

Test Of: Enfora L.P  
GSM3408  
To: OET Bulletin 65 Supplement C: (2001-01)

---

## **Appendix 2. SAR Distribution Scans**

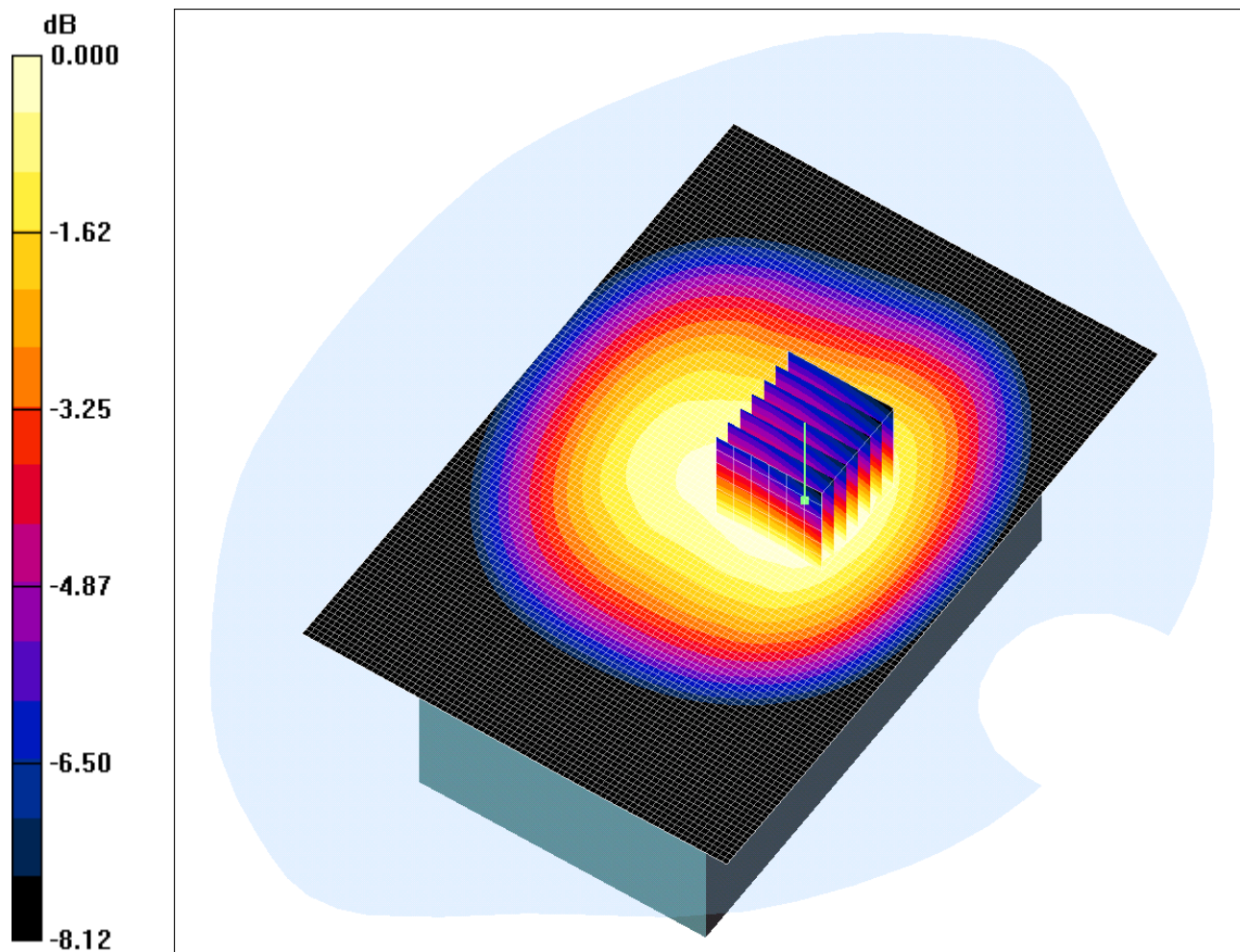
This appendix contains SAR distribution scans.

<b>Scan Reference Number</b>	<b>Title</b>
SCN/72183/001	Display of EUT Facing Phantom CH189 15mm GSM
SCN/72183/002	Rear of EUT Facing Phantom CH189 15mm GSM
SCN/72183/003	Rear of EUT Facing Phantom CH189 15mm GPRS
SCN/72183/004	Display of EUT Facing Phantom CH660 15mm GSM
SCN/72183/005	Rear of EUT Facing Phantom CH660 15mm GSM
SCN/72183/006	Rear of EUT Facing Phantom CH660 15mm GPRS
SCN/72183/Validation 001	System Performance Check 26 09 06
SCN/72183/Validation 002	System Performance Check D1900 26 09 06

Date: 26/09/2006

72183\_JD11\_001

Test Laboratory: RFI GLOBAL SERVICES LTD.

