

Test Of: Pro Tech Monitoring Inc.
Smart Active Tracker
To: OET Bulletin 65 Supplement C: (2001-01)

Appendix 2. SAR Distribution Scans

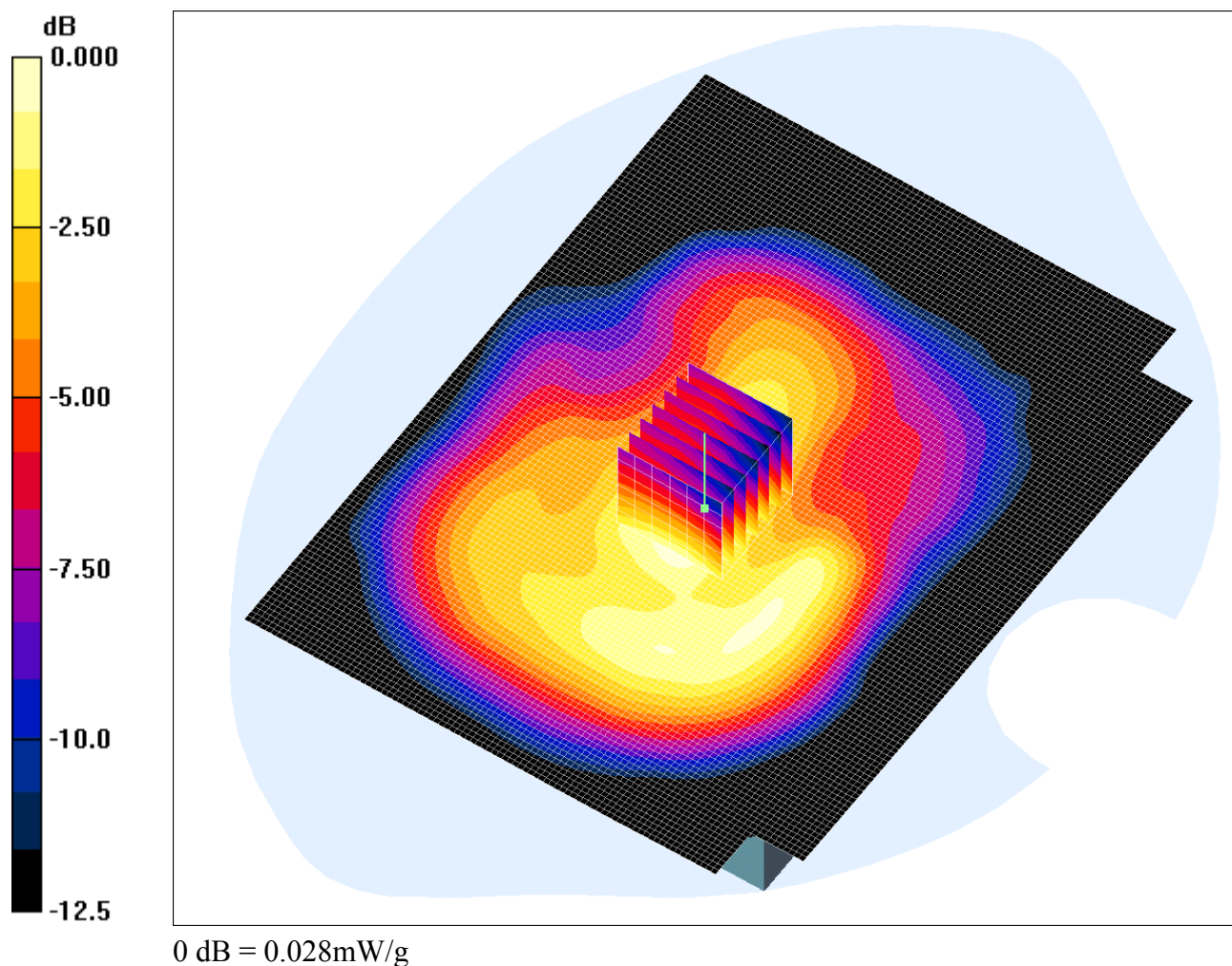
This appendix contains SAR distribution scans.

Scan Reference Number	Title
SCN/72155/001	72155 JD04 001 Display Of EUT Facing Phantom At 0mm GPRS CH189
SCN/72155/002	72155 JD04 002 Rear Of EUT Facing Phantom At 0mm GPRS CH189
SCN/72155/003	72155 JD04 003 Display Of EUT Facing Phantom At 0mm GSM CH189
SCN/72155/004	72155 JD04 004 Rear Of EUT Facing Phantom At 0mm GSM CH189
SCN/72155/005	72155 JD04 005 Display Of EUT Facing Phantom At 0mm GPRS CH660
SCN/72155/006	72155 JD04 006 Rear Of EUT Facing Phantom At 0mm GPRS CH660
SCN/72155/007	72155 JD04 007 Display Of EUT Facing Phantom At 15mm GSM CH660
SCN/72155/008	72155 JD04 008 Rear Of EUT Facing Phantom At 15mm GSM CH660
SCN/72155/Validation 001	System Performance Check 31 08 06
SCN/72155/Validation 002	System Performance Check-D1900 31 08 06

Date: 31/08/2006

72155_JD04_001

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_001_Display_Of_EUT_Facing_Phantom_At_0mm_GPRS_CH189**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\sigma = 0.943$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Display Of EUT Facing Phantom At 0 mm - Middle/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.030 mW/g

Display Of EUT Facing Phantom At 0 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

