

Test of: Enfora L.P
GSM2228 MiniMT With Personal Hands Free

To: OET Bulletin 65 Supplement C (2001-01)

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 7x7x7 matrix was 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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Test of: Enfora L.P
GSM2228 MiniMT With Personal Hands Free

To: OET Bulletin 65 Supplement C (2001-01)

A.2.2. Specific Absorption Rate (SAR) Measurements to OET Bulletin 65 Supplement C: (2001-01)

Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields

SAR measurements were performed in accordance with Appendix D of the standard FCC OET Bulletin 65 Supplement C: 2001, against appropriate limits for each measurement position in accordance with the standard.

The test was performed in a shielded enclosure with the temperature controlled to remain between +18.0°C and +25.0°C. The tissue equivalent material fluid temperature was controlled to give a maximum variation of $\pm 2.0^\circ\text{C}$

Prior to any SAR measurements on the EUT, system validation and material dielectric property measurements were conducted. In the absence of a detailed procedure within the specification, system validation and material dielectric property measurements were performed in accordance with Appendix C and Appendix D of FCC OET Bulletin 65 Supplement C: 2001.

Following the successful system validation and material dielectric property measurements, a SAR versus time sweep shall be performed within 10 mm of the phantom inner surface. If the EUT power output is stable after three minutes then the measurement probe will perform a coarse surface level scan at each test position in order to ascertain the location of the maximum local SAR level. Once this area had been established, a 7x7x7 cube of 343 points (5 mm spacing in each axis $\approx 27\text{g}$) will be centred at the area of concern. Extrapolation and interpolation will then be carried out on the 27g of tissue and the highest averaged SAR over a 10g cube determined.

Once the maximum interpolated SAR measurement is complete; the coarse scan is visually assessed to check for secondary peaks within 50% of the maximum SAR level. If there are any further SAR measurements required, extra 7x7x7 cubes shall be centred on each of these extra local SAR maxima.

At the end of each position test case a second time sweep shall be performed to check whether the EUT has remained stable throughout the test.

Test of: Enfora L.P
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To: OET Bulletin 65 Supplement C (2001-01)

Appendix 3. SAR Distribution Scans

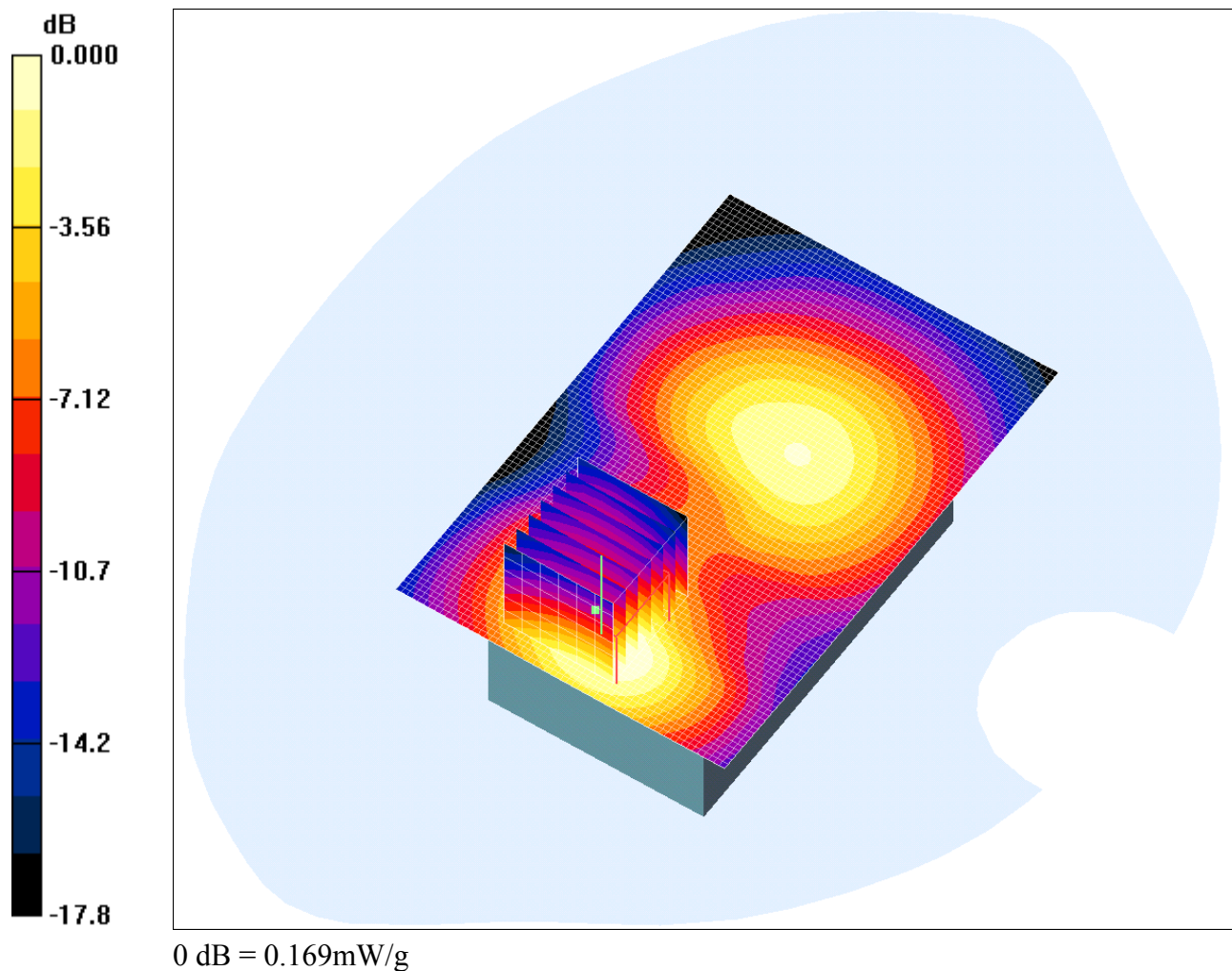
This appendix contains SAR distribution scans which are not included in the total number of pages for this report.

Scan Reference Number	Title
SCN/72182JD11A/001	Front of EUT Facing Phantom CH660 15mm PCS1900
SCN/72182JD11A/002	Front of EUT Facing Phantom CH660 15mm GPRS1900
SCN/72182JD11A/003	Rear of EUT Facing Phantom CH660 15mm PCS1900
SCN/72182JD11A/004	Rear of EUT Facing Phantom with PHF CH660 15mm PCS1900
SCN/72182JD11A/005	Front of EUT Facing Phantom with PHF CH660 15mm PCS1900
SCN/72182JD11A/006	Front of EUT Facing Phantom CH512 15mm PCS1900
SCN/72182JD11A/007	Front of EUT Facing Phantom CH810 15mm PCS1900
SCN/72182JD11A/008	Front of EUT Facing Phantom CH189 15mm GSM850
SCN/72182JD11A/009	Front of EUT Facing Phantom CH189 15mm GPRS850
SCN/72182JD11A/010	Rear of EUT Facing Phantom CH189 15mm GSM850
SCN/72182JD11A/011	Rear of EUT Facing Phantom with PHF CH189 15mm GSM850
SCN/72182JD11A/012	Front of EUT Facing Phantom with PHF CH189 15mm GSM850
SCN/72182JD11A/013	Front of EUT Facing Phantom CH128 15mm GSM850
SCN/72182JD11A/014	Front of EUT Facing Phantom CH251 15mm GSM850
SCN/72182JD11A/015	System Performance Check D900 08 03 07
SCN/72182JD11A/016	System Performance Check-D1900 08 03 07

Date: 08/03/2007

72182JD11 001

Test Laboratory: RFI GLOBAL SERVICES LTD.