**72183\_JD11\_001\_Display\_of\_EUT\_Facing\_Phantom\_CH189\_15mm\_GSM****DUT: ENFORA L.P; Type: GSM3408; IMEI: 01106900050049**

0 dB = 0.155mW/g

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;  $\sigma = 0.944$  mho/m;  $\epsilon_r =$ 53.4;  $\rho = 1000$  kg/m<sup>3</sup>

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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Display of EUT Facing Phantom at 15 mm - Middle/Area Scan (81x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.155 mW/g

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

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

Reference Value = 12.9 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.186 W/kg

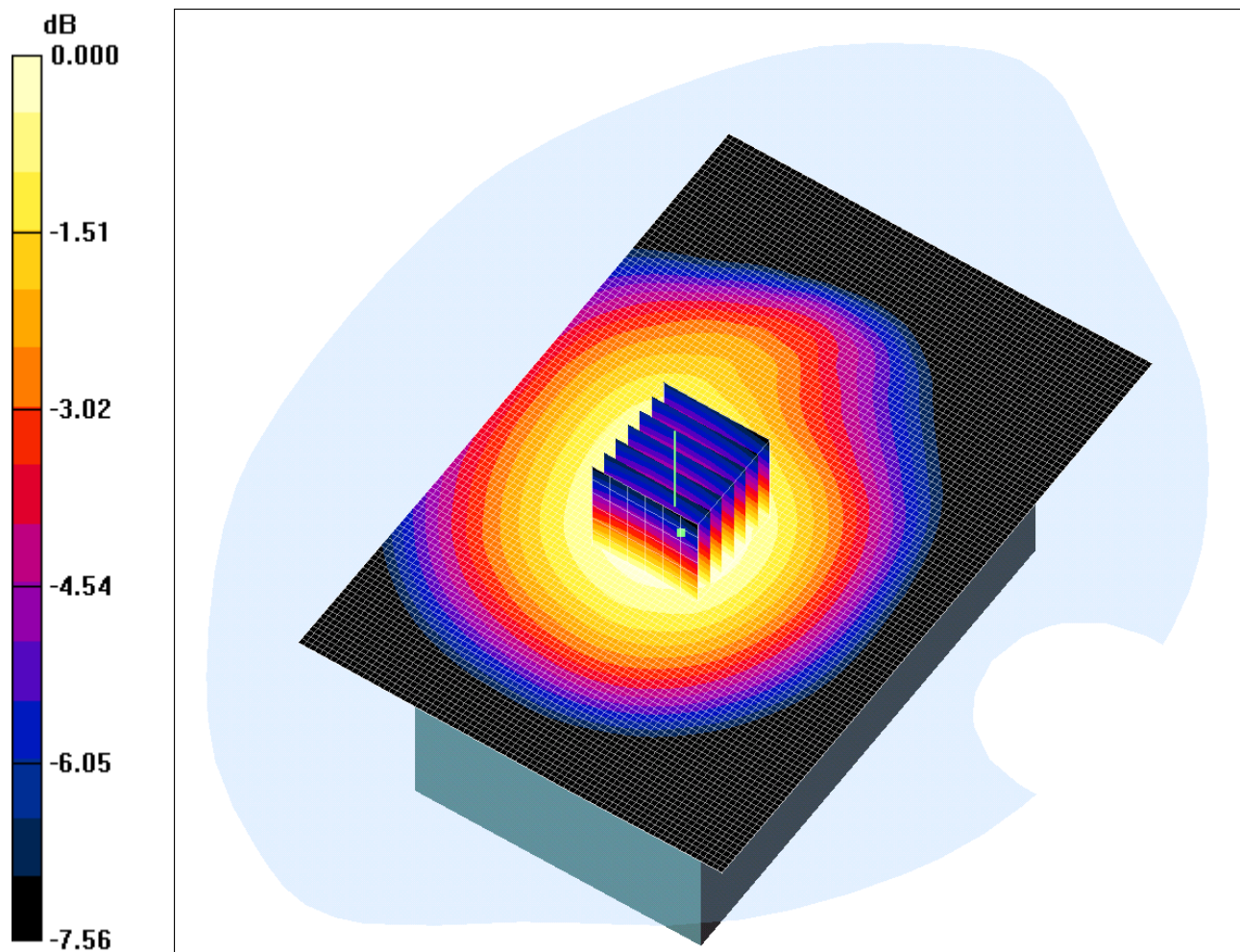
**SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.113 mW/g**

Maximum value of SAR (measured) = 0.155 mW/g

Date: 26/09/2006

72183\_JD11\_002

Test Laboratory: RFI GLOBAL SERVICES LTD.

