

Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Appendix 2. Measurement Methods

A.2.1. Evaluation Procedure

The Specific Absorption Rate (SAR) evaluation was performed in the following manner:

- a) (i) The evaluation was performed in an applicable area of the phantom depending on the type of device being tested. For devices worn about the ear during normal operation, both the left and right ear positions were evaluated at the centre frequency of the band at maximum power. The side, which produced the greatest SAR, determined which side of the phantom would be used for the entire evaluation. The positioning of the head worn device relative to the phantom was dictated by the test specification identified in section 3.1 of this report.

(ii) For body worn devices or devices which can be operated within 20 cm of the body, the flat section of the phantom was used. The type of device being evaluated dictated the distance of the EUT to the outer surface of the phantom flat section.
 - b) The SAR was determined by a pre-defined procedure within the DASY4 software. The exposed region of the phantom was scanned near the inner surface with a grid spacing of 20mm x 20mm or appropriate resolution.
 - c) A 5x5x7 & 7x7x7 matrix were performed around the greatest spatial SAR distribution found during the area scan of the applicable exposed region. SAR values were then calculated using a 3-D spline interpolation algorithm and averaged over spatial volumes of 1 and 10 grams.
 - d) If the EUT had any appreciable drift over the course of the evaluation, then the EUT was re-evaluated. Any unusual anomalies over the course of the test also warranted a re-evaluation.
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Appendix 3. SAR Distribution Scans

This appendix contains SAR distribution scans which are not included in the total number of pages for this report.

Scan Reference Number	Title
SCN/49365JD03/001	Sony Vaio EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Low
SCN/49365JD03/002	Sony Vaio EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Low
SCN/49365JD03/003	Sony Vaio EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Middle
SCN/49365JD03/004	Sony Vaio EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle
SCN/49365JD03/005	Sony Vaio EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Top
SCN/49365JD03/006	Sony Vaio EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Top
SCN/49365JD03/007	Dell Latitude EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Middle (Top slot)
SCN/49365JD03/008	Dell Latitude EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Middle (Bottom slot)
SCN/49365JD03/009	Dell Latitude EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle (Bottom Slot)
SCN/49365JD03/010	Dell Latitude EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Bottom (Bottom Slot)
SCN/49365JD03/011	Dell Latitude EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Top (Bottom Slot)
SCN/49365JD03/012	Dell Latitude EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Top (Bottom slot)
SCN/49365JD03/013	Dell Latitude EUT 0 Degrees To Phantom 7_68 Mcps 10 MHz Channel Bottom (Bottom slot)
SCN/49365JD03/014	Dell Latitude EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle (Top Slot)
SCN/49365JD03/015	HP Compaq EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle (Bottom Slot)
SCN/49365JD03/016	HP Compaq EUT 0 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle (Bottom Slot)
SCN/49365JD03/017	HP Compaq EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle (Top Slot)
SCN/49365JD03/018	HP Compaq EUT 0 Degrees To Phantom 7_68 Mcps 10MHz Channel Middle (Top Slot)

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SAR Distribution Scans (Continued)

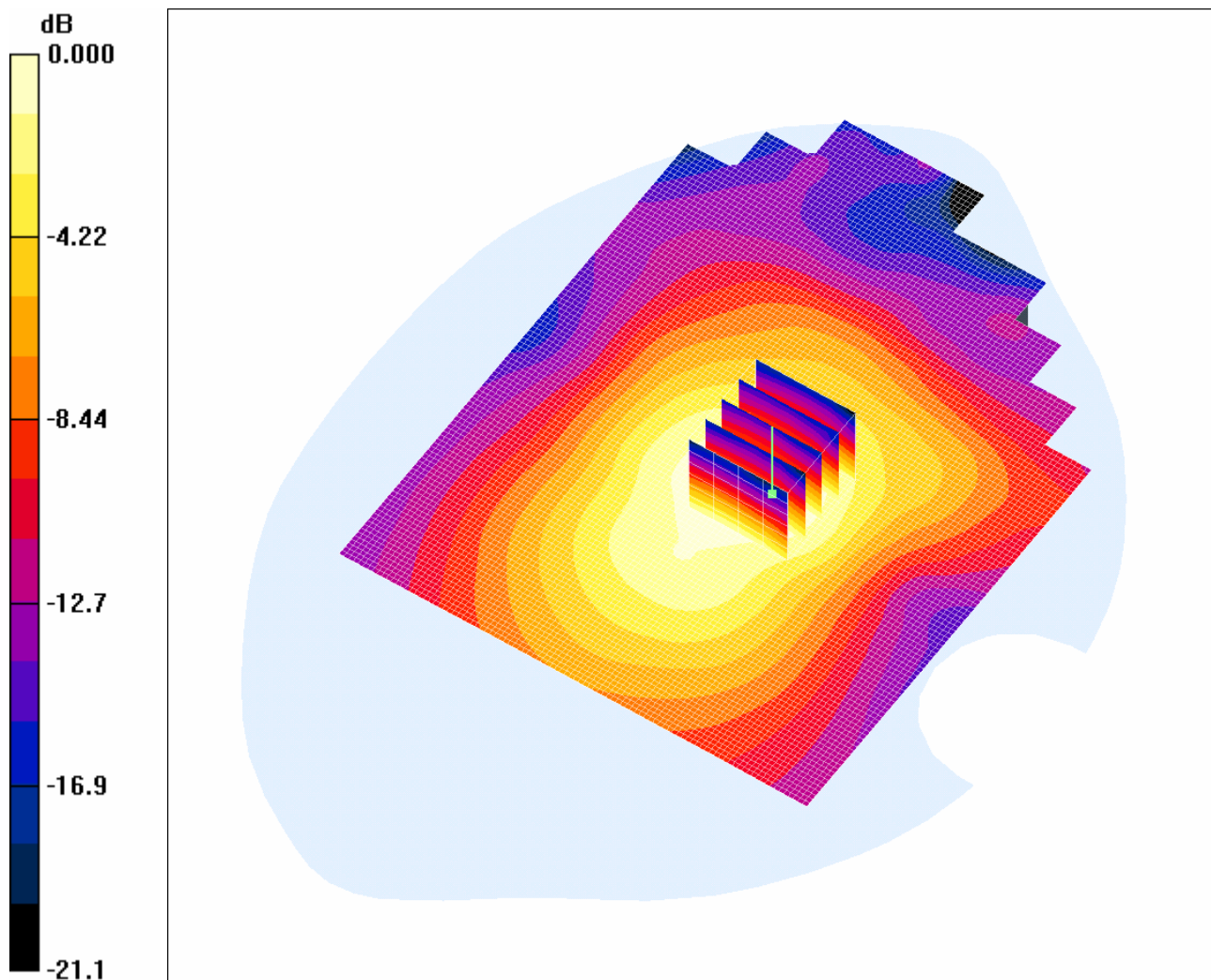
Scan Reference Number	Title
SCN/49365JD03/019	HP Compaq EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Low (Top Slot)
SCN/49365JD03/020	HP Compaq EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel High (Top Slot)
SCN/49365JD03/021	HP Compaq EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel Low (Bottom Slot)
SCN/49365JD03/022	HP Compaq EUT 90 Degrees To Phantom 7_68 Mcps 10MHz Channel High (Bottom Slot)
SCN/49365JD03/023	System Performance Check 29 08 07
SCN/49365JD03/024	System Performance Check 30 08 07
SCN/49365JD03/025	System Performance Check 31 08 07
SCN/49365JD03/026	System Performance Check 19 09 07

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SCN/49365JD03/001 Sony Vaio EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Low
DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.153mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Low/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.152 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.68 V/m; Power Drift = -0.299 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.083 mW/g

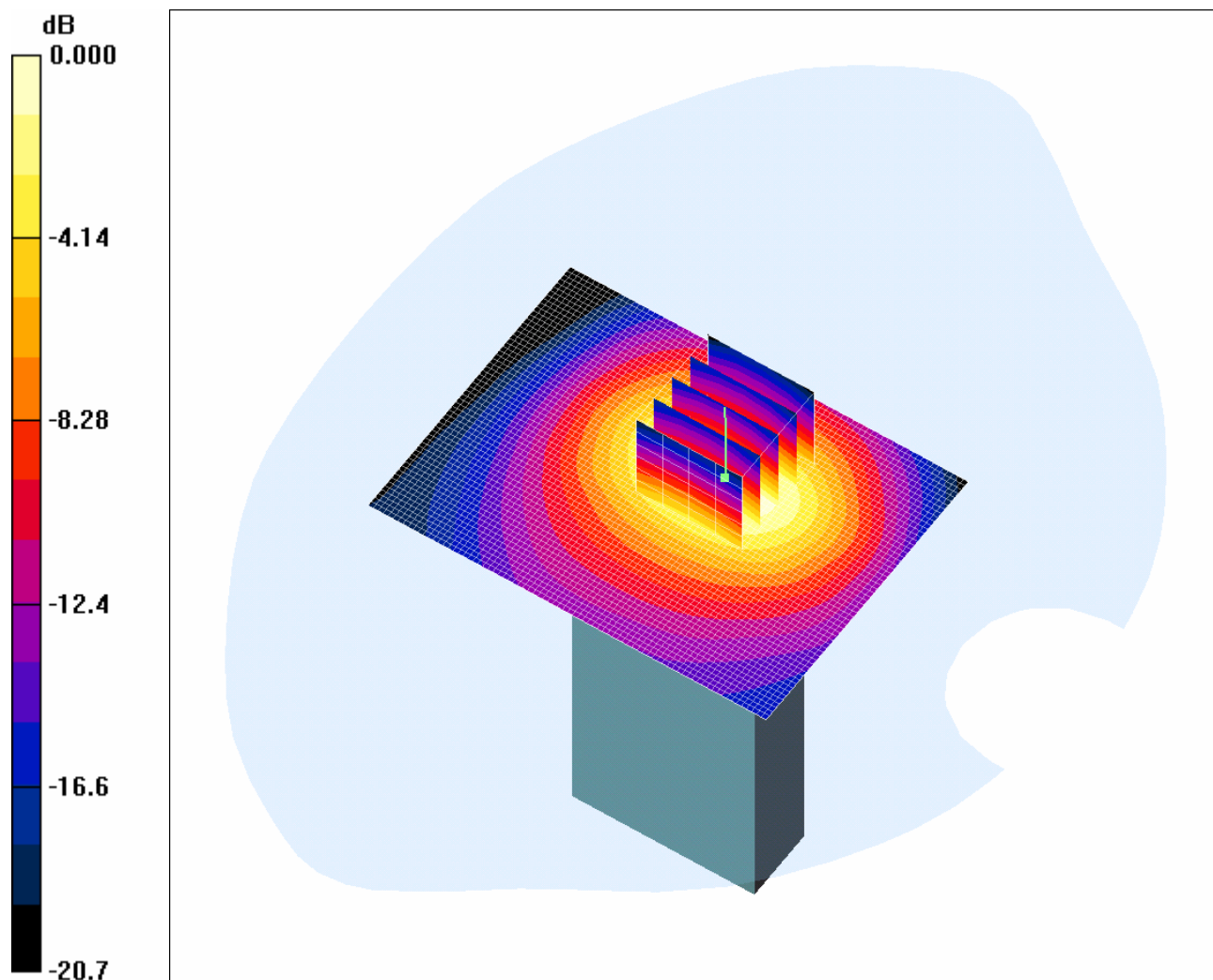
Maximum value of SAR (measured) = 0.153 mW/g

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SCN/49365JD03/002 Sony Vaio EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Low
DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.515mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Low/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.527 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.515 mW/g

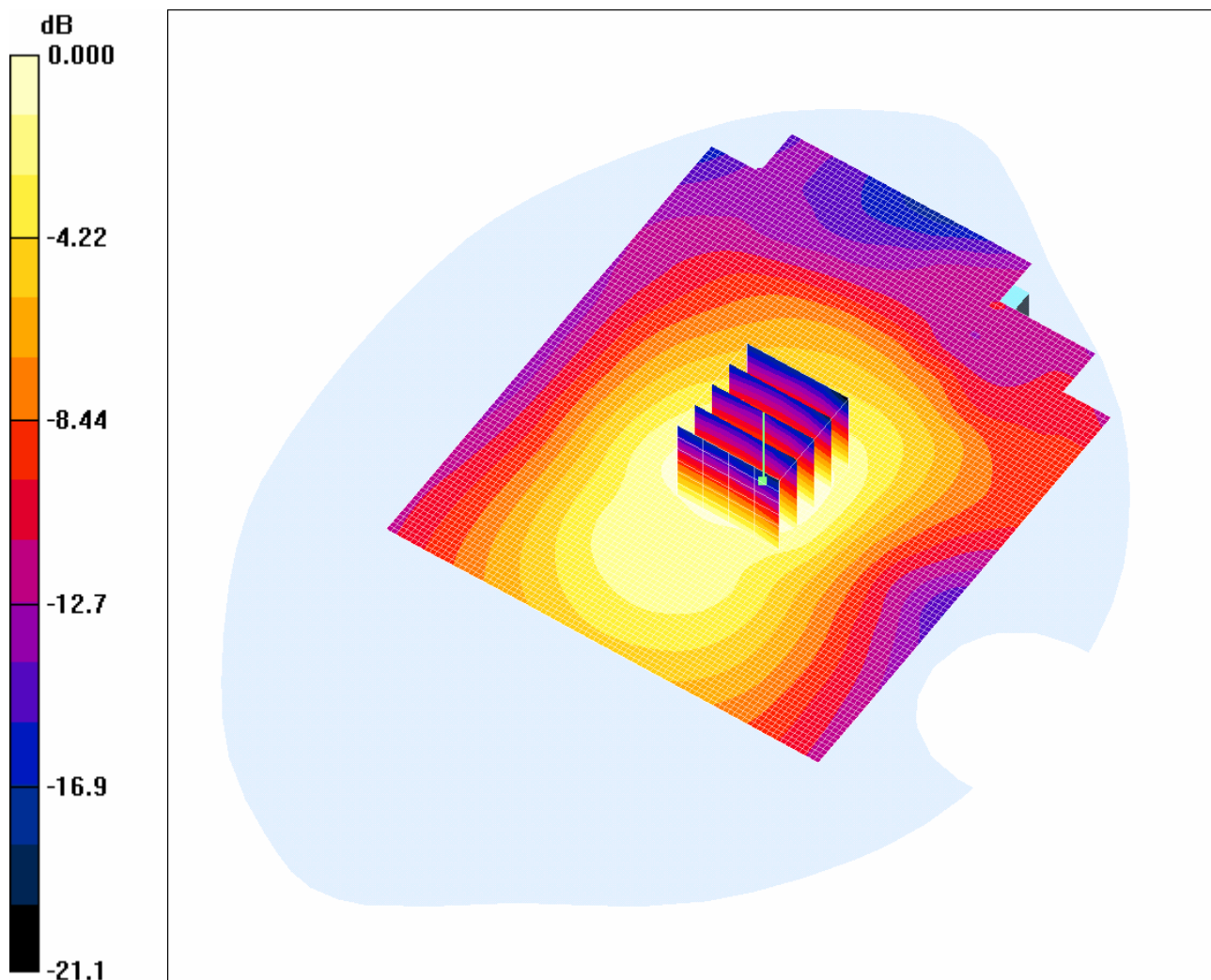
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SCN/49365JD03/003 Sony Vaio EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Middle

