Appendix 2. 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/48517JD01/013	Display Of EUT Facing Phantom GPRS CH660
SCN/48517JD01/014	Rear Of EUT Facing Phantom GPRS CH660
SCN/48517JD01/015	Rear Of EUT Facing Phantom With Belt Clip GPRS CH660
SCN/48517JD01/016	Rear Of EUT Facing Phantom With PHF GPRS CH660
SCN/48517JD01/017	Rear Of EUT Facing Phantom With PHF GPRS CH512
SCN/48517JD01/018	Rear Of EUT Facing Phantom With PHF GPRS CH810
SCN/48517JD01/023	Touch Left CH660
SCN/48517JD01/024	Tilt Left CH660
SCN/48517JD01/025	Touch Right CH660
SCN/48517JD01/026	Tilt Right CH660
SCN/48517JD01/Validation 003	System Performance Check-D1900 30 08 06

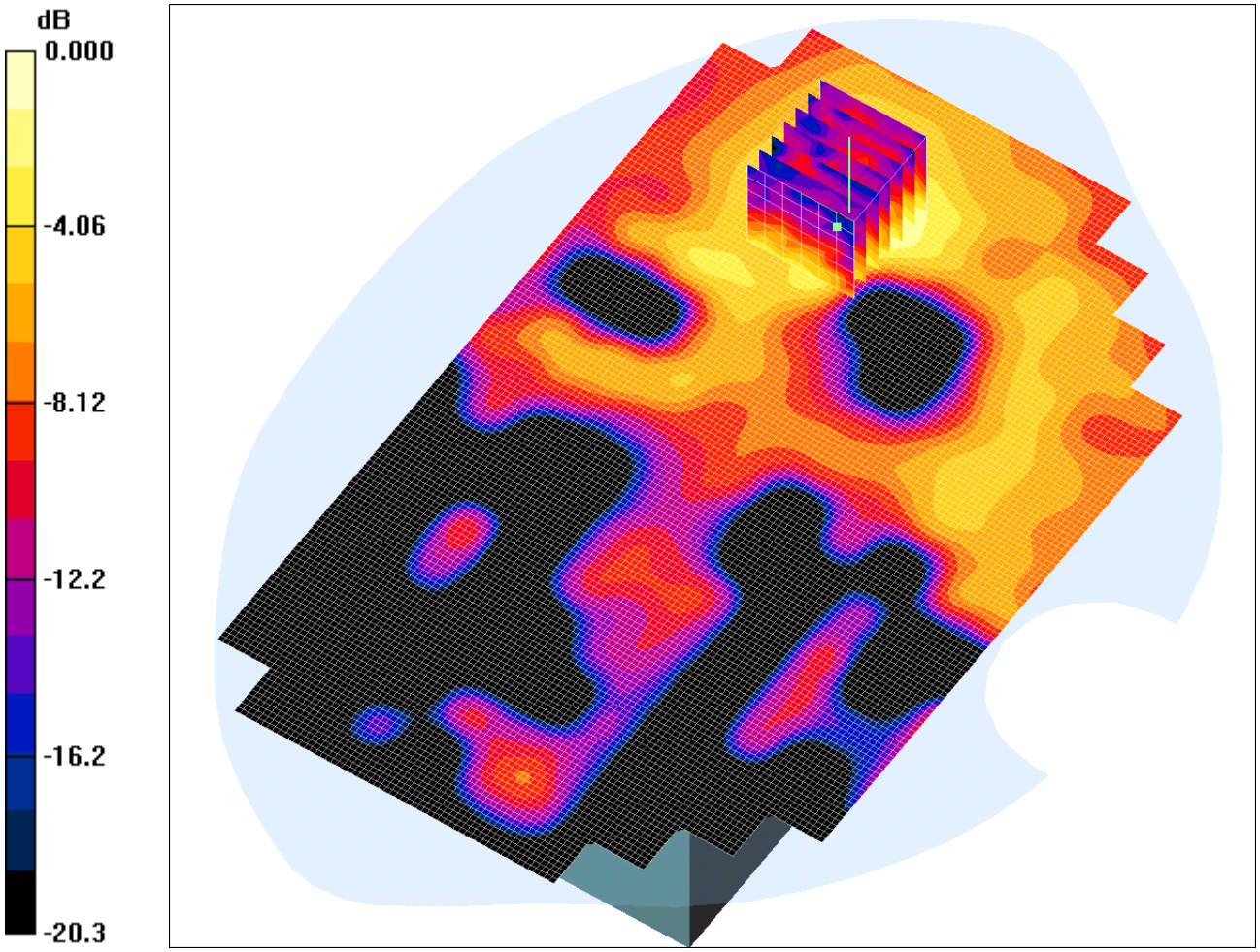
Date: 30/08/2006

48517_JD01_013

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_013_Display_Of_EUT_Facing_Phantom_GPRS_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.015mW/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; σ = 1.57 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
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 - Middle/Area Scan (101x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.015 mW/g

Display Of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.10 V/m; Power Drift = 0.148 dB
Peak SAR (extrapolated) = 0.020 W/kg
SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00672 mW/g

