

Test of: GE Security
ActiveKey

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/72510JD03/001	Front of EUT Facing Phantom CH189
SCN/72510JD03/002	Rear of EUT Facing Phantom CH189
SCN/72510JD03/003	Front of EUT Facing Phantom CH660
SCN/72510JD03/004	Rear of EUT Facing Phantom CH660 15mm
SCN/72510JD03/005	System Performance Check 900MHz Body 26 07 07
SCN/72510JD03/006	System Performance Check 1900MHz Body 26 07 07

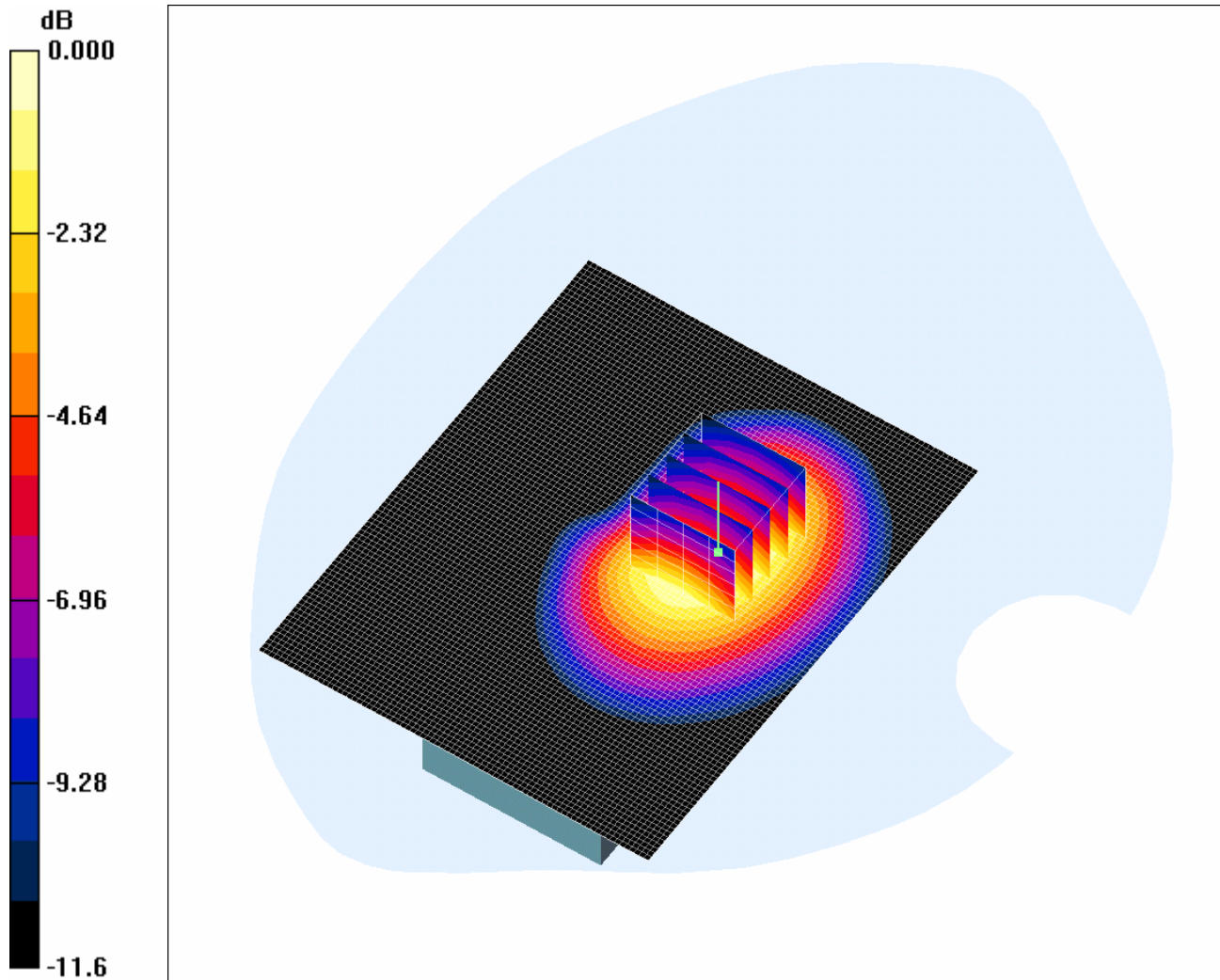
Test of: **GE Security
ActiveKey**

To: **OET Bulletin 65 Supplement C:2001-01**

001 Front of EUT Facing Phantom CH 189

Date: 26/07/2007

DUT: GE Security; Type: ActiveKey; Serial: Test Sample S/N 1



0 dB = 0.195mW/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; $\sigma = 0.996$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(6.16, 6.16, 6.16); Calibrated: 30/08/2006

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

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

- 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 15mm - Middle/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.204 mW/g

Front of EUT Facing Phantom 15mm - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.195 mW/g