001 Front of EUT Facing Phantom CH660 15mm PCS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1879.8$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r =$ 52.6 ; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - Middle/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Front of EUT Facing Phantom at 15 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.42 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 0.256 W/kg

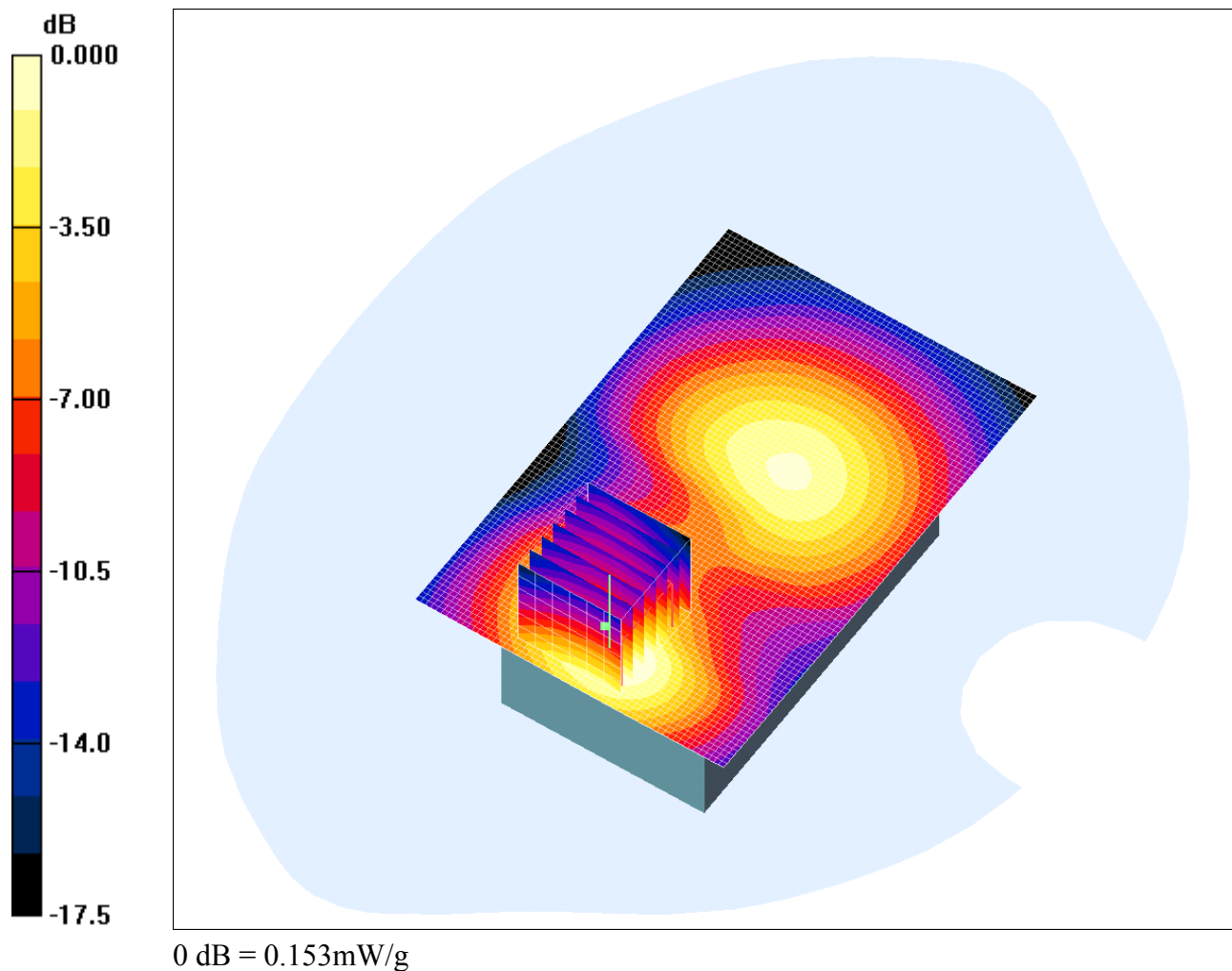
SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.091 mW/g

Maximum value of SAR (measured) = 0.169 mW/g

Date: 08/03/2007

72182JD11 002

Test Laboratory: RFI GLOBAL SERVICES LTD.

002 Front of EUT Facing Phantom CH660 15mm GPRS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: GPRS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:4

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1879.8$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r =$ 52.6 ; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - Middle/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.159 mW/g

Front of EUT Facing Phantom at 15 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.34 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 0.229 W/kg

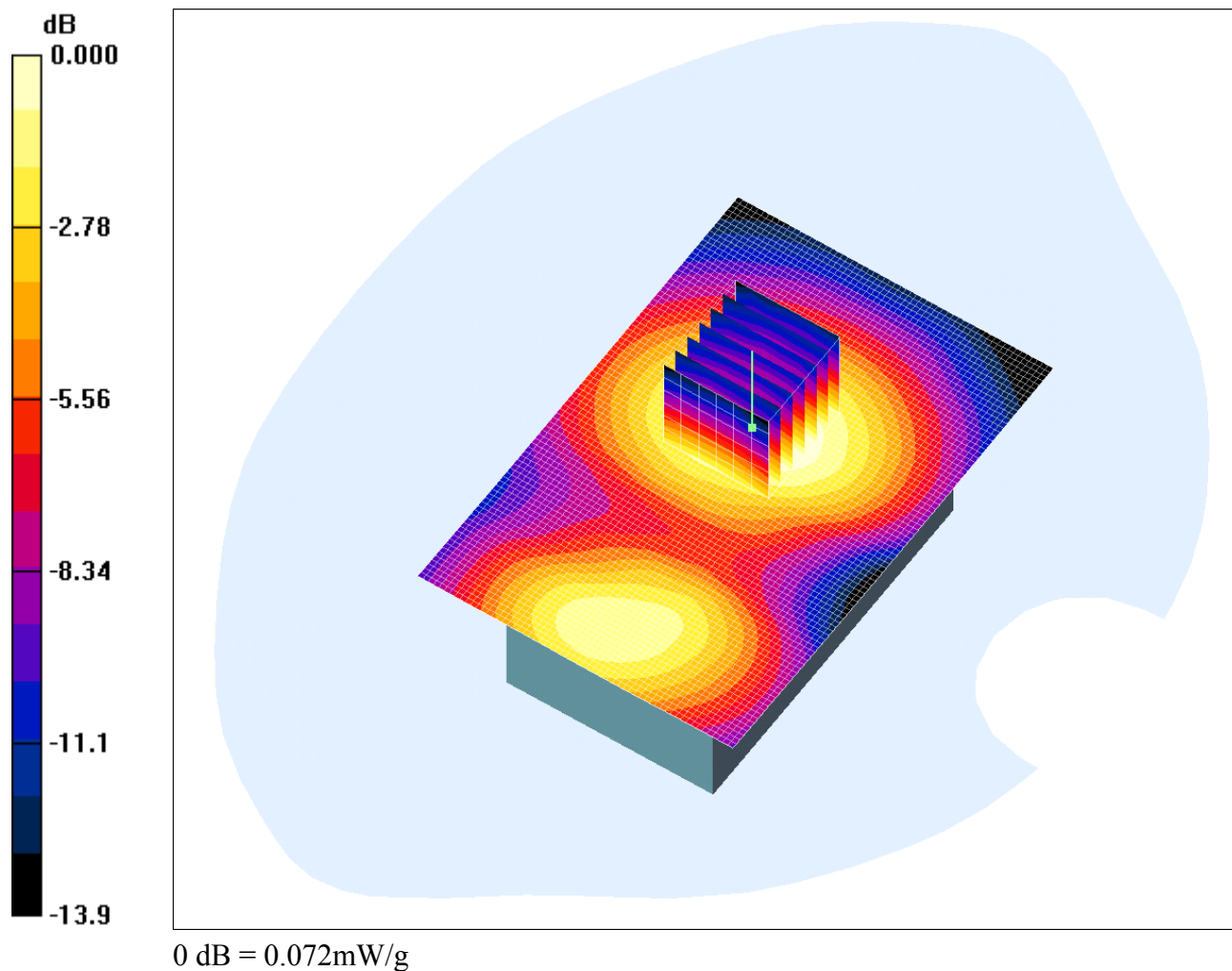
SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.084 mW/g

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

Date: 08/03/2007

72182JD11 003

Test Laboratory: RFI GLOBAL SERVICES LTD.

003 Rear of EUT Facing Phantom CH660 15mm PCS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1879.8$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r =$ 52.6; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Rear of EUT Facing Phantom at 15 mm - Middle/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.072 mW/g

Rear of EUT Facing Phantom at 15 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.79 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.104 W/kg