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

Reference Value = 5.41 V/m; Power Drift = -0.325 dB

Peak SAR (extrapolated) = 0.037 W/kg

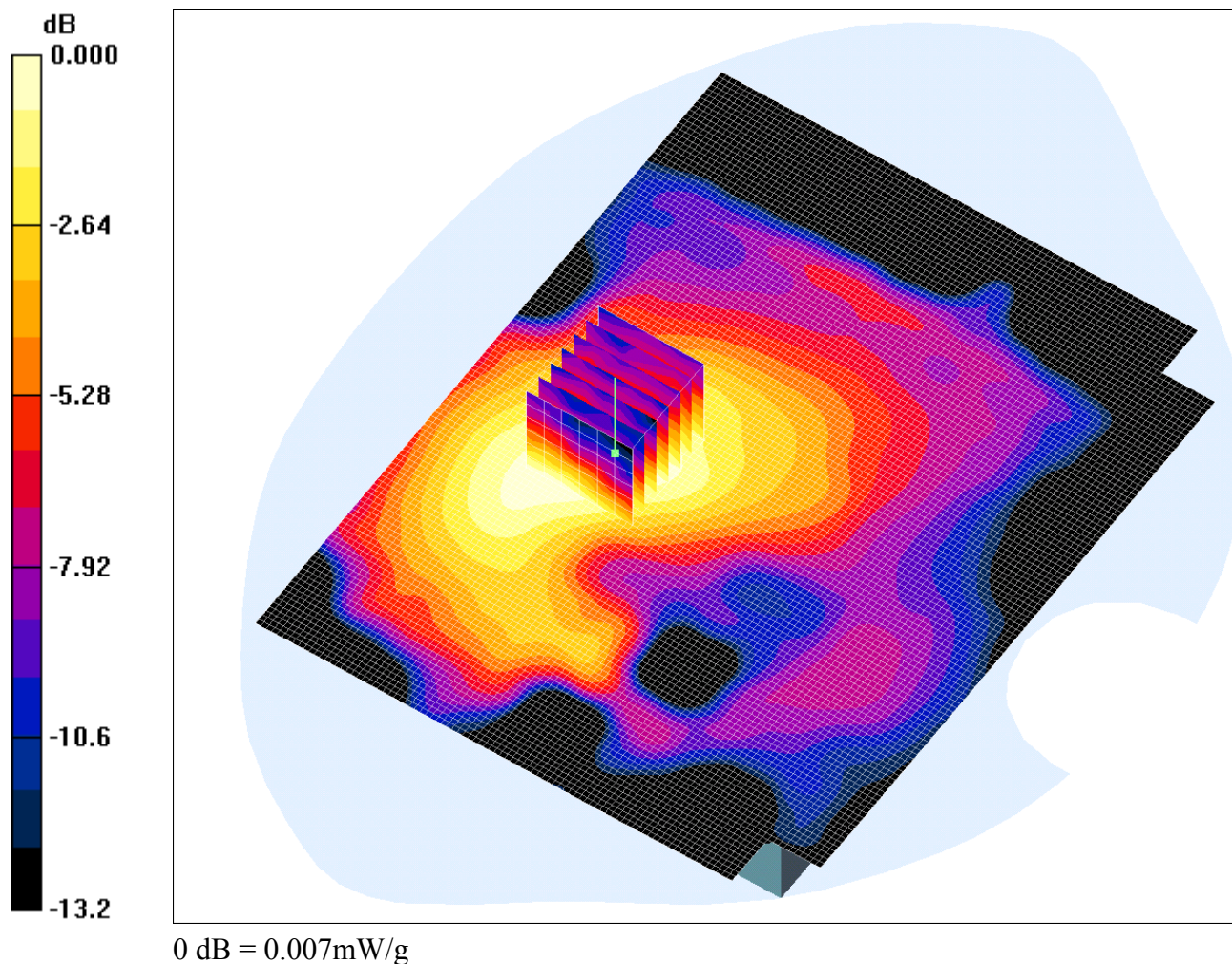
SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.028 mW/g

Date: 31/08/2006

72155_JD04_002

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_002_Rear_Of_EUT_Facing_Phantom_At_0mm_GPRS_CH189**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\sigma = 0.943$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Display Of EUT Facing Phantom At 0 mm - Middle/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.007 mW/g

Display Of EUT Facing Phantom At 0 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

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

Reference Value = 1.94 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.009 W/kg