Maximum value of SAR (measured) = 0.015 mW/g

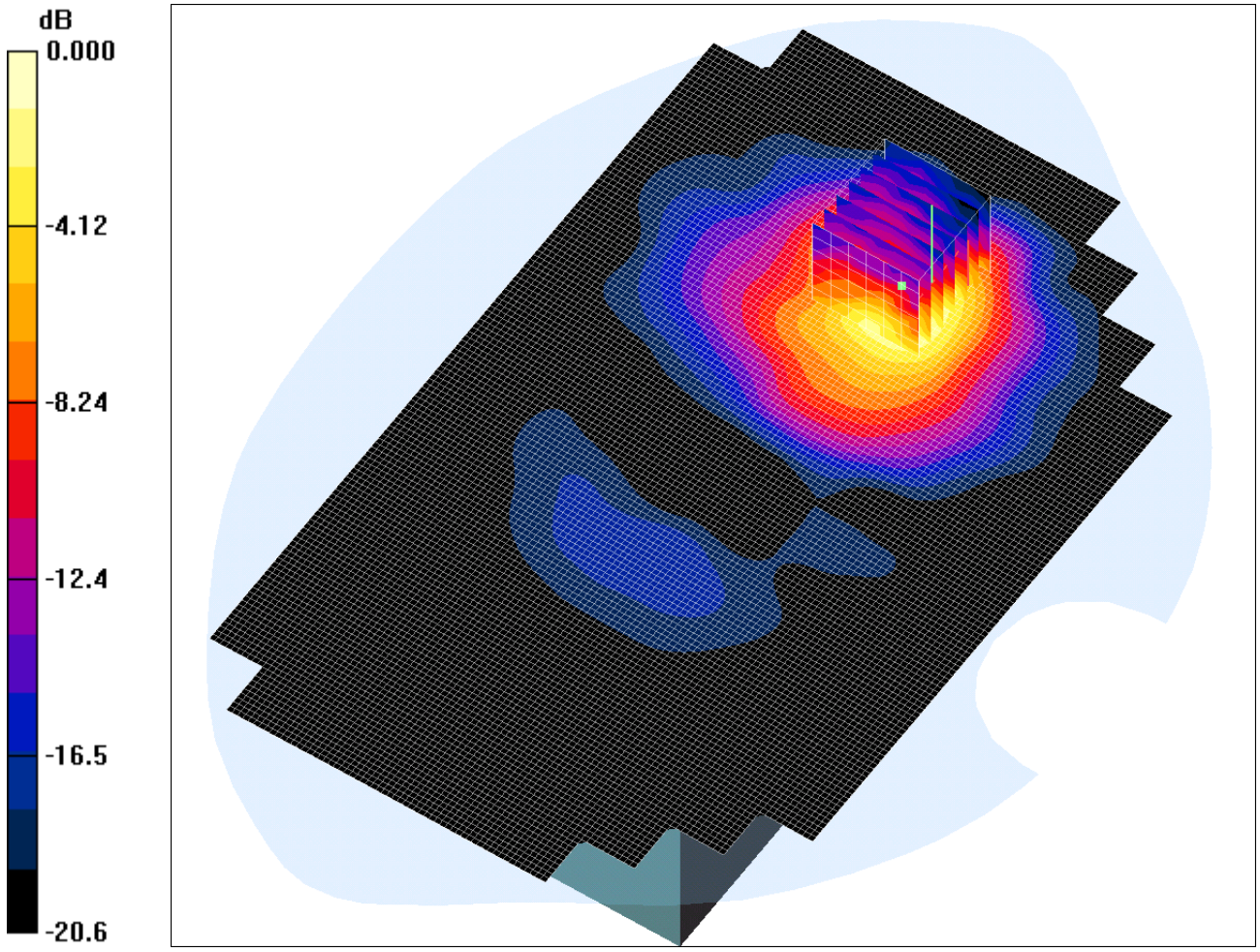
Date: 30/08/2006

48517_JD01_014

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_014_Rear_Of_EUT_Facing_Phantom_GPRS_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.579mW/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; σ = 1.57 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
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 - Middle/Area Scan (101x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.637 mW/g

Rear Of EUT Facing Phantom - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.25 V/m; Power Drift = 0.109 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.252 mW/g