**72183\_JD11\_002\_Rear\_of\_EUT\_Facing\_Phantom\_CH189\_15mm\_GSM****DUT: ENFORA L.P; Type: GSM3408; IMEI: 01106900050049**

0 dB = 0.182mW/g

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;  $\sigma = 0.944$  mho/m;  $\epsilon_r =$ 53.4;  $\rho = 1000$  kg/m<sup>3</sup>

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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Rear of EUT Facing Phantom at 15 mm - Middle/Area Scan (81x121x1):** Measurement grid:  
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.184 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 = 14.1 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.214 W/kg

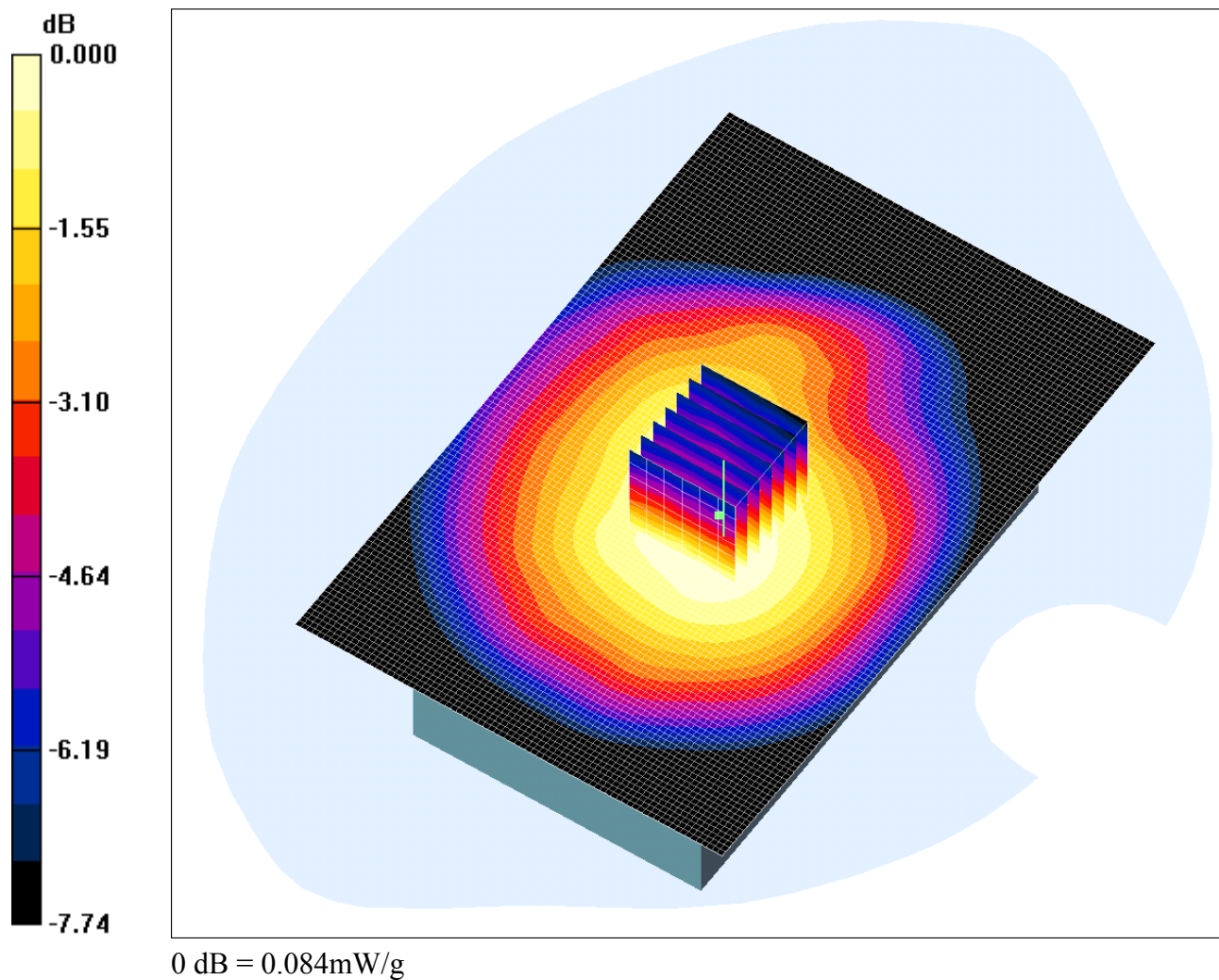
**SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.133 mW/g**

Maximum value of SAR (measured) = 0.182 mW/g

Date: 26/09/2006

72183\_JD11\_003

Test Laboratory: RFI GLOBAL SERVICES LTD.

