

SAR Plots

- Verification Plots
- SAR Test Plots

DT&C Co., Ltd.

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 41.505$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.26, 6.26, 6.26); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.6

835 MHz System Head Verification (250 mW)

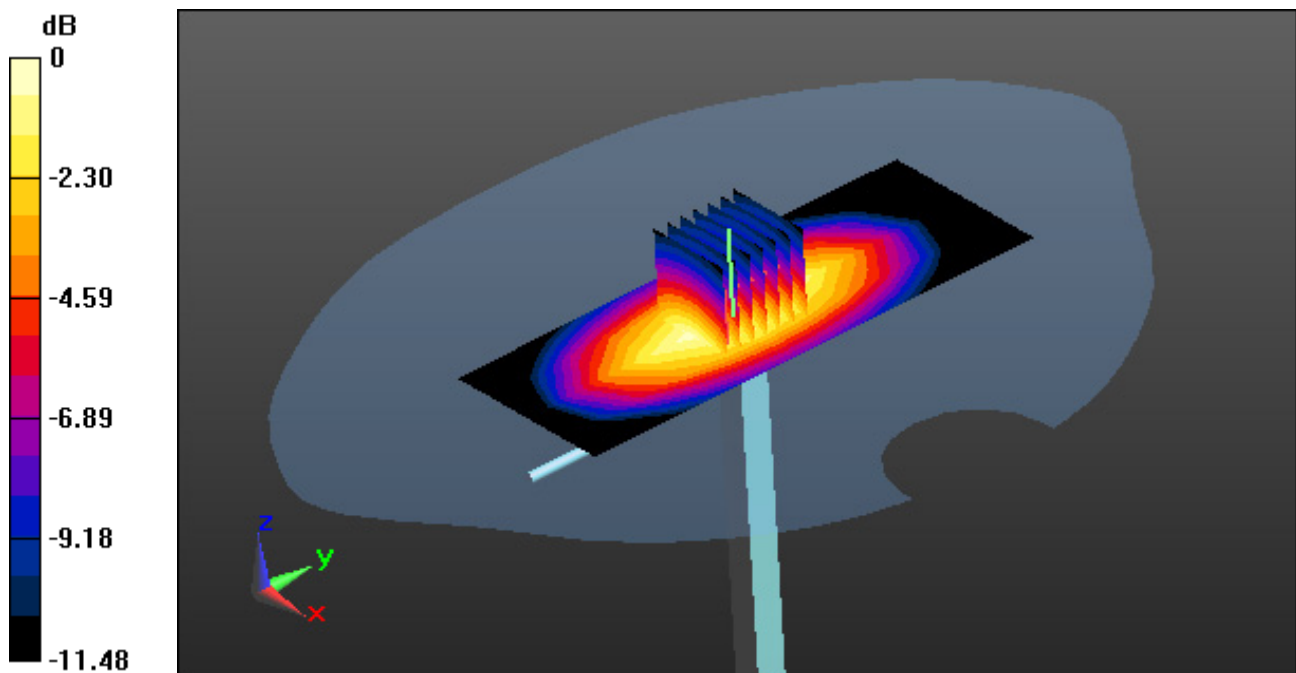
Area Scan (5x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.51 W/kg



0 dB = 2.67 W/kg

DT&C Co., Ltd.

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.972 \text{ S/m}$; $\epsilon_r = 54.969$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.5

835 MHz System Body Verification (250 mW)

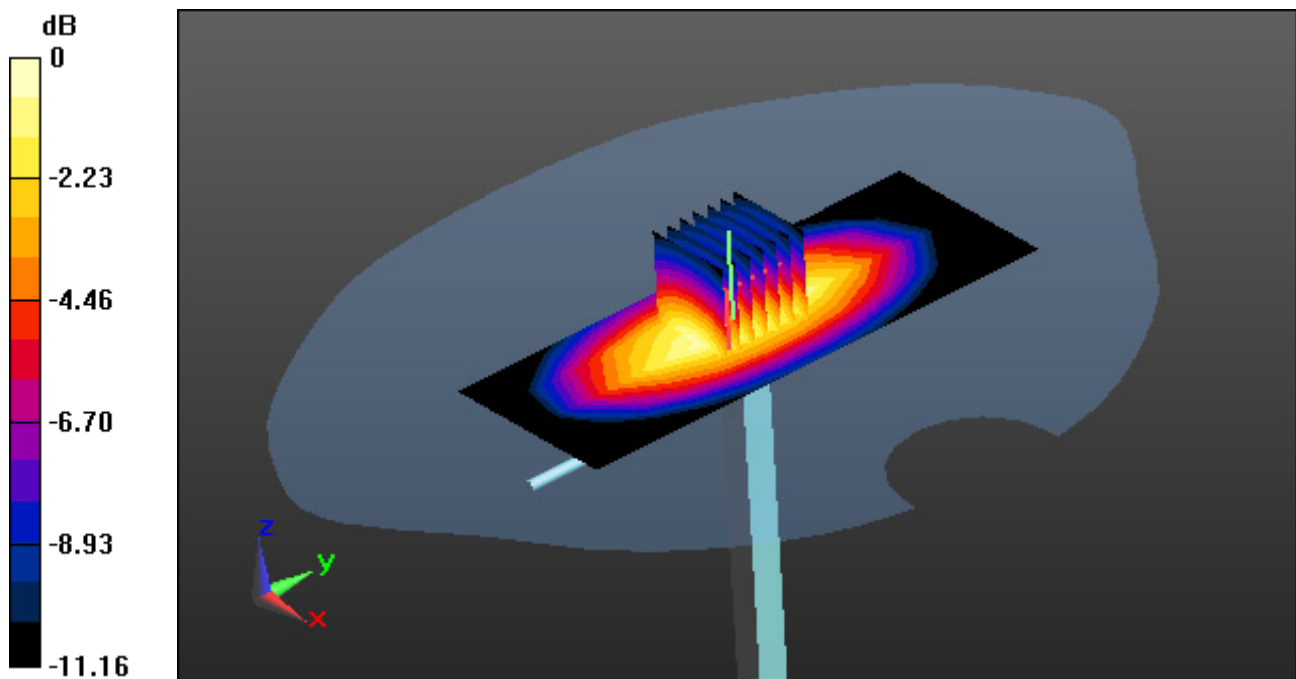
Area Scan (5x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.62 W/kg



0 dB = 2.66 W/kg

DT&C Co., Ltd.

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 41.421$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.26, 6.26, 6.26); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-22; Ambient Temp: 21.0; Tissue Temp: 21.5

835 MHz System Head Verification (250 mW)

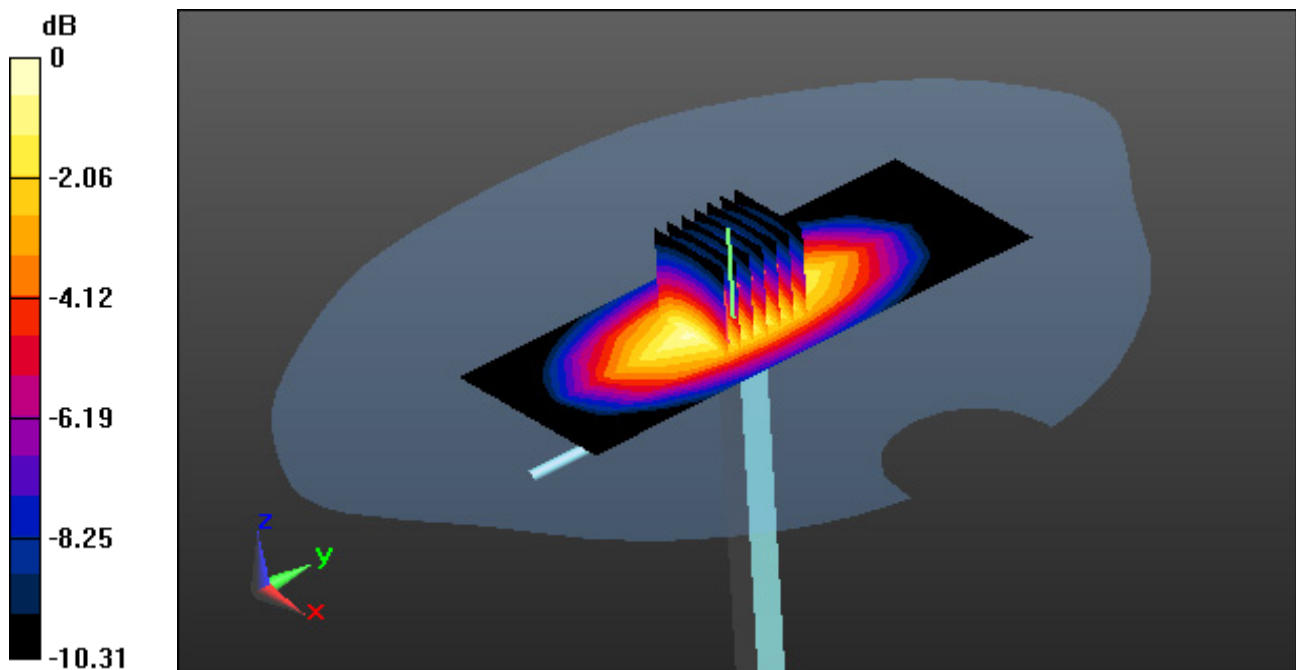
Area Scan (5x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.83 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.58 W/kg



0 dB = 2.72 W/kg

DT&C Co., Ltd.

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.971 \text{ S/m}$; $\epsilon_r = 54.970$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-22; Ambient Temp: 21.0; Tissue Temp: 21.3

835 MHz System Body Verification (250 mW)

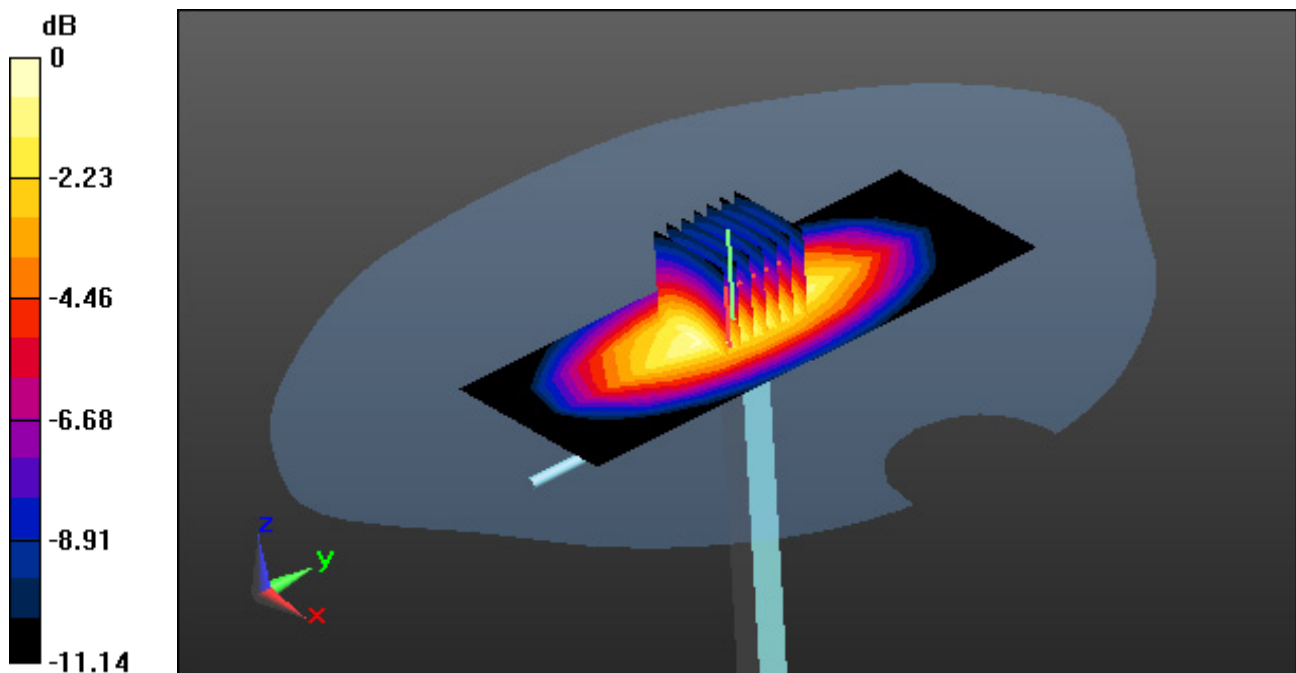
Area Scan (5x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg



0 dB = 2.56 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 39.730$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(5.1, 5.1, 5.1); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-21; Ambient Temp: 20.6; Tissue Temp: 21.3

1900 MHz System Head Verification (100 mW)

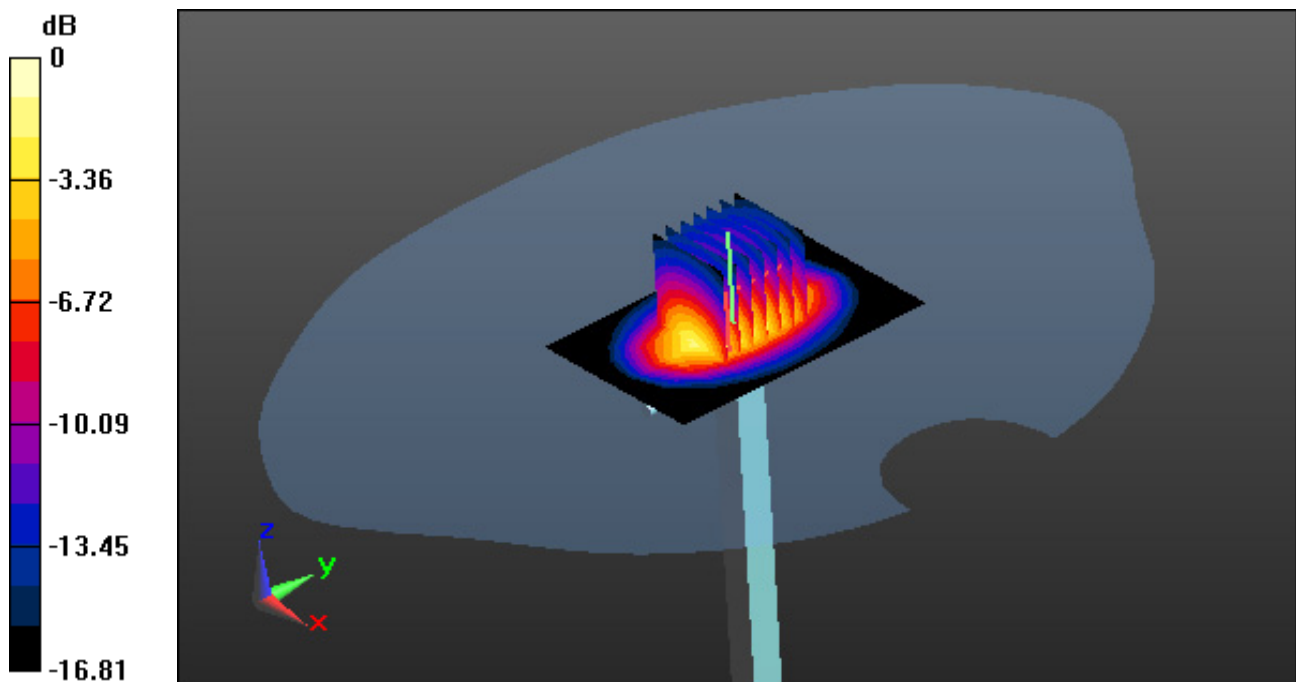
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = 0.03 dB

Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 4.25 W/kg; SAR(10 g) = 2.23 W/kg



0 dB = 5.96 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.551$ S/m; $\epsilon_r = 52.443$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.81, 4.81, 4.81); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-21; Ambient Temp: 20.6; Tissue Temp: 21.2

1900 MHz System Body Verification (100 mW)

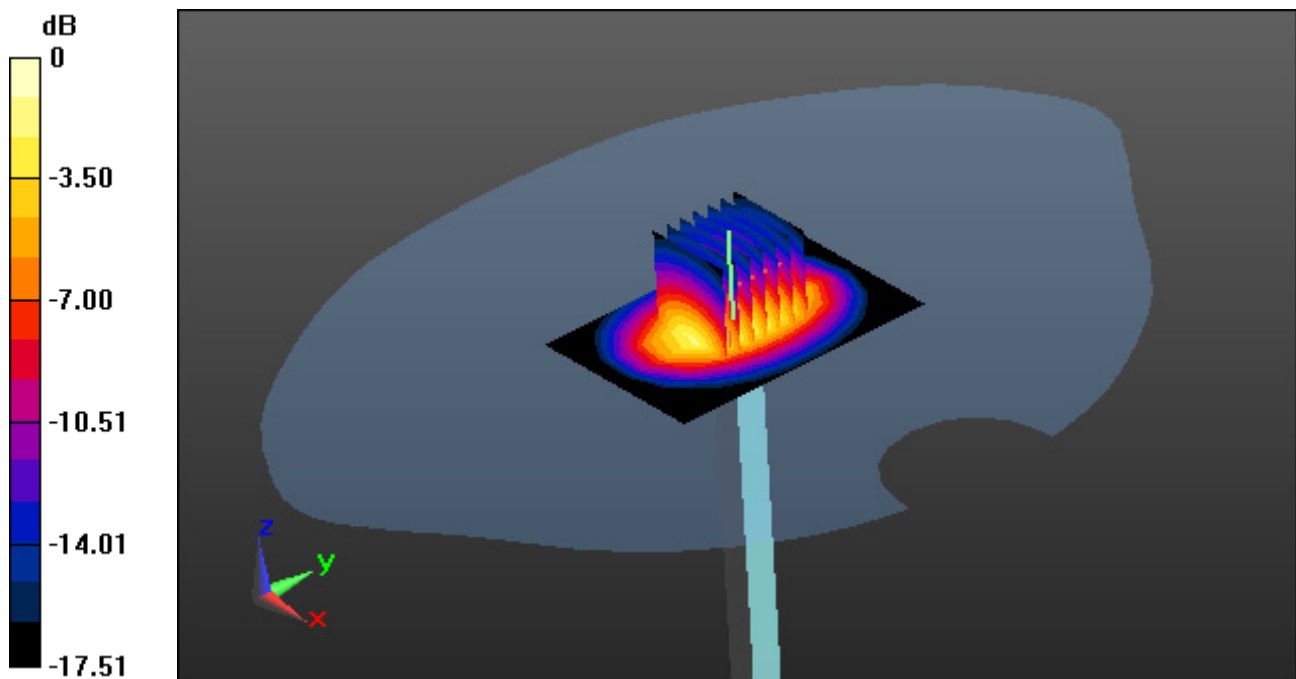
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 6.08 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.03 W/kg