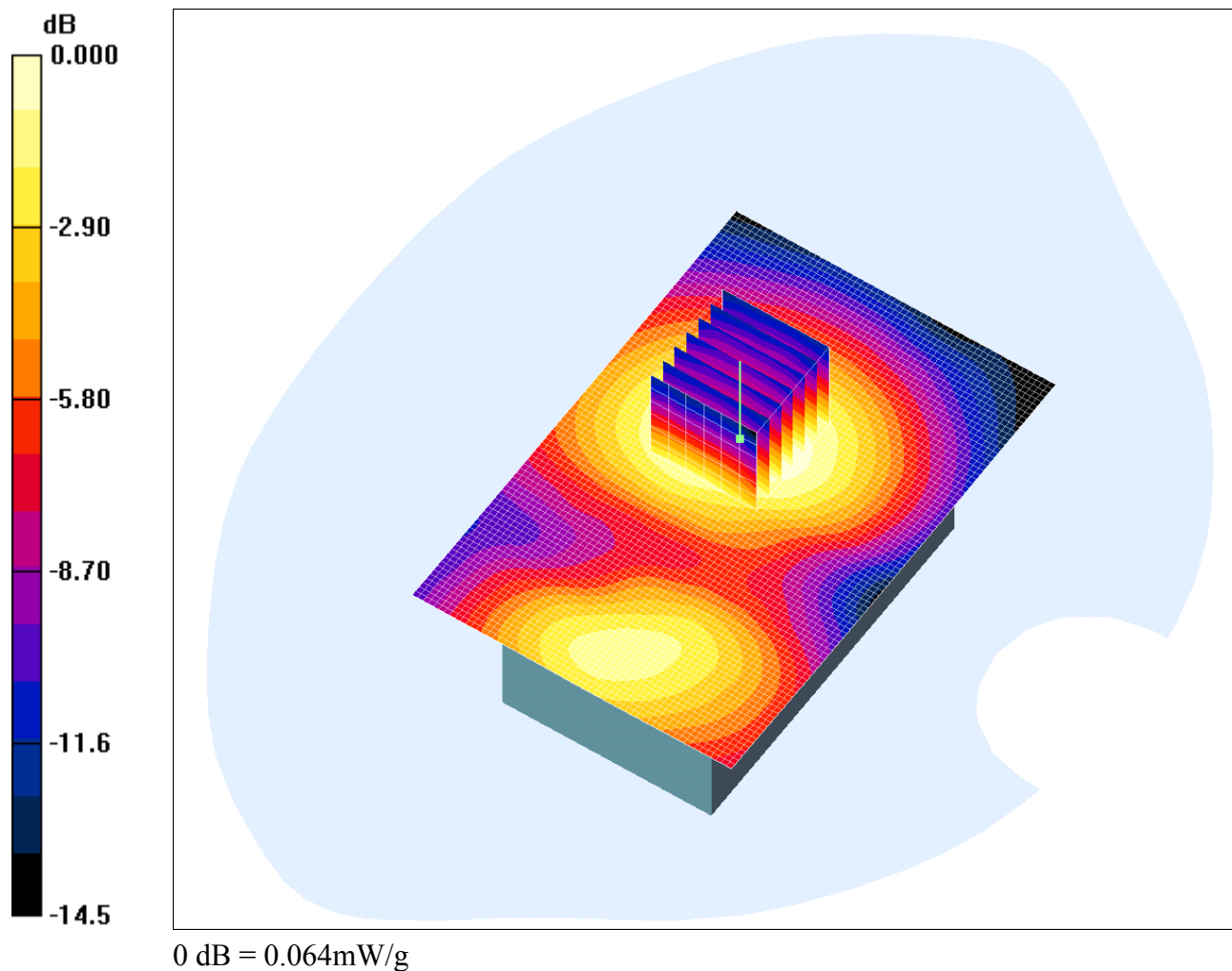
SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.042 mW/g

Maximum value of SAR (measured) = 0.072 mW/g

Date: 08/03/2007

72182JD11 004

Test Laboratory: RFI GLOBAL SERVICES LTD.

004 Rear of EUT Facing Phantom with PHF CH660 15mm PCS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1879.8$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r =$ 52.6; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Rear of EUT Facing Phantom with PHF at 15 mm - Middle/Area Scan (61x91x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.066 mW/g

Rear of EUT Facing Phantom with PHF at 15 mm - Middle/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.37 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.092 W/kg

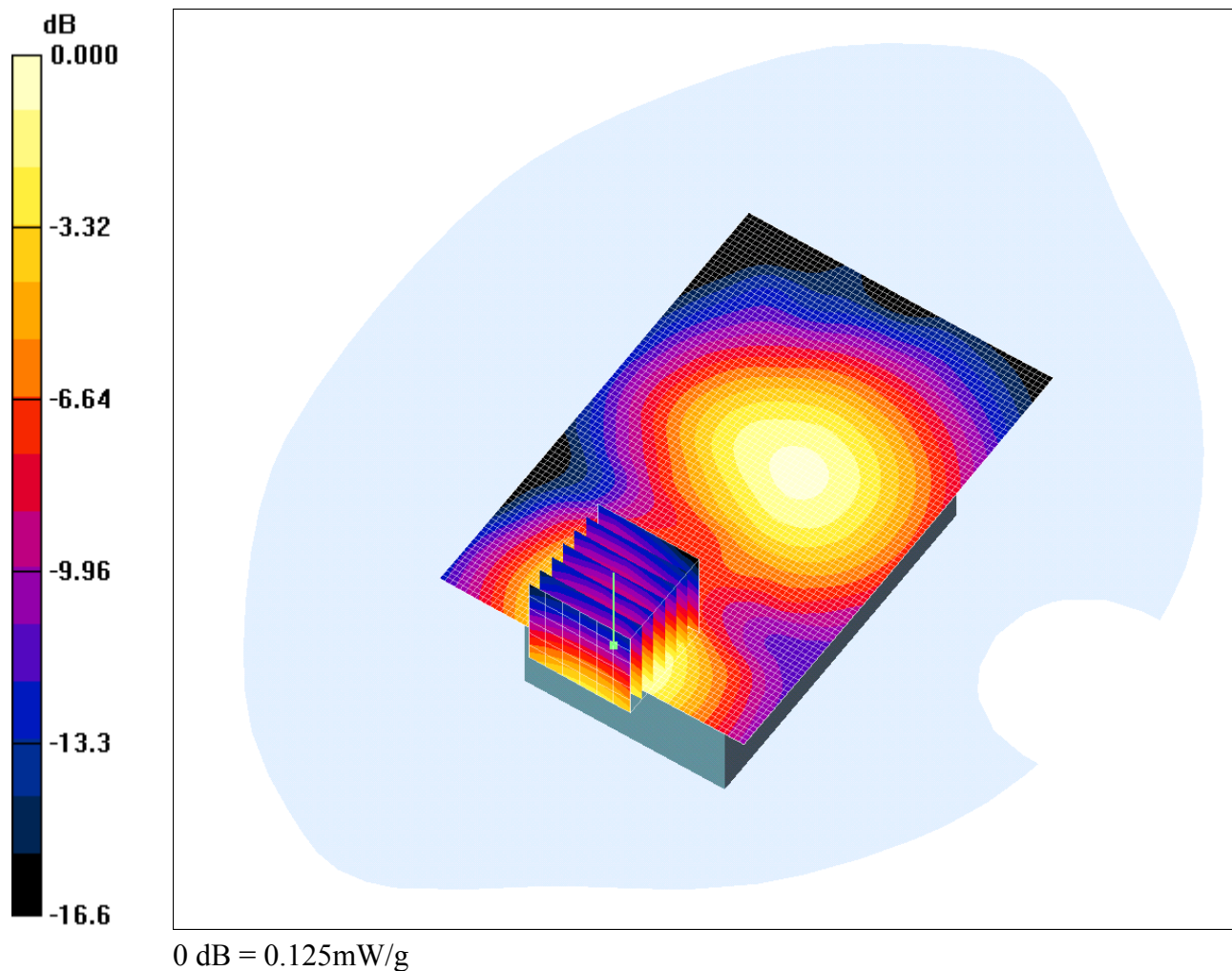
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.064 mW/g

Date: 08/03/2007

72182JD11 005

Test Laboratory: RFI GLOBAL SERVICES LTD.

005 Front of EUT Facing Phantom with PHF CH660 15mm PCS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: PCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1879.8$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r =$ 52.6 ; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom with PHF at 15 mm - Middle/Area Scan (61x91x1):

Measurement grid: dx=15mm, dy=15mm

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

Front of EUT Facing Phantom with PHF at 15 mm - Middle/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.26 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.184 W/kg

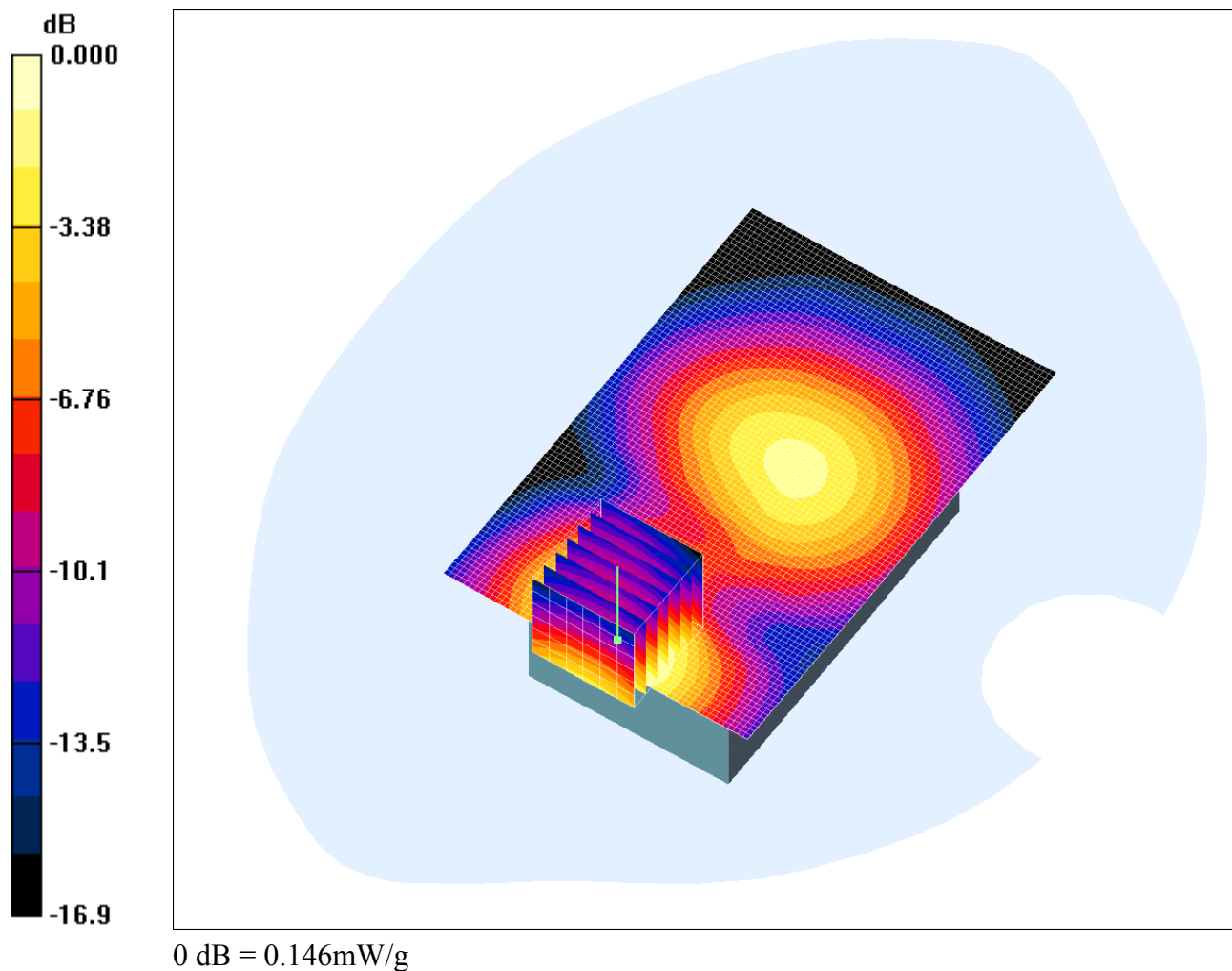
SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.068 mW/g