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.261mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.254 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.15 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.139 mW/g

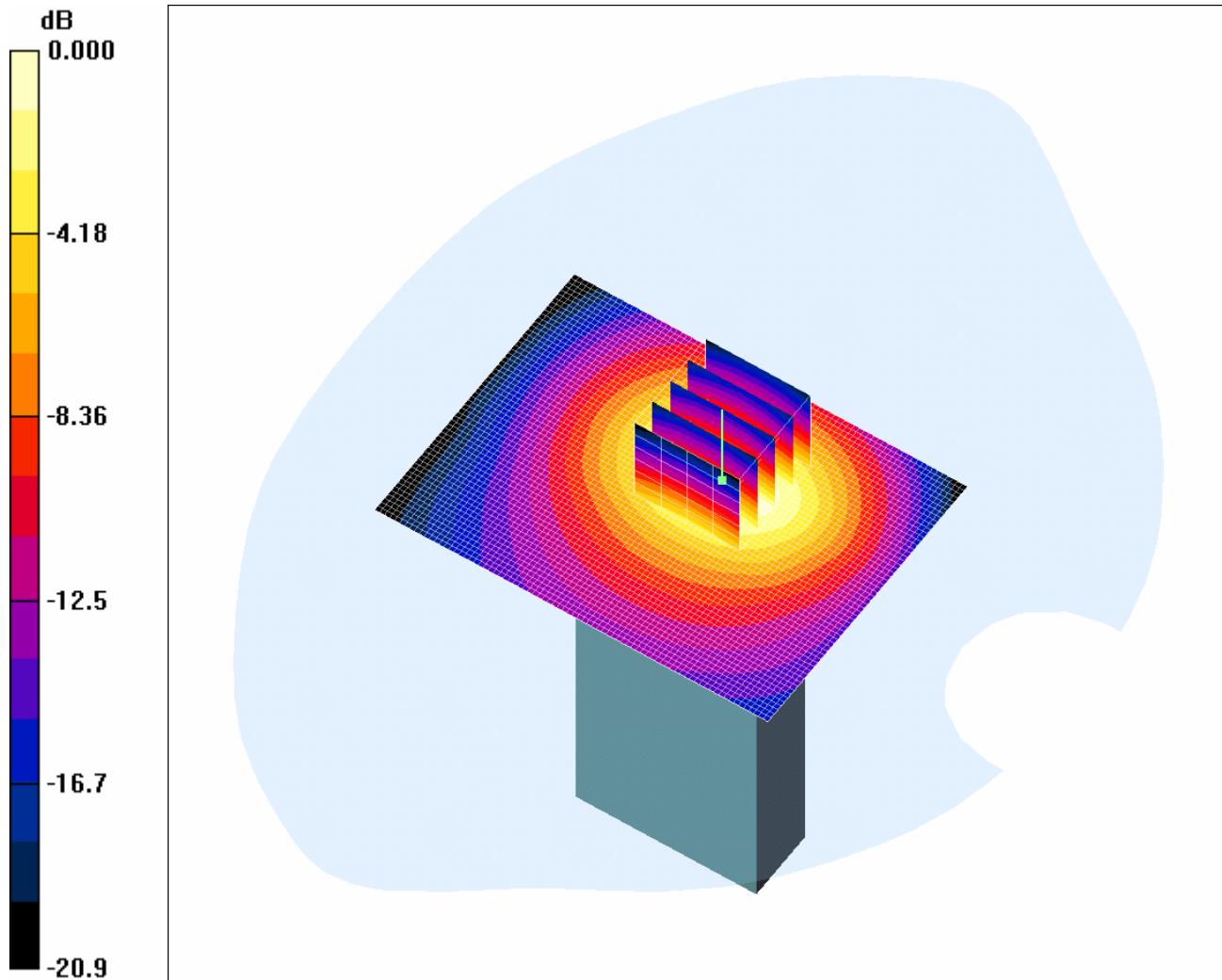
Maximum value of SAR (measured) = 0.261 mW/g

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SCN/49365JD03/004 Sony Vaio EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle
DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.634mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.656 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.9 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (measured) = 0.634 mW/g

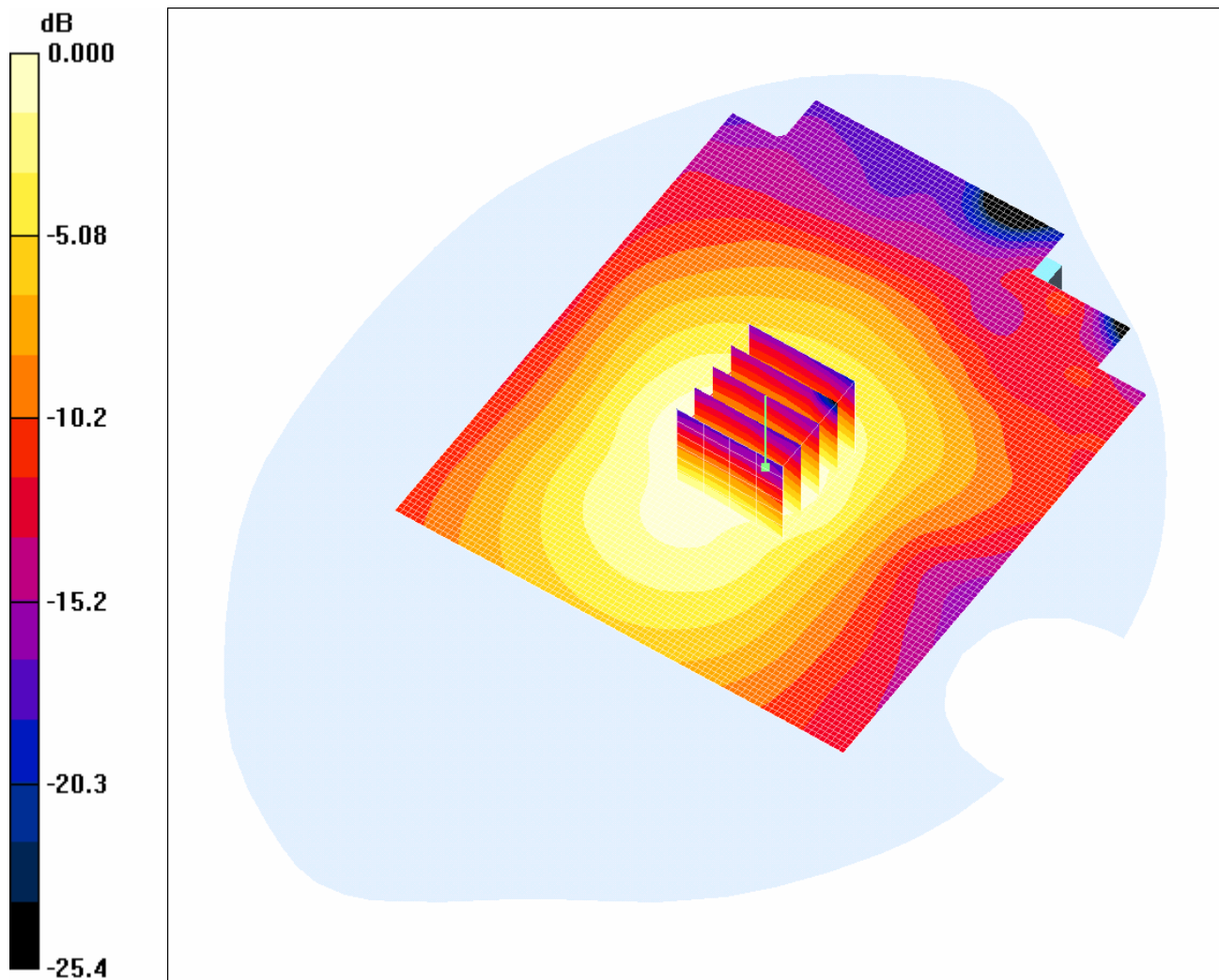
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SCN/49365JD03/005 Sony Vaio EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Top

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.178mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.28$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Top/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.180 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Top/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.79 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.178 mW/g

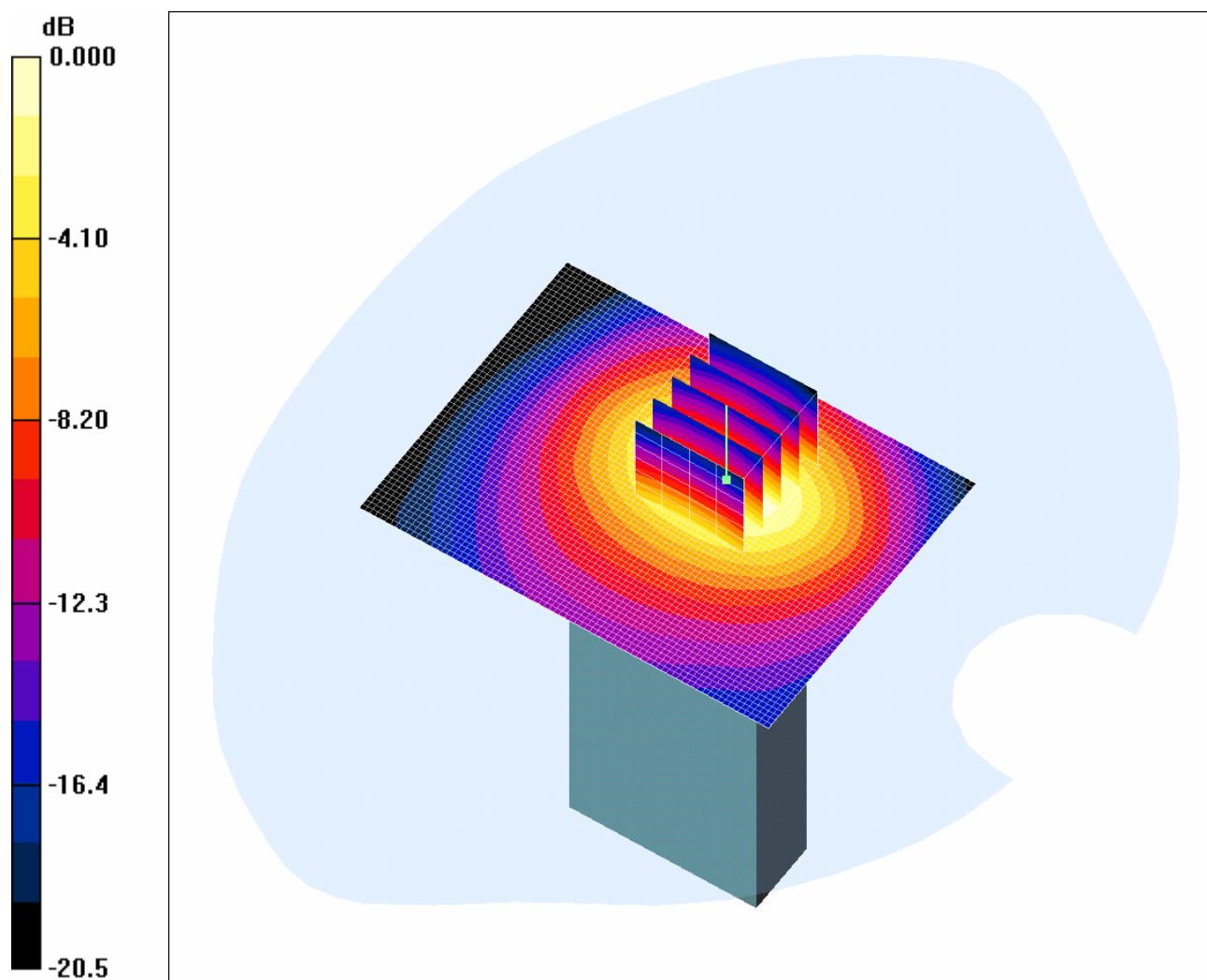
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SCN/49365JD03/006 Sony Vaio EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Top