0 dB = 4.51 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 39.954$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(5.1, 5.1, 5.1); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-23; Ambient Temp: 20.9; Tissue Temp: 21.4

1900 MHz System Head Verification (100 mW)

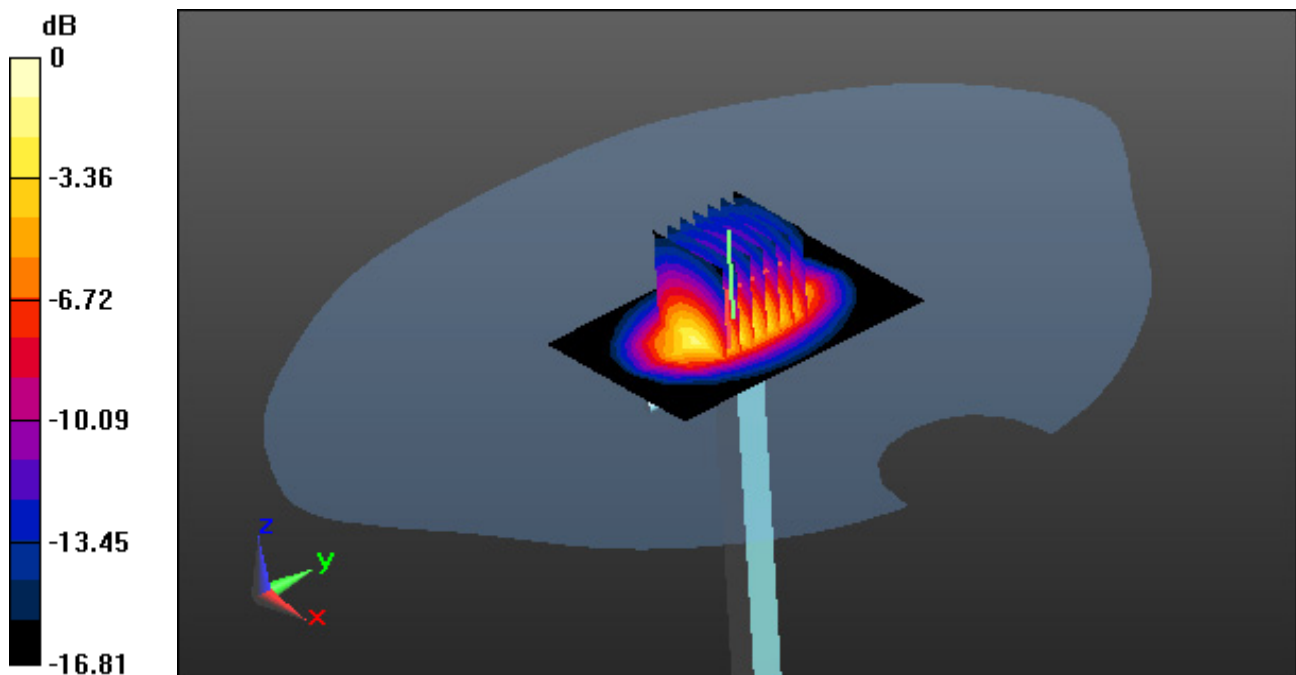
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 7.02 W/kg

SAR(1 g) = 4.13 W/kg; SAR(10 g) = 2.13 W/kg



0 dB = 5.88 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.548$ S/m; $\epsilon_r = 52.314$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.81, 4.81, 4.81); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335
Sensor-Surface: 3mm (Mechanical Surface Detection)
Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-23; Ambient Temp: 20.9; Tissue Temp: 21.2

1900 MHz System Body Verification (100 mW)

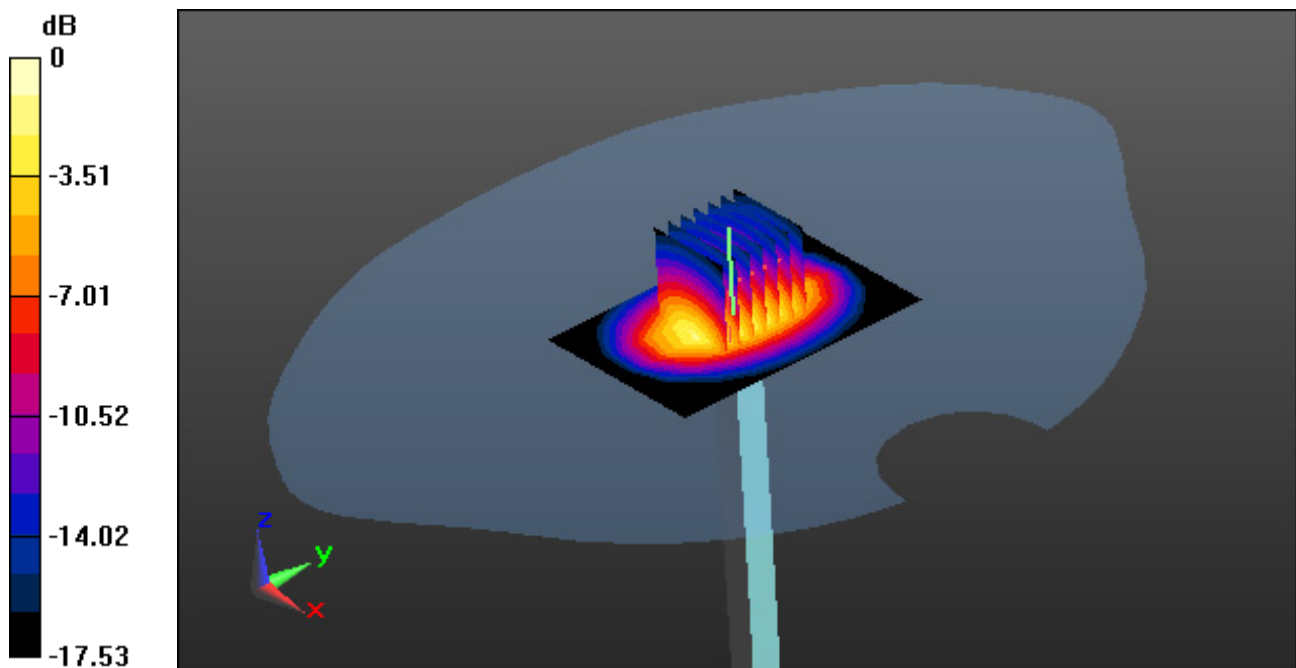
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = 0.05 dB

Peak SAR (extrapolated) = 5.64 W/kg

SAR(1 g) = 4.05 W/kg; SAR(10 g) = 2.13 W/kg



0 dB = 4.19 W/kg

DT&C Co., Ltd.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.855$ S/m; $\epsilon_r = 38.358$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.61, 7.61, 7.61); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (Mechanical Surface Detection)
Phantom: SAM with CRP_2016_07_22_middle; Type: QD000P40CD; Serial: TP:1786
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-14; Ambient Temp: 21.3; Tissue Temp: 21.6

2450 MHz System Head Verification (100 mW)

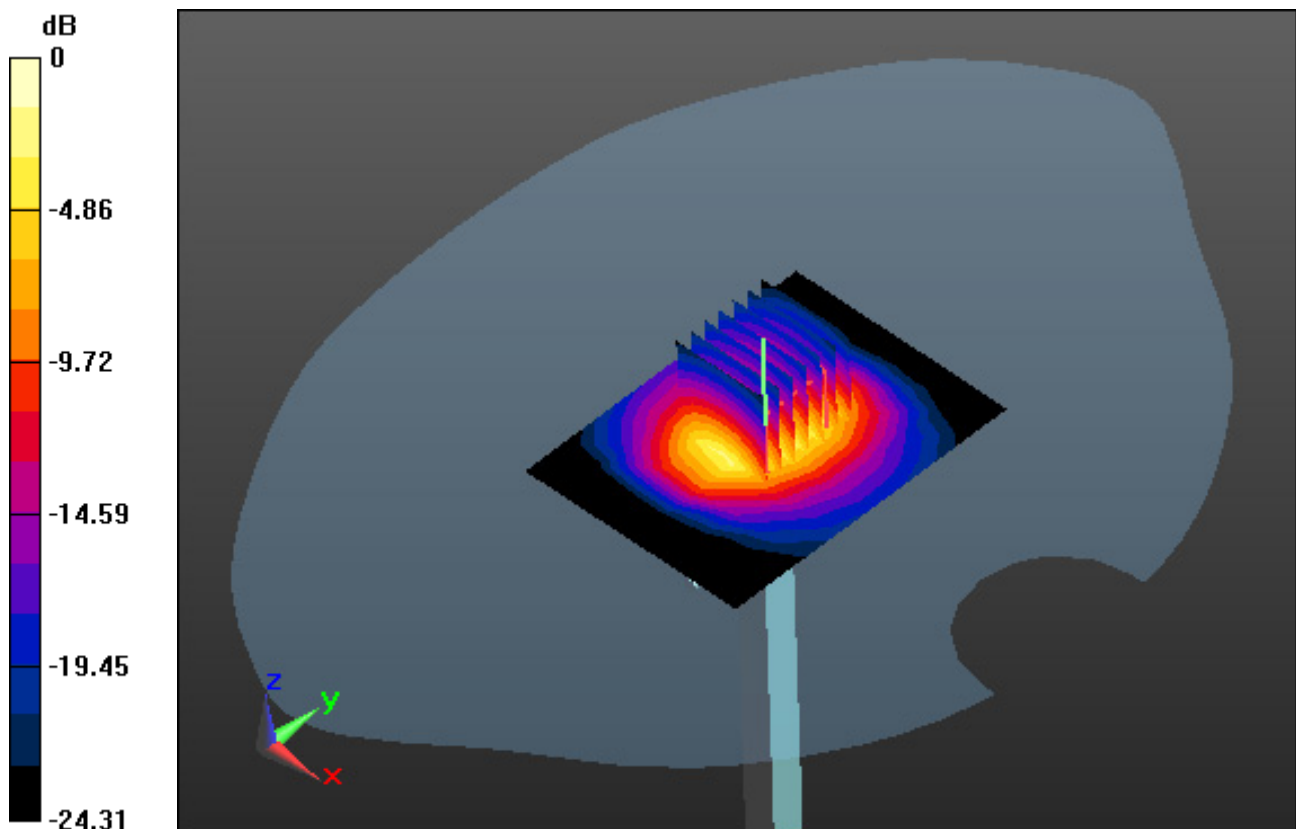
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = -0.13 dB

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.08 W/kg; SAR(10 g) = 2.38 W/kg



0 dB = 8.8 W/kg

DT&C Co., Ltd.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.96$ S/m; $\epsilon_r = 51.03$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.75, 7.75, 7.75); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (Mechanical Surface Detection)
Phantom: SAM with CRP_2016_07_22_middle; Type: QD000P40CD; Serial: TP:1786
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-14; Ambient Temp: 21.3; Tissue Temp: 21.5

2450 MHz System Body Verification (100 mW)

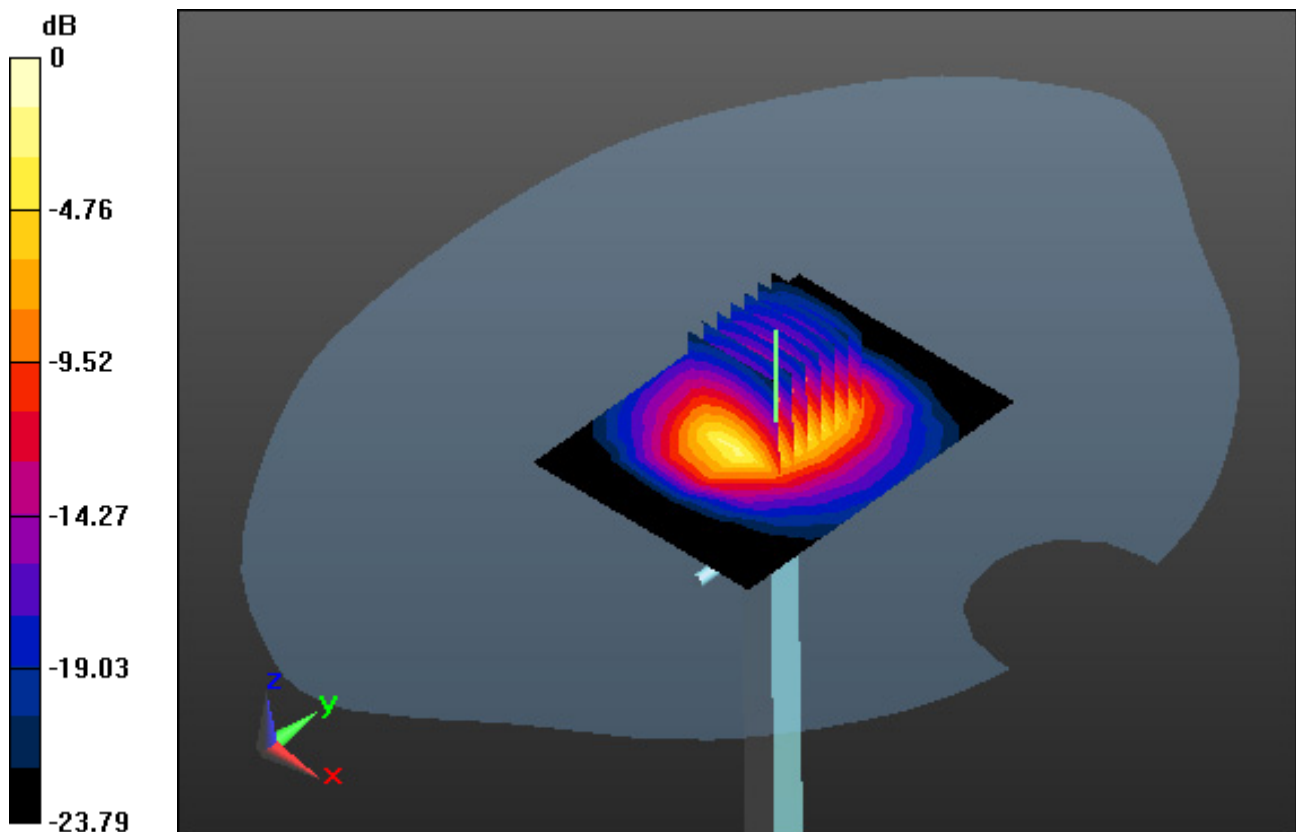
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = -0.11 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 5.41 W/kg; SAR(10 g) = 2.56 W/kg



DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, GSM 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 41.483$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.26, 6.26, 6.26); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.6

Right Touch, GSM850 Ch. 190, Ant Internal, Standard Battery

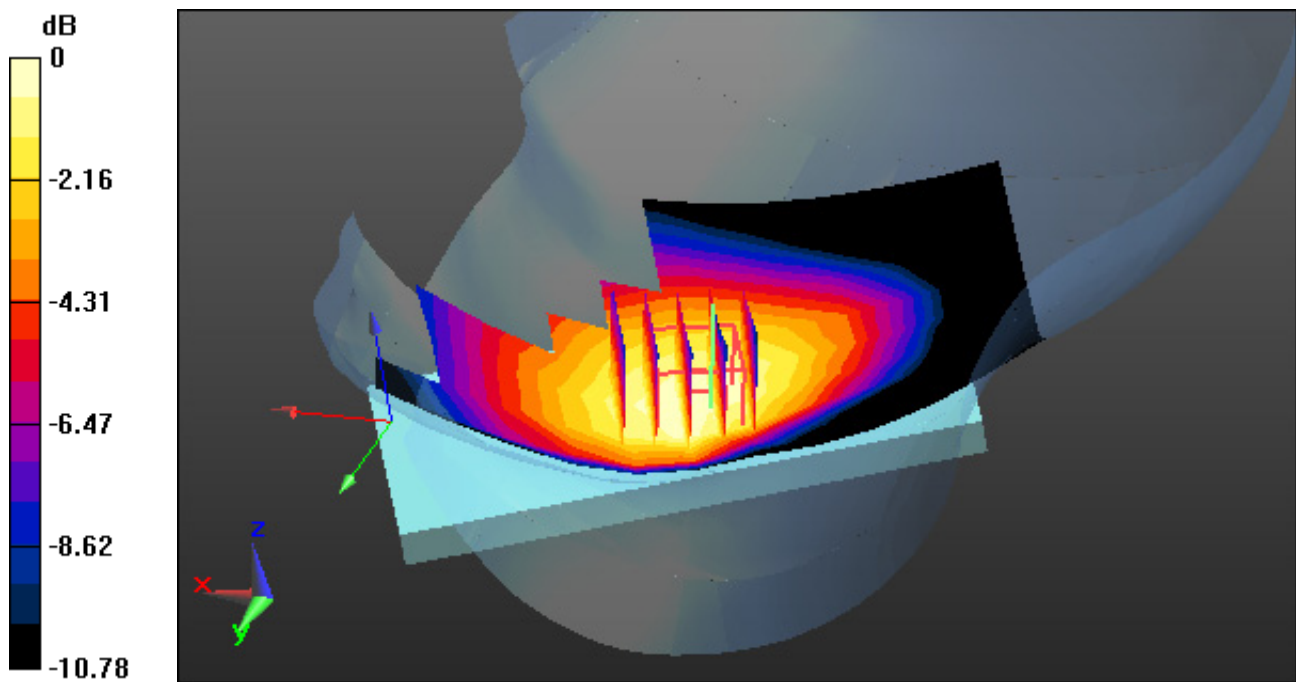
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