**72183\_JD11\_003\_Rear\_of\_EUT\_Facing\_Phantom\_CH189\_15mm\_GPRS****DUT: ENFORA L.P; Type: GSM3408; IMEI: 01106900050049**

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;  $\sigma = 0.944$  mho/m;  $\epsilon_r =$ 53.4;  $\rho = 1000$  kg/m<sup>3</sup>

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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Rear of EUT Facing Phantom at 15 mm - Middle/Area Scan (81x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.083 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 = 9.60 V/m; Power Drift = -0.297 dB

Peak SAR (extrapolated) = 0.098 W/kg

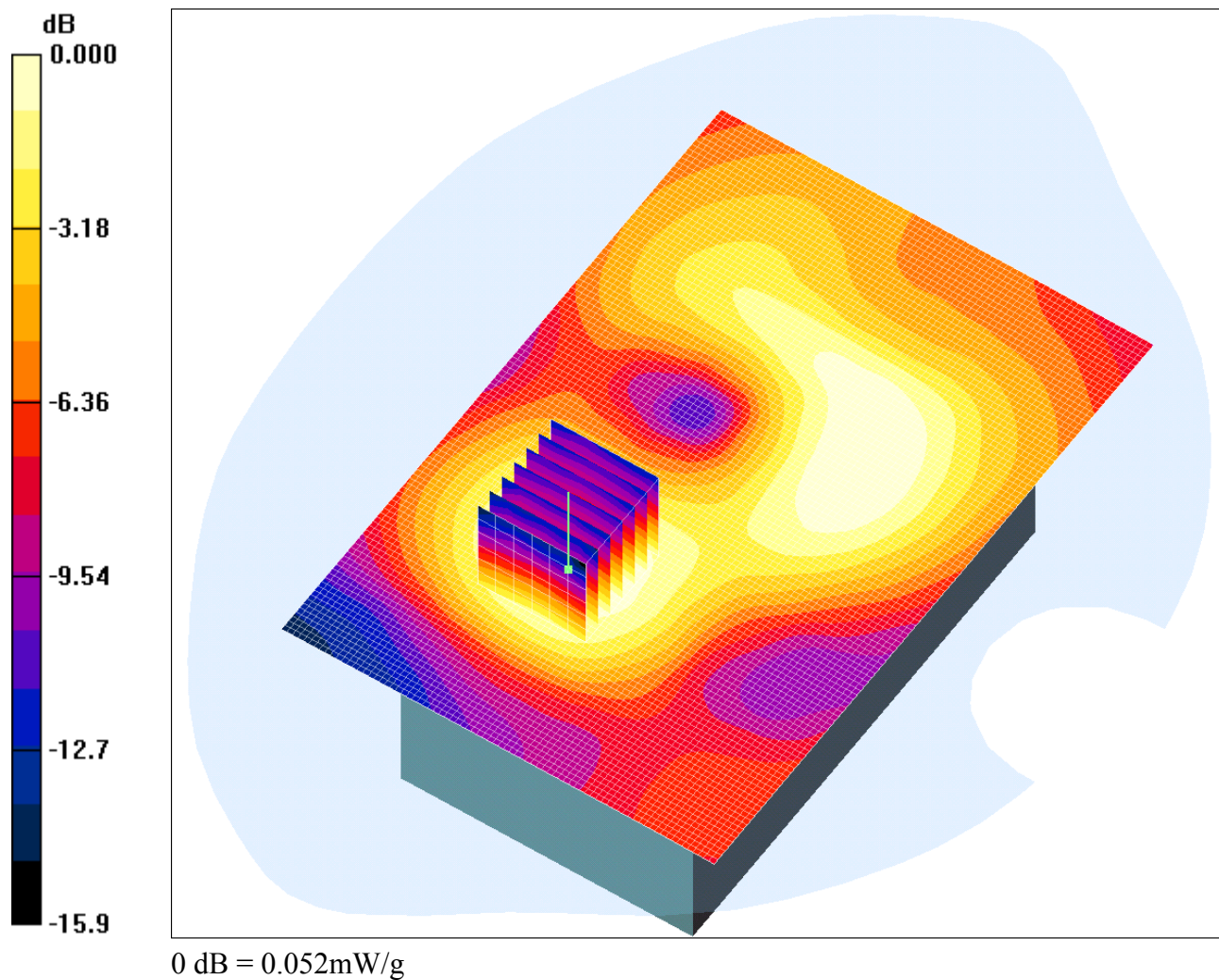
**SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.061 mW/g**

Maximum value of SAR (measured) = 0.084 mW/g

Date: 26/09/2006

72183\_JD11\_004

Test Laboratory: RFI GLOBAL SERVICES LTD.