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.543mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.28$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(8, 8, 8); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.558 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.543 mW/g

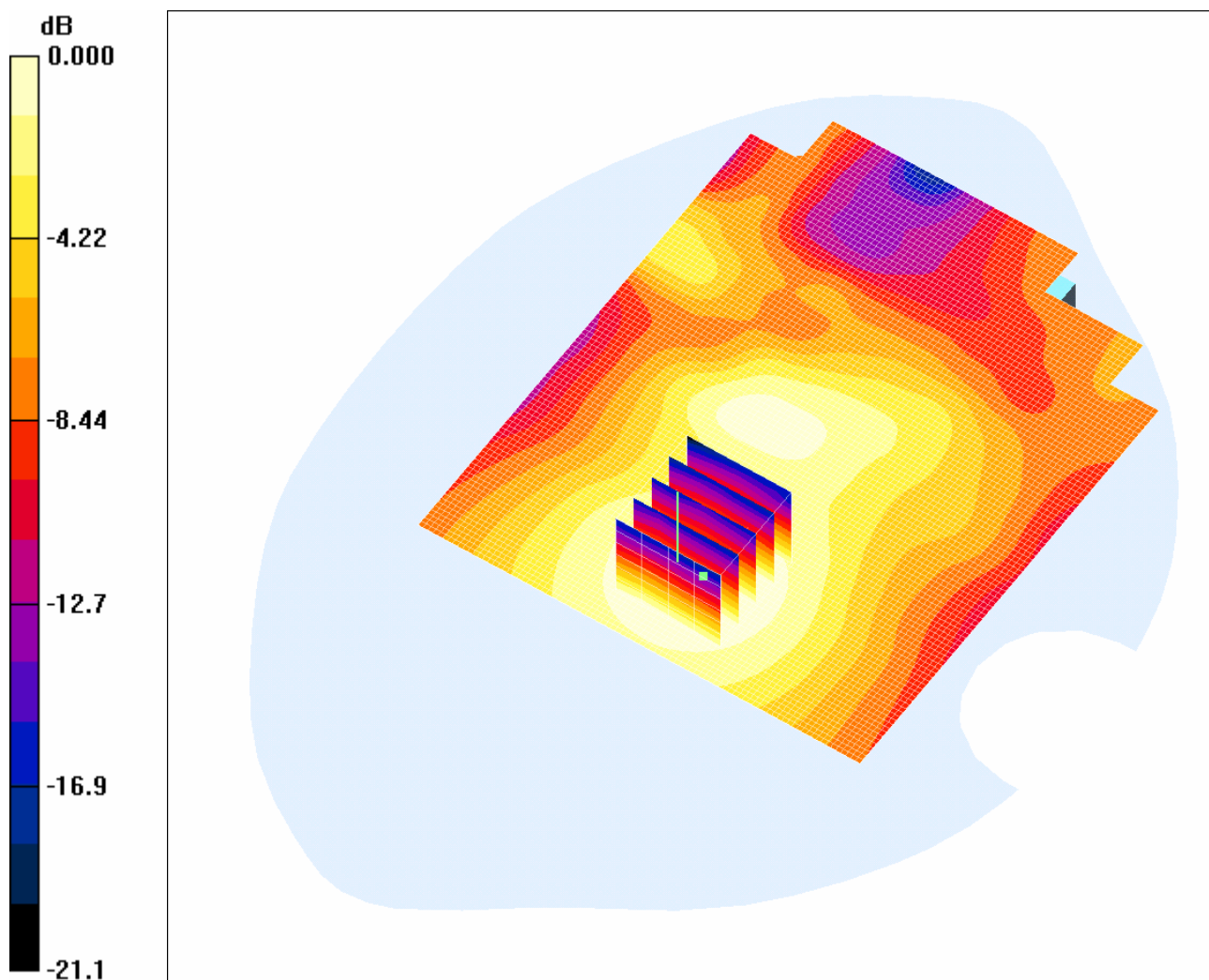
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SCN/49365JD03/007 Dell Latitude EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Middle (Top slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.172mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.175 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.39 V/m; Power Drift = 0.351 dB

Peak SAR (extrapolated) = 0.275 W/kg

SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.172 mW/g

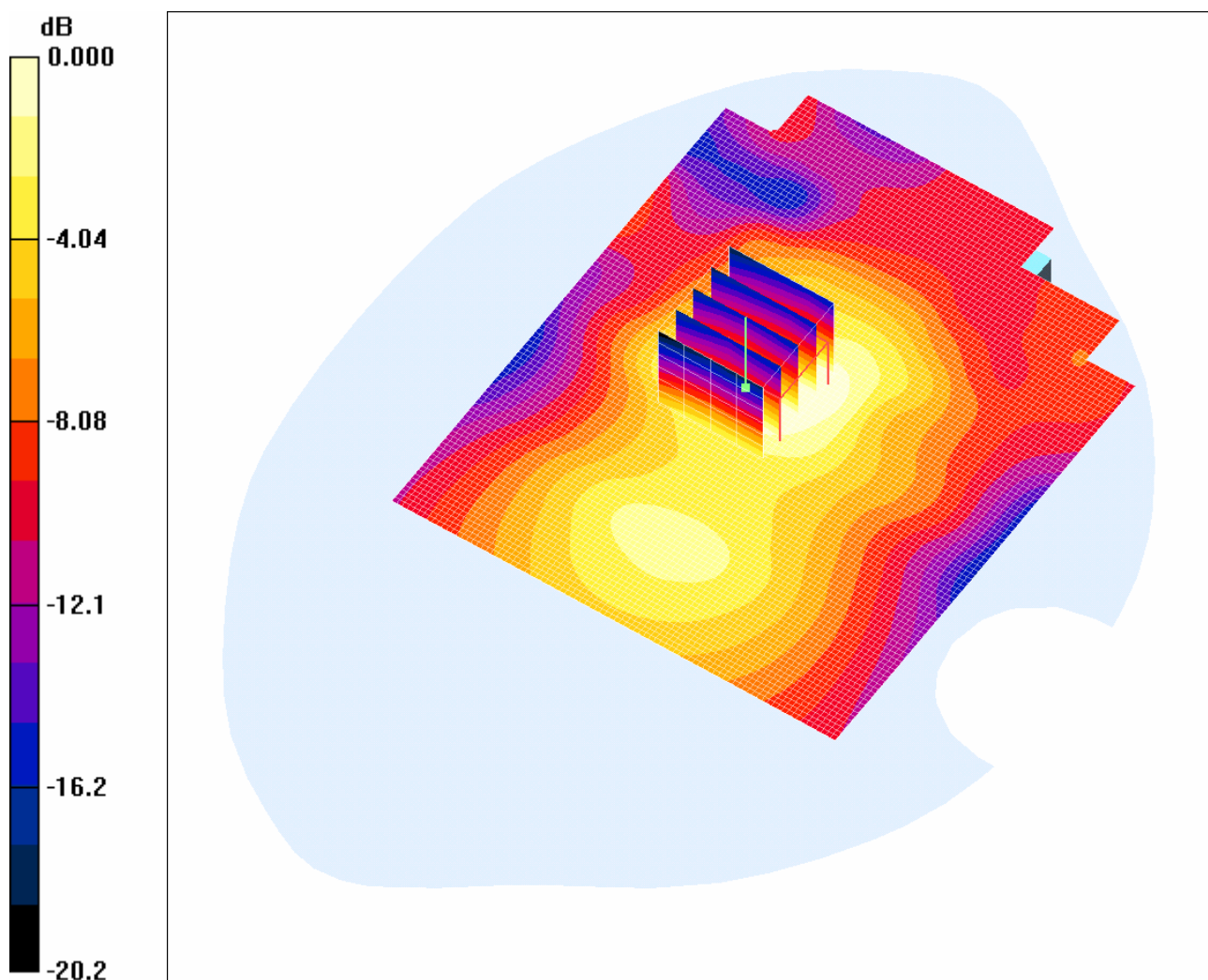
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SCN/49365JD03/008 Dell Latitude EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Middle (Bottom slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.307mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.313 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.19 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.163 mW/g

Maximum value of SAR (measured) = 0.307 mW/g

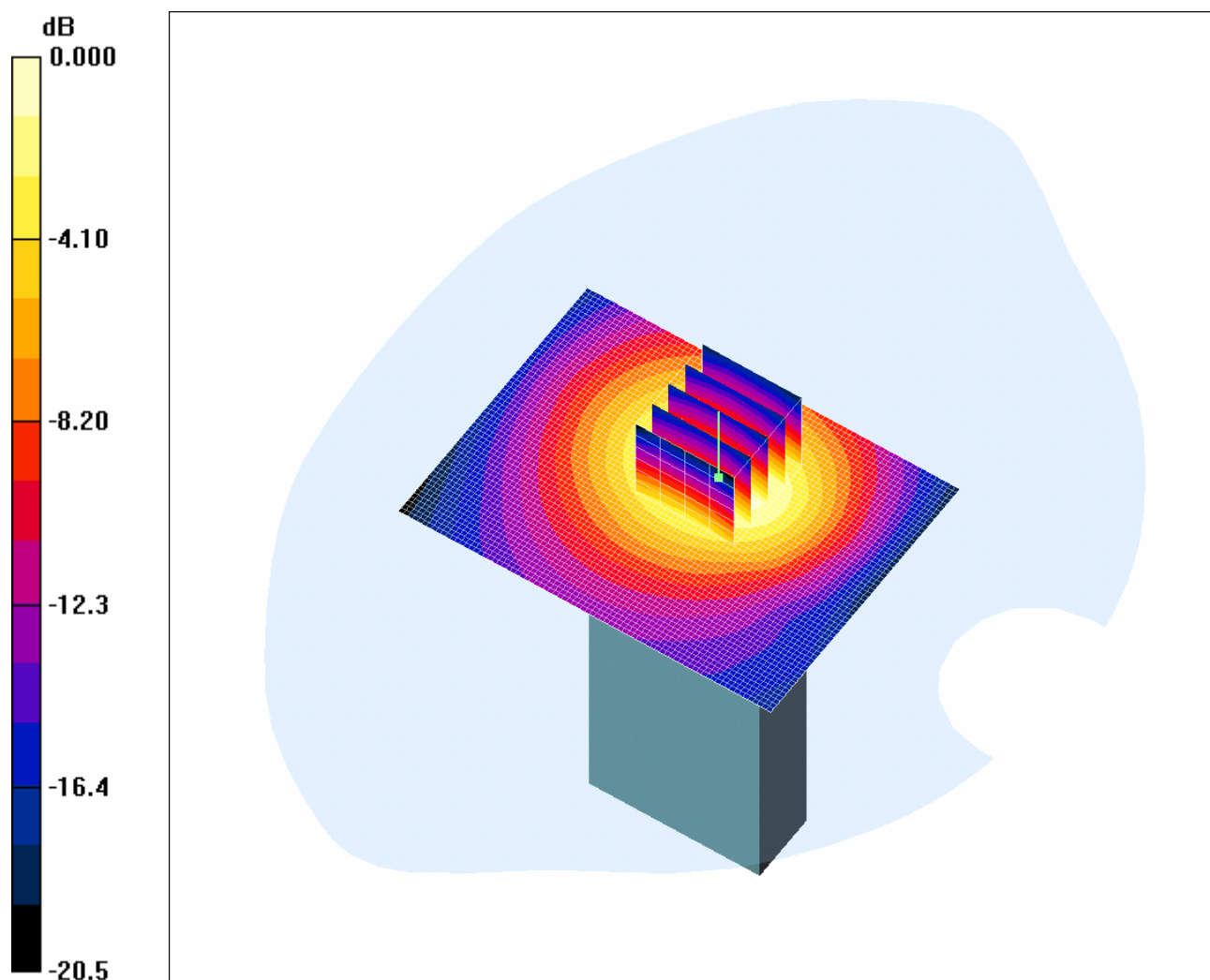
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SCN/49365JD03/009 Dell Latitude EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle (Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.557mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.571 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.891 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.277 mW/g

