

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: $f = 835 \text{ MHz}$; $\sigma = 0.958 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

Dipole Validation

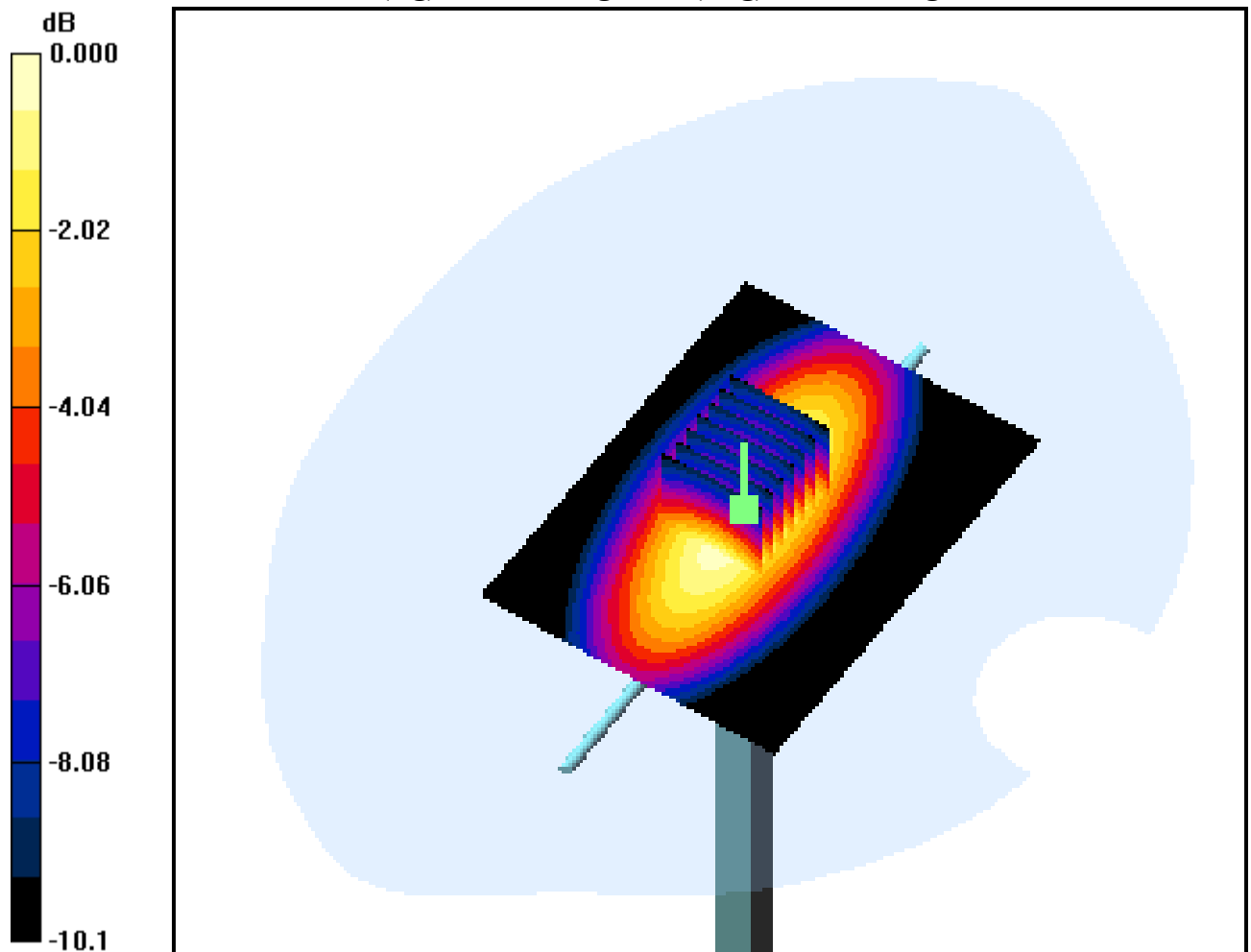
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.002 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.66 mW/g



0 dB = 3.05mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Top, CDMA Cellular Ch. 384, Ant Internal

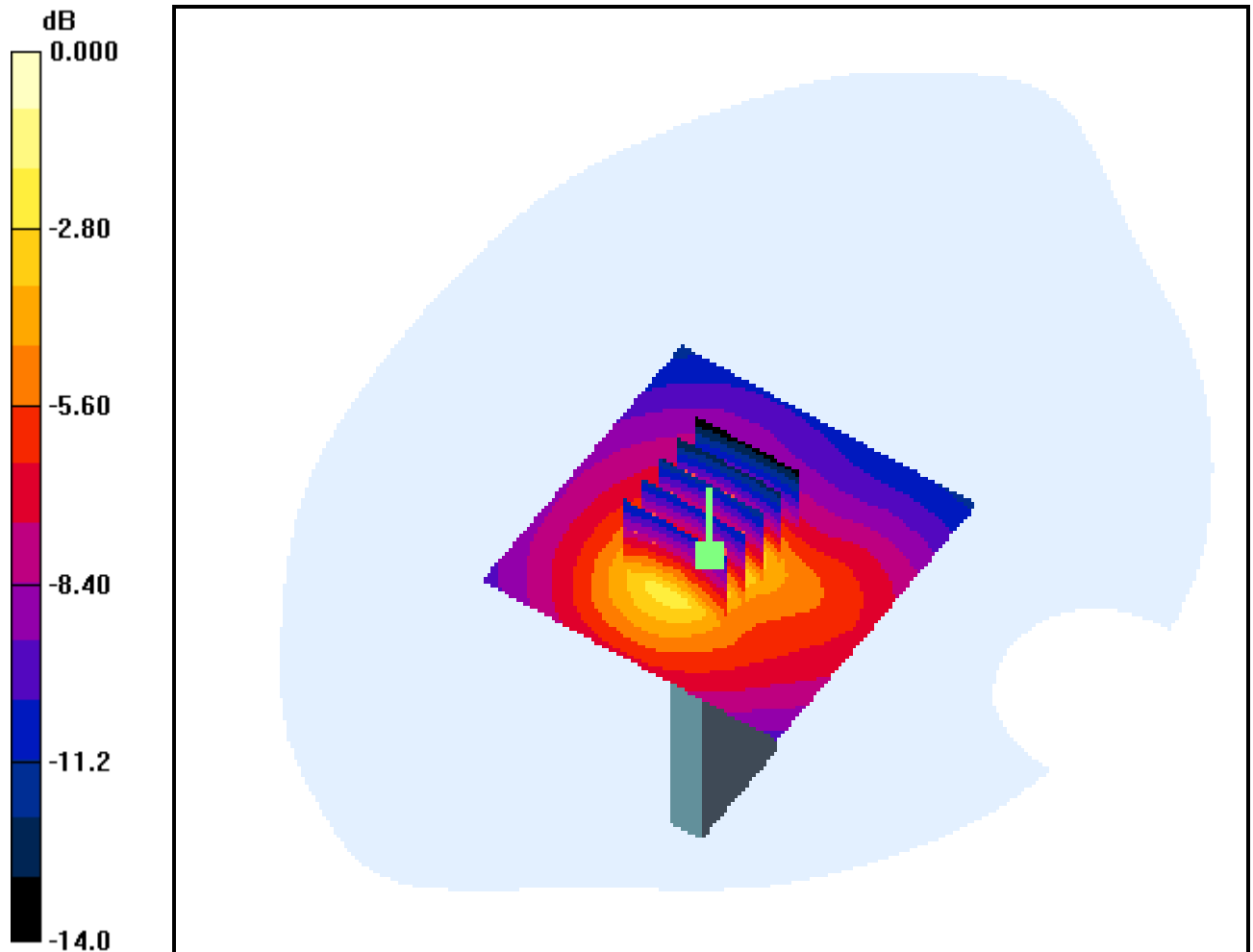
Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.158 mW/g