**72183\_JD11\_004\_Display\_of\_EUT\_Facing\_Phantom\_CH660\_15mm\_GSM****DUT: ENFORA L.P; Type: GSM3408; IMEI: 01106900050049**

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;  $\epsilon_r =$ 51.9;  $\rho = 1000$  kg/m<sup>3</sup>

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 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Display of EUT Facing Phantom at 15 mm - Middle/Area Scan (81x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.053 mW/g

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

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

Reference Value = 3.92 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.076 W/kg

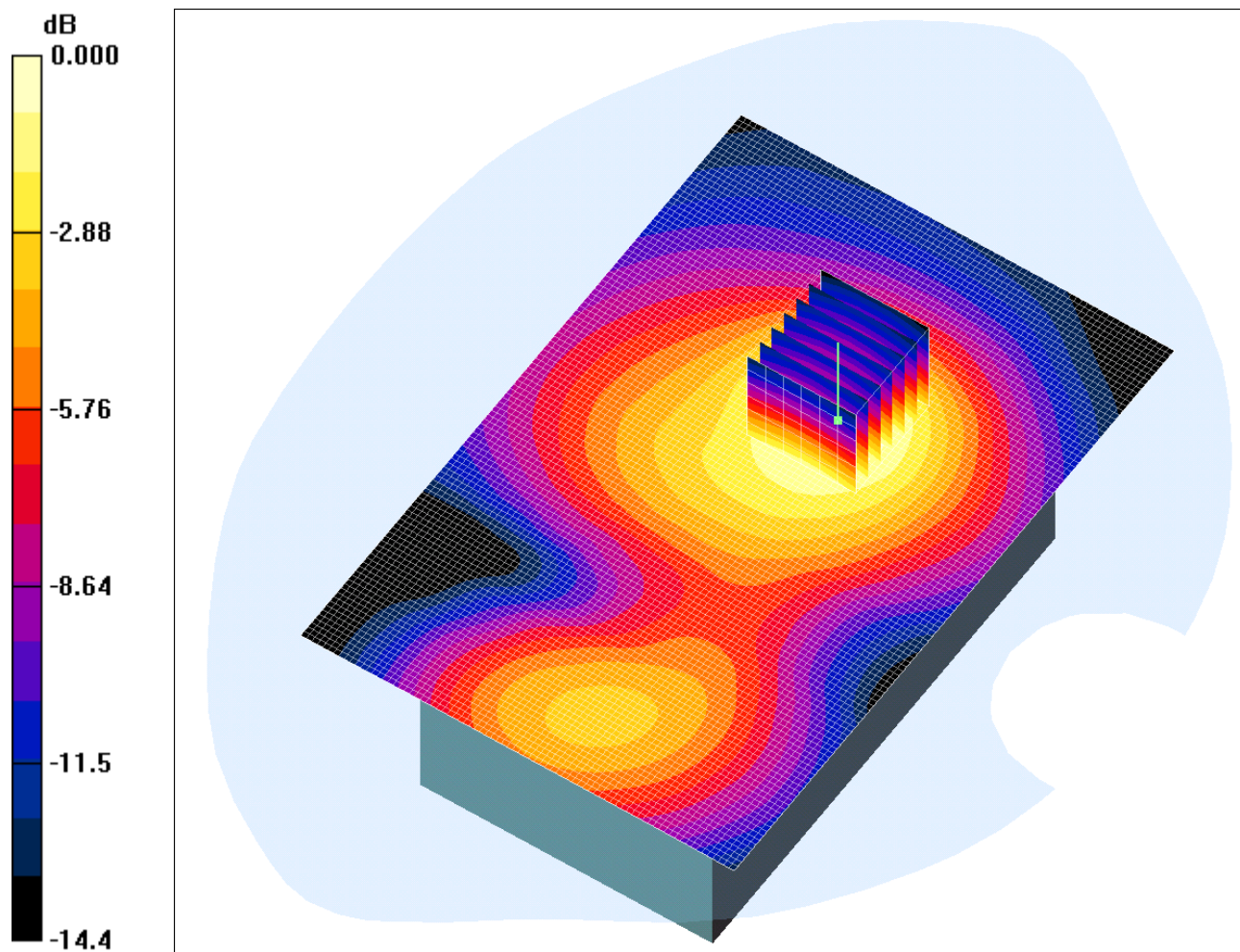
**SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.052 mW/g

Date: 26/09/2006

72183\_JD11\_005

Test Laboratory: RFI GLOBAL SERVICES LTD.