Maximum value of SAR (measured) = 0.579 mW/g

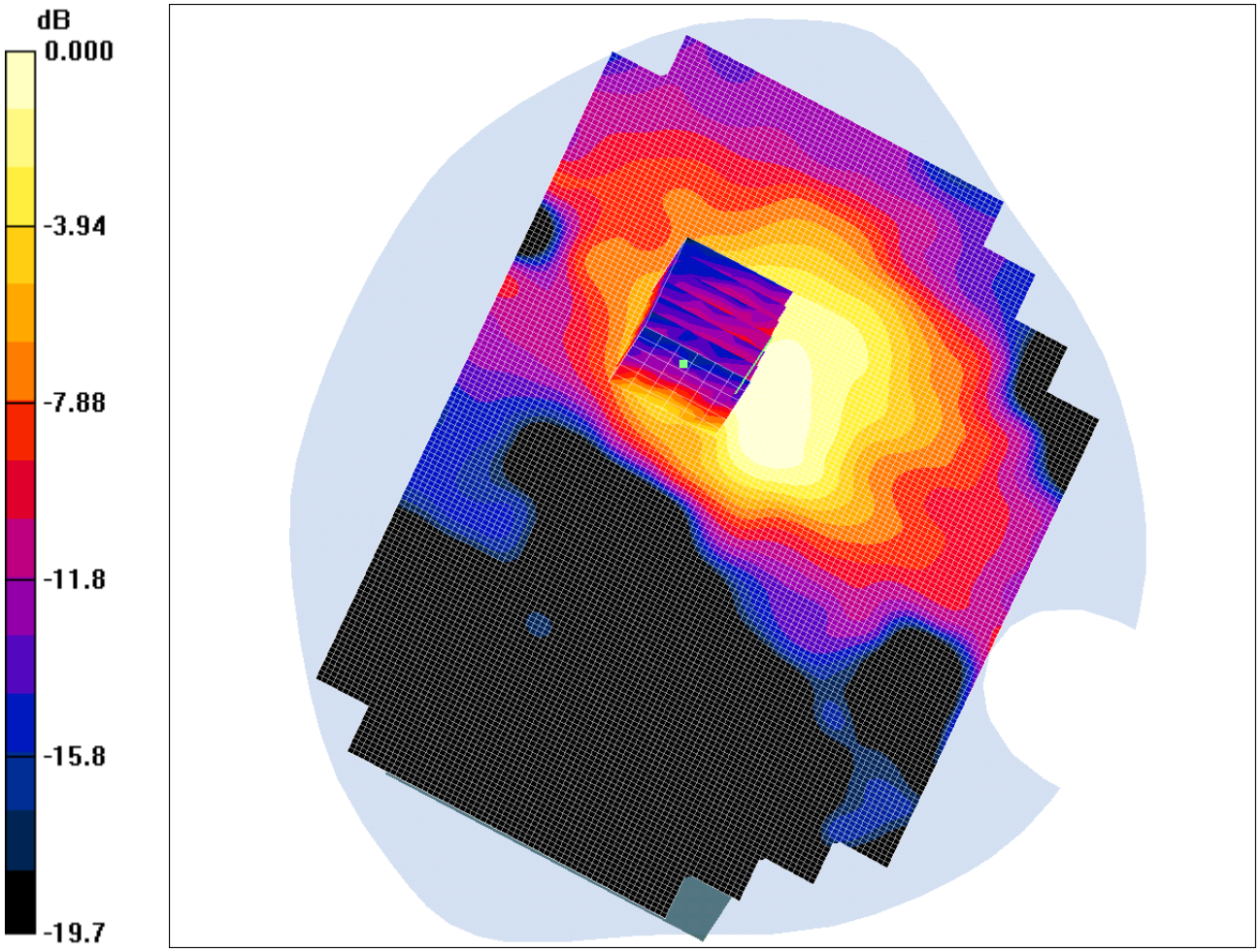
Date: 30/08/2006

48517_JD01_015

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_015_Rear_Of_EUT_Facing_Phantom_With_Belt_Clip_GPRS_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.048mW/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; σ = 1.57 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
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 With Belt Clip - Middle/Area Scan (101x161x1):
Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.047 mW/g

Rear Of EUT Facing Phantom With Belt Clip - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.88 V/m; Power Drift = -0.178 dB
Peak SAR (extrapolated) = 0.099 W/kg
SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.048 mW/g

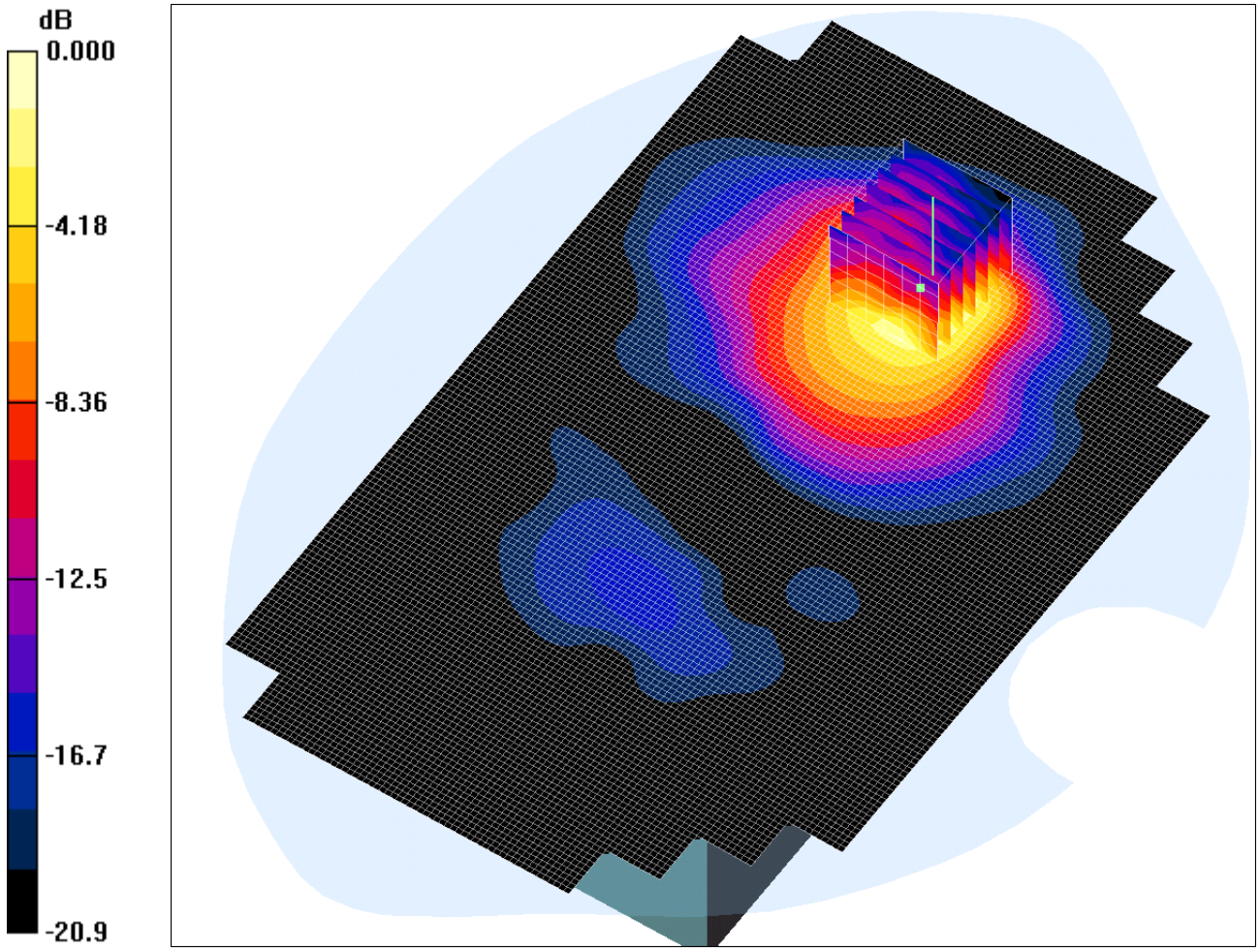
Date: 30/08/2006

48517_JD01_016

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_016_Rear_Of_EUT_Facing_Phantom_With_PHF_GPRS_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.561mW/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; σ = 1.57 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
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 With PHF - Middle/Area Scan (101x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.514 mW/g

Rear Of EUT Facing Phantom With PHF - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.75 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 0.561 mW/g