0 dB = 0.376mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Bottom, CDMA Cellular Ch. 384, Ant Internal

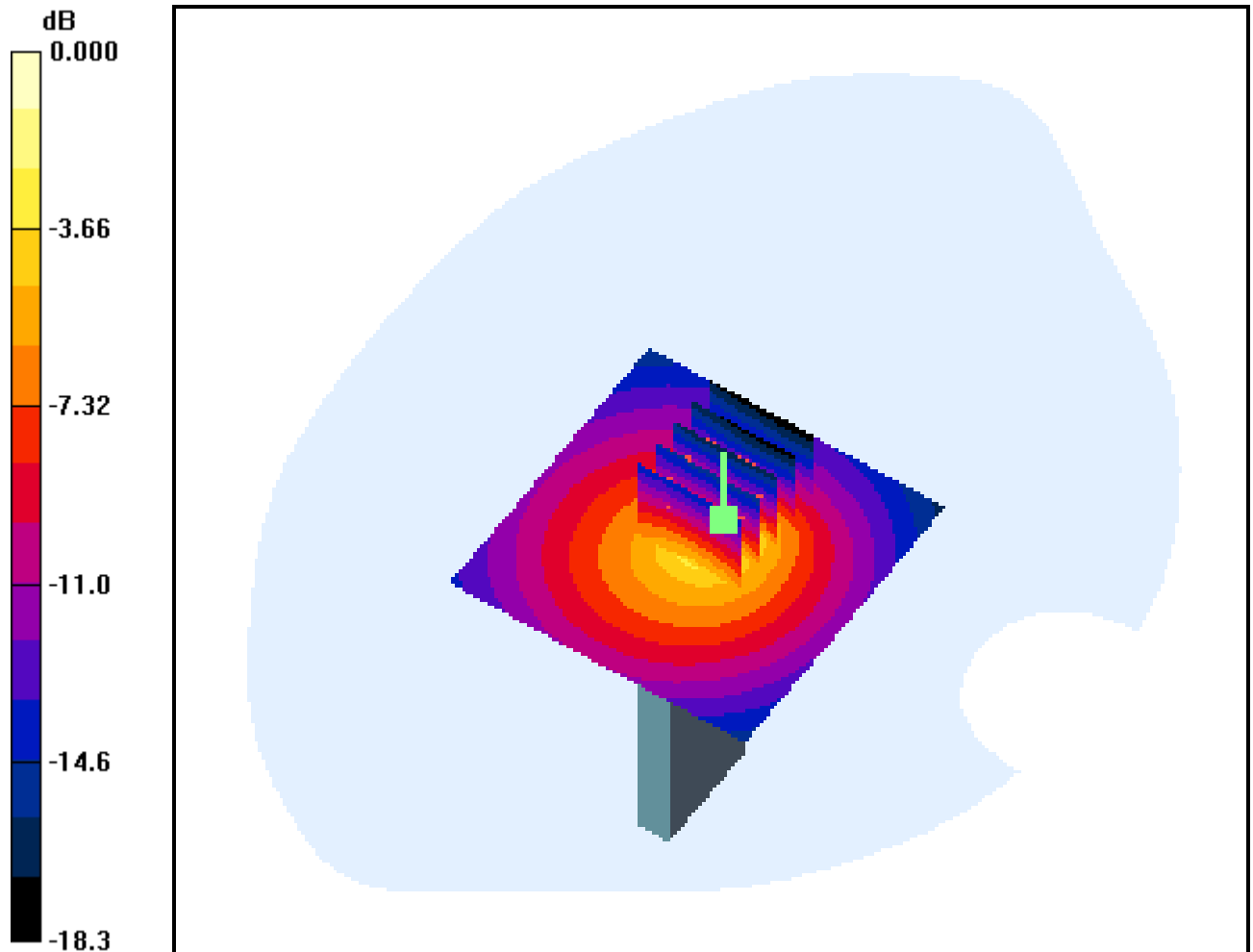
Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.228 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.477 mW/g; SAR(10 g) = 0.215 mW/g



0 dB = 0.791mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7$ MHz; $\sigma = 0.941$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Up, CDMA Cellular Ch. 1013, Ant Internal

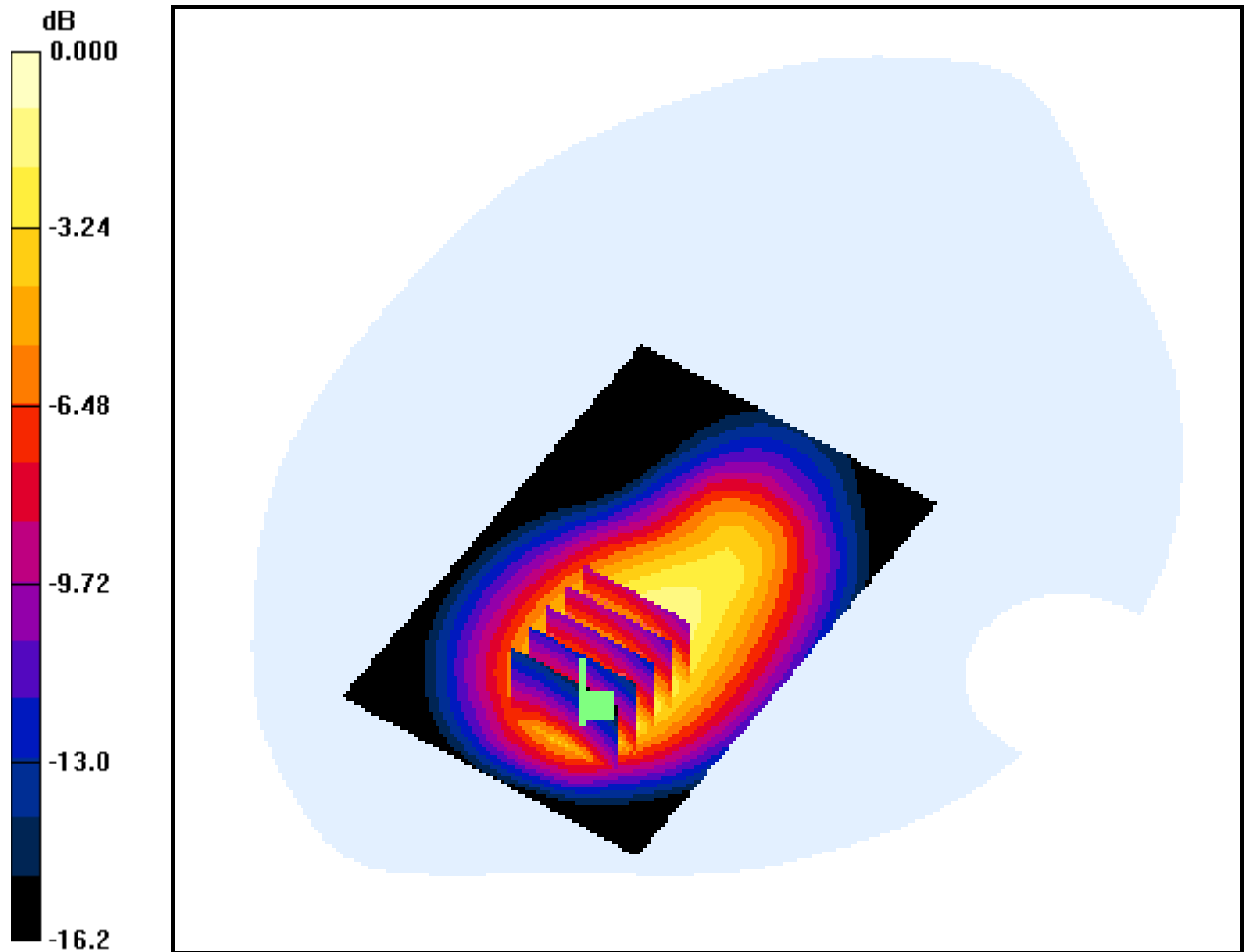
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.067 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.605 mW/g