Maximum value of SAR (measured) = 0.557 mW/g

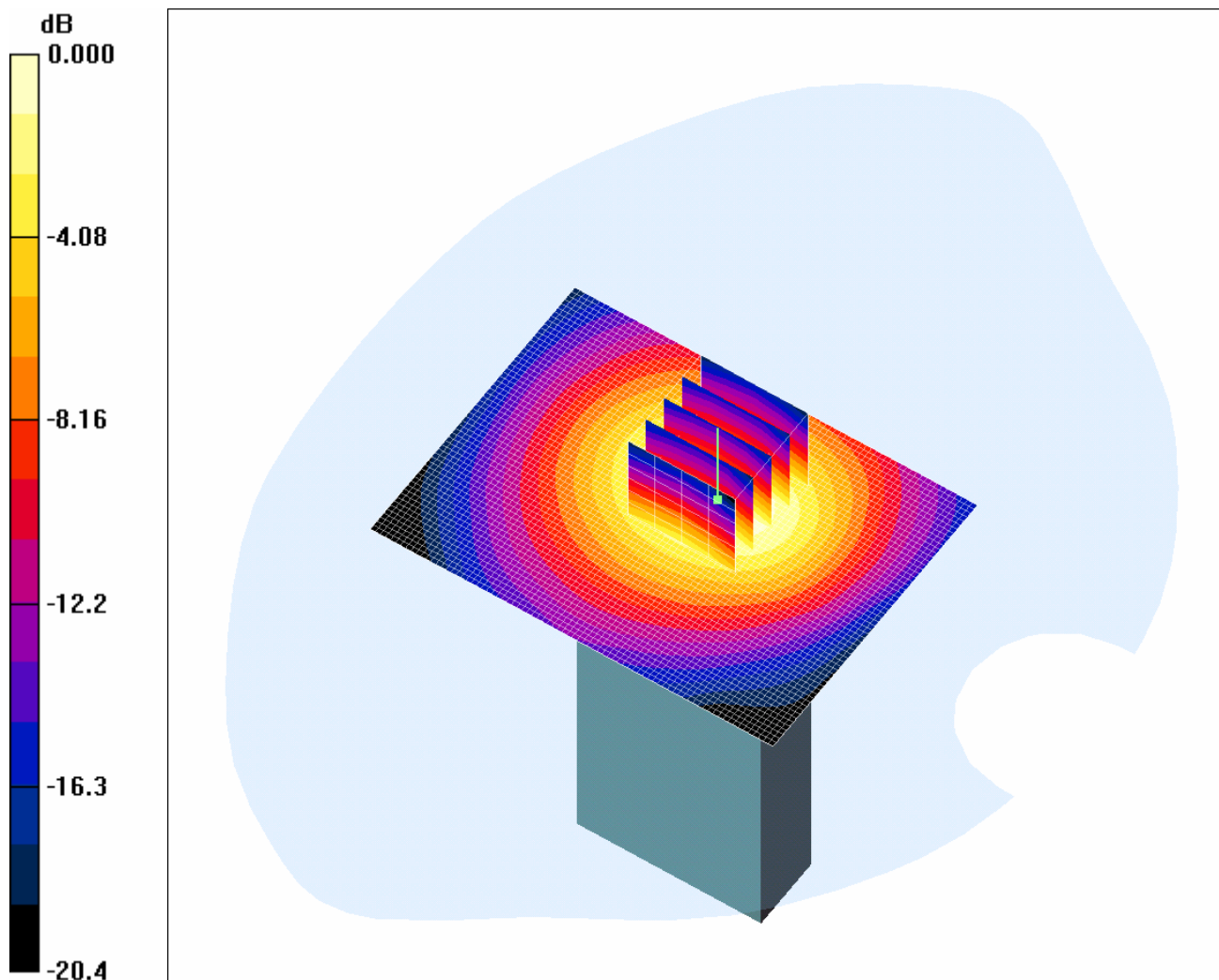
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SCN/49365JD03/010 Dell Latitude EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Bottom
(Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.379mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Bottom/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.387 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Bottom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.594 W/kg

SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 0.379 mW/g

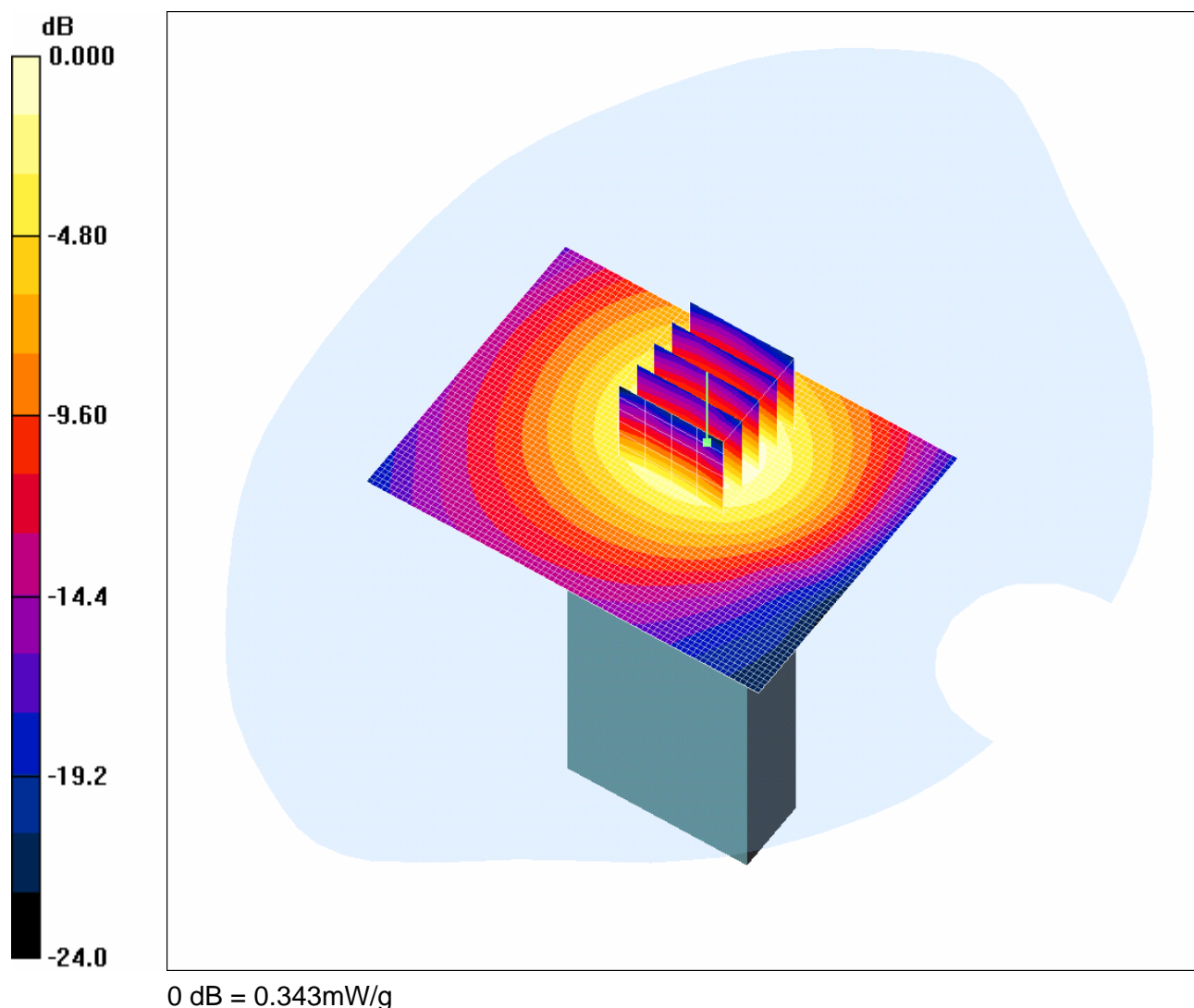
Test of: IPWireless (UK) Ltd
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SCN/49365JD03/011 Dell Latitude EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Top
(Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.28$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.352 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.343 mW/g

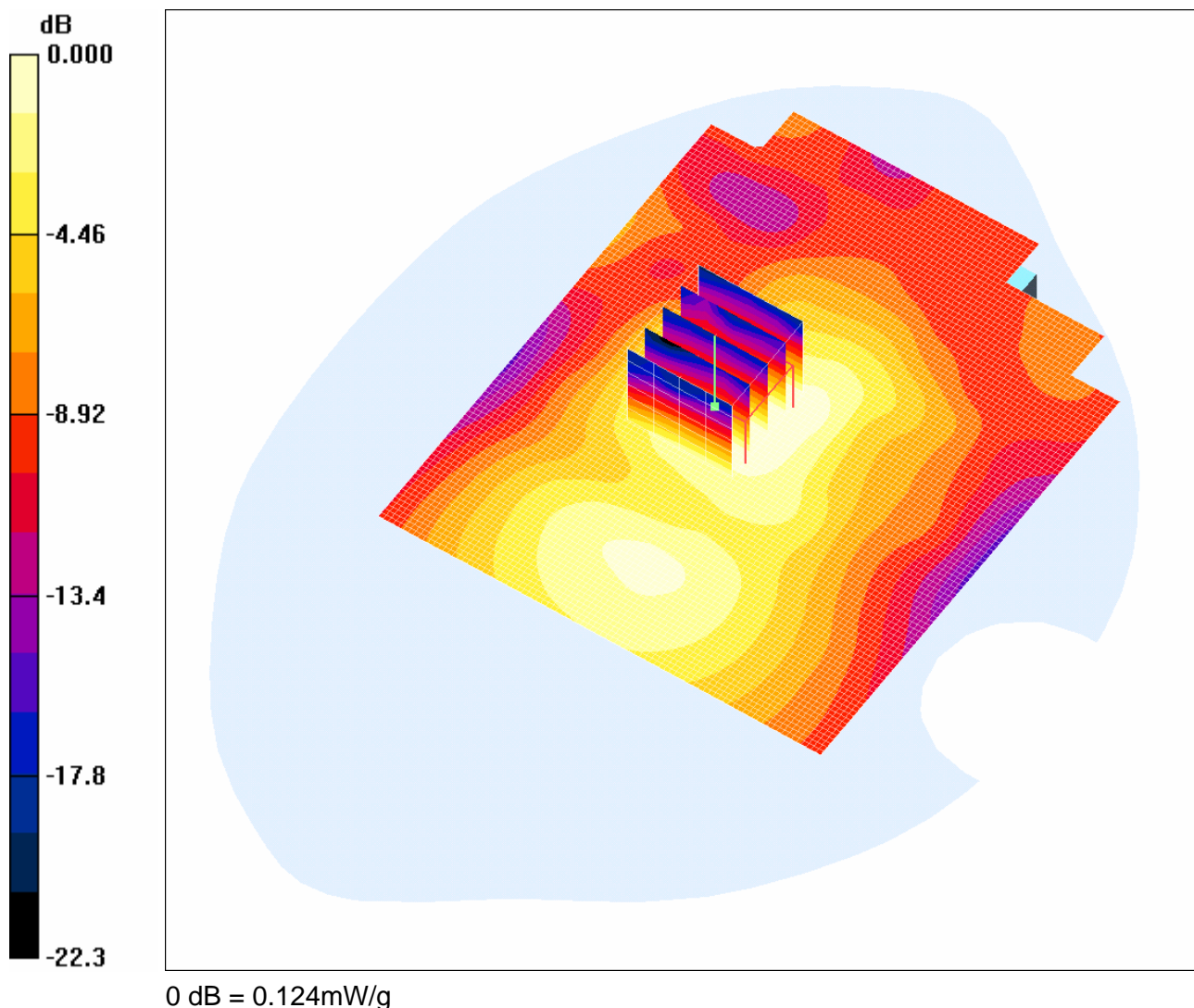
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 30/08/2007

SCN/49365JD03/012 Dell Latitude EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Top
(Bottom slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.28$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Top/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.125 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Top/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.99 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.124 mW/g

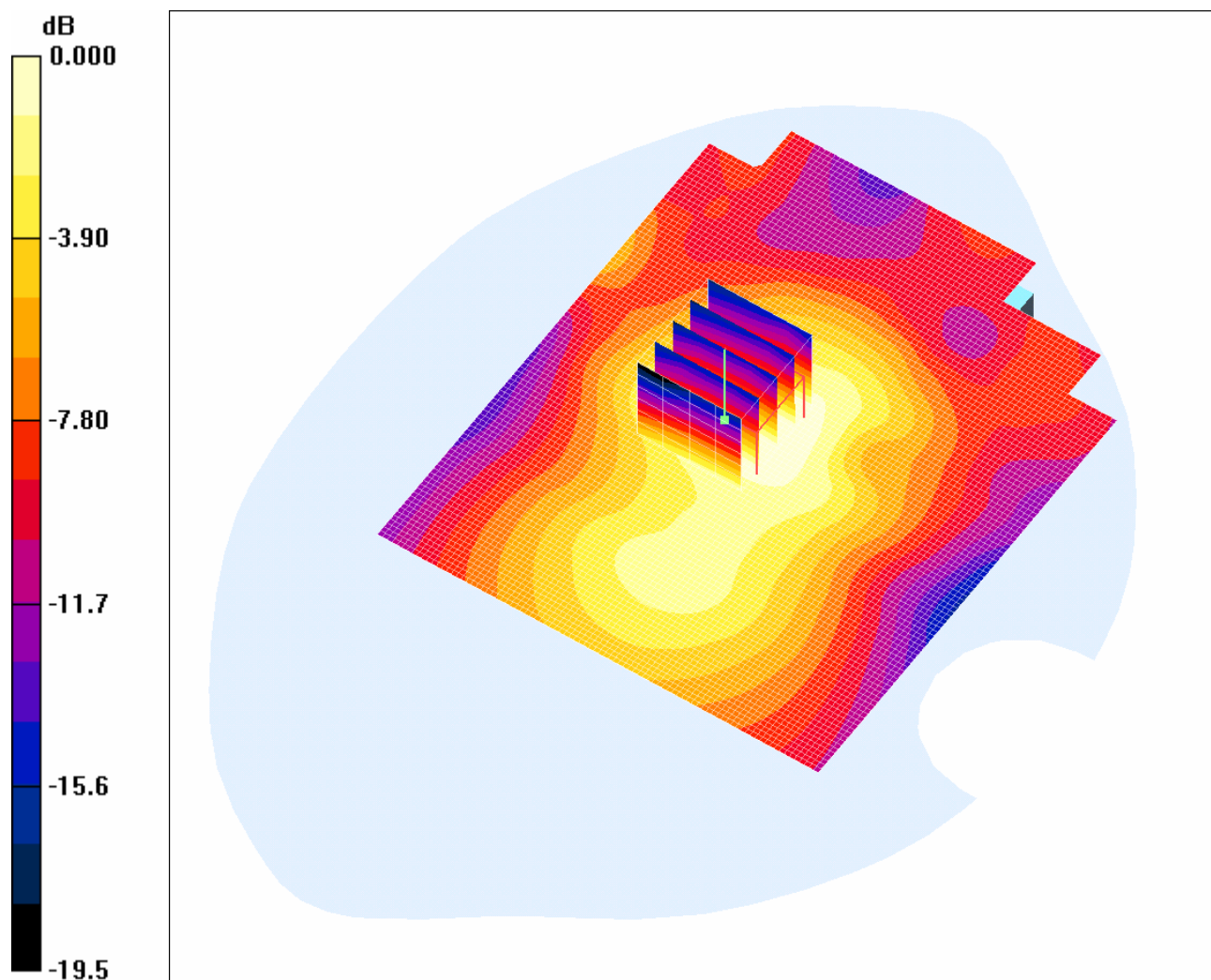
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 30/08/2007