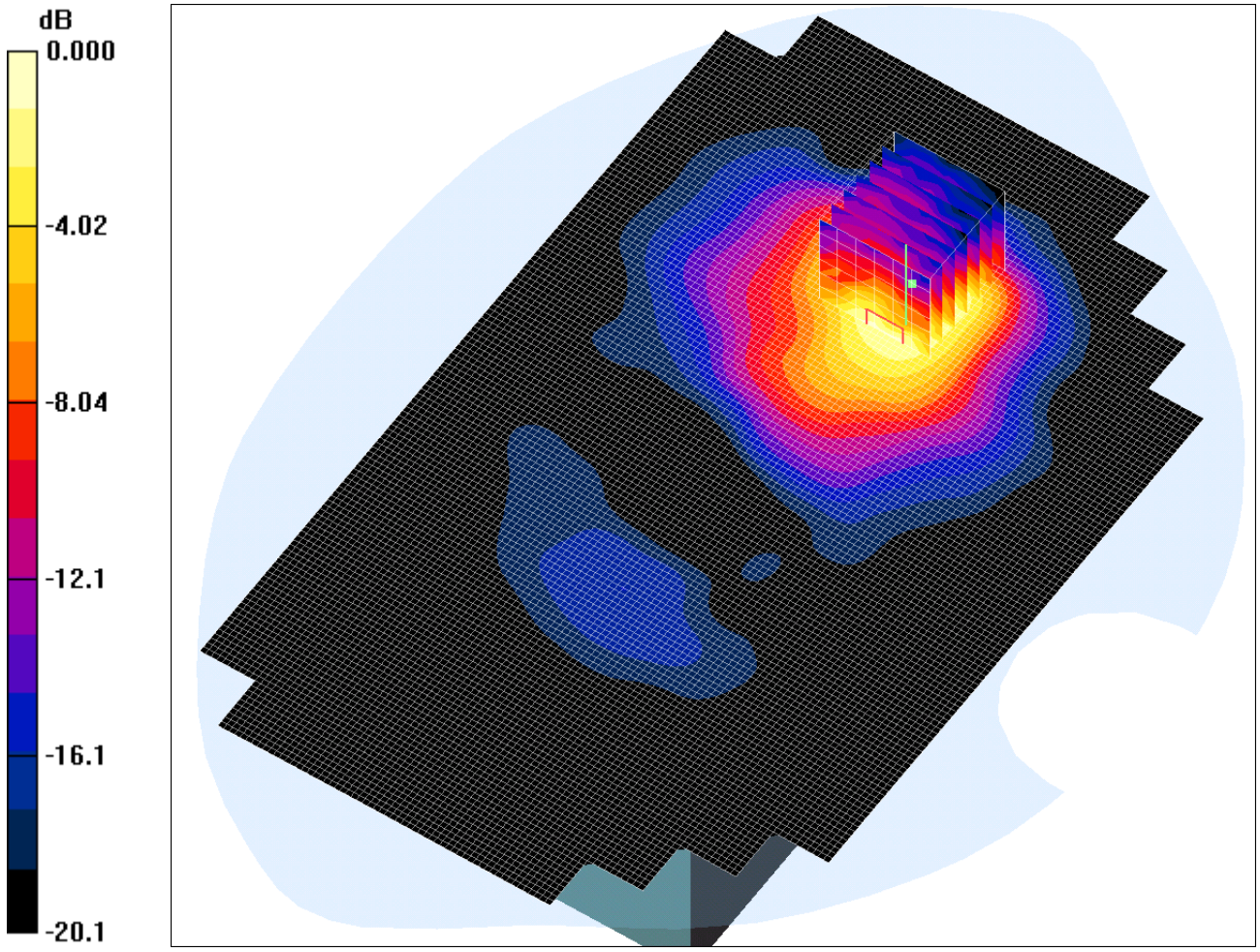
Date: 30/08/2006

48517_JD01_017

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_017_Rear_Of_EUT_Facing_Phantom_With_PHF_GPRS_CH512

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.503mW/g

Communication System: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.54 mho/m; ε_r = 51.9; ρ = 1000 kg/m^3
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 With PHF - Low/Area Scan (101x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.601 mW/g

Rear Of EUT Facing Phantom With PHF - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.79 V/m; Power Drift = -0.076 dB
Peak SAR (extrapolated) = 0.848 W/kg
SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.503 mW/g

