

DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:464

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

Dipole Validation

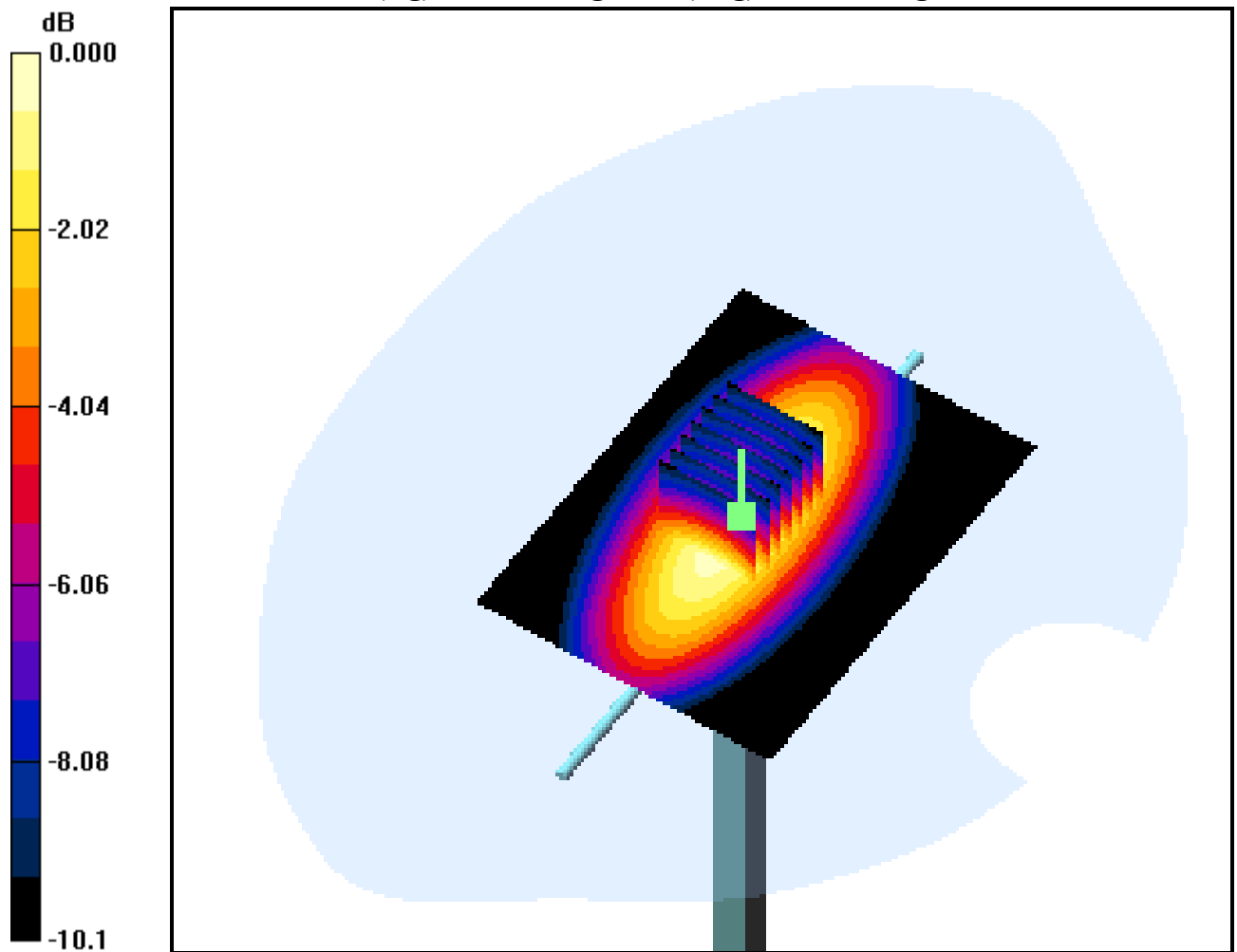
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.064 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.67 mW/g



0 dB = 3.09mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Top, CDMA Cellular Ch. 384, Ant Internal