SCN/49365JD03/013 Dell Latitude EUT 0 Degrees To Phantom 7.68 Mcps 10 MHz Channel Bottom (Bottom slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.163mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Bottom/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.168 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Bottom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.00 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.163 mW/g

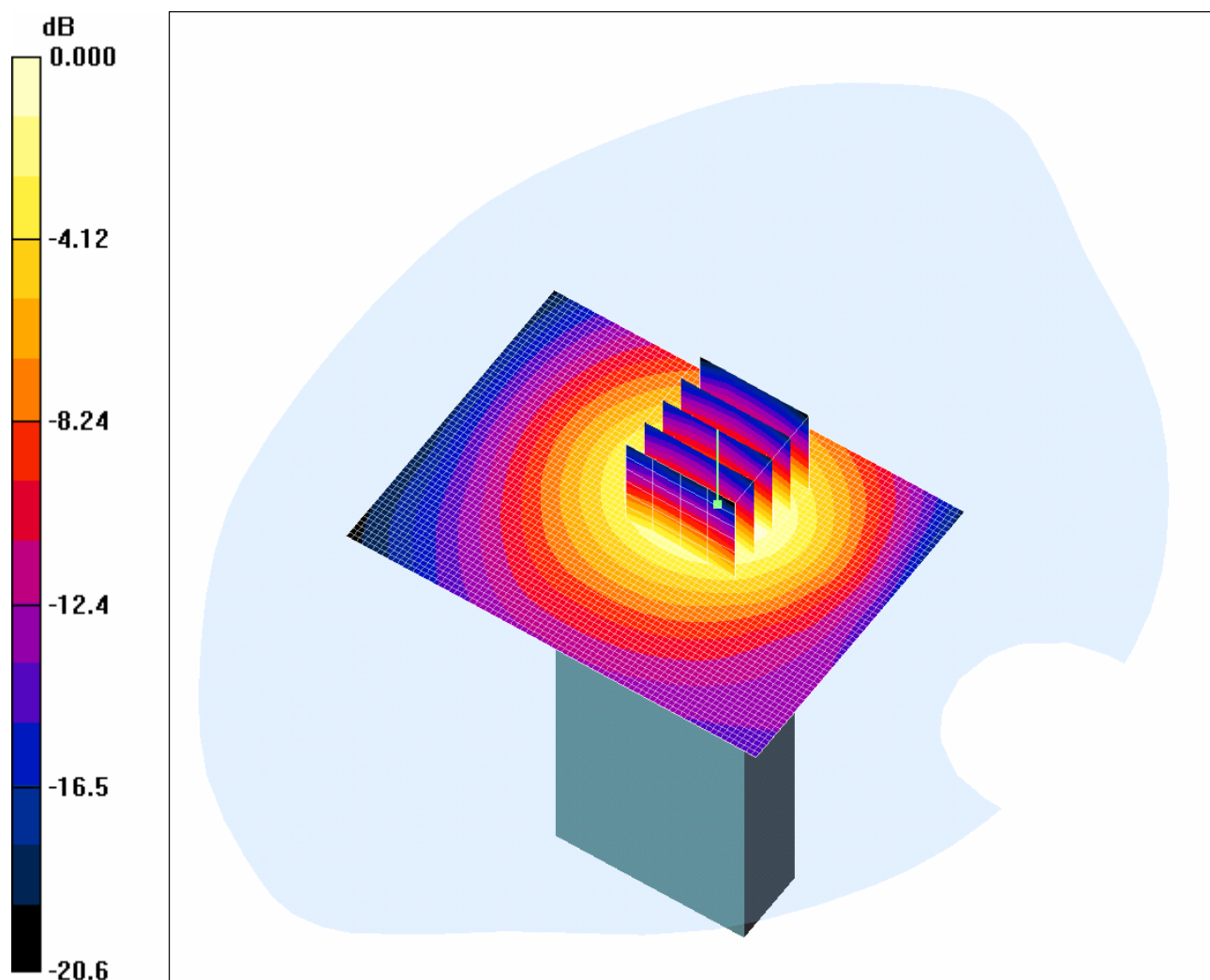
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 30/08/2007

SCN/49365JD03/014 Dell Latitude EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle (Top Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.481mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (81x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.506 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.276 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.247 mW/g

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

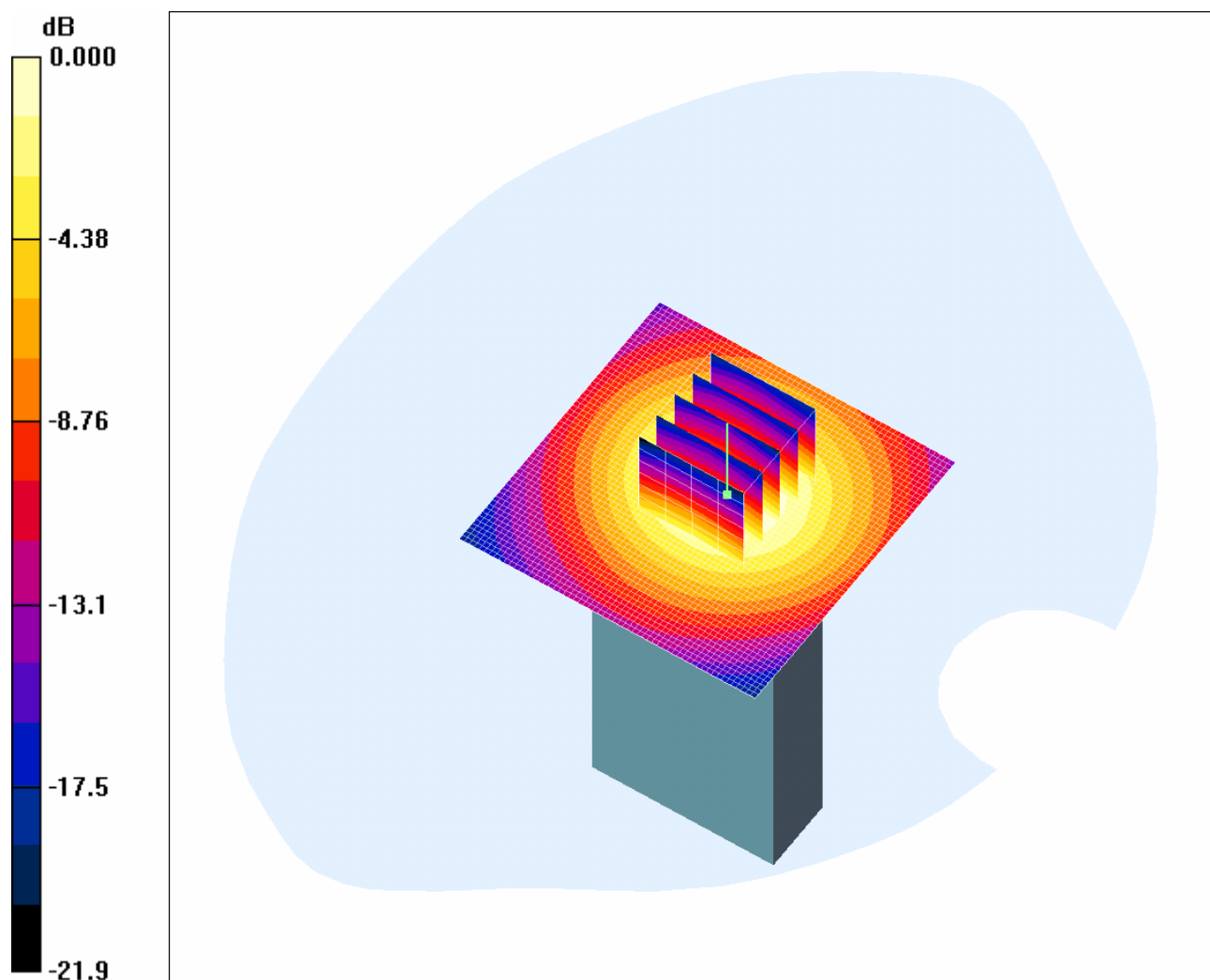
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/015 HP Compaq EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle (Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.349mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.16$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle 2/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.349 mW/g

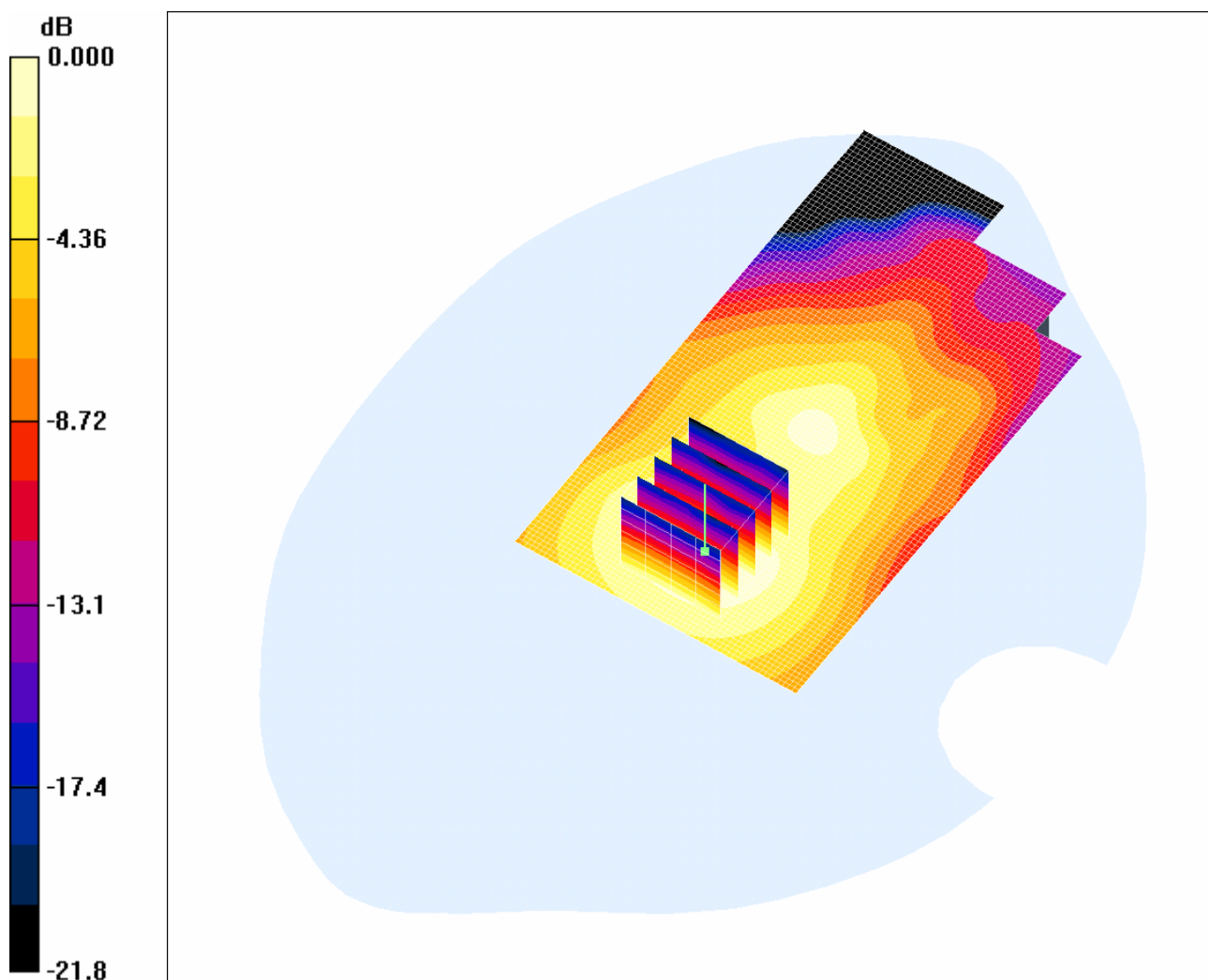
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/016 HP Compaq EUT 0 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle
(Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.196mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.16$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.191 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.36 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.196 mW/g