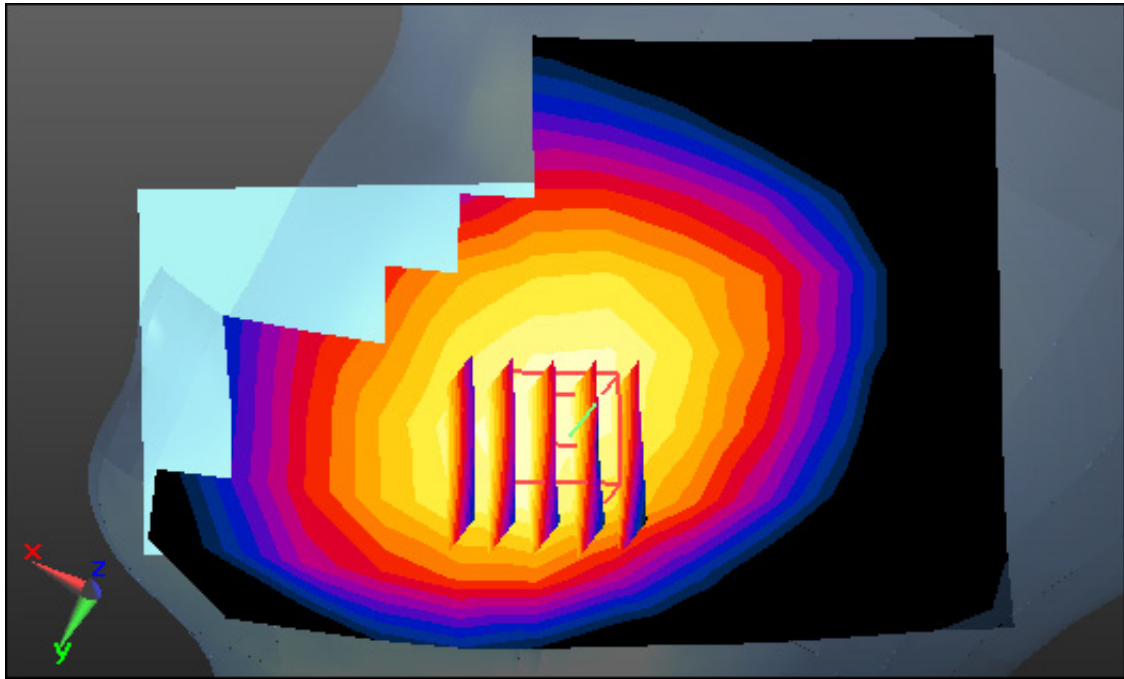
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.419 W/kg

SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.246 W/kg





Enlarged Plot for A1

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, GSM 850_4 Tx (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 41.483$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.26, 6.26, 6.26); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.6

Right Touch, GSM850 GPRS 4Tx Ch. 190, Ant Internal, Standard Battery

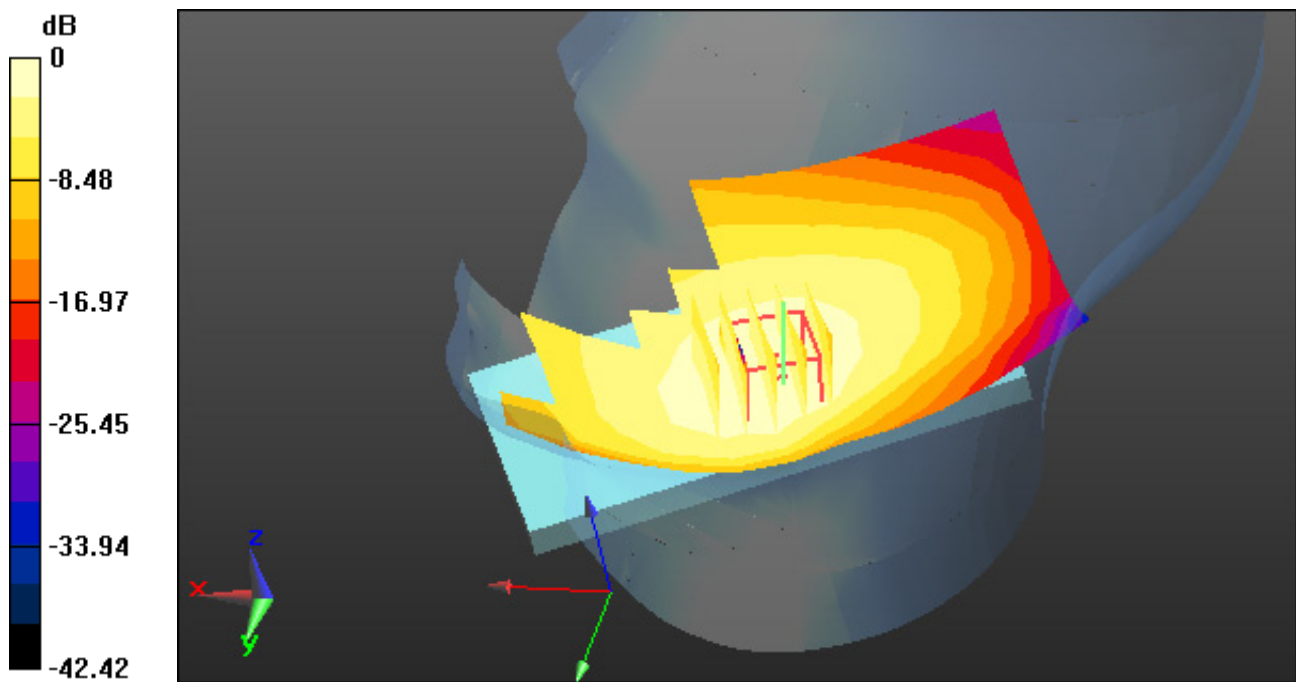
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

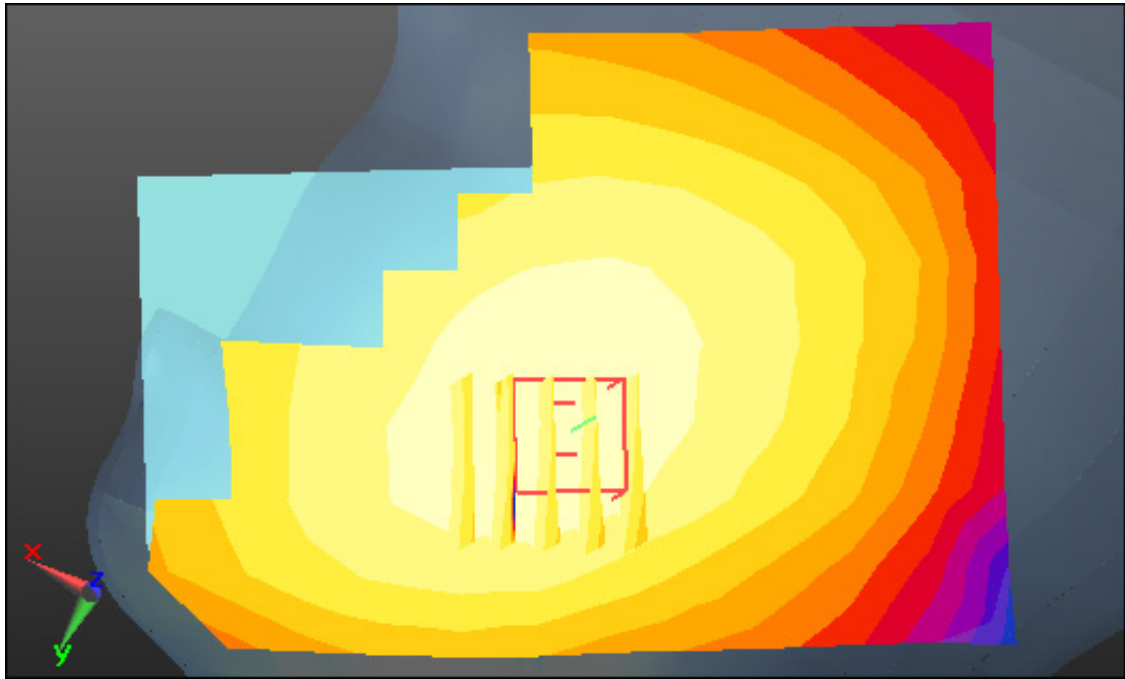
Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.271 W/kg



0 dB = 0.410 W/kg



Enlarged Plot for A2

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, PCS 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 39.806$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(5.1, 5.1, 5.1); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-21; Ambient Temp: 20.6; Tissue Temp: 21.3

Left Touch, PCS1900 Ch. 661, Ant Internal, Standard Battery

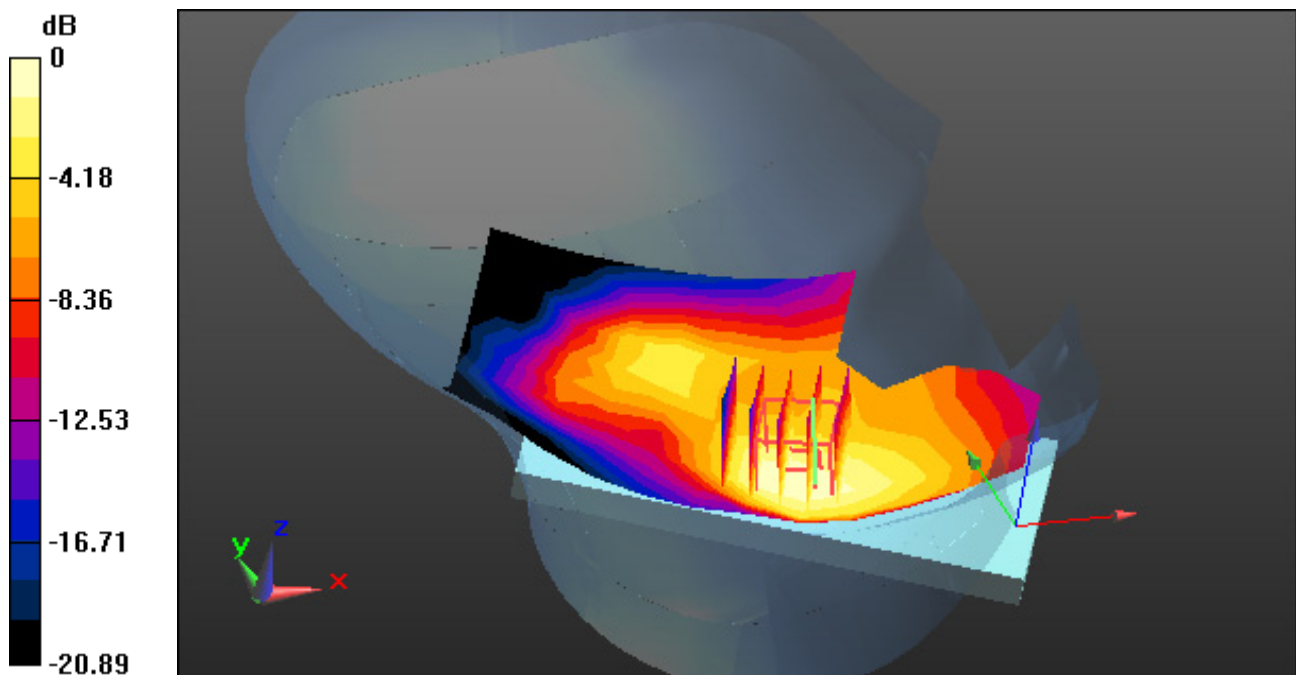
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

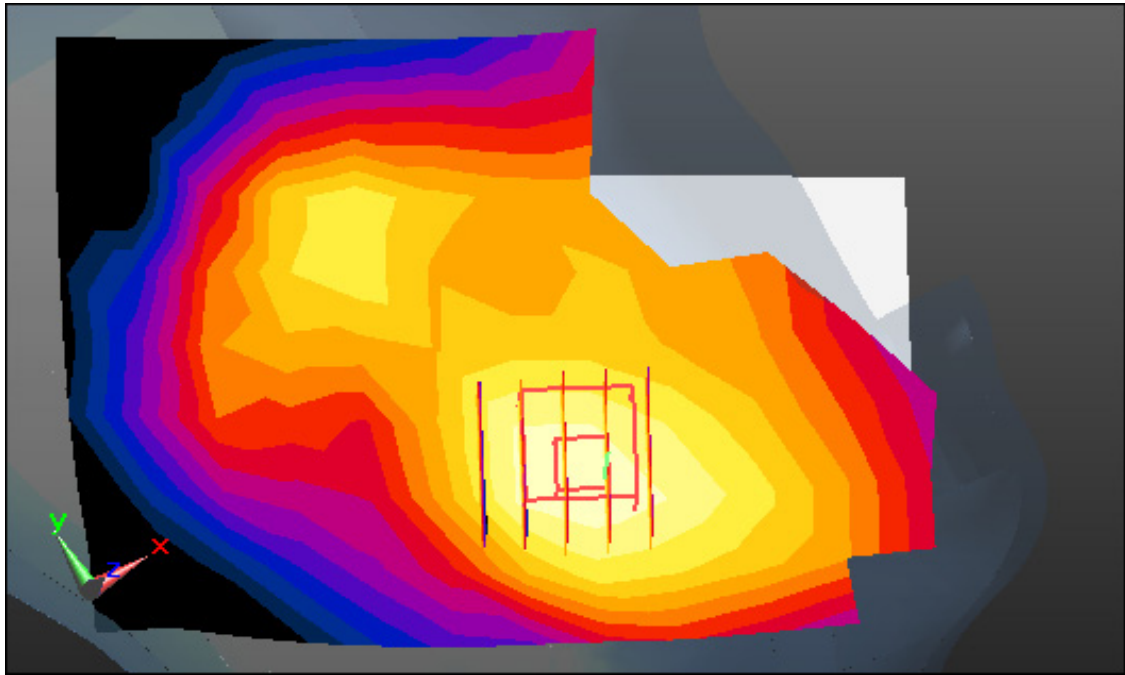
Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.422 W/kg

SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.176 W/kg



0 dB = 0.327 W/kg



Enlarged Plot for A3

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, PCS1900_4 Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 39.806$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(5.1, 5.1, 5.1); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-21; Ambient Temp: 20.6; Tissue Temp: 21.3

Left Touch, PCS1900 GPRS 4Tx Ch. 661, Ant Internal, Standard Battery

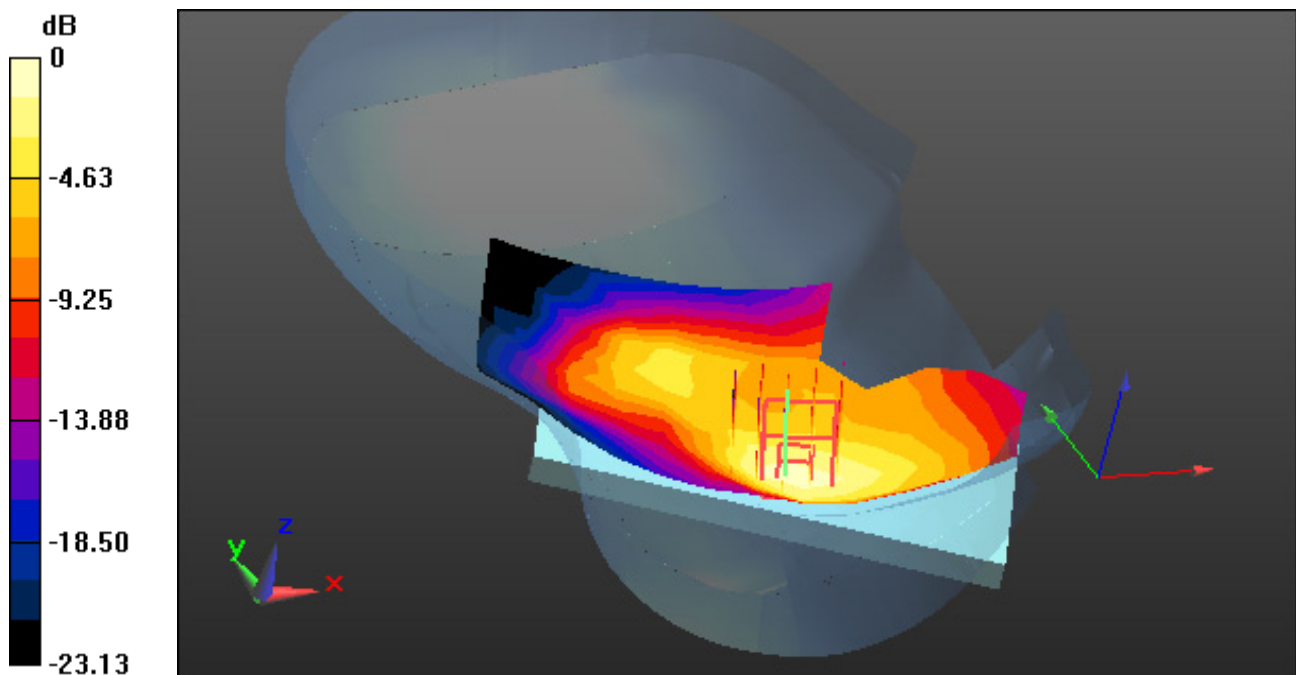
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

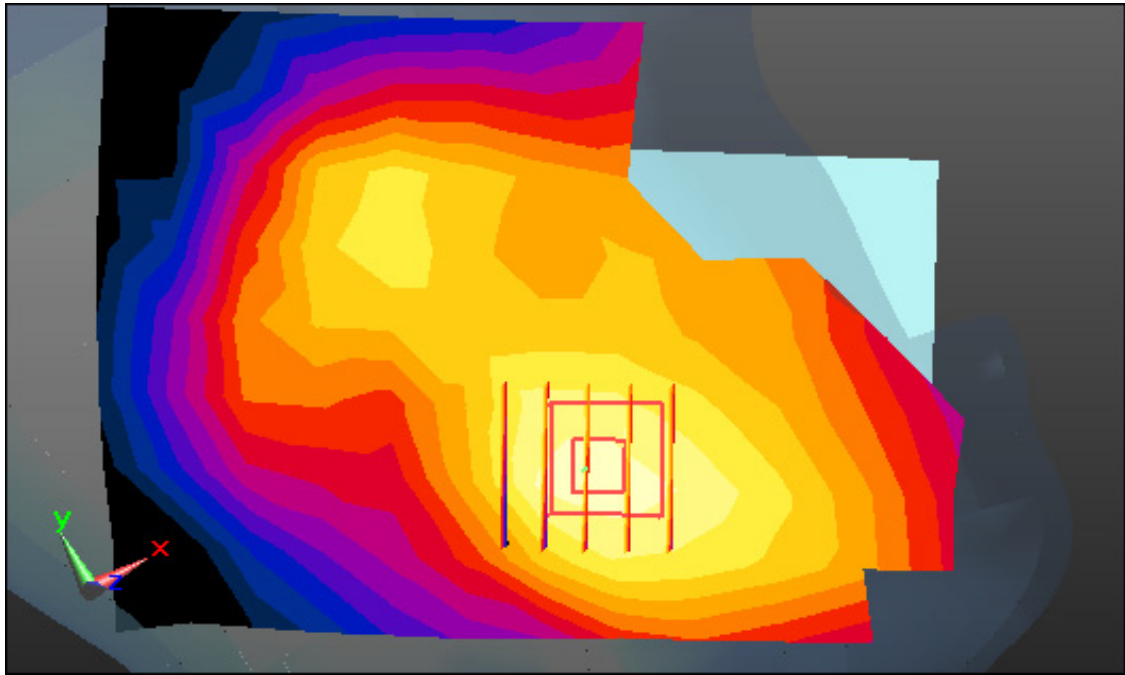
Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.186 W/kg