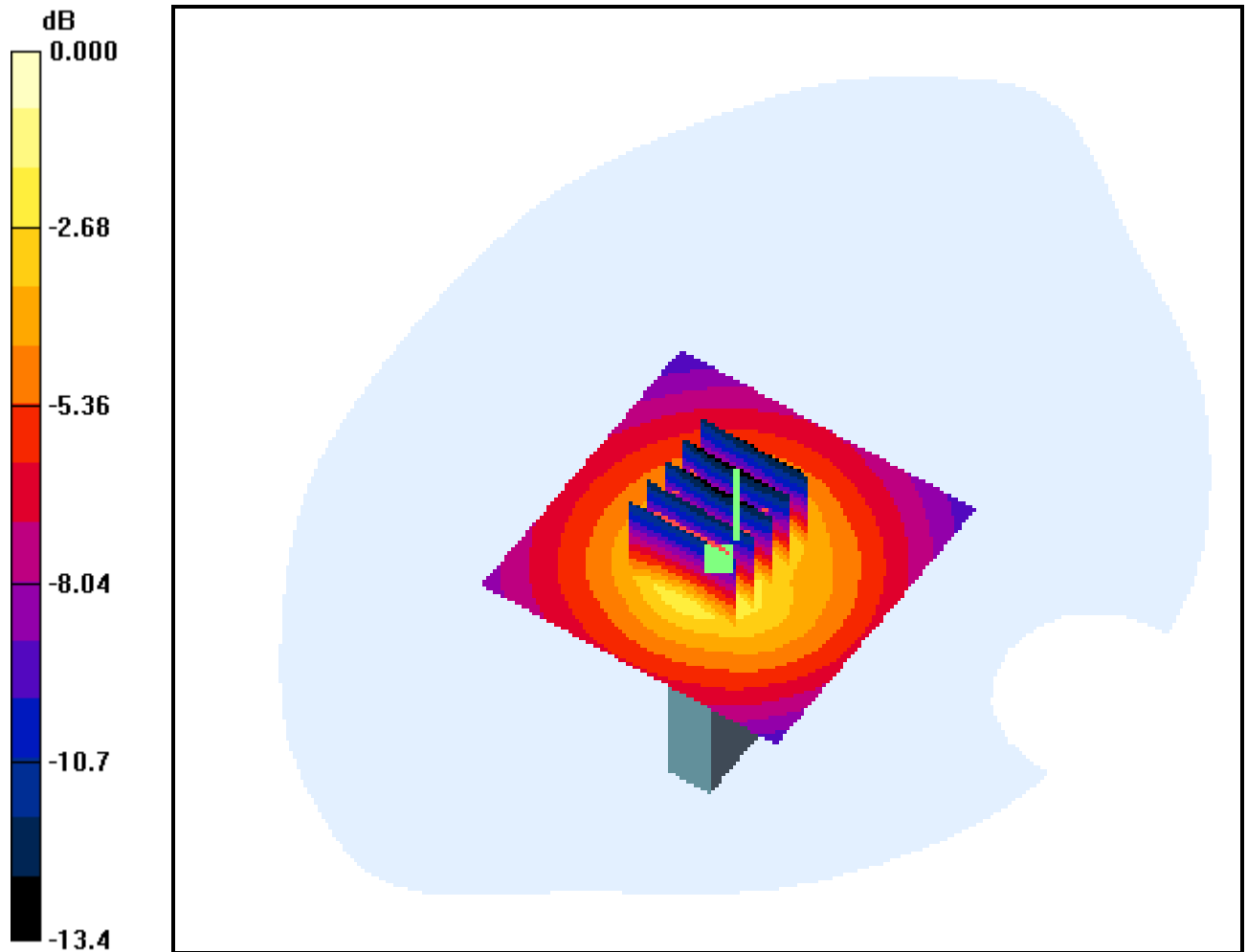
Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.086 mW/g



0 dB = 0.210mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Bottom, CDMA Cellular Ch. 384, Ant Internal

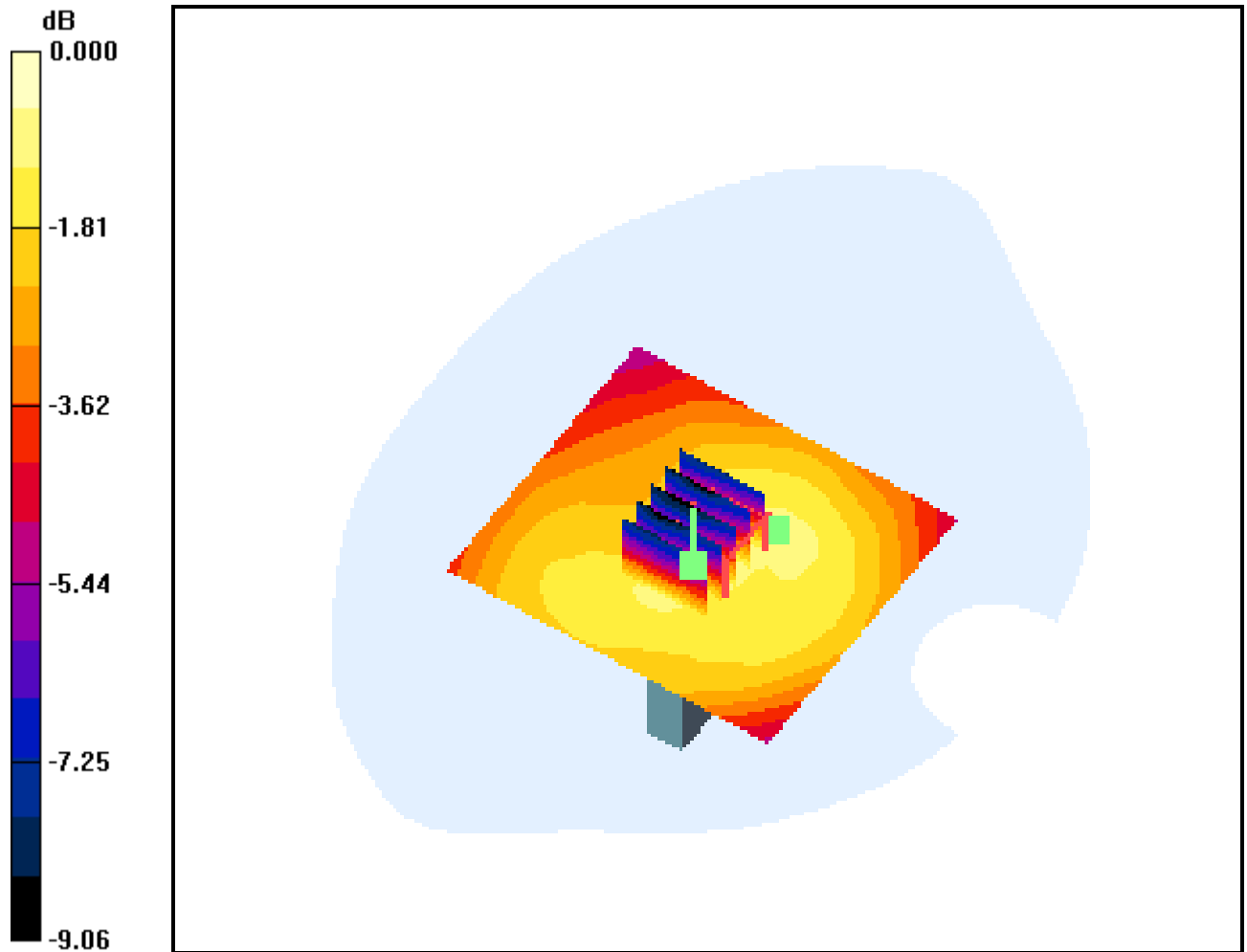
Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.003 dB