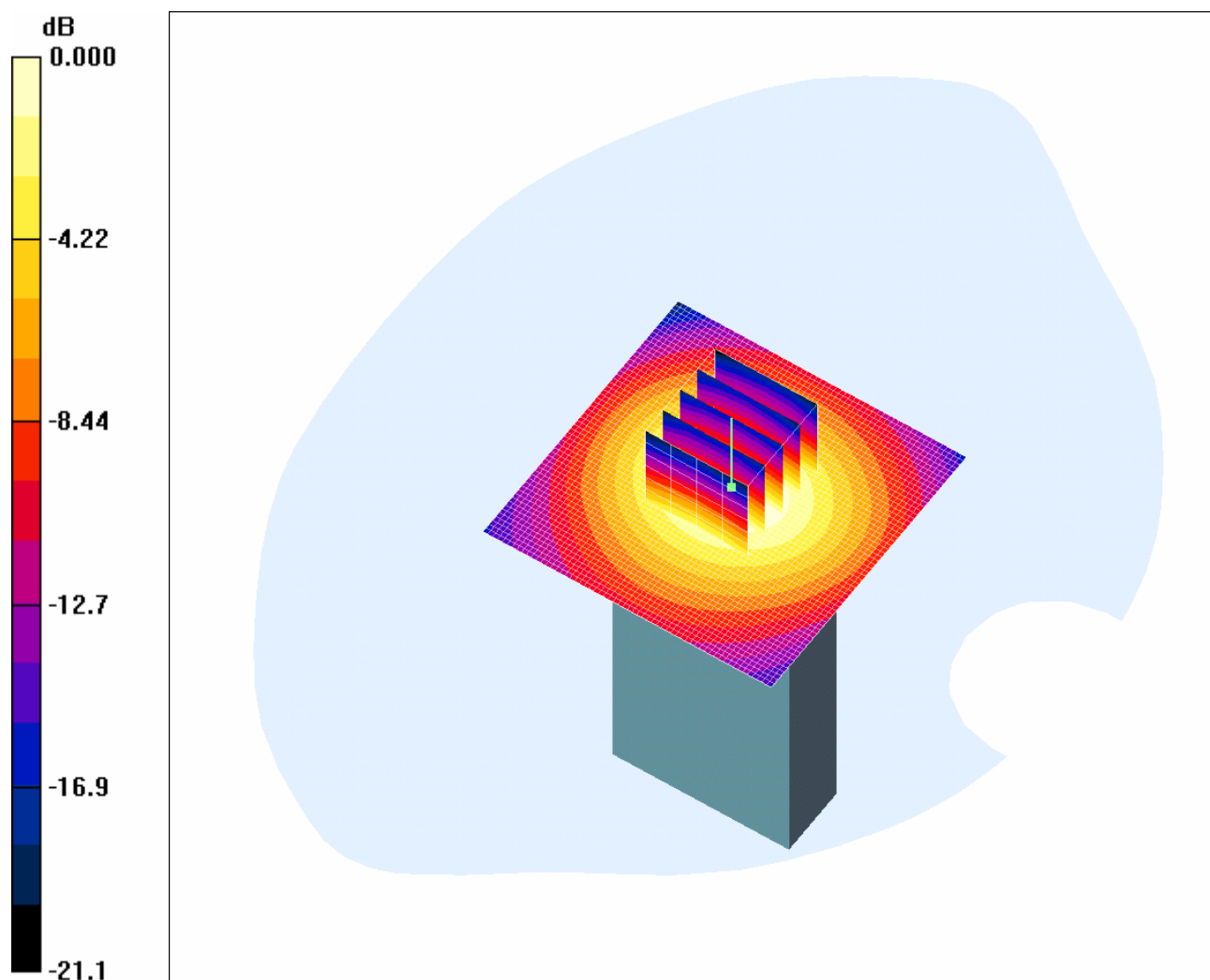
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/017 HP Compaq EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle (Top Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.466mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.16$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle 2/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.470 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.769 W/kg

SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.235 mW/g

Maximum value of SAR (measured) = 0.466 mW/g

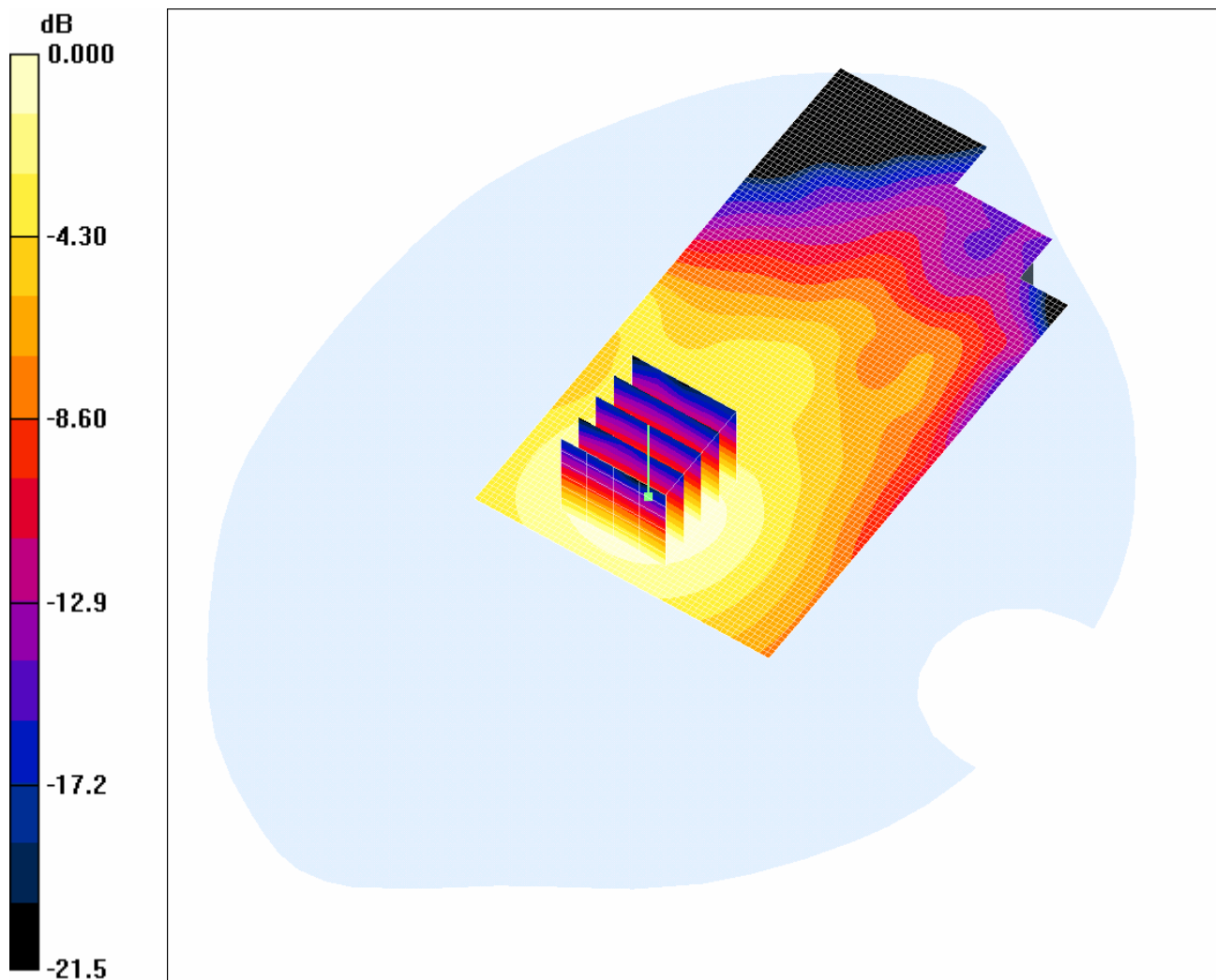
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/018 HP Compaq EUT 0 Degrees To Phantom 7.68 Mcps 10MHz Channel Middle (Top Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.193mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2593 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.16$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.187 mW/g

EUT 0 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.96 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.193 mW/g

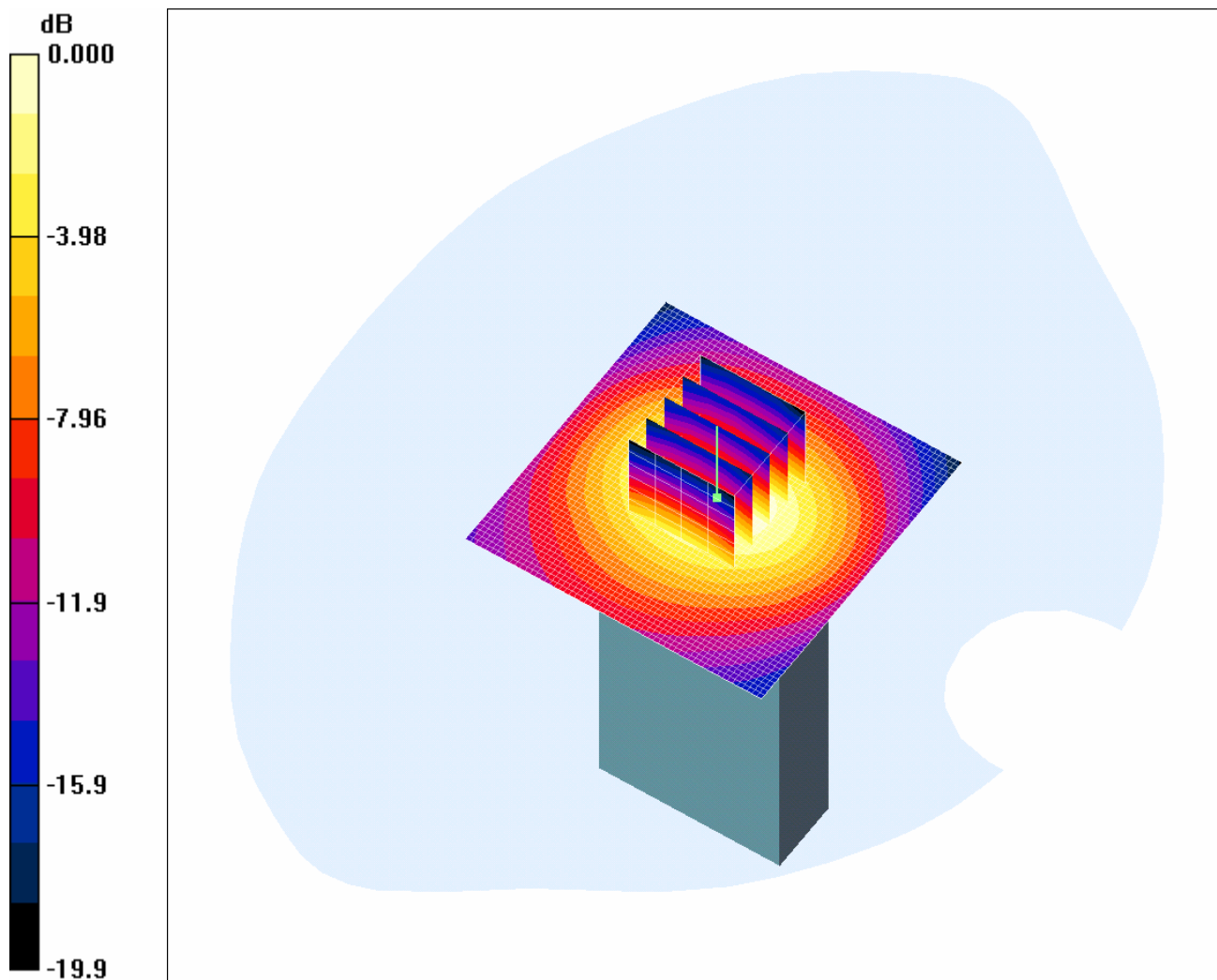
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/019 HP Compaq EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Low (Top Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.343mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Low/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.353 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.343 mW/g

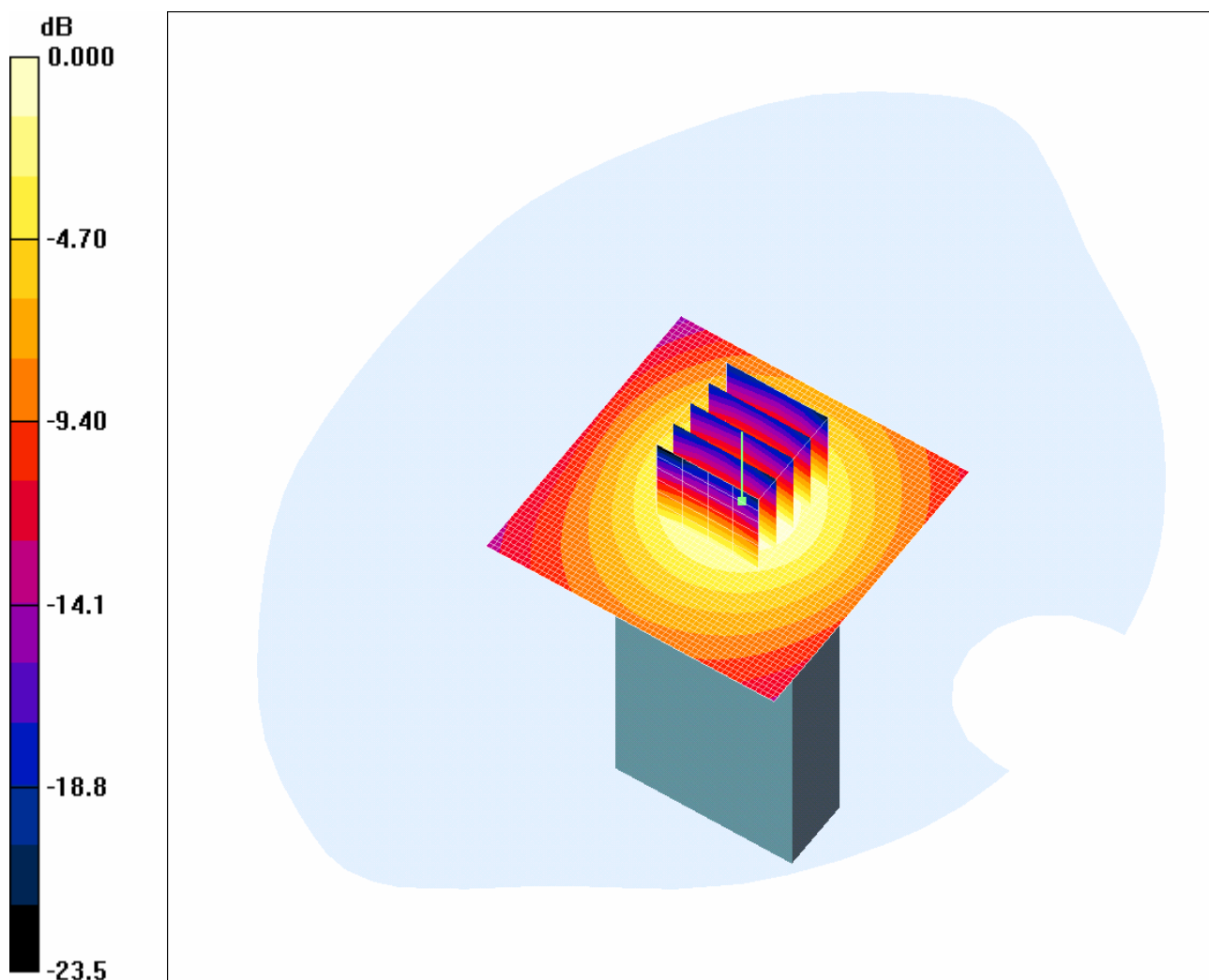
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/020 HP Compaq EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel High (Top Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.340mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.29$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.344 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.0 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.340 mW/g