0 dB = 0.350 W/kg



Enlarged Plot for A4

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.403$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.26, 6.26, 6.26); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-22; Ambient Temp: 21.0; Tissue Temp: 21.5

Right Touch, WCDMA850 Ch. 4183, Ant Internal, Standard Battery

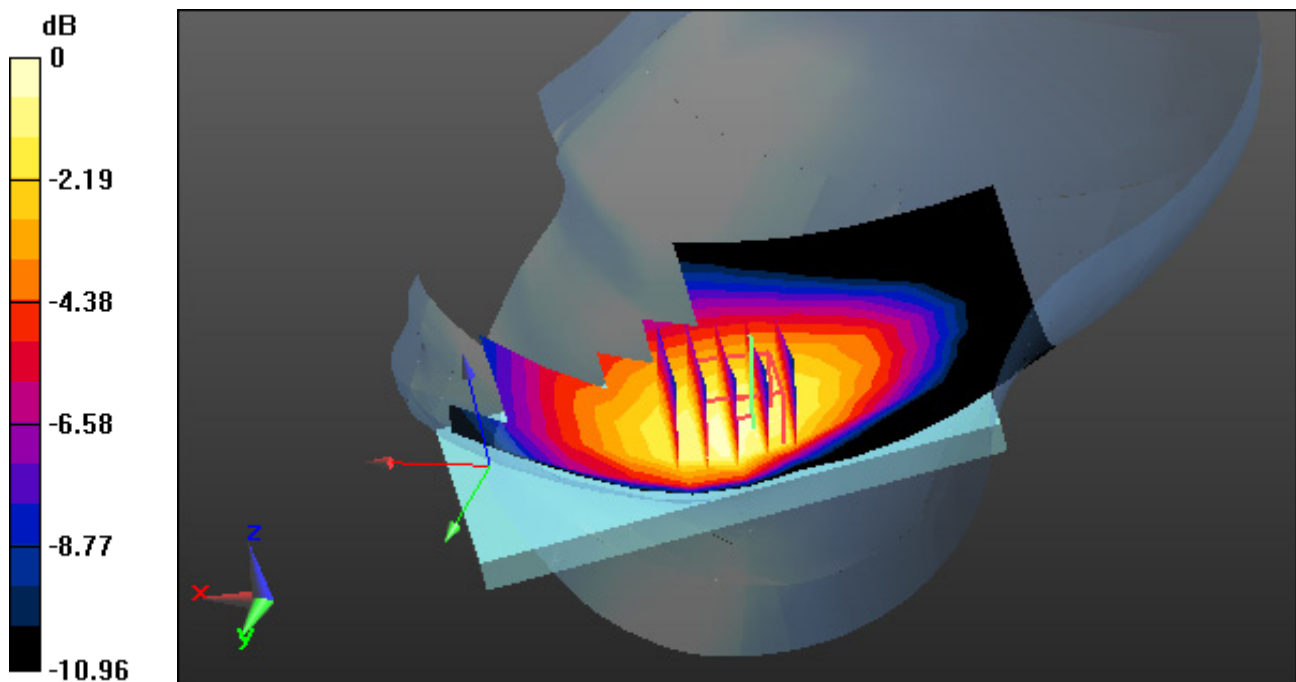
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

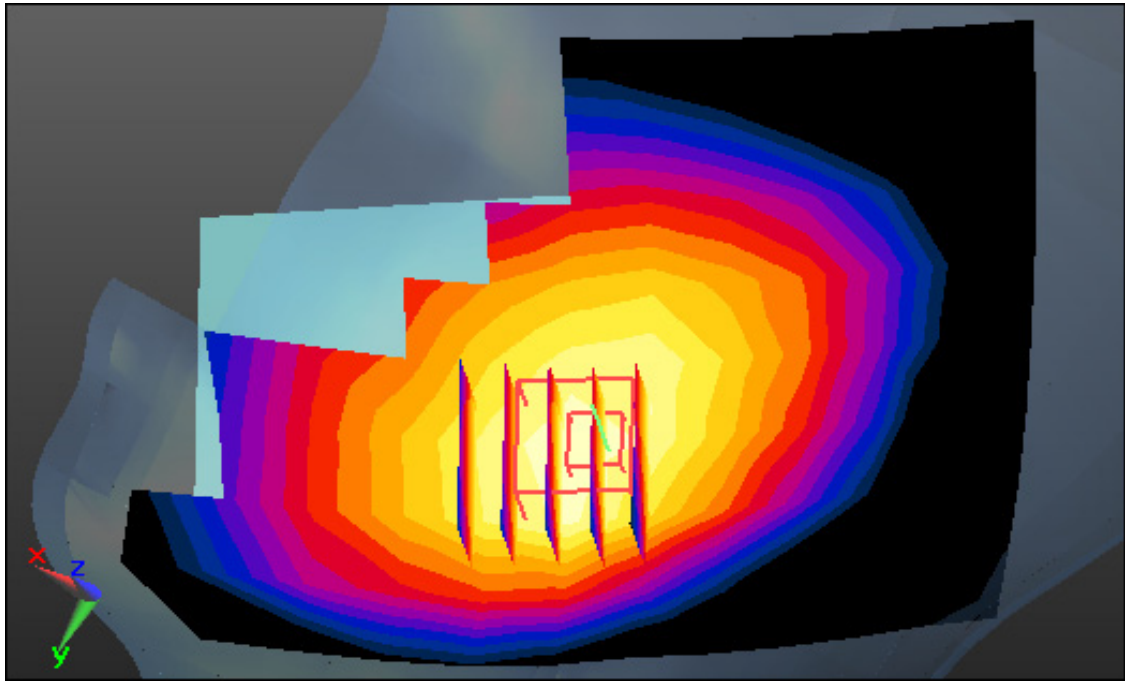
Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.417 W/kg



0 dB = 0.626 W/kg



Enlarged Plot for A5

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 40.043$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(5.1, 5.1, 5.1); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-23; Ambient Temp: 20.9; Tissue Temp: 21.4

Left Touch, WCDMA1900 Ch. 9400, Ant Internal, Standard Battery

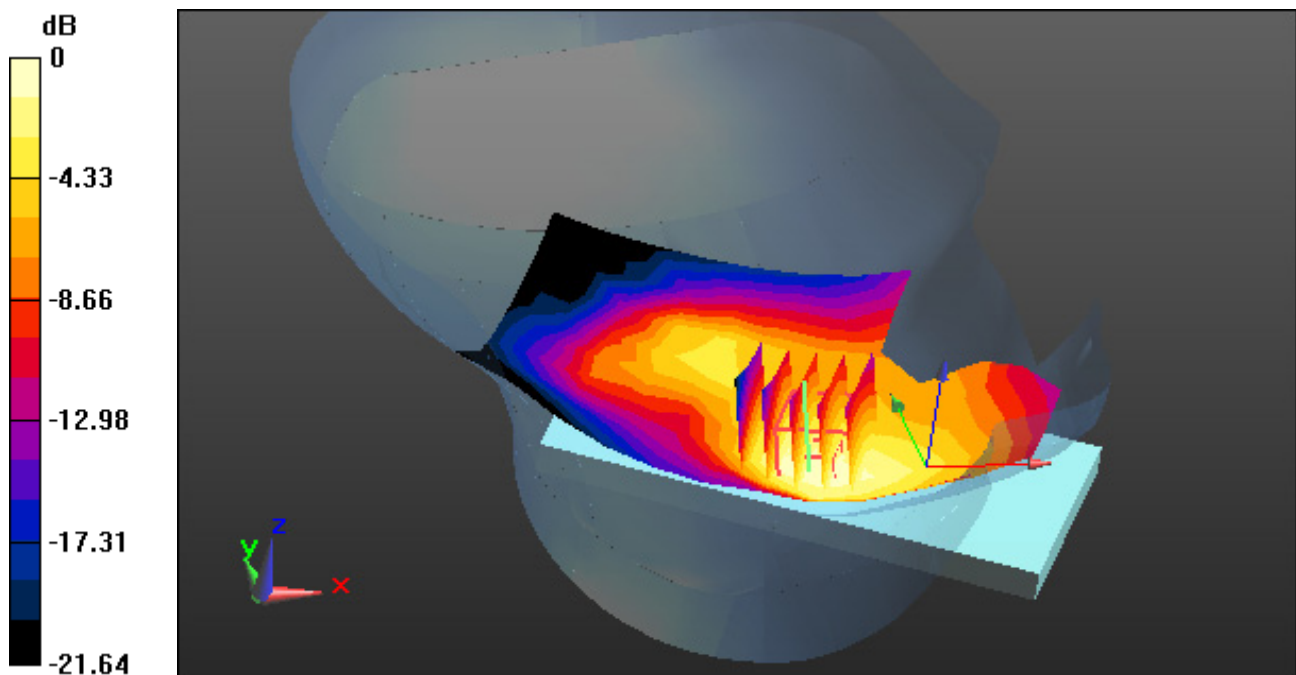
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

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

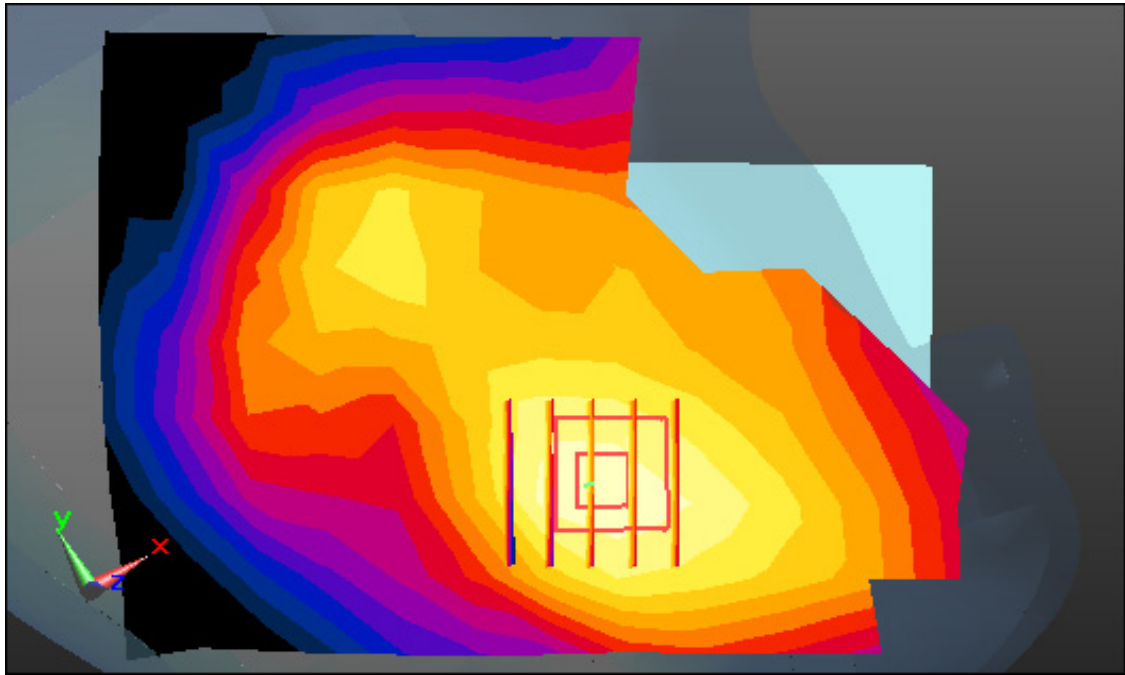
Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.432 W/kg



0 dB = 0.798 W/kg



Enlarged Plot for A6

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 38.325$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.61, 7.61, 7.61); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP_2016_07_22_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-14; Ambient Temp: 21.3; Tissue Temp: 21.6

Left Touch, WLAN(802.11b) Ch. 11, Ant Internal, Standard Battery

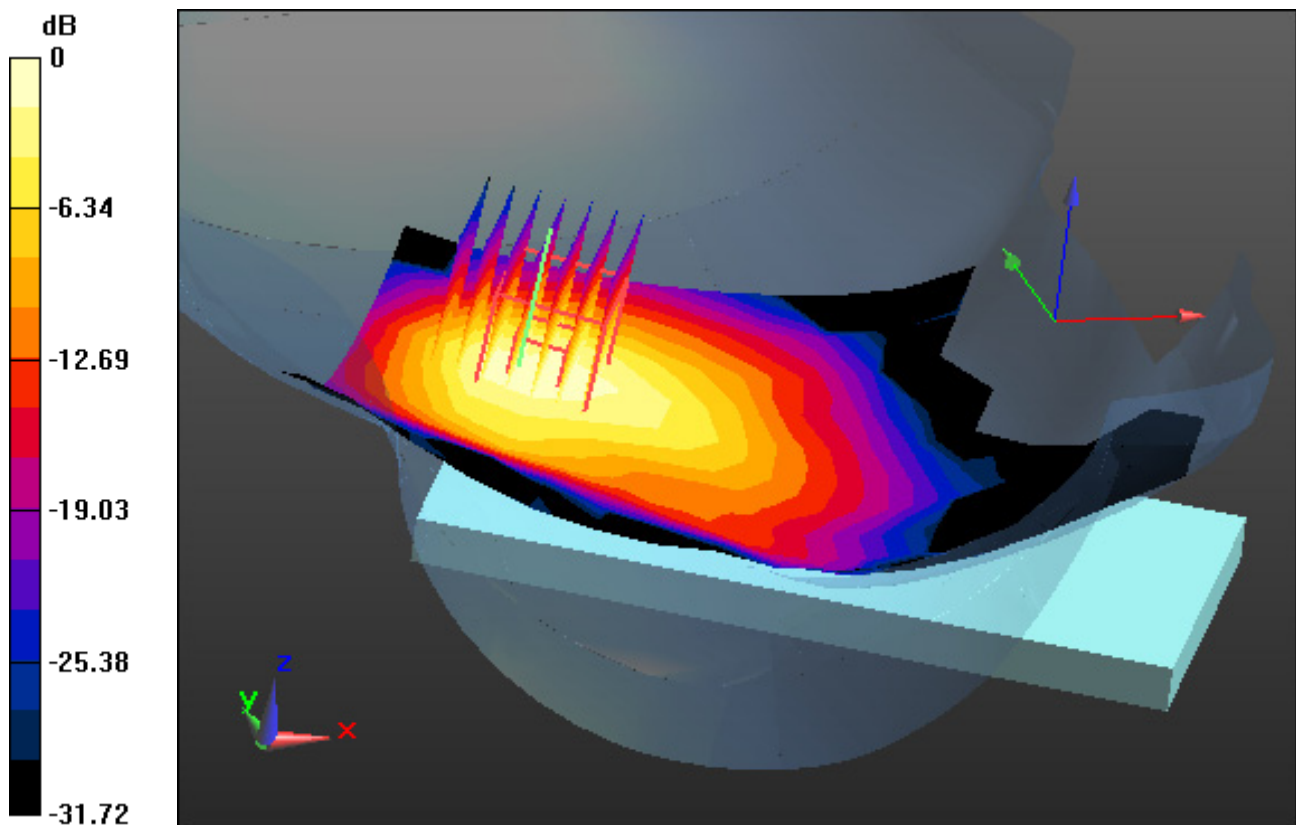
Area Scan (11x17x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

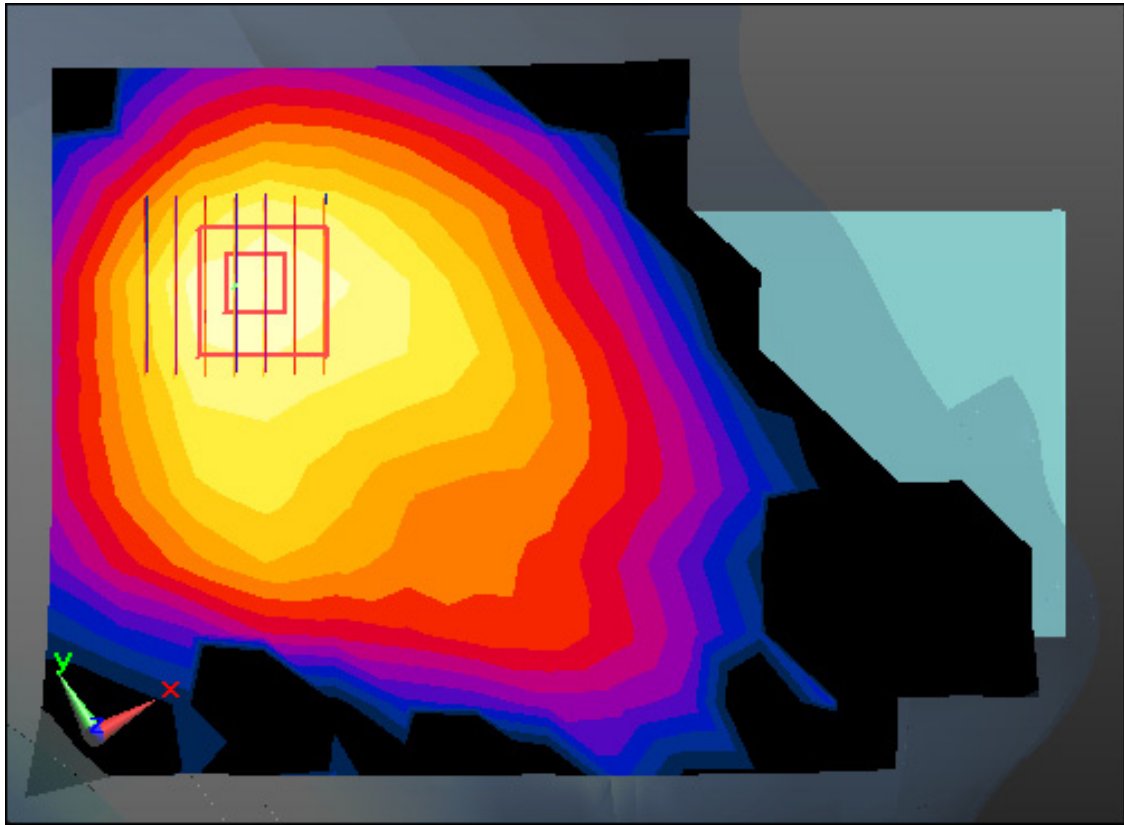
Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.320 W/kg