0 dB = 1.15mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Up, CDMA Cellular Ch. 384, Ant Internal

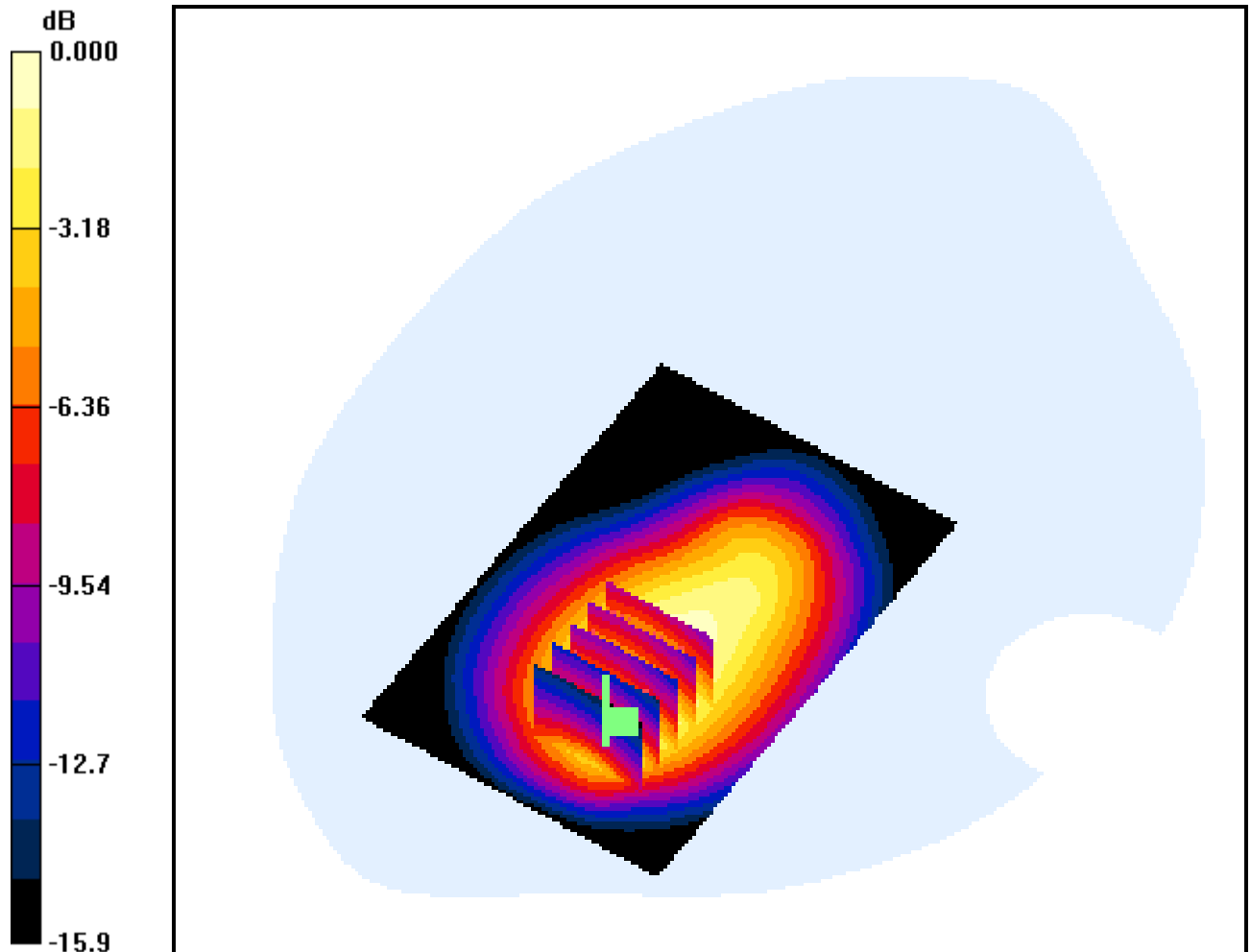
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.375 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.629 mW/g



0 dB = 1.19mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.987$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Up, CDMA Cellular Ch. 777, Ant Internal

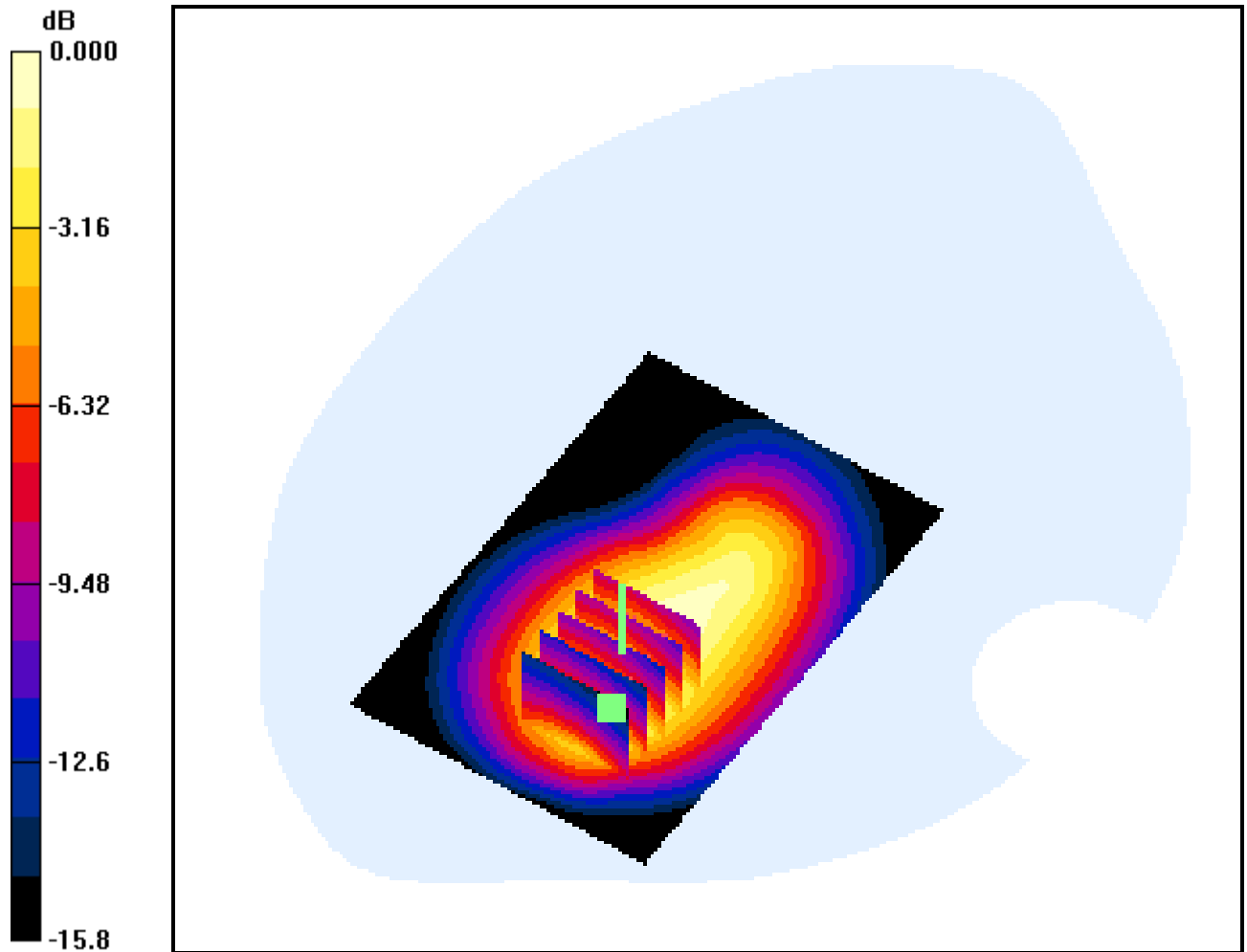
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.258 mW/g