Peak SAR (extrapolated) = 0.048 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.021 mW/g



0 dB = 0.038mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Bottom, CDMA Cellular Ch. 384, Ant Internal

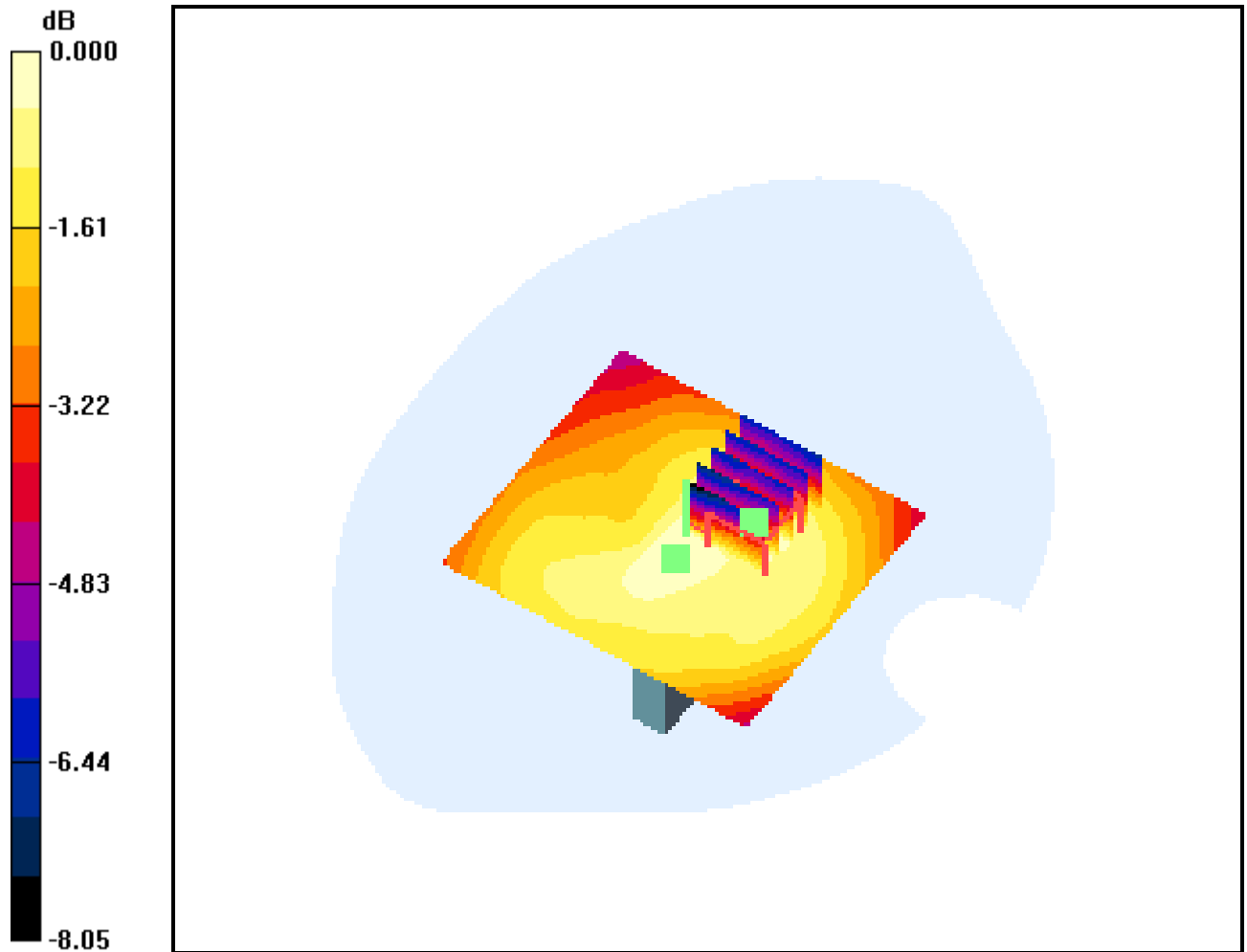
Area Scan (81x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.003 dB