**72183\_JD11\_005\_Rear\_of\_EUT\_Facing\_Phantom\_CH660\_15mm\_GSM****DUT: ENFORA L.P; Type: GSM3408; IMEI: 01106900050049**

0 dB = 0.363mW/g

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;  $\epsilon_r =$ 51.9;  $\rho = 1000$  kg/m<sup>3</sup>

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 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Rear of EUT Facing Phantom at 15 mm - Middle/Area Scan (81x121x1):** Measurement grid:  
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.363 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 = 11.8 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.552 W/kg

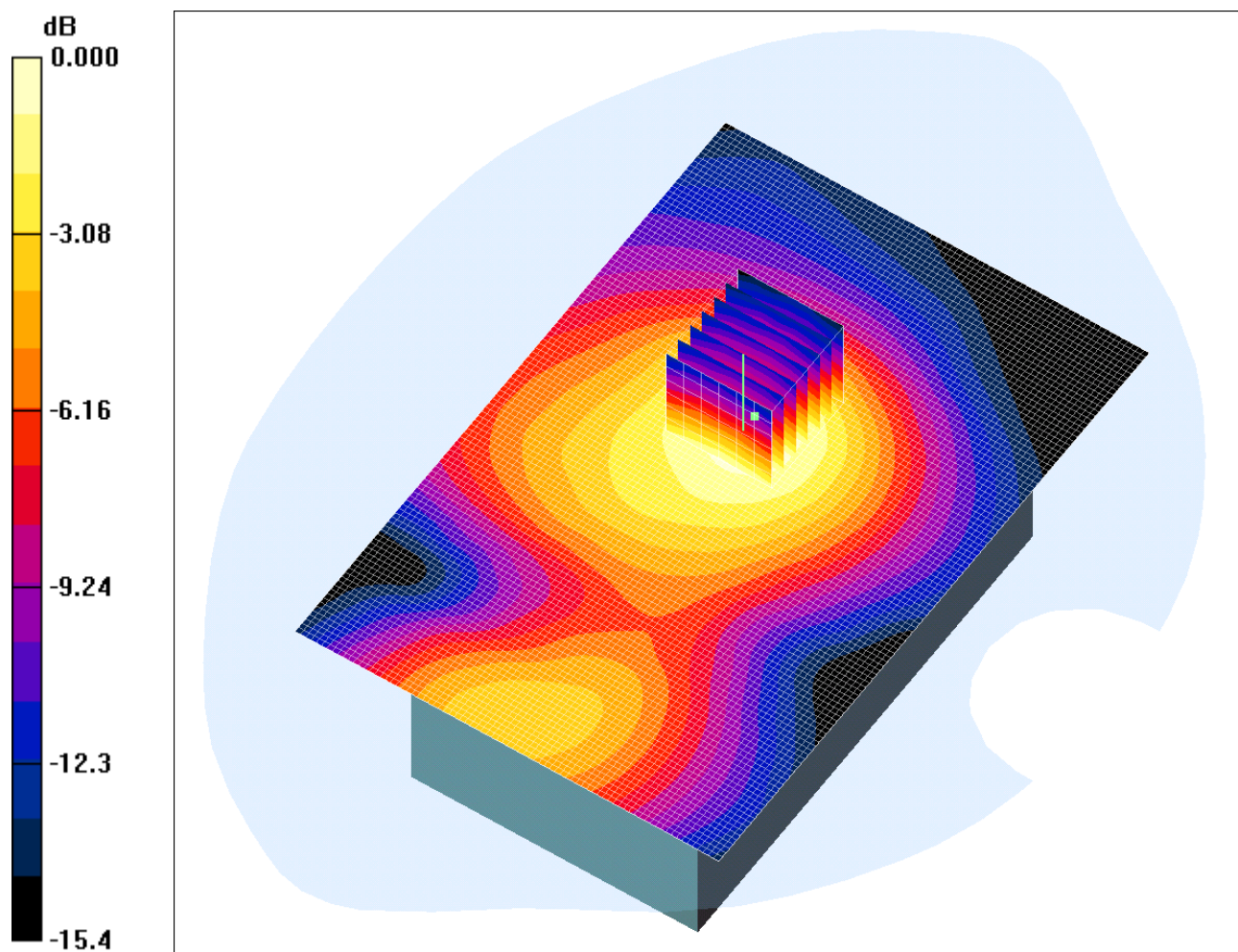
**SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.209 mW/g**

Maximum value of SAR (measured) = 0.363 mW/g

Date: 26/09/2006

72183\_JD11\_006

Test Laboratory: RFI GLOBAL SERVICES LTD.