0 dB = 0.480mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7$ MHz; $\sigma = 0.941$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Down, CDMA Cellular Ch. 1013, Ant Internal

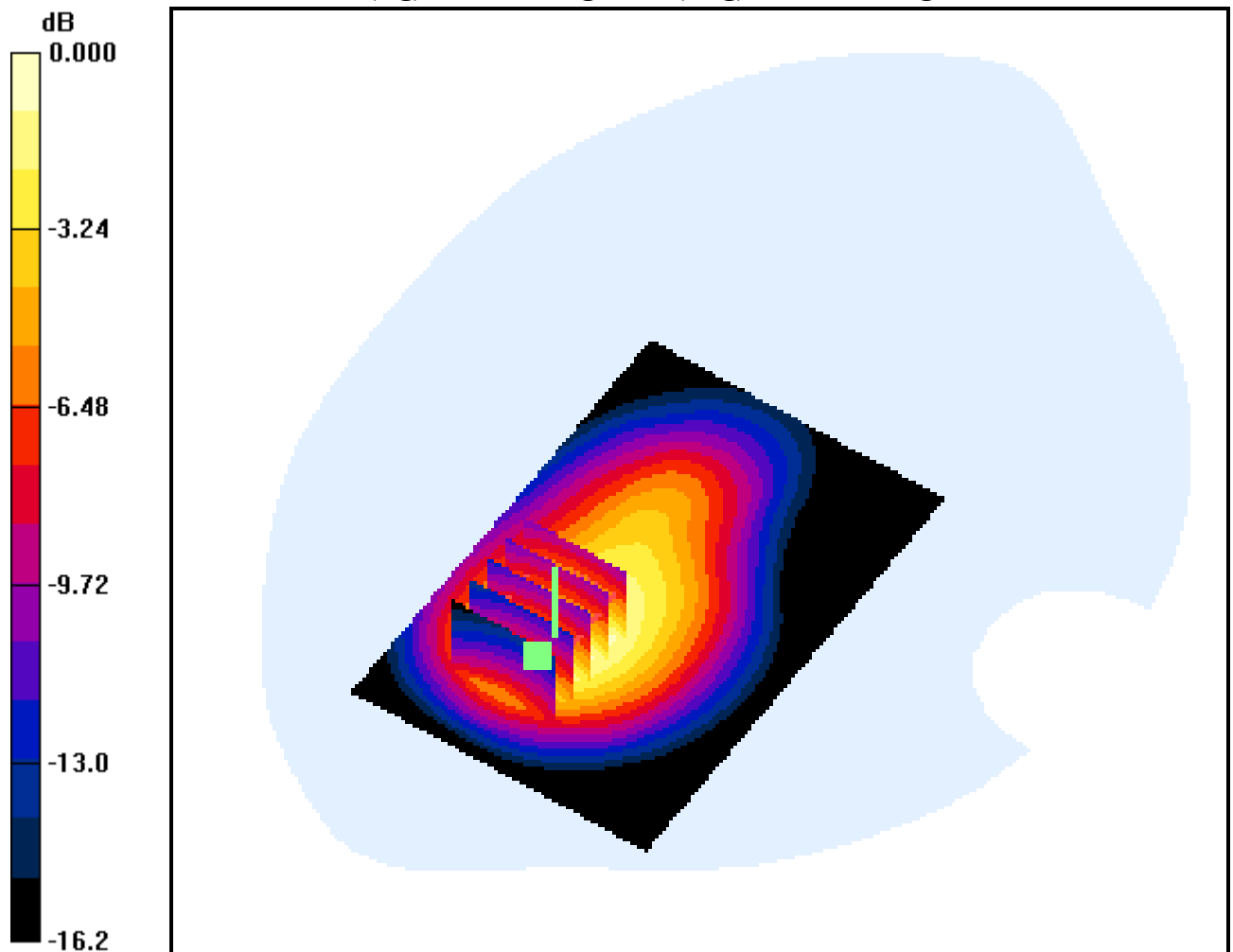
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.690 mW/g



0 dB = 1.35mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Down, CDMA Cellular Ch. 384, Ant Internal

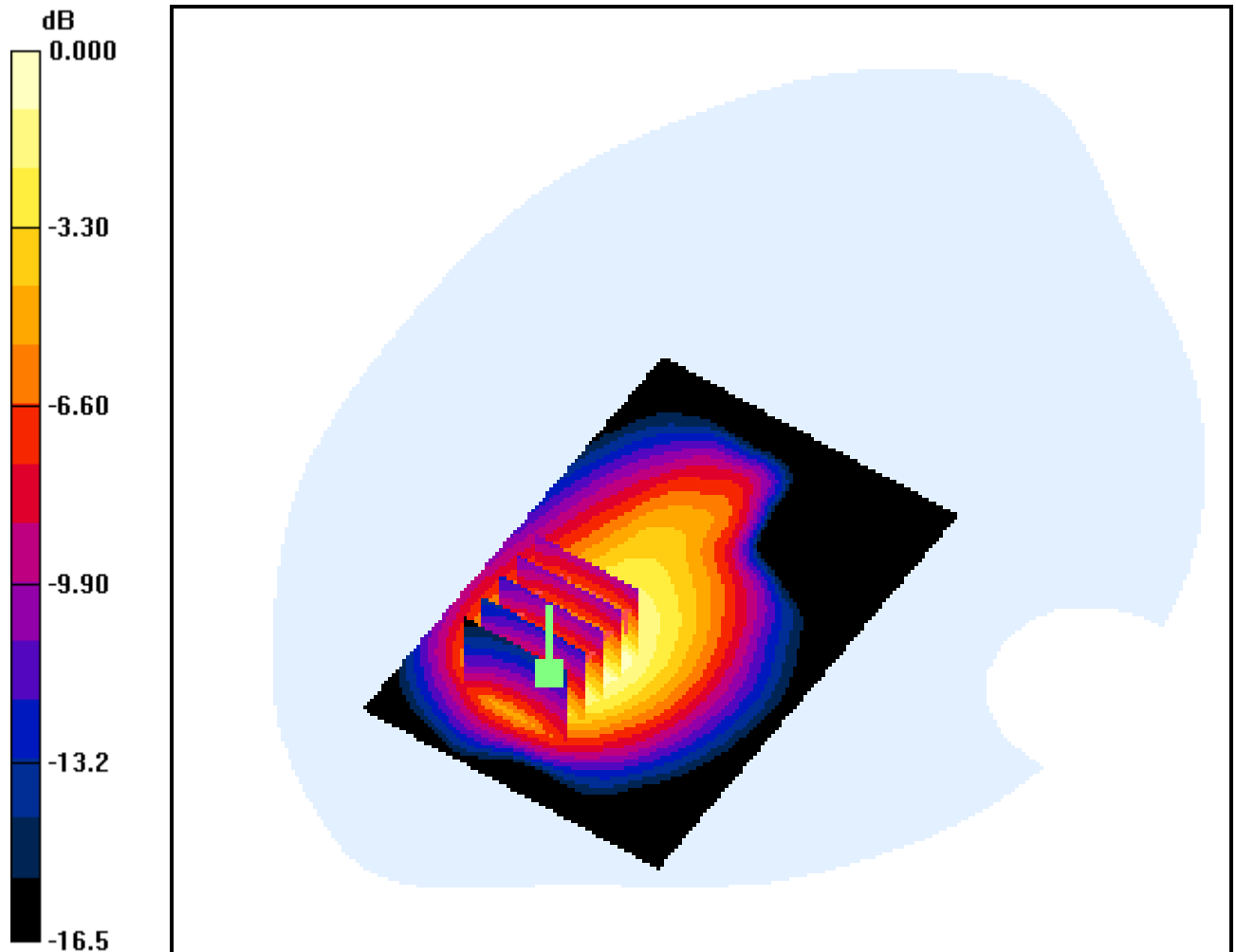
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.129 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.657 mW/g