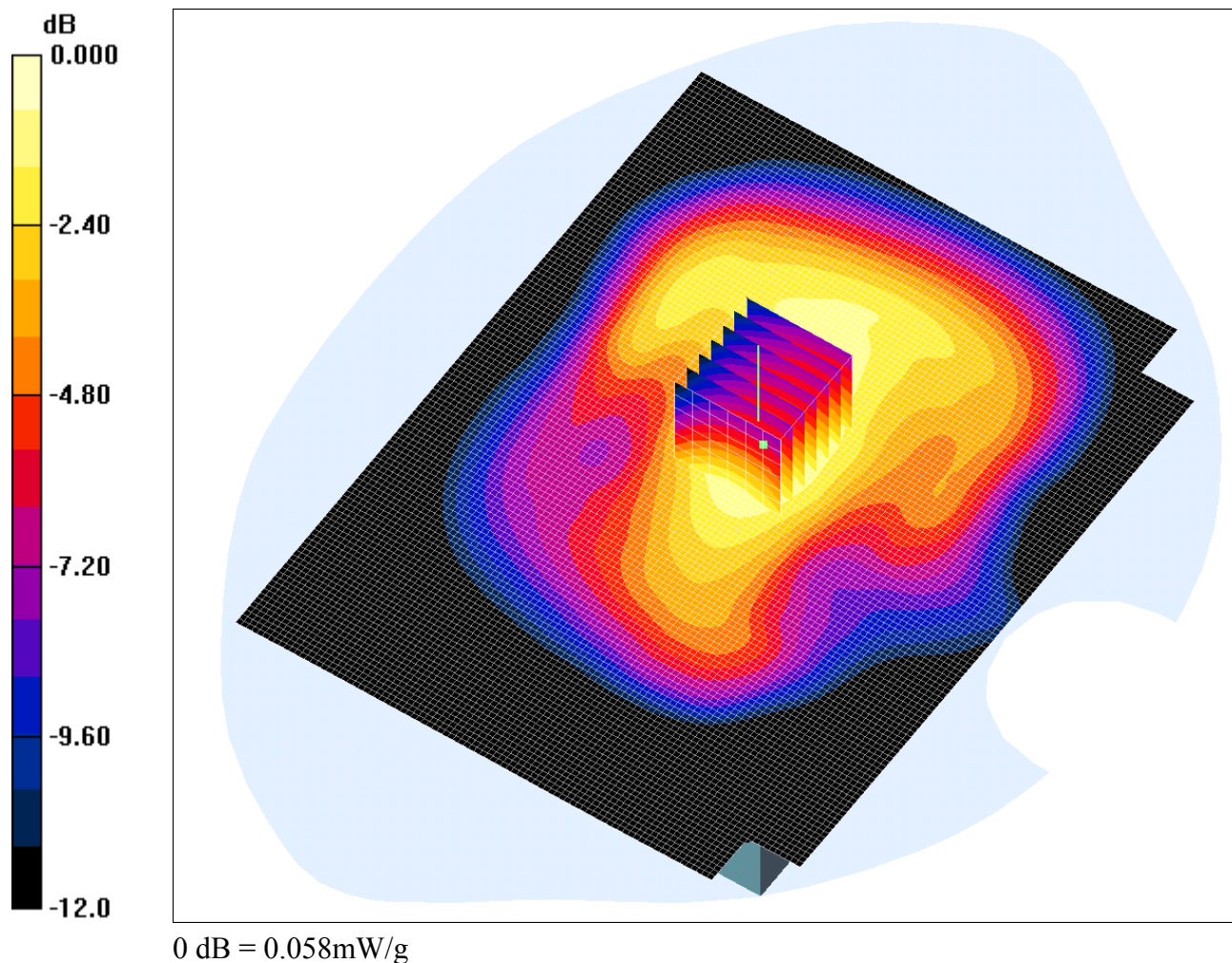
SAR(1 g) = 0.00657 mW/g; SAR(10 g) = 0.00448 mW/g

Maximum value of SAR (measured) = 0.007 mW/g

Date: 31/08/2006

72155_JD04_003

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_003_Display_Of_EUT_Facing_Phantom_At_0mm_GSM_CH189**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\sigma = 0.943$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Display Of EUT Facing Phantom At 0 mm - Middle/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.058 mW/g

Display Of EUT Facing Phantom At 0 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

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

Reference Value = 7.53 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.072 W/kg

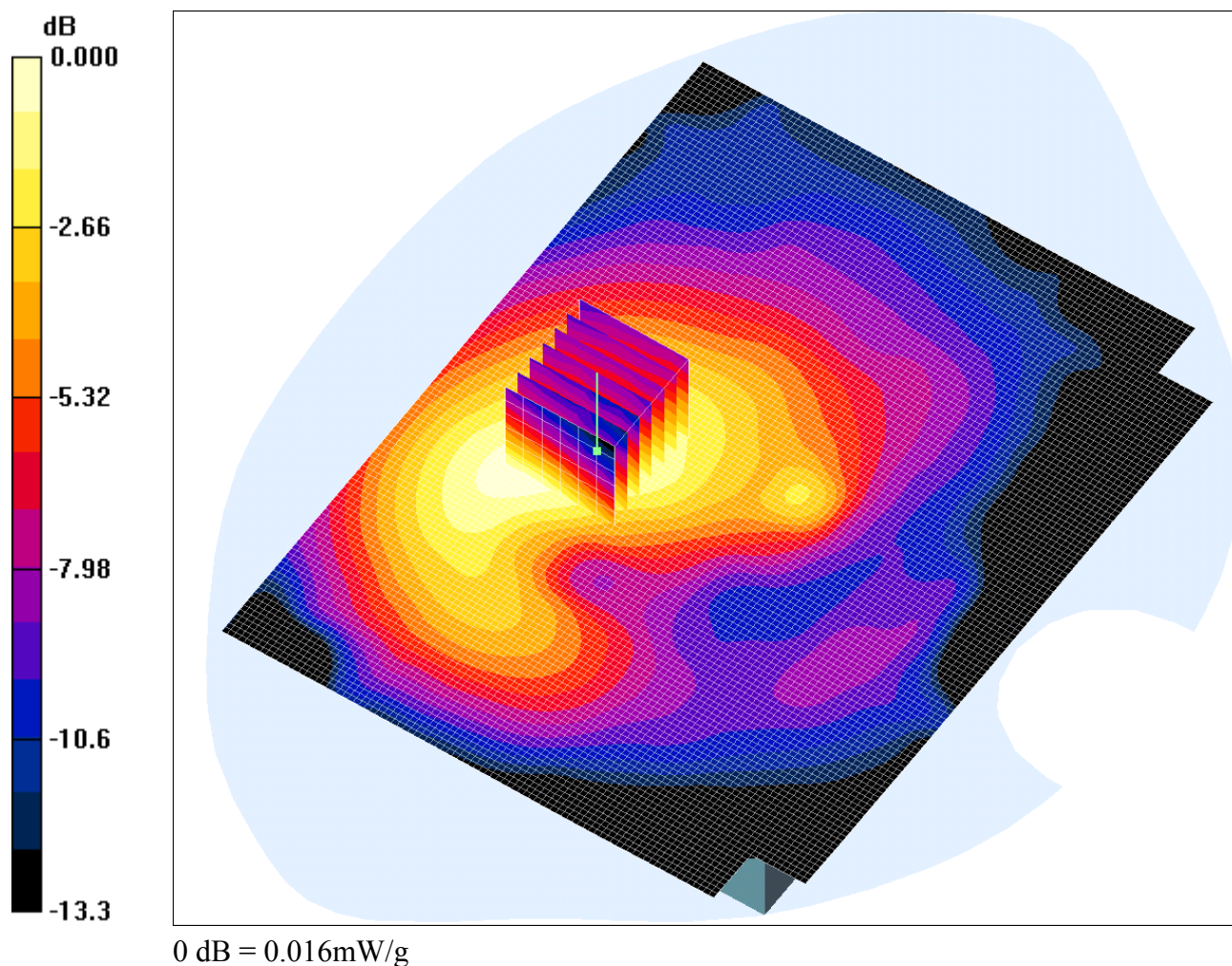
SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.058 mW/g