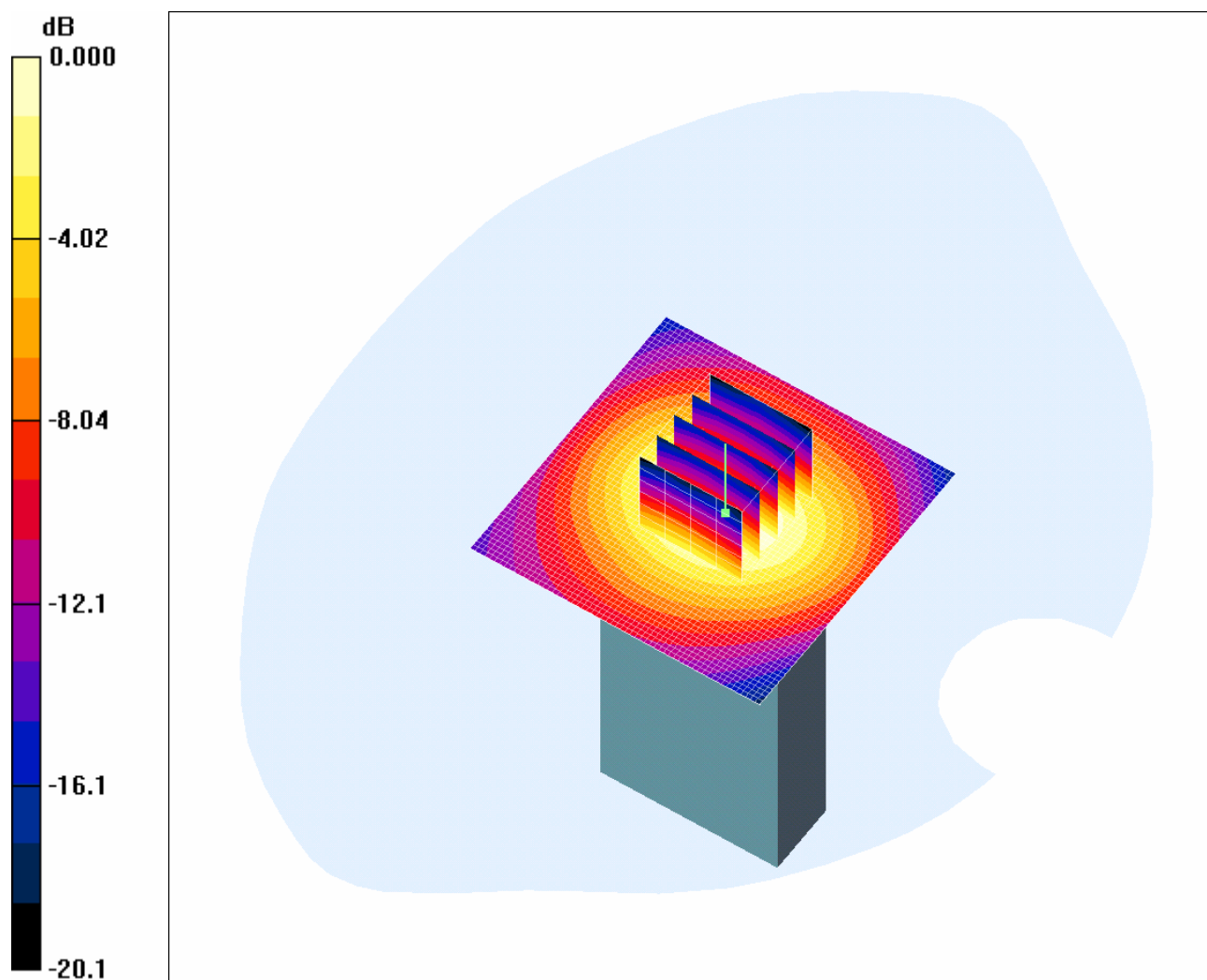
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/021 HP Compaq EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel Low
(Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



0 dB = 0.276mW/g

Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2501.4 MHz; Duty Cycle: 1:3
Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2501.4$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 24/05/2007
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.285 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.6 V/m; Power Drift = 0.507 dB
Peak SAR (extrapolated) = 0.446 W/kg
SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.141 mW/g
Maximum value of SAR (measured) = 0.276 mW/g

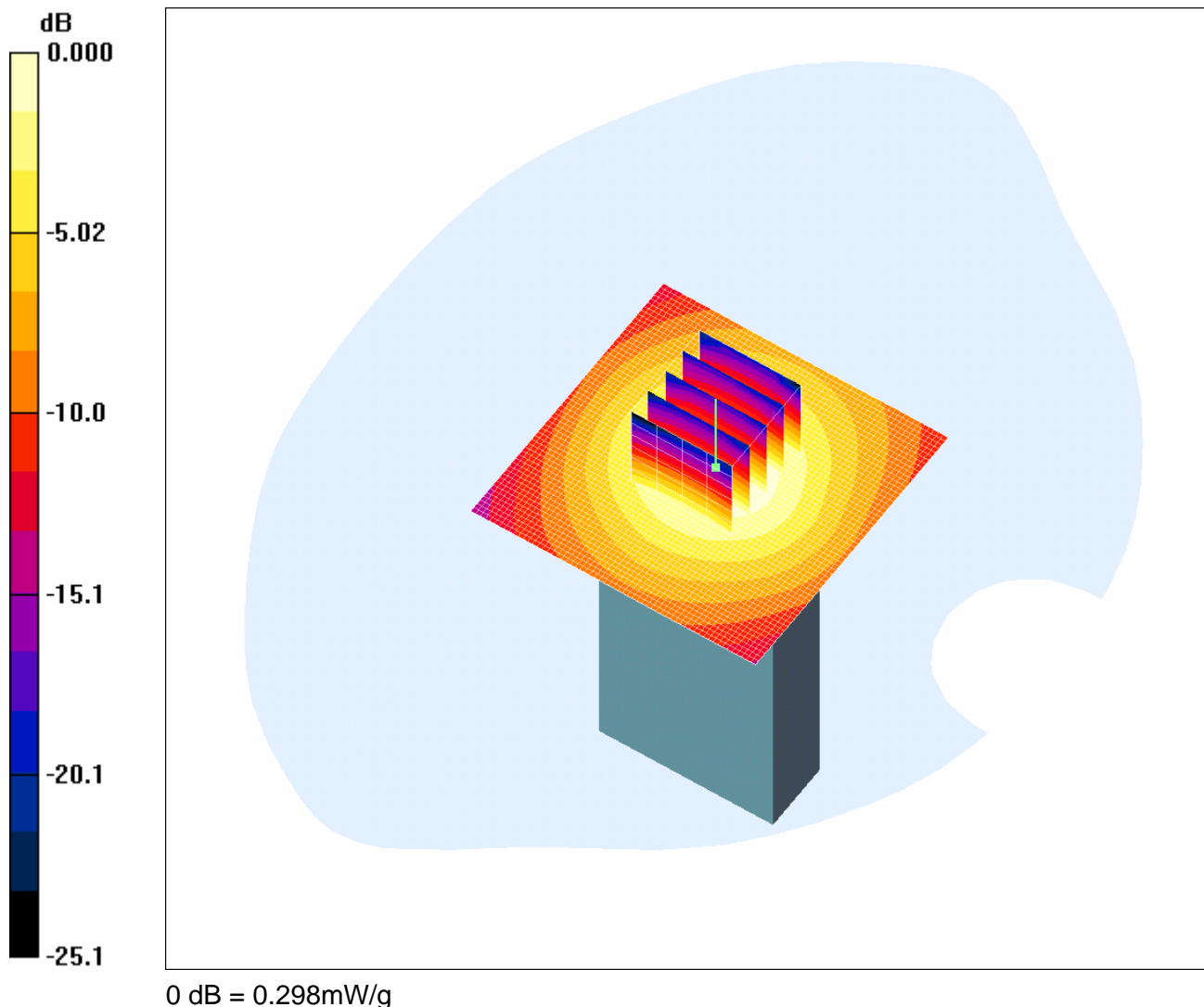
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/022 HP Compaq EUT 90 Degrees To Phantom 7.68 Mcps 10MHz Channel High (Bottom Slot)

DUT: IPWireless UK Ltd; Type: FD; Serial: FD1A730000210



Communication System: TDCDMA - 7.68 Mcps / 10MHz Channel; Frequency: 2684.6 MHz; Duty Cycle: 1:3

Medium: 2450 MHz MSL Medium parameters used (interpolated): $f = 2684.6$ MHz; $\sigma = 2.29$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.76, 7.76, 7.76); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.298 mW/g

EUT 90 Degrees to Phantom 7.68 Mcps 10 MHz Channel - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.2 V/m; Power Drift = 0.139 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.298 mW/g

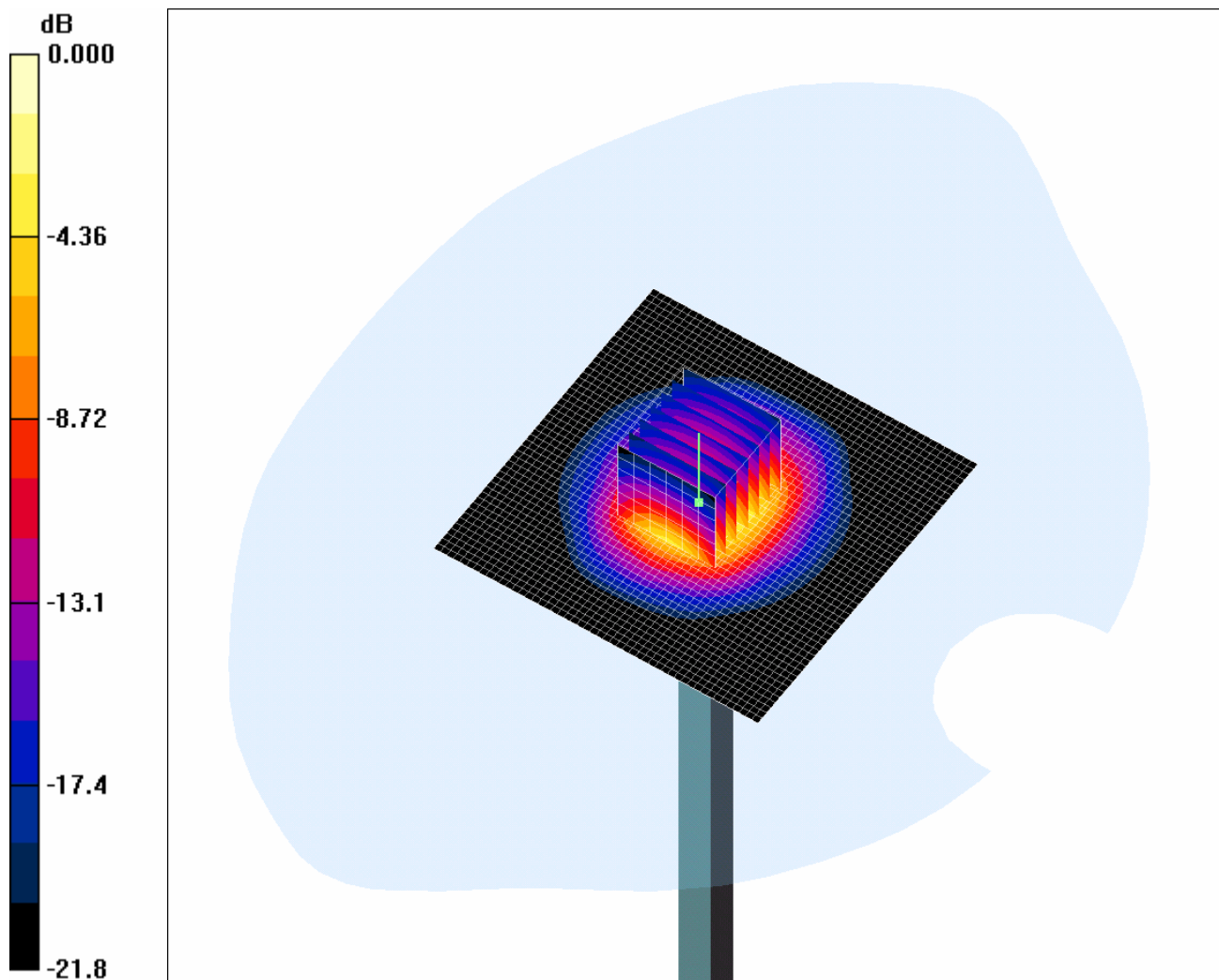
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 29/08/2007