0 dB = 1.28mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.987$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Down, CDMA Cellular Ch. 777, Ant Internal

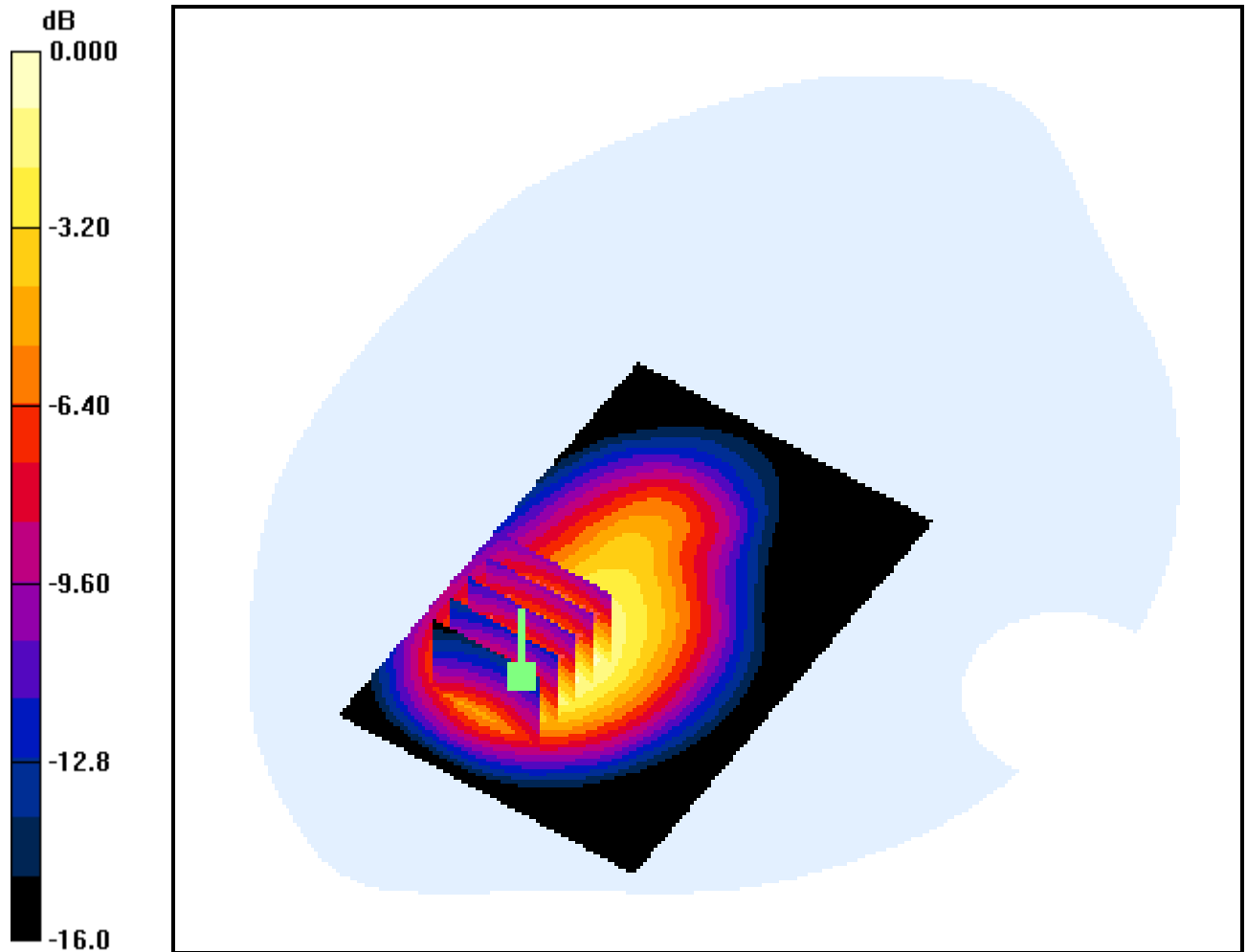
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.040 dB

Peak SAR (extrapolated) = 0.971 W/kg

SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.372 mW/g



0 dB = 0.734mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Vertical Front, CDMA Cellular Ch. 384, Ant Internal