Date: 31/08/2006

72155_JD04_004

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_004_Rear_Of_EUT_Facing_Phantom_At_0mm_GSM_CH189**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\sigma = 0.943$ mho/m; $\epsilon_r = 54$; $\rho = 1000$ 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 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Rear Of EUT Facing Phantom At 0 mm - Middle/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.016 mW/g

Rear Of EUT Facing Phantom At 0 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

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

Reference Value = 2.88 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.021 W/kg

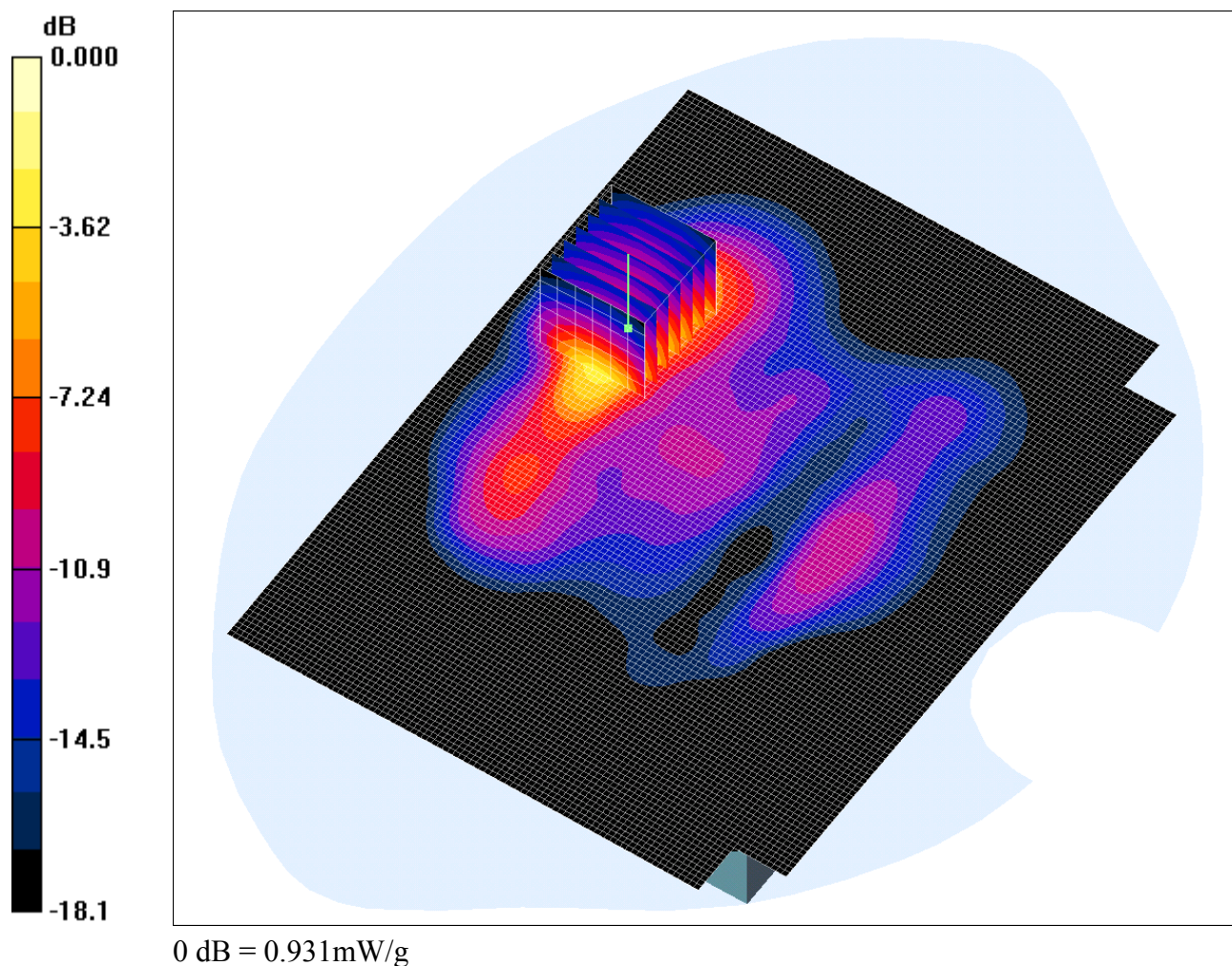
SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00994 mW/g