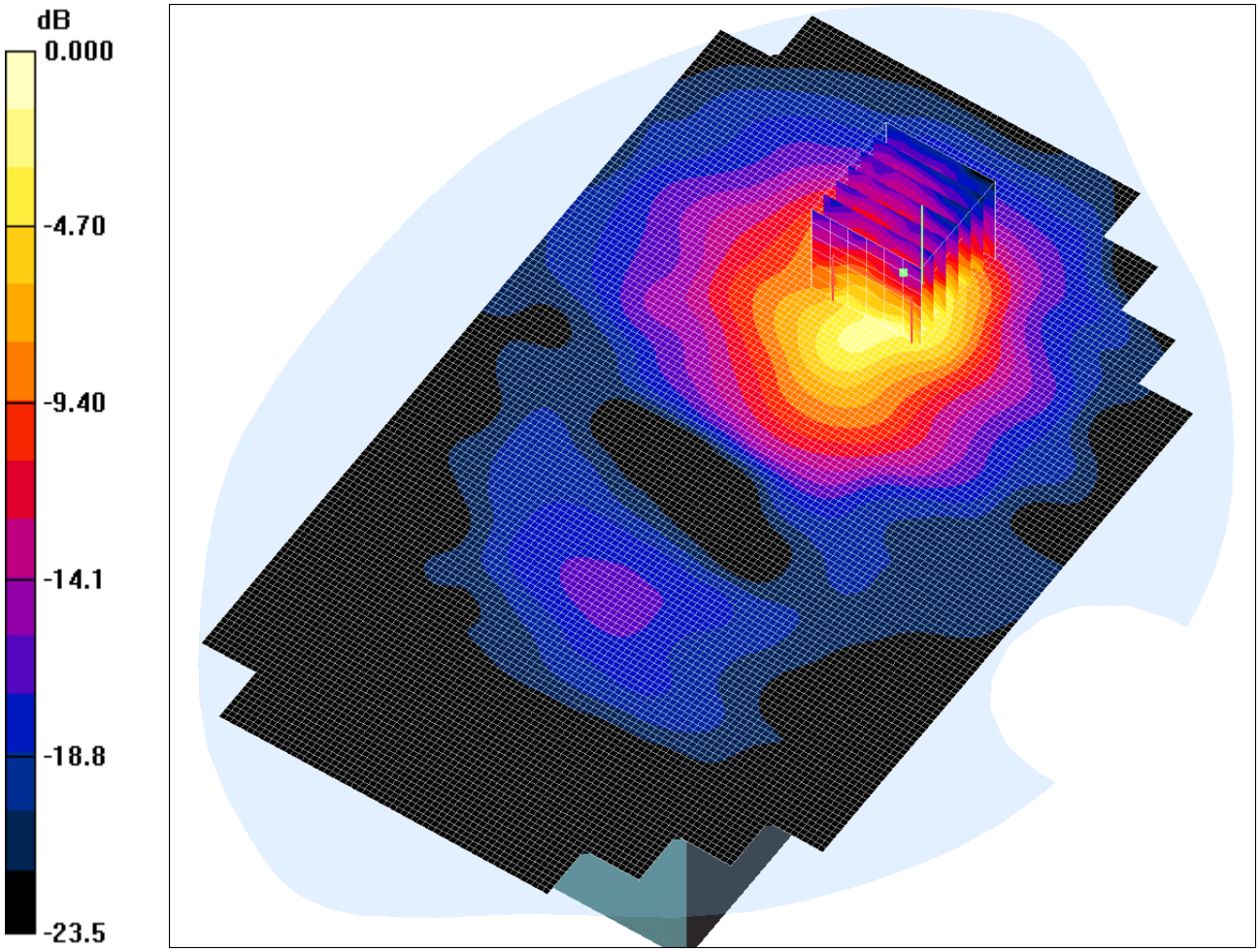
Date: 30/08/2006

48517_JD01_018

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_018_Rear_Of_EUT_Facing_Phantom_With_PHF_GPRS_CH810

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.505mW/g

Communication System: GPRS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1909.8 MHz; σ = 1.6 mho/m; ε_r = 51.7; ρ = 1000 kg/m^3
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 With PHF - High/Area Scan (101x161x1): Measurement grid: dx=15mm, dy=15mm

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

Rear Of EUT Facing Phantom With PHF - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.47 V/m; Power Drift = 0.219 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.505 mW/g

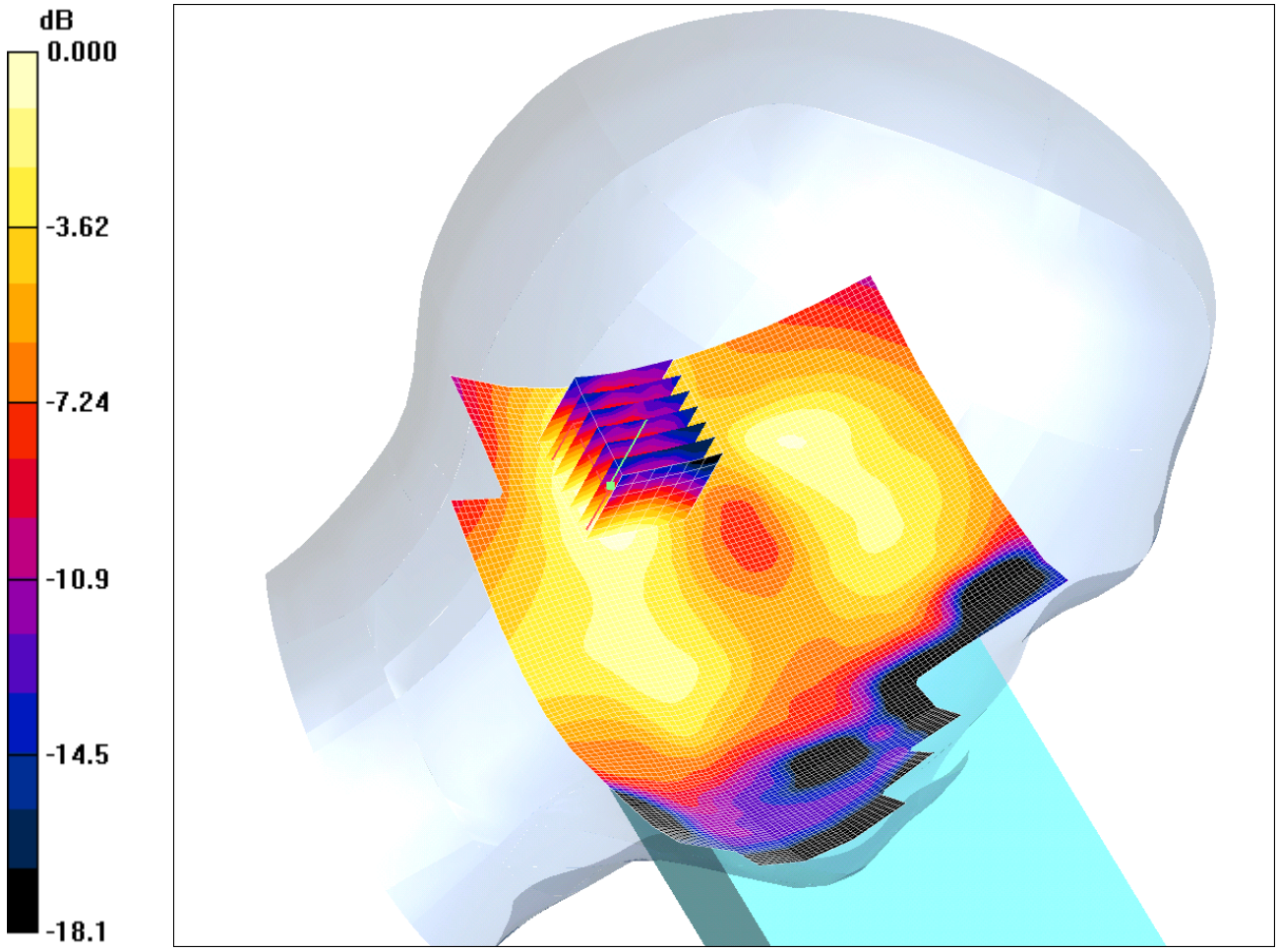
Date: 30/08/2006

48517_JD01_023

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_023_Touch_Left_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.024mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.42 mho/m; ε_r = 38.5; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1528; ConvF(5.03, 5.03, 5.03); Calibrated: 13/07/2005
- 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