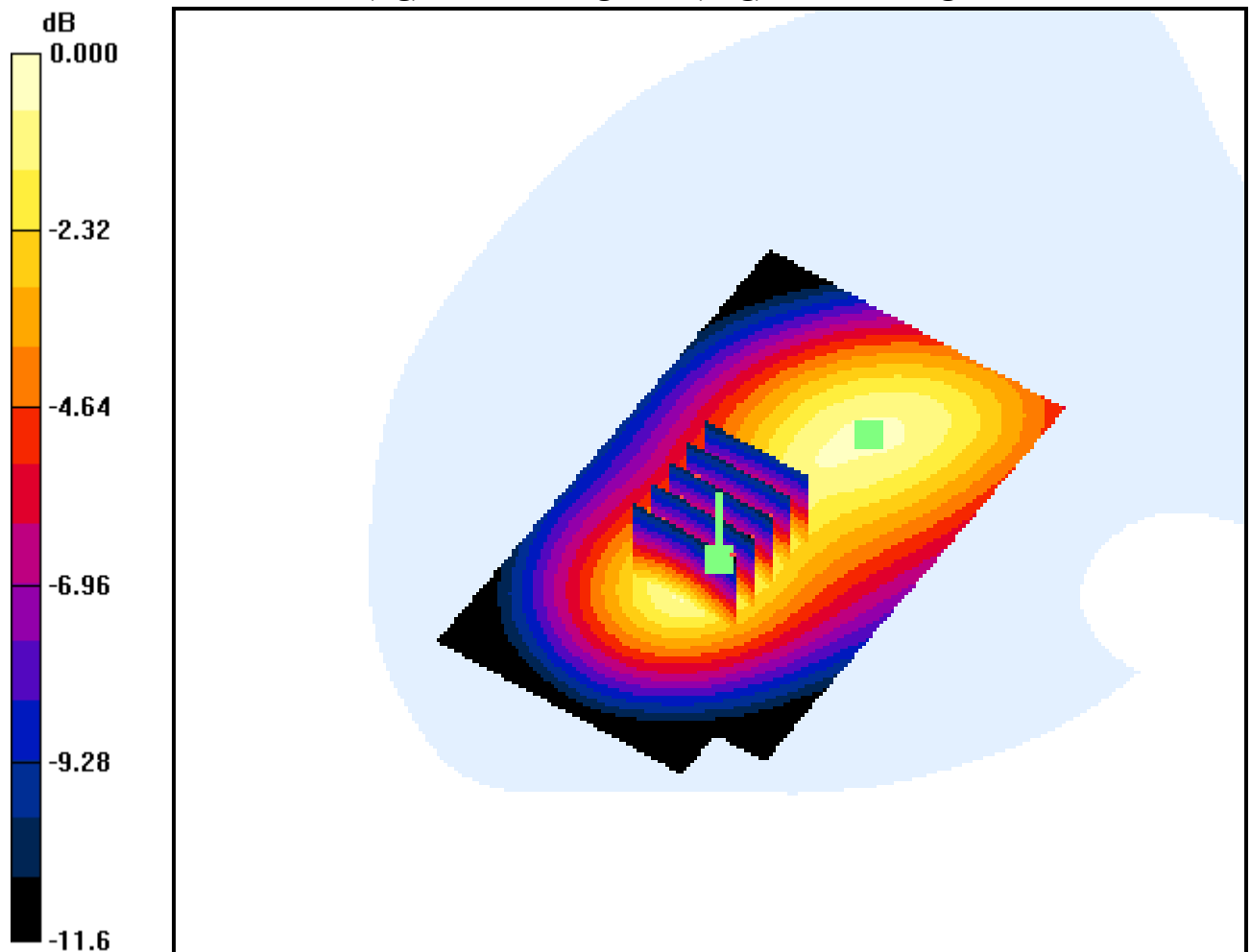
Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.460 W/kg

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.181 mW/g



0 dB = 0.358mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Vertical Front, CDMA Cellular Ch. 384, Ant Internal

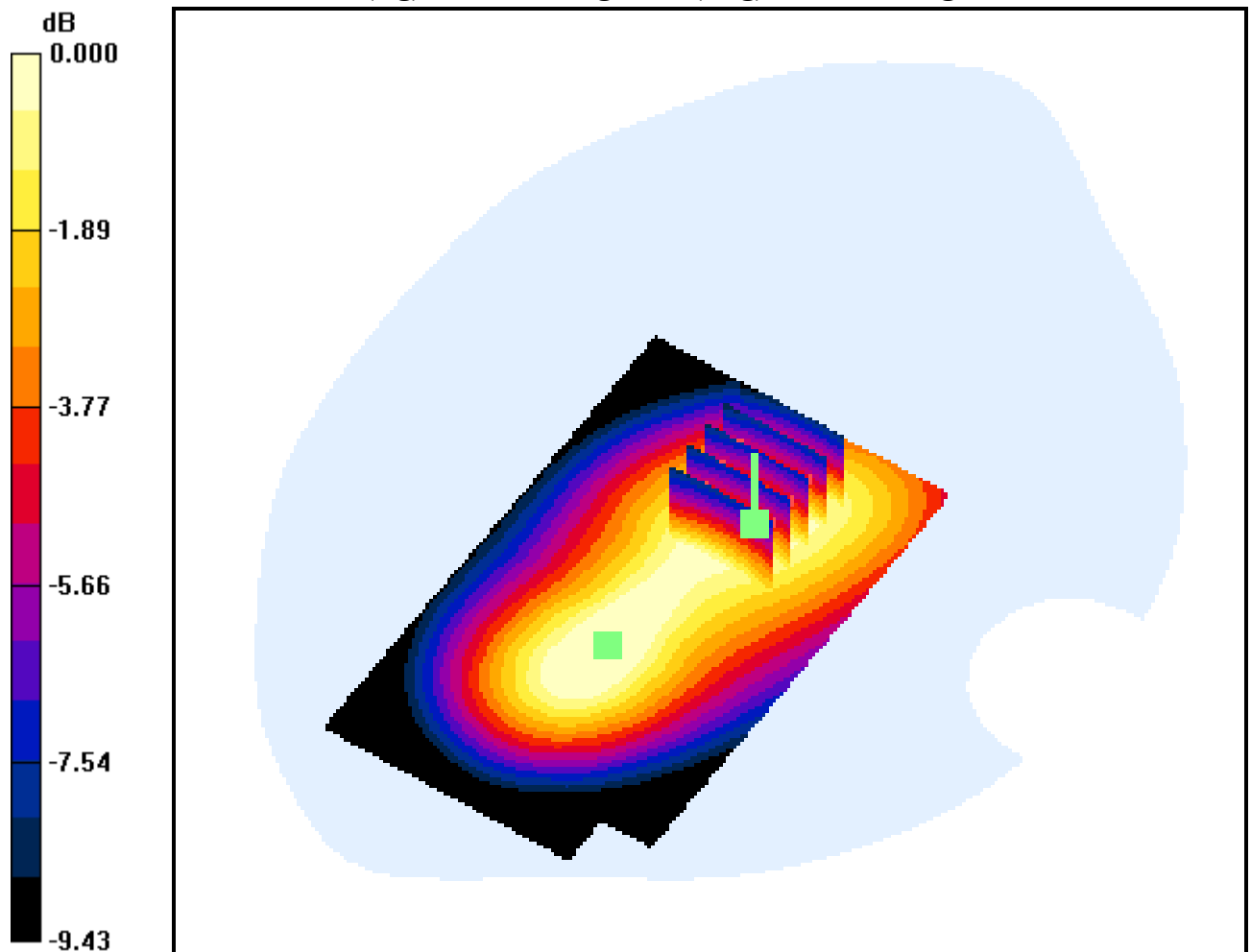
Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.191 mW/g



0 dB = 0.308mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7 \text{ MHz}$; $\sigma = 0.941 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Vertical Back, CDMA Cellular Ch. 1013, Ant Internal