0 dB = 1.00 W/kg



Enlarged Plot for A7

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 38.386$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.61, 7.61, 7.61); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP_2016_07_22_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-14; Ambient Temp: 21.3; Tissue Temp: 21.6

Left Touch, Bluetooth BDR 1M Ch. 39, Ant Internal, Standard Battery

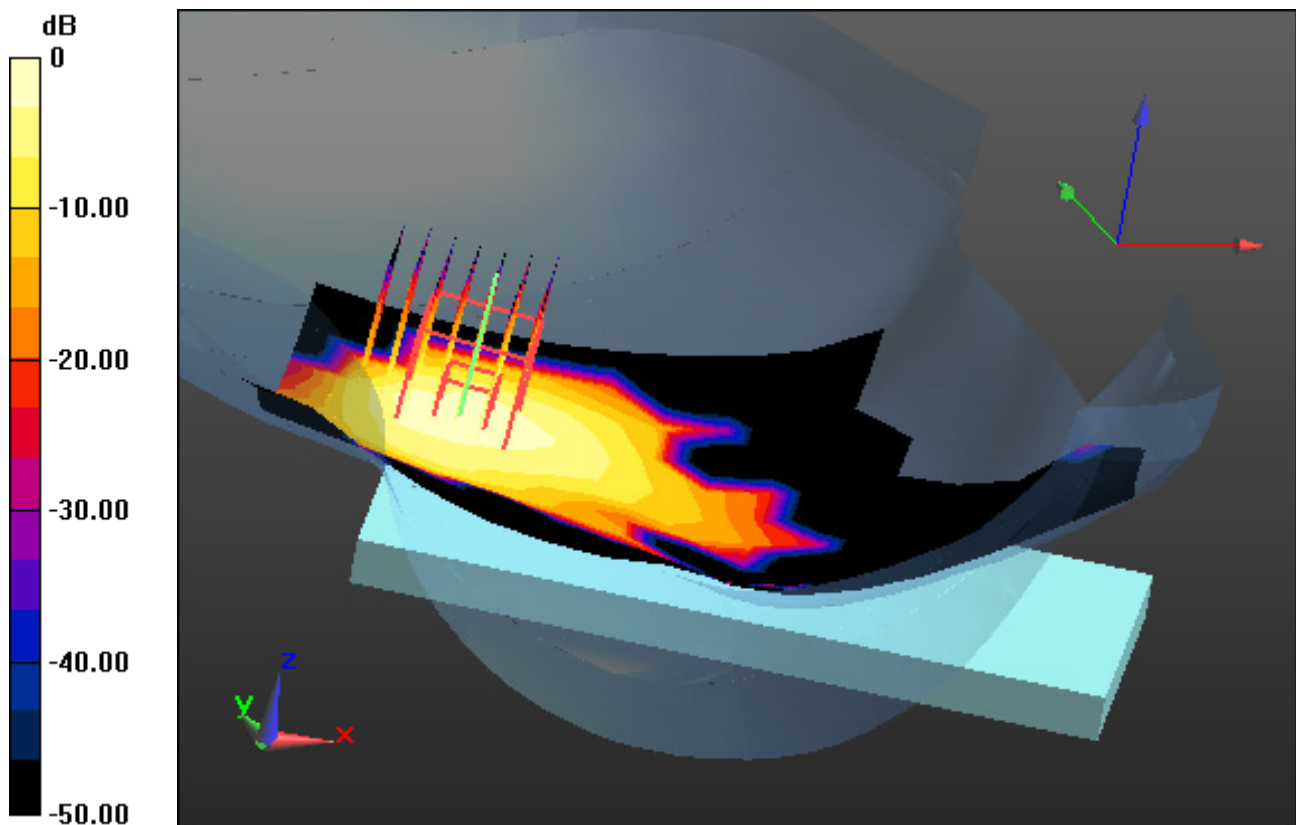
Area Scan (11x17x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

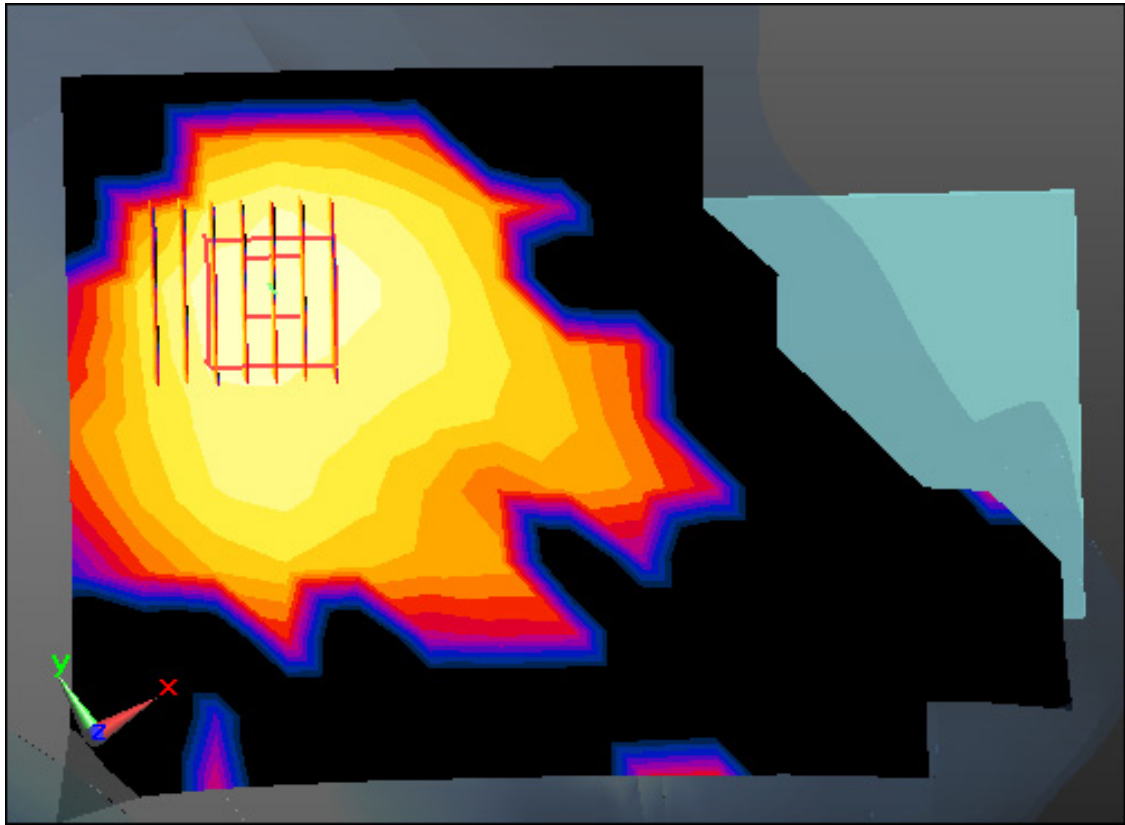
Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.044 W/kg



0 dB = 0.150 W/kg



Enlarged Plot for A8

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, GSM 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.974 \text{ S/m}$; $\epsilon_r = 54.95$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.5

1cm space from Body, Rear, GSM850 Ch. 190, Ant Internal

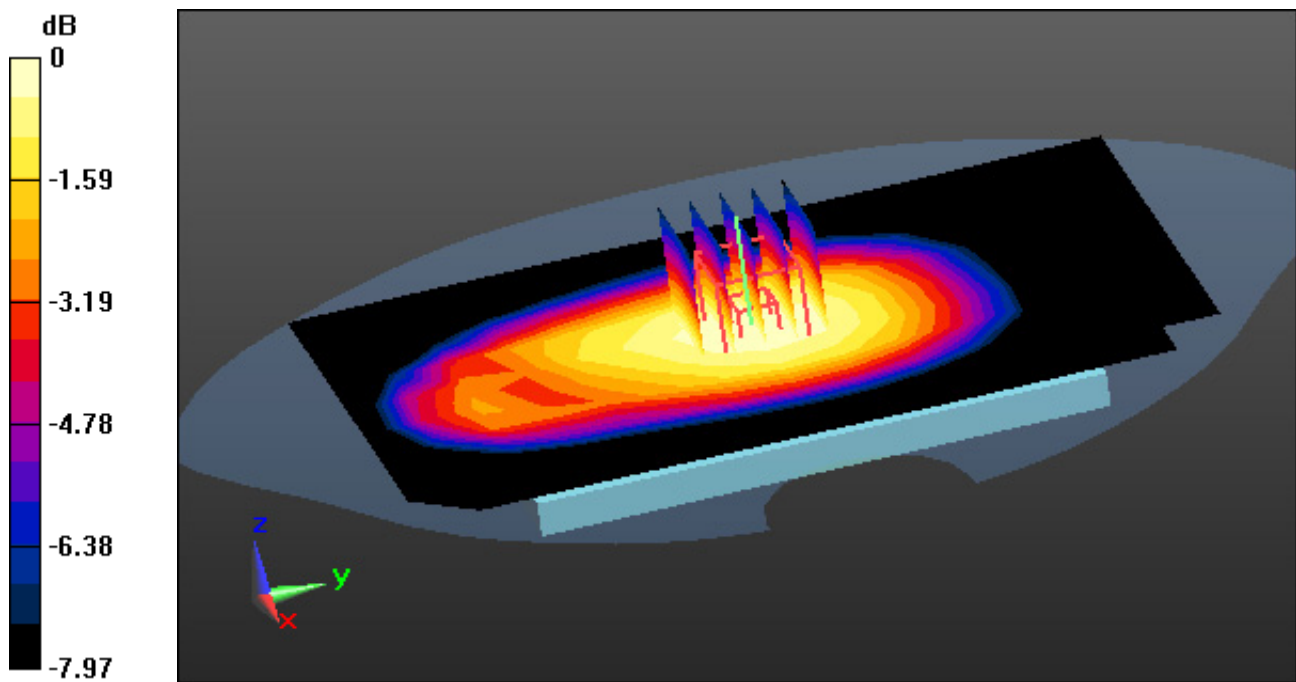
Area Scan (10x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

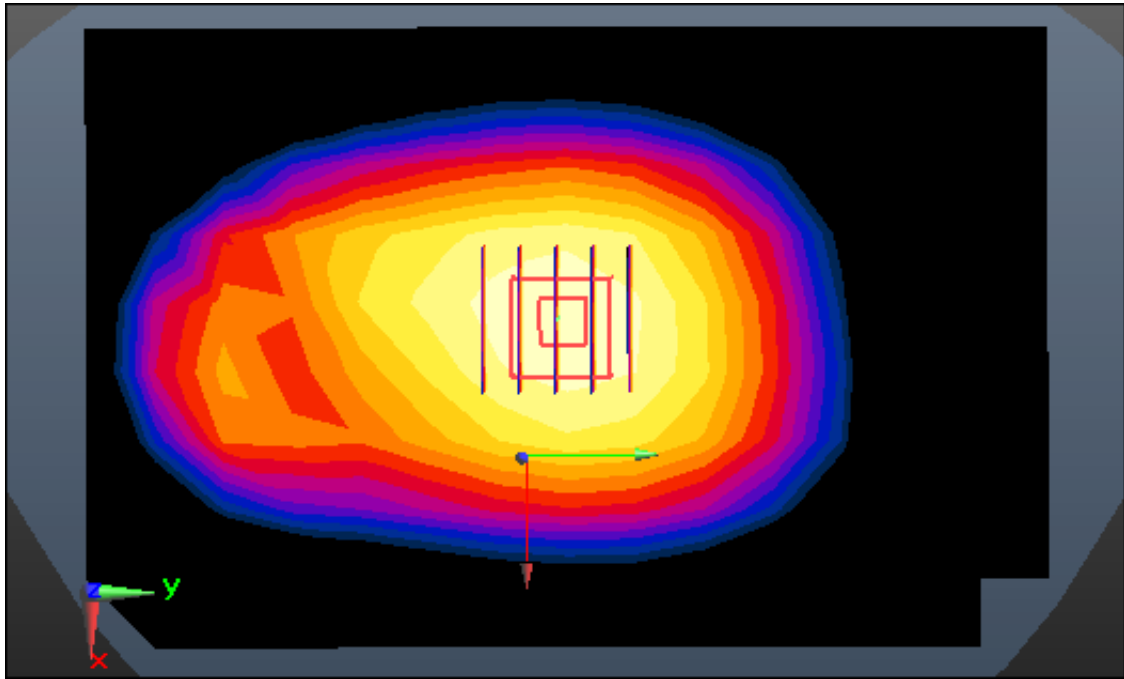
Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.377 W/kg



0 dB = 0.538 W/kg



Enlarged Plot for A9

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, GSM 850_4 Tx (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.974 \text{ S/m}$; $\epsilon_r = 54.95$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.5

1cm space from Body, Rear, GSM850 GPRS 4Tx Ch. 190, Ant Internal

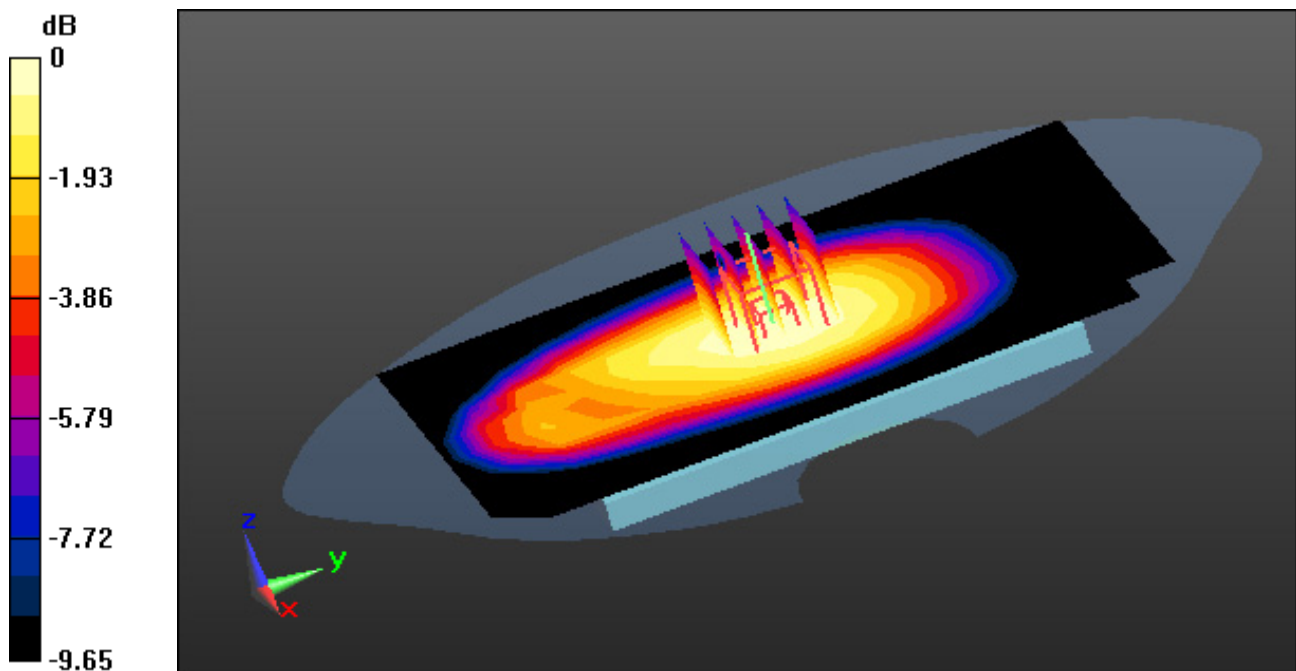
Area Scan (10x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

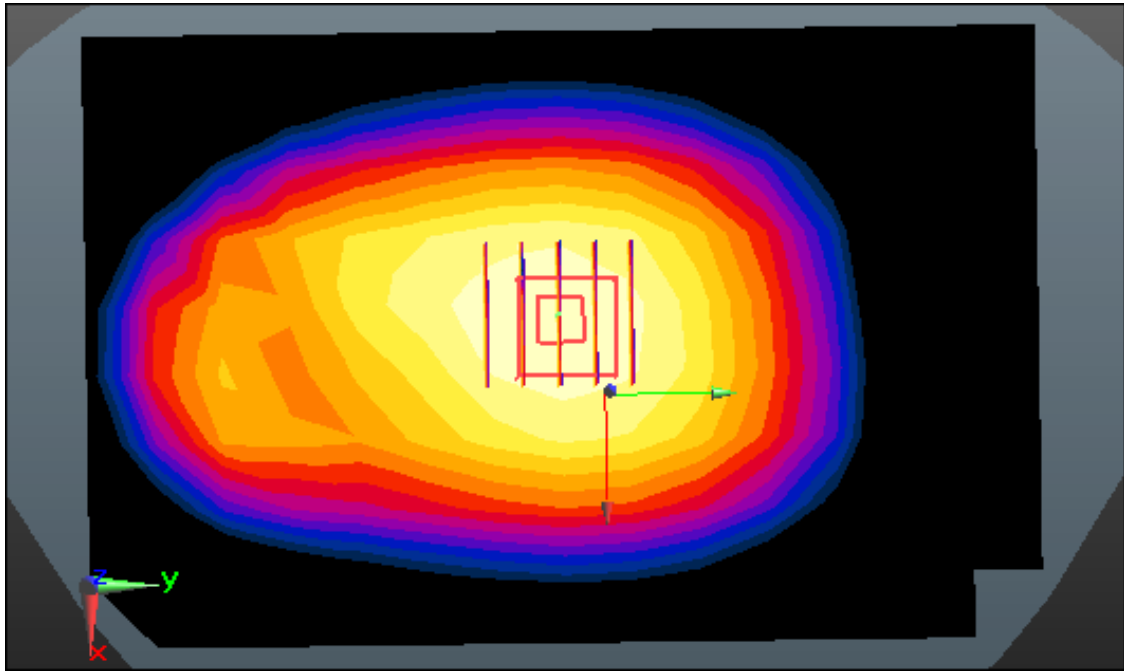
Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.388 W/kg