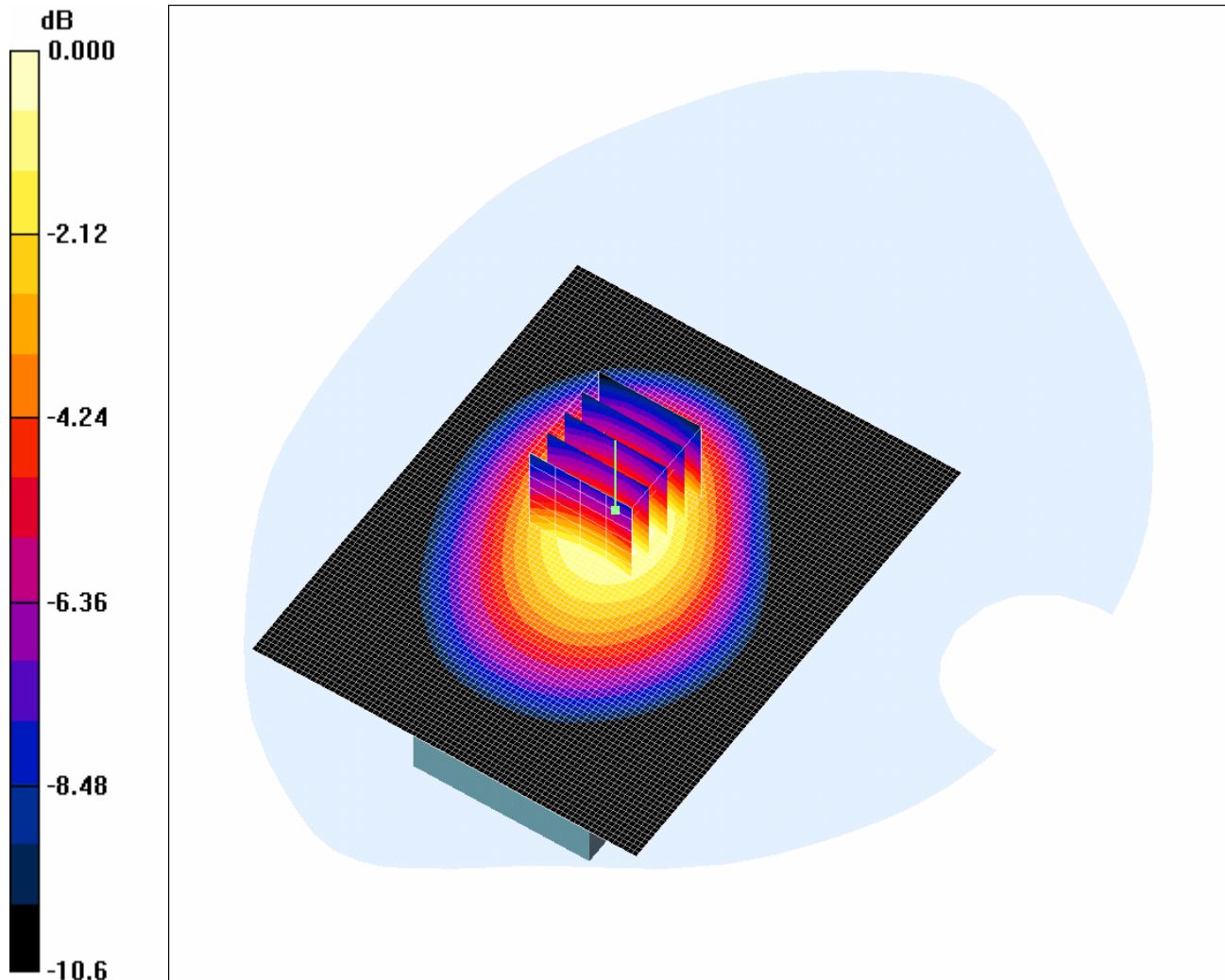
Test of: GE Security
ActiveKey

To: OET Bulletin 65 Supplement C:2001-01

002 Rear of EUT Facing Phantom CH 189

Date: 26/07/2007

DUT: GE Security; Type: ActiveKey; Serial: Test Sample S/N 1



0 dB = 0.118mW/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; $\sigma = 0.996$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(6.16, 6.16, 6.16); Calibrated: 30/08/2006

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

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

- 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 15mm - Middle/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.119 mW/g

Rear of EUT Facing Phantom 15mm - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.94 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.118 mW/g