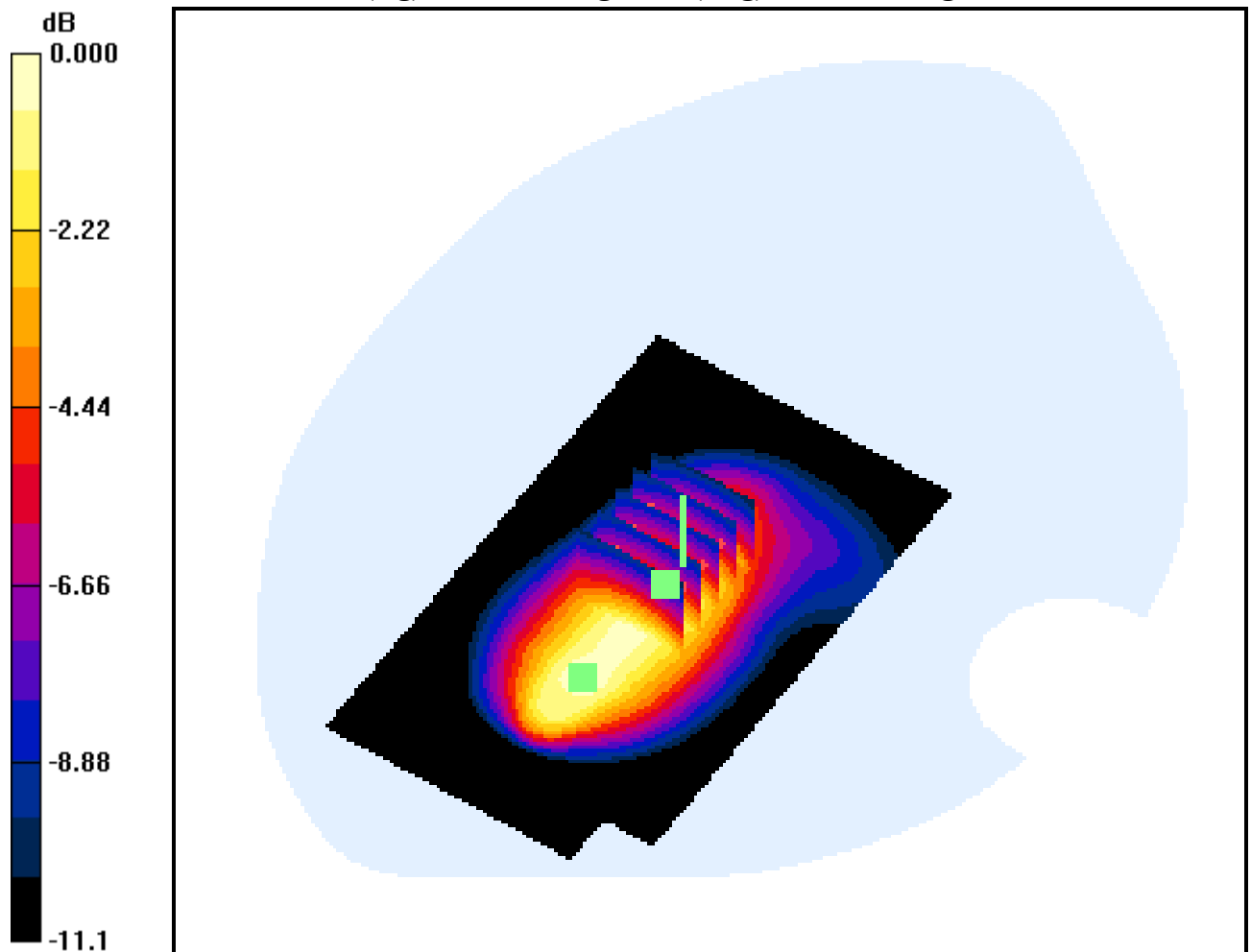
Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.075 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.565 mW/g



0 dB = 1.07mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7$ MHz; $\sigma = 0.941$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Vertical Back, CDMA Cellular Ch. 1013, Ant Internal

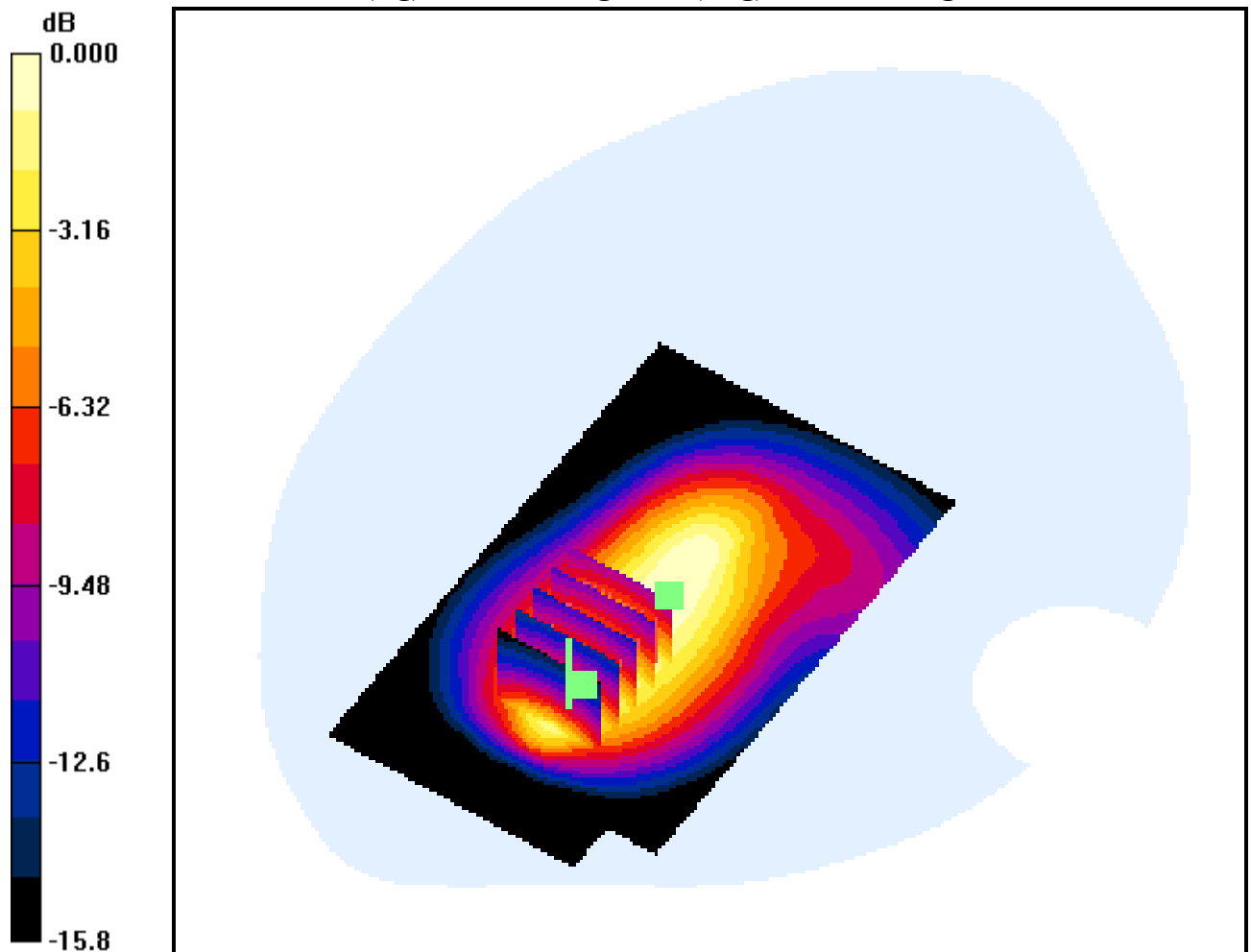
Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.075 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.494 mW/g



0 dB = 1.05mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Vertical Back, CDMA Cellular Ch. 384, Ant Internal