Peak SAR (extrapolated) = 0.042 W/kg

SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.021 mW/g



0 dB = 0.033mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7 \text{ MHz}$; $\sigma = 0.942 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Horizontal Up, CDMA Cellular Ch. 1013, Ant Internal

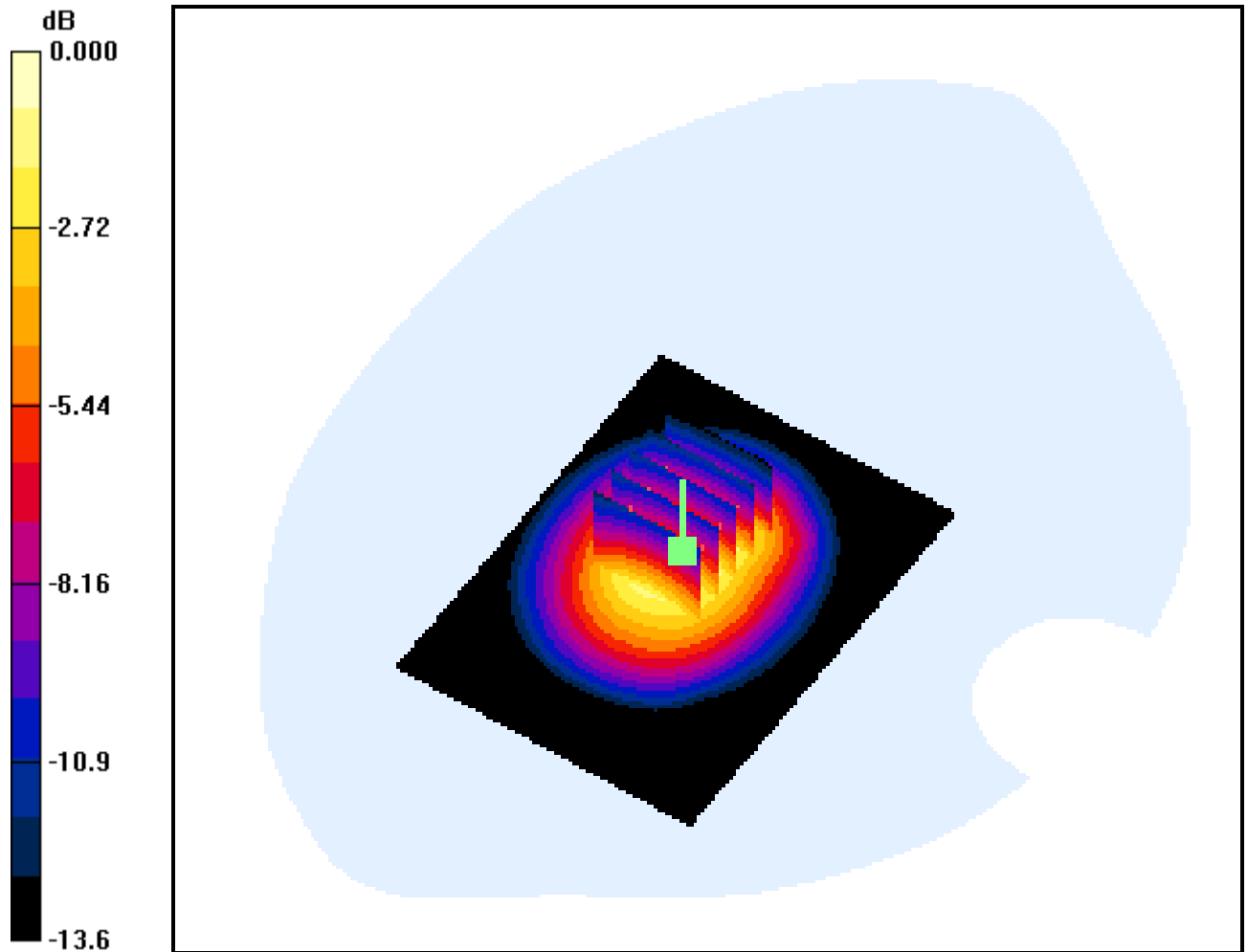
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.229 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.607 mW/g



0 dB = 1.32mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Horizontal Up, CDMA Cellular Ch. 384, Ant Internal