Maximum value of SAR (measured) = 0.016 mW/g

Date: 31/08/2006

72155_JD04_005

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_005_Display_Of_EUT_Facing_Phantom_At_0mm_GPRS_CH660**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\epsilon_r =$ 52.1; $\rho = 1000$ 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 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 0 mm - Middle/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.949 mW/g

Display Of EUT Facing Phantom At 0 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

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

Reference Value = 6.73 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 1.36 W/kg

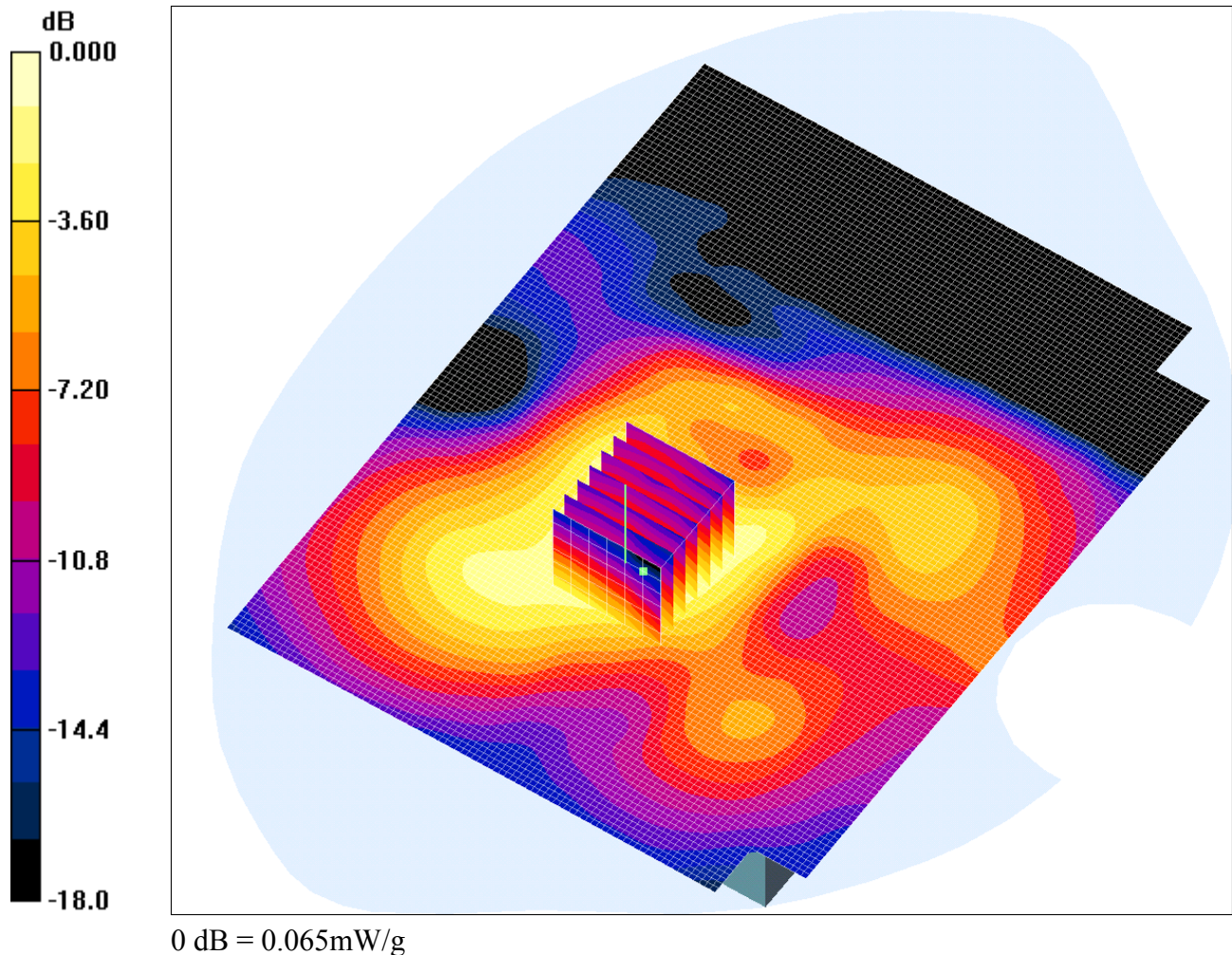
SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 0.931 mW/g

Date: 31/08/2006

72155_JD04_006

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_006_Rear_Of_EUT_Facing_Phantom_At_0mm_GPRS_CH660**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\epsilon_r = 52.1$; $\rho = 1000$ 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 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 0 mm - Middle/Area Scan (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.060 mW/g

Rear Of EUT Facing Phantom At 0 mm - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