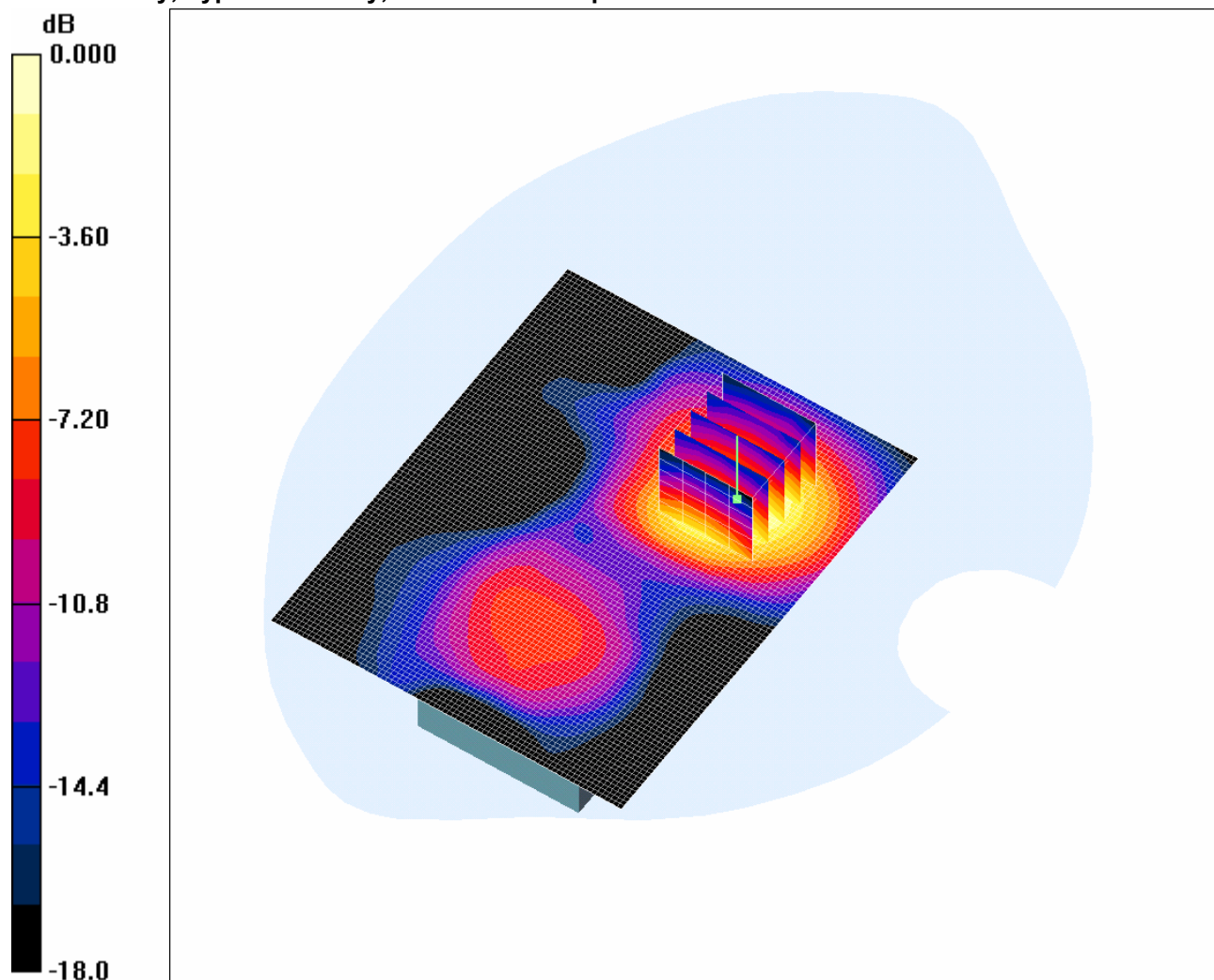
Test of: GE Security
ActiveKey

To: OET Bulletin 65 Supplement C:2001-01

003 Front of EUT Facing Phantom CH 660

Date: 26/07/2007

DUT: GE Security; Type: ActiveKey; Serial: Test Sample S/N 1



0 dB = 0.052mW/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; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.44, 4.44, 4.44); Calibrated: 30/08/2006

- 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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom 15mm - Middle/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

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

Front of EUT Facing Phantom 15mm - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.34 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.027 mW/g