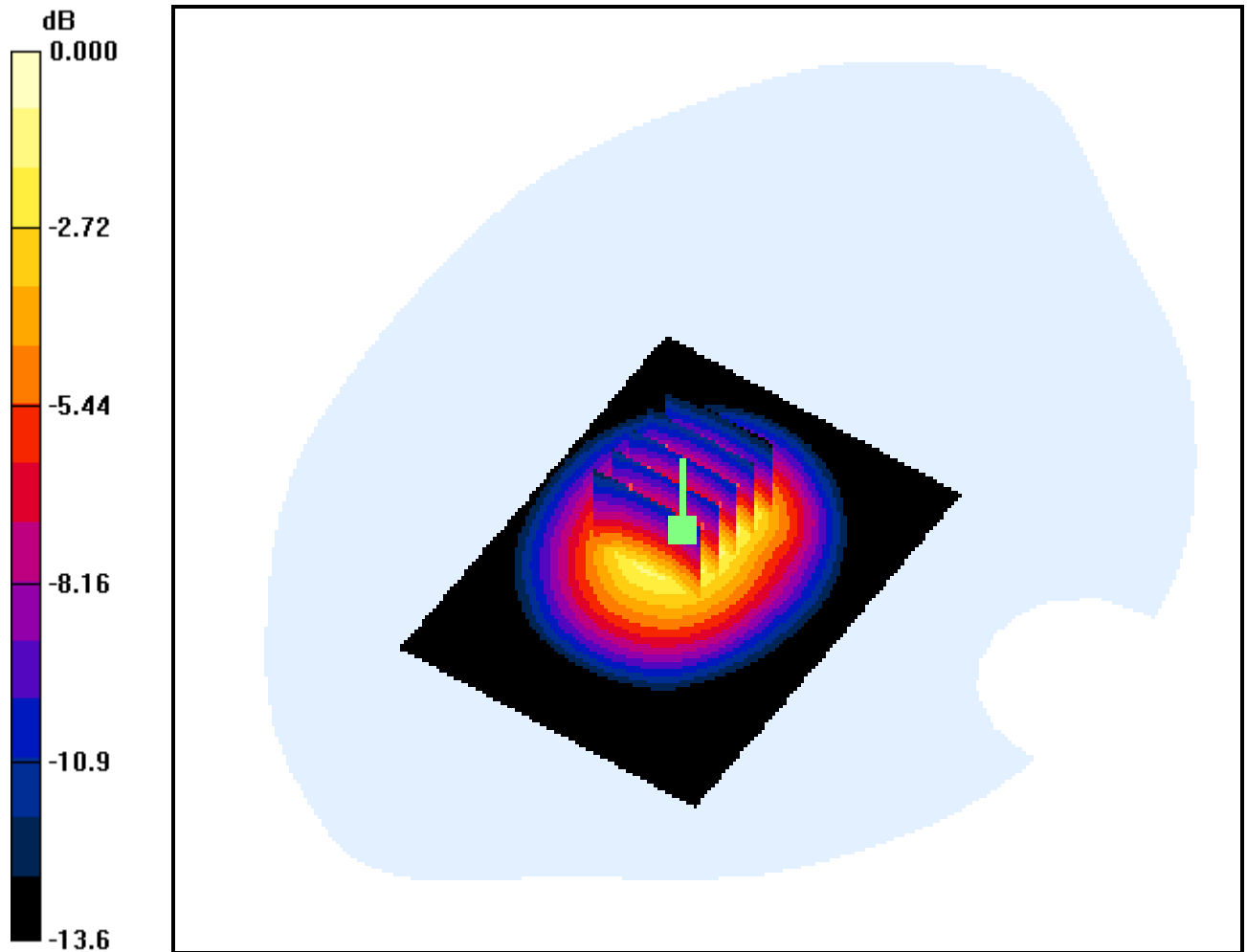
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.377 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.601 mW/g



0 dB = 1.29mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.31 \text{ MHz}$; $\sigma = 0.985 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Horizontal Up, CDMA Cellular Ch. 777, Ant Internal