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

Reference Value = 3.72 V/m; Power Drift = -0.276 dB

Peak SAR (extrapolated) = 0.091 W/kg

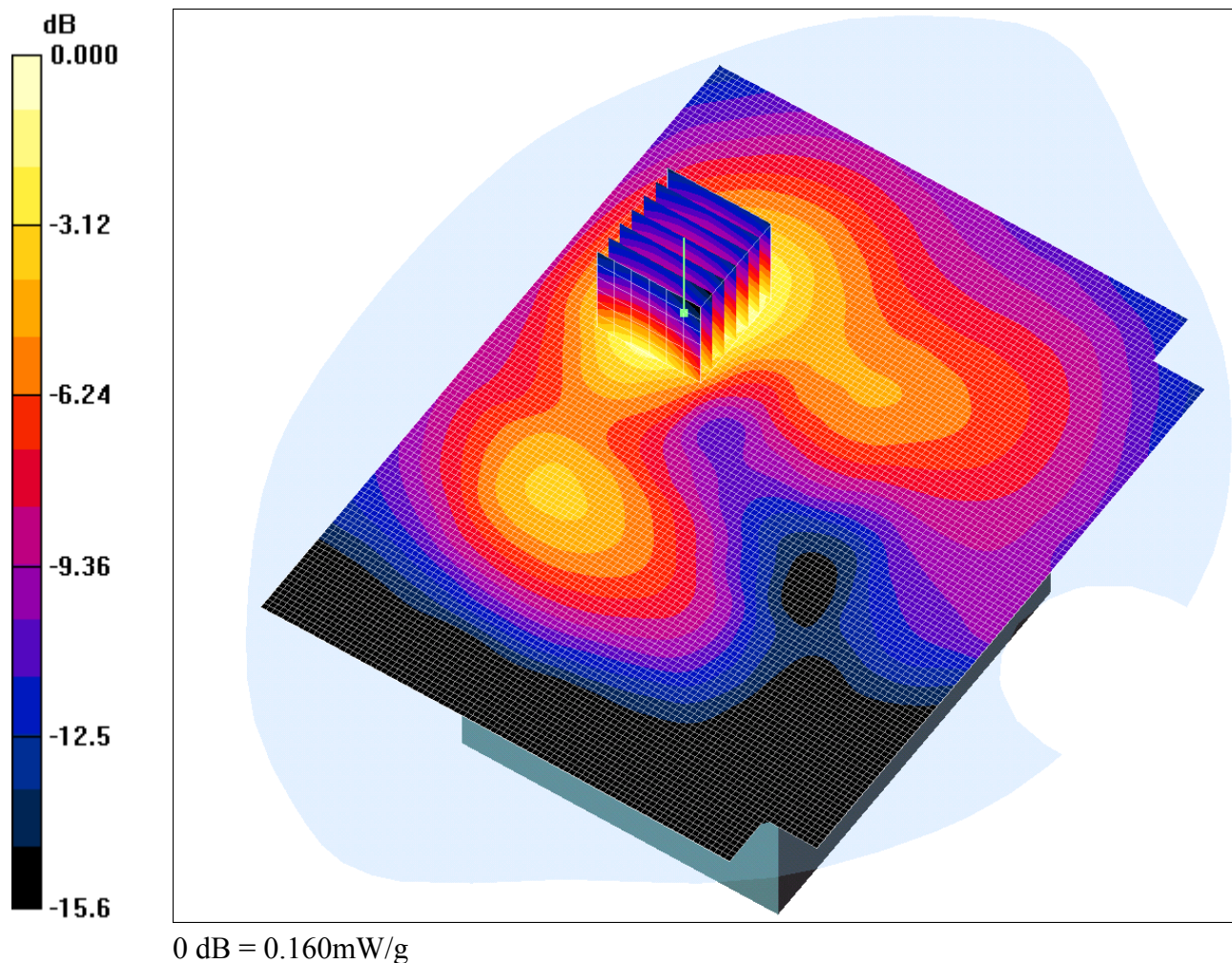
SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.065 mW/g

Date: 31/08/2006

72155_JD04_007

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_007_Display_Of_EUT_Facing_Phantom_At_15mm_GSM_CH660**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\epsilon_r =$ 52.1; $\rho = 1000$ 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 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 (101x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.160 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 = 3.17 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.230 W/kg

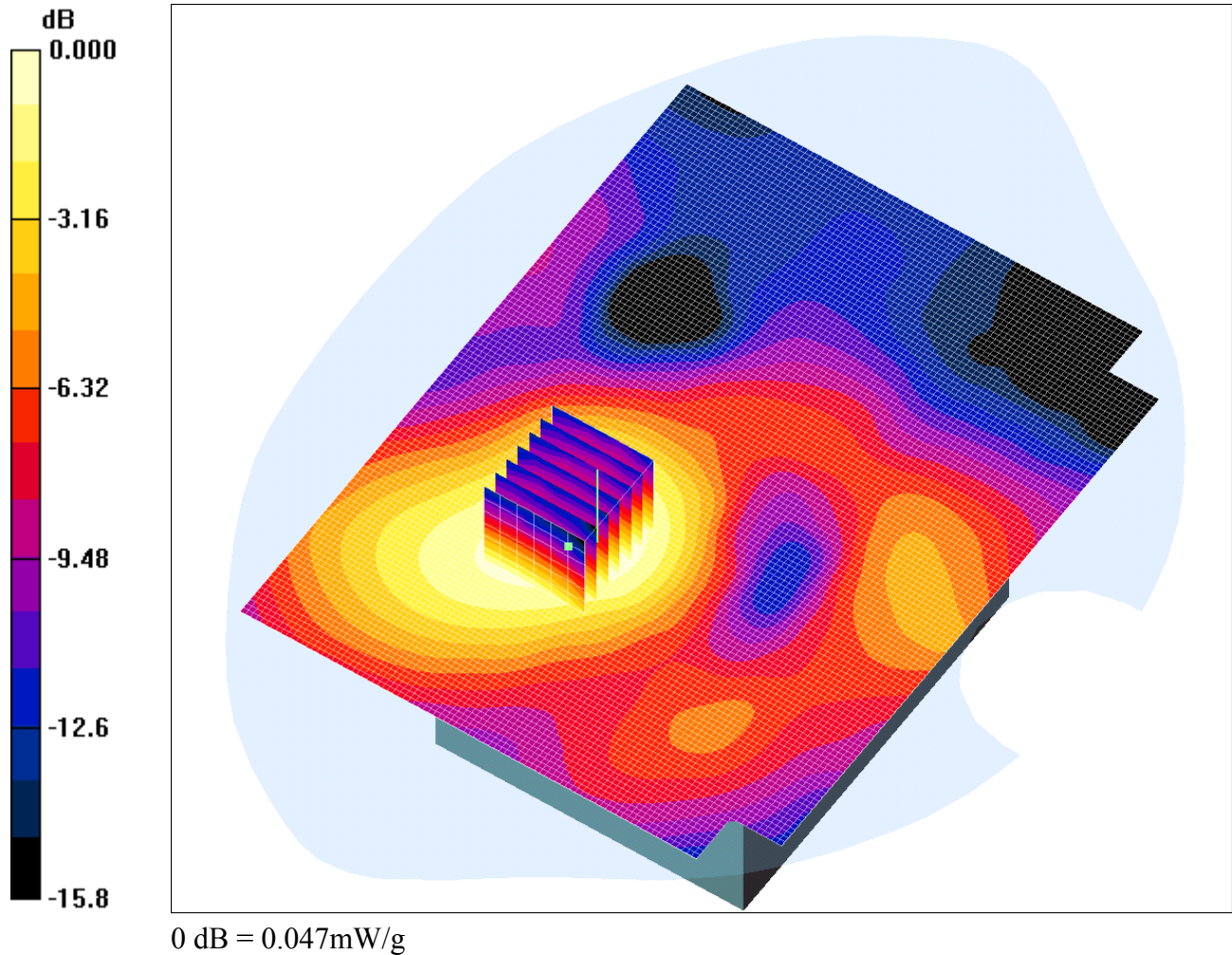
SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.087 mW/g