Touch Left - Middle/Area Scan (91x181x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.024 mW/g

Touch Left - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.67 V/m; Power Drift = 0.131 dB
Peak SAR (extrapolated) = 0.032 W/kg
SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.024 mW/g

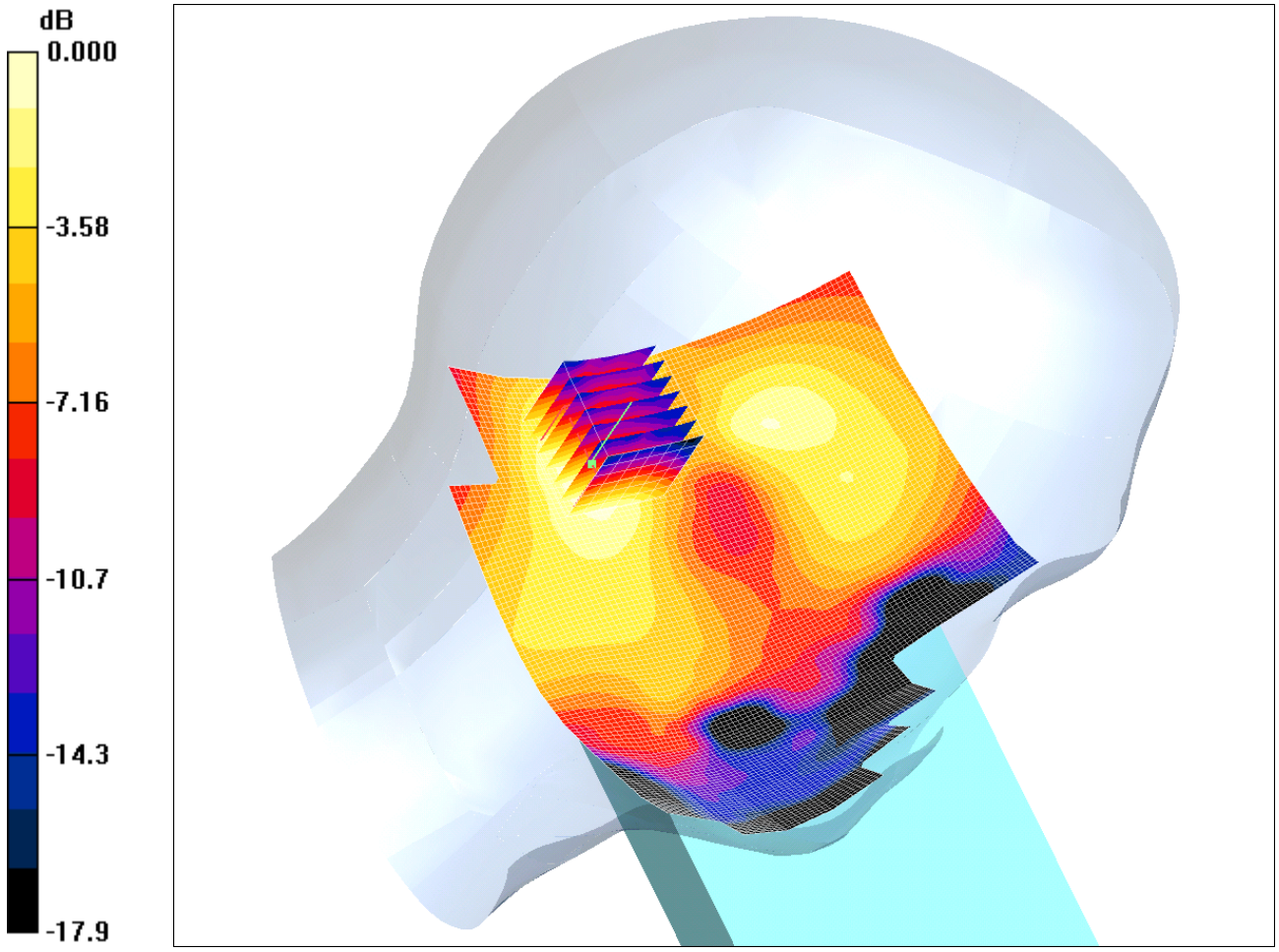
Date: 30/08/2006

48517_JD01_024

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_024_Tilt_Left_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.024mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.42 mho/m; ε_r = 38.5; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1528; ConvF(5.03, 5.03, 5.03); Calibrated: 13/07/2005
- 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

Tilt Left - Middle/Area Scan (91x181x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.025 mW/g

Tilt Left - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.46 V/m; Power Drift = -0.161 dB
Peak SAR (extrapolated) = 0.033 W/kg
SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.024 mW/g