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

Date: 08/03/2007

72182JD11 006

Test Laboratory: RFI GLOBAL SERVICES LTD.

006 Front of EUT Facing Phantom CH512 15mm PCS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r =$ 52.7; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - Low/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.148 mW/g

Front of EUT Facing Phantom at 15 mm - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.20 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.217 W/kg

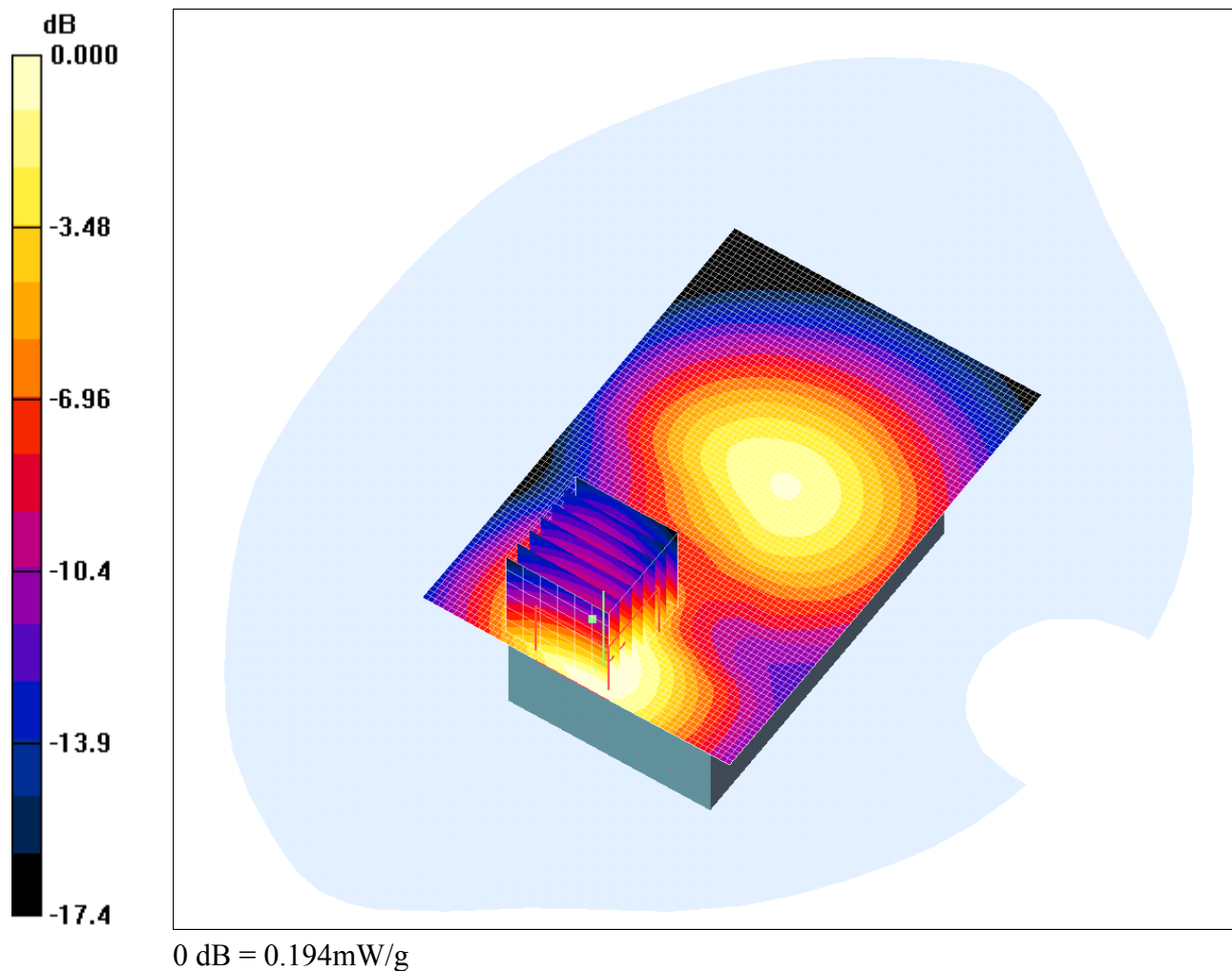
SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.146 mW/g

Date: 08/03/2007

72182JD11 007

Test Laboratory: RFI GLOBAL SERVICES LTD.

007 Front of EUT Facing Phantom CH810 15mm PCS1900**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900 MHz MSL Medium parameters used (interpolated): $f = 1909.8$ MHz; $\sigma = 1.61$ mho/m; $\epsilon_r =$ 52.6; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - High/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.202 mW/g

Front of EUT Facing Phantom at 15 mm - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.37 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 0.297 W/kg

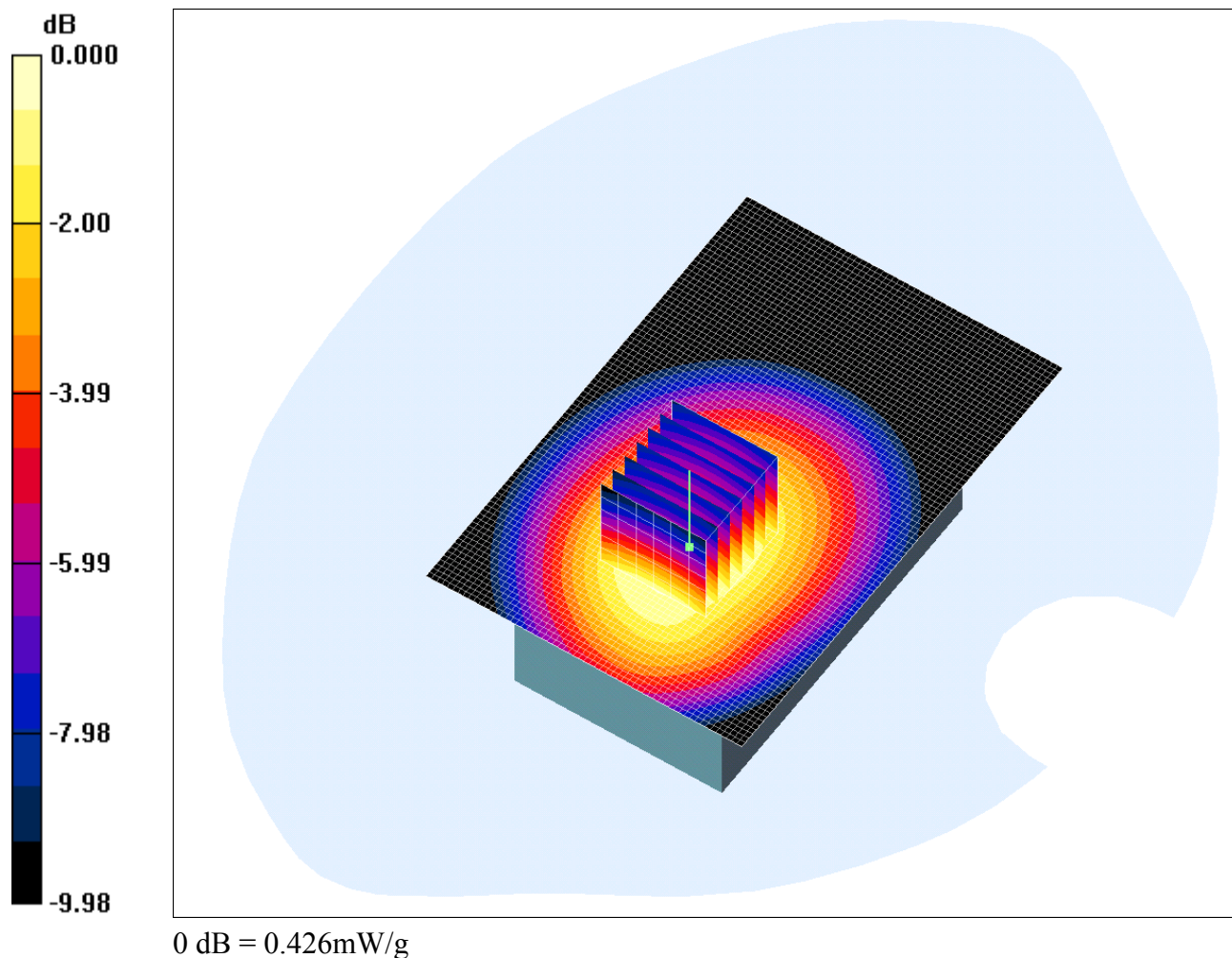
SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.194 mW/g