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

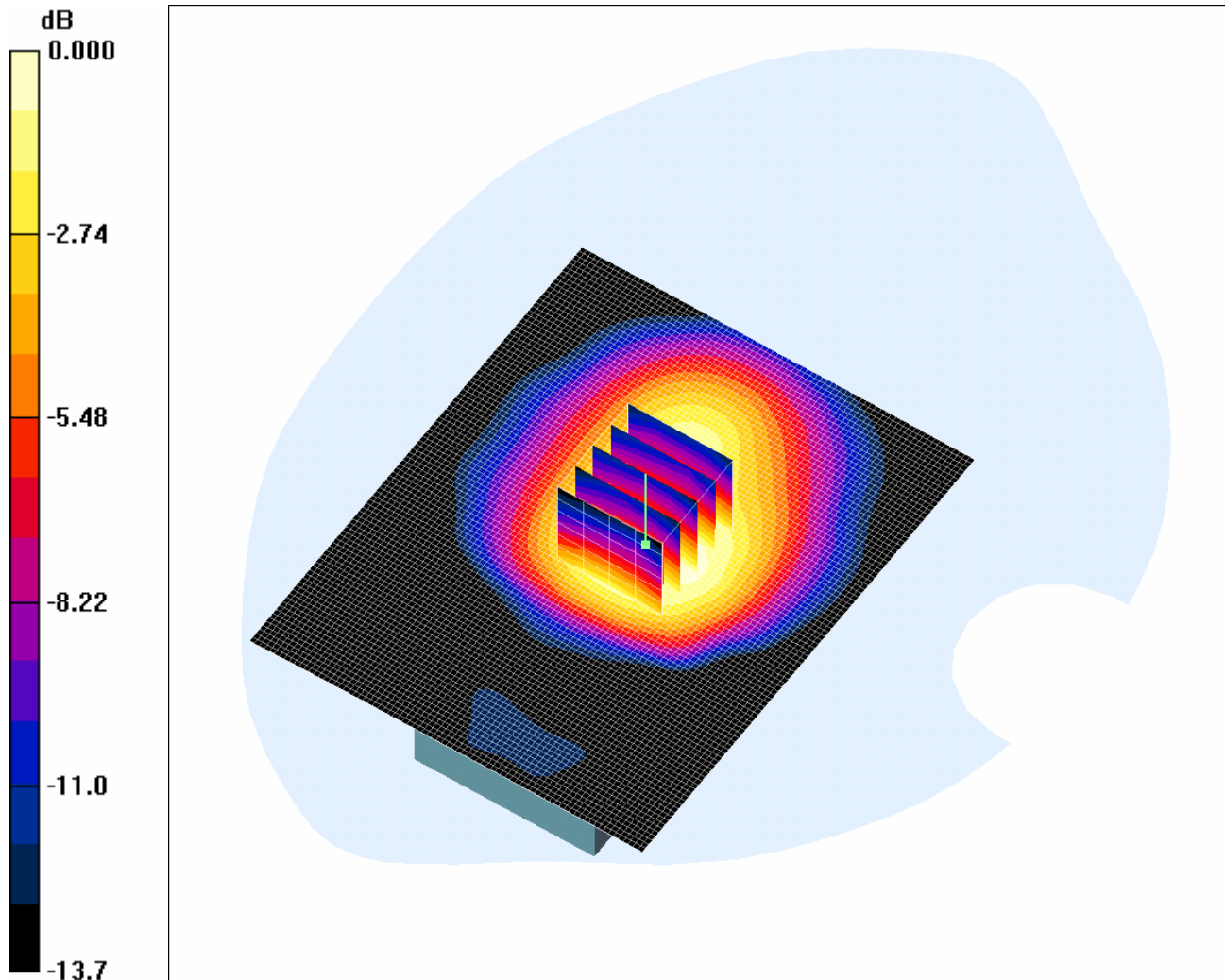
Test of: GE Security
ActiveKey

To: OET Bulletin 65 Supplement C:2001-01

004 Rear of EUT Facing Phantom CH 660

Date: 26/07/2007

DUT: GE Security; Type: ActiveKey; Serial: Test Sample S/N 1



0 dB = 0.034mW/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; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.44, 4.44, 4.44); Calibrated: 30/08/2006

- 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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Front of EUT Facing Phantom 15mm - Middle/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.035 mW/g

Front of EUT Facing Phantom 15mm - Middle/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.02 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.045 W/kg

SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.034 mW/g

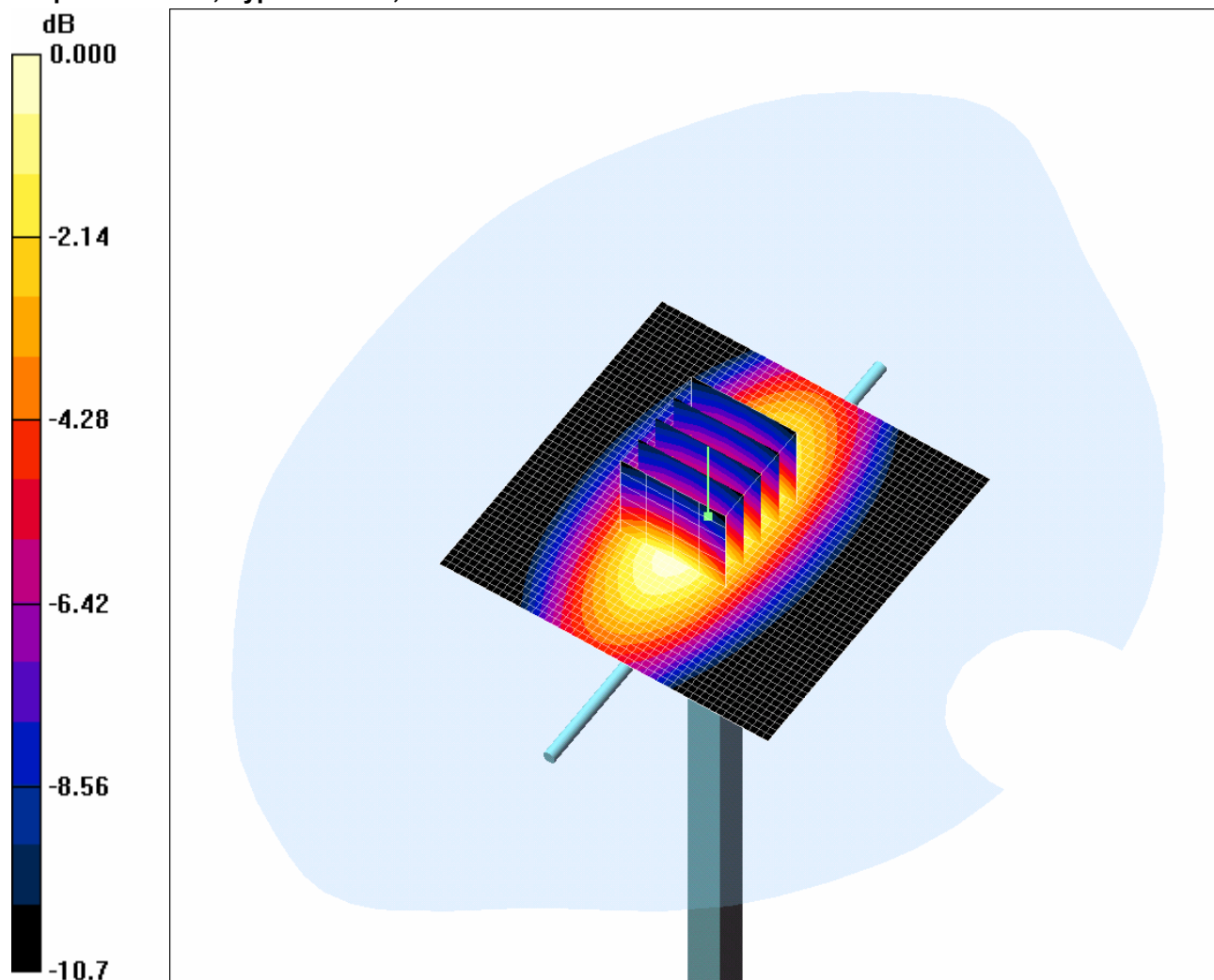
Test of: GE Security
ActiveKey

To: OET Bulletin 65 Supplement C:2001-01

005 System Performance Check_26_07_07

Date: 26/07/2007

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:124



0 dB = 2.80mW/g

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

Medium: 900 MHz MSL Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.05 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(6.06, 6.06, 6.06); Calibrated: 30/08/2006

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

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

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

Maximum value of SAR (interpolated) = 2.91 mW/g

d=10mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.4 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.68 mW/g