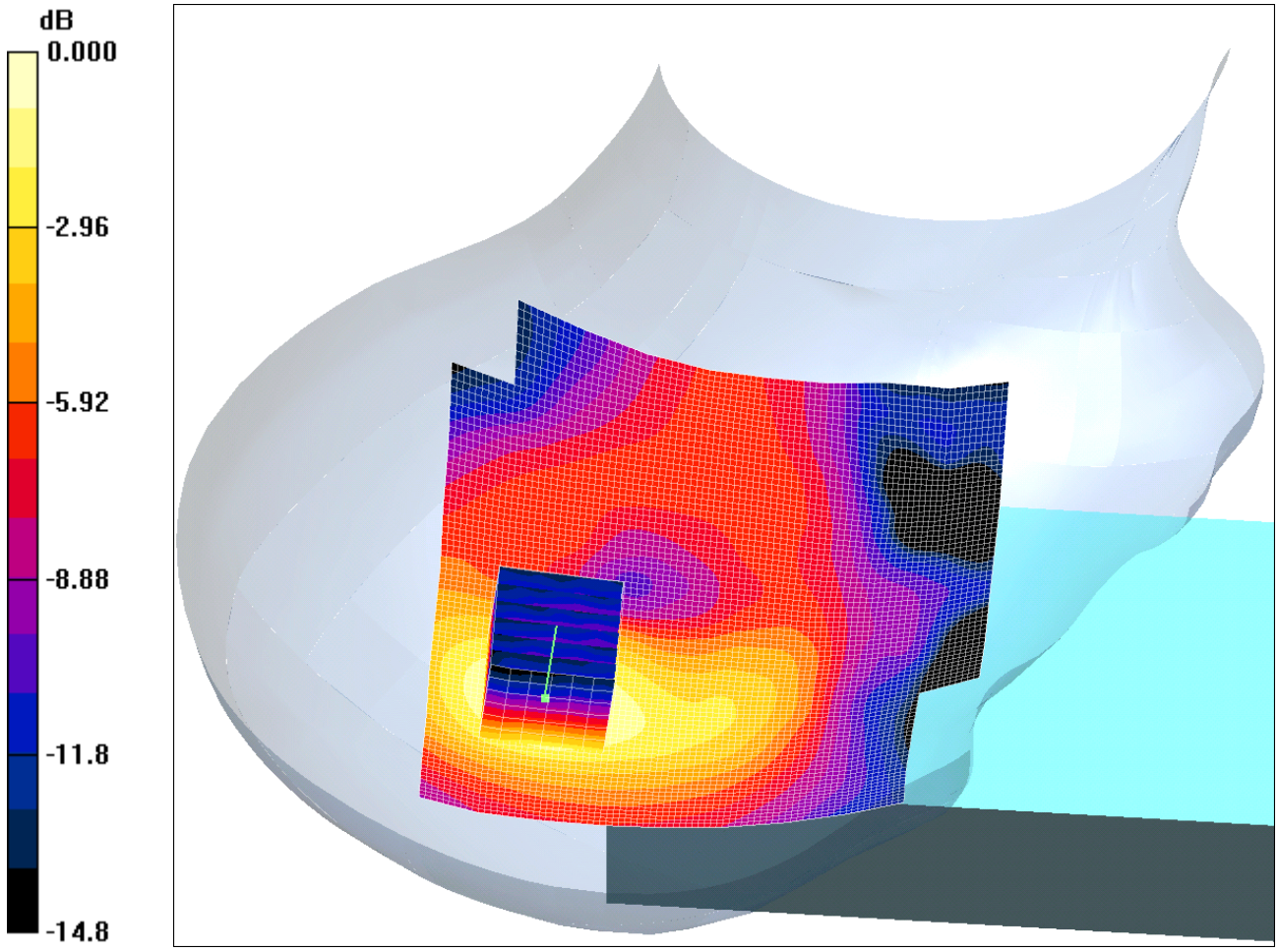
Date: 30/08/2006

48517_JD01_025

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_025_Touch_Right_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.037mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.42 mho/m; ε_r = 38.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1528; ConvF(5.03, 5.03, 5.03); Calibrated: 13/07/2005
- 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

Touch Right - Middle/Area Scan (91x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.037 mW/g

Touch Right - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.23 V/m; Power Drift = 0.048 dB
Peak SAR (extrapolated) = 0.053 W/kg
SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.037 mW/g