Date: 08/03/2007

72182JD11 008

Test Laboratory: RFI GLOBAL SERVICES LTD.

008 Front of EUT Facing Phantom CH189 15mm GSM850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r =$ 52.9; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - Middle/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.425 mW/g

Front of EUT Facing Phantom at 15 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.537 W/kg

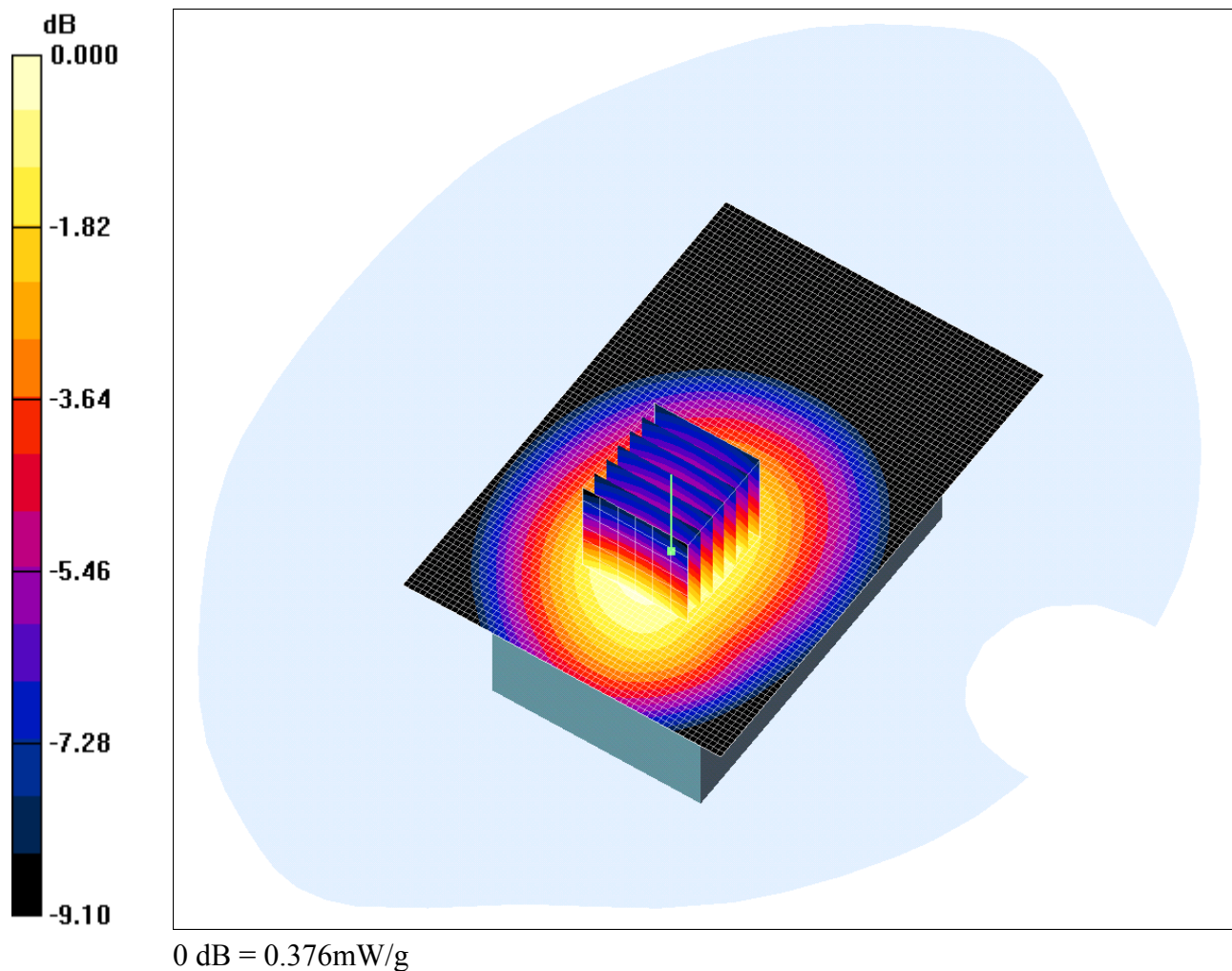
SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.280 mW/g

Maximum value of SAR (measured) = 0.426 mW/g

Date: 08/03/2007

72182JD11 009

Test Laboratory: RFI GLOBAL SERVICES LTD.

009 Front of EUT Facing Phantom CH189 15mm GPRS850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: GPRS 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r =$ 52.9; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - Middle/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.381 mW/g

Front of EUT Facing Phantom at 15 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.233 dB

Peak SAR (extrapolated) = 0.460 W/kg

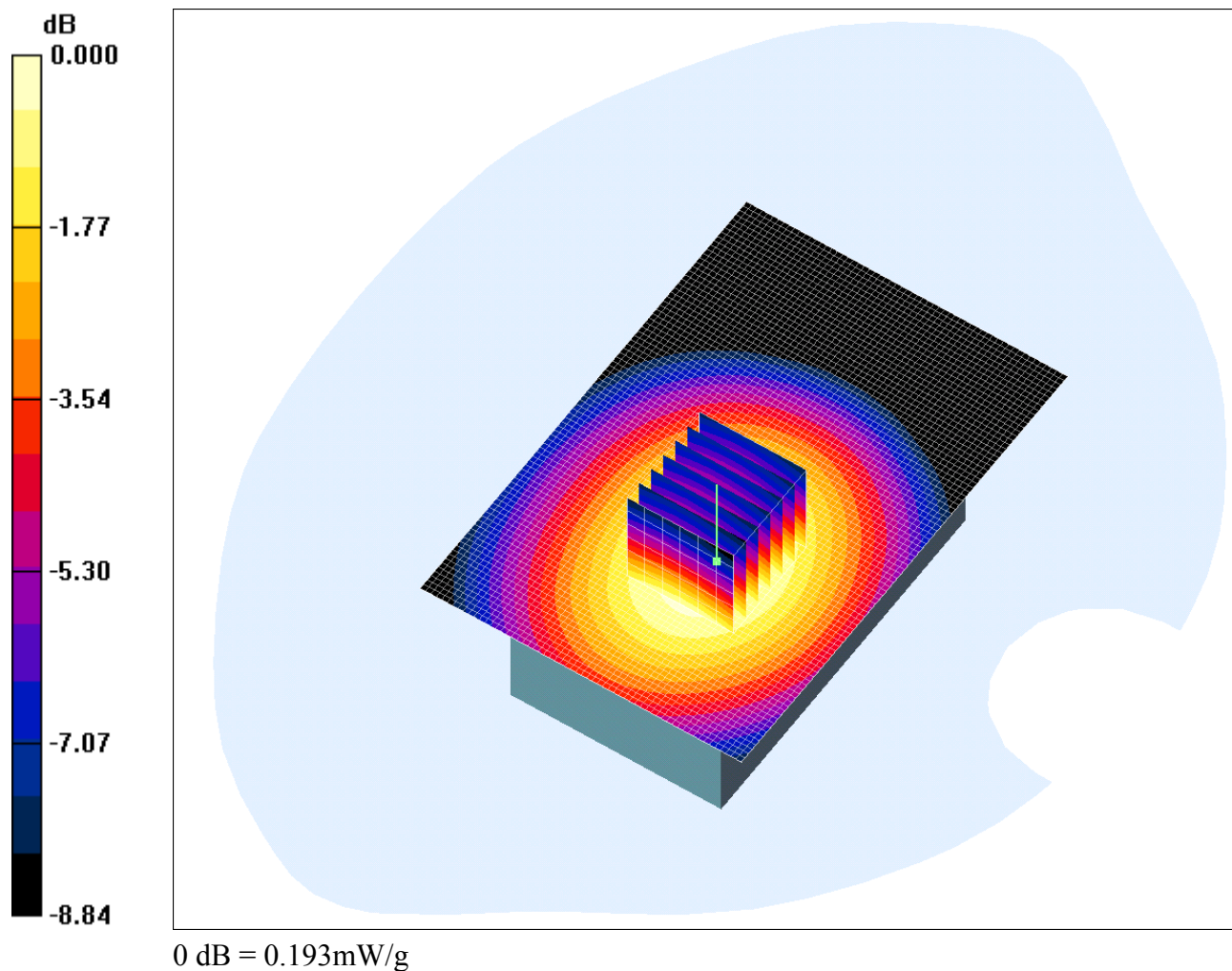
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.255 mW/g

Maximum value of SAR (measured) = 0.376 mW/g

Date: 08/03/2007

72182JD11 010

Test Laboratory: RFI GLOBAL SERVICES LTD.