SCN/49365JD03/023 System Performance Check_29_08_07

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725



0 dB = 14.4mW/g

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 DASY4 Configuration:
 - Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn394; Calibrated: 24/05/2007
 - Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
 - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
 Maximum value of SAR (interpolated) = 18.2 mW/g
d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 85.4 V/m; Power Drift = 0.019 dB
 Peak SAR (extrapolated) = 25.7 W/kg
SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.88 mW/g
 Maximum value of SAR (measured) = 14.4 mW/g

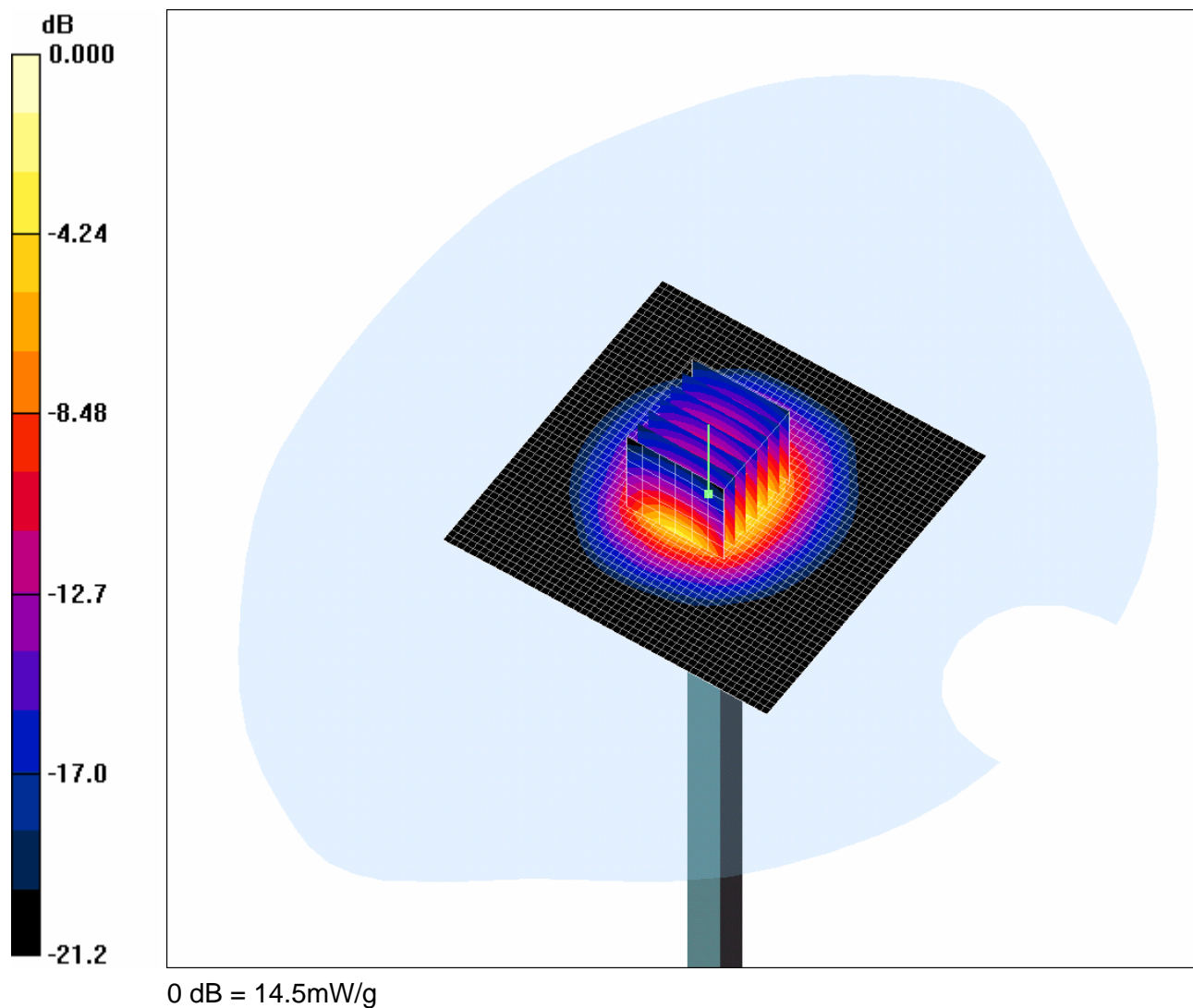
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 30/08/2007

SCN/49365JD03/024 System Performance Check_30_08_07

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725



Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 52.4$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 DASY4 Configuration:
 - Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn394; Calibrated: 24/05/2007
 - Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
 - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
 Maximum value of SAR (interpolated) = 18.0 mW/g
d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 85.7 V/m; Power Drift = 0.014 dB
 Peak SAR (extrapolated) = 25.3 W/kg
SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.95 mW/g
 Maximum value of SAR (measured) = 14.5 mW/g

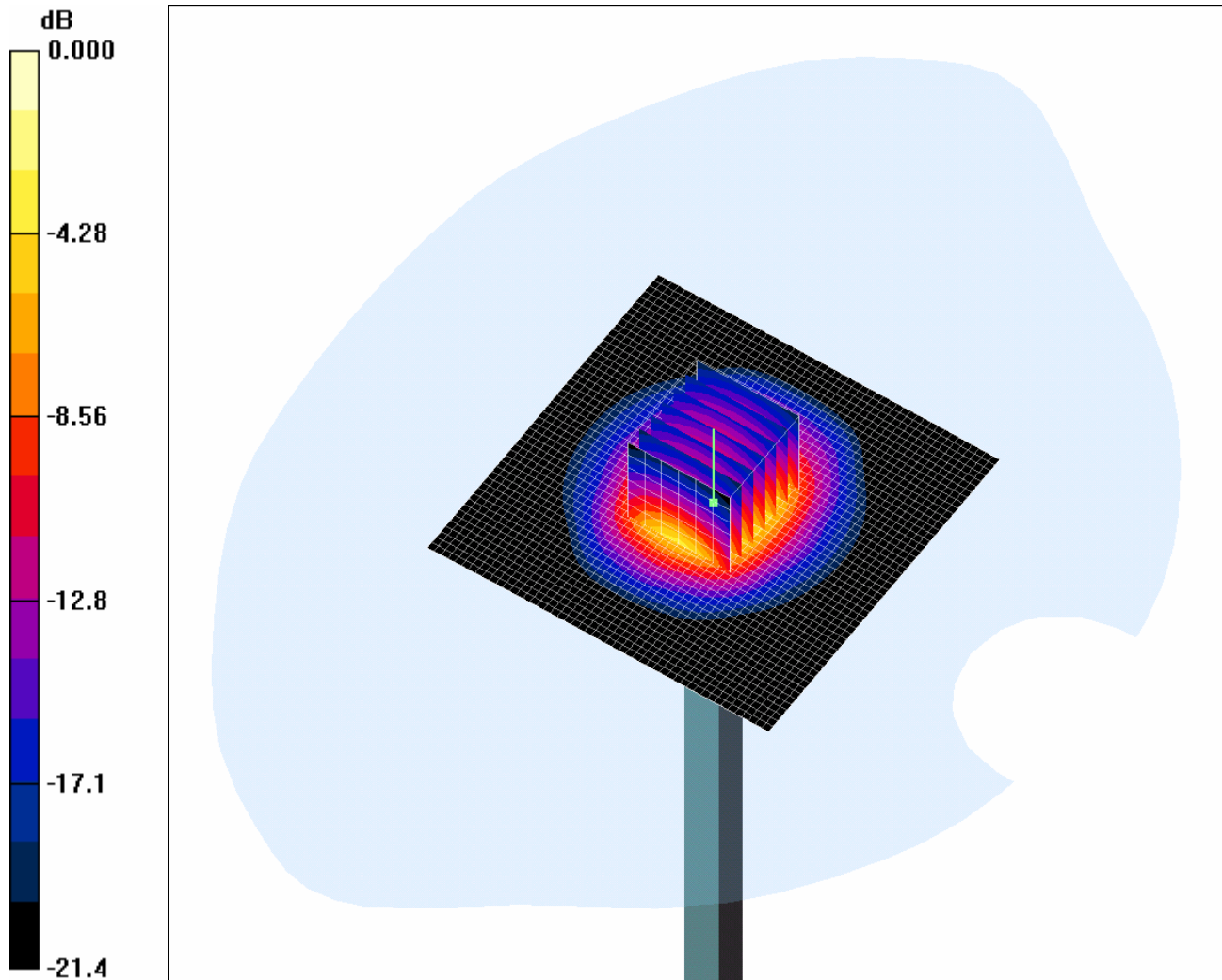
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 31/08/2007

SCN/49365JD03/025 System Performance Check_31_08_07

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725



0 dB = 14.9mW/g

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW/Area Scan (51x51x1); Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 19.6 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0; Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.3 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.13 mW/g

Maximum value of SAR (measured) = 14.9 mW/g

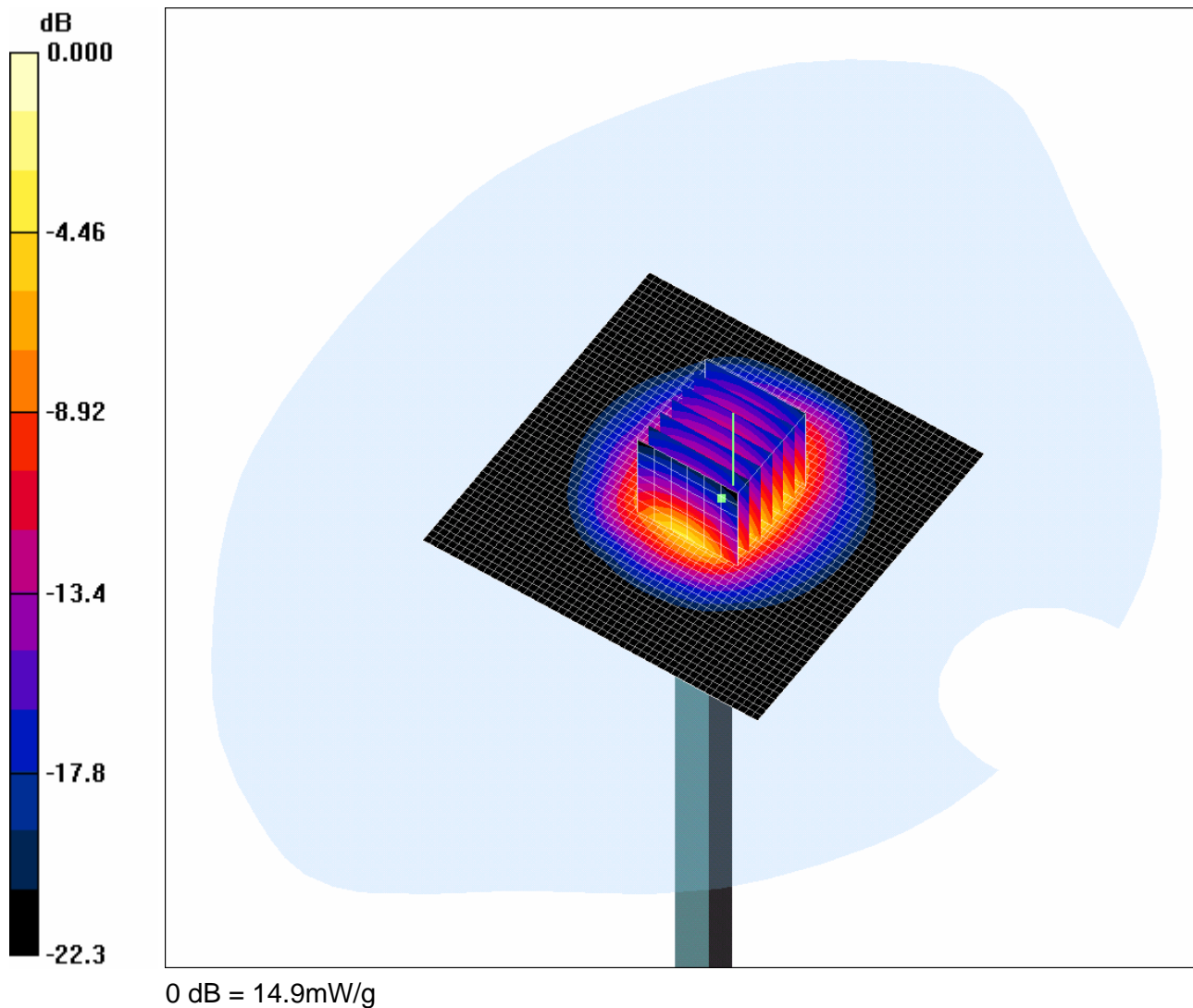
Test of: IPWireless (UK) Ltd
2.5 GHz UE PCMCIA V1, Model: FD

To: FCC OET Bulletin 65 Supplement C: 2001

Date: 19/09/2007

SCN/49365JD03/026 System Performance Check_19_09_07

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725



Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3508add; ConvF(7.89, 7.89, 7.89); Calibrated: 16/11/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn394; Calibrated: 24/05/2007

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=10mm, Pin=250mW/Area Scan (51x51x1); Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 16.3 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0; Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.5 V/m; Power Drift = -0.172 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.09 mW/g

Maximum value of SAR (measured) = 14.9 mW/g