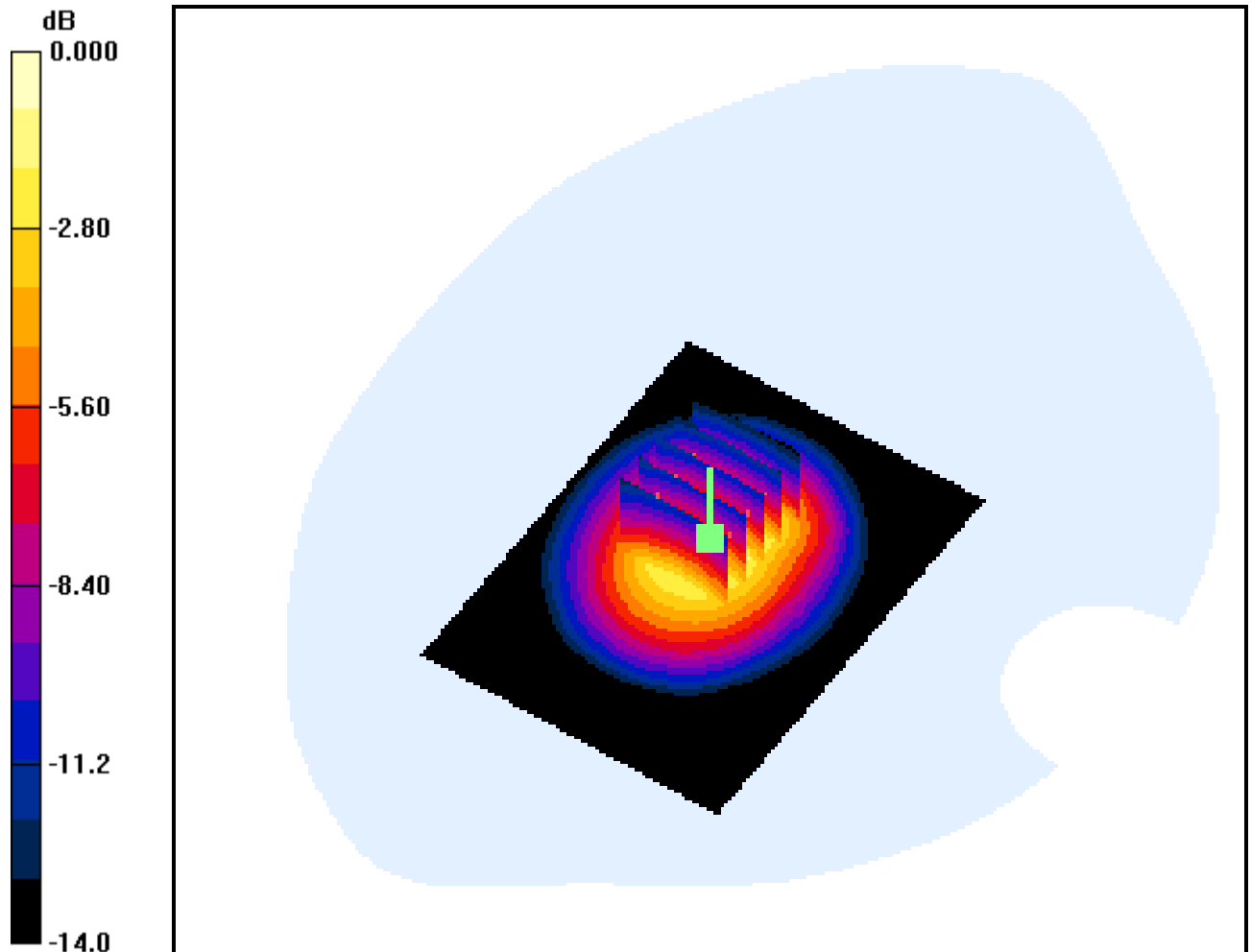
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.091 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.595 mW/g



0 dB = 1.33mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Horizontal Down, CDMA Cellular Ch. 384, Ant Internal

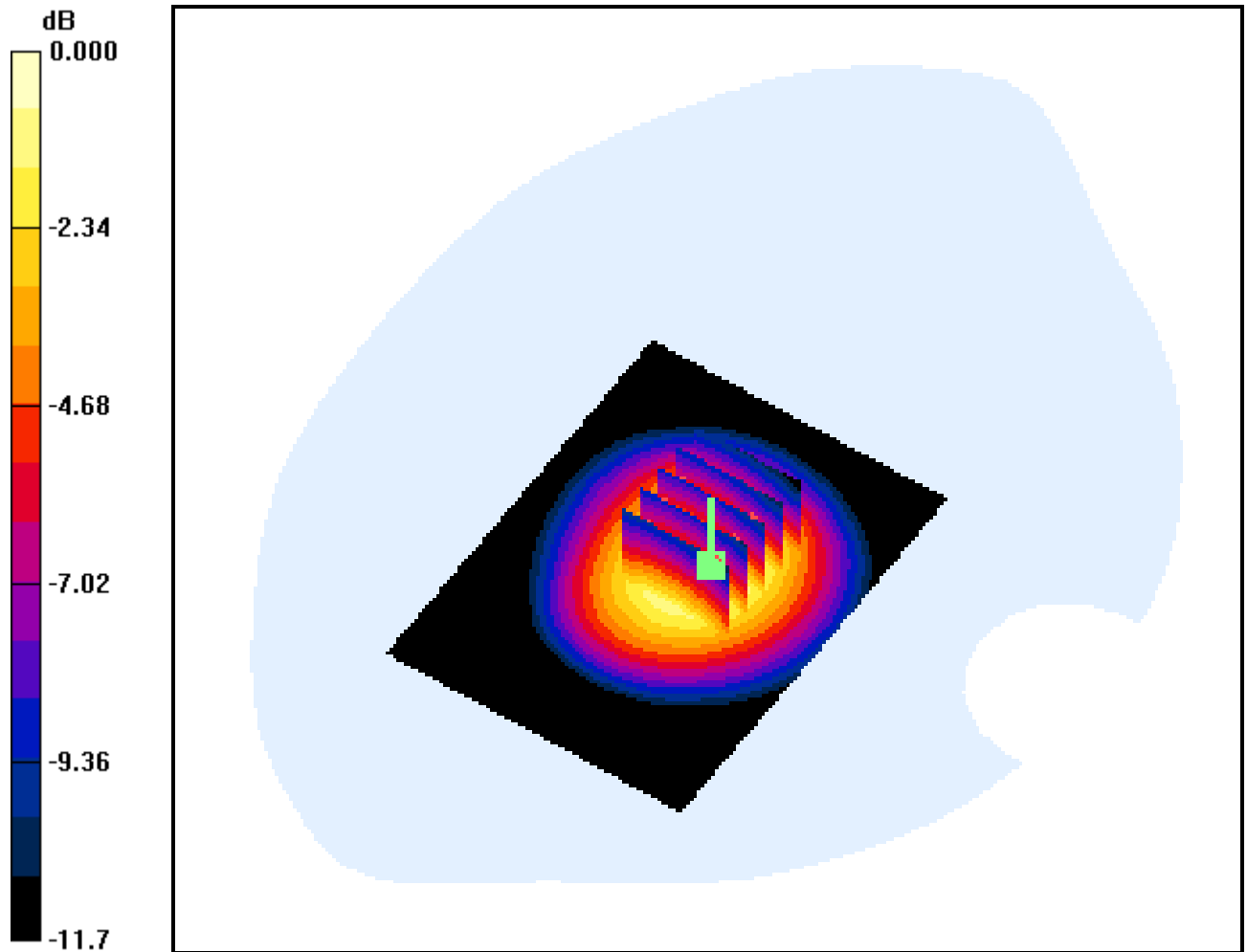
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.666 W/kg

SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.310 mW/g



DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Vertical Front, CDMA Cellular Ch. 384, Ant Internal

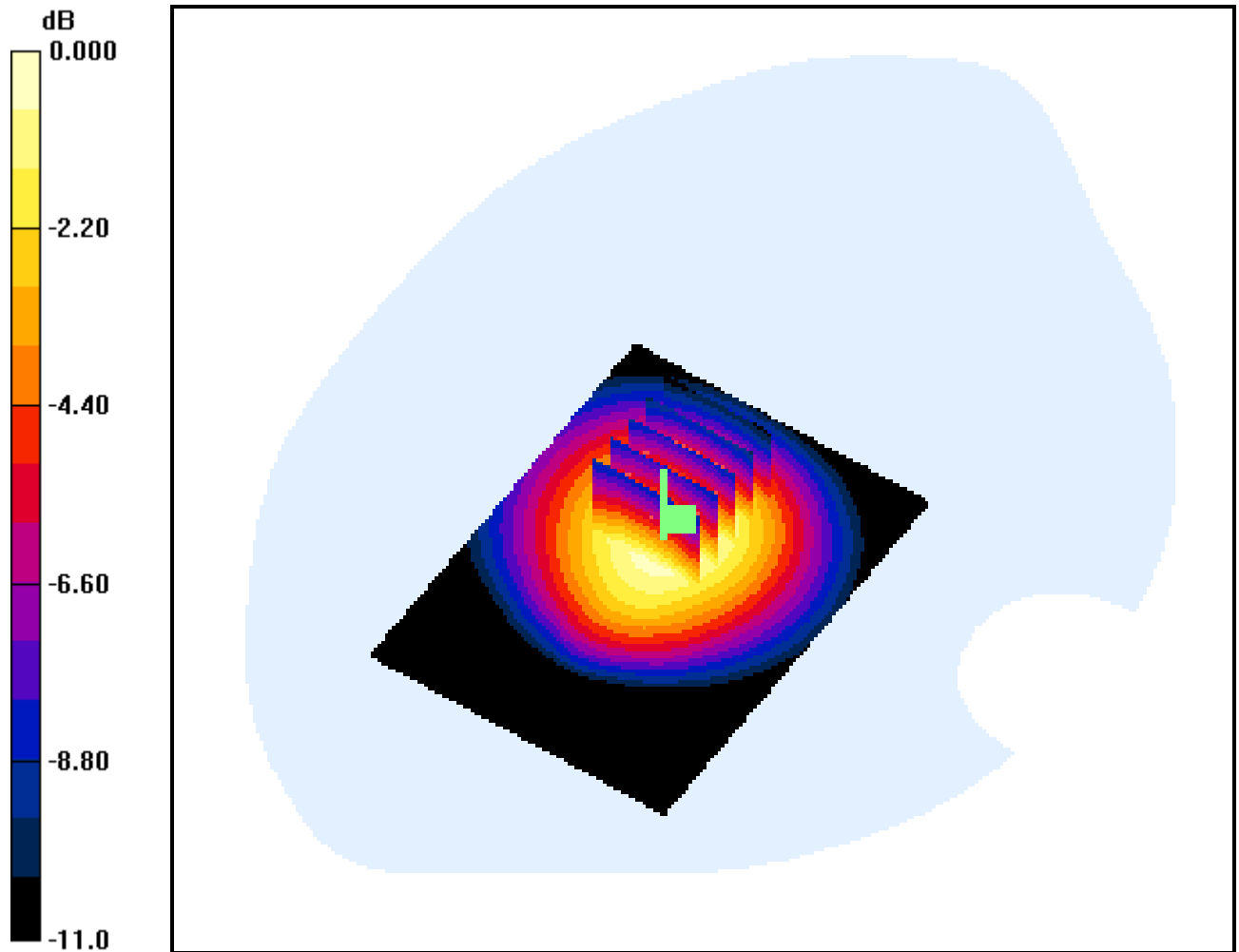
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.357 dB