Maximum value of SAR (measured) = 0.160 mW/g

Date: 31/08/2006

72155_JD04_008

Test Laboratory: RFI GLOBAL SERVICES LTD.

72155_JD04_008_Rear_Of_EUT_Facing_Phantom_At_15mm_GSM_CH660**DUT: Pro Tech Monitoring Inc; Type: Smart Active Tracker; IMEI: 357647000459700**

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; $\epsilon_r =$ 52.1; $\rho = 1000$ 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 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 (101x131x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.048 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 = 2.82 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.066 W/kg

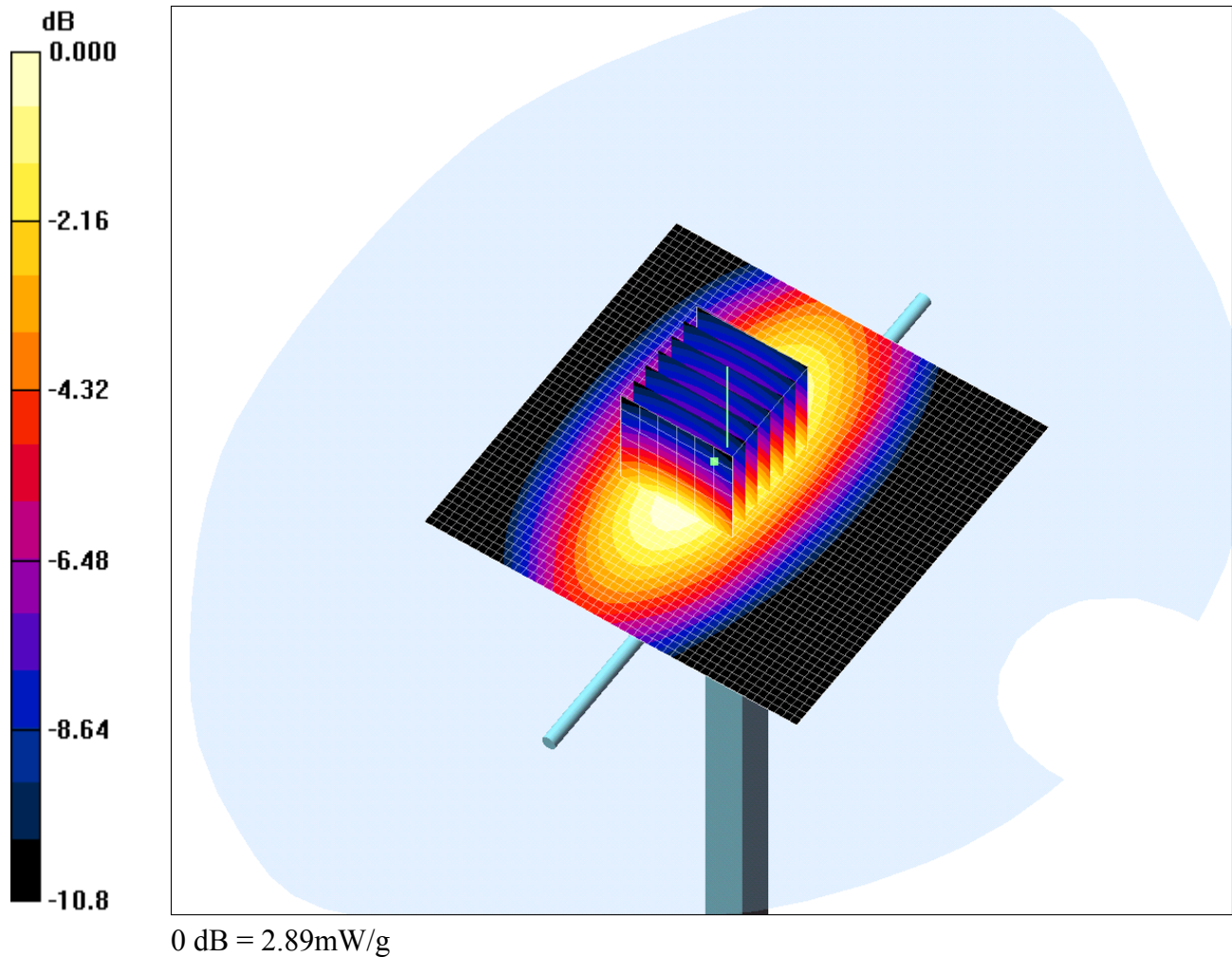
SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.028 mW/g

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

Date: 31/08/2006

72155_JD04_Validation_001

Test Laboratory: RFI GLOBAL SERVICES LTD.