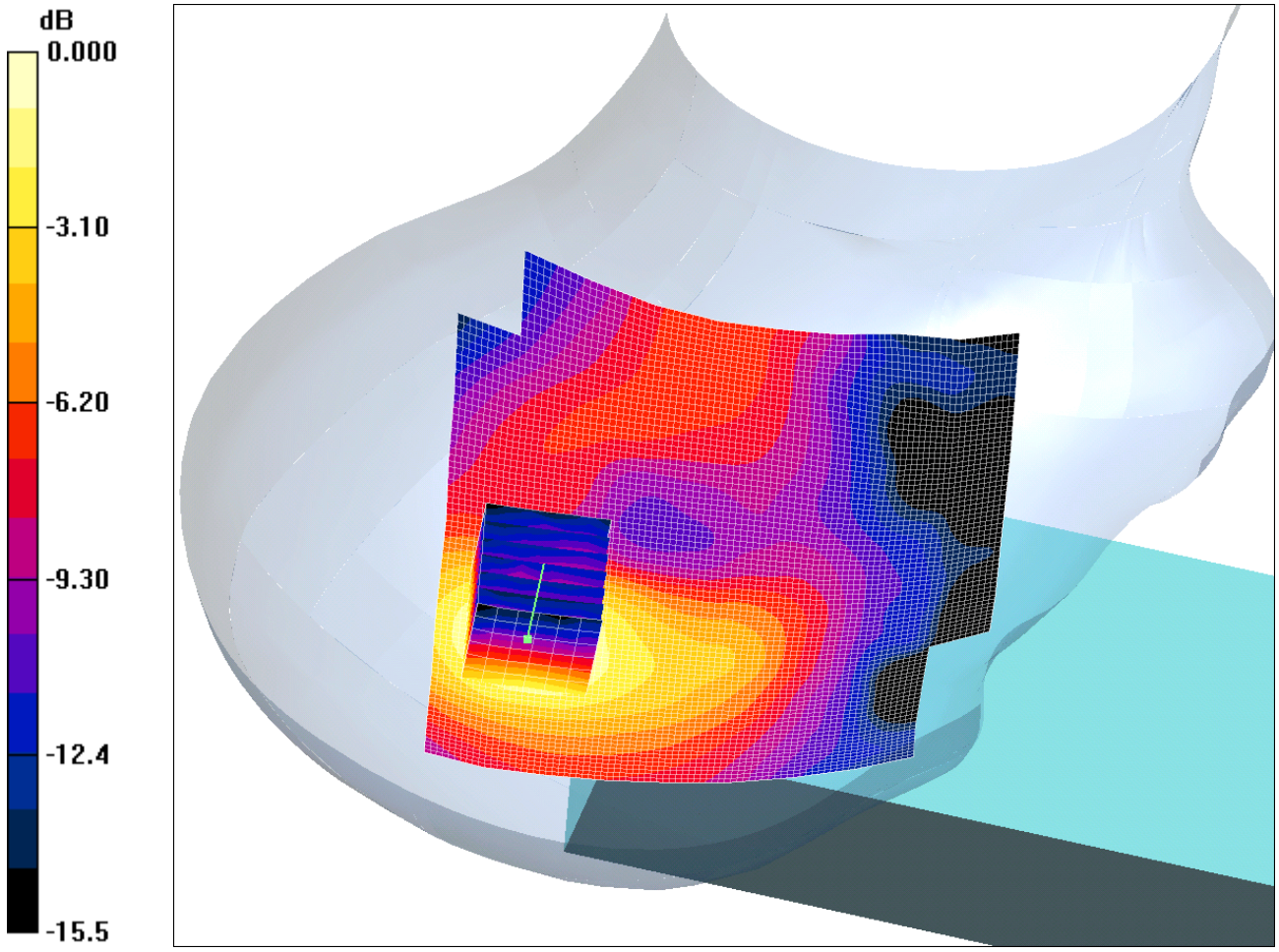
Date: 30/08/2006

48517_JD01_026

Test Laboratory: RFI GLOBAL SERVICES LTD.

48517_JD01_026_Tilt_Right_CH660

DUT: DATALOGIC; Type: DLBJET Module; IMEI: 352021004337630



0 dB = 0.042mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.42 mho/m; ε_r = 38.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1528; ConvF(5.03, 5.03, 5.03); Calibrated: 13/07/2005
- 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

Tilt Right - Middle/Area Scan (91x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.042 mW/g

Tilt Right - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.32 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 0.058 W/kg
SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.042 mW/g

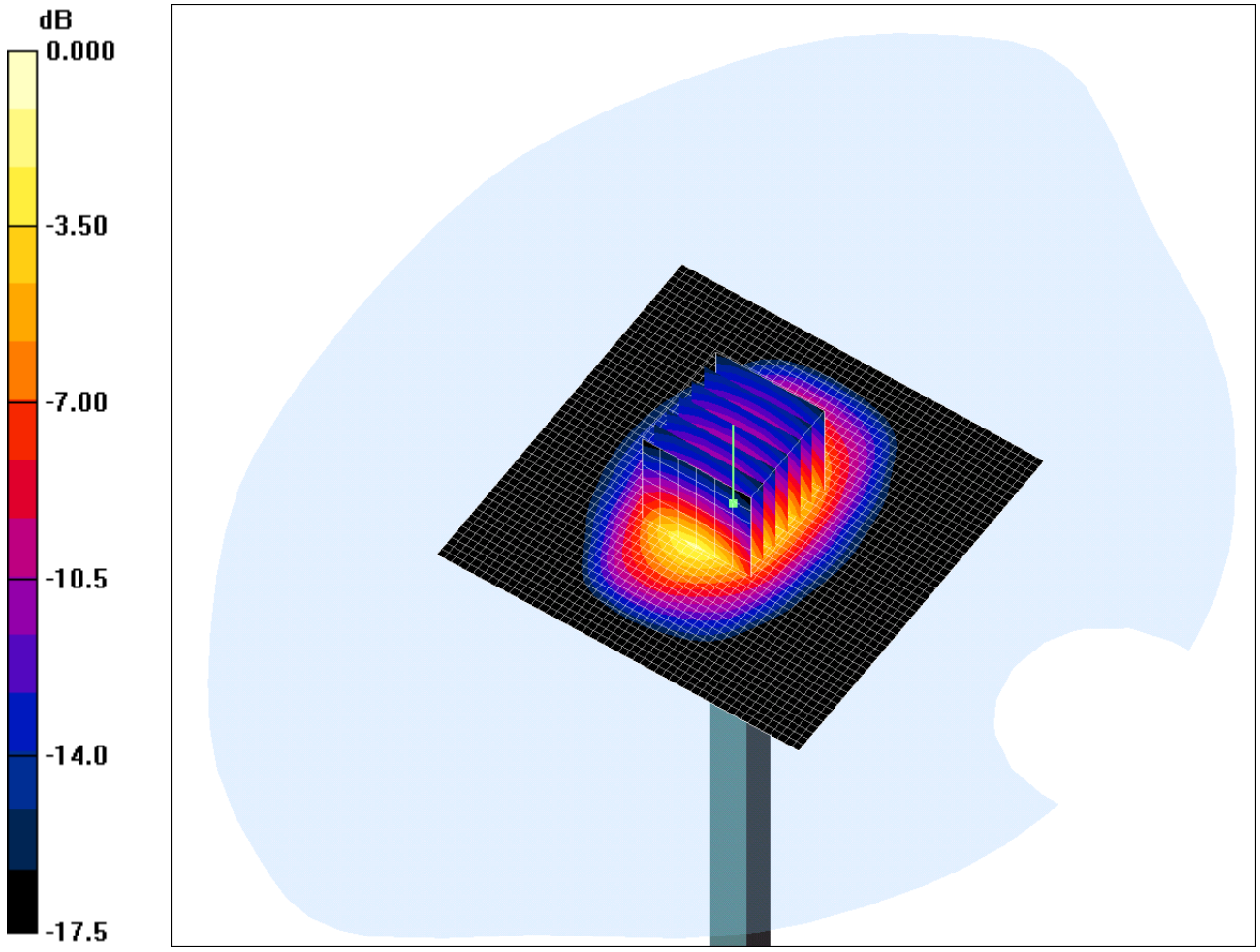
Date: 30/08/2006

48517_JD01_Validation_003

Test Laboratory: RFI GLOBAL SERVICES LTD.

System Performance Check-D1900 30 08 06

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 11.5mW/g

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: 1900 MHz MSL Medium parameters used: f = 1900 MHz; σ = 1.59 mho/m; ε_r = 51.7; ρ = 1000 kg/m^3
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) = 15.5 mW/g

d=15mm, Pin=250mW 2/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.6 V/m; Power Drift = -0.079 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.31 mW/g
Maximum value of SAR (measured) = 11.5 mW/g

Appendix 3. Test Configuration Photographs

This appendix contains the following photograph(s):

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

Test Of: Datalogic S.p.A.
DLBJET Module
To: OET Bulletin 65 Supplement C: (2001-01)

PHT/SAR Configuration