Peak SAR (extrapolated) = 0.448 W/kg

SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.224 mW/g



0 dB = 0.379mW/g

DIGITAL EMC CO., LTD

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Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Vertical Back, CDMA Cellular Ch. 384, Ant Internal

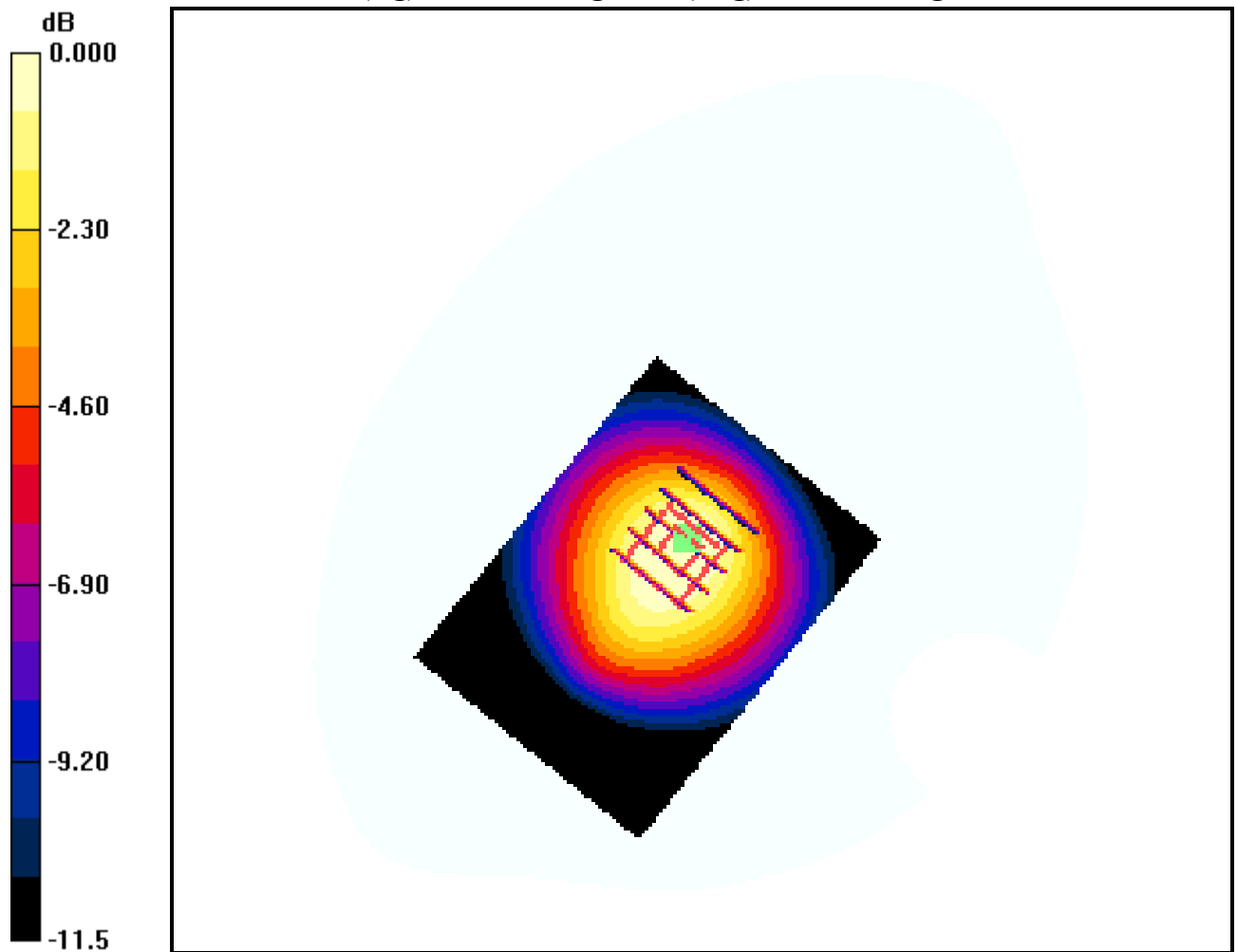
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.363 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.193 mW/g



0 dB = 0.324mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVPA; Type: Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7 \text{ MHz}$; $\sigma = 0.942 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-03-02; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Horizontal Up, CDMA Cellular Ch. 1013, Ant Internal

Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.229 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.607 mW/g