0 dB = 0.550 W/kg



Enlarged Plot for A10

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, PCS 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.535$ S/m; $\epsilon_r = 52.541$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.81, 4.81, 4.81); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-21; Ambient Temp: 20.6; Tissue Temp: 21.2

1cm space from Body, Rear, PCS1900 Ch. 661, Ant Internal

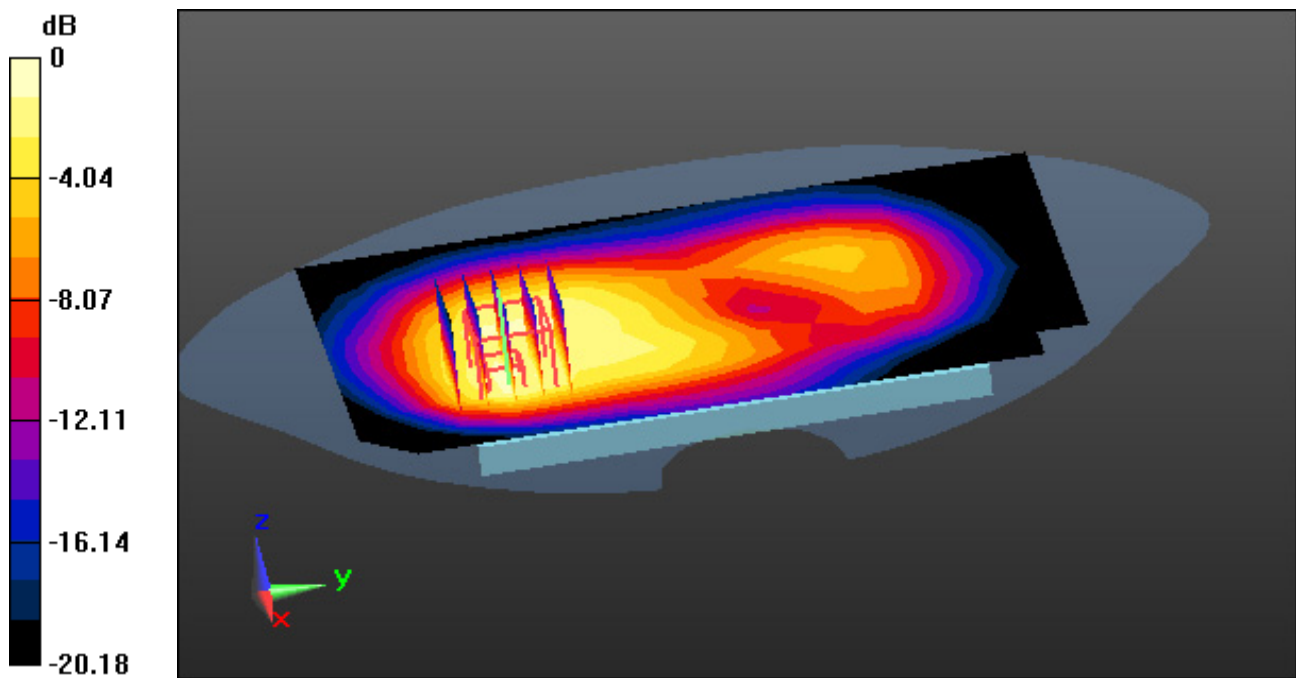
Area Scan (10x15x1): Measurement grid: dx=15mm, dy=15mm

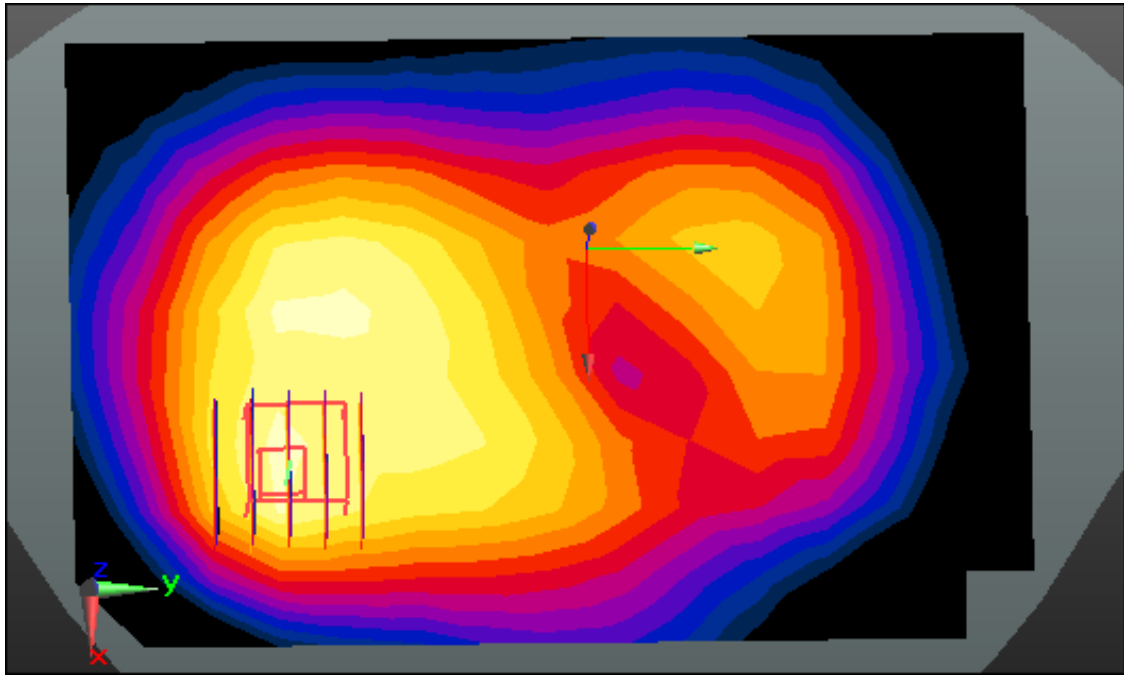
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.981 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.276 W/kg





Enlarged Plot for A11

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, PCS1900_4 Tx (0); Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.535 \text{ S/m}$; $\epsilon_r = 52.541$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.81, 4.81, 4.81); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-21; Ambient Temp: 20.6; Tissue Temp: 21.2

1cm space from Body, Rear, PCS1900 GPRS 4Tx Ch. 661, Ant Internal

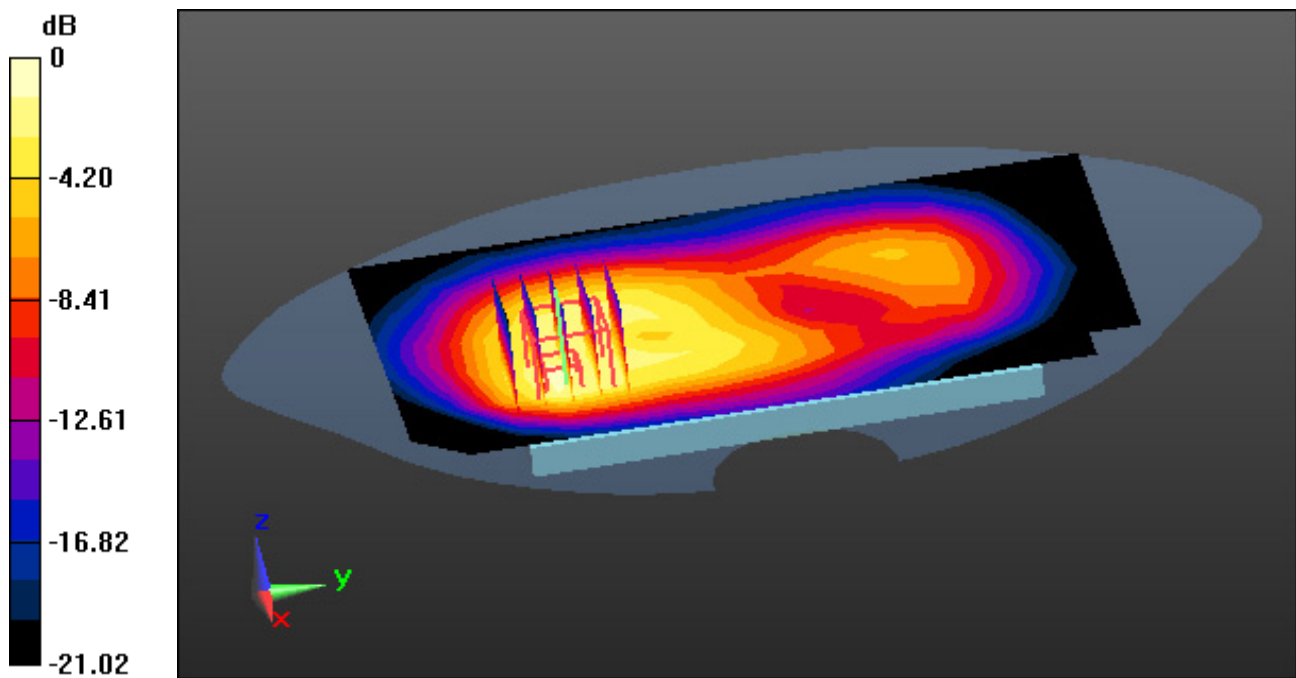
Area Scan (10x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

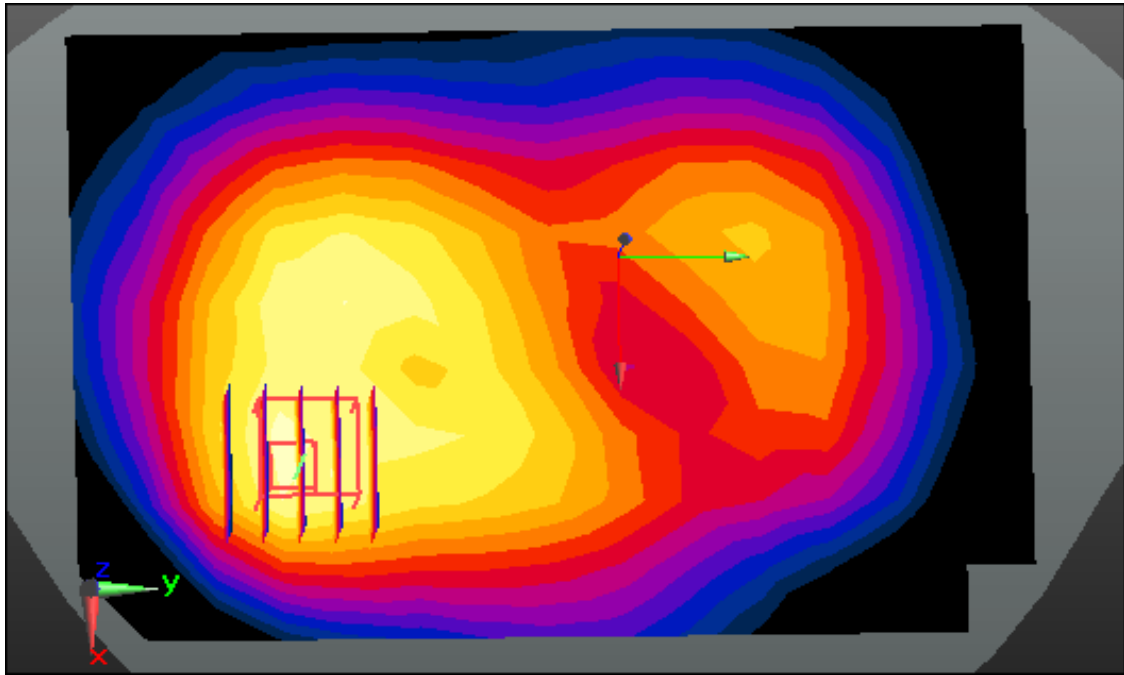
Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.303 W/kg



0 dB = 0.732 W/kg



Enlarged Plot for A12

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.973$ S/m; $\epsilon_r = 54.949$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-22; Ambient Temp: 21.0; Tissue Temp: 21.3

1cm space from Body, Rear, WCDMA850 Ch. 4183, Ant Internal

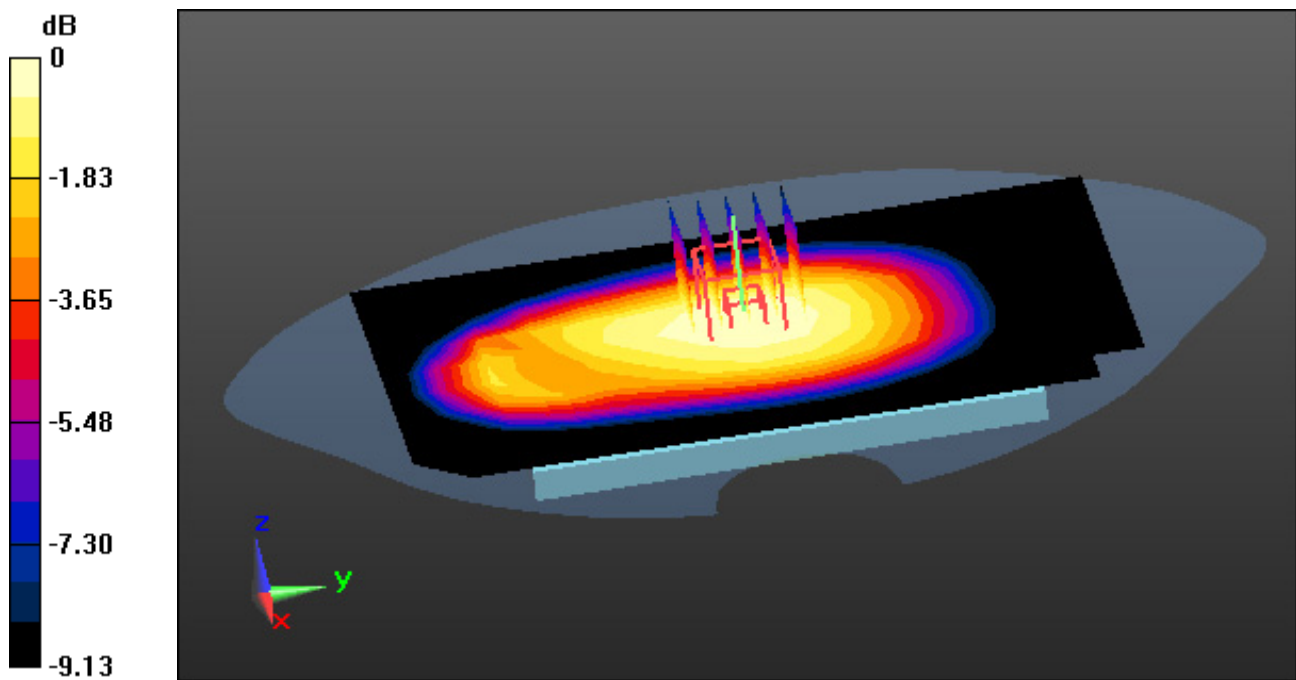
Area Scan (10x15x1): Measurement grid: dx=15mm, dy=15mm

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

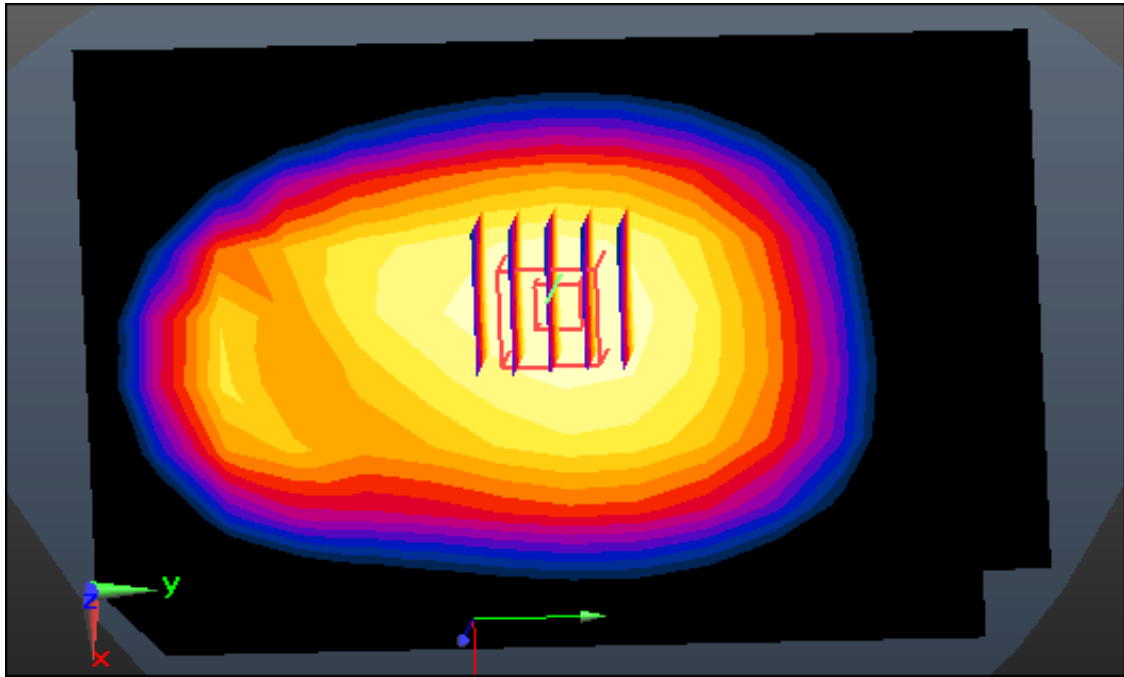
Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.739 W/kg; SAR(10 g) = 0.564 W/kg



0 dB = 0.809 W/kg



Enlarged Plot for A13

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.533$ S/m; $\epsilon_r = 52.397$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.81, 4.81, 4.81); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-23; Ambient Temp: 20.9; Tissue Temp: 21.2