**72183\_JD11\_006\_Rear\_of\_EUT\_Facing\_Phantom\_CH660\_15mm\_GPRS****DUT: ENFORA L.P; Type: GSM3408; IMEI: 01106900050049**

0 dB = 0.177mW/g

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;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Rear of EUT Facing Phantom at 15 mm - Middle/Area Scan (81x121x1):** Measurement grid:  
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.169 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 = 9.66 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.272 W/kg

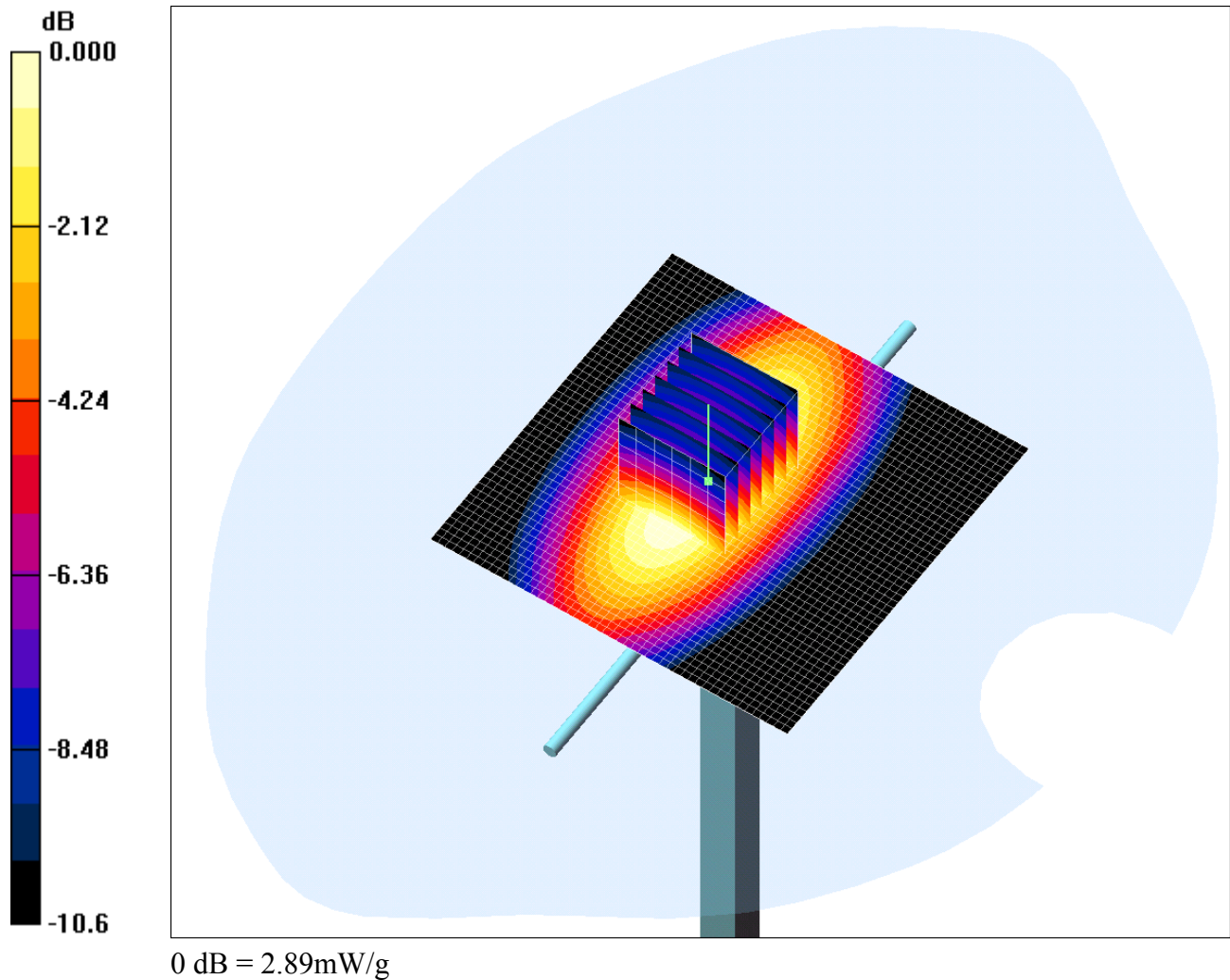
**SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.103 mW/g**

Maximum value of SAR (measured) = 0.177 mW/g

Date: 26/09/2006

72183\_JD11\_Validation\_001

Test Laboratory: RFI GLOBAL SERVICES LTD.