System Performance Check_31_08_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: $f = 900 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

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) = 3.09 mW/g

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

Reference Value = 54.1 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 3.90 W/kg

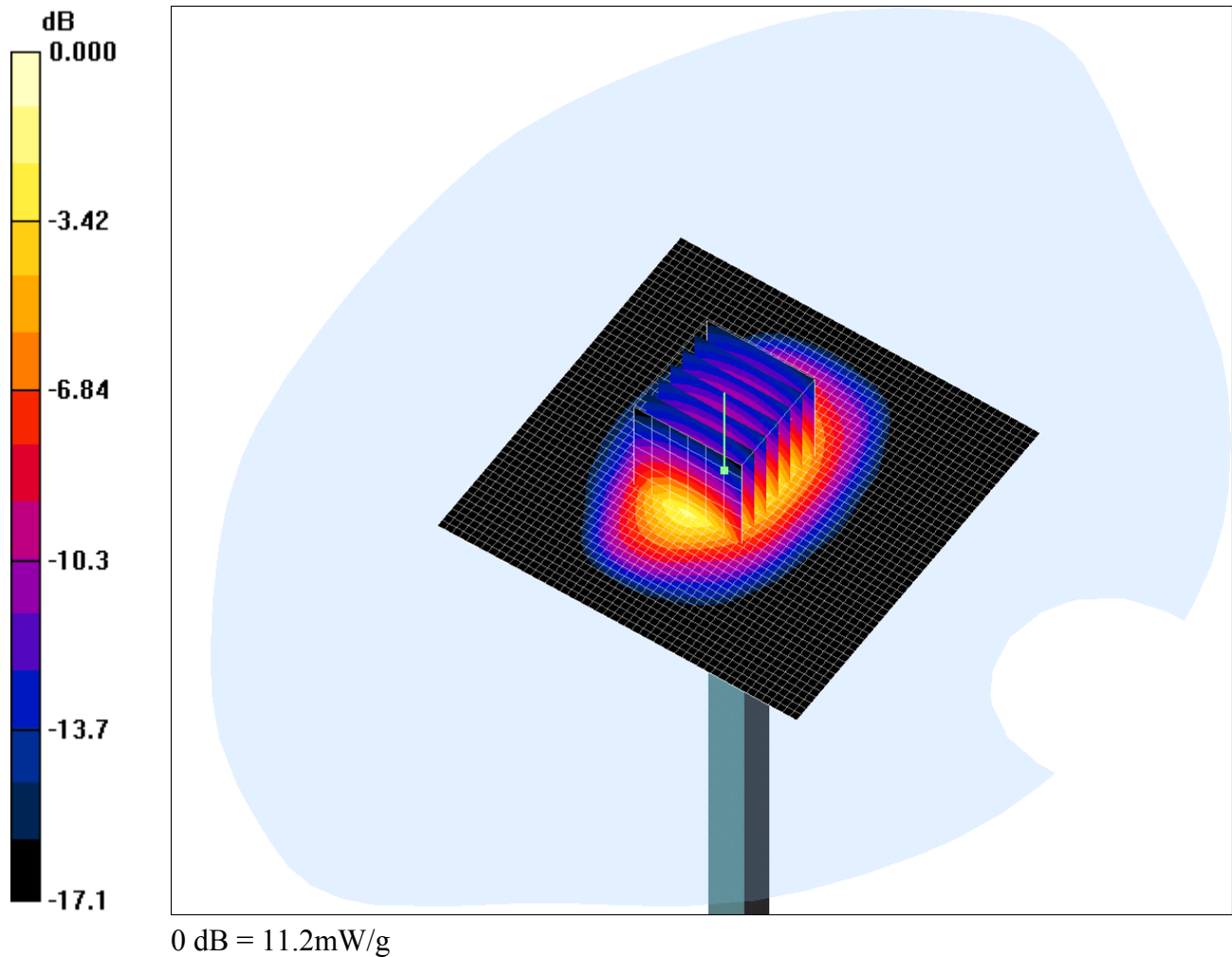
SAR(1 g) = 2.66 mW/g; SAR(10 g) = 1.72 mW/g

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

Date: 31/08/2006

72155_JD04_Validation_002

Test Laboratory: RFI GLOBAL SERVICES LTD.

System Performance Check-D1900 31 08 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; $\sigma = 1.6$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ 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 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) = 14.6 mW/g

d=15mm, Pin=250mW 2/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 87.6 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 9.98 mW/g; SAR(10 g) = 5.3 mW/g
Maximum value of SAR (measured) = 11.2 mW/g

Test Of: Pro Tech Monitoring Inc.
Smart Active Tracker
To: OET Bulletin 65 Supplement C: (2001-01)

Appendix 3. Test Configuration Photograph

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: Pro Tech Monitoring Inc.
Smart Active Tracker
To: OET Bulletin 65 Supplement C: (2001-01)

PHT/SAR Configuration