1cm space from Body, Rear, WCDMA1900 Ch. 9400, Ant Internal

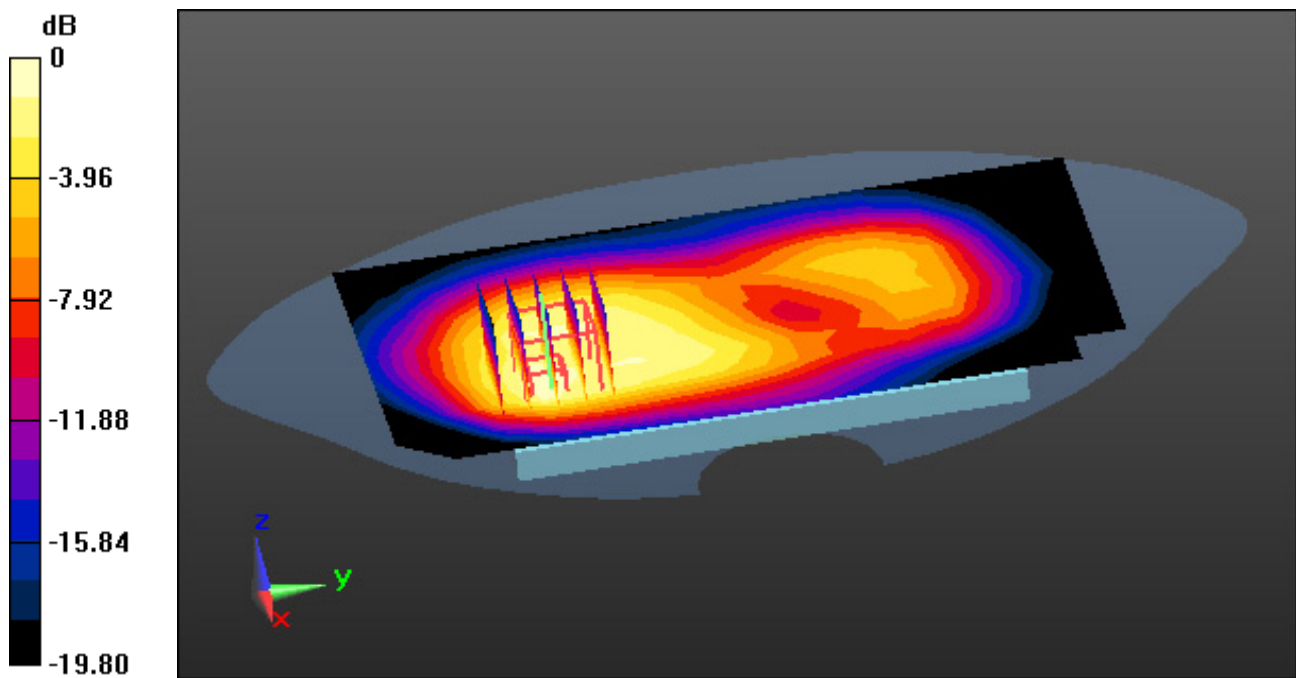
Area Scan (10x15x1): Measurement grid: dx=15mm, dy=15mm

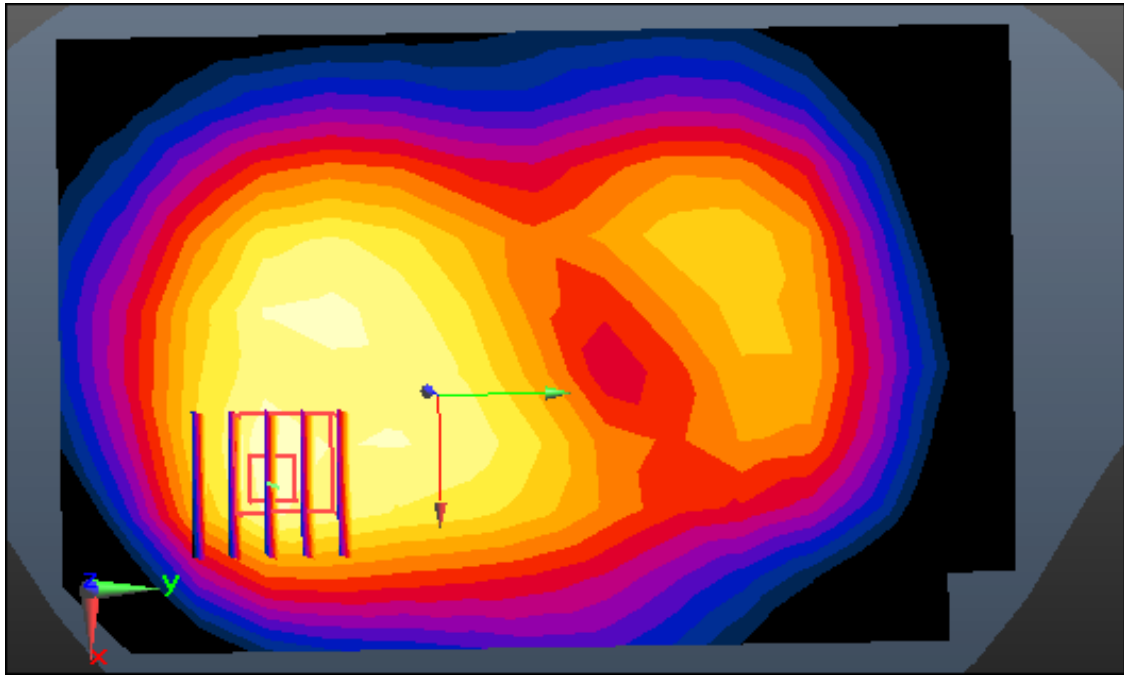
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.995 W/kg; SAR(10 g) = 0.549 W/kg





Enlarged Plot for A14

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.974 \text{ S/m}$; $\epsilon_r = 51.005$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.75, 7.75, 7.75); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP_2016_07_22_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-14; Ambient Temp: 21.3; Tissue Temp: 21.5

1 cm space from Body, Rear, WLAN(802.11b) Ch. 11, Ant Internal

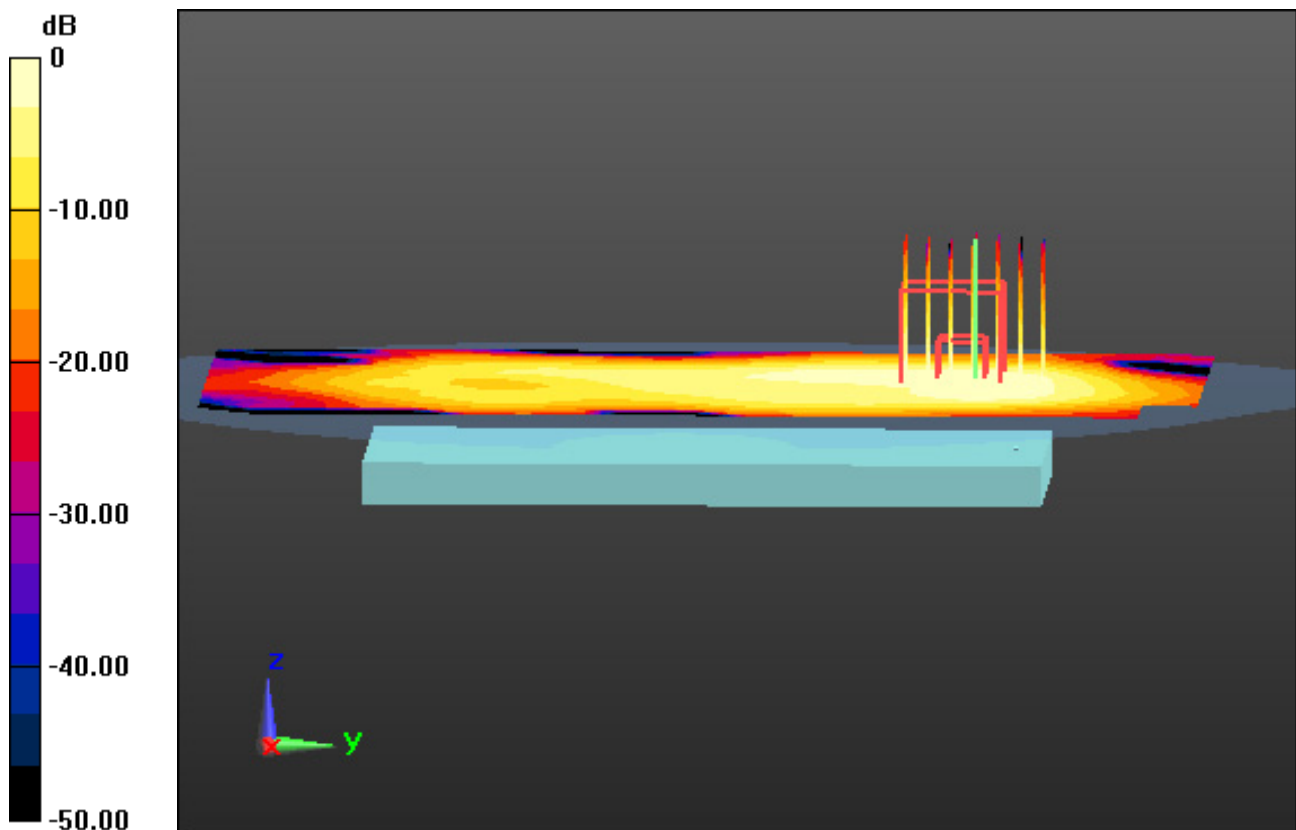
Area Scan (12x19x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

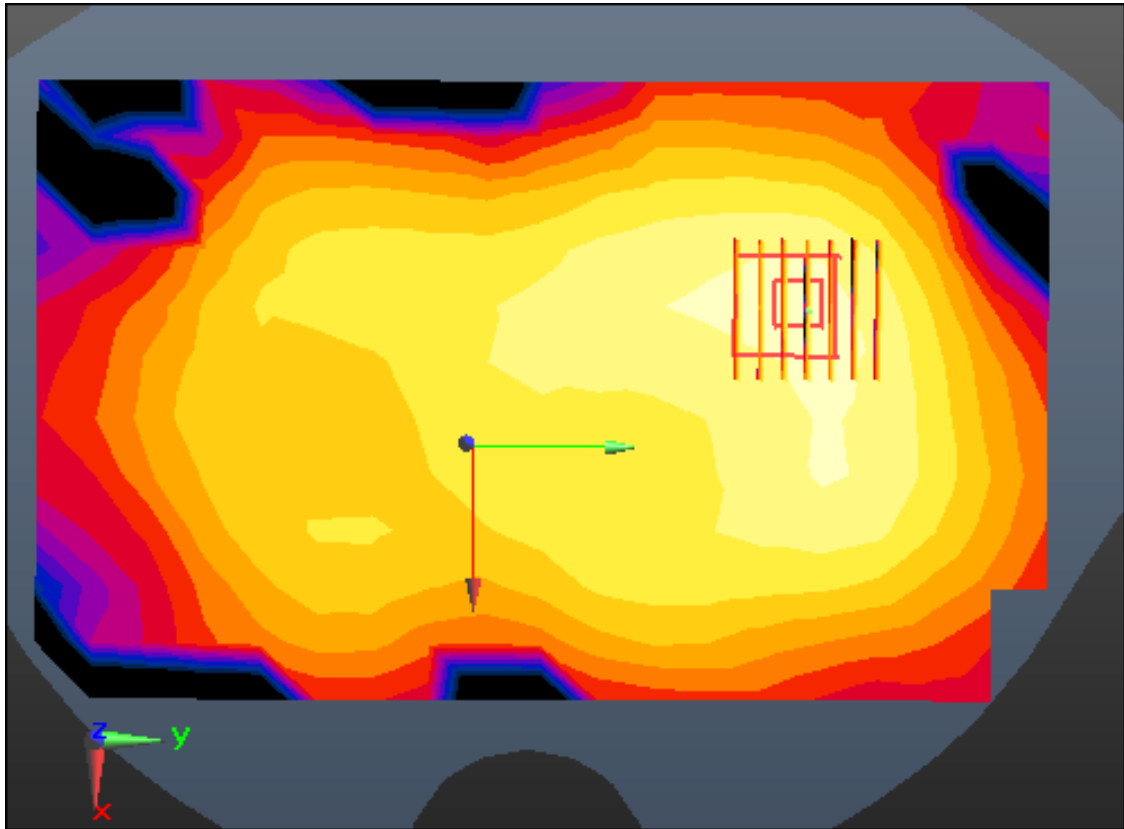
Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.105 W/kg



0 dB = 0.297 W/kg



Enlarged Plot for A15

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used: $f = 2441 \text{ MHz}$; $\sigma = 1.949 \text{ S/m}$; $\epsilon_r = 51.051$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.75, 7.75, 7.75); Calibrated: 9/25/2018; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (Mechanical Surface Detection)

Phantom: SAM with CRP_2016_07_22_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-14; Ambient Temp: 21.3; Tissue Temp: 21.5

1 cm space from Body, Rear, Bluetooth BDR 1M Ch. 39, Ant Internal

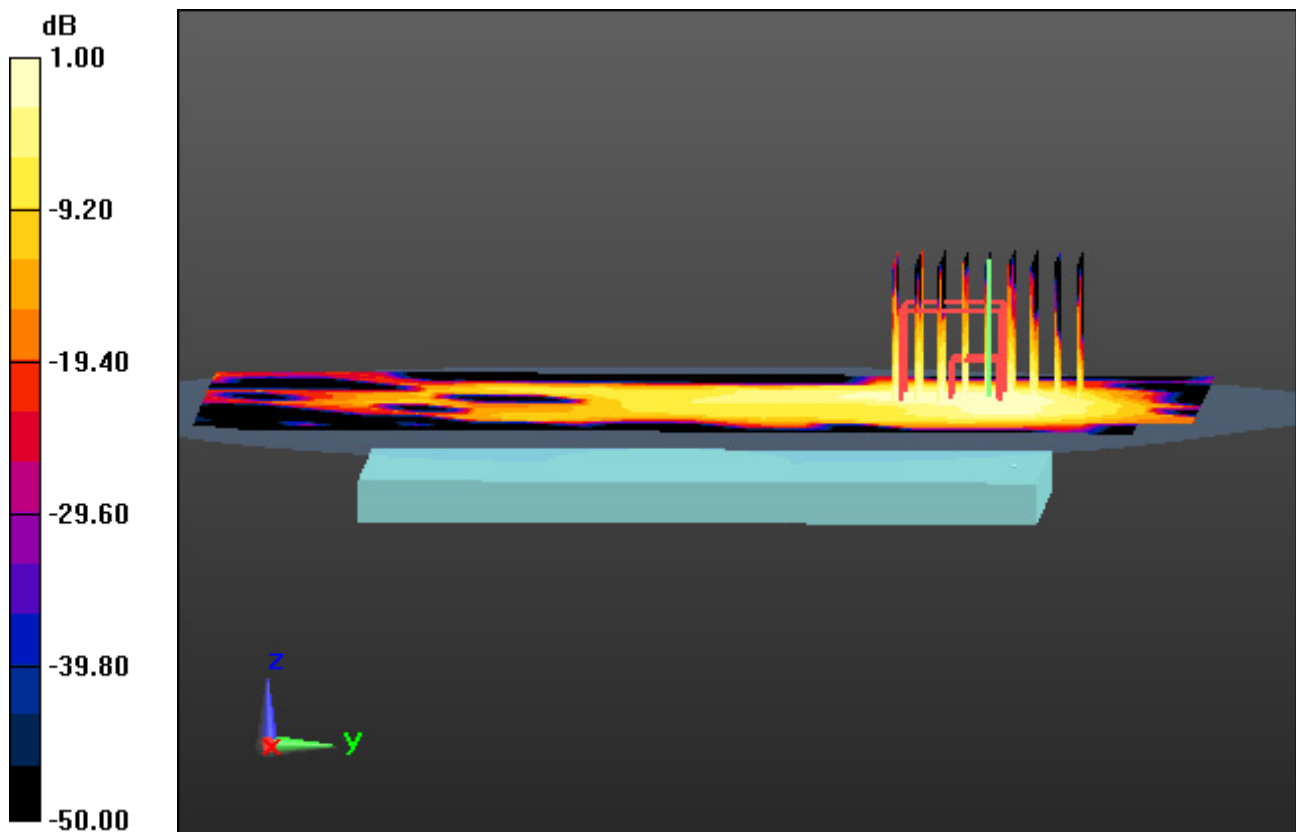
Area Scan (12x19x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

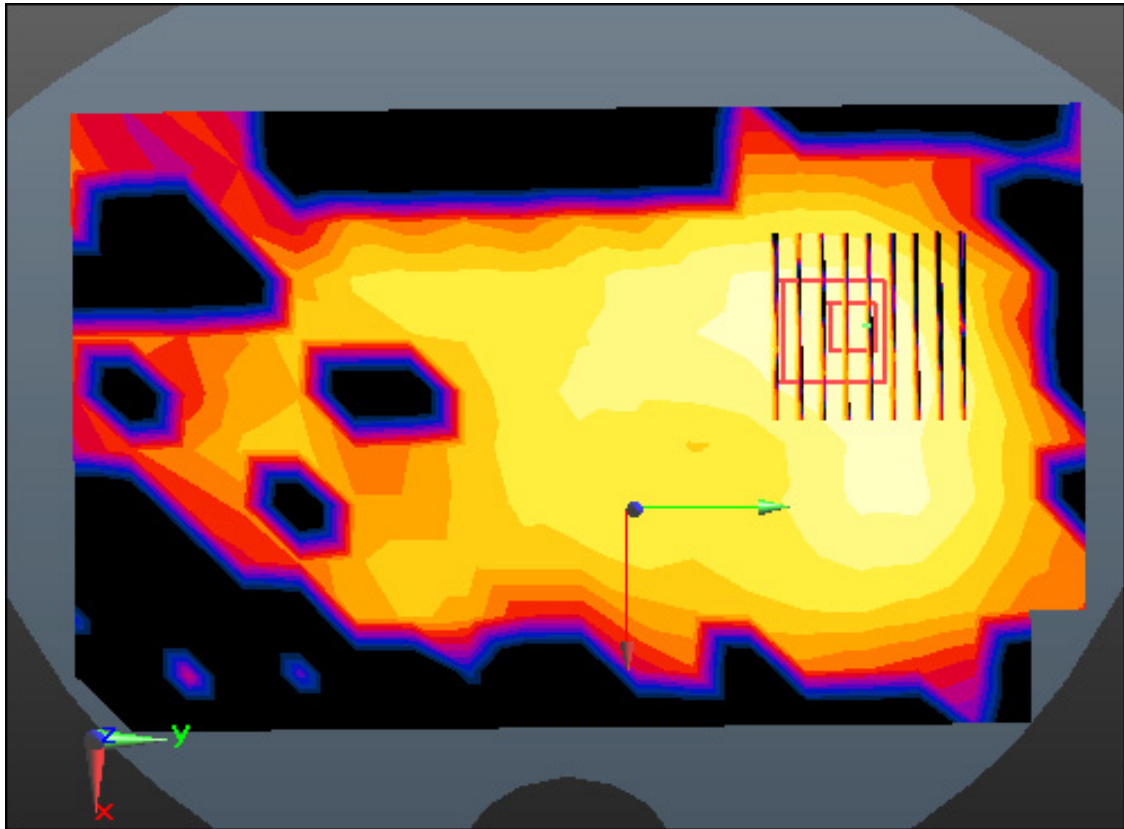
Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0710 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.013 W/kg