**System Performance Check\_26\_09\_06****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;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  $\text{kg/m}^3$ 

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 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**d=10mm, Pin=250mW/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 3.08 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 = -0.164 dB

Peak SAR (extrapolated) = 3.88 W/kg

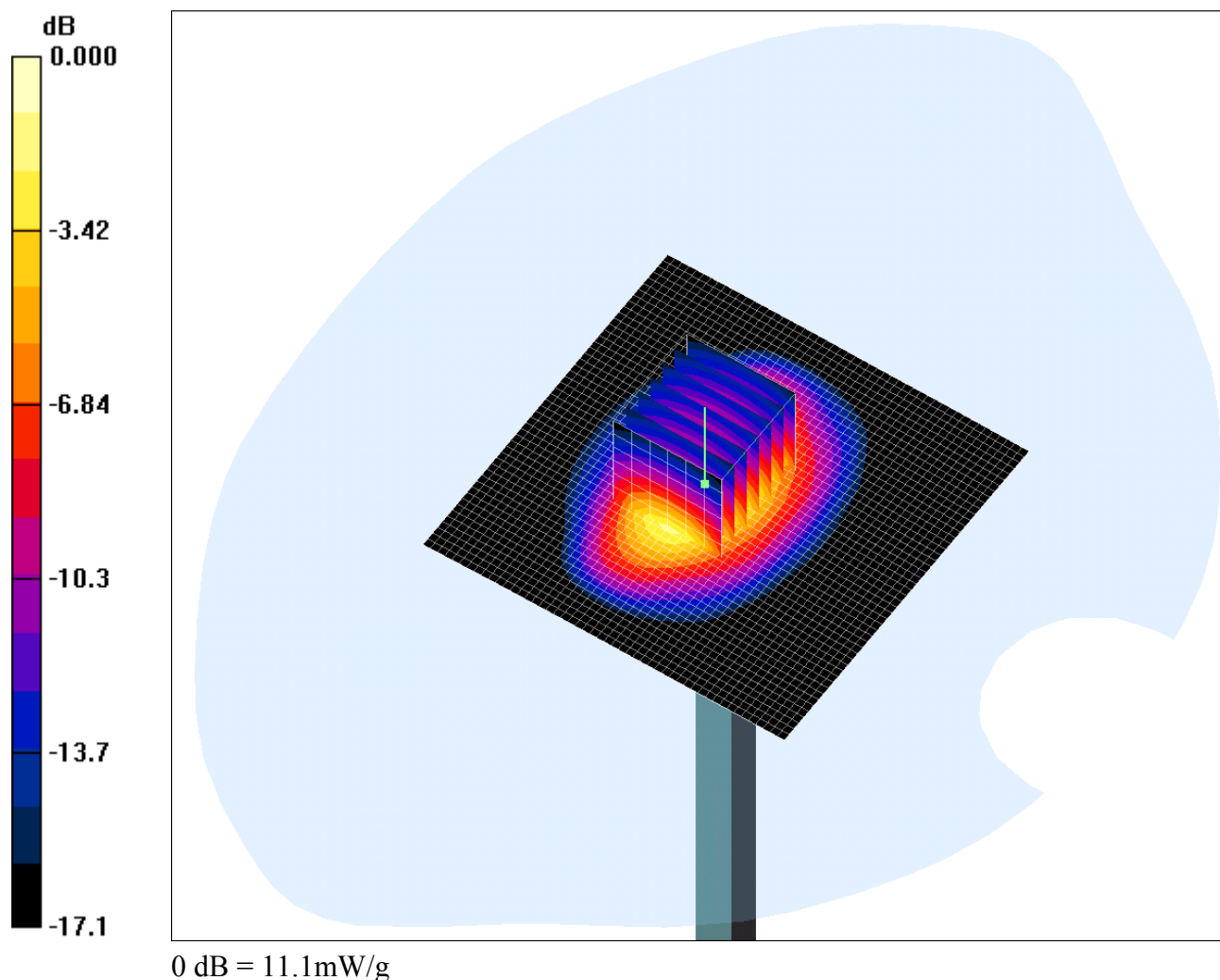
**SAR(1 g) = 2.66 mW/g; SAR(10 g) = 1.74 mW/g**

Maximum value of SAR (measured) = 2.89 mW/g

Date: 26/09/2006

72183\_JD11\_Validation\_002

Test Laboratory: RFI GLOBAL SERVICES LTD.

**System Performance Check-D1900 26 09 06****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;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$ kg/m<sup>3</sup>

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 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**d=15mm, Pin=250mW 2/Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm  
Maximum value of SAR (interpolated) = 13.2 mW/g

**d=15mm, Pin=250mW 2/Zoom Scan 7x7x7 (7x7x7)/Cube 0:** Measurement grid: dx=5mm,  
dy=5mm, dz=5mm

Reference Value = 82.0 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 9.82 mW/g; SAR(10 g) = 5.18 mW/g**

Maximum value of SAR (measured) = 11.1 mW/g

Test Of: Enfora L.P  
GSM3408

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

---

### **Appendix 3. Test Configuration Photograph(s)**

This appendix contains the following photograph(s):

<b>Photograph Reference Number</b>	<b>Title</b>
PHT/SAR Configuration	Test configuration for the measurement of Specific Absorption Rate (SAR)

Test Of: Enfora L.P  
GSM3408  
To: OET Bulletin 65 Supplement C: (2001-01)

---

**PHT/SAR Configuration**