Maximum value of SAR (measured) = 2.80 mW/g

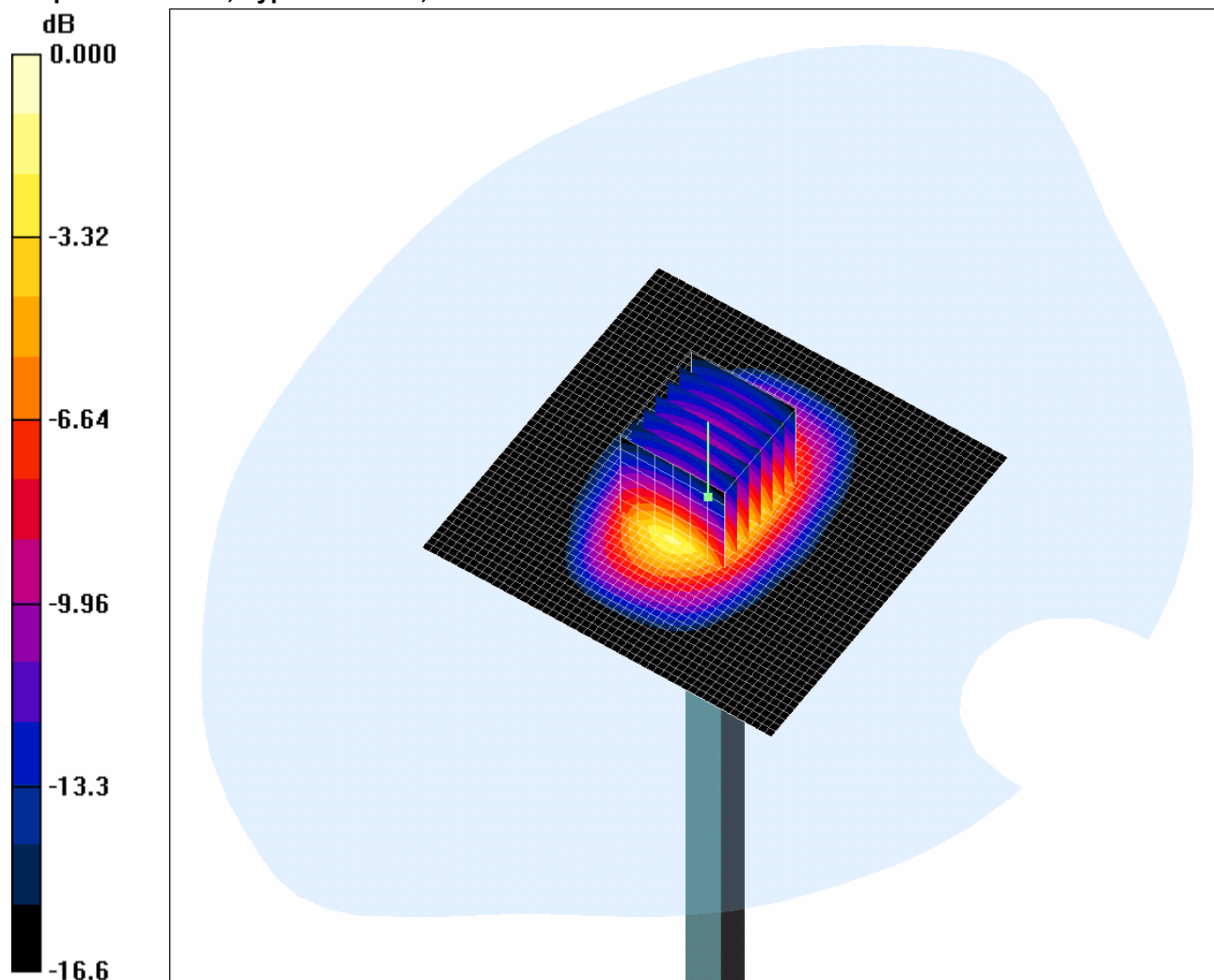
Test of: GE Security
ActiveKey

To: OET Bulletin 65 Supplement C:2001-01

006 System Performance Check-D1900 26 07 07

Date: 26/07/2007

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



0 dB = 10.8mW/g

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

Medium: 1900 MHz MSL Medium parameters used: $f = 1900$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1529; ConvF(4.44, 4.44, 4.44); Calibrated: 30/08/2006

- 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 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 13.9 mW/g

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

Reference Value = 88.6 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 9.49 mW/g; SAR(10 g) = 5.06 mW/g

Maximum value of SAR (measured) = 10.8 mW/g