010 Rear of EUT Facing Phantom CH189 15mm GSM850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r =$ 52.9; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Rear of EUT Facing Phantom at 15 mm - Middle/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Rear of EUT Facing Phantom at 15 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.240 W/kg

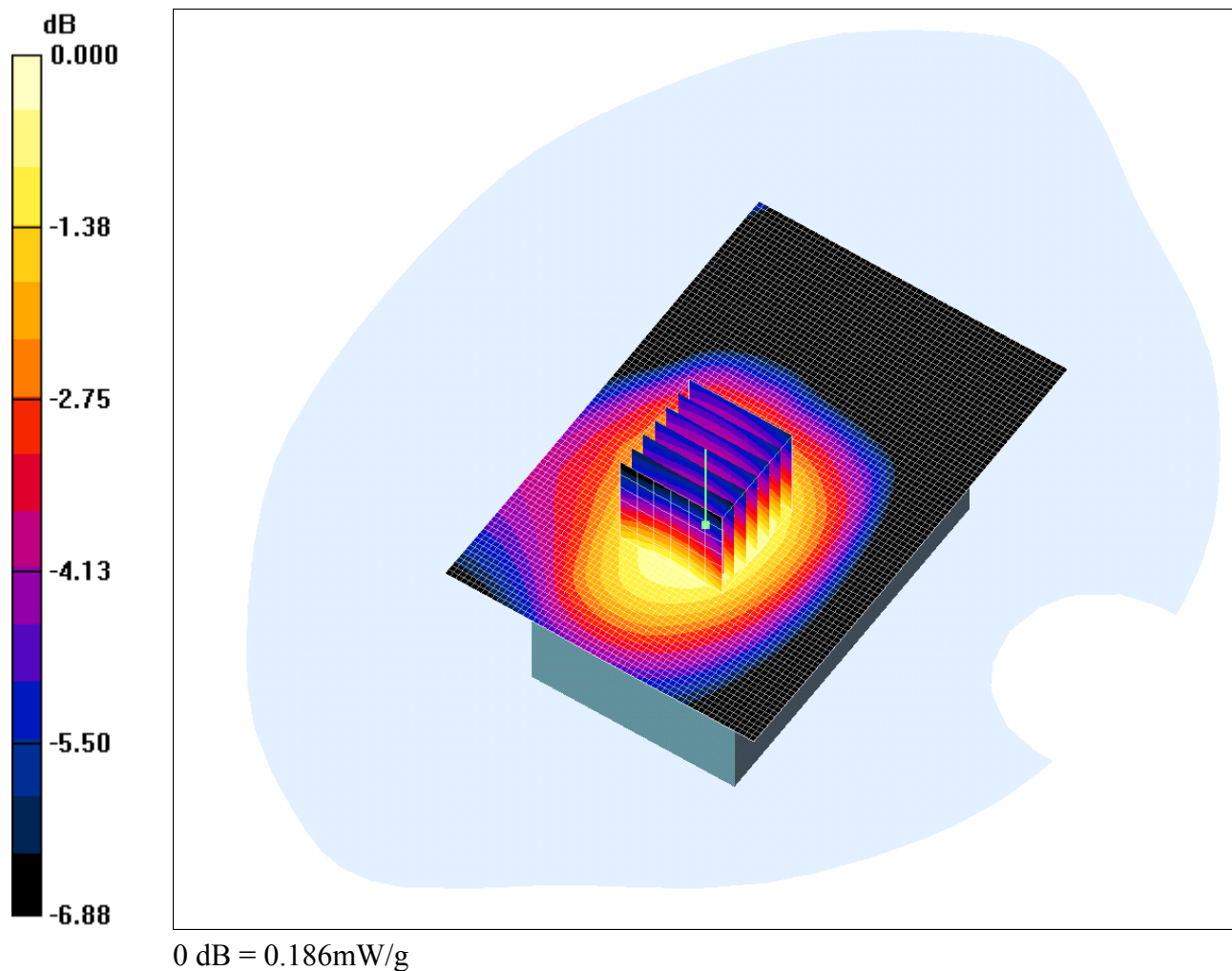
SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.133 mW/g

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

Date: 08/03/2007

72182JD11 011

Test Laboratory: RFI GLOBAL SERVICES LTD.

011 Rear of EUT Facing Phantom with PHF CH189 15mm GSM850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r =$ 52.9; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Rear of EUT Facing Phantom with PHF at 15 mm - Middle/Area Scan (61x91x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.186 mW/g

Rear of EUT Facing Phantom with PHF at 15 mm - Middle/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.5 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.214 W/kg

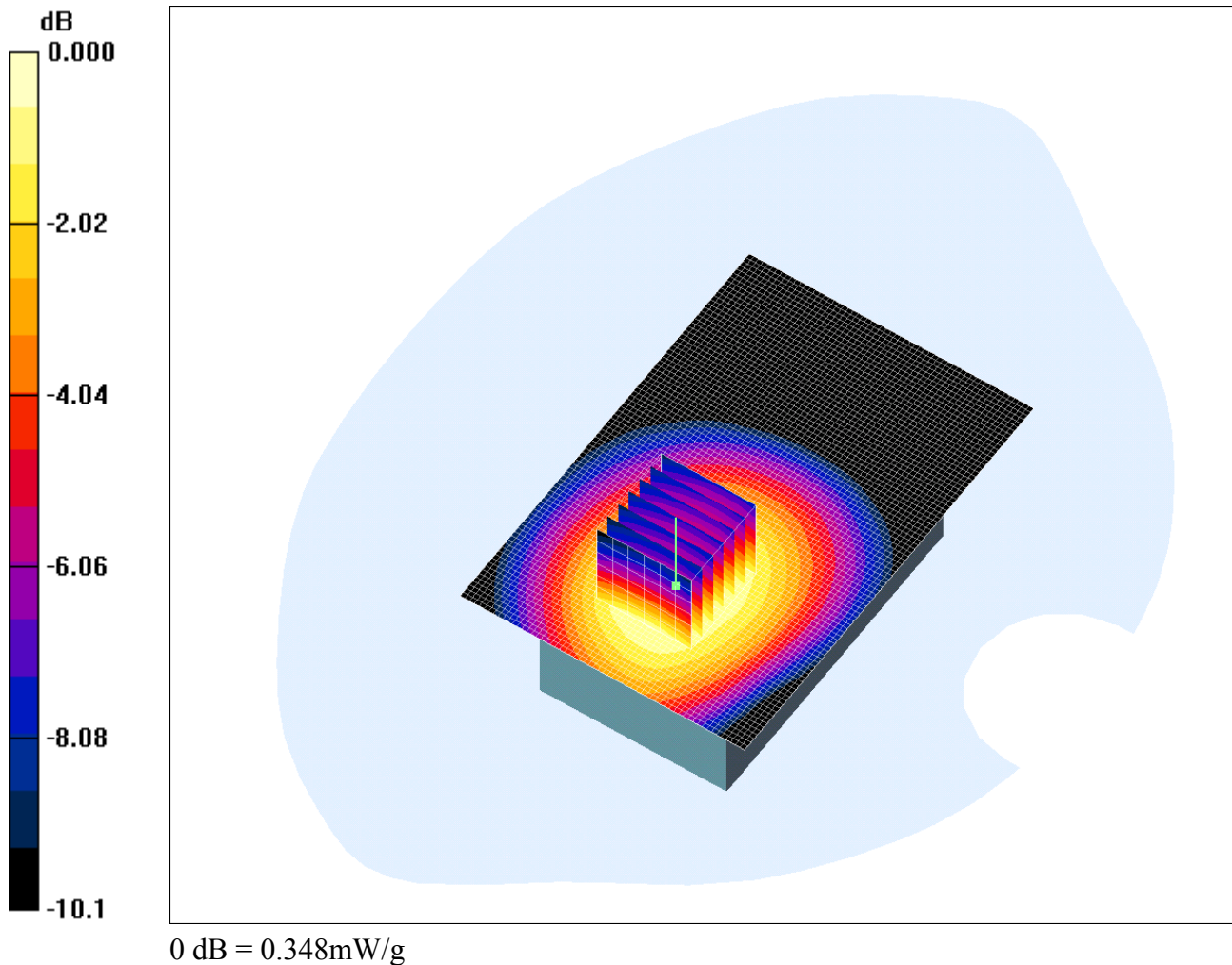
SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.186 mW/g

Date: 08/03/2007

72182JD11 012

Test Laboratory: RFI GLOBAL SERVICES LTD.