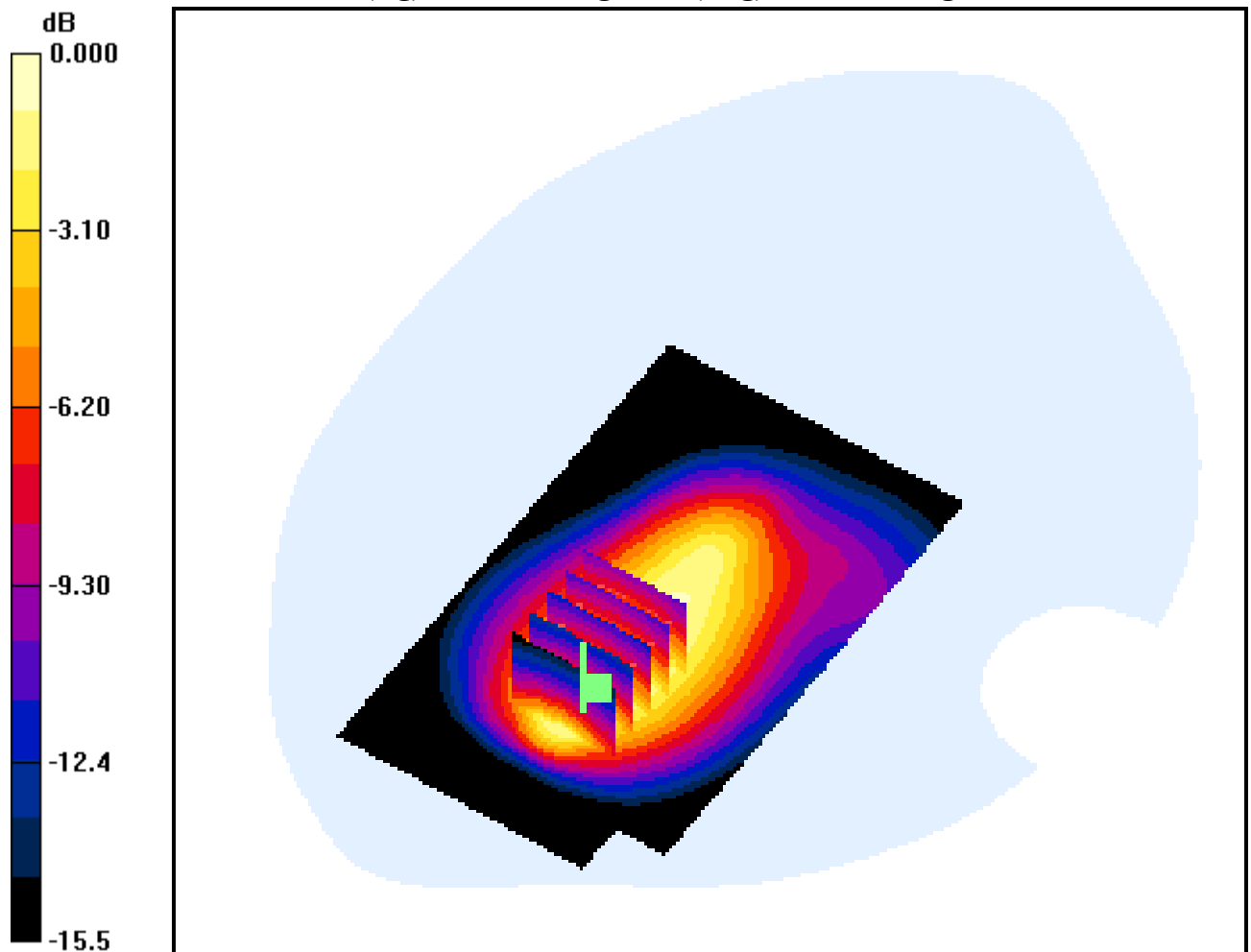
Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.121 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.601 mW/g



0 dB = 1.29mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.987$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Vertical Back, CDMA Cellular Ch. 777, Ant Internal

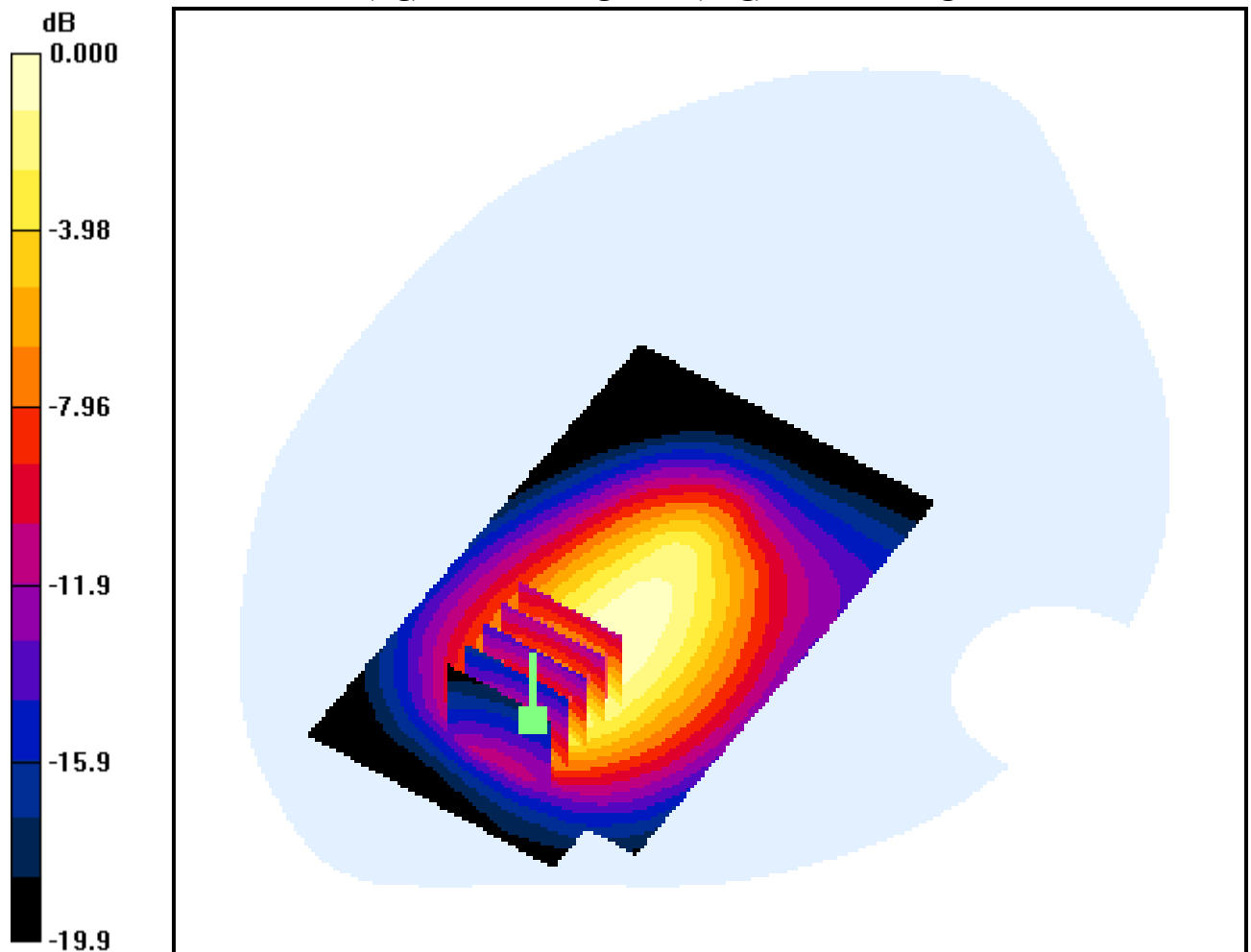
Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.235 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.283 mW/g



0 dB = 0.692mW/g

DIGITAL EMC CO., LTD

DUT: GPS100MVP; Type: USB Dongle

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 824.7 \text{ MHz}$; $\sigma = 0.941 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$
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: 2011-02-22; Ambient Temp: 22.0; Tissue Temp: 22.5

5mm space from Body, Horizontal Down, CDMA Cellular Ch. 1013, Ant Internal

Area Scan (61x91x1): 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 = -0.008 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.690 mW/g