Enlarged Plot for A16

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, GSM 850_4 Tx (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 54.95$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-20; Ambient Temp: 20.8; Tissue Temp: 21.5

1cm space from Body, Right, GSM850 GPRS 4Tx Ch. 190, Ant Internal

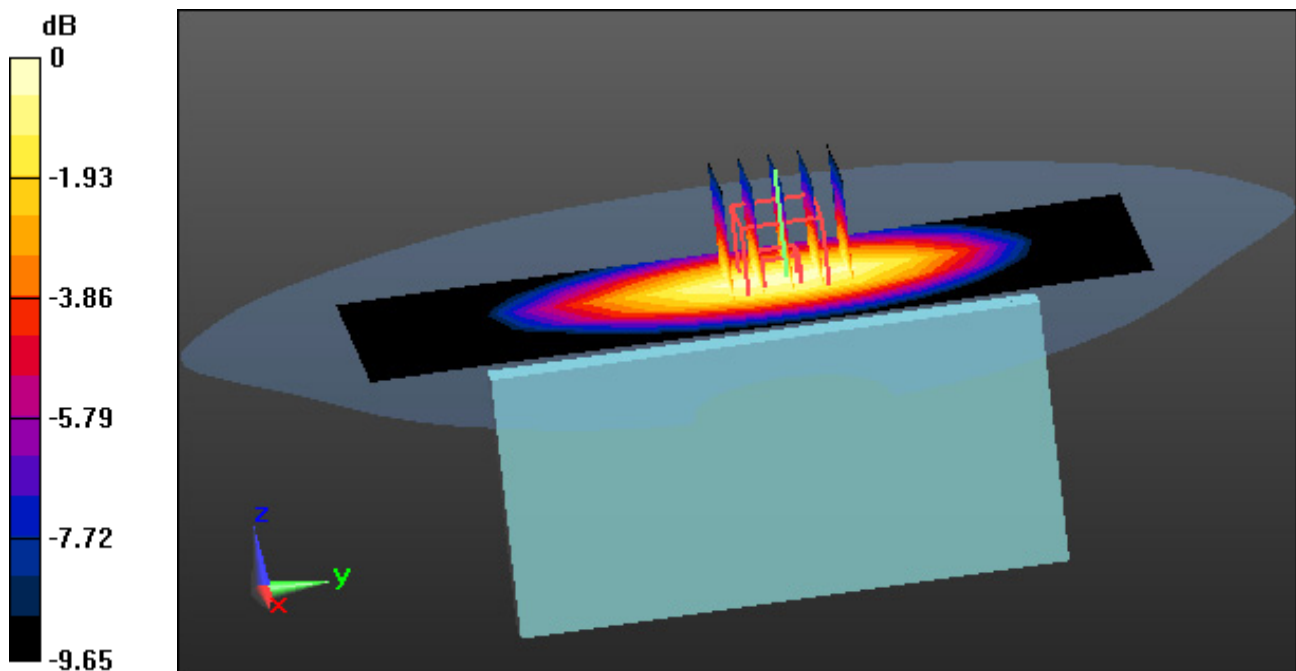
Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm

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

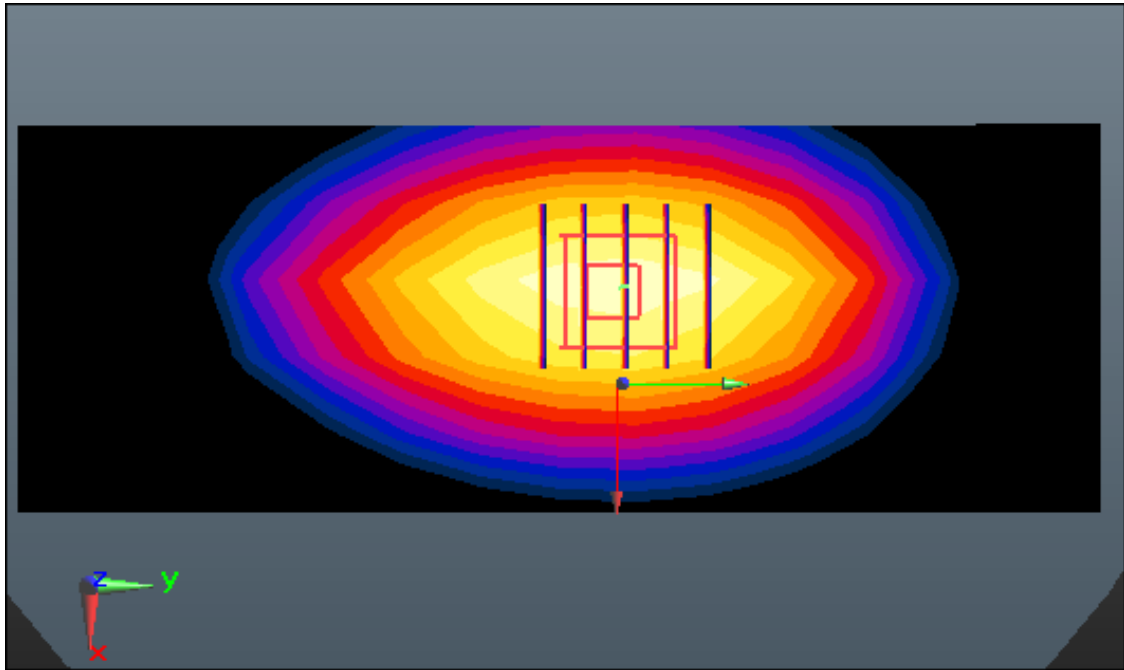
Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.491 W/kg



0 dB = 0.822 W/kg



Enlarged Plot for A17

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.973 \text{ S/m}$; $\epsilon_r = 54.949$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(6.14, 6.14, 6.14); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin middle_2013_09_24; Type: QD000P40CD; Serial: 1782

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-22; Ambient Temp: 21.0; Tissue Temp: 21.3

1cm space from Body, Right, WCDMA850 Ch. 4183, Ant Internal

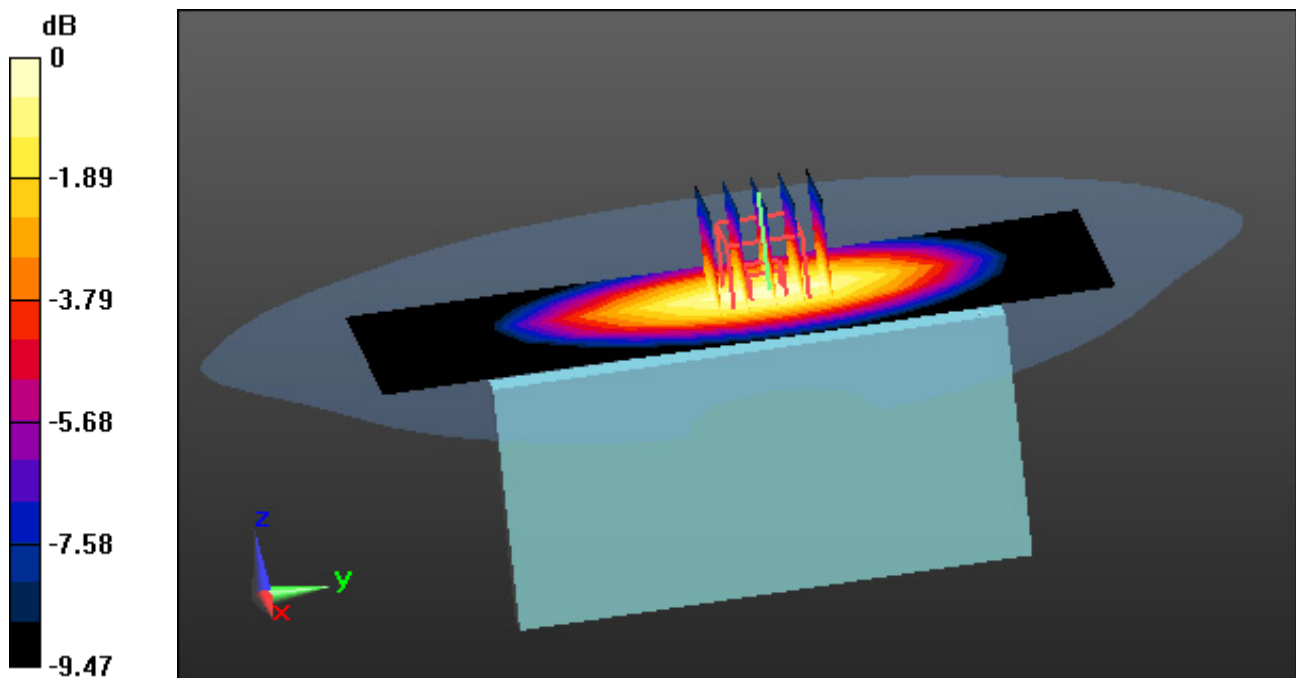
Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

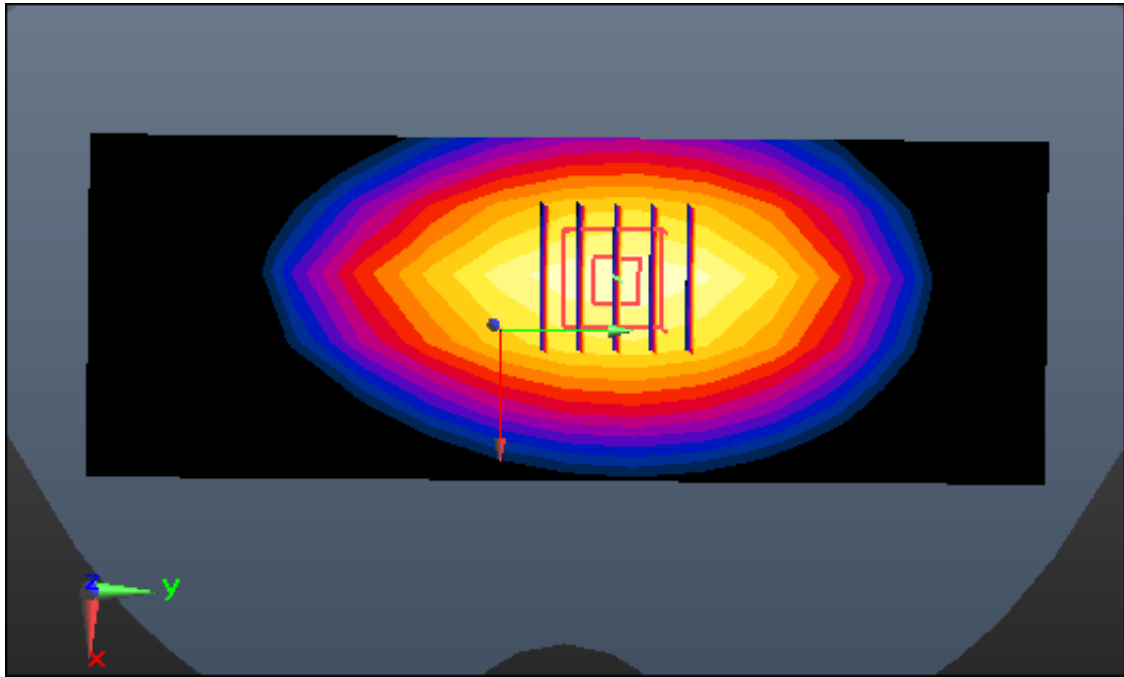
Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.661 W/kg



0 dB = 1.10 W/kg



Enlarged Plot for A18

DT&C Co., Ltd.

DUT: LM-X320EMW; Type: Bar

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.553$ S/m; $\epsilon_r = 52.286$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.81, 4.81, 4.81); Calibrated: 3/28/2019; Electronics: DAE4 Sn1335

Sensor-Surface: 3mm (Mechanical Surface Detection)

Phantom: SAM-twin right_2013_09_24; Type: QD000P40CD; Serial: TP:1783

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Test Date: 2019-05-23; Ambient Temp: 20.9; Tissue Temp: 21.2

1cm space from Body, Left, WCDMA1900 Ch. 9538, Ant Internal

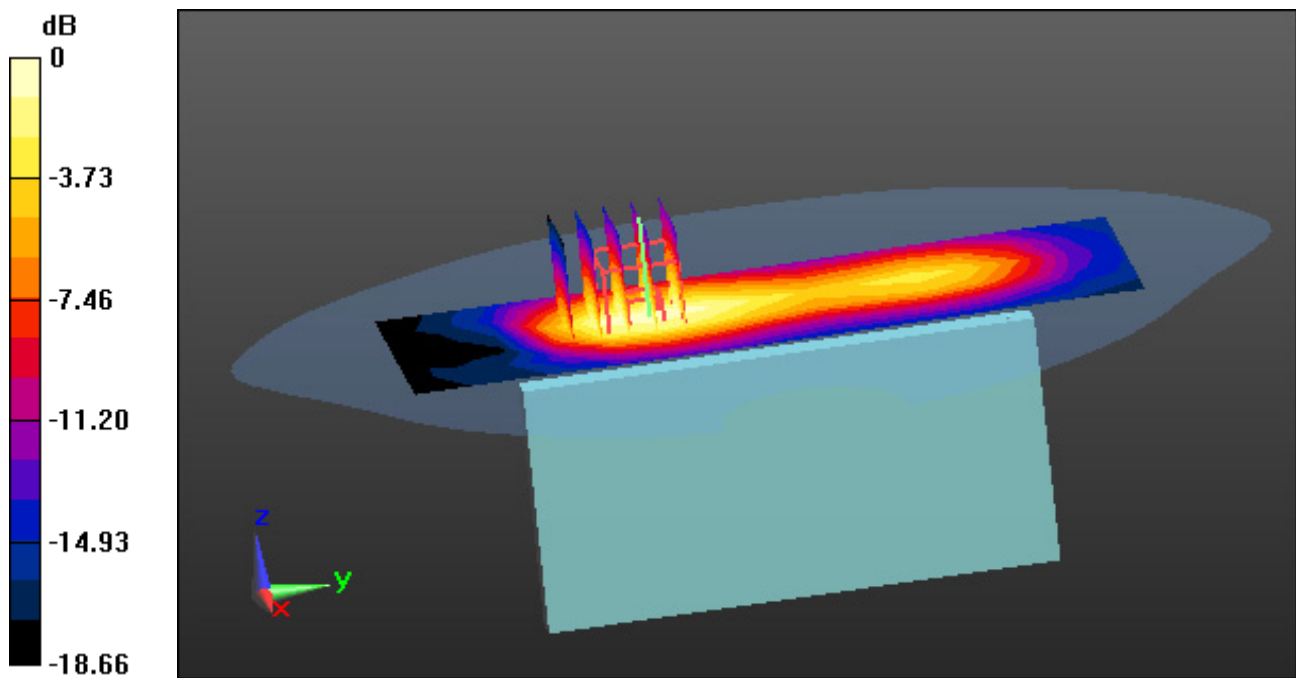
Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm

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

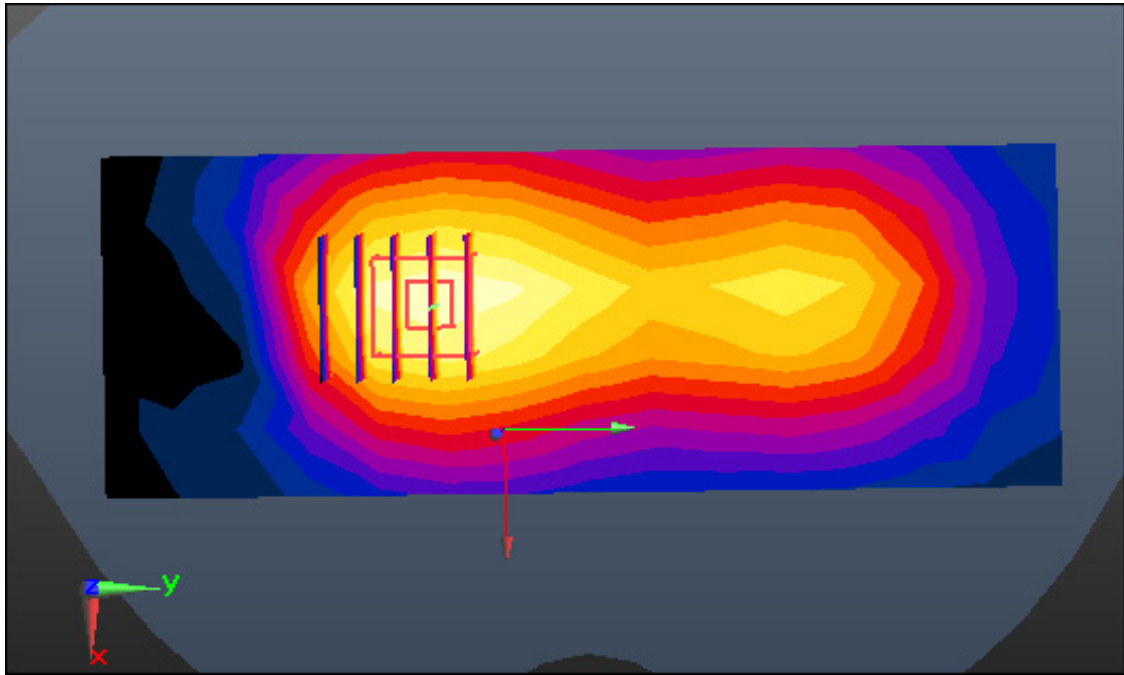
Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.612 W/kg



0 dB = 1.24 W/kg



Enlarged Plot for A19