012 Front of EUT Facing Phantom with PHF CH189 15mm GSM850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.942$ mho/m; $\epsilon_r =$ 52.9; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom with PHF at 15 mm - Middle/Area Scan (61x91x1):

Measurement grid: dx=15mm, dy=15mm

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

Front of EUT Facing Phantom with PHF at 15 mm - Middle/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.440 W/kg

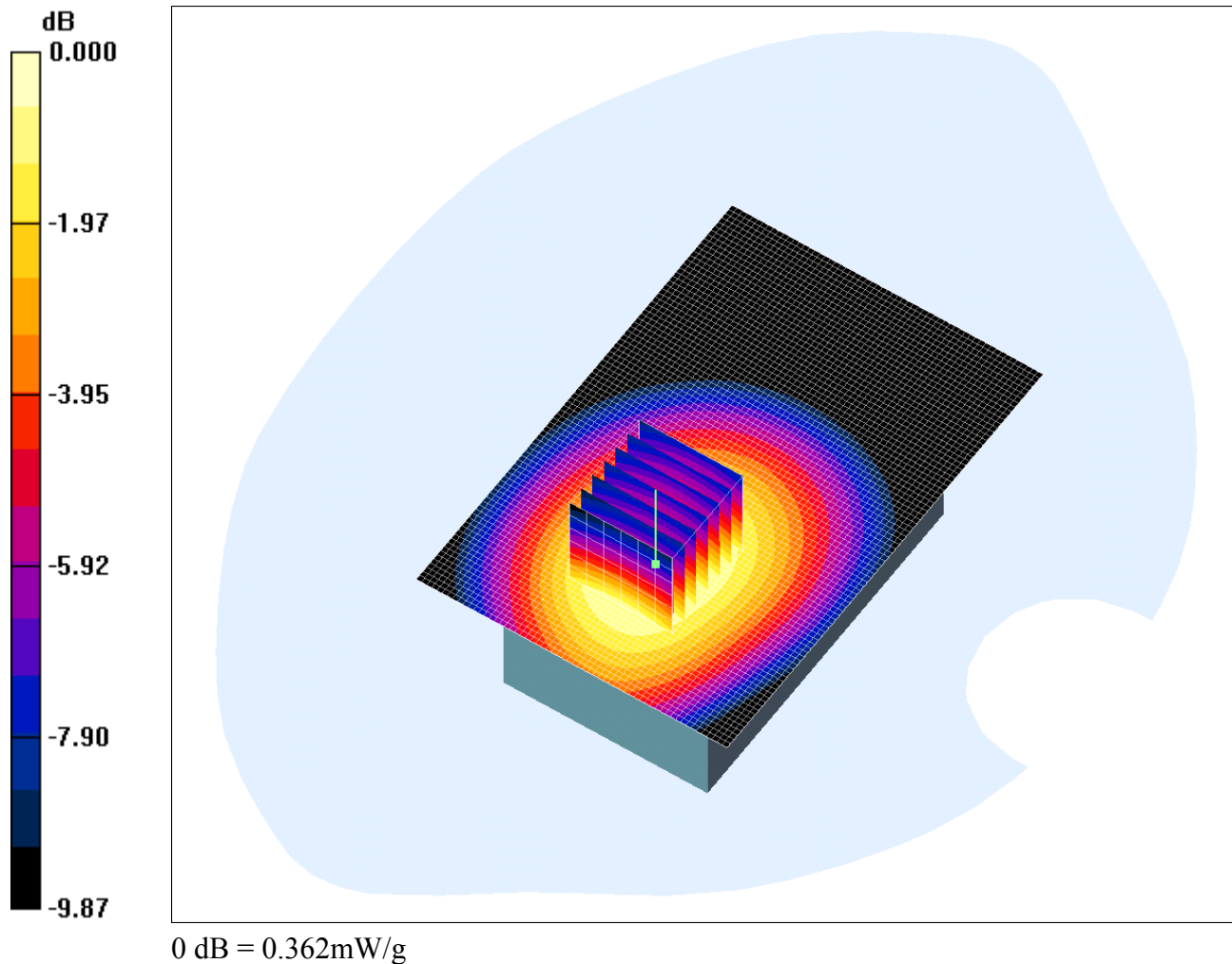
SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.233 mW/g

Maximum value of SAR (measured) = 0.348 mW/g

Date: 08/03/2007

72182JD11 013

Test Laboratory: RFI GLOBAL SERVICES LTD.

013 Front of EUT Facing Phantom CH128 15mm GSM850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: 850 MHz; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - Low/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.357 mW/g

Front of EUT Facing Phantom at 15 mm - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.452 W/kg

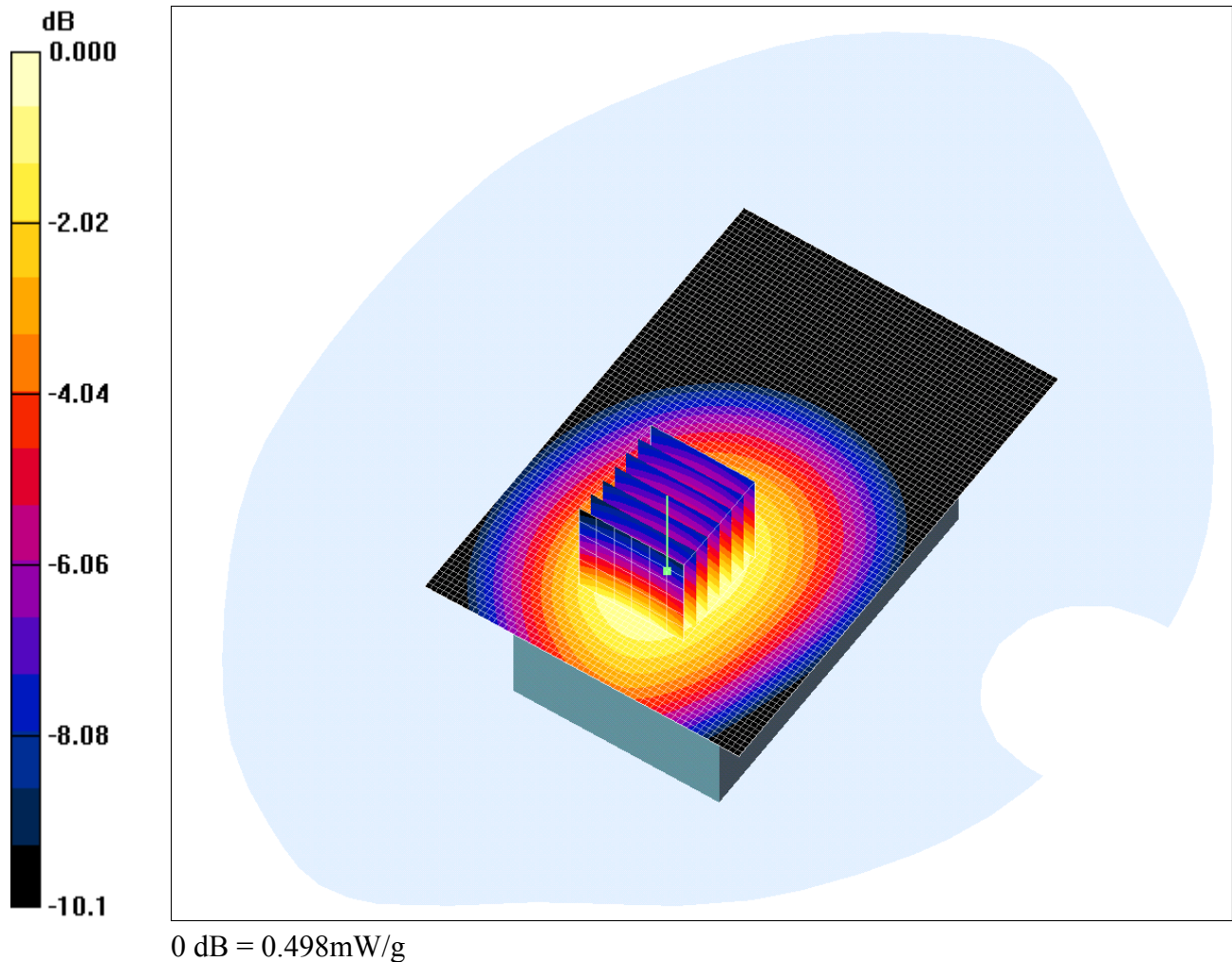
SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 0.362 mW/g

Date: 08/03/2007

72182JD11 014

Test Laboratory: RFI GLOBAL SERVICES LTD.

