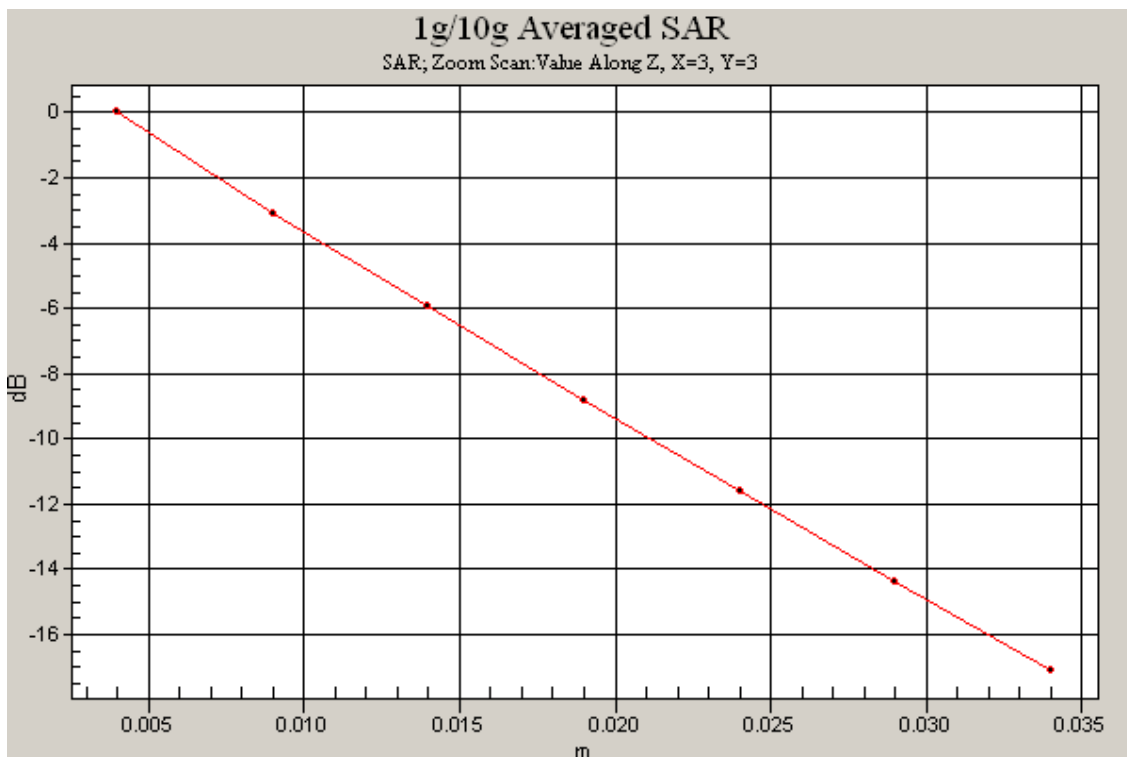
0 dB = 15.3mW/g

SAR MEASUREMENT PLOT 12

Ambient Temperature
 Liquid Temperature
 Humidity

20.4 Degrees Celsius
 20.1 Degrees Celsius
 44.0 %





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