014 Front of EUT Facing Phantom CH251 15mm GSM850**DUT: ENFORA L.P; Type: GSM2228 Mini MT; Serial: 2228100790200**

Communication System: 850 MHz; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: 900 MHz MSL Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r =$ 52.8; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.29, 6.29, 6.29); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom at 15 mm - High/Area Scan (61x91x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.498 mW/g

Front of EUT Facing Phantom at 15 mm - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.631 W/kg

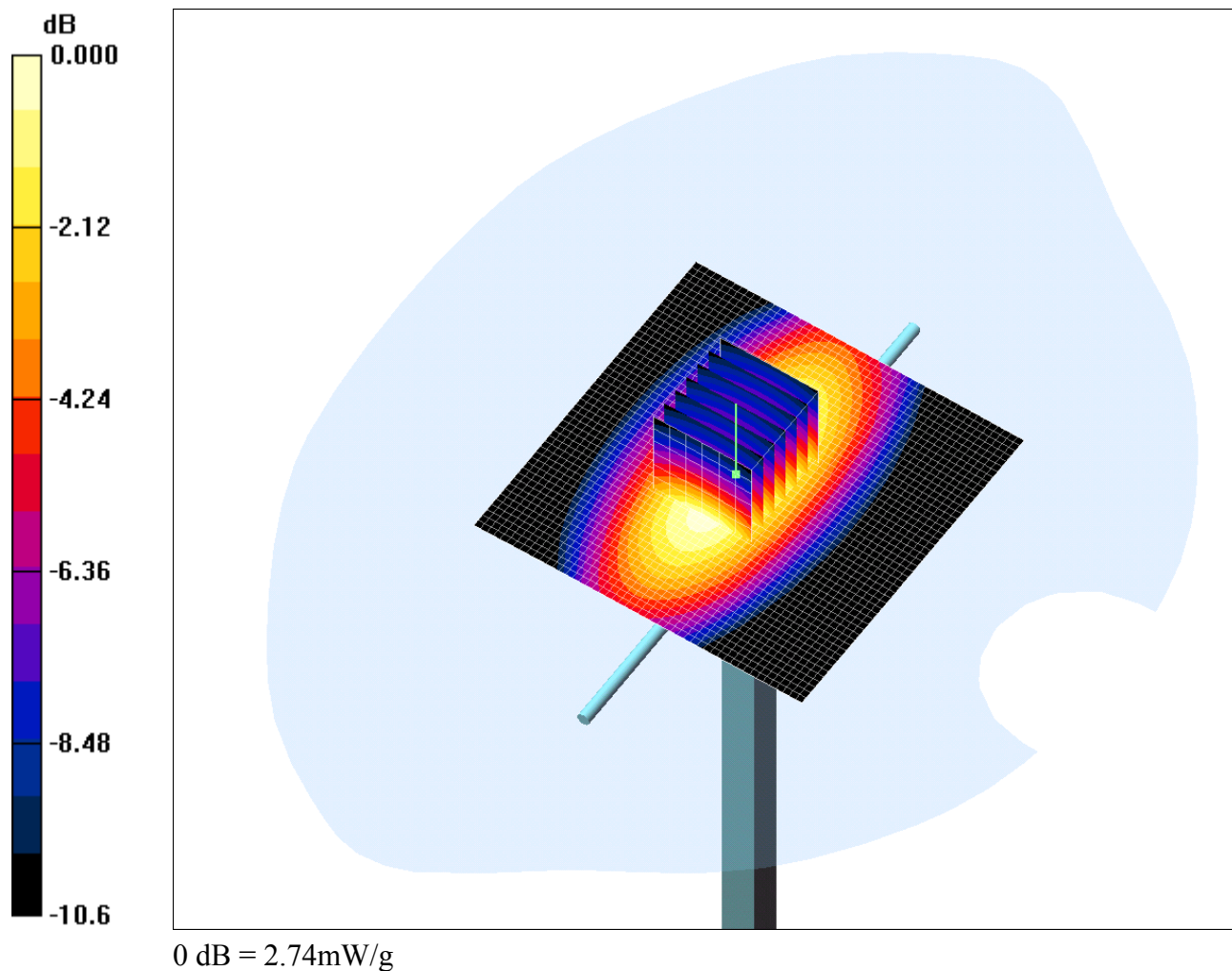
SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.329 mW/g

Maximum value of SAR (measured) = 0.498 mW/g

Date: 08/03/2007

015 Validation 900 MHz MSL

Test Laboratory: RFI GLOBAL SERVICES LTD.

System Performance Check D900 08 03 07**DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:124**

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900 MHz MSL Medium parameters used: $f = 900$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.08, 6.08, 6.08); Calibrated: 12/07/2006

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

- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

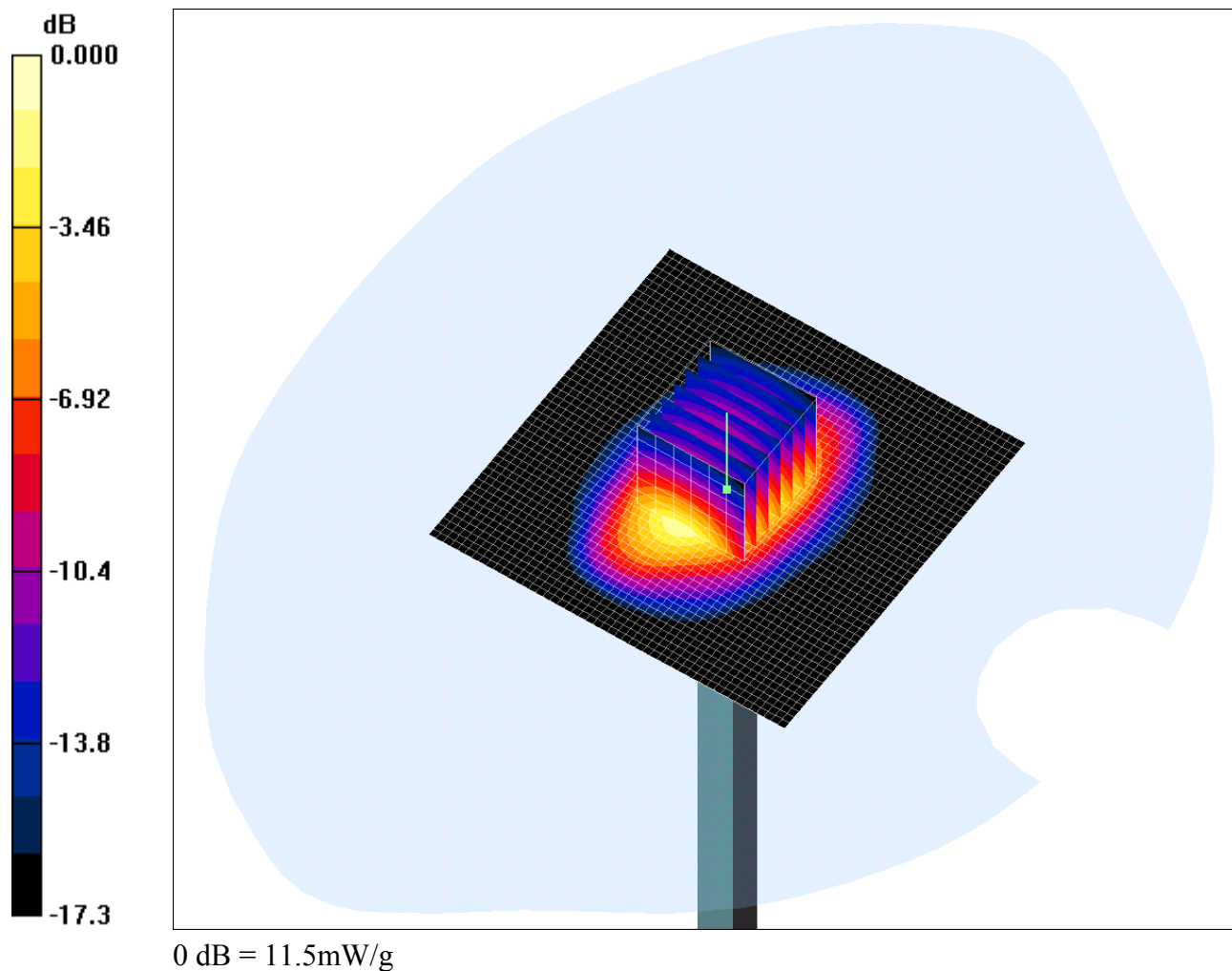
d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.81 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 53.2 V/m; Power Drift = 0.029 dB
Peak SAR (extrapolated) = 3.70 W/kg
SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.64 mW/g
Maximum value of SAR (measured) = 2.74 mW/g

Date: 08/03/2007

016 Validation 1900 MHz MSL

Test Laboratory: RFI GLOBAL SERVICES LTD.

System Performance Check-D1900 08 03 07**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.6$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.55, 4.55, 4.55); Calibrated: 12/07/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 19/05/2006

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=250mW 2/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 14.9 mW/g

d=15mm, Pin=250mW 2/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 89.9 V/m; Power Drift = 0.077 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.32 mW/g
Maximum value of SAR (measured) = 11.5